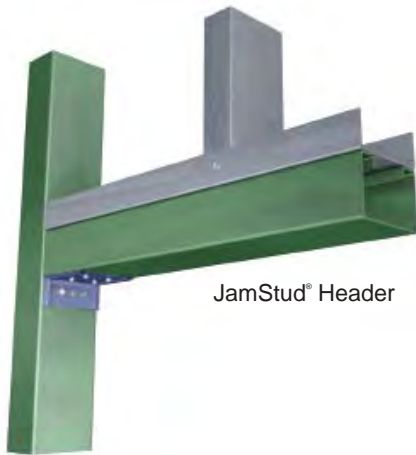
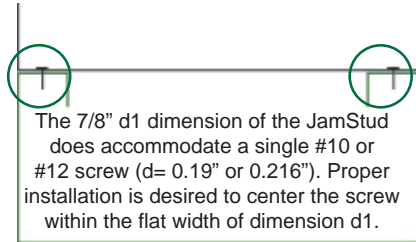


JAMSTUD® HEADER/SILL ASSEMBLY VALUE



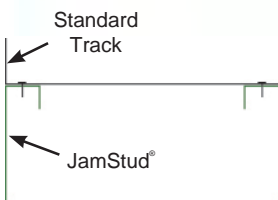
JamStud® Header

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.



JamStud® @ Sill

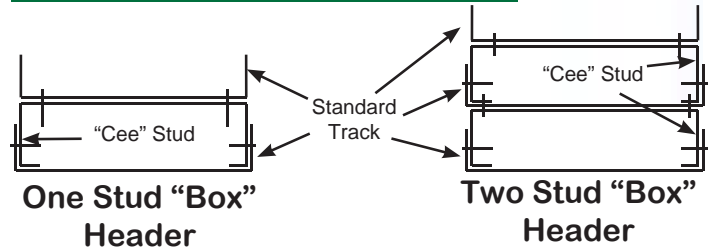
JAMSTUD® HEADER



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

JamStud Header

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. See TSN's *Light Steel Framing Connections Catalog* for allowable load data.

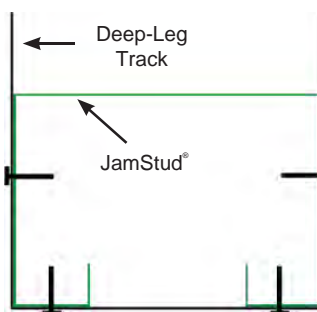


HIGH-WIND-LOAD HEADERS

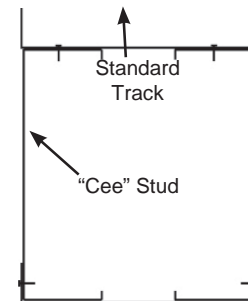
In high wind and axial load bearing wall applications, JamStud® may be placed inside of a deep-leg track to provide a strong labor-efficient alternative to four-piece "Box" headers. While the amount of fasteners remains consistent, use of JamStud® reduces material handling by half to streamline the installation 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.



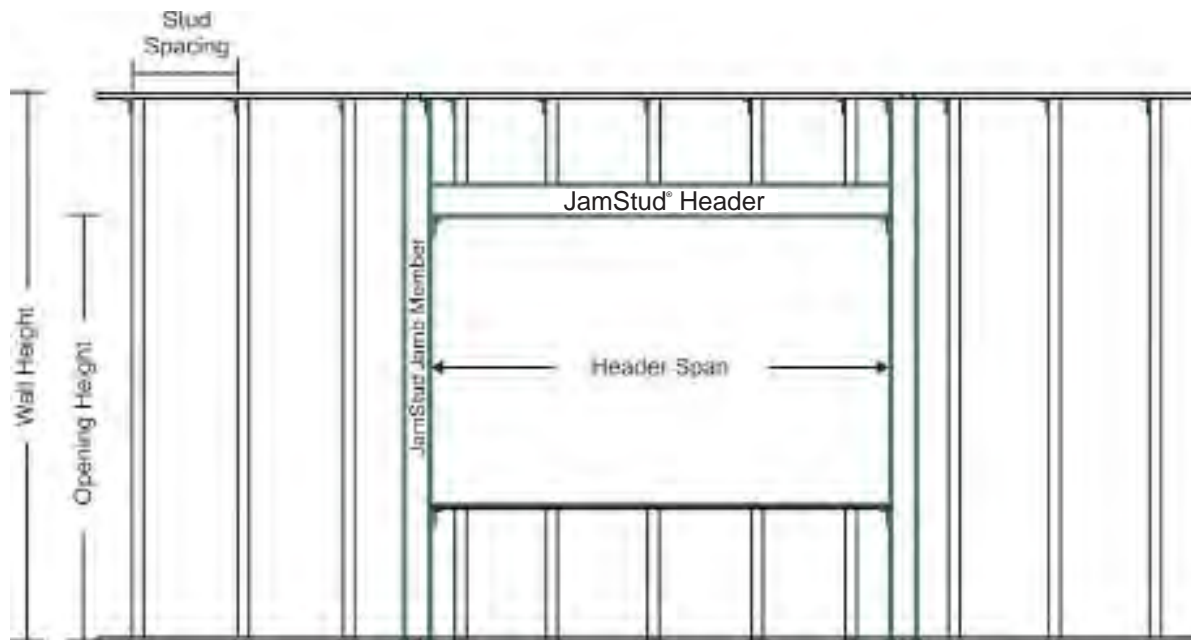
JAMSTUD® 2-PIECE ASSEMBLY



4-PIECE "BOX" ASSEMBLY



DESIGNING JAMSTUD®



1. BASIS FOR TABLES:

The JamStud® allowable curtain wall header span tables in this catalog cover the following basic load combination for the Allowable Stress Design (ASD) Method (IBC2006 and ASCE 7-05):

- $D + W_{c\&c}$ (Strength determination)

Where $W_{c\&c}$ is the Component and Cladding wind load. A sheathing dead load (D) of 12 psf acting vertically on the header is assumed in the tables.

For the deflection determination, *IBC 2003*, *IBC2006-Sec. 1604.3* and *AISI-Wall Stud Design Standard 2004, Sec. B1* allow for a reduction factor of 0.7 on the Component and Cladding wind load ($0.7W_{c\&c}$).

The "JamStud® - Allowable Header Span" tables are based on the following assumptions:

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

The Input for the tables are: the JamStud® section, the wall height (ft.), the opening height (ft.) design wind pressure ($W_{c\&c}$, 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, deflection or strength ("f" denotes strength, nothing denotes deflection).

2. DESIGN EXAMPLE

Service (un-factored) Loads:

- Wind Pressure (C&C) = 30 psf
- Wall Width = 6.0"
- Wall Height = 13.0 ft.
- Header Span = 9.0 ft.
- Opening Height = 10.0 ft.
- Specified Deflection Limit = L/360

3. DESIGNING JAMSTUD®

Use the Table:

Go to the "JamStud® - Allowable Header Span" table with a 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 9.0 ft. header span are 600JS250-54 (allowable span = 9' 2") and 600JS350-43 (allowable span = 9' 5").

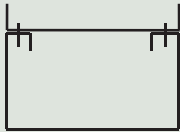
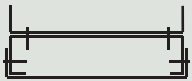
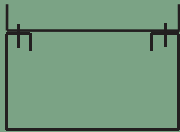

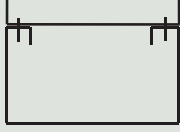
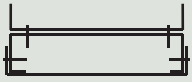
Conclusion:

The second option, 600JS350-43, is a lighter section with less mil thickness. Use a 600JS350-43 (with design thickness = 0.0451" and Fy = 50 ksi).

Important Note:

When ordering the 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 = 9.5' Opening Height = 10.0' Deflection Limit = L/360	800S162-54	Single 800JS250-68		(1) Stud 800S162-54 + (1) Track 800T125-54, attached at 24" o.c. max. horizontally	

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

Important Notes

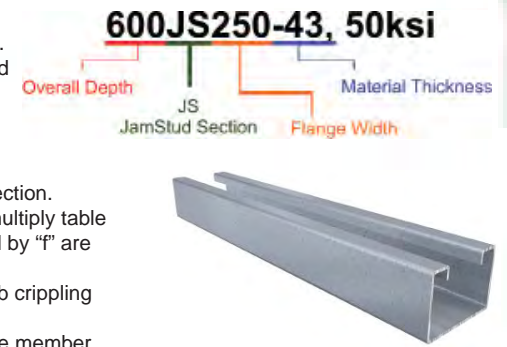
1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
3. A load factor of 0.7 for lateral wind pressure is used for deflection determination as per IBC 2006, Sec. 1604.3 and AISI-Wall Stud Design Std. 2004, Sec. B1 (Except for 5psf lateral pressure where 1.0 load factor is used.)
4. "f" denotes limiting header span is controlled by strength. All other spans are controlled by deflection.
5. If wind reduction factor for deflection determination is not allowed by a specific building code, multiply table values not denoted by "f" by 85% to calculate the proper JS header span. Table values denoted by "f" are controlled by strength and should not be reduced.
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.



