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
6" Exterior Curtain Wall Framing	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"	21' 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	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
	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 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

CURTAIN WALL HEIGHTS

6" Exterior Curtain Wall Framing

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:

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 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

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