

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
600S137-33	12	19'1"	18'7"	15'8"	16'6"	16'6"	14'3"	14'9"	13'3"	13'6"	13'6"	12'5"	11'10"	11'10"	12'6"	12'6"	11'8"	11'8"	11'4"
	16	16'6"	16'6"	14'3"	14'4"	14'4"	12'11"	12'10"	12'0"	11'8"	11'8"	11'4"	10'9"	10'9"	10'10"	10'10"	10'1"	10'1"	10'1"
	24	13'6"	13'6"	12'5"	11'8"	11'4"	10'5"	10'5"	10'5"	9'6"	9'6"	8'10"	8'10"	8'10"	8'10"	8'10"	8'3"	8'3"	8'3"
	12	22'11"	20'5"	17'3"	19'10"	18'6"	15'8"	17'9"	17'3"	14'6"	16'3"	13'8"	13'8"	13'0"	15'0"	15'0"	14'0"	14'0"	12'5"
600S137-43	16	19'10"	18'6"	15'8"	16'10"	16'10"	14'2"	15'5"	13'2"	14'0"	14'0"	12'5"	13'0"	13'0"	13'0"	13'0"	12'2"	12'2"	11'3"
	24	16'3"	16'2"	13'8"	14'0"	14'0"	12'5"	12'7"	11'6"	11'6"	10'10"	10'10"	10'4"	10'7"	10'7"	9'11"	9'11"	9'10"	
	12	25'1"	21'11"	18'5"	22'9"	21'2"	18'5"	19'11"	17'4"	18'11"	18'11"	14'8"	13'11"	16'6"	18'11"	13'11"	18'1"	15'9"	
	16	22'9"	19'11"	16'9"	20'8"	18'1"	15'3"	19'2"	16'9"	14'2"	18'1"	13'4"	15'0"	15'0"	17'2"	15'0"	16'4"	14'4"	12'1"
600S137-54	24	19'11"	17'4"	14'8"	18'1"	15'9"	13'4"	16'9"	14'8"	12'4"	15'4"	13'9"	11'8"	14'3"	13'1"	11'1"	13'4"	12'6"	10'7"
	12	26'10"	23'5"	19'9"	21'4"	18'0"	18'0"	21'4"	16'8"	21'4"	18'7"	15'8"	14'11"	17'8"	14'11"	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"	19'4"	16'11"	14'3"	16'11"	13'7"	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"	12'5"	14'0"	11'10"	14'0"	11'10"	15'4"	13'5"	11'4"
600S137-97	12	29'8"	25'11"	21'10"	27'0"	23'7"	19'10"	25'0"	18'5"	23'7"	17'4"	17'4"	20'7"	19'7"	22'5"	16'6"	21'5"	18'8"	15'9"
	16	27'0"	23'7"	19'10"	24'6"	21'5"	18'1"	22'9"	16'9"	21'5"	18'8"	15'9"	17'9"	17'9"	20'4"	15'0"	19'5"	17'0"	14'4"
	24	23'7"	20'7"	17'4"	21'5"	18'8"	15'9"	19'10"	14'8"	18'8"	16'4"	13'9"	15'6"	15'6"	17'9"	13'1"	17'0"	14'10"	12'6"
	12	20'6"	19'6"	16'6"	17'9"	17'9"	15'0"	15'11"	13'11"	14'6"	14'6"	13'1"	13'1"	13'5"	13'5"	12'5"	12'7"	12'7"	11'11"
600S162-33	16	17'9"	17'9"	15'0"	15'5"	13'7"	13'7"	13'9"	12'8"	12'7"	12'8"	11'11"	11'3"	11'3"	11'8"	11'3"	10'11"	10'11"	10'10"
	24	14'6"	14'6"	13'1"	12'7"	11'11"	11'0"	11'3"	10'3"	10'3"	10'3"	9'6"	9'6"	9'6"	9'6"	8'11"	8'11"	8'11"	8'11"
	12	24'4"	21'3"	17'11"	22'0"	19'4"	16'4"	19'8"	17'11"	15'2"	17'11"	14'3"	16'11"	16'11"	16'7"	13'6"	15'6"	15'4"	12'11"
	16	22'0"	19'4"	16'4"	19'0"	17'7"	14'10"	17'0"	13'9"	15'6"	15'6"	12'11"	14'5"	12'4"	14'5"	13'5"	13'5"	11'9"	11'9"