JamStud Member	Wall Ht. (ft)	Opening Height (ft)	WIND PRESSURE (PSF) AND DEFLECTION LIMITS																		
			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
362JS250-33, 50ksi	9	6	9' 6" f	8' 5"	7' 4"	7' 9" f	7' 4"	6' 2"	7' 3" f	7' 3" f	6' 2"	6' 10" f	6' 10" f	6' 2"	6' 5" f	6' 5" f	6' 2"	5' 11" f	5' 11" f	5' 10"	
		8	13' 5" f	12' 2"	10' 7"	9' 9" f	9' 6"	8' 3"	8' 11" f	8' 9"	7' 8"	8' 3" f	8' 3" f	7' 3"	7' 10" f	7' 10" f	6' 11"	7' 2" f	7' 2" f	6' 5"	
	11	8	9' 5" f	8' 5"	7' 4"	7' 8" f	7' 4"	6' 2"	7' 2" f	7' 2" f	6' 2"	6' 9" f	6' 9" f	6' 2"	6' 5" f	6' 5" f	6' 2"	5' 11" f	5' 11" f	5' 10"	
		10	13' 0" f	12' 2"	10' 7"	9' 8" f	9' 5"	8' 3"	8' 10" f	8' 9"	7' 8"	8' 3" f	8' 3" f	7' 3"	7' 10" f	7' 10" f	6' 11"	7' 2" f	7' 2" f	6' 5"	
	13	8	7' 8" f	7' 1"	6' 2"	6' 6" f	6' 2"	5' 3"	6' 1" f	6' 1" f	5' 3"	5' 10" f	5' 10" f	5' 3"	5' 6" f	5' 6" f	5' 3"	5' 1" f	5' 1" f	5' 1" f	
		10	9' 4" f	8' 5"	7' 4"	7' 8" f	7' 4"	6' 2"	7' 2" f	7' 2" f	6' 2"	6' 9" f	6' 9" f	6' 2"	6' 5" f	6' 5" f	6' 2"	5' 11" f	5' 11" f	5' 10"	
	15	12	12' 10" f	12' 2"	10' 7"	9' 8" f	9' 5"	8' 3"	8' 10" f	8' 9"	7' 8"	8' 3" f	8' 3" f	7' 3"	7' 10" f	7' 10" f	6' 11"	7' 2" f	7' 2" f	6' 5"	
		8	6' 7" f	6' 4"	5' 6"	5' 9" f	5' 6"	4' 8"	5' 5" f	5' 5" f	4' 8"	5' 2" f	5' 2" f	4' 8"	4' 11" f	4' 11" f	4' 8"	4' 7" f	4' 7" f	4' 7" f	
	362JS250-43, 50ksi	9	6	11' 7"	9' 2"	8' 0"	9' 2"	8' 0"	6' 9"	8' 8" f	8' 0"	6' 9"	8' 1" f	8' 0"	6' 9"	7' 8" f	7' 8" f	6' 9"	7' 0" f	7' 0" f	6' 4"
			8	15' 11" f	13' 3"	11' 7"	11' 5" f	10' 5"	9' 0"	10' 4" f	9' 7"	8' 4"	9' 7" f	9' 0"	7' 10"	9' 0" f	8' 7"	7' 6"	8' 2" f	7' 11"	6' 11"
		11	8	11' 6" f	9' 2"	8' 0"	9' 2" f	8' 0"	6' 9"	8' 6" f	8' 0"	6' 9"	7' 11" f	7' 11" f	6' 9"	7' 7" f	7' 7" f	6' 9"	6' 11" f	6' 11" f	6' 4"
			10	15' 6" f	13' 3"	11' 7"	11' 1" f	10' 3"	9' 0"	10' 2" f	9' 6"	8' 4"	9' 6" f	9' 0"	7' 10"	8' 11" f	8' 7"	7' 6"	8' 2" f	7' 11"	6' 11"
13		8	9' 5" f	7' 9"	6' 9"	7' 9" f	6' 9"	5' 8"	7' 4" f	6' 9"	5' 8"	6' 11" f	6' 9"	5' 8"	6' 7" f	6' 7" f	5' 8"	6' 1" f	6' 1" f	5' 8"	
		10	11' 4" f	9' 2"	8' 0"	9' 1" f	8' 0"	6' 9"	8' 5" f	8' 0"	6' 9"	7' 11" f	7' 11" f	6' 9"	7' 7" f	7' 7" f	6' 9"	6' 11" f	6' 11" f	6' 4"	
15		12	15' 1" f	13' 3"	11' 7"	11' 1" f	10' 3"	9' 0"	10' 2" f	9' 6"	8' 4"	9' 6" f	9' 0"	7' 10"	8' 11" f	8' 7"	7' 6"	8' 2" f	7' 11"	6' 11"	
		8	8' 2" f	6' 11"	6' 0"	6' 11" f	6' 0"	5' 1"	6' 6" f	6' 0"	5' 1"	6' 2" f	6' 0"	5' 1"	5' 11" f	5' 11" f	5' 1"	5' 5" f	5' 5" f	5' 1"	
362JS250-54, 50ksi		9	6	12' 5"	9' 10"	8' 7"	9' 10"	8' 7"	7' 3"	9' 8" f	8' 7"	7' 3"	9' 1" f	8' 7"	7' 3"	8' 6" f	8' 6" f	7' 3"	7' 9" f	7' 9" f	6' 10"
			8	17' 10" f	14' 3"	12' 5"	12' 8"	11' 2"	9' 8"	11' 6" f	10' 3"	8' 11"	10' 7" f	9' 8"	8' 5"	9' 11" f	9' 2"	8' 0"	8' 11" f	8' 6"	7' 5"
		11	8	12' 5"	9' 10"	8' 7"	9' 10"	8' 7"	7' 3"	9' 5" f	8' 7"	7' 3"	8' 10" f	8' 7"	7' 3"	8' 4" f	8' 4" f	7' 3"	7' 8" f	7' 8" f	6' 10"
			10	17' 4" f	14' 3"	12' 5"	12' 3" f	10' 11"	9' 7"	11' 2" f	10' 2"	8' 10"	10' 4" f	9' 7"	8' 4"	9' 9" f	9' 2"	8' 0"	8' 11" f	8' 6"	7' 5"
	13	8	10' 6"	8' 4"	7' 3"	8' 4"	7' 3"	6' 1"	8' 2" f	7' 3"	6' 1"	7' 8" f	7' 3"	6' 1"	7' 4" f	7' 3"	6' 1"	6' 9" f	6' 9" f	6' 1"	
		10	12' 5"	9' 10"	8' 7"	9' 10"	8' 7"	7' 3"	9' 4" f	8' 7"	7' 3"	8' 9" f	8' 7"	7' 3"	8' 4" f	8' 4" f	7' 3"	7' 8" f	7' 8" f	6' 10"	
	15	12	16' 10" f	14' 3"	12' 5"	12' 1" f	10' 11"	9' 7"	11' 1" f	10' 2"	8' 10"	10' 4" f	9' 7"	8' 4"	9' 9" f	9' 1"	8' 0"	8' 11" f	8' 6"	7' 5"	
		8	9' 2" f	7' 5"	6' 6"	7' 5" f	6' 6"	5' 6"	7' 3" f	6' 6"	5' 6"	6' 11" f	6' 6"	5' 6"	6' 7" f	6' 6"	5' 6"	6' 1" f	6' 1" f	5' 6"	
	362JS250-68, 50ksi	9	6	13' 4"	10' 7"	9' 3"	10' 7"	9' 3"	7' 10"	10' 7" f	9' 3"	7' 10"	10' 3" f	9' 3"	7' 10"	9' 8" f	9' 3"	7' 10"	8' 9" f	8' 6"	7' 3"
			8	19' 4"	15' 4"	13' 4"	13' 6"	11' 11"	10' 3"	12' 4"	10' 11"	9' 5"	11' 7" f	10' 3"	8' 11"	10' 11"	9' 9"	8' 5"	9' 11" f	9' 0"	7' 10"
		11	8	13' 4"	10' 7"	9' 3"	10' 7"	9' 3"	7' 10"	10' 7" f	9' 3"	7' 10"	9' 10" f	9' 3"	7' 10"	9' 4" f	9' 1"	7' 10"	8' 6" f	8' 4"	7' 3"
			10	19' 4"	15' 4"	13' 4"	13' 0"	11' 7"	10' 1"	12' 0"	10' 9"	9' 5"	11' 3" f	10' 1"	8' 10"	10' 9" f	9' 8"	8' 5"	9' 9" f	8' 11"	7' 10"
13		8	11' 3"	8' 11"	7' 10"	8' 11"	7' 10"	6' 7"	8' 11" f	7' 10"	6' 7"	8' 7" f	7' 10"	6' 7"	8' 2" f	7' 10"	6' 7"	7' 6" f	7' 6" f	6' 7"	
		10	13' 4"	10' 7"	9' 3"	10' 7"	9' 3"	7' 10"	10' 5" f	9' 3"	7' 10"	9' 9" f	9' 3"	7' 10"	9' 3" f	9' 0"	7' 10"	8' 6" f	8' 4"	7' 3"	
15		12	18' 11" f	15' 4"	13' 4"	12' 10"	11' 6"	10' 1"	11' 11"	10' 9"	9' 5"	11' 3" f	10' 1"	8' 10"	10' 9" f	9' 8"	8' 5"	9' 9" f	8' 11"	7' 10"	
		8	10' 1"	8' 0"	7' 0"	8' 0"	7' 0"	5' 10"	8' 0"	7' 0"	5' 10"	7' 9" f	7' 0"	5' 10"	7' 4" f	7' 0"	5' 10"	6' 9" f	6' 9" f	5' 10"	
15		10	11' 3"	8' 11"	7' 10"	8' 11"	7' 10"	6' 7"	8' 11" f	7' 10"	6' 7"	8' 7" f	7' 10"	6' 7"	8' 2" f	7' 10"	6' 7"	7' 6" f	7' 6" f	6' 7"	
		12	13' 4"	10' 7"	9' 3"	10' 7"	9' 3"	7' 10"	10' 5" f	9' 3"	7' 10"	9' 9" f	9' 3"	7' 10"	9' 3" f	9' 0"	7' 10"	8' 6" f	8' 4"	7' 3"	

Important Notes

1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
3. A load factor of 0.7 for lateral wind pressure is used for deflection determination as per IBC 2006, Sec. 1604.3 and AISI-Wall Stud Design Std. 2004, Sec. B1 (Except for 5psf lateral pressure where 1.0 load factor is used.)
4. "f" denotes limiting header span is controlled by strength. All other spans are controlled by deflection.
5. If wind reduction factor for deflection determination is not allowed by a specific building code, multiply table values not denoted by "f" by 85% to calculate the proper JS header span. Table values denoted by "f" are controlled by strength and should not be reduced.
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.



