Exterior curtain wall overview

Load/Span Table Wind Pressure Notes.

Historically there have been differences in the design wind pressures determined through different versions of the model building codes. Older versions of the codes provided service level loads (ASD) while newer versions provide strength level loads (LRFD). Since IBC 2012/ASCE 7-10 design wind pressures have been determined via strength level (LRFD) loads. The load/span tables that follow are based on service level (ASD) wind loads. Therefore, to properly use the load/span tables in this catalog, multiply the IBC 2024/ASCE 7-16 design wind pressures by 0.6 (reference section 2.4 ASCE 7-16) prior to entering the load/span tables.

Example:

- ASCE 7-16 Calculated Design Wind Pressure = 25psf (strength level loads, LRFD)
- Convert to service level load (ASD) = 25psf x 0.6 = 15psf
- Use 15psf as the Pressure Value used in this table to determine the member span

The load/span tables that follow are based on service level (ASD) wind loads. If the wind load being used meets this criterion, it does not need to be modified prior to using the tables.

Allowable wall heights—curtain wall framing.

Exterior curtain walls must be designed to withstand the highest winds anticipated for the particular construction location. Wind pressures can be found in the project's structural drawings under the "general notes" section. Please contact technical services at 888-437-3244 for help converting wind speeds (mph) to wind loads (psf).

The tables on the following pages provide allowable height limitations for exterior curtain walls subjected to lateral transverse loads. Members shown vary in depth, flange width and steel thickness. Select the studs that are right for your application, also taking into account the acceptable deflection level.

Deflection.

L/240 Length (height) of stud, in inches, divided by 240
(exterior siding or EIFS)

L/360 Length (height) of stud, in inches, divided by 360
(exterior stucco)

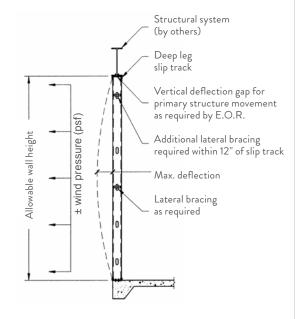
L/600 Length (height) of stud, in inches, divided by 600

(exterior brick)
L/720 Length (height) of stud, in inches, divided by 720

(exterior brick)

General Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3rd stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.
- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed KΦ = 0.
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20.
 A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
 (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 10 For deflection calculations, the 15 psf and higher ASD wind pressures have been multiplied by .7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.



Complies with AISI S100-16 (2020) w/S2-20 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

AA 1	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
Member	o.c.	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
	12	14' 1"	12' 7"	10' 7"	12' 3"	11' 5"	9' 8"	10' 11"	10' 7"	8' 11"	10' 0"	10' 0"	8' 5"	9' 3"	9' 3"	8' 0"	8' 8" e	8' 8" e	7' 8"
362S137-33	16	12' 3"	11' 5"	9' 8"	10' 7"	10' 5"	8' 9"	9' 6"	9' 6"	8' 2"	8' 8" e	8' 8" e	7' 8"	8' 0" e	8' 0" e	7' 3" e	7' 6" e	7' 6" e	6' 11" e
	24	10' 0"	10' 0"	8' 5"	8' 8" e	8' 8" e	7' 8"	7' 9" e	7' 9" e	7' 1" e	7' 1" e	7' 1" e	6' 8" e	6' 6" e	6' 6" e	6' 4" e	6' 1" e	6' 1" e	6' 1" e
	12	15' 8"	13' 8"	11' 7"	14' 3"	12' 5"	10' 6"	13' 0"	11' 7"	9' 9"	11' 10"	10' 10"	9' 2"	11' 0"	10' 4"	8' 8"	10' 3"	9' 10"	8' 4"
362S137-43	16	14' 3"	12' 5"	10' 6"	12' 7"	11' 4"	9' 6"	11' 3"	10' 6"	8' 10"	10' 3"	9' 10"	8' 4"	9' 6"	9' 5"	7' 11"	8' 11"	8' 11"	7' 7"
	24	11' 10"	10' 10"	9' 2"	10' 3"	9' 10"	8' 4"	9' 2"	9' 2"	7' 9"	8' 4"	8' 4"	7' 3"	7' 9"	7' 9"	6' 11"	7' 3" e	7' 3" e	6' 7"
	12	16' 9"	14' 8"	12' 4"	15' 3"	13' 4"	11' 3"	14' 2"	12' 4"	10' 5"	13' 4"	11' 8"	9' 10"	12' 8"	11' 1"	9' 4"	12' 1"	10' 7"	8' 11"
362S137-54	16	15' 3"	13' 4"	11' 3"	13' 10"	12' 1"	10' 2"	12' 10"	11' 3"	9' 6"	12' 1"	10' 7"	8' 11"	11' 6"	10' 0"	8' 6"	11' 0"	9' 7"	8' 1"
	24	13' 4"	11' 8"	9' 10"	12' 1"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"	10' 7"	9' 3"	7' 9"	10' 0"	8' 9"	7' 5"	9' 7"	8' 5"	7' 1"
	12	17' 11"	15' 8"	13' 2"	16' 3"	14' 3"	12' 0"	15' 1"	13' 2"	11' 2"	14' 3"	12' 5"	10' 6"	13' 6"	11' 10"	9' 11"	12' 11"	11' 4"	9' 6"
362S137-68	16	16' 3"	14' 3"	12' 0"	14' 10"	12' 11"	10' 11"	13' 9"	12' 0"	10' 1"	12' 11"	11' 4"	9' 6"	12' 3"	10' 9"	9' 1"	11' 9"	10' 3"	8' 8"
	24	14' 3"	12' 5"	10' 6"	12' 11"	11' 4"	9' 6"	12' 0"	10' 6"	8' 10"	11' 4"	9' 10"	8' 4"	10' 9"	9' 4"	7' 11"	10' 3"	9' 0"	7' 7"
	12	19' 9"	17' 3"	14' 6"	17' 11"	15' 8"	13' 2"	16' 8"	14' 6"	12' 3"	15' 8"	13' 8"	11' 6"	14' 10"	13' 0"	11' 0"	14' 3"	12' 5"	10' 6"
362S137-97	16	17' 11"	15' 8"	13' 2"	16' 3"	14' 3"	12' 0"	15' 1"	13' 2"	11' 2"	14' 3"	12' 5"	10' 6"	13' 6"	11' 10"	9' 11"	12' 11"	11' 3"	9' 6"
	24	15' 8"	13' 8"	11' 6"	14' 3"	12' 5"	10' 6"	13' 2"	11' 6"	9' 9"	12' 5"	10' 10"	9' 2"	11' 10"	10' 4"	8' 8"	11' 3"	9' 10"	8' 4"
	12	15' 1"	13' 2"	11' 1"	13' 2"	12' 0"	10' 1"	11' 10"	11' 1"	9' 5"	10' 9"	10' 6"	8' 10"	10' 0" e	9' 11" e	8' 5"	9' 4" e	9' 4" e	8' 0"
362S162-33	16	13' 2"	12' 0"	10' 1"	11' 5"	10' 11"	9' 2"	10' 3" e	10' 1" e	8' 6"	9' 4" e	9' 4" e	8' 0"	8' 8" e	8' 8" e	7' 7" e	8' 1" e	8' 1" e	7' 3" e
	24	10' 9"	10' 6"	8' 10"	9' 4" e	9' 4" e	8' 0"	8' 4" e	8' 4" e	7' 5" e	7' 7" e	7' 7" e	7' 0" e	7' 1" e	7' 1" e	6' 8" e	6' 7" e	6' 7" e	6' 4" e
	12	16' 5"	14' 4"	12' 1"	14' 11"	13' 0"	11' 0"	13' 10"	12' 1"	10' 2"	12' 9"	11' 5"	9' 7"	11' 10"	10' 10"	9' 1"	11' 1"	10' 4"	8' 9"
362S162-43	16	14' 11"	13' 0"	11' 0"	13' 6"	11' 10"	10' 0"	12' 1"	11' 0"	9' 3"	11' 1"	10' 4"	8' 9"	10' 3"	9' 10"	8' 3"	9' 7"	9' 5"	7' 11"
	24	12' 9"	11' 5"	9' 7"	11' 1"	10' 4"	8' 9"	9' 11"	9' 7"	8' 1"	9' 0"	9' 0"	7' 7"	8' 4" e	8' 4" e	7' 3"	7' 10" e	7' 10" e	6' 11" e
	12	17' 7"	15' 4"	13' 0"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"	14' 0"	12' 2"	10' 3"	13' 3"	11' 7"	9' 9"	12' 8"	11' 1"	9' 4"
362S162-54	16	16' 0"	14' 0"	11' 9"	14' 6"	12' 8"	10' 8"	13' 6"	11' 9"	9' 11"	12' 8"	11' 1"	9' 4"	12' 1"	10' 6"	8' 11"	11' 6"	10' 1"	8' 6"
	24	14' 0"	12' 2"	10' 3"	12' 8"	11' 1"	9' 4"	11' 9"	10' 3"	8' 8"	11' 1"	9' 8"	8' 2"	10' 6"	9' 2"	7' 9"	10' 1"	8' 10"	7' 5"
	12	18' 10"	16' 5"	13' 10"	17' 1"	14' 11"	12' 7"	15' 11"	13' 10"	11' 8"	14' 11"	13' 1"	11' 0"	14' 2"	12' 5"	10' 6"	13' 7"	11' 10"	10' 0"
362S162-68	16	17' 1"	14' 11"	12' 7"	15' 6"	13' 7"	11' 5"	14' 5"	12' 7"	10' 8"	13' 7"	11' 10"	10' 0"	12' 11"	11' 3"	9' 6"	12' 4"	10' 9"	9' 1"
	24	14' 11"	13' 1"	11' 0"	13' 7"	11' 10"	10' 0"	12' 7"	11' 0"	9' 3"	11' 10"	10' 4"	8' 9"	11' 3"	9' 10"	8' 4"	10' 9"	9' 5"	7' 11"
	12	20' 9"	18' 2"	15' 4"	18' 10"	16' 6"	13' 11"	17' 6"	15' 4"	12' 11"	16' 6"	14' 5"	12' 2"	15' 8"	13' 8"	11' 6"	15' 0"	13' 1"	11' 0"
362S162-97	16	18' 10"	16' 6"	13' 11"	17' 2"	15' 0"	12' 8"	15' 11"	13' 11"	11' 9"	15' 0"	13' 1"	11' 0"	14' 3"	12' 5"	10' 6"	13' 7"	11' 11"	10' 0"
	24	16' 6"	14' 5"	12' 2"	15' 0"	13' 1"	11' 0"	13' 11"	12' 2"	10' 3"	13' 1"	11' 5"	9' 8"	12' 5"	10' 10"	9' 2"	11' 11"	10' 5"	8' 9"

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
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- 4 Listed limiting heights are based on steel properties only.

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- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
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- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