600S162-43	24	17'11"	16'11"	14'3"	15'6"	15'4"	12'11"	13'11"	12'0"	12'8"	11'4"	11'4"	11'9"	11'9"	11'0"	10'9"	11'0"	11'0"	10'3"
	12	26'2"	22'10"	19'3"	23'9"	20'9"	17'6"	19'3"	16'3"	20'9"	18'1"	15'3"	19'8"	17'3"	19'8"	14'6"	18'10"	16'6"	13'11"
	16	23'9"	20'9"	17'6"	21'7"	18'10"	15'11"	20'0"	14'9"	18'10"	16'6"	13'11"	17'11"	15'8"	13'2"	13'2"	17'2"	15'0"	12'7"
	24	20'9"	18'1"	15'3"	18'10"	16'6"	13'11"	17'6"	12'11"	16'6"	14'5"	12'2"	15'8"	13'8"	11'6"	14'8"	13'1"	11'0"	11'0"
600S162-68	12	28'0"	24'6"	20'8"	25'6"	23'2"	18'9"	23'8"	17'5"	20'8"	17'5"	16'5"	18'5"	15'7"	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"	15'10"	20'3"	17'8"	14'11"	16'9"	14'2"	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"	13'10"	17'8"	15'5"	13'0"	16'9"	14'8"	16'9"	12'4"	16'0"	14'0"	11'10"
	12	31'1"	27'2"	22'11"	28'3"	24'8"	20'9"	26'2"	22'11"	19'4"	24'8"	18'2"	23'5"	20'5"	23'5"	17'3"	22'5"	19'7"	16'6"
600S162-97	16	28'3"	24'8"	20'9"	25'8"	22'5"	18'11"	23'10"	20'9"	17'6"	16'6"	15'4"	18'7"	15'8"	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"	19'7"	17'1"	14'5"	16'3"	16'3"	18'7"	13'8"	17'9"	15'6"	13'1"

"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			
	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
600S200-33	12	21'11"	20'6"	17'3"	18'11"	16'11"	14'7"	15'6"	15'6"	13'8"	14'4"	14'4"	13'0"	13'5"	13'5"	13'0"	13'5"	13'5"	12'5"
	16	18'11"	18'7"	15'8"	16'5"	14'8"	13'3"	14'8"	13'5"	12'5"	12'5"	10'2"	11'0"	10'2"	10'2"	11'0"	11'7"	11'7"	11'4"
	24	15'6"	15'6"	13'8"	13'5"	12'0"	11'7"	10'11"	10'11"	10'11"	10'11"	10'2"	10'2"	10'2"	10'2"	10'2"	9'6"	9'6"	9'6"
	12	25'7"	22'4"	18'10"	22'8"	20'3"	18'10"	15'11"	18'6"	17'9"	15'0"	17'1"	16'10"	14'3"	16'0"	16'0"	13'7"	16'0"	13'7"
600S200-43	16	22'8"	20'4"	17'2"	19'7"	17'2"	14'5"	16'0"	16'0"	13'7"	14'10"	14'10"	12'11"	13'10"	13'10"	12'4"	13'10"	13'10"	12'4"
	24	18'6"	17'9"	15'0"	16'0"	14'4"	12'7"	13'1"	13'1"	11'11"	12'1"	12'1"	11'3"	11'4"	11'4"	10'9"	11'4"	11'4"	10'9"
	12	27'6"	24'0"	20'3"	24'11"	21'10"	18'5"	23'2"	21'10"	19'1"	20'9"	18'1"	15'3"	19'10"	17'4"	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"	13'10"	16'5"	13'10"	18'0"	15'9"	13'3"
600S200-54	24	21'10"	19'10"	16'1"	19'10"	17'4"	13'7"	17'4"	15'1"	12'9"	16'2"	14'4"	12'1"	15'1"	15'1"	11'7"	15'1"	15'1"	11'7"
	12	29'6"	25'9"	21'9"	26'9"	24'10"	19'9"	23'5"	20'5"	16'4"	22'3"	20'5"	16'4"	21'3"	18'7"	15'8"	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"	14'11"	17'8"	14'11"	19'4"	16'10"	14'3"