JamStud Member	Wall Ht. (ft)	Opening Height (ft)	WIND PRESSURE (PSF) AND DEFLECTION LIMITS																		
			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
362JS250-97, 50ksi	9	6	14' 11"	11' 10"	10' 4"	11' 10"	10' 4"	8' 8"	11' 10"	10' 4"	8' 8"	11' 10"	10' 4"	8' 8"	11' 8"	10' 3"	8' 8"	10' 8"	9' 5"	8' 0"	
		8	21' 6"	17' 1"	14' 11"	14' 11"	13' 2"	11' 3"	13' 8"	12' 1"	10' 4"	12' 9"	11' 3"	9' 9"	12' 1"	10' 8"	9' 3"	11' 1"	9' 10"	8' 6"	
	11	8	14' 11"	11' 10"	10' 4"	11' 10"	10' 4"	8' 8"	11' 10"	10' 4"	8' 8"	11' 10"	10' 4"	8' 8"	11' 3"	9' 11"	8' 7"	10' 4" f	9' 2"	7' 11"	
		10	21' 6"	17' 1"	14' 11"	14' 4"	12' 9"	11' 0"	13' 2"	11' 9"	10' 2"	12' 4"	11' 0"	9' 8"	11' 9"	10' 6"	9' 2"	10' 10"	9' 9"	8' 6"	
	13	8	12' 7"	10' 0"	8' 8"	10' 0"	8' 8"	7' 4"	10' 0"	8' 8"	7' 4"	10' 0"	8' 8"	7' 4"	9' 11" f	8' 8"	7' 4"	9' 2" f	8' 7"	7' 4"	
		10	14' 11"	11' 10"	10' 4"	11' 10"	10' 4"	8' 8"	11' 10"	10' 4"	8' 8"	11' 7"	10' 4"	8' 8"	11' 0"	9' 10"	8' 7"	10' 2" f	9' 1"	7' 11"	
	15	12	21' 5"	17' 1"	14' 11"	14' 0"	12' 7"	11' 0"	12' 11"	11' 8"	10' 2"	12' 3"	11' 0"	9' 8"	11' 8"	10' 6"	9' 2"	10' 10"	9' 9"	8' 6"	
		8	11' 3"	8' 11"	7' 9"	8' 11"	7' 9"	6' 7"	8' 11"	7' 9"	6' 7"	8' 11"	7' 9"	6' 7"	8' 11" f	7' 9"	6' 7"	8' 3" f	7' 9"	6' 7"	
	15	10	12' 7"	10' 0"	8' 8"	10' 0"	8' 8"	7' 4"	10' 0"	8' 8"	7' 4"	10' 0"	8' 8"	7' 4"	9' 10" f	8' 8"	7' 4"	9' 1" f	8' 7"	7' 4"	
		12	14' 11"	11' 10"	10' 4"	11' 10"	10' 4"	8' 8"	11' 10"	10' 4"	8' 8"	11' 7"	10' 4"	8' 8"	11' 0"	9' 10"	8' 7"	10' 2" f	9' 1"	7' 11"	
	362JS350-68, 50ksi	9	6	17' 6"	13' 11"	12' 2"	13' 1" f	12' 0"	10' 3"	11' 11" f	11' 2"	9' 6"	11' 2" f	10' 5"	8' 10"	10' 5" f	9' 10"	8' 5"	9' 4" f	9' 0"	7' 8"
			8	22' 2"	17' 7"	15' 10"	14' 3"	12' 7"	10' 10"	13' 1"	11' 6"	9' 11"	12' 2"	10' 10"	9' 4"	11' 6"	10' 3"	8' 10"	10' 4" f	9' 5"	8' 2"
11		8	17' 0" f	13' 11"	12' 2"	12' 8" f	11' 9"	10' 1"	11' 6" f	10' 9"	9' 3"	10' 8" f	10' 1"	8' 8"	10' 0" f	9' 6"	8' 3"	9' 0" f	8' 9"	7' 7"	
		10	20' 9"	17' 2"	15' 2"	13' 9"	12' 2"	10' 7"	12' 7"	11' 3"	9' 10"	11' 10"	10' 7"	9' 3"	11' 2" f	10' 1"	8' 10"	10' 1" f	9' 4"	8' 2"	
13		8	14' 4" f	11' 9"	10' 3"	11' 0" f	10' 3"	8' 8"	10' 1" f	10' 1" f	8' 8"	9' 5" f	9' 5" f	8' 2"	8' 11" f	8' 11" f	7' 9"	8' 1" f	8' 1" f	7' 1"	
		10	16' 8" f	13' 11"	12' 2"	12' 3" f	11' 6"	9' 11"	11' 3" f	10' 7"	9' 2"	10' 5" f	9' 11"	8' 8"	9' 10" f	9' 6"	8' 3"	9' 0" f	8' 9"	7' 7"	
15		12	20' 6"	16' 7"	14' 9"	13' 6"	12' 1"	10' 7"	12' 6"	11' 3"	9' 10"	11' 9"	10' 7"	9' 3"	11' 2" f	10' 1"	8' 10"	10' 1" f	9' 5"	8' 2"	
		8	12' 6" f	10' 6"	9' 2"	9' 11" f	9' 2"	7' 8"	9' 2" f	9' 2" f	7' 8"	8' 7" f	8' 7" f	7' 8"	8' 1" f	8' 1" f	7' 4"	7' 4" f	7' 4" f	6' 9"	
15		10	14' 1" f	11' 9"	10' 3"	10' 10" f	10' 3"	8' 8"	10' 0" f	10' 0" f	8' 8"	9' 4" f	9' 4" f	8' 2"	8' 10" f	8' 10" f	7' 9"	8' 1" f	8' 1" f	7' 1"	
		12	16' 4" f	13' 11"	12' 2"	12' 2" f	11' 5"	9' 11"	11' 2" f	10' 7"	9' 2"	10' 5" f	9' 11"	8' 8"	9' 10" f	9' 6"	8' 3"	9' 0" f	8' 9"	7' 7"	
362JS350-97, 50ksi		9	6	19' 7"	15' 6"	13' 7"	15' 6"	13' 7"	11' 5"	14' 2"	12' 5"	10' 9"	13' 2"	11' 9"	10' 0"	12' 5"	11' 1"	9' 5"	11' 5" f	10' 2"	8' 8"
			8	25' 2"	20' 0"	17' 6"	15' 11"	14' 2"	12' 1"	14' 8"	13' 0"	11' 1"	13' 9"	12' 1"	10' 5"	13' 0"	11' 6"	9' 11"	11' 11"	10' 6"	9' 1"
	11	8	19' 7"	15' 6"	13' 7"	15' 0"	13' 3"	11' 3"	13' 8"	12' 1"	10' 4"	12' 9"	11' 3"	9' 8"	12' 1" f	10' 8"	9' 2"	10' 10" f	9' 10"	8' 6"	
		10	23' 7"	19' 4"	17' 1"	15' 5"	13' 8"	11' 9"	14' 1"	12' 7"	10' 11"	13' 3"	11' 9"	10' 3"	12' 7"	11' 2"	9' 9"	11' 7"	10' 4"	9' 1"	
	13	8	16' 6"	13' 1"	11' 5"	13' 1"	11' 5"	9' 8"	12' 3" f	11' 5"	9' 8"	11' 5" f	10' 8"	9' 1"	10' 8" f	10' 1"	8' 8"	9' 8" f	9' 3"	7' 11"	
		10	19' 7"	15' 6"	13' 7"	14' 6"	12' 10"	11' 1"	13' 4"	11' 10"	10' 3"	12' 5"	11' 1"	9' 7"	11' 8" f	10' 6"	9' 2"	10' 7" f	9' 9"	8' 5"	
	15	12	23' 1"	18' 8"	16' 6"	15' 0"	13' 5"	11' 8"	13' 10"	12' 5"	10' 10"	13' 0"	11' 8"	10' 3"	12' 5"	11' 2"	9' 9"	11' 6"	10' 4"	9' 1"	
		8	14' 9"	11' 8"	10' 3"	11' 8"	10' 3"	8' 7"	11' 0" f	10' 3"	8' 7"	10' 4" f	10' 1"	8' 7"	9' 9" f	9' 7"	8' 3"	8' 10" f	8' 9"	7' 7"	
	15	10	16' 6"	13' 1"	11' 5"	13' 0" f	11' 5"	9' 8"	12' 0" f	11' 3"	9' 8"	11' 2" f	10' 6"	9' 1"	10' 6" f	10' 0"	8' 8"	9' 7" f	9' 2"	7' 11"	
		12	19' 7"	15' 6"	13' 7"	14' 3"	12' 8"	11' 1"	13' 1"	11' 9"	10' 3"	12' 4" f	11' 1"	9' 7"	11' 7" f	10' 6"	9' 2"	10' 7" f	9' 9"	8' 5"	
	362JS350-118, 50ksi	9	6	20' 10"	16' 6"	14' 5"	16' 6"	14' 5"	12' 2"	15' 1"	13' 2"	11' 5"	14' 0"	12' 3"	10' 7"	13' 2"	11' 9"	10' 0"	12' 0"	10' 9"	9' 2"
			8	26' 10"	21' 4"	18' 7"	16' 8"	15' 0"	12' 10"	15' 7"	13' 9"	11' 9"	14' 7"	12' 10"	11' 0"	13' 9"	12' 2"	10' 5"	12' 7"	11' 2"	9' 7"
11		8	20' 10"	16' 6"	14' 5"	15' 11"	14' 0"	12' 0"	14' 7"	12' 10"	11' 0"	13' 7"	12' 0"	10' 3"	12' 10"	11' 4"	9' 9"	11' 9"	10' 5"	8' 11"	
		10	25' 1"	19' 11"	18' 1"	16' 4"	14' 5"	12' 5"	14' 11"	13' 3"	11' 6"	14' 0"	12' 5"	10' 9"	13' 3"	11' 10"	10' 3"	12' 2"	10' 11"	9' 6"	
13		8	17' 7"	13' 11"	12' 2"	13' 11"	12' 2"	10' 3"	13' 8" f	12' 1"	10' 3"	12' 9" f	11' 3"	9' 8"	12' 0" f	10' 8"	9' 2"	10' 10" f	9' 9"	8' 5"	
		10	20' 10"	16' 6"	14' 5"	15' 4"	13' 7"	11' 8"	14' 1"	12' 6"	10' 9"	13' 2"	11' 8"	10' 2"	12' 6"	11' 1"	9' 8"	11' 6"	10' 3"	8' 11"	
15		12	23' 11"	19' 9"	17' 6"	15' 10"	14' 1"	12' 4"	14' 7"	13' 1"	11' 5"	13' 9"	12' 4"	10' 9"	13' 1"	11' 9"	10' 3"	12' 1"	10' 11"	9' 6"	
		8	15' 8"	12' 5"	10' 10"	12' 5"	10' 10"	9' 2"	12' 4" f	10' 10"	9' 2"	11' 6" f	10' 9"	9' 2"	10' 11" f	10' 2"	8' 8"	9' 11" f	9' 4"	8' 0"	
15		10	17' 7"	13' 11"	12' 2"	13' 11"	12' 2"	10' 3"	13' 4" f	11' 10"	10' 3"	12' 5" f	11' 1"	9' 7"	11' 9" f	10' 6"	9' 1"	10' 8" f	9' 8"	8' 5"	
		12	20' 10"	16' 6"	14' 5"	15' 0"	13' 5"	11' 8"	13' 10"	12' 4"	10' 9"	13' 0"	11' 8"	10' 2"	12' 4"	11' 1"	9' 8"	11' 5"	10' 3"	8' 11"	

Important Notes

1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
3. A load factor of 0.7 for lateral wind pressure is used for deflection determination as per IBC 2006, Sec. 1604.3 and AISI-Wall Stud Design Std. 2004, Sec. B1 (Except for 5psf lateral pressure where 1.0 load factor is used.)
4. "f" denotes limiting header span is controlled by strength. All other spans are controlled by deflection.
5. If wind reduction factor for deflection determination is not allowed by a specific building code, multiply table values not denoted by "f" by 85% to calculate the proper JS header span. Table values denoted by "f" are controlled by strength and should not be reduced.
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.