Member	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
Member	o.c.	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
	12	15' 11"	13' 11"	11' 8"	13' 11"	12' 7"	10' 8"	12' 5"	11' 8"	9' 10"	11' 4" e	11' 0" e	9' 3"	10' 6" e	10' 6" e	8' 10"	9' 10" e	9' 10" e	8' 5" 6
362S200-33	16	13' 11"	12' 7"	10' 8"	12' 1"	11' 5"	9' 8"	10' 9" e	10' 8" e	9' 0"	9' 10" e	9' 10" e	8' 5" e	9' 1" e	9' 1" e	8' 0" e	8' 6" e	8' 6" e	7' 8" 6
	24	11' 4" e	11' 0" e	9' 3"	9' 10" e	9' 10" e	8' 5" e	8' 10" e	8' 10" e	7' 10" e	8' 0" e	8' 0" e	7' 4" e	7' 5" e	7' 5" e	7' 0" e	7' 0" e	7' 0" e	6' 8"
	12	17' 4"	15' 2"	12' 9"	15' 9"	13' 9"	11' 7"	14' 8"	12' 9"	10' 9"	13' 8"	12' 0"	10' 2"	12' 8"	11' 5"	9' 8"	11' 10"	10' 11"	9' 3"
362S200-43	16	15' 9"	13' 9"	11' 7"	14' 4"	12' 6"	10' 7"	13' 0"	11' 7"	9' 10"	11' 10"	10' 11"	9' 3"	11' 0"	10' 5"	8' 9"	10' 3"	9' 11"	8' 4"
	24	13' 8"	12' 0"	10' 2"	11' 10"	10' 11"	9' 3"	10' 7"	10' 2"	8' 7"	9' 8" e	9' 7" e	8' 1"	8' 11" e	8' 11" e	7' 8"	8' 5" e	8' 5" e	7' 4"
	12	18' 7"	16' 3"	13' 8"	16' 11"	14' 9"	12' 5"	15' 8"	13' 8"	11' 7"	14' 9"	12' 11"	10' 11"	14' 0"	12' 3"	10' 4"	13' 5"	11' 9"	9' 11
362S200-54	16	16' 11"	14' 9"	12' 5"	15' 4"	13' 5"	11' 4"	14' 3"	12' 5"	10' 6"	13' 5"	11' 9"	9' 11"	12' 9"	11' 2"	9' 5"	12' 2"	10' 8"	9' 0"
	24	14' 9"	12' 11"	10' 11"	13' 5"	11' 9"	9' 11"	12' 5"	10' 11"	9' 2"	11' 9"	10' 3"	8' 8"	11' 2"	9' 9"	8' 2"	10' 8"	9' 4"	7' 10
	12	19' 11"	17' 5"	14' 8"	18' 1"	15' 10"	13' 4"	16' 10"	14' 8"	12' 5"	15' 10"	13' 10"	11' 8"	15' 0"	13' 1"	11' 1"	14' 4"	12' 7"	10' 7
362S200-68	16	18' 1"	15' 10"	13' 4"	16' 5"	14' 4"	12' 1"	15' 3"	13' 4"	11' 3"	14' 4"	12' 7"	10' 7"	13' 8"	11' 11"	10' 1"	13' 1"	11' 5"	9' 7'
	24	15' 10"	13' 10"	11' 8"	14' 4"	12' 7"	10' 7"	13' 4"	11' 8"	9' 10"	12' 7"	11' 0"	9' 3"	11' 11"	10' 5"	8' 9"	11' 5"	10' 0"	8' 5'
	12	22' 0"	19' 3"	16' 3"	20' 0"	17' 6"	14' 9"	18' 7"	16' 3"	13' 8"	17' 6"	15' 3"	12' 11"	16' 7"	14' 6"	12' 3"	15' 11"	13' 11"	11' 8
362S200-97	16	20' 0"	17' 6"	14' 9"	18' 2"	15' 11"	13' 5"	16' 11"	14' 9"	12' 5"	15' 11"	13' 11"	11' 8"	15' 1"	13' 2"	11' 1"	14' 5"	12' 7"	10' 8
	24	17' 6"	15' 3"	12' 11"	15' 11"	13' 11"	11' 8"	14' 9"	12' 11"	10' 10"	13' 11"	12' 1"	10' 3"	13' 2"	11' 6"	9' 9"	12' 7"	11' 0"	9' 3"
	12	18' 4"	16' 0"	13' 6"	16' 7"	14' 6"	12' 3"	15' 5"	13' 6"	11' 4"	14' 2"	12' 8"	10' 8"	13' 1"	12' 1"	10' 2"	12' 3"	11' 6"	9' 9'
362S250-43	16	16' 7"	14' 6"	12' 3"	15' 0"	13' 2"	11' 2"	13' 5"	12' 3"	10' 4"	12' 3"	11' 6"	9' 9"	11' 4"	10' 11"	9' 3"	10' 8" e	10' 6" e	8' 10
	24	14' 2"	12' 8"	10' 8"	12' 3"	11' 6"	9' 9"	11' 0"	10' 8"	9' 0"	10' 0" e	10' 0" e	8' 6"	9' 3" e	9' 3" e	8' 1" e	8' 8" e	8' 8" e	7' 9"
	12	19' 7"	17' 1"	14' 5"	17' 9"	15' 6"	13' 1"	16' 6"	14' 5"	12' 2"	15' 6"	13' 7"	11' 5"	14' 9"	12' 11"	10' 10"	14' 1"	12' 4"	10' 5
362S250-54	16	17' 9"	15' 6"	13' 1"	16' 2"	14' 1"	11' 11"	15' 0"	13' 1"	11' 1"	14' 1"	12' 4"	10' 5"	13' 5"	11' 8"	9' 10"	12' 10"	11' 2"	9' 5"
	24	15' 6"	13' 7"	11' 5"	14' 1"	12' 4"	10' 5"	13' 1"	11' 5"	9' 8"	12' 4"	10' 9"	9' 1"	11' 8"	10' 3"	8' 7"	11' 2"	9' 9"	8' 3"
	12	21' 0"	18' 5"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"	16' 8"	14' 7"	12' 4"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2
362S250-68	16	19' 1"	16' 8"	14' 1"	17' 4"	15' 2"	12' 10"	16' 1"	14' 1"	11' 11"	15' 2"	13' 3"	11' 2"	14' 5"	12' 7"	10' 7"	13' 9"	12' 0"	10' 2
	24	16' 8"	14' 7"	12' 4"	15' 2"	13' 3"	11' 2"	14' 1"	12' 4"	10' 5"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 0"	10' 6"	8' 10
	12	23' 4"	20' 4"	17' 2"	21' 2"	18' 6"	15' 7"	19' 8"	17' 2"	14' 6"	18' 6"	16' 2"	13' 8"	17' 7"	15' 4"	12' 11"	16' 10"	14' 8"	12' 5
362S250-97	16	21' 2"	18' 6"	15' 7"	19' 3"	16' 10"	14' 2"	17' 10"	15' 7"	13' 2"	16' 10"	14' 8"	12' 5"	16' 0"	13' 11"	11' 9"	15' 3"	13' 4"	11' 3
	24	18' 6"	16' 2"	13' 8"	16' 10"	14' 8"	12' 5"	15' 7"	13' 8"	11' 6"	14' 8"	12' 10"	10' 10"	13' 11"	12' 2"	10' 3"	13' 4"	11' 8"	9' 10'

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- 1 Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
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- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\varphi=0$.
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
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- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
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- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

Complies with AISI S100-16 (2020) w/S2-20 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

AA 1	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
Member	o.c.	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
	12	14' 11"	13' 7"	11' 6"	12' 11"	12' 4"	10' 5"	11' 7"	11' 6"	9' 8"	10' 7"	10' 7"	9' 1"	9' 9" e	9' 9" e	8' 8"	9' 2" e	9' 2" e	8' 3" e
400S137-33	16	12' 11"	12' 4"	10' 5"	11' 2"	11' 2"	9' 6"	10' 0" e	10' 0" e	8' 9"	9' 2" e	9' 2" e	8' 3" e	8' 6" e	8' 6" e	7' 10" e	7' 11" e	7' 11" e	7' 6" e
	24	10' 7"	10' 7"	9' 1"	9' 2" e	9' 2" e	8' 3" e	8' 2" e	8' 2" e	7' 8" e	7' 6" e	7' 6" e	7' 3" e	6' 11" e	6' 11" e	6' 10" e	6' 6" e	6' 6" e	6' 6" e
	12	16' 11"	14' 9"	12' 6"	15' 4"	13' 5"	11' 4"	13' 9"	12' 6"	10' 6"	12' 7"	11' 9"	9' 11"	11' 7"	11' 2"	9' 5"	10' 10"	10' 8"	9' 0"
400S137-43	16	15' 4"	13' 5"	11' 4"	13' 4"	12' 2"	10' 4"	11' 11"	11' 4"	9' 7"	10' 10"	10' 8"	9' 0"	10' 1"	10' 1"	8' 6"	9' 5"	9' 5"	8' 2"
	24	12' 7"	11' 9"	9' 11"	10' 10"	10' 8"	9' 0"	9' 9"	9' 9"	8' 4"	8' 10"	8' 10"	7' 10"	8' 3" e	8' 3" e	7' 6"	7' 8" e	7' 8" e	7' 2" e
	12	18' 1"	15' 10"	13' 4"	16' 6"	14' 5"	12' 2"	15' 3"	13' 4"	11' 3"	14' 5"	12' 7"	10' 7"	13' 8"	11' 11"	10' 1"	13' 1"	11' 5"	9' 8"
400S137-54	16	16' 6"	14' 5"	12' 2"	15' 0"	13' 1"	11' 0"	13' 11"	12' 2"	10' 3"	13' 1"	11' 5"	9' 8"	12' 5"	10' 10"	9' 2"	11' 10"	10' 4"	8' 9"
	24	14' 5"	12' 7"	10' 7"	13' 1"	11' 5"	9' 8"	12' 2"	10' 7"	8' 11"	11' 5"	10' 0"	8' 5"	10' 10"	9' 6"	8' 0"	10' 3"	9' 1"	7' 8"
	12	19' 5"	16' 11"	14' 3"	17' 7"	15' 5"	13' 0"	16' 4"	14' 3"	12' 0"	15' 5"	13' 5"	11' 4"	14' 7"	12' 9"	10' 9"	14' 0"	12' 2"	10' 4"
400S137-68	16	17' 7"	15' 5"	13' 0"	16' 0"	14' 0"	11' 9"	14' 10"	13' 0"	10' 11"	14' 0"	12' 2"	10' 4"	13' 3"	11' 7"	9' 9"	12' 8"	11' 1"	9' 4"
	24	15' 5"	13' 5"	11' 4"	14' 0"	12' 2"	10' 4"	13' 0"	11' 4"	9' 7"	12' 2"	10' 8"	9' 0"	11' 7"	10' 2"	8' 7"	11' 1"	9' 8"	8' 2"
	12	21' 4"	18' 8"	15' 9"	19' 5"	16' 11"	14' 3"	18' 0"	15' 9"	13' 3"	16' 11"	14' 10"	12' 6"	16' 1"	14' 1"	11' 10"	15' 5"	13' 5"	11' 4"
400S137-97	16	19' 5"	16' 11"	14' 3"	17' 7"	15' 5"	13' 0"	16' 4"	14' 3"	12' 1"	15' 5"	13' 5"	11' 4"	14' 7"	12' 9"	10' 9"	14' 0"	12' 3"	10' 4"
	24	16' 11"	14' 10"	12' 6"	15' 5"	13' 5"	11' 4"	14' 3"	12' 6"	10' 6"	13' 5"	11' 9"	9' 11"	12' 9"	11' 2"	9' 5"	12' 3"	10' 8"	9' 0"
	12	16' 1"	14' 3"	12' 0"	13' 11"	12' 11"	10' 11"	12' 6"	12' 0"	10' 1"	11' 5" e	11' 4" e	9' 6"	10' 6" e	10' 6" e	9' 1"	9' 10" e	9' 10" e	8' 8" e
400S162-33	16	13' 11"	12' 11"	10' 11"	12' 1"	11' 9"	9' 11"	10' 10" e	10' 10" e	9' 2"	9' 10" e	9' 10" e	8' 8" e	9' 2" e	9' 2" e	8' 3" e	8' 6" e	8' 6" e	7' 10" e
	24	11' 5" e	11' 4" e	9' 6"	9' 10" e	9' 10" e	8' 8" e	8' 10" e	8' 10" e	8' 0" e	8' 1" e	8' 1" e	7' 7" e	7' 5" e	7' 5" e	7' 2" e	7' 0" e	7' 0" e	6' 10" e
	12	17' 9"	15' 6"	13' 1"	16' 1"	14' 1"	11' 10"	14' 10"	13' 1"	11' 0"	13' 6"	12' 3"	10' 4"	12' 6"	11' 8"	9' 10"	11' 8"	11' 2"	9' 5"
400S162-43	16	16' 1"	14' 1"	11' 10"	14' 4"	12' 9"	10' 9"	12' 10"	11' 10"	10' 0"	11' 8"	11' 2"	9' 5"	10' 10"	10' 7"	8' 11"	10' 2"	10' 2"	8' 7"
	24	13' 6"	12' 3"	10' 4"	11' 8"	11' 2"	9' 5"	10' 6"	10' 4"	8' 9"	9' 7" e	9' 7" e	8' 3"	8' 10" e	8' 10" e	7' 10"	8' 3" e	8' 3" e	7' 6" e
	12	19' 0"	16' 7"	14' 0"	17' 3"	15' 1"	12' 9"	16' 0"	14' 0"	11' 10"	15' 1"	13' 2"	11' 1"	14' 4"	12' 6"	10' 7"	13' 8"	12' 0"	10' 1"
400S162-54	16	17' 3"	15' 1"	12' 9"	15' 8"	13' 8"	11' 7"	14' 7"	12' 9"	10' 9"	13' 8"	12' 0"	10' 1"	13' 0"	11' 4"	9' 7"	12' 5"	10' 10"	9' 2"
	24	15' 1"	13' 2"	11' 1"	13' 8"	12' 0"	10' 1"	12' 9"	11' 1"	9' 4"	12' 0"	10' 5"	8' 10"	11' 4"	9' 11"	8' 5"	10' 10"	9' 6"	8' 0"
	12	20' 4"	17' 9"	15' 0"	18' 6"	16' 2"	13' 7"	17' 2"	15' 0"	12' 8"	16' 2"	14' 1"	11' 11"	15' 4"	13' 5"	11' 4"	14' 8"	12' 10"	10' 10"
400S162-68	16	18' 6"	16' 2"	13' 7"	16' 9"	14' 8"	12' 4"	15' 7"	13' 7"	11' 6"	14' 8"	12' 10"	10' 10"	13' 11"	12' 2"	10' 3"	13' 4"	11' 8"	9' 10"
	24	16' 2"	14' 1"	11' 11"	14' 8"	12' 10"	10' 10"	13' 7"	11' 11"	10' 0"	12' 10"	11' 2"	9' 5"	12' 2"	10' 8"	9' 0"	11' 8"	10' 2"	8' 7"
	12	22' 5"	19' 7"	16' 7"	20' 5"	17' 10"	15' 0"	18' 11"	16' 7"	13' 11"	17' 10"	15' 7"	13' 2"	16' 11"	14' 9"	12' 6"	16' 2"	14' 2"	11' 11"
400S162-97	16	20' 5"	17' 10"	15' 0"	18' 6"	16' 2"	13' 8"	17' 2"	15' 0"	12' 8"	16' 2"	14' 2"	11' 11"	15' 5"	13' 5"	11' 4"	14' 9"	12' 10"	10' 10"
	24	17' 10"	15' 7"	13' 2"	16' 2"	14' 2"	11' 11"	15' 0"	13' 2"	11' 1"	14' 2"	12' 4"	10' 5"	13' 5"	11' 9"	9' 11"	12' 10"	11' 3"	9' 6"

