

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		
600S137-33	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		
	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		
600S137-43	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"		
	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		
600S137-54	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"		
	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"		
600S137-68	12	26' 10"	23' 5"	19' 9"	24' 5"	21' 4"	18' 0"	22' 8"	19' 9"	16' 8"	19' 9"	16' 8"	17' 4"	18' 7"	15' 8"	20' 3"	17' 8"	14' 11"	19' 4"	16' 11"	14' 3"
	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"		
600S137-97	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"		
	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"		
600S162-33	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" e		
	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		
600S162-43	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"		
	16	20' 10"	19' 4"	16' 4"	18' 1"	17' 7"	14' 10"	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	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		
600S162-54	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"		
	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"		
600S162-68	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"		
	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"		
600S162-97	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"		
	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:

- 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 $F_y=33$ ksi for 33mil and 43mil Studs, and $F_y=50$ 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 2024

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
600S200-33	12	21' 7" e	20' 6" e	17' 3"	18' 8" e	18' 7" e	15' 8" e	16' 8" e	16' 8" e	14' 7" e	15' 3" e	15' 3" e	13' 8" e	14' 1" e	14' 1" e	13' 0" e	13' 2" e	13' 2" e	12' 5" e
	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	11' 4" 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
600S200-43	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
	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	13' 8" e	12' 4" e
	24	18' 3" e	17' 9" e	15' 0"	15' 9" e	15' 9" e	13' 7" e	14' 1" 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
600S200-54	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"
	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"
	24	21' 10"	19' 1"	16' 1"	19' 10"	17' 4"	14' 7"	18' 5"	16' 1"	13' 7"	17' 2"	15' 1"	12' 9"	15' 10"	14' 4"	12' 1"	14' 10"	13' 9"	11' 7"
600S200-68	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"
	16	26' 9"	23' 5"	19' 9"	24' 4"	21' 3"	17' 11"	22' 7"	19' 9"	16' 8"	21' 3"	18' 7"	15' 8"	20' 2"	17' 8"	14' 11"	19' 4"	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"
600S200-97	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"
	16	29' 9"	26' 0"	21' 11"	27' 0"	23' 7"	19' 11"	25' 1"	21' 11"	18' 6"	23' 7"	20' 7"	17' 5"	22' 5"	19' 7"	16' 6"	21' 5"	18' 9"	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"
600S250-43	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
	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	13' 6" e	14' 0" e	14' 0" e	12' 11" e
	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
600S250-54	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"
	16	26' 0"	22' 9"	19' 2"	23' 8"	20' 8"	17' 5"	21' 11"	19' 2"	16' 2"	20' 8"	18' 1"	15' 3"	19' 7"	17' 2"	14' 6"	18' 8"	16' 5"	13' 10"
	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"
600S250-68	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"
	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	24' 6"	21' 5"	18' 1"	22' 3"	19' 6"	16' 5"	20' 8"	18' 1"	15' 3"	19' 6"	17' 0"	14' 4"	18' 6"	16' 2"	13' 7"	17' 8"	15' 5"	13' 0"
600S250-97	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	31' 3"	27' 3"	23' 0"	28' 4"	24' 9"	20' 11"	26' 4"	23' 0"	19' 5"	24' 9"	21' 8"	18' 3"	23' 6"	20' 7"	17' 4"	22' 6"	19' 8"	16' 7"
	24	27' 3"	23' 10"	20' 1"	24' 9"	21' 8"	18' 3"	23' 0"	20' 1"	16' 11"	21' 8"	18' 11"	15' 11"	20' 7"	18' 0"	15' 2"	19' 8"	17' 2"	14' 6"
600S300-54	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"
	16	26' 7"	23' 3"	19' 7"	24' 2"	21' 1"	17' 10"	22' 5"	19' 7"	16' 6"	21' 1"	18' 5"	15' 7"	20' 1"	17' 6"	14' 9"	18' 11"	16' 9"	14' 2"
	24	23' 3"	20' 3"	17' 1"	21' 1"	18' 5"	15' 7"	19' 7"	17' 1"	14' 5"	17' 10"	16' 1"	13' 7"	16' 6"	15' 4"	12' 11"	15' 6" e	14' 8"	12' 4"
600S300-68	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"
	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"	23' 0"	20' 2"	17' 0"	21' 5"	18' 8"	15' 9"	20' 2"	17' 7"	14' 10"	19' 1"	16' 8"	14' 1"	18' 1"	16' 0"	13' 6"
600S300-97	12	35' 8"	31' 2"	26' 4"	32' 5"	28' 4"	23' 11"	30' 1"	26' 4"	22' 2"	28' 4"	24' 9"	20' 10"	26' 11"	23' 6"	19' 10"	25' 9"	22' 6"	19' 0"
	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"
	24	28' 4"	24' 9"	20' 10"	25' 9"	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.
- 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 2024