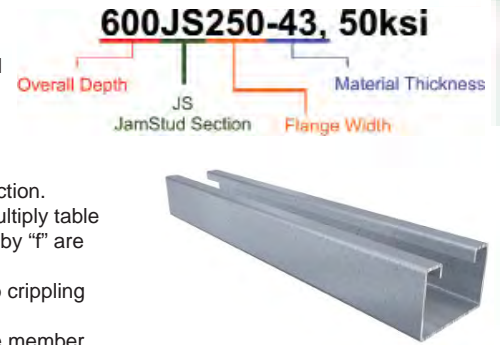
600JS250-43, 50ksi



JamStud Member	Wall Ht. (ft)	Opening Height (ft)	WIND PRESSURE (PSF) AND DEFLECTION LIMITS																		
			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
400JS250-33, 50ksi	9	6	9' 9" f	8' 6"	7' 5"	8' 1" f	7' 5"	6' 3"	7' 6" f	7' 5"	6' 3"	7' 1" f	7' 1" f	6' 3"	6' 9" f	6' 9" f	6' 3"	6' 2" f	6' 2" f	6' 2" f	
		8	13' 10" f	12' 4"	10' 9"	10' 2" f	10' 2" f	8' 10"	9' 3" f	9' 3" f	8' 2"	8' 8" f	8' 8" f	7' 8"	8' 2" f	8' 2" f	7' 4"	7' 6" f	7' 6" f	6' 9"	
	11	8	9' 7" f	8' 6"	7' 5"	7' 11" f	7' 5"	6' 3"	7' 5" f	7' 5" f	6' 3"	7' 0" f	7' 0" f	6' 3"	6' 8" f	6' 8" f	6' 3"	6' 2" f	6' 2" f	6' 2" f	
		10	13' 5" f	12' 4"	10' 9"	10' 0" f	10' 0" f	8' 9"	9' 3" f	9' 3" f	8' 2"	8' 8" f	8' 8" f	7' 8"	8' 2" f	8' 2" f	7' 4"	7' 6" f	7' 6" f	6' 9"	
	13	8	7' 10" f	7' 2"	6' 3"	6' 8" f	6' 3"	5' 3"	6' 4" f	6' 3"	5' 3"	6' 0" f	6' 0" f	5' 3"	5' 9" f	5' 9" f	5' 3"	5' 4" f	5' 4" f	5' 3"	
		10	9' 7" f	8' 6"	7' 5"	7' 11" f	7' 5"	6' 3"	7' 5" f	7' 5" f	6' 3"	7' 0" f	7' 0" f	6' 3"	6' 8" f	6' 8" f	6' 3"	6' 2" f	6' 2" f	6' 2" f	
	15	8	6' 9" f	6' 5"	5' 7"	5' 10" f	5' 7"	4' 9"	5' 7" f	5' 7" f	4' 9"	5' 4" f	5' 4" f	4' 9"	5' 1" f	5' 1" f	4' 9"	4' 9" f	4' 9" f	4' 9" f	
		10	7' 10" f	7' 2"	6' 3"	6' 8" f	6' 3"	5' 3"	6' 4" f	6' 3"	5' 3"	6' 0" f	6' 0" f	5' 3"	5' 9" f	5' 9" f	5' 3"	5' 4" f	5' 4" f	5' 3"	
	400JS250-43, 50ksi	9	6	11' 9" f	9' 3"	8' 1"	9' 3"	8' 1"	6' 10"	9' 0" f	8' 1"	6' 10"	8' 5" f	8' 1"	6' 10"	8' 0" f	8' 0" f	6' 10"	7' 3" f	7' 3" f	6' 9"
			8	16' 6" f	13' 5"	11' 9"	12' 0" f	11' 1"	9' 7"	10' 10" f	10' 3"	8' 10"	10' 1" f	9' 7"	8' 4"	9' 5" f	9' 1"	7' 11"	8' 6" f	8' 5" f	7' 4"
		11	8	11' 9" f	9' 3"	8' 1"	9' 3"	8' 1"	6' 10"	8' 9" f	8' 1"	6' 10"	8' 3" f	8' 1"	6' 10"	7' 10" f	7' 10" f	6' 10"	7' 3" f	7' 3" f	6' 9"
			10	16' 1" f	13' 5"	11' 9"	11' 7" f	10' 11"	9' 6"	10' 7" f	10' 1"	8' 10"	9' 11" f	9' 6"	8' 4"	9' 4" f	9' 1"	7' 11"	8' 6" f	8' 5" f	7' 4"
13		8	9' 7" f	7' 10"	6' 10"	7' 10"	6' 10"	5' 9"	7' 7" f	6' 10"	5' 9"	7' 2" f	6' 10"	5' 9"	6' 10" f	6' 10" f	5' 9"	6' 4" f	6' 4" f	5' 9"	
		10	11' 8" f	9' 3"	8' 1"	9' 3"	8' 1"	6' 10"	8' 9" f	8' 1"	6' 10"	8' 3" f	8' 1"	6' 10"	7' 10" f	7' 10" f	6' 10"	7' 3" f	7' 3" f	6' 9"	
15		8	8' 4" f	7' 0"	6' 1"	7' 0"	6' 1"	5' 2"	6' 9" f	6' 1"	5' 2"	6' 5" f	6' 1"	5' 2"	6' 1" f	6' 1" f	5' 2"	5' 8" f	5' 8" f	5' 2"	
		10	9' 7" f	7' 10"	6' 10"	7' 10"	6' 10"	5' 9"	7' 7" f	6' 10"	5' 9"	7' 2" f	6' 10"	5' 9"	6' 10" f	6' 10" f	5' 9"	6' 4" f	6' 4" f	5' 9"	
400JS250-54, 50ksi		9	6	12' 7" f	10' 0"	8' 9"	10' 0"	8' 9"	7' 4"	10' 0"	8' 9"	7' 4"	9' 5" f	8' 9"	7' 4"	8' 11" f	8' 9"	7' 4"	8' 1" f	8' 1" f	7' 4"
			8	18' 2" f	14' 5"	12' 7"	13' 4" f	12' 0"	10' 4"	12' 1" f	11' 0"	9' 6"	11' 1" f	10' 4"	8' 11"	10' 5" f	9' 9"	8' 6"	9' 4" f	9' 0" f	7' 10"
		11	8	12' 7" f	10' 0"	8' 9"	10' 0"	8' 9"	7' 4"	9' 9" f	8' 9"	7' 4"	9' 2" f	8' 9"	7' 4"	8' 8" f	8' 8" f	7' 4"	7' 11" f	7' 11" f	7' 3"
			10	18' 1" f	14' 5"	12' 7"	12' 10" f	11' 8"	10' 2"	11' 8" f	10' 9"	9' 5"	10' 10" f	10' 2"	8' 11"	10' 2" f	9' 8"	8' 6"	9' 3" f	9' 0" f	7' 10"
	13	8	10' 7" f	8' 5"	7' 4"	8' 5"	7' 4"	6' 2"	8' 5" f	7' 4"	6' 2"	8' 0" f	7' 4"	6' 2"	7' 7" f	7' 4"	6' 2"	7' 0" f	7' 0" f	6' 2"	
		10	12' 7" f	10' 0"	8' 9"	10' 0"	8' 9"	7' 4"	9' 8" f	8' 9"	7' 4"	9' 1" f	8' 9"	7' 4"	8' 8" f	8' 8" f	7' 4"	7' 11" f	7' 11" f	7' 3"	
	15	8	9' 4" f	7' 6"	6' 7"	7' 6"	6' 7"	5' 6"	7' 6" f	6' 7"	5' 6"	7' 2" f	6' 7"	5' 6"	6' 10" f	6' 7"	5' 6"	6' 4" f	6' 4" f	5' 6"	
		10	10' 7" f	8' 5"	7' 4"	8' 5"	7' 4"	6' 2"	8' 5" f	7' 4"	6' 2"	8' 0" f	7' 4"	6' 2"	7' 7" f	7' 4"	6' 2"	7' 0" f	7' 0" f	6' 2"	
	400JS250-68, 50ksi	9	6	13' 7" f	10' 9"	9' 5"	10' 9"	9' 5"	7' 11"	10' 9"	9' 5"	7' 11"	10' 8" f	9' 5"	7' 11"	10' 1" f	9' 5"	7' 11"	9' 2" f	9' 1" f	7' 10"
			8	19' 7" f	15' 6"	13' 7"	14' 6" f	12' 9"	11' 0"	13' 3" f	11' 9"	10' 1"	12' 5" f	11' 0"	9' 6"	11' 8" f	10' 5"	9' 0"	10' 5" f	9' 7" f	8' 4"
		11	8	13' 7" f	10' 9"	9' 5"	10' 9"	9' 5"	7' 11"	10' 9"	9' 5"	7' 11"	10' 3" f	9' 5"	7' 11"	9' 8" f	9' 5"	7' 11"	8' 10" f	8' 10" f	7' 8"
			10	19' 7" f	15' 6"	13' 7"	13' 11" f	12' 5"	10' 9"	12' 10" f	11' 5"	9' 11"	12' 0" f	10' 9"	9' 5"	11' 3" f	10' 3"	9' 0"	10' 2" f	9' 6" f	8' 4"
13		8	11' 5" f	9' 1"	7' 11"	9' 1"	7' 11"	6' 8"	9' 1" f	7' 11"	6' 8"	8' 11" f	7' 11"	6' 8"	8' 6" f	7' 11"	6' 8"	7' 10" f	7' 10" f	6' 8"	
		10	13' 7" f	10' 9"	9' 5"	10' 9"	9' 5"	7' 11"	10' 9" f	9' 5"	7' 11"	10' 2" f	9' 5"	7' 11"	9' 7" f	9' 5"	7' 11"	8' 10" f	8' 10" f	7' 8"	
15		8	10' 2" f	8' 1"	7' 1"	8' 1"	7' 1"	5' 11"	8' 1" f	7' 1"	5' 11"	8' 0" f	7' 1"	5' 11"	7' 8" f	7' 1"	5' 11"	7' 1" f	7' 1" f	5' 11"	
		10	11' 5" f	9' 1"	7' 11"	9' 1"	7' 11"	6' 8"	9' 1" f	7' 11"	6' 8"	8' 11" f	7' 11"	6' 8"	8' 6" f	7' 11"	6' 8"	7' 10" f	7' 10" f	6' 8"	
15		8	13' 7" f	10' 9"	9' 5"	10' 9"	9' 5"	7' 11"	10' 9" f	9' 5"	7' 11"	10' 2" f	9' 5"	7' 11"	9' 7" f	9' 5"	7' 11"	8' 10" f	8' 10" f	7' 8"	

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			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
400JS250-97, 50ksi	9	6	15' 1"	12' 0"	10' 5"	12' 0"	10' 5"	8' 10"	12' 0"	10' 5"	8' 10"	12' 0"	10' 5"	8' 10"	12' 0"	10' 5"	8' 10"	11' 4" f	10' 1"	8' 7"	
		8	21' 10"	17' 3"	15' 1"	15' 11"	14' 1"	12' 1"	14' 8"	12' 11"	11' 1"	13' 8"	12' 1"	10' 5"	12' 11"	11' 5"	9' 10"	11' 10"	10' 6"	9' 1"	
	11	8	15' 1"	12' 0"	10' 5"	12' 0"	10' 5"	8' 10"	12' 0"	10' 5"	8' 10"	12' 0"	10' 5"	8' 10"	11' 11" f	10' 5"	8' 10"	10' 10" f	9' 9"	8' 5"	
		10	21' 10"	17' 3"	15' 1"	15' 4"	13' 7"	11' 9"	14' 1"	12' 6"	10' 10"	13' 2"	11' 9"	10' 3"	12' 6"	11' 2"	9' 9"	11' 6"	10' 4"	9' 1"	
	13	8	12' 9"	10' 1"	8' 10"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	9' 6" f	8' 10"	7' 5"	
		10	15' 1"	12' 0"	10' 5"	12' 0"	10' 5"	8' 10"	12' 0"	10' 5"	8' 10"	12' 0"	10' 5"	8' 10"	11' 7" f	10' 5"	8' 10"	10' 7" f	9' 8"	8' 5"	
	15	12	21' 10"	17' 3"	15' 1"	14' 11"	13' 4"	11' 8"	13' 9"	12' 4"	10' 10"	13' 0"	11' 8"	10' 3"	12' 4"	11' 2"	9' 9"	11' 6"	10' 4"	9' 1"	
		8	11' 4"	9' 0"	7' 10"	9' 0"	7' 10"	6' 8"	9' 0"	7' 10"	6' 8"	9' 0"	7' 10"	6' 8"	9' 0"	7' 10"	6' 8"	8' 7" f	7' 10"	6' 8"	
	400JS350-43, 50ksi	9	6	13' 2" f	12' 2"	10' 7"	10' 4" f	10' 4" f	8' 11"	9' 6" f	9' 6" f	8' 9"	8' 10" f	8' 10" f	8' 2"	8' 4" f	8' 4" f	7' 9"	7' 7" f	7' 7" f	7' 1"
			8	17' 7" f	16' 1"	14' 6"	12' 5" f	11' 7"	10' 0"	11' 2" f	10' 8"	9' 2"	10' 3" f	10' 0"	8' 8"	9' 7" f	9' 6"	8' 3"	8' 8" f	8' 8" f	7' 8"
		11	8	12' 11" f	12' 2"	10' 7"	10' 0" f	10' 0" f	8' 11"	9' 3" f	9' 3" f	8' 7"	8' 7" f	8' 7" f	8' 0"	8' 2" f	8' 2" f	7' 8"	7' 5" f	7' 5" f	7' 0"
			10	17' 1" f	15' 9"	14' 0"	11' 11" f	11' 4"	9' 10"	10' 10" f	10' 6"	9' 2"	10' 1" f	9' 10"	8' 8"	9' 6" f	9' 5"	8' 3"	8' 8" f	8' 8" f	7' 8"
13		8	10' 8" f	10' 3"	8' 11"	8' 8" f	8' 8" f	7' 6"	8' 0" f	8' 0" f	7' 6"	7' 7" f	7' 7" f	7' 6"	7' 2" f	7' 2" f	7' 2" f	6' 7" f	6' 7" f	6' 7" f	
		10	12' 9" f	12' 2"	10' 7"	9' 11" f	9' 11" f	8' 11"	9' 2" f	9' 2" f	8' 6"	8' 7" f	8' 7" f	8' 0"	8' 2" f	8' 2" f	7' 8"	7' 5" f	7' 5" f	7' 1"	
15		12	16' 6" f	15' 4"	13' 8"	11' 10" f	11' 3"	9' 10"	10' 10" f	10' 6"	9' 2"	10' 1" f	9' 10"	8' 8"	9' 6" f	9' 5"	8' 3"	8' 8" f	8' 8" f	7' 8"	
		8	9' 3" f	9' 2"	8' 0"	7' 8" f	7' 8" f	6' 9"	7' 2" f	7' 2" f	6' 9"	6' 10" f	6' 10" f	6' 9"	6' 6" f	6' 6" f	6' 6" f	5' 11" f	5' 11" f	5' 11" f	
400JS350-54, 50ksi		9	6	16' 0" f	13' 1"	11' 5"	12' 0" f	11' 5"	9' 8"	11' 1" f	11' 1" f	9' 5"	10' 3" f	10' 3" f	8' 9"	9' 7" f	9' 7" f	8' 4"	8' 8" f	8' 8" f	7' 7"
			8	20' 9" f	17' 5"	15' 8"	14' 1"	12' 6"	10' 8"	12' 8" f	11' 5"	9' 10"	11' 7" f	10' 8"	9' 3"	10' 10" f	10' 2"	8' 10"	9' 8" f	9' 4"	8' 2"
		11	8	15' 7" f	13' 1"	11' 5"	11' 8" f	11' 5"	9' 8"	10' 7" f	10' 7" f	9' 2"	9' 10" f	9' 10" f	8' 7"	9' 3" f	9' 3" f	8' 2"	8' 5" f	8' 5" f	7' 6"
			10	19' 11" f	17' 0"	15' 0"	13' 6" f	12' 1"	10' 6"	12' 2" f	11' 2"	9' 9"	11' 3" f	10' 6"	9' 2"	10' 6" f	10' 0"	8' 9"	9' 7" f	9' 4"	8' 2"
	13	8	12' 11" f	11' 0"	9' 8"	10' 1" f	9' 8"	8' 1"	9' 4" f	9' 4" f	8' 1"	8' 9" f	8' 9" f	8' 1"	8' 3" f	8' 3" f	7' 8"	7' 6" f	7' 6" f	7' 1"	
		10	15' 2" f	13' 1"	11' 5"	11' 5" f	11' 5" f	9' 8"	10' 5" f	10' 5" f	9' 2"	9' 9" f	9' 9" f	8' 7"	9' 3" f	9' 3" f	8' 2"	8' 5" f	8' 5" f	7' 6"	
	15	12	19' 2" f	16' 6"	14' 8"	13' 2" f	12' 0"	10' 6"	12' 0" f	11' 2"	9' 9"	11' 2" f	10' 6"	9' 2"	10' 6" f	10' 0"	8' 9"	9' 7" f	9' 4"	8' 2"	
		8	11' 3" f	9' 10"	8' 7"	9' 1" f	8' 7"	7' 3"	8' 5" f	8' 5" f	7' 3"	7' 11" f	7' 11" f	7' 3"	7' 6" f	7' 6" f	7' 3"	6' 10" f	6' 10" f	6' 8"	
	400JS350-68, 50ksi	9	6	17' 9" f	14' 1"	12' 4"	13' 9" f	12' 4"	10' 4"	12' 5" f	11' 11"	10' 2"	11' 8" f	11' 2"	9' 6"	10' 11" f	10' 6"	9' 0"	9' 10" f	9' 7"	8' 3"
			8	23' 9" f	18' 11"	16' 6"	15' 3"	13' 6"	11' 6"	14' 0"	12' 4"	10' 7"	13' 0"	11' 6"	9' 11"	12' 3" f	10' 11"	9' 5"	10' 11" f	10' 1"	8' 8"
		11	8	17' 6" f	14' 1"	12' 4"	13' 3" f	12' 4"	10' 4"	12' 0" f	11' 6"	9' 10"	11' 2" f	10' 9"	9' 3"	10' 5" f	10' 2"	8' 9"	9' 5" f	9' 4"	8' 1"
			10	22' 3" f	18' 4"	16' 2"	14' 8"	13' 0"	11' 3"	13' 5"	12' 0"	10' 5"	12' 6" f	11' 3"	9' 10"	11' 9" f	10' 9"	9' 4"	10' 7" f	9' 11"	8' 8"
13		8	14' 8" f	11' 10"	10' 4"	11' 6" f	10' 4"	8' 9"	10' 6" f	10' 4"	8' 9"	9' 10" f	9' 10" f	8' 8"	9' 3" f	9' 3" f	8' 3"	8' 5" f	8' 5" f	7' 7"	
		10	17' 3" f	14' 1"	12' 4"	12' 10" f	12' 3"	10' 4"	11' 8" f	11' 3"	9' 9"	10' 11" f	10' 7"	9' 2"	10' 3" f	10' 1"	8' 9"	9' 4" f	9' 4" f	8' 1"	
15		12	21' 8" f	17' 9"	15' 9"	14' 4"	12' 10"	11' 3"	13' 3"	11' 10"	10' 5"	12' 4" f	11' 3"	9' 10"	11' 7" f	10' 8"	9' 4"	10' 7" f	9' 11"	8' 8"	
		8	12' 10" f	10' 7"	9' 3"	10' 3" f	9' 3"	7' 10"	9' 6" f	9' 3"	7' 10"	8' 11" f	8' 11" f	7' 10"	8' 5" f	8' 5" f	7' 10"	7' 8" f	7' 8" f	7' 2"	
15		10	14' 5" f	11' 10"	10' 4"	11' 3" f	10' 4"	8' 9"	10' 5" f	10' 4"	8' 9"	9' 9" f	9' 9" f	8' 8"	9' 3" f	9' 3" f	8' 3"	8' 5" f	8' 5" f	7' 7"	
		12	16' 11" f	14' 1"	12' 4"	12' 8" f	12' 2"	10' 4"	11' 7" f	11' 3"	9' 9"	10' 10" f	10' 7"	9' 2"	10' 3" f	10' 1"	8' 9"	9' 4" f	9' 4" f	8' 1"	