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\varphi=0$.
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

Member	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
Member	o.c.	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
	12	17' 0"	15' 0"	12' 7"	14' 9"	13' 7"	11' 6"	13' 2" e	12' 7"	10' 8"	12' 0" e	11' 10" e	10' 0"	11' 1" e	11' 1" e	9' 6" e	10' 5" e	10' 5" e	9' 1"
400S200-33	16	14' 9"	13' 7"	11' 6"	12' 9" e	12' 4" e	10' 5"	11' 5" e	11' 5" e	9' 8"	10' 5" e	10' 5" e	9' 1" e	9' 8" e	9' 8" e	8' 8" e	9' 0" e	9' 0" e	8' 3"
	24	12' 0" e	11' 10" e	10' 0"	10' 5" e	10' 5" e	9' 1" e	9' 4" e	9' 4" e	8' 5" e	8' 6" e	8' 6" e	7' 11" e	7' 10" e	7' 10" e	7' 7" e	7' 4" e	7' 4" e	7' 3"
	12	18' 8"	16' 4"	13' 9"	17' 0"	14' 10"	12' 6"	15' 9"	13' 9"	11' 7"	14' 6"	13' 0"	10' 11"	13' 5"	12' 4"	10' 5"	12' 6"	11' 9"	9' 11
400S200-43	16	17' 0"	14' 10"	12' 6"	15' 4"	13' 6"	11' 4"	13' 9"	12' 6"	10' 7"	12' 6"	11' 9"	9' 11"	11' 7"	11' 2"	9' 5"	10' 10" e	10' 8" e	9'0
	24	14' 6"	13' 0"	10' 11"	12' 6"	11' 9"	9' 11"	11' 3" e	10' 11"	9' 3"	10' 3" e	10' 3" e	8' 8"	9' 6" e	9' 6" e	8' 3" e	8' 10" e	8' 10" e	7' 11
	12	20' 1"	17' 6"	14' 9"	18' 3"	15' 11"	13' 5"	16' 11"	14' 9"	12' 6"	15' 11"	13' 11"	11' 9"	15' 1"	13' 3"	11' 2"	14' 6"	12' 8"	10'8
400S200-54	16	18' 3"	15' 11"	13' 5"	16' 7"	14' 6"	12' 2"	15' 4"	13' 5"	11' 4"	14' 6"	12' 8"	10' 8"	13' 9"	12' 0"	10' 1"	13' 2"	11' 6"	9' 8
	24	15' 11"	13' 11"	11' 9"	14' 6"	12' 8"	10' 8"	13' 5"	11' 9"	9' 11"	12' 8"	11' 0"	9' 4"	12' 0"	10' 6"	8' 10"	11' 6"	10' 0"	8' 5
	12	21' 6"	18' 9"	15' 10"	19' 6"	17' 1"	14' 5"	18' 1"	15' 10"	13' 4"	17' 1"	14' 11"	12' 7"	16' 2"	14' 2"	11' 11"	15' 6"	13' 6"	11'
400S200-68	16	19' 6"	17' 1"	14' 5"	17' 9"	15' 6"	13' 1"	16' 6"	14' 5"	12' 2"	15' 6"	13' 6"	11' 5"	14' 9"	12' 10"	10' 10"	14' 1"	12' 4"	10'
	24	17' 1"	14' 11"	12' 7"	15' 6"	13' 6"	11' 5"	14' 5"	12' 7"	10' 7"	13' 6"	11' 10"	10' 0"	12' 10"	11' 3"	9' 6"	12' 4"	10' 9"	9'
	12	23' 9"	20' 9"	17' 6"	21' 7"	18' 11"	15' 11"	20' 1"	17' 6"	14' 9"	18' 11"	16' 6"	13' 11"	17' 11"	15' 8"	13' 3"	17' 2"	15' 0"	12'
400S200-97	16	21' 7"	18' 11"	15' 11"	19' 8"	17' 2"	14' 6"	18' 3"	15' 11"	13' 5"	17' 2"	15' 0"	12' 8"	16' 4"	14' 3"	12' 0"	15' 7"	13' 7"	11'
	24	18' 11"	16' 6"	13' 11"	17' 2"	15' 0"	12' 8"	15' 11"	13' 11"	11' 9"	15' 0"	13' 1"	11' 0"	14' 3"	12' 5"	10' 6"	13' 7"	11' 11"	10'
	12	19' 8"	17' 2"	14' 6"	17' 11"	15' 8"	13' 2"	16' 5"	14' 6"	12' 3"	15' 0"	13' 8"	11' 6"	13' 10"	13' 0"	10' 11"	13' 0"	12' 5"	10'
400S250-43	16	17' 11"	15' 8"	13' 2"	15' 11"	14' 2"	12' 0"	14' 2"	13' 2"	11' 1"	13' 0"	12' 5"	10' 6"	12' 0" e	11' 9" e	9' 11"	11' 3" e	11' 3" e	9' (
	24	15' 0"	13' 8"	11' 6"	13' 0"	12' 5"	10' 6"	11' 7" e	11' 6" e	9' 9"	10' 7" e	10' 7" e	9' 2" e	9' 10" e	9' 10" e	8' 8" e	9' 2" e	9' 2" e	8' 4
	12	21' 1"	18' 5"	15' 6"	19' 2"	16' 9"	14' 1"	17' 9"	15' 6"	13' 1"	16' 9"	14' 7"	12' 4"	15' 11"	13' 10"	11' 8"	15' 2"	13' 3"	11'
400S250-54	16	19' 2"	16' 9"	14' 1"	17' 5"	15' 2"	12' 10"	16' 2"	14' 1"	11' 11"	15' 2"	13' 3"	11' 2"	14' 5"	12' 7"	10' 8"	13' 10"	12' 1"	10'
	24	16' 9"	14' 7"	12' 4"	15' 2"	13' 3"	11' 2"	14' 1"	12' 4"	10' 5"	13' 3"	11' 7"	9' 9"	12' 7"	11' 0"	9' 3"	12' 1"	10' 6"	8' 1
	12	22' 8"	19' 10"	16' 8"	20' 7"	18' 0"	15' 2"	19' 1"	16' 8"	14' 1"	18' 0"	15' 9"	13' 3"	17' 1"	14' 11"	12' 7"	16' 4"	14' 3"	12'
400S250-68	16	20' 7"	18' 0"	15' 2"	18' 9"	16' 4"	13' 9"	17' 4"	15' 2"	12' 10"	16' 4"	14' 3"	12' 1"	15' 6"	13' 7"	11' 5"	14' 10"	13' 0"	10'
	24	18' 0"	15' 9"	13' 3"	16' 4"	14' 3"	12' 1"	15' 2"	13' 3"	11' 2"	14' 3"	12' 6"	10' 6"	13' 7"	11' 10"	10' 0"	13' 0"	11' 4"	9'
	12	25' 2"	21' 11"	18' 6"	22' 10"	19' 11"	16' 10"	21' 2"	18' 6"	15' 7"	19' 11"	17' 5"	14' 8"	18' 11"	16' 7"	14' 0"	18' 1"	15' 10"	13'
400S250-97	16	22' 10"	19' 11"	16' 10"	20' 9"	18' 1"	15' 3"	19' 3"	16' 10"	14' 2"	18' 1"	15' 10"	13' 4"	17' 3"	15' 0"	12' 8"	16' 6"	14' 5"	12'
	24	19' 11"	17' 5"	14' 8"	18' 1"	15' 10"	13' 4"	16' 10"	14' 8"	12' 5"	15' 10"	13' 10"	11' 8"	15' 0"	13' 2"	11' 1"	14' 5"	12' 7"	10'

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed KM = 0
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

Complies with AISI S100-16 (2020) w/S2-20 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

Member	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
Member	o.c.	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
	12	18' 8"	18' 7"	15' 8"	16' 2" e	16' 2" e	14' 3"	14' 5" e	14' 5" e	13' 3" e	13' 2" e	13' 2" e	12' 5" e	12' 2" e	12' 2" e	11' 10" e	11' 5" e	11' 5" e	11' 4" e
600S137-33	16	16' 2" e	16' 2" e	14' 3"	14' 0" e	14' 0" e	12' 11" e	12' 6" e	12' 6" e	12' 0" e	11' 5" e	11' 5" e	11' 4" e	10' 7" e	10' 7" e	10' 7" e	9' 11" e	9' 11" e	9' 11" e
	24	13' 2" e	13' 2" e	12' 5" e	11' 5" e	11' 5" e	11' 4" e	10' 2" e	10' 2" e	10' 2" e	9' 4" e	9' 4" e	9' 4" e	8' 8" e	8' 8" e	8' 8" e	8' 1" e	8' 1" e	8' 1" e
	12	22' 4"	20' 5"	17' 3"	19' 4"	18' 6"	15' 8"	17' 4"	17' 3"	14' 6"	15' 10"	15' 10"	13' 8"	14' 8"	14' 8"	13' 0"	13' 8" e	13' 8" e	12' 5"
600S137-43	16	19' 4"	18' 6"	15' 8"	16' 9"	16' 9"	14' 2"	15' 0"	15' 0"	13' 2"	13' 8" e	13' 8" e	12' 5"	12' 8" e	12' 8" e	11' 9" e	11' 10" e	11' 10" e	11' 3" e
	24	15' 10"	15' 10"	13' 8"	13' 8" e	13' 8" e	12' 5"	12' 3" e	12' 3" e	11' 6" e	11' 2" e	11' 2" e	10' 10" e	10' 4" e	10' 4" e	10' 4" e	9' 8" e	9' 8" e	9' 8" e
	12	25' 1"	21' 11"	18' 5"	22' 9"	19' 11"	16' 9"	21' 2"	18' 5"	15' 7"	19' 11"	17' 4"	14' 8"	18' 11"	16' 6"	13' 11"	18' 1"	15' 9"	13' 4"
600S137-54	16	22' 9"	19' 11"	16' 9"	20' 8"	18' 1"	15' 3"	19' 2"	16' 9"	14' 2"	18' 1"	15' 9"	13' 4"	16' 11"	15' 0"	12' 8"	15' 10"	14' 4"	12' 1"
	24	19' 11"	17' 4"	14' 8"	18' 1"	15' 9"	13' 4"	16' 4"	14' 8"	12' 4"	14' 11"	13' 9"	11' 8"	13' 10"	13' 1"	11' 1"	12' 11"	12' 6"	10' 7"
	12	26' 10"	23' 5"	19' 9"	24' 5"	21' 4"	18' 0"	22' 8"	19' 9"	16' 8"	21' 4"	18' 7"	15' 8"	20' 3"	17' 8"	14' 11"	19' 4"	16' 11"	14' 3"
600S137-68	16	24' 5"	21' 4"	18' 0"	22' 2"	19' 4"	16' 4"	20' 7"	18' 0"	15' 2"	19' 4"	16' 11"	14' 3"	18' 5"	16' 1"	13' 7"	17' 7"	15' 4"	12' 11"
	24	21' 4"	18' 7"	15' 8"	19' 4"	16' 11"	14' 3"	18' 0"	15' 8"	13' 3"	16' 11"	14' 9"	12' 5"	16' 1"	14' 0"	11' 10"	15' 1"	13' 5"	11' 4"
	12	29' 8"	25' 11"	21' 10"	27' 0"	23' 7"	19' 10"	25' 0"	21' 10"	18' 5"	23' 7"	20' 7"	17' 4"	22' 5"	19' 7"	16' 6"	21' 5"	18' 8"	15' 9"
600S137-97	16	27' 0"	23' 7"	19' 10"	24' 6"	21' 5"	18' 1"	22' 9"	19' 10"	16' 9"	21' 5"	18' 8"	15' 9"	20' 4"	17' 9"	15' 0"	19' 5"	17' 0"	14' 4"
	24	23' 7"	20' 7"	17' 4"	21' 5"	18' 8"	15' 9"	19' 10"	17' 4"	14' 8"	18' 8"	16' 4"	13' 9"	17' 9"	15' 6"	13' 1"	17' 0"	14' 10"	12' 6"
	12	20' 2"	19' 6"	16' 6"	17' 5" e	17' 5" e	15' 0"	15' 7" e	15' 7" e	13' 11" e	14' 3" e	14' 3" e	13' 1" e	13' 2" e	13' 2" e	12' 5" e	12' 4" e	12' 4" e	11' 11" 6
600S162-33	16	17' 5" e	17' 5" e	15' 0"	15' 1" e	15' 1" e	13' 7" e	13' 6" e	13' 6" e	12' 8" e	12' 4" e	12' 4" e	11' 11" e	11' 5" e	11' 5" e	11' 3" e	10' 8" e	10' 8" e	10' 8" e
	24	14' 3" e	14' 3" e	13' 1" e	12' 4" e	12' 4" e	11' 11" e	11' 0" e	11' 0" e	11' 0" e	10' 1" e	10' 1" e	10' 1" e	9' 4" e	9' 4" e	9' 4" e	8' 9" e	8' 9" e	8' 9" e
600S162-33	12	24' 1"	21' 3"	17' 11"	20' 10"	19' 4"	16' 4"	18' 8"	17' 11"	15' 2"	17' 0"	16' 11"	14' 3"	15' 9" e	15' 9" e	13' 6"	14' 9" e	14' 9" e	12' 11"
600S162-43	16	20' 10"	19' 4"	16' 4"	18' 1"	17' 7"	14' 10"	16' 2" e	16' 2" e	13' 9"	14' 9" e	14' 9" e	12' 11"	13' 8" e	13' 8" e	12' 4" e	12' 9" e	12' 9" e	11' 9" e
	24	17' 0"	16' 11"	14' 3"	14' 9" e	14' 9" e	12' 11"	13' 2" e	13' 2" e	12' 0" e	12' 1" e	12' 1" e	11' 4" e	11' 2" e	11' 2" e	10' 9" e	10' 5" e	10' 5" e	10' 3" e
	12	26' 2"	22' 10"	19' 3"	23' 9"	20' 9"	17' 6"	22' 1"	19' 3"	16' 3"	20' 9"	18' 1"	15' 3"	19' 8"	17' 3"	14' 6"	18' 10"	16' 6"	13' 11"
600S162-54	16	23' 9"	20' 9"	17' 6"	21' 7"	18' 10"	15' 11"	20' 0"	17' 6"	14' 9"	18' 10"	16' 6"	13' 11"	17' 11"	15' 8"	13' 2"	17' 0"	15' 0"	12' 7"
	24	20' 9"	18' 1"	15' 3"	18' 10"	16' 6"	13' 11"	17' 6"	15' 3"	12' 11"	16' 1"	14' 5"	12' 2"	14' 10"	13' 8"	11' 6"	13' 11"	13' 1"	11' 0"
	12	28' 0"	24' 6"	20' 8"	25' 6"	22' 3"	18' 9"	23' 8"	20' 8"	17' 5"	22' 3"	19' 5"	16' 5"	21' 2"	18' 5"	15' 7"	20' 3"	17' 8"	14' 11"
600S162-68	16	25' 6"	22' 3"	18' 9"	23' 2"	20' 3"	17' 1"	21' 6"	18' 9"	15' 10"	20' 3"	17' 8"	14' 11"	19' 2"	16' 9"	14' 2"	18' 4"	16' 0"	13' 6"
	24	22' 3"	19' 5"	16' 5"	20' 3"	17' 8"	14' 11"	18' 9"	16' 5"	13' 10"	17' 8"	15' 5"	13' 0"	16' 9"	14' 8"	12' 4"	16' 0"	14' 0"	11' 10"
	12	31' 1"	27' 2"	22' 11"	28' 3"	24' 8"	20' 9"	26' 2"	22' 11"	19' 4"	24' 8"	21' 6"	18' 2"	23' 5"	20' 5"	17' 3"	22' 5"	19' 7"	16' 6"
600S162-97	16	28' 3"	24' 8"	20' 9"	25' 8"	22' 5"	18' 11"	23' 10"	20' 9"	17' 6"	22' 5"	19' 7"	16' 6"	21' 3"	18' 7"	15' 8"	20' 4"	17' 9"	15' 0"
	24	24' 8"	21' 6"	18' 2"	22' 5"	19' 7"	16' 6"	20' 9"	18' 2"	15' 4"	19' 7"	17' 1"	14' 5"	18' 7"	16' 3"	13' 8"	17' 9"	15' 6"	13' 1"

