CURTAIN WALL HEIGHTS

Member	Spacing (in)	15psf			20psf			25psf			30psf			35psf			40psf		
	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
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"	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
	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
800S137-54	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"
	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"
800S137-68	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"
	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"
800S137-97	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"
	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"
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
800S162-33 ¹ 800S162-43	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
	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
800S162-54	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"
	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"
800\$162-68	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"
	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"
800S162-97	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"
	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:

- 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 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.

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

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 19' 9" e 16' 8" 19' 0" e 18' 9" e 15' 10' 17' 9" e 17' 9" e 15' 1" 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" 24' 4" 20' 6" 25' 10" 19' 1" 24' 0" 21'3" 17' 11" 22' 3" 20' 2" 20' 10" 19' 4" 24 27' 10' 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" 21'5" 23' 1" 22' 10" 21'5' 19' 2" e 16' 2" 18'0" e 24 29' 1' 25' 6" 19'5" 18' 1" 20' 10" e 20' 2" e 17'0" 19'3" 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 $K\phi = 0$.
- 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 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 2021

The technical content of this literature is effective 7/20/23 and supersedes all previous information.

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