Important Notes

1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
3. A load factor of 0.7 for lateral wind pressure is used for deflection determination as per IBC 2006, Sec. 1604.3 and AISI-Wall Stud Design Std. 2004, Sec. B1 (Except for 5psf lateral pressure where 1.0 load factor is used.)
4. "f" denotes limiting header span is controlled by strength. All other spans are controlled by deflection.
5. If wind reduction factor for deflection determination is not allowed by a specific building code, multiply table values not denoted by "f" by 85% to calculate the proper JS header span. Table values denoted by "f" are controlled by strength and should not be reduced.
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.

600JS250-43, 50ksi



JamStud Member	Wall Ht. (ft)	Opening Height (ft)	WIND PRESSURE (PSF) AND DEFLECTION LIMITS																		
			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
400JS350-97, 50ksi	9	6	19' 10"	15' 9"	13' 9"	15' 9"	13' 9"	11' 7"	15' 3" f	13' 4"	11' 6"	14' 1" f	12' 5"	10' 9"	13' 2" f	11' 11"	10' 2"	11' 11" f	10' 10"	9' 3"	
		8	27' 2"	21' 7"	18' 10"	16' 10"	15' 2"	13' 0"	15' 9"	13' 11"	11' 11"	14' 8"	13' 0"	11' 1"	13' 11"	12' 3"	10' 6"	12' 9"	11' 3"	9' 8"	
	11	8	19' 10"	15' 9"	13' 9"	15' 9"	13' 9"	11' 7"	14' 7" f	12' 11"	11' 1"	13' 6" f	12' 1"	10' 4"	12' 8" f	11' 5"	9' 10"	11' 4" f	10' 6"	9' 0"	
		10	25' 5"	20' 2"	18' 3"	16' 6"	14' 7"	12' 7"	15' 1"	13' 5"	11' 7"	14' 1"	12' 7"	10' 11"	13' 5"	11' 11"	10' 4"	12' 4"	11' 0"	9' 7"	
	13	8	16' 9"	13' 3"	11' 7"	13' 3"	11' 7"	9' 9"	12' 9" f	11' 7"	9' 9"	11' 11" f	11' 5"	9' 9"	11' 2" f	10' 9"	9' 3"	10' 2" f	9' 10"	8' 6"	
		10	19' 10"	15' 9"	13' 9"	15' 5" f	13' 9"	11' 7"	14' 1" f	12' 7"	10' 11"	13' 0" f	11' 10"	10' 3"	12' 3" f	11' 3"	9' 9"	11' 1" f	10' 4"	9' 0"	
	15	12	24' 0"	19' 11"	17' 8"	16' 0"	14' 3"	12' 5"	14' 9"	13' 2"	11' 6"	13' 10"	12' 5"	10' 10"	13' 2"	11' 10"	10' 4"	12' 2"	11' 0"	9' 7"	
		8	14' 11"	11' 10"	10' 4"	11' 10"	10' 4"	8' 9"	11' 6" f	10' 4"	8' 9"	10' 9" f	10' 4"	8' 9"	10' 2" f	10' 2" f	8' 9"	9' 3" f	9' 3" f	8' 1"	
	400JS350-118, 50ksi	9	6	21' 1"	16' 9"	14' 7"	16' 9"	14' 7"	12' 4"	16' 3"	14' 3"	12' 0"	15' 1"	13' 2"	11' 5"	14' 3"	12' 5"	10' 9"	12' 11"	11' 7"	9' 10"
			8	28' 11"	23' 0"	20' 1"	17' 11"	15' 11"	13' 9"	16' 3"	14' 9"	12' 7"	15' 7"	13' 9"	11' 9"	14' 9"	13' 0"	11' 2"	13' 6"	11' 11"	10' 3"
		11	8	21' 1"	16' 9"	14' 7"	16' 9"	14' 7"	12' 4"	15' 8"	13' 9"	11' 9"	14' 7"	12' 10"	11' 0"	13' 9"	12' 1"	10' 5"	12' 7"	11' 1"	9' 6"
			10	27' 1"	21' 6"	19' 5"	17' 6"	15' 5"	13' 3"	16' 0"	14' 2"	12' 3"	14' 11"	13' 3"	11' 6"	14' 2"	12' 7"	10' 11"	13' 0"	11' 7"	10' 1"
13		8	17' 9"	14' 1"	12' 4"	14' 1"	12' 4"	10' 5"	14' 1"	12' 4"	10' 5"	13' 4" f	12' 1"	10' 4"	12' 6" f	11' 5"	9' 9"	11' 4" f	10' 6"	9' 0"	
		10	21' 1"	16' 9"	14' 7"	16' 6"	14' 7"	12' 4"	15' 1"	13' 4"	11' 6"	14' 1"	12' 6"	10' 9"	13' 4"	11' 10"	10' 3"	12' 3"	10' 11"	9' 6"	
15		12	25' 7"	21' 2"	18' 8"	16' 11"	15' 0"	13' 1"	15' 7"	13' 10"	12' 1"	14' 7"	13' 1"	11' 5"	13' 10"	12' 5"	10' 11"	12' 10"	11' 6"	10' 1"	
		8	15' 11"	12' 7"	11' 0"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 0" f	11' 0"	9' 3"	11' 4" f	10' 11"	9' 3"	10' 4" f	9' 11"	8' 6"	
600JS250-33, 50ksi		9	6	10' 4" f	9' 0"	7' 10"	8' 11" f	7' 10"	6' 7"	8' 5" f	7' 10"	6' 7"	8' 0" f	7' 10"	6' 7"	7' 8" f	7' 8" f	6' 7"	7' 1" f	7' 1" f	6' 7"
			8	15' 5" f	12' 11"	11' 4"	11' 9" f	11' 4"	9' 6"	10' 9" f	10' 9" f	9' 6"	10' 1" f	10' 1" f	9' 6"	9' 6" f	9' 6" f	9' 5"	8' 8" f	8' 8" f	8' 8" f
		11	8	10' 3" f	9' 0"	7' 10"	8' 9" f	7' 10"	6' 7"	8' 4" f	7' 10"	6' 7"	7' 11" f	7' 10"	6' 7"	7' 7" f	7' 7" f	6' 7"	7' 1" f	7' 1" f	6' 7"
			10	15' 0" f	12' 11"	11' 4"	11' 5" f	11' 4"	9' 6"	10' 7" f	10' 7" f	9' 6"	9' 11" f	9' 11" f	9' 6"	9' 5" f	9' 5" f	9' 4"	8' 7" f	8' 7" f	8' 7" f
	13	8	8' 3" f	7' 7"	6' 7"	7' 4" f	6' 7"	5' 7"	7' 0" f	6' 7"	5' 7"	6' 8" f	6' 7"	5' 7"	6' 5" f	6' 5" f	5' 7"	6' 0" f	6' 0" f	5' 7"	
		10	10' 3" f	9' 0"	7' 10"	8' 9" f	7' 10"	6' 7"	8' 4" f	7' 10"	6' 7"	7' 11" f	7' 10"	6' 7"	7' 7" f	7' 7" f	6' 7"	7' 1" f	7' 1" f	6' 7"	
	15	12	14' 9" f	12' 11"	11' 4"	11' 5" f	11' 4"	9' 6"	10' 6" f	10' 6" f	9' 6"	9' 11" f	9' 11" f	9' 6"	9' 5" f	9' 5" f	9' 4"	8' 7" f	8' 7" f	8' 7" f	
		8	7' 0" f	6' 9"	5' 11"	6' 4" f	5' 11"	5' 0"	6' 1" f	5' 11"	5' 0"	5' 11" f	5' 11" f	5' 0"	5' 8" f	5' 8" f	5' 0"	5' 4" f	5' 4" f	5' 0"	
	600JS250-43, 50ksi	9	6	12' 4"	9' 9"	8' 6"	9' 9"	8' 6"	7' 2"	9' 9"	8' 6"	7' 2"	9' 9"	8' 6"	7' 2"	9' 5" f	8' 6"	7' 2"	8' 9" f	8' 6"	7' 2"
			8	17' 9"	14' 1"	12' 4"	14' 1"	12' 4"	10' 5"	13' 2" f	12' 4"	10' 5"	12' 3" f	12' 3" f	10' 5"	11' 6" f	11' 6" f	10' 3"	10' 4" f	10' 4" f	9' 6"
		11	8	12' 4"	9' 9"	8' 6"	9' 9"	8' 6"	7' 2"	9' 9"	8' 6"	7' 2"	9' 8" f	8' 6"	7' 2"	9' 2" f	8' 6"	7' 2"	8' 6" f	8' 6" f	7' 2"
			10	17' 9"	14' 1"	12' 4"	13' 10" f	12' 4"	10' 5"	12' 8" f	12' 4"	10' 5"	11' 9" f	11' 9" f	10' 5"	11' 1" f	11' 1" f	10' 2"	10' 2" f	10' 2" f	9' 5"
13		8	10' 4" f	8' 3"	7' 2"	8' 3"	7' 2"	6' 1"	8' 3"	7' 2"	6' 1"	7' 2"	6' 1"	7' 2"	6' 1"	7' 11" f	7' 2"	6' 1"	7' 5" f	7' 2"	
		10	12' 4"	9' 9"	8' 6"	9' 9"	8' 6"	7' 2"	9' 9"	8' 6"	7' 2"	9' 7" f	8' 6"	7' 2"	9' 2" f	8' 6"	7' 2"	8' 6" f	8' 6" f	7' 2"	
15		12	17' 9"	14' 1"	12' 4"	13' 7" f	12' 4"	10' 5"	12' 6" f	12' 4"	10' 5"	11' 8" f	11' 8" f	10' 5"	11' 1" f	11' 1" f	10' 2"	10' 2" f	10' 2" f	9' 5"	
		8	8' 10" f	7' 4"	6' 5"	7' 4"	6' 5"	5' 5"	7' 4"	6' 5"	5' 5"	7' 3" f	6' 5"	5' 5"	7' 0" f	6' 5"	5' 5"	6' 7" f	6' 5"	5' 5"	
15		10	10' 3" f	8' 3"	7' 2"	8' 3"	7' 2"	6' 1"	8' 3"	7' 2"	6' 1"	8' 3" f	7' 2"	6' 1"	7' 11" f	7' 2"	6' 1"	7' 5" f	7' 2"	6' 1"	
		12	12' 4"	9' 9"	8' 6"	9' 9"	8' 6"	7' 2"	9' 9"	8' 6"	7' 2"	9' 7" f	8' 6"	7' 2"	9' 2" f	8' 6"	7' 2"	8' 6" f	8' 6" f	7' 2"	