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed KM O
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "F" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

25psf 30psf 40psf Spacing (in) 15psf 20psf 35psf Member L/240 L/360 L/600 12 21' 7" e 17' 3" 16' 8" e 15' 3" e 14' 1" e 13' 2" e 12' 5" e 20' 6" e 18' 8" e 18' 7" e 15' 8" e 16'8" e 14' 7" e 15' 3" e 13' 8" e 14' 1" e 13' 0" e 13' 2" e 11' 4" e 600S200-33 16 18' 8" e 18' 7" e 15' 8" e 16' 2" e 16' 2" e 14' 3" e 14' 6" e 14' 6" e 13'3" e 13' 2" e 13' 2" e 12' 5" e 12'3" e 12'3" e 11' 10" e 11'5" e 11' 5" e 24 15' 3" e 15'3" e 13' 8" e 13' 2" e 13' 2" e 12' 5" e 11' 10" e 11' 10" e 11' 7" e 10' 9" e 10'9" e 10' 9" e 10'0" e 10' 0" e 10'0" e 9'4" e 9' 4" e 9' 4" e 12 25' 7" 22' 4" 18' 10" 22' 4" 20' 4" 17' 2" 19' 11" 18' 10' 15' 11" 18' 3" e 17' 9" e 15' 0" 16' 10" e 16' 10" e 14' 3" 15' 9" e 15' 9" e 13' 7" e 13' 8" e 600S200-43 16 22' 4" 20' 4" 17' 2" 19' 4" 18' 5" 15' 7" 17' 3" e 17' 2" e 14' 5' 15' 9" e 15' 9" e 13' 7" e 14' 7" e 14' 7" e 12' 11" e 13'8" e 12' 4" e 14' 1" e 24 18' 3" e 17' 9" e 15' 0" 15' 9" e 15' 9" e 13' 7" e 14' 1" e 12' 7" e 12' 11" e 12' 11" e 11' 11" e 11' 11" e 11' 11" e 11' 3" e 11' 2" e 11' 2" e 10' 9" e 12 27' 6" 24' 0" 20'3" 24' 11' 21' 10" 18' 5" 23' 2" 20'3" 17' 1" 21' 10" 19' 1" 16' 1" 20'9" 18' 1" 15' 3" 19' 10" 17' 4" 14' 7" 600S200-54 16 24' 11" 21' 10" 18' 5" 22' 8" 19' 10" 16'8" 21' 1" 18' 5" 15' 6" 19' 10" 17' 4" 14' 7' 18' 10" 16' 5" 13' 10' 18' 0" 15'9" 13' 3" 16' 1" 24 21' 10" 19'1" 16' 1" 19' 10" 17' 4" 14' 7" 18' 5" 13'7" 17' 2" 15' 1" 12' 9' 15' 10" 14' 4" 12' 1" 14' 10" 13' 9" 11' 7" 12 29' 6' 25' 9" 21' 9" 26' 9" 23' 5" 19' 9" 24' 10" 21' 9" 18' 4" 23' 5' 20' 5" 17' 3' 22' 3" 19'5" 16' 4" 21' 3" 18' 7" 15'8' 600S200-68 23' 5" 21'3" 17' 11' 22' 7" 16' 8" 21'3" 20' 2" 17'8" 19' 4" 16 26' 9' 19'9" 24' 4" 19'9" 18' 7" 15'8' 14' 11' 16' 10' 14' 3" 24 23' 5' 20' 5" 17' 3" 21'3" 18' 7' 15'8" 19'9" 17'3" 14'6" 18'7' 16' 3" 13'8' 17'8" 15' 5" 13' 0" 16' 10" 14' 9" 12' 5' 12 32' 9' 28' 7" 24' 1" 29' 9" 26' 0" 21' 11' 27' 7" 24' 1" 20' 4" 26' 0' 22' 8" 19' 2" 24' 8" 21' 7" 18' 2" 23' 7" 20' 7" 17' 5' 21' 11' 23' 7" 21' 11' 18' 6" 23' 7' 17' 5' 22' 5" 18' 9" 600S200-97 16 29'9' 26' 0" 27' 0" 19' 11' 25' 1" 20' 7" 19'7" 16'6" 21'5" 15' 10" 24 26' 0' 22' 8" 19' 2" 23' 7" 20' 7" 17'5" 21' 11" 19'2" 16' 2" 20' 7" 18'0" 15' 2" 19' 7" 17' 1" 14' 5" 18' 9" 16' 4" 13' 10" 12 26' 5" 23' 5" 19'9" 22' 11" 21' 3" 17' 11' 20' 6" 19' 9" 16' 8" 18' 8" e 18' 7" e 15' 8" 17' 4" e 17' 4" e 14' 11" e 16' 2" e 16' 2" e 14' 3" e Wall 16 22' 11' 21' 3" 17' 11' 19' 10" e 19' 4" 16' 4" 17' 9" e 17' 9" e 15' 2" 16' 2" e 16' 2" e 14' 3" e 15' 0" e 15' 0" e 14' 0" e 14' 0" e 12' 11" e 600S250-43 13' 6" e Curtain 24 18' 8" e 18' 7" e 15'8" 16' 2" e 16' 2" e 14' 3" e 14' 6" e 14' 6" e 13' 3" e 13' 3" e 13' 3" e 12' 5" e 12' 3" e 12'3" e 11' 10" e 11'5" e 11'5" e 11' 4" e 12 28' 8' 25' 0" 21' 1" 26' 0" 22' 9" 19'2" 24' 2" 21' 1" 17' 10" 22' 9" 19' 10" 16' 9" 21' 7" 18' 10" 15' 11" 20' 8" 18' 1" 15' 3" 19' 7" 600S250-54 16 22' 9" 19' 2" 23' 8" 20'8" 17' 5" 21' 11" 19' 2" 20' 8" 15' 3" 17' 2" 18' 8" 16' 5" 26' 0" 16' 2" 18' 1" 14' 6" 13' 10" Exterior 24 22' 9" 19' 10" 16' 9" 20' 8" 18' 1" 15' 3" 19' 2" 16' 9" 14' 2" 17' 7" 15' 9" 13' 4" 16' 3" 15' 0" 12' 8" 15' 2" e 14' 4" 12' 1" 12 30' 11' 27' 0" 22' 9" 28' 1" 24' 6" 20'8" 26' 1" 22' 9" 19' 2" 24' 6" 21' 5" 18' 1" 23' 4" 20' 4" 17' 2' 22' 3" 19'6" 16' 5' 600S250-68 16 28' 1" 24' 6" 20'8" 25' 6" 22' 3" 18' 10' 23' 8" 20'8" 17' 5" 22' 3" 19'6" 16' 5" 21' 2" 18' 6" 15' 7" 20'3" 17'8" 14' 11' 24 21'5" 18' 1" 22' 3" 19'6" 16' 5" 20' 8" 15'3" 19' 6" 17'0" 14' 4" 18' 6" 16' 2" 17' 8" 15' 5" 13' 0" 24' 6" 18' 1" 13'7" 12 34' 4" 30'0" 25' 4" 31'3" 27' 3" 23' 0" 29' 0" 25' 4" 21' 4" 27' 3" 23' 10' 20' 1" 25' 11" 22' 8" 19' 1" 24' 9" 21'8" 18' 3" 16 23' 0" 19' 5' 24' 9' 21'8" 23' 6" 20' 7" 17' 4" 22' 6" 31'3" 27' 3" 28' 4" 24' 9" 20' 11' 26' 4" 23' 0" 18' 3' 19'8" 16' 7' 600S250-97 21' 8" 21'8" 24 27' 3" 23' 10" 20' 1" 24' 9" 18'3" 23' 0" 20' 1" 16' 11" 18' 11' 15' 11' 20' 7" 18'0" 15' 2" 19'8" 17' 2" 14'6" 12 29' 3' 25' 7" 21' 7" 26' 7" 23' 3" 19' 7" 24' 8" 21' 7" 18' 2" 23' 3' 20' 3" 17' 1' 22' 1" 19' 3" 16' 3" 21' 1" 18' 5" 15' 7' 21' 1' 600S300-54 16 26' 7' 23' 3" 19'7' 24' 2" 21' 1" 17' 10' 22' 5" 19'7' 16' 6" 18' 5" 15' 7' 20' 1' 17'6" 14'9" 18' 11" 16'9" 14' 2' 24 20'3" 17' 1" 19'7" 14' 5" 15' 4" 12' 11' 14' 8" 12' 4" 23' 3' 21' 1" 18' 5" 15'7" 17' 1" 17' 10" 16' 1' 13'7' 16'6" 15' 6" e 12 31' 11' 27' 11" 23' 6" 29' 0" 25' 4" 21'5" 26' 11" 23' 6" 19' 10" 25' 4" 22' 2" 18'8" 24' 1" 21'0" 17'9" 23' 0" 20' 2" 17' 0' 600S300-68 16 29' 0' 25' 4" 21'5" 26' 4" 23' 0" 19'5" 24' 6" 21'5" 18' 0" 23' 0" 20' 2" 17' 0" 21' 11" 19'1" 16' 1" 20' 11" 18' 3" 15' 5" 24 25' 4' 22' 2" 18' 8" 20' 2" 17' 0" 21'5" 18' 8" 20' 2" 17' 7" 19' 1" 14' 1" 18' 1" 16' 0" 23'0" 15'9" 14' 10" 16' 8" 13'6' 30' 1" 28' 4" 12 35' 8' 31' 2" 26' 4" 32' 5" 28' 4" 23' 11' 26' 4" 22' 2" 24' 9" 20' 10" 26' 11' 23' 6" 19' 10" 25' 9" 22' 6" 19'0" 600S300-97 16 32' 5' 28' 4" 23' 11' 29' 6" 25' 9" 21'8" 27' 4" 23' 11' 20' 2" 25' 9" 22' 6" 19'0" 24' 5" 21'4" 18'0" 23' 5" 20' 5" 17' 3" 28' 4" 24' 9" 20' 10" 22' 6" 19'0" 23' 11" 20' 10" 17' 7" 22' 6' 19'8" 16'7" 21'4" 18'8" 15' 9" 20' 5" 17' 10" 15' 1"

See page 27 for clarification of code developed wind pressures prior to using this table

Notes:

Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.

