

CURTAIN WALL HEIGHTS

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

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.
- A 1/3 stress increase is not used.
- Limiting heights are based on continuous lateral support of each flange over the full height of the stud.
- Listed limiting heights are based on steel properties only.
- For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed $K\phi = 0$.
- Web crippling check based on 1-inch end bearing. Web stiffeners are required when listed limiting heights are followed by "e".
- Members marked with an ¹ have $h/t > 200$, and thus require end stiffeners.
- 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)
- All values are based on $F_y=33\text{ksi}$ for 33mil and 43mil Studs, and $F_y=50\text{ksi}$ for 54mil, 68mil and 97mil Studs.
- 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.
- Lateral loads have not been modified for strength checks. Full loads are applied.
- End reactions must be checked for web crippling separately.

Complies with AISI S100-16 (2020) w/S2-20 • IBC 2021

CURTAIN WALL HEIGHTS

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

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.
- 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 $K\phi = 0$.
- 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 $F_y=33\text{ksi}$ for 33mil and 43mil Studs, and $F_y=50\text{ksi}$ 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 2021