Important Notes

1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
3. A load factor of 0.7 for lateral wind pressure is used for deflection determination as per IBC 2006, Sec. 1604.3 and AISI-Wall Stud Design Std. 2004, Sec. B1 (Except for 5psf lateral pressure where 1.0 load factor is used.)
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JamStud Member	Wall Ht. (ft)	Opening Height (ft)	WIND PRESSURE (PSF) AND DEFLECTION LIMITS																		
			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
600JS250-54, 50ksi	9	6	13' 3"	10' 6"	9' 2"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	9' 9" f	9' 2"	7' 9"	
		8	19' 2"	15' 2"	13' 3"	15' 2"	13' 3"	11' 2"	14' 8" f	13' 3"	11' 2"	13' 7" f	13' 3"	11' 2"	12' 9" f	12' 9" f	11' 1"	11' 5" f	11' 5" f	10' 2"	
	11	8	13' 3"	10' 6"	9' 2"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 3" f	9' 2"	7' 9"	9' 5" f	9' 2"	7' 9"	
		10	19' 2"	15' 2"	13' 3"	15' 2"	13' 3"	11' 2"	14' 0" f	13' 3"	11' 2"	13' 0" f	13' 0" f	11' 2"	12' 3" f	12' 3" f	10' 10"	11' 1" f	11' 1" f	10' 0"	
	13	8	11' 2"	8' 10"	7' 9"	8' 10"	7' 9"	6' 6"	8' 10"	7' 9"	6' 6"	8' 10"	7' 9"	6' 6"	8' 10" f	7' 9"	6' 6"	8' 2" f	7' 9"	6' 6"	
		10	13' 3"	10' 6"	9' 2"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 1" f	9' 2"	7' 9"	9' 4" f	9' 2"	7' 9"	
	15	12	19' 2"	15' 2"	13' 3"	14' 11" f	13' 3"	11' 2"	13' 8" f	13' 3"	11' 2"	12' 9" f	12' 9" f	11' 2"	12' 1" f	12' 1" f	10' 10"	11' 1" f	11' 1" f	10' 0"	
		8	10' 0" f	7' 11"	6' 11"	7' 11"	6' 11"	5' 10"	7' 11"	6' 11"	5' 10"	7' 11"	6' 11"	5' 10"	7' 10" f	6' 11"	5' 10"	7' 4" f	6' 11"	5' 10"	
	15	10	11' 2"	8' 10"	7' 9"	8' 10"	7' 9"	6' 6"	8' 10"	7' 9"	6' 6"	8' 10"	7' 9"	6' 6"	8' 9" f	7' 9"	6' 6"	8' 2" f	7' 9"	6' 6"	
		12	13' 3"	10' 6"	9' 2"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 6"	9' 2"	7' 9"	10' 1" f	9' 2"	7' 9"	9' 4" f	9' 2"	7' 9"	
	600JS250-68, 50ksi	9	6	14' 3"	11' 4"	9' 10"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 0" f	9' 10"	8' 4"
			8	20' 7"	16' 4"	14' 3"	16' 4"	14' 3"	12' 0"	16' 2" f	14' 3"	12' 0"	15' 4" f	14' 3"	12' 0"	14' 4" f	13' 9"	11' 10"	12' 10" f	12' 7"	10' 10"
11		8	14' 3"	11' 4"	9' 10"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	10' 7" f	9' 10"	8' 4"	
		10	20' 7"	16' 4"	14' 3"	16' 4"	14' 3"	12' 0"	15' 9" f	14' 3"	12' 0"	14' 6" f	14' 0"	12' 0"	13' 7" f	13' 4"	11' 6"	12' 4" f	12' 3"	10' 8"	
13		8	12' 0"	9' 6"	8' 4"	9' 6"	8' 4"	7' 0"	9' 6"	8' 4"	7' 0"	9' 6"	8' 4"	7' 0"	9' 6"	8' 4"	7' 0"	9' 2" f	8' 4"	7' 0"	
		10	14' 3"	11' 4"	9' 10"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 3" f	9' 10"	8' 4"	10' 5" f	9' 10"	8' 4"	
15		12	20' 7"	16' 4"	14' 3"	16' 4"	14' 3"	12' 0"	15' 2" f	14' 3"	12' 0"	14' 1" f	13' 9"	12' 0"	13' 4" f	13' 1"	11' 5"	12' 2" f	12' 1"	10' 7"	
		8	10' 9"	8' 6"	7' 5"	8' 6"	7' 5"	6' 3"	8' 6"	7' 5"	6' 3"	8' 6"	7' 5"	6' 3"	8' 6"	7' 5"	6' 3"	8' 3" f	7' 5"	6' 3"	
15		10	12' 0"	9' 6"	8' 4"	9' 6"	8' 4"	7' 0"	9' 6"	8' 4"	7' 0"	9' 6"	8' 4"	7' 0"	9' 6"	8' 4"	7' 0"	9' 2" f	8' 4"	7' 0"	
		12	14' 3"	11' 4"	9' 10"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 4"	9' 10"	8' 4"	11' 3" f	9' 10"	8' 4"	10' 5" f	9' 10"	8' 4"	
600JS250-97, 50ksi		9	6	15' 11"	12' 7"	11' 0"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"
			8	22' 11"	18' 2"	15' 11"	18' 2"	15' 11"	13' 5"	18' 2"	15' 11"	13' 5"	18' 0"	15' 11"	13' 5"	16' 11"	15' 3"	13' 1"	15' 10"	14' 0"	11' 11"
	11	8	15' 11"	12' 7"	11' 0"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	
		10	22' 11"	18' 2"	15' 11"	18' 2"	15' 11"	13' 5"	18' 2"	15' 11"	13' 5"	17' 6"	15' 6"	13' 4"	16' 7"	14' 8"	12' 7"	15' 2" f	13' 6"	11' 8"	
	13	8	13' 5"	10' 8"	9' 3"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	
		10	15' 11"	12' 7"	11' 0"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	
	15	12	22' 11"	18' 2"	15' 11"	18' 2"	15' 11"	13' 5"	18' 2"	15' 11"	13' 5"	17' 0"	15' 1"	13' 1"	16' 1"	14' 4"	12' 6"	14' 8" f	13' 3"	11' 7"	
		8	12' 0"	9' 6"	8' 3"	9' 6"	8' 3"	7' 0"	9' 6"	8' 3"	7' 0"	9' 6"	8' 3"	7' 0"	9' 6"	8' 3"	7' 0"	9' 6"	8' 3"	7' 0"	
	15	10	13' 5"	10' 8"	9' 3"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	10' 8"	9' 3"	7' 10"	
		12	15' 11"	12' 7"	11' 0"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 7"	11' 0"	9' 3"	12' 6" f	11' 0"	9' 3"	
	600JS250-118, 50ksi	9	6	16' 10"	13' 5"	11' 8"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"
			8	24' 4"	19' 4"	16' 10"	19' 4"	16' 10"	14' 3"	19' 4"	16' 10"	14' 3"	19' 1"	16' 8"	14' 3"	18' 0"	15' 11"	13' 10"	16' 4"	14' 9"	12' 8"
11		8	16' 10"	13' 5"	11' 8"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	
		10	24' 4"	19' 4"	16' 10"	19' 4"	16' 10"	14' 3"	19' 4"	16' 10"	14' 3"	18' 6"	16' 4"	14' 0"	17' 6"	15' 6"	13' 4"	16' 0"	14' 2"	12' 3"	
13		8	14' 3"	11' 3"	9' 10"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	
		10	16' 10"	13' 5"	11' 8"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	
15		12	24' 4"	19' 4"	16' 10"	19' 4"	16' 10"	14' 3"	19' 2"	16' 10"	14' 3"	17' 11"	15' 11"	13' 9"	17' 0"	15' 1"	13' 1"	15' 7"	13' 11"	12' 2"	
		8	12' 8"	10' 1"	8' 10"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	
15		10	14' 3"	11' 3"	9' 10"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	11' 3"	9' 10"	8' 4"	
		12	16' 10"	13' 5"	11' 8"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	13' 5"	11' 8"	9' 10"	

Important Notes

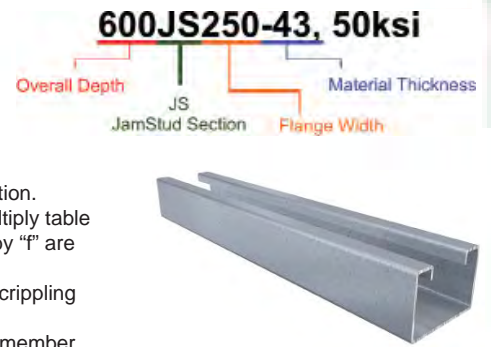
1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
3. A load factor of 0.7 for lateral wind pressure is used for deflection determination as per IBC 2006, Sec. 1604.3 and AISI-Wall Stud Design Std. 2004, Sec. B1 (Except for 5psf lateral pressure where 1.0 load factor is used.)
4. "f" denotes limiting header span is controlled by strength. All other spans are controlled by deflection.
5. If wind reduction factor for deflection determination is not allowed by a specific building code, multiply table values not denoted by "f" by 85% to calculate the proper JS header span. Table values denoted by "f" are controlled by strength and should not be reduced.
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.