CURTAIN WALL HEIGHTS

- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed Kφ = 0.
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil. 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

Complies with AISI S100-16 (2020) w/S2-20 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

A4 1	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
Member	o.c.	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
	12	21' 5" e	21' 5" e	19' 7" e	18' 6" e	18' 6" e	17' 9" e	16' 7" e	16' 7" e	16' 6" e	15' 1" e	15' 1" e	15' 1" e	14' 0" e	14' 0" e	14' 0" e	13' 1" e	13' 1" e	13' 1" e
800S137-331	16	18' 6" e	18' 6" e	17' 9" e	16' 0" e	16' 0" e	16' 0" e	14' 4" e	14' 4" e	14' 4" e	13' 1" e	13' 1" e	13' 1" e	12' 2" e	12' 2" e	12' 2" e	11' 4" e	11' 4" e	11' 4" e
	24	15' 1" e	15' 1" e	15' 1" e	13' 1" e	13' 1" e	13' 1" e	11' 9" e	11' 9" e	11' 9" e	10' 8" e	10' 8" e	10' 8" e	9' 11" e	9' 11" e	9' 11" e	9' 3" e	9' 3" e	9' 3" e
	12	25' 11"	25' 6"	21' 6"	22' 5"	22' 5"	19' 7"	20' 1" e	20' 1" e	18' 2"	18' 4" e	18' 4" e	17' 1" e	16' 11" e	16' 11" e	16' 3" e	15' 10" e	15' 10" e	15' 6" e
800S137-43	16	22' 5"	22' 5"	19' 7"	19' 5" e	19' 5" e	17' 9"	17' 5" e	17' 5" e	16' 6" e	15' 10" e	15' 10" e	15' 6" e	14' 8" e	14' 8" e	14' 8" e	13' 9" e	13' 9" e	13' 9" e
	24	18' 4" e	18' 4" e	17' 1" e	15' 10" e	15' 10" e	15' 6" e	14' 2" e	14' 2" e	14' 2" e	12' 11" e	12' 11" e	12' 11" e	12' 0" e	12' 0" e	12' 0" e	11' 3" e	11' 3" e	11' 3" e
	12	31' 5"	27' 6"	23' 2"	28' 7"	24' 11"	21' 1"	26' 6"	23' 2"	19' 6"	24' 6"	21' 10"	18' 5"	22' 8"	20' 8"	17' 6"	21' 3"	19' 10"	16' 8"
800S137-54	16	28' 7"	24' 11"	21' 1"	25' 11"	22' 8"	19' 1"	23' 3"	21' 1"	17' 9"	21' 3"	19' 10"	16' 8"	19' 8"	18' 10"	15' 10"	18' 5"	18' 0"	15' 2"
	24	24' 6"	21' 10"	18' 5"	21' 3"	19' 10"	16' 8"	19' 0"	18' 5"	15' 6"	17' 4"	17' 4"	14' 7"	16' 0"	16' 0"	13' 10"	15' 0" e	15' 0" e	13' 3"
	12	34' 0"	29' 8"	25' 0"	30' 11"	27' 0"	22' 9"	28' 8"	25' 0"	21' 1"	27' 0"	23' 7"	19' 10"	25' 7"	22' 5"	18' 11"	24' 6"	21' 5"	18' 1"
800S137-68	16	30' 11"	27' 0"	22' 9"	28' 1"	24' 6"	20' 8"	26' 0"	22' 9"	19' 2"	24' 6"	21' 5"	18' 1"	23' 1"	20' 4"	17' 2"	21' 7"	19' 5"	16' 5"
	24	27' 0"	23' 7"	19' 10"	24' 6"	21' 5"	18' 1"	22' 4"	19' 10"	16' 9"	20' 5"	18' 8"	15' 9"	18' 10"	17' 9"	15' 0"	17' 8"	17' 0"	14' 4"
	12	37' 9"	32' 11"	27' 10"	34' 3"	29' 11"	25' 3"	31' 10"	27' 10"	23' 5"	29' 11"	26' 2"	22' 1"	28' 5"	24' 10"	20' 11"	27' 2"	23' 9"	20' 1"
800S137-97	16	34' 3"	29' 11"	25' 3"	31' 2"	27' 2"	22' 11"	28' 11"	25' 3"	21' 4"	27' 2"	23' 9"	20' 1"	25' 10"	22' 7"	19' 0"	24' 9"	21' 7"	18' 3"
	24	29' 11"	26' 2"	22' 1"	27' 2"	23' 9"	20' 1"	25' 3"	22' 1"	18' 7"	23' 9"	20' 9"	17' 6"	22' 7"	19' 9"	16' 8"	21' 7"	18' 10"	15' 11"
	12	23' 4" e	23' 4" e	20' 4" e	20' 2" e	20' 2" e	18' 6" e	18' 1" e	18' 1" e	17' 2" e	16' 6" e	16' 6" e	16' 2" e	15' 3" e	15' 3" e	15' 3" e	14' 3" e	14' 3" e	14' 3" e
800S162-331	16	20' 2" e	20' 2" e	18' 6" e	17' 6" e	17' 6" e	16' 10" e	15' 8" e	15' 8" e	15' 7" e	14' 3" e	14' 3" e	14' 3" e	13' 3" e	13' 3" e	13' 3" e	12' 4" e	12' 4" e	12' 4" e
	24	16' 6" e	16' 6" e	16' 2" e	14' 3" e	14' 3" e	14' 3" e	12' 9" e	12' 9" e	12' 9" e	11' 8" e	11' 8" e	11' 8" e	10' 9" e	10' 9" e	10' 9" e	10' 1" e	10' 1" e	10' 1" e
	12	28' 1"	26' 7"	22' 5"	24' 4"	24' 2"	20' 4"	21' 9" e	21' 9" e	18' 11"	19' 10" e	19' 10" e	17' 9" e	18' 4" e	18' 4" e	16' 11" e	17' 2" e	17' 2" e	16' 2" e
800S162-43	16	24' 4"	24' 2"	20' 4"	21' 1" e	21' 1" e	18' 6"	18' 10" e	18' 10" e	17' 2" e	17' 2" e	17' 2" e	16' 2" e	15' 11" e	15' 11" e	15' 4" e	14' 11" e	14' 11" e	14' 8" e
	24	19' 10" e	19' 10" e	17' 9" e	17' 2" e	17' 2" e	16' 2" e	15' 4" e	15' 4" e	15' 0" e	14' 0" e	14' 0" e	14' 0" e	13' 0" e	13' 0" e	13' 0" e	12' 2" e	12' 2" e	12' 2" e
	12	32' 8"	28' 7"	24' 1"	29' 9"	25' 11"	21' 11"	27' 7"	24' 1"	20' 4"	25' 11"	22' 8"	19' 1"	24' 6"	21' 6"	18' 2"	22' 11"	20' 7"	17' 4"
800S162-54	16	29' 9"	25' 11"	21' 11"	27' 0"	23' 7"	19' 11"	25' 1"	21' 11"	18' 6"	22' 11"	20' 7"	17' 4"	21' 3"	19' 7"	16' 6"	19' 10"	18' 9"	15' 9"
	24	25' 11"	22' 8"	19' 1"	22' 11"	20' 7"	17' 4"	20' 6"	19' 1"	16' 2"	18' 9"	18' 0"	15' 2"	17' 4" e	17' 1" e	14' 5"	16' 2" e	16' 2" e	13' 9"
	12	35' 4"	30' 10"	26' 0"	32' 1"	28' 1"	23' 8"	29' 10"	26' 0"	22' 0"	28' 1"	24' 6"	20' 8"	26' 8"	23' 3"	19' 8"	25' 6"	22' 3"	18' 9"
800S162-68	16	32' 1"	28' 1"	23' 8"	29' 2"	25' 6"	21' 6"	27' 1"	23' 8"	19' 11"	25' 6"	22' 3"	18' 9"	24' 3"	21' 2"	17' 10"	23' 2"	20' 3"	17' 1"
	24	28' 1"	24' 6"	20' 8"	25' 6"	22' 3"	18' 9"	23' 8"	20' 8"	17' 5"	21' 11"	19' 5"	16' 5"	20' 4"	18' 6"	15' 7"	19' 0"	17' 8"	14' 11"
	12	39' 3"	34' 4"	28' 11"	35' 8"	31' 2"	26' 4"	33' 2"	28' 11"	24' 5"	31' 2"	27' 3"	23' 0"	29' 7"	25' 11"	21' 10"	28' 4"	24' 9"	20' 11"
800S162-97	16	35' 8"	31' 2"	26' 4"	32' 5"	28' 4"	23' 11"	30' 1"	26' 4"	22' 2"	28' 4"	24' 9"	20' 11"	26' 11"	23' 6"	19' 10"	25' 9"	22' 6"	19' 0"
	24	31' 2"	27' 3"	23' 0"	28' 4"	24' 9"	20' 11"	26' 4"	23' 0"	19' 5"	24' 9"	21' 7"	18' 3"	23' 6"	20' 6"	17' 4"	22' 6"	19' 8"	16' 7"

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed KM O
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