	24	23'5"	20'5"	17'3"	21'3"	18'7"	14'6"	18'7"	16'3"	13'8"	17'8"	15'5"	13'0"	16'10"	14'9"	12'5"	16'10"	14'9"	12'5"
600S200-68	12	32'9"	28'7"	24'1"	29'9"	26'0"	21'11"	27'7"	24'1"	20'4"	26'0"	22'8"	18'2"	21'7"	18'2"	17'5"	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"	16'6"	21'5"	18'9"	15'10"	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"	14'5"	17'1"	14'5"	13'10"	18'9"	16'4"	13'10"
	12	26'10"	23'5"	19'9"	23'3"	21'3"	17'11"	20'10"	19'9"	16'8"	19'0"	15'8"	14'11"	17'7"	17'7"	14'11"	16'5"	16'5"	14'3"
600S250-43	16	23'3"	21'3"	17'11"	20'2"	16'4"	16'4"	18'0"	17'11"	15'2"	16'5"	14'3"	13'6"	15'3"	14'3"	14'3"	14'3"	14'3"	12'11"
	24	19'0"	18'7"	15'8"	16'5"	14'3"	13'3"	14'8"	13'5"	12'5"	12'5"	11'10"	11'10"	11'7"	11'7"	11'4"	11'7"	11'7"	11'4"
	12	28'8"	25'0"	21'1"	26'0"	24'2"	21'1"	24'2"	22'9"	19'10"	16'9"	18'10"	15'11"	18'10"	18'1"	15'3"	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"	19'7"	17'2"	14'6"	16'10"	16'5"	13'10"	16'10"	16'5"	13'10"
600S250-54	24	22'9"	19'10"	16'9"	20'8"	18'1"	15'3"	19'2"	17'10"	14'2"	17'10"	15'9"	12'8"	16'6"	15'6"	14'4"	15'6"	14'4"	12'1"
	12	30'11"	27'0"	22'9"	28'1"	24'6"	20'8"	26'1"	22'9"	19'2"	23'4"	20'4"	17'2"	23'4"	20'4"	17'2"	23'4"	20'4"	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"
600S250-68	12	34'4"	30'0"	25'4"	31'3"	27'3"	23'0"	29'0"	25'4"	21'4"	27'3"	23'10"	19'1"	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"	23'6"	20'7"	17'4"	22'6"	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"	15'2"	19'8"	18'0"	15'2"	19'8"	17'2"	14'6"
	12	29'3"	25'7"	21'7"	26'7"	23'3"	19'7"	24'8"	21'7"	18'2"	23'3"	20'3"	16'3"	22'1"	19'3"	16'3"	21'1"	18'5"	15'7"
600S300-54	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"	17'6"	15'7"	14'9"	19'2"	16'9"	14'2"
	24	23'3"	20'3"	17'1"	21'1"	18'5"	15'7"	19'7"	17'1"	14'5"	16'10"	13'7"	12'11"	15'4"	12'11"	15'9"	15'9"	14'8"	12'4"
	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"	16'1"	20'11"	19'1"	16'1"	20'11"	18'3"	15'5"
600S300-68	24	25'4"	22'2"	18'8"	23'0"	20'2"	17'0"	21'5"	18'8"	15'9"	20'2"	17'7"	14'1"	16'8"	14'1"	13'6"	18'3"	16'0"	13'6"
	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"	18'0"	23'5"	20'5"	17'3"	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"	15'9"	15'9"	15'9"	20'5"	17'10"	15'1"

6" 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 # of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.