JamStud Member	Wall Ht. (ft)	Opening Height (ft)	WIND PRESSURE (PSF) AND DEFLECTION LIMITS																		
			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
600JS350-68, 50ksi	9	6	18' 8"	14' 10"	12' 11"	14' 10"	12' 11"	10' 11"	14' 10"	12' 11"	10' 11"	13' 11" f	12' 11"	10' 11"	13' 1" f	12' 11"	10' 11"	11' 11" f	11' 11" f	10' 11"	
		8	26' 11"	21' 5"	18' 8"	19' 6" f	17' 6"	15' 3"	17' 5" f	15' 11"	14' 0"	15' 11" f	15' 3"	13' 0"	15' 2" f	14' 5"	12' 4"	13' 6" f	13' 2"	11' 4"	
	11	8	18' 8"	14' 10"	12' 11"	14' 10"	12' 11"	10' 11"	14' 5" f	12' 11"	10' 11"	13' 5" f	12' 11"	10' 11"	12' 8" f	12' 8" f	10' 11"	11' 5" f	11' 5" f	10' 6"	
		10	26' 8" f	21' 5"	18' 8"	18' 8" f	17' 1"	14' 8"	16' 9" f	15' 8"	13' 5"	15' 5" f	14' 8"	12' 7"	14' 4" f	13' 11"	12' 0"	12' 10" f	12' 9"	11' 1"	
	13	8	15' 9"	12' 6"	10' 11"	12' 6"	10' 11"	9' 2"	12' 5" f	10' 11"	9' 2"	11' 8" f	10' 11"	9' 2"	11' 1" f	10' 11"	9' 2"	10' 1" f	10' 1" f	9' 2"	
		10	18' 8"	14' 10"	12' 11"	14' 10"	12' 11"	10' 11"	13' 11" f	12' 11"	10' 11"	13' 0" f	12' 11"	10' 11"	12' 3" f	12' 3" f	10' 11"	11' 2" f	11' 2" f	10' 5"	
	15	12	25' 4" f	21' 5"	18' 8"	17' 11" f	16' 7"	14' 4"	16' 1" f	15' 3"	13' 3"	14' 10" f	14' 4"	12' 6"	13' 11" f	13' 7"	11' 11"	12' 7" f	12' 7" f	11' 0"	
		8	14' 0" f	11' 2"	9' 9"	11' 2"	9' 9"	8' 3"	11' 1" f	9' 9"	8' 3"	10' 5" f	9' 9"	8' 3"	9' 11" f	9' 9"	8' 3"	9' 2" f	9' 2" f	8' 3"	
	15	10	15' 9"	12' 6"	10' 11"	12' 6"	10' 11"	9' 2"	12' 2" f	10' 11"	9' 2"	11' 5" f	10' 11"	9' 2"	10' 11" f	10' 11" f	9' 2"	10' 0" f	10' 0" f	9' 2"	
		12	18' 8"	14' 10"	12' 11"	14' 10" f	12' 11"	10' 11"	13' 8" f	12' 11"	10' 11"	12' 10" f	12' 10" f	10' 11"	12' 2" f	12' 2" f	10' 11"	11' 1" f	11' 1" f	10' 5"	
	600JS350-97, 50ksi	9	6	20' 11"	16' 7"	14' 6"	16' 7"	14' 6"	12' 2"	16' 7"	14' 6"	12' 2"	16' 7"	14' 6"	12' 2"	16' 1" f	14' 6"	12' 2"	14' 6" f	14' 5"	12' 2"
			8	30' 2"	23' 11"	20' 11"	22' 10"	20' 0"	16' 10"	20' 9"	18' 2"	15' 9"	19' 3"	16' 10"	14' 9"	18' 1" f	15' 11"	13' 11"	15' 11" f	14' 11"	12' 9"
11		8	20' 11"	16' 7"	14' 6"	16' 7"	14' 6"	12' 2"	16' 7"	14' 6"	12' 2"	15' 11" f	14' 6"	12' 2"	15' 4" f	14' 6"	12' 2"	13' 10" f	13' 10" f	11' 10"	
		10	30' 2"	23' 11"	20' 11"	21' 5"	19' 4"	16' 6"	19' 11" f	17' 8"	15' 1"	18' 8" f	16' 6"	14' 2"	17' 4" f	15' 7"	13' 5"	15' 5" f	14' 4"	12' 4"	
13		8	17' 7"	14' 0"	12' 2"	14' 0"	12' 2"	10' 3"	14' 0"	12' 2"	10' 3"	14' 0"	12' 2"	10' 3"	13' 4" f	12' 2"	10' 3"	12' 2" f	12' 2" f	10' 3"	
		10	20' 11"	16' 7"	14' 6"	16' 7"	14' 6"	12' 2"	16' 7"	14' 6"	12' 2"	15' 8" f	14' 6"	12' 2"	14' 9" f	14' 6"	12' 2"	13' 4" f	13' 4" f	11' 7"	
15		12	30' 2"	23' 11"	20' 11"	21' 1"	18' 7"	16' 0"	19' 4"	17' 1"	14' 9"	17' 10" f	16' 0"	13' 10"	16' 7" f	15' 2"	13' 2"	14' 11" f	14' 0"	12' 2"	
		8	15' 9"	12' 6"	10' 11"	12' 6"	10' 11"	9' 2"	12' 6"	10' 11"	9' 2"	12' 6"	10' 11"	9' 2"	12' 0" f	10' 11"	9' 2"	11' 0" f	10' 11"	9' 2"	
15		10	17' 7"	14' 0"	12' 2"	14' 0"	12' 2"	10' 3"	14' 0"	12' 2"	10' 3"	13' 9" f	12' 2"	10' 3"	13' 0" f	12' 2"	10' 3"	11' 11" f	11' 11" f	10' 3"	
		12	20' 11"	16' 7"	14' 6"	16' 7"	14' 6"	12' 2"	16' 4" f	14' 6"	12' 2"	15' 3" f	14' 6"	12' 2"	14' 4" f	14' 4" f	12' 2"	13' 1" f	13' 1" f	11' 7"	
600JS350-118, 50ksi		9	6	22' 2"	17' 7"	15' 4"	17' 7"	15' 4"	13' 0"	17' 7"	15' 4"	13' 0"	17' 7"	15' 4"	13' 0"	17' 7"	15' 4"	13' 0"	16' 4" f	15' 4"	13' 0"
			8	32' 0"	25' 5"	22' 2"	24' 5"	21' 4"	18' 0"	22' 3"	19' 5"	16' 4"	20' 7"	18' 0"	15' 8"	19' 5"	16' 11"	14' 10"	17' 7"	15' 10"	13' 6"
	11	8	22' 2"	17' 7"	15' 4"	17' 7"	15' 4"	13' 0"	17' 7"	15' 4"	13' 0"	17' 7"	15' 4"	13' 0"	16' 11" f	15' 4"	13' 0"	15' 7" f	14' 10"	12' 7"	
		10	32' 0"	25' 5"	22' 2"	22' 10"	20' 0"	17' 6"	20' 9"	18' 9"	16' 1"	19' 11"	17' 6"	15' 0"	18' 9"	16' 7"	14' 3"	17' 2"	15' 2"	13' 1"	
	13	8	18' 9"	14' 10"	13' 0"	14' 10"	13' 0"	10' 11"	14' 10"	13' 0"	10' 11"	14' 10"	13' 0"	10' 11"	14' 10"	13' 0"	10' 11"	13' 8" f	13' 0"	10' 11"	
		10	22' 2"	17' 7"	15' 4"	17' 7"	15' 4"	13' 0"	17' 7"	15' 4"	13' 0"	17' 6" f	15' 4"	13' 0"	16' 6" f	15' 4"	13' 0"	14' 11" f	14' 4"	12' 4"	
	15	12	32' 0"	25' 5"	22' 2"	22' 5"	19' 9"	17' 0"	20' 6"	18' 2"	15' 7"	19' 2"	17' 0"	14' 8"	18' 2"	16' 1"	13' 11"	16' 7" f	14' 10"	12' 10"	
		8	16' 9"	13' 3"	11' 7"	13' 3"	11' 7"	9' 9"	13' 3"	11' 7"	9' 9"	13' 3"	11' 7"	9' 9"	13' 3"	11' 7"	9' 9"	12' 4" f	11' 7"	9' 9"	
	15	10	18' 9"	14' 10"	13' 0"	14' 10"	13' 0"	10' 11"	14' 10"	13' 0"	10' 11"	14' 10"	13' 0"	10' 11"	14' 6" f	13' 0"	10' 11"	13' 3" f	13' 0"	10' 11"	
		12	22' 2"	17' 7"	15' 4"	17' 7"	15' 4"	13' 0"	17' 7"	15' 4"	13' 0"	17' 0" f	15' 4"	13' 0"	16' 0" f	15' 3"	13' 0"	14' 6" f	14' 1"	12' 2"	
	800JS250-43, 50ksi	9	6	12' 9"	10' 1"	8' 10"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	9' 6" f	8' 10"	7' 5"
			8	18' 4"	14' 7"	12' 9"	14' 7"	12' 9"	10' 9"	14' 7" f	12' 9"	10' 9"	13' 7" f	12' 9"	10' 9"	12' 9" f	12' 9" f	10' 9"	11' 6" f	11' 6" f	10' 9"
11		8	12' 9"	10' 1"	8' 10"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 0" f	8' 10"	7' 5"	9' 3" f	8' 10"	7' 5"	
		10	18' 4"	14' 7"	12' 9"	14' 7"	12' 9"	10' 9"	13' 11" f	12' 9"	10' 9"	13' 0" f	12' 9"	10' 9"	12' 3" f	12' 3" f	10' 9"	11' 2" f	11' 2" f	10' 9"	
13		8	10' 8" f	8' 6"	7' 5"	8' 6"	7' 5"	6' 3"	8' 6"	7' 5"	6' 3"	8' 6"	7' 5"	6' 3"	8' 6" f	7' 5"	6' 3"	8' 0" f	7' 5"	6' 3"	
		10	12' 9"	10' 1"	8' 10"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	9' 11" f	8' 10"	7' 5"	9' 3" f	8' 10"	7' 5"	
15		12	18' 4"	14' 7"	12' 9"	14' 7"	12' 9"	10' 9"	13' 8" f	12' 9"	10' 9"	12' 9" f	12' 9" f	10' 9"	12' 1" f	12' 1" f	10' 9"	11' 1" f	11' 1" f	10' 9"	
		8	9' 1" f	7' 7"	6' 8"	7' 7"	6' 8"	5' 7"	7' 7"	6' 8"	5' 7"	7' 7"	6' 8"	5' 7"	7' 6" f	6' 8"	5' 7"	7' 1" f	6' 8"	5' 7"	
15		10	10' 8" f	8' 6"	7' 5"	8' 6"	7' 5"	6' 3"	8' 6"	7' 5"	6' 3"	8' 6"	7' 5"	6' 3"	8' 6" f	7' 5"	6' 3"	8' 0" f	7' 5"	6' 3"	
		12	12' 9"	10' 1"	8' 10"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	10' 1"	8' 10"	7' 5"	9' 11" f	8' 10"	7' 5"	9' 3" f	8' 10"	7' 5"	

Important Notes

1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
3. A load factor of 0.7 for lateral wind pressure is used for deflection determination as per IBC 2006, Sec. 1604.3 and AISI-Wall Stud Design Std. 2004, Sec. B1 (Except for 5psf lateral pressure where 1.0 load factor is used.)
4. "f" denotes limiting header span is controlled by strength. All other spans are controlled by deflection.
5. If wind reduction factor for deflection determination is not allowed by a specific building code, multiply table values not denoted by "f" by 85% to calculate the proper JS header span. Table values denoted by "f" are controlled by strength and should not be reduced.
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.