20psf 25psf 30psf 40psf Spacing (in) 15psf 35psf Member L/240 L/360 L/600 12 25' 1" e 25' 1" e 21' 8" e 21' 9" e 19' 5" e 19' 5" e 17' 9" e 17' 3" e 16' 5" e 16' 5" e 16' 4" e 15' 4" e 15' 4" e 21'9" e 19'9" e 18' 4" e 17' 9" e 15' 4" e 21' 9" e 13' 4" e 800S200-33 16 21' 9" e 19'9" e 18' 10" e 18' 10" e 17' 11" e 16' 10" e 16' 10" e 16'8" e 15' 4" e 15' 4" e 15' 4" e 14' 3" e 14' 3" e 14' 3" e 13' 4" e 13' 4" e 24 17' 9" e 17' 9" e 17' 3" e 15' 4" e 15' 4" e 15' 4" e 13' 9" e 13' 9" e 13' 9" e 12' 6" e 12'6" e 12'6" e 11' 7" e 11'7" e 11'7" e 10' 10" e 10' 10" e 10' 10" e 12 30' 1" 28' 1" 23' 8" 26' 1" e 25' 6" e 21'6" 23' 4" e 23' 4" e 19' 11" e 21' 4" e 21' 4" e 18' 9" e 19' 9" e 19'9" e 17' 10" e 18' 5" e 18' 5" e 17' 1" e 17' 1" e 16' 0" e 800S200-43 16 26' 1" e 25' 6" e 21'6" 22' 7" e 22' 7" e 19' 6" e 20' 2" e 20' 2" e 18' 2" e 18' 5" e 18' 5" e 17' 1" e 17' 1" e 16' 2" e 16' 0" e 15' 6" e 17' 1" e 24 21' 4" e 21' 4" e 18' 9" e 18' 5" e 18' 5" e 16' 6" e 16'6" e 15' 10" e 15' 1" e 15' 1" e 14' 11" e 13' 11" e 13' 11" e 13' 11" e 13' 1" e 13' 1" e 13' 1" e 12 34' 6" 30' 2" 25' 5" 31' 4" 27' 5" 23' 1" 29' 1" 25' 5" 21'5" 27' 5" 23' 11" 20' 2" 26' 0" 22' 9" 19'2" 24' 7" 21'9" 18' 4" 800S200-54 16 31' 4" 27' 5" 23' 1" 28' 6" 24' 10" 21'0" 26' 5" 23' 1" 19'6" 24' 7" 21'9" 18' 4" 22' 9" 20'8" 17' 5" 21'3" 19'9" 16'8" 20' 1" e 17' 4" e 24 27' 5" 23' 11" 20' 2" 24' 7" 21'9" 18'4" 22' 0" 20' 2" 17' 0" 19'0" 16'0" 18' 7" e 18' 0" e 15' 2" 17' 3" e 14' 7" e 12 37' 1' 32' 4" 27' 4" 33' 8" 29' 5" 24' 10' 31' 3" 27' 4' 23' 0" 29' 5" 25' 8" 21'8" 27' 11' 24' 5" 20' 7" 26' 9" 23' 4" 19'8' 22' 2" 800S200-68 16 29' 5" 20' 11" 23' 4" 19'8" 25' 4" 24' 3" 21' 2" 33'8" 24' 10" 30' 7" 26' 9" 22' 6" 28' 5" 24' 10' 26' 9' 18'8" 17' 11" 24' 10" 24 29'5' 25'8" 21'8" 26'9" 23' 4" 19'8" 21'8' 18'3" 23' 4" 20' 5" 17' 2' 21'8" 19' 4" 16' 4" 20'3' 18' 6" 15' 7' 12 41' 2" 36' 0" 30' 4" 37' 5" 32' 8' 27' 7" 34' 9" 30' 4' 25' 7" 32' 8' 28' 7" 24' 1' 31' 1' 27' 2" 22' 11' 29' 9" 25' 11' 21' 11" 32' 8" 27' 7' 29' 9" 31' 7" 27' 7' 23' 3" 29' 9' 21' 11' 27' 0" 800S200-97 16 37' 5" 34' 0" 25' 1" 25' 11" 28' 3" 24' 8" 20' 10' 23' 7" 19' 11" 32' 8" 28' 7" 24' 1" 29' 9" 25' 11" 21' 11" 27' 7" 24' 1' 20' 4" 25' 11" 22' 8" 19' 1" 24' 8" 21'6" 18' 2" 23' 7" 20' 7" 24 17' 5" 12 30' 11" 29' 3" 24' 8" 26' 9" e 26' 7" e 22' 5" 23' 11" e 23' 11" e 20' 10" e 21' 10" e 21' 10" e 19' 7" e 20' 3" e 20' 3" e 18' 7" e 18' 11" e 18' 11" e 17' 10" e Wall 16 26' 7" e 22' 5" 23' 2" e 23' 2" e 20' 4" e 20' 9" e 18' 11" e 17' 10" e 17' 6" e 17' 6" e 16' 11" e 16' 5" e 16' 2" e 800S250-43 26' 9" e 20' 9" e 18' 11" e 18' 11" e 16' 5" e 21' 10" e 24 21' 10" e 19' 7" e 18' 11" e 18' 11" e 17' 10" e 16' 11" e 16' 11" e 16' 6" e 15' 5" e 15' 5" e 15' 5" e 14' 4" e 14' 4" e 14' 4" e 13' 5" e 13' 5" e 13' 5" e 12 35' 10' 31' 4" 26' 5" 32' 7" 28' 5" 24' 0" 30'3" 26' 5' 22' 3" 28' 5" 24' 10' 21' 0" 26' 11' 23' 7" 19' 11 25' 2" 22' 7" 19' 1" 800S250-54 16 32' 7" 28' 5" 24' 0" 29' 7" 25' 10" 21' 10' 27' 6" 20' 3" 25' 2" 19' 1" 23' 3" 21'5" 18' 1" 21' 9" e 20' 6" 17' 4" 24' 0" 22' 7" 24 28' 5' 24' 10' 21' 0" 25' 2" 22' 7" 19' 1" 22' 6" 21' 0" 17' 8" 20' 6" e 16' 8" 19' 0" e 18' 9" e 15' 10' 17' 9" e 17' 9" e 15' 1" e 19'9" e 30' 8" 29' 2" 12 38' 8' 33' 9" 28' 6" 35' 1" 30'8" 25' 10' 32' 7" 28' 6" 24' 0" 26' 10' 22' 7" 25' 5" 21'6" 27' 10" 24' 4" 20'6" 800S250-68 16 35' 1" 30'8" 25' 10" 31' 11" 27' 10" 23'6" 29' 7" 25' 10' 21' 10" 27' 10" 24' 4" 20'6" 26' 6" 23' 1" 19'6" 25' 4" 22' 1" 18' 8" 30' 8' 26' 10' 22' 7" 27' 10" 24' 4" 20' 6" 25' 10" 19' 1" 24' 0" 21'3" 17' 11" 22' 3" 20' 2" 20' 10" 19' 4" 24 22' 7" 17' 0" 16' 4" 12 43' 1" 37' 7" 31'9" 39' 2" 34' 2" 28' 10' 36' 4" 31'9" 26' 9" 34' 2" 29' 10" 25' 2" 32' 6" 28' 4" 23' 11" 31' 1" 27' 2" 22' 11" 16 34' 2" 28' 10' 31' 1" 24' 4" 31' 1" 22' 11" 21'9" 24' 8" 39' 2" 35' 7" 26' 2" 33' 0" 28' 10' 27' 2" 29' 6" 25' 9" 28' 3" 20' 9" 800S250-97 28' 10" 24 34' 2" 29' 10" 25' 2" 31'1" 27' 2" 22' 11" 25' 2" 21'3" 27' 2" 23'8" 20'0" 25' 9" 22' 6" 19'0" 24' 8" 21'6" 18' 2" 12 36' 7" 32' 0" 27' 0" 33' 3" 29' 1" 24' 6" 30' 11" 27' 0" 22' 9" 29' 1" 25' 5" 21'5" 27' 3" 24' 1" 20' 4" 25' 6" 23' 1" 19' 5" 26' 5' 800S300-54 16 33' 3' 29' 1" 24' 6" 30'3" 22' 3" 27' 11" 24' 6' 20'8" 25' 6' 23' 1' 19'5' 23' 7' 21' 11" 18' 6' 22' 1" e 20' 11' 17'8' 25' 5" 23' 1" 22' 10" 21'5' 16' 2" 18'0" e 24 29' 1' 21'5" 25' 6" 19'5" 18' 1" 20' 10" e 20' 2" e 17'0" 19'3" e 19'2" e 18' 0" e 15' 5" e 12 39' 9' 34' 9" 29' 4" 36' 2" 31' 7" 26' 8" 33' 7" 29' 4' 24' 9" 31' 7" 27' 7" 23' 3" 30'0" 26' 2" 22' 1" 28' 8" 25' 1" 21'2" 800S300-68 16 36' 2" 31'7" 26' 8" 32' 10" 28' 8" 24' 2" 30'6" 26' 8' 22' 6" 28' 8" 25' 1" 21'2" 27' 3" 23' 10" 20' 1" 25' 11" 22' 9" 19'2" 24 31'7" 27' 7" 25' 1" 21' 2" 26' 8" 19' 7" 24' 5' 18' 6" 20' 10" 17' 6" 21' 2" 19' 11' 23' 3" 28' 8" 23' 3' 21' 11' 22' 7" 16' 9' 35' 4" 33' 7" 12 44' 7" 38' 11' 32' 10" 40' 6" 35' 4" 29' 10" 37' 7" 32' 10" 27' 8" 30' 11" 26' 1" 29' 4" 24' 9" 32' 2" 28' 1" 23' 8" 800S300-97 16 40' 6" 35' 4" 29' 10" 36' 9" 32' 2" 27' 1" 34' 2" 29' 10" 25' 2" 32' 2" 28' 1' 23' 8" 30' 6" 26' 8" 22' 6" 29' 2" 25' 6" 21'6" 35' 4" 30' 11' 26' 1" 28' 1' 23' 8" 29' 10" 26' 1" 22' 0" 28' 1" 24' 6" 20'8" 26' 8" 23' 4" 19'8" 25' 6" 22' 3" 18' 10"

See page 27 for clarification of code developed wind pressures prior to using this table

Notes:

Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.

CURTAIN WALL HEIGHTS

- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed Kφ = 0.
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil. 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

Complies with AISI S100-16 (2020) w/S2-20 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
Member	o.c.	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
	12	31' 2" e	31' 2" e	26' 7"	27' 0" e	27' 0" e	24' 2" e	24' 1" e	24' 1" e	22' 5" e	22' 0" e	22' 0" e	21' 1" e	20' 5" e	20' 5" e	20' 1" e	19' 1" e	19' 1" e	19' 1"
1000S162-431	16	27' 0" e	27' 0" e	24' 2" e	23' 4" e	23' 4" e	21' 11" e	20' 11" e	20' 11" e	20' 4" e	19' 1" e	19' 1" e	19' 1" e	17' 8" e	17' 8" e	17' 8" e	16' 6" e	16' 6" e	16' 6"
	24	22' 0" e	22' 0" e	21' 1" e	19' 1" e	19' 1" e	19' 1" e	17' 1" e	17' 1" e	17' 1" e	15' 7" e	15' 7" e	15' 7" e	14' 5" e	14' 5" e	14' 5" e	13' 6" e	13' 6" e	13' 6"
	12	38' 10"	33' 11"	28' 7"	35' 4"	30' 10"	26' 0"	32' 3"	28' 7"	24' 2"	29' 5"	26' 11"	22' 9"	27' 3"	25' 7"	21' 7"	25' 6"	24' 6"	20' 8
1000S162-54	16	35' 4"	30' 10"	26' 0"	31' 2"	28' 0"	23' 8"	27' 11"	26' 0"	21' 11"	25' 6"	24' 6"	20' 8"	23' 7" e	23' 3" e	19' 7"	22' 1" e	22' 1" e	18'
	24	29' 5"	26' 11"	22' 9"	25' 6"	24' 6"	20' 8"	22' 9" e	22' 9" e	19' 2"	20' 10" e	20' 10" e	18' 0" e	19' 3" e	19' 3" e	17' 2" e	18' 0" e	18' 0" e	16' 5
	12	42' 2"	36' 10"	31' 1"	38' 3"	33' 5"	28' 2"	35' 6"	31' 1"	26' 2"	33' 5"	29' 3"	24' 8"	31' 9"	27' 9"	23' 5"	30' 1"	26' 6"	22' 5
1000S162-68	16	38' 3"	33' 5"	28' 2"	34' 9"	30' 5"	25' 8"	32' 3"	28' 2"	23' 9"	30' 1"	26' 6"	22' 5"	27' 10"	25' 3"	21' 3"	26' 0"	24' 1"	20' 4
	24	33' 5"	29' 3"	24' 8"	30' 1"	26' 6"	22' 5"	26' 11"	24' 8"	20' 9"	24' 6"	23' 2"	19' 7"	22' 9"	22' 0"	18' 7"	21' 3" e	21' 1" e	17' 9
	12	47' 4"	41' 4"	34' 10"	43' 0"	37' 7"	31' 8"	39' 11"	34' 10"	29' 5"	37' 7"	32' 10"	27' 8"	35' 8"	31' 2"	26' 3"	34' 1"	29' 10"	25'
1000S162-97	16	43' 0"	37' 7"	31' 8"	39' 1"	34' 1"	28' 9"	36' 3"	31' 8"	26' 9"	34' 1"	29' 10"	25' 2"	32' 5"	28' 4"	23' 11"	31' 0"	27' 1"	22' 1
	24	37' 7"	32' 10"	27' 8"	34' 1"	29' 10"	25' 2"	31' 8"	27' 8"	23' 4"	29' 10"	26' 0"	22' 0"	28' 4"	24' 9"	20' 10"	27' 1"	23' 8"	19' 1
	12	33' 8" e	33' 0" e	27' 10"	29' 2" e	29' 2" e	25' 3" e	26' 1" e	26' 1" e	23' 5" e	23' 10" e	23' 10" e	22' 1" e	22' 0" e	22' 0" e	21' 0" e	20' 7" e	20' 7" e	20' 1
1000S200-431	16	29' 2" e	29' 2" e	25' 3" e	25' 3" e	25' 3" e	22' 11" e	22' 7" e	22' 7" e	21' 4" e	20' 7" e	20' 7" e	20' 1" e	19' 1" e	19' 1" e	19' 1" e	17' 10" e	17' 10" e	17' 1
	24	23' 10" e	23' 10" e	22' 1" e	20' 7" e	20' 7" e	20' 1" e	18' 5" e	18' 5" e	18' 5" e	16' 10" e	16' 10" e	16' 10" e	15' 7" e	15' 7" e	15' 7" e	14' 7" e	14' 7" e	14' 7
	12	40' 8"	35' 6"	30' 0"	36' 11"	32' 3"	27' 3"	34' 4"	30' 0"	25' 3"	31' 9"	28' 2"	23' 9"	29' 4"	26' 9"	22' 7"	27' 6" e	25' 7"	21'
1000S200-54	16	36' 11"	32' 3"	27' 3"	33' 7"	29' 4"	24' 9"	30' 1"	27' 3"	23' 0"	27' 6" e	25' 7"	21' 7"	25' 5" e	24' 4" e	20' 6"	23' 9" e	23' 3" e	19' 8
	24	31' 9"	28' 2"	23' 9"	27' 6" e	25' 7"	21' 7"	24' 7" e	23' 9" e	20' 1"	22' 5" e	22' 5" e	18' 10" e	20' 9" e	20' 9" e	17' 11" e	19' 5" e	19' 5" e	17' 2
	12	44' 0"	38' 5"	32' 5"	40' 0"	34' 11"	29' 6"	37' 2"	32' 5"	27' 4"	34' 11"	30' 6"	25' 9"	33' 2"	29' 0"	24' 5"	31' 9"	27' 9"	23'
1000S200-68	16	40' 0"	34' 11"	29' 6"	36' 4"	31' 9"	26' 9"	33' 9"	29' 6"	24' 10"	31' 9"	27' 9"	23' 5"	29' 11"	26' 4"	22' 3"	27' 11"	25' 2"	21'
	24	34' 11"	30' 6"	25' 9"	31' 9"	27' 9"	23' 5"	28' 10"	25' 9"	21' 9"	26' 4"	24' 3"	20' 5"	24' 5" e	23' 0"	19' 5"	22' 10" e	22' 0" e	18'
	12	49' 5"	43' 2"	36' 5"	44' 11"	39' 3"	33' 1"	41' 8"	36' 5"	30' 9"	39' 3"	34' 3"	28' 11"	37' 3"	32' 7"	27' 5"	35' 8"	31' 2"	26'
1000S200-97	16	44' 11"	39' 3"	33' 1"	40' 10"	35' 8"	30' 1"	37' 10"	33' 1"	27' 11"	35' 8"	31' 2"	26' 3"	33' 10"	29' 7"	24' 11"	32' 5"	28' 3"	23' 1
	24	39' 3"	34' 3"	28' 11"	35' 8"	31' 2"	26' 3"	33' 1"	28' 11"	24' 5"	31' 2"	27' 2"	22' 11"	29' 7"	25' 10"	21' 9"	28' 3"	24' 9"	20' 1

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed KM O
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil. 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

