

CURTAIN WALL HEIGHTS

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

8" Exterior Curtain Wall Framing

"e" = web stiffeners required at ends.

See page 26 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 Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- 6 For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed  $K\phi=0$ .
- 7 Cells marked with an "\*" have  $h/t > 200$ , and thus require end stiffeners.
- 8 Capacities are calculated according to the AISI-NASPEC S100-2007, with 2010 supplement. A 1-1/2" by 4" knockout spaced no closer than 24" o.c. is assumed.
- 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 "r" of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

# CURTAIN WALL HEIGHTS

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

8" Exterior Curtain Wall Framing

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- For deflection calculations, 15psf and higher wind pressures have been multiplied by 0.7, in accordance with footnote "r" of IBC table 1604.3.
- Lateral loads have not been modified for strength checks. Full loads are applied.