JamStud Member	Wall Ht. (ft)	Opening Height (ft)	WIND PRESSURE (PSF) AND DEFLECTION LIMITS																		
			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
800JS250-54, 50ksi	9	6	13' 8"	10' 10"	9' 6"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	
		8	19' 9"	15' 8"	13' 8"	15' 8"	13' 8"	11' 6"	15' 8"	13' 8"	11' 6"	15' 7" f	13' 8"	11' 6"	14' 7" f	13' 8"	11' 6"	13' 2" f	13' 2" f	11' 6"	
	11	8	13' 8"	10' 10"	9' 6"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 7" f	9' 6"	8' 0"	
		10	19' 9"	15' 8"	13' 8"	15' 8"	13' 8"	11' 6"	15' 8"	13' 8"	11' 6"	14' 10" f	13' 8"	11' 6"	13' 11" f	13' 8"	11' 6"	12' 8" f	12' 8" f	11' 6"	
	13	8	11' 6"	9' 2"	8' 0"	9' 2"	8' 0"	6' 9"	9' 2"	8' 0"	6' 9"	9' 2"	8' 0"	6' 9"	9' 2"	8' 0"	6' 9"	9' 1" f	8' 0"	6' 9"	
		10	13' 8"	10' 10"	9' 6"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 5" f	9' 6"	8' 0"	
	15	12	19' 9"	15' 8"	13' 8"	15' 8"	13' 8"	11' 6"	15' 5" f	13' 8"	11' 6"	14' 5" f	13' 8"	11' 6"	13' 7" f	13' 7" f	11' 6"	12' 5" f	12' 5" f	11' 6"	
		8	10' 4" f	8' 2"	7' 2"	8' 2"	7' 2"	6' 0"	8' 2"	7' 2"	6' 0"	8' 2"	7' 2"	6' 0"	8' 2"	7' 2"	6' 0"	8' 1" f	7' 2"	6' 0"	
	15	10	11' 6"	9' 2"	8' 0"	9' 2"	8' 0"	6' 9"	9' 2"	8' 0"	6' 9"	9' 2"	8' 0"	6' 9"	9' 2"	8' 0"	6' 9"	9' 0" f	8' 0"	6' 9"	
		12	13' 8"	10' 10"	9' 6"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 10"	9' 6"	8' 0"	10' 5" f	9' 6"	8' 0"	
	800JS250-68, 50ksi	9	6	14' 9"	11' 8"	10' 2"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"
			8	21' 3"	16' 10"	14' 9"	16' 10"	14' 9"	12' 5"	16' 10"	14' 9"	12' 5"	16' 10"	14' 9"	12' 5"	16' 1" f	14' 9"	12' 5"	14' 11" f	14' 9"	12' 5"
11		8	14' 9"	11' 8"	10' 2"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	
		10	21' 3"	16' 10"	14' 9"	16' 10"	14' 9"	12' 5"	16' 10"	14' 9"	12' 5"	16' 8" f	14' 9"	12' 5"	15' 8" f	14' 9"	12' 5"	14' 2" f	14' 2" f	12' 5"	
13		8	12' 5"	9' 10"	8' 7"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	
		10	14' 9"	11' 8"	10' 2"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8" f	10' 2"	8' 7"	
15		12	21' 3"	16' 10"	14' 9"	16' 10"	14' 9"	12' 5"	16' 10"	14' 9"	12' 5"	16' 1" f	14' 9"	12' 5"	15' 2" f	14' 9"	12' 5"	13' 9" f	13' 9" f	12' 5"	
		8	11' 1"	8' 9"	7' 8"	8' 9"	7' 8"	6' 6"	8' 9"	7' 8"	6' 6"	8' 9"	7' 8"	6' 6"	8' 9"	7' 8"	6' 6"	8' 9"	7' 8"	6' 6"	
15		10	12' 5"	9' 10"	8' 7"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	
		12	14' 9"	11' 8"	10' 2"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 7" f	10' 2"	8' 7"	
800JS250-97, 50ksi		9	6	16' 5"	13' 0"	11' 4"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"
			8	23' 8"	18' 10"	16' 5"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	18' 3" f	16' 5"	13' 10"
	11	8	16' 5"	13' 0"	11' 4"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	
		10	23' 8"	18' 10"	16' 5"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	17' 6" f	16' 5"	13' 10"	
	13	8	13' 10"	11' 0"	9' 7"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	
		10	16' 5"	13' 0"	11' 4"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	
	15	12	23' 8"	18' 10"	16' 5"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	18' 10"	16' 5"	13' 10"	16' 10" f	16' 0"	13' 10"	
		8	12' 4"	9' 10"	8' 7"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	9' 10"	8' 7"	7' 3"	
	15	10	13' 10"	11' 0"	9' 7"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	11' 0"	9' 7"	8' 1"	
		12	16' 5"	13' 0"	11' 4"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	13' 0"	11' 4"	9' 7"	
	800JS250-118, 50ksi	9	6	17' 5"	13' 10"	12' 1"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"
			8	25' 2"	19' 11"	17' 5"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"
11		8	17' 5"	13' 10"	12' 1"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	
		10	25' 2"	19' 11"	17' 5"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 3" f	17' 5"	14' 8"	
13		8	14' 8"	11' 8"	10' 2"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	
		10	17' 5"	13' 10"	12' 1"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	
15		12	25' 2"	19' 11"	17' 5"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	19' 11"	17' 5"	14' 8"	18' 5" f	16' 11"	14' 7"	
		8	13' 2"	10' 5"	9' 1"	10' 5"	9' 1"	7' 8"	10' 5"	9' 1"	7' 8"	10' 5"	9' 1"	7' 8"	10' 5"	9' 1"	7' 8"	10' 5"	9' 1"	7' 8"	
15		10	14' 8"	11' 8"	10' 2"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	11' 8"	10' 2"	8' 7"	
		12	17' 5"	13' 10"	12' 1"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	13' 10"	12' 1"	10' 2"	

Important Notes

1. A sheathing dead load of 12 psf acting vertically on the header is considered in the calculations.
2. No load factor for lateral wind pressure is used for strength determination as per ASD basic load combinations in ASCE 7-05 and IBC 2006.
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			5 psf			15 psf			20 psf			25 psf			30 psf			40 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	
800JS350-68, 50ksi	9	6	19' 4"	15' 4"	13' 5"	15' 4"	13' 5"	11' 3"	15' 4"	13' 5"	11' 3"	15' 4"	13' 5"	11' 3"	15' 0" f	13' 5"	11' 3"	13' 8" f	13' 5"	11' 3"	
		8	27' 10"	22' 1"	19' 4"	22' 1"	19' 4"	16' 3"	20' 5" f	19' 4"	16' 3"	18' 8" f	18' 5"	15' 11"	17' 4" f	17' 4" f	15' 1"	15' 10" f	15' 10" f	13' 10"	
	11	8	19' 4"	15' 4"	13' 5"	15' 4"	13' 5"	11' 3"	15' 4"	13' 5"	11' 3"	15' 3" f	13' 5"	11' 3"	14' 5" f	13' 5"	11' 3"	13' 2" f	13' 2" f	11' 3"	
		10	27' 10"	22' 1"	19' 4"	21' 1" f	19' 4"	16' 3"	19' 6" f	19' 2"	16' 3"	17' 11" f	17' 11" f	15' 4"	16' 8" f	16' 8" f	14' 6"	14' 11" f	14' 11" f	13' 4"	
	13	8	16' 3"	12' 11"	11' 3"	12' 11"	11' 3"	9' 6"	12' 11"	11' 3"	9' 6"	12' 11"	11' 3"	9' 6"	12' 5" f	11' 3"	9' 6"	11' 6" f	11' 3"	9' 6"	
		10	19' 4"	15' 4"	13' 5"	15' 4"	13' 5"	11' 3"	15' 4"	13' 5"	11' 3"	14' 9" f	13' 5"	11' 3"	13' 11" f	13' 5"	11' 3"	12' 9" f	12' 9" f	11' 3"	
	15	12	27' 10"	22' 1"	19' 4"	20' 8" f	19' 4"	16' 3"	18' 7" f	18' 6"	15' 11"	17' 2" f	17' 2" f	14' 11"	16' 1" f	16' 1" f	14' 2"	14' 6" f	14' 6" f	13' 1"	
		8	14' 7"	11' 6"	10' 1"	11' 6"	10' 1"	8' 6"	11' 6"	10' 1"	8' 6"	11' 6"	10' 1"	8' 6"	11' 1" f	10' 1"	8' 6"	10' 4" f	10' 1"	8' 6"	
	800JS350-97, 50ksi	9	6	21' 7"	17' 2"	15' 0"	17' 2"	15' 0"	12' 7"	17' 2"	15' 0"	12' 7"	17' 2"	15' 0"	12' 7"	17' 2"	15' 0"	12' 7"	16' 8" f	15' 0"	12' 7"
			8	31' 2"	24' 9"	21' 7"	24' 9"	21' 7"	18' 3"	24' 9"	21' 7"	18' 3"	22' 11" f	21' 0"	17' 8"	21' 3" f	19' 9"	16' 8"	18' 10" f	17' 11"	15' 7"
		11	8	21' 7"	17' 2"	15' 0"	17' 2"	15' 0"	12' 7"	17' 2"	15' 0"	12' 7"	17' 2"	15' 0"	12' 7"	17' 2" f	15' 0"	12' 7"	15' 11" f	15' 0"	12' 7"
			10	31' 2"	24' 9"	21' 7"	24' 9"	21' 7"	18' 3"	23' 1" f	21' 2"	18' 3"	21' 2" f	19' 11"	17' 3"	19' 11" f	19' 1"	16' 4"	18' 0" f	17' 6"	15' 0"
13		8	18' 3"	14' 5"	12' 7"	14' 5"	12' 7"	10' 8"	14' 5"	12' 7"	10' 8"	14' 5"	12' 7"	10' 8"	14' 5"	12' 7"	10' 8"	13' 10" f	12' 7"	10' 8"	
		10	21' 7"	17' 2"	15' 0"	17' 2"	15' 0"	12' 7"	17' 2"	15' 0"	12' 7"	17' 2"	15' 0"	12' 7"	16' 9" f	15' 0"	12' 7"	15' 3" f	15' 0"	12' 7"	
15		12	31' 2"	24' 9"	21' 7"	24' 3" f	21' 7"	18' 3"	22' 5" f	20' 10"	17' 10"	20' 8" f	19' 6"	16' 9"	19' 3" f	18' 5"	15' 10"	17' 3" f	16' 11"	14' 7"	
		8	16' 3"	12' 11"	11' 3"	12' 11"	11' 3"	9' 6"	12' 11"	11' 3"	9' 6"	12' 11"	11' 3"	9' 6"	12' 11"	11' 3"	9' 6"	12' 5" f	11' 3"	9' 6"	
800JS350-118, 50ksi		9	6	23' 0"	18' 3"	15' 11"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"
			8	33' 2"	26' 3"	23' 0"	26' 3"	23' 0"	19' 4"	26' 3"	23' 0"	19' 4"	25' 9"	22' 6"	18' 11"	24' 1" f	21' 2"	17' 10"	21' 5" f	19' 2"	16' 2"
		11	8	23' 0"	18' 3"	15' 11"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	17' 6" f	15' 11"	13' 5"
			10	33' 2"	26' 3"	23' 0"	26' 3"	23' 0"	19' 4"	25' 11"	22' 8"	19' 4"	23' 11" f	21' 0"	18' 5"	22' 2" f	19' 11"	17' 4"	19' 11" f	18' 7"	15' 11"
	13	8	19' 4"	15' 4"	13' 5"	15' 4"	13' 5"	11' 4"	15' 4"	13' 5"	11' 4"	15' 4"	13' 5"	11' 4"	15' 4"	13' 5"	11' 4"	15' 4"	13' 5"	11' 4"	
		10	23' 0"	18' 3"	15' 11"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	17' 1" f	15' 11"	13' 5"	
	15	12	33' 2"	26' 3"	23' 0"	26' 3"	23' 0"	19' 4"	24' 6" f	22' 3"	19' 0"	23' 2" f	20' 9"	17' 9"	21' 7" f	19' 7"	16' 10"	19' 3" f	18' 0"	15' 6"	
		8	17' 4"	13' 9"	12' 0"	13' 9"	12' 0"	10' 1"	13' 9"	12' 0"	10' 1"	13' 9"	12' 0"	10' 1"	13' 9"	12' 0"	10' 1"	13' 9"	12' 0"	10' 1"	
	15	10	19' 4"	15' 4"	13' 5"	15' 4"	13' 5"	11' 4"	15' 4"	13' 5"	11' 4"	15' 4"	13' 5"	11' 4"	15' 4"	13' 5"	11' 4"	15' 0" f	13' 5"	11' 4"	
		12	23' 0"	18' 3"	15' 11"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 3"	15' 11"	13' 5"	18' 2" f	15' 11"	13' 5"	16' 6" f	15' 11"	13' 5"	