	AA I	Spacing (in)		15psf			20psf			25psf			30psf			35psf			40psf	
	Member	o.c.	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
		12	34' 8" e	34' 8" e	29' 5"	30' 0" e	30' 0" e	26' 9" e	26' 10" e	26' 10" e	24' 10" e	24' 6" e	24' 6" e	23' 4" e	22' 8" e	22' 8" e	22' 2" e	21' 3" e	21' 3" e	21' 3" e
	1000S250-43 ¹	16	30' 0" e	30' 0" e	26' 9" e	26' 0" e	26' 0" e	24' 3" e	23' 3" e	23' 3" e	22' 7" e	21' 3" e	21' 3" e	21' 3" e	19' 8" e	19' 8" e	19' 8" e	18' 4" e	18' 4" e	18' 4" e
		24	24' 6" e	24' 6" e	23' 4" e	21' 3" e	21' 3" e	21' 3" e	19' 0" e	19' 0" e	19' 0" e	17' 4" e	17' 4" e	17' 4" e	16' 0" e	16' 0" e	16' 0" e	15' 0" e	15' 0" e	15' 0" e
		12	42' 11"	37' 6"	31' 7"	39' 0"	34' 1"	28' 9"	35' 8"	31' 7"	26' 8"	32' 7"	29' 9"	25' 1"	30' 2" e	28' 3"	23' 10"	28' 3" e	27' 0" e	22' 10"
	1000S250-54	16	39' 0"	34' 1"	28' 9"	34' 7"	30' 11"	26' 1"	30' 11"	28' 9"	24' 3"	28' 3" e	27' 0" e	22' 10"	26' 2" e	25' 8" e	21' 8"	24' 5" e	24' 5" e	20' 9" e
80	•	24	32' 7"	29' 9"	25' 1"	28' 3" e	27' 0" e	22' 10"	25' 3" e	25' 1" e	21' 2" e	23' 1" e	23' 1" e	19' 11" e	21' 4" e	21' 4" e	18' 11" e	19' 11" e	19' 11" e	18' 1" e
٠Ē		12	46' 2"	40' 4"	34' 0"	41' 11"	36' 8"	30' 11"	38' 11"	34' 0"	28' 8"	36' 8"	32' 0"	27' 0"	34' 10"	30' 5"	25' 8"	33' 2"	29' 1"	24' 6"
æ	1000S250-68	16	41' 11"	36' 8"	30' 11"	38' 1"	33' 3"	28' 1"	35' 4"	30' 11"	26' 1"	33' 2"	29' 1"	24' 6"	30' 9"	27' 7"	23' 4"	28' 9"	26' 5"	22' 3"
=		24	36' 8"	32' 0"	27' 0"	33' 2"	29' 1"	24' 6"	29' 8"	27' 0"	22' 9"	27' 1" e	25' 5"	21' 5"	25' 1" e	24' 1" e	20' 4"	23' 6" e	23' 1" e	19' 6"
₹		12	51' 6"	44' 11"	37' 11"	46' 9"	40' 10"	34' 5"	43' 5"	37' 11"	32' 0"	40' 10"	35' 8"	30' 1"	38' 10"	33' 11"	28' 7"	37' 1"	32' 5"	27' 4"
- 틀	1000S250-97	16	46' 9"	40' 10"	34' 5"	42' 6"	37' 1"	31' 4"	39' 5"	34' 5"	29' 1"	37' 1"	32' 5"	27' 4"	35' 3"	30' 10"	26' 0"	33' 9"	29' 5"	24' 10"
Į,		24	40' 10"	35' 8"	30' 1"	37' 1"	32' 5"	27' 4"	34' 5"	30' 1"	25' 5"	32' 5"	28' 4"	23' 11"	30' 10"	26' 11"	22' 8"	29' 5"	25' 9"	21' 8"
į		12	43' 9"	38' 3"	32' 3"	39' 9"	34' 9"	29' 4"	36' 3"	32' 3"	27' 2"	33' 1"	30' 4"	25' 7"	30' 8" e	28' 10"	24' 4"	28' 8" e	27' 7" e	23' 3"
Ę.	1000S300-54	16	39' 9"	34' 9"	29' 4"	35' 1"	31' 7"	26' 8"	31' 5" e	29' 4"	24' 9"	28' 8" e	27' 7" e	23' 3"	26' 7" e	26' 2" e	22' 1"	24' 10" e	24' 10" e	21' 2" e
ú		24	33' 1"	30' 4"	25' 7"	28' 8" e	27' 7" e	23' 3"	25' 8" e	25' 7" e	21' 7" e	23' 5" e	23' 5" e	20' 4" e	21' 8" e	21' 8" e	19' 4" e	20' 3" e	20' 3" e	18' 6" e
9		12	47' 5"	41' 5"	34' 11"	43' 1"	37' 8"	31' 9"	40' 0"	34' 11"	29' 6"	37' 8"	32' 11"	27' 9"	35' 9"	31' 3"	26' 4"	33' 9"	29' 11"	25' 2"
	1000S300-68	16	43' 1"	37' 8"	31' 9"	39' 2"	34' 3"	28' 10"	36' 4"	31' 9"	26' 9"	33' 9"	29' 11"	25' 2"	31' 3"	28' 5"	23' 11"	29' 3"	27' 2"	22' 11"
		24	37' 8"	32' 11"	27' 9"	33' 9"	29' 11"	25' 2"	30' 2"	27' 9"	23' 5"	27' 7" e	26' 1"	22' 0"	25' 6" e	24' 10" e	20' 11"	23' 10" e	23' 9" e	20' 0"
		12	53' 1"	46' 5"	39' 1"	48' 3"	42' 2"	35' 7"	44' 9"	39' 1"	33' 0"	42' 2"	36' 10"	31' 1"	40' 0"	35' 0"	29' 6"	38' 3"	33' 5"	28' 3"
	1000S300-97	16	48' 3"	42' 2"	35' 7"	43' 10"	38' 3"	32' 4"	40' 8"	35' 7"	30' 0"	38' 3"	33' 5"	28' 3"	36' 4"	31' 9"	26' 10"	34' 9"	30' 5"	25' 8"
		24	42' 2"	36' 10"	31' 1"	38' 3"	33' 5"	28' 3"	35' 7"	31' 1"	26' 2"	33' 5"	29' 3"	24' 8"	31' 9"	27' 9"	23' 5"	30' 5"	26' 7"	22' 5"

See page 27 for clarification of code developed wind pressures prior to using this table.

Notes:

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed Κħ = Ω
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil. 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

Complies with AISI S100-16 (2020) w/S2-20 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

CURTAIN WALL HEIGHTS 20psf 25psf 30psf 35psf 40psf Spacing (in) 15psf Member L/240 L/360 L/600 12 44' 8" 39' 1" 32' 11" 38' 10' 35' 6" 29' 11" 34' 9" 32' 11" 27' 9" 31' 8" 31' 0" 26' 2" 29' 4" e 29' 4" e 24' 10" 27' 5" e 27' 5" e 23' 9" 25' 5" e 23' 9" e 23' 9" e 1200S162-541 16 38' 10" 35' 6" 29' 11" 33' 7" 32' 3" 27' 2" 30' 1" 29' 11" 25' 3" 27' 5" e 27' 5" e 23' 9" 25' 5" e 22' 7" e 21'7" e 24 31'8" 31'0" 26' 2" 27' 5" e 27' 5" e 23' 9" 24' 7" e 24' 7" e 22' 1" e 22' 5" e 22' 5" e 20' 9" e 20'9" e 20'9" e 19'8" e 19' 5" e 19' 5" e 18' 10" e 12 48' 7" 42' 6" 35' 10" 44' 2" 38' 7" 32' 6" 41'0" 35' 10" 30' 2" 37' 8" 33' 8" 28' 5" 34' 10' 32' 0" 27' 0" 32' 7" 30' 7" 25' 10" 28' 3" 1200S162-68 16 44' 2" 38' 7" 32' 6" 39' 11" 35' 1" 29' 7" 35' 8" 32' 6" 27' 5" 32' 7" 30' 7" 25' 10" 30' 2" 29' 1" 24' 6" 27' 10" 23' 6" 24 37' 8" 33'8" 28' 5" 32' 7" 30' 7" 25' 10' 29' 2" 28' 5" 24' 0" 26' 7" e 26' 7" e 22' 7" 24' 8" e 24' 8" e 21'5" 23' 0" e 23' 0" e 20'6" e 12 55' 1" 48' 1" 40' 7" 50' 0" 43' 8" 36' 10" 46' 5" 40' 7" 34' 3" 43' 8" 38' 2" 32' 2" 41'6" 36' 3" 30' 7" 39' 8" 34' 8" 29' 3" 1200S162-97 16 50' 0" 43' 8" 36' 10" 45' 5" 39' 8" 33' 6" 42' 2" 36' 10' 31'1" 39' 8" 34' 8" 29' 3" 37' 9" 32' 11" 27' 9" 36' 1" 31' 6" 26' 7" 24 43' 8" 38' 2" 32' 2" 39'8" 34' 8" 29'3" 36' 10" 32' 2" 27' 2" 34' 5" 30' 4" 25' 7" 31' 10" 28'9" 24' 3" 29' 10" 27' 6" 23' 3" 12 32' 5" 29' 5" e 46' 9" 40' 10" 34' 5" 42' 2" 37' 1" 31'3" 37' 8" 34' 5" 29' 0" 34' 5" e 27' 4" 31' 10" e 30' 9" e 25' 11' 29' 10" e 24' 10' 1200S200-541 16 42' 2" 37' 1' 31' 3" 36' 6" 33' 8" 28' 5" 32' 8" e 31'3" e 26' 5" 29' 10" e 29' 5" e 24' 10" 27' 7" e 27' 7" e 23' 7" e 25' 10" e 25' 10" e 22' 7" e 24 34' 5" e 32' 5" 27' 4" 29' 10" e 29' 5" e 24' 10' 26' 8" e 26' 8" e 23' 1" e 24' 4" e 24' 4" e 21'8" e 22' 6" e 22' 6" e 20' 7" e 21' 1" e 21' 1" e 19'8" e 12 50' 8" 37' 4" 46' 1" 33' 11' 42' 9" 37' 4" 40' 3" 35' 2" 33' 5" 31' 11" 26' 11" 44' 3' 40' 3" 31'6" 29' 8" 37' 8" 28' 2" 35' 2" 1200S200-68 16 46' 1" 33' 11" 41' 10' 36' 7" 38' 7" 33' 11" 35' 2" 31' 11" 26' 11" 30' 4" 25' 7" 30' 6" e 29' 0" 40'3" 30' 10" 28' 7" 32' 7" 24' 6" 24 40' 3" 35' 2' 29' 8" 35' 2" 31' 11" 26' 11" 31'6" e 29'8" 25' 0" 28' 9" e 27' 11" e 23' 6" 26' 7" e 26' 6" e 22' 4" 24' 11" e 24' 11" e 21'5" e 12 57' 4" 50' 1' 42' 3" 52' 1" 45' 6" 38' 5" 48' 4" 42' 3" 35' 8" 45' 6" 39'9" 33' 6" 43' 3" 37' 9" 31' 10' 41' 4" 36' 1" 30' 6" 16 52' 1" 38' 5" 47' 4" 41' 4" 34' 10' 43' 11' 38' 5" 32' 4" 41' 4" 36' 1" 30' 6" 39' 3" 34' 4" 28' 11' 37' 7' 32' 10" 27' 8" 1200S200-97 45' 6" 33' 6" 41' 4" 28' 3" 30'0" 28' 8" 24 45' 6" 39' 9" 36' 1" 30' 6" 38' 5" 33' 6" 36' 1" 31'7" 26' 7" 34' 2" 25' 3" 32' 0" 24' 2" Curtain 12 48' 8" 42' 6" 35' 10" 43' 7" 38' 7" 32' 7" 38' 11" 35' 10" 30' 3" 35' 7" e 33' 9" e 28' 5" 32' 11" e 32' 0" e 27' 0" 30' 10" e 30' 8" e 25' 10" e 1200S250-541 16 43' 7" 38' 7' 32' 7" 37' 9" 35' 1" 29' 7" 33' 9" e 32' 7" e 27' 6" 30' 10" e 30' 8" e 25' 10" e 28' 6" e 28' 6" e 24' 7" e 26' 8" e 26' 8" e 23' 6" e Exterior 24 23' 3" e 21' 9" e 35' 7" e 33' 9" e 28' 5" 30' 10" e 30'8" e 25' 10" e 27' 7" e 27' 7" e 24' 0" e 25' 2" e 25' 2" e 22' 7" e 23' 3" e 21' 5" e 21' 9" e 20' 6" e 12 52' 10" 46' 1" 38' 11" 48' 0" 41' 11" 35' 4" 44' 6" 38' 11" 32' 10" 41' 11" 36' 7" 30' 11" 38' 10" 34' 9" 29' 4" 36' 4" 33' 3" 28' 1" 1200S250-68 16 48' 0" 41' 11" 35' 4" 43' 7" 38' 1" 32' 1" 39' 10" 35' 4" 29' 10" 36' 4" 33' 3" 28' 1" 33' 8" e 31' 7" 26' 8" 31' 6" e 30' 3" e 25' 6" 24 41' 11" 36' 7" 30' 11" 36' 4" 33' 3" 28' 1" 32' 6" e 30' 11" 26' 1" 29'8" e 29' 1" e 24' 6" 27' 6" e 27' 6" e 23' 3" e 25' 9" e 25' 9" e 22' 3" e 12 59' 7' 43' 11" 54' 1" 47' 3" 39' 10' 50' 3" 43' 11" 47' 3" 41' 4" 34' 10" 44' 11" 39' 3" 33' 1" 42' 11' 37' 6" 31'8" 52' 0" 37' 0" 16 39' 10" 1200S250-97 54' 1" 47' 3" 49' 2" 42' 11" 36' 3" 45' 8" 39' 10" 33'8" 42' 11" 37' 6" 31'8" 40' 10" 35' 8" 30' 1" 39'0" 34' 1" 28' 9" 24 34' 10" 32' 9" 29' 9" 47' 3" 41' 4" 42' 11" 37' 6" 31'8" 39' 10" 34' 10' 29' 5" 37' 6" 27' 8" 35' 4" 31'2" 26' 3' 33' 1' 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40' 5" 34' 1" 44' 3" 38' 8" 32' 8" 1200S300-97 16 55' 9" 48' 9" 41' 1" 50'8" 44' 3" 37' 4" 47' 1" 41' 1" 34' 8" 44' 3" 38' 8" 32' 8" 42' 1" 36' 9" 31'0" 40' 3" 35' 2" 29' 8" 24 48' 9' 42' 7' 35' 11" 44' 3" 38' 8" 32' 8" 41' 1" 35' 11" 30' 3" 38' 8" 33' 10" 28' 6" 32' 1" 27' 1" 30' 8" 25' 11" 36' 1" 33' 9"

See page 27 for clarification of code developed wind pressures prior to using this table

Notes

- Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.
- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

- 5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed Kφ = 0.
- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil, 68mil and 97mil Studs.
- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

CURTAIN WALL HEIGHTS 20psf 25psf 30psf 35psf 40psf Spacing (in) 15psf Member L/240 L/360 L/600 12 47' 5" 37' 1" 41' 0" 33' 8" 36' 8" 36' 8" 31' 3" 33' 6" e 33' 6" e 29' 5" 31' 0" e 31' 0" e 27' 11" e 29' 0" e 43' 11' 39' 11" 29' 0" e 26' 9" e 26' 10" e 1400S162-541 16 41'0" 39' 11' 33'8" 35' 6" 35' 6" 30' 7" 31' 9" e 31'9" e 28' 5" 29' 0" e 29' 0" e 26' 9" e 26' 10" e 25' 5" e 25' 1" e 25' 1" e 24' 3" e 24 33' 6" e 33' 6" e 29' 5" 29' 0" e 29' 0" e 26' 9" e 25' 11" e 25' 11" e 24' 10" e 23' 8" e 23' 8" e 23' 4" e 21' 11" e 21' 11" e 21' 11" e 20' 6" e 20' 6" e 20'6" e 12 54' 10" 47' 11' 40' 5" 48' 11' 43' 6" 36'8" 43' 9" 40' 5" 34' 1" 40' 0" 38' 0" 32' 1" 37' 0" 36' 1" 30' 5" 34' 7" 34' 6" 29' 1" 30' 0" e 1400S162-68 16 48' 11" 43' 6" 36' 8" 42' 5" 39' 6" 33' 4" 37' 11" 36' 8" 30' 11" 34' 7" 34' 6" 29' 1" 32' 1" 32' 1" 27' 8" 30' 0" e 26' 6" 24 40' 0" 38' 0" 32' 1" 34' 7" 34' 6" 29' 1" 31'0" e 31'0" e 27' 0' 28' 3" e 28' 3" e 25' 5" e 26' 2" e 26' 2" e 24' 2" e 24' 6" e 24' 6" e 23' 1" e 12 62' 5" 54' 6" 46' 0" 56' 8" 49' 6" 41'9" 52' 7" 46' 0" 38' 9" 49' 6" 43' 3" 36' 6" 47' 0" 41' 1" 34' 8" 45' 0" 39' 4" 33' 2" 1400S162-97 16 56' 8" 49' 6" 41' 9" 51'6" 45' 0" 37' 11' 47' 10" 41'9" 35' 3" 45' 0" 39' 4" 33' 2" 41' 10" 37' 4" 31'6" 39' 1' 35' 9" 30' 1" 24 49'6" 43' 3" 36' 6" 45' 0" 39' 4" 33' 2" 40' 5" 36' 6" 30'9" 36' 11" 34' 4" 29' 0" 34' 2" 32' 7" 27' 6" 31' 11' 31' 2" 26' 4" 33' 10" e 33' 10" e 12 51'9" 45' 11' 38'8" 44' 9" 41' 8" 35' 2" 40' 1" e 38'8" 32' 8" 36' 7" e 36' 5" e 30' 9" 29' 2" e 31'8" e 31'8" e 27' 11" e 34' 8" e 1400S200-541 16 44' 9" 41'8" 35' 2" 38' 9" e 37' 10" e 31' 11' 34' 8" e 29' 8" e 31'8" e 31'8" e 27' 11" e 29' 4" e 29' 4" e 26' 6" e 27' 5" e 27' 5" e 25' 4" e 23' 11" e 24 36' 7" e 36' 5" e 30' 9" 31'8" e 31'8" e 27' 11" e 28' 4" e 28' 4" e 25' 11" e 25' 10" e 25' 10" e 24' 5" e 23' 11" e 23' 2" e 22' 5" e 22' 5" e 22' 2" e 12 42' 1" 47' 7' 42' 1" 43' 5" 39' 7" 33' 5" 40' 2" 31' 9" 37' 7" 36' 0" 30' 4" 57' 1" 49' 10' 51' 10' 45' 4" 38' 3" 35' 6" 37' 7' 16 38' 3" 41' 2" 41' 2" 38' 3" 32' 3" 37' 7" 36' 0" 30' 4" 34' 10" e 34' 2" e 32' 7" e 32' 7" e 27' 7" 1400S200-68 51' 10" 45' 4" 46' 0" 34' 9" 28' 10" 24 43' 5" 39'7' 33' 5" 37' 7" 36' 0" 30' 4" 33' 7" e 33' 5" e 28' 2" 30'8" e 30'8" e 26' 6" e 28' 5" e 28' 5" e 25' 2" e 26' 7" e 26' 7" e 24' 1" e 12 64' 10" 56' 7' 47' 9" 58' 11' 51' 5" 43' 5" 54' 8" 47' 9" 40' 3" 51' 5" 44' 11" 37' 11" 48' 10' 42' 8" 36' 0" 46' 9" 40' 10" 34' 5" Wall 16 58' 11" 43' 5" 53' 6" 46' 9" 39' 5" 49' 8" 43' 5" 36' 7" 46' 9' 40' 10' 34' 5" 44' 5" 38' 9" 32' 9" 42' 2' 37' 1" 31' 3" 1400S200-97 51' 5" 51' 5" 34' 5" 32' 5" 24 44' 11' 37' 11" 46' 9" 40' 10" 43' 5" 37' 11" 32'0" 39' 9" 35' 8" 30' 1" 36' 10' 33' 11" 28' 7" 34' 5" 27' 4" 12 53' 9" 47' 9" 40' 3" 46' 7" 43' 5" 36' 7" 41' 8" e 40' 3" e 34' 0" 38' 0" e 32' 0" 35' 2" e 35' 2" e 30' 4" e 32' 11" e 32' 11" e 29' 0" e 37' 11" e 1400S250-541 16 46' 7" 43' 5" 36' 7' 40' 4" e 39' 5" e 33' 3" 36' 1" e 36' 1" e 30' 10" e 32' 11" e 32' 11" e 29' 0" e 30' 6" e 30' 6" e 27' 7" e 28' 6" e 28' 6" e 26' 5" e 24 23' 3" e 38' 0" e 37' 11" e 32' 0" 32' 11" e 32' 11" e 29' 0" e 29' 5" e 29' 5" e 26' 11" e 26' 11" e 26' 11" e 25' 4" e 24' 11" e 24' 11" e 24' 1" e 23' 3" e 23' 1" e 12 59' 5" 51' 11' 43' 9" 54' 0" 47' 2" 39'9" 49' 4" 43' 9" 36' 11" 45' 1" 41' 2" 34' 9" 41'9" 39' 1" 33'0" 39' 0" e 37' 5" 31'7" 35' 7" e 1400S250-68 16 54' 0" 47' 2" 39' 9" 47' 10" 42' 10" 36' 2" 42' 9" 39' 9" 33' 6" 39' 0" e 37' 5" 31' 7" 36' 2" e 30'0" 33' 10" e 33' 10" e 28' 8" e 34' 11" e 26' 2" e 24 45' 1" 41' 2" 34' 9" 39' 0" e 37' 5" 31'7" 34' 9" e 29' 4" 31' 10" e 31' 10" e 27' 7" e 29' 6" e 29' 6" e 27' 7" e 27' 7" e 25' 1" e 12 67' 3' 49' 6' 61' 1" 45' 0' 41'9" 53' 4" 39' 4" 44' 3" 37' 4" 42' 4" 35' 9" 58' 9' 53' 4" 56' 8" 49' 6" 46' 7" 50' 8" 48' 6' 16 42' 4" 38' 6" 1400S250-97 61' 1" 53' 4" 45' 0" 55' 6" 48' 6" 40' 11' 51'6" 45' 0" 37' 11" 48' 6" 35' 9" 46' 1" 40' 3" 33' 11' 43' 9" 32' 5" 24 53' 4" 46' 7' 39' 4" 48' 6" 42' 4" 35' 9" 45' 0" 39' 4" 33' 2" 41' 3" 37' 0" 31' 2" 38' 2" 35' 2" 29' 8' 35' 9" 33' 7" 28' 4" 12 55' 1" 48' 5' 40' 10" 47' 8" 44' N' 37' 1" 42' 8" e 40' 10" e 34' 5" 38' 11" e 38' 5" e 32' 5" 36' 1" e 36' 1" e 30'9" e 33' 9" e 33' 9" e 29' 5" e 16 47' 8" 41' 4" e 39' 11" e 36' 11" e 31' 3" e 33' 9" e 33' 9" e 29' 5" e 31'3" e 31' 3" e 29' 2" e 29' 2" e 26' 9" e 1400S300-541 44' 0" 37' 1" 33' 8" 36' 11" e 28' 0" e 24 38' 11" e 38' 5" e 32' 5" 33' 9" e 33' 9" e 29' 5" e 30' 2" e 30' 2" e 27' 4" e 27' 6" e 27' 6" e 25' 9" e 25' 6" e 25' 6" e 24' 5" e 23' 10" e 23' 10" e 23' 4" e 12 61'0" 53' 3" 44' 11" 55' 5" 48' 5" 40' 10" 50' 6" 44' 11" 37' 11" 46' 2" 42' 3" 35' 8" 42' 9" 40' 2" 33' 10" 39' 11" e 38' 5" e 32' 5" 16 55' 5" 40' 10" 48' 11" 44' 0" 37' 1" 43' 9" 38' 5" e 32' 5" 37' 0" e 30' 9" 34' 7" e 34' 7" e 29' 5" e 1400S300-68 48' 5" 40' 10" 34' 5" 39' 11" e 36' 6" e 24 46' 2" 42' 3" 35' 8" 39' 11" e 38' 5" e 32' 5" 35' 9" e 35' 8" e 30' 1" 32' 7" e 32' 7" e 28' 4" e 30' 2" e 30' 2" e 26' 11" e 28' 3" e 28' 3" e 25' 9" e 60' 6" 12 69'3" 51'0" 62' 11" 55' 0" 46' 4" 58' 5" 51'0" 43' 1" 55' 0" 48' 0" 40' 6" 52' 3" 45' 7" 38' 6" 49' 11' 43' 8" 36' 10' 1400S300-97 16 62' 11" 55' 0' 46' 4" 57' 2" 49' 11' 42' 2" 53' 1" 46' 4" 39' 1" 49' 11' 43' 8" 36' 10" 47' 5" 41'5" 35' 0" 44' 10" 39' 8" 33' 5"

See page 27 for clarification of code developed wind pressures prior to using this table

48' 0"

40' 6"

49' 11'

43' 8"

36' 10'

Notes

Studs are checked for simple-span deflection and stress. Stress calculations are made for mid-span fully braced moment, end shear through the unperforated section and shear moment interaction through the perforated section 10" away from the end bearing.

55' 0"

- 2 A 1/3 stress increase is not used.
- 3 Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- 4 Listed limiting heights are based on steel properties only.

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5 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi = 0$.

40' 6"

34' 2"

46' 3"

- 6 Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- 7 Members marked with an 1 have h/t > 200, and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI S100-16 (2020) w/S2-20. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed. (3/4" for 2-1/2" studs)
- 9 All values are based on Fy=33ksi for 33mil and 43mil Studs, and Fy=50ksi for 54mil. 68mil and 97mil Studs.

30' 6"

36' 7"

- 10 For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "f" of IBC table 1604.3. The 5 psf pressure has not been reduced for deflection checks.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.
- 12 End reactions must be checked for web crippling separately.

36' 3"

39' 1"

Complies with AISI S100-16 (2020) w/S2-20 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

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34' 8"

29' 3"

42' 3"

38' 1"

32' 2"