

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
362S137-33	12	14'3"	12'7"	10'7"	12'4"	10'9"	9'8"	11'1"	10'7"	8'11"	8'5"	10'0"	9'4"	8'0"	8'0"	8'9"	8'9"	8'9"	7'8"
	16	12'4"	11'5"	10'5"	10'9"	9'8"	8'9"	9'7"	9'7"	8'2"	7'8"	8'9"	8'1"	7'3"	7'3"	7'7"	7'7"	7'7"	6'11"
	24	10'1"	10'0"	8'9"	8'9"	7'8"	7'8"	7'10"	7'10"	7'1"	6'8"	7'2"	6'7"	6'4"	6'4"	6'2"	6'2"	6'2"	6'1"
	12	15'8"	13'8"	11'7"	14'3"	12'5"	10'6"	13'0"	11'7"	9'9"	9'2"	11'10"	10'4"	8'8"	8'8"	10'3"	9'10"	9'10"	8'4"
362S137-43	16	14'3"	12'5"	10'6"	12'7"	11'4"	9'6"	11'3"	10'6"	8'10"	8'4"	10'3"	9'10"	7'11"	7'11"	8'11"	8'11"	8'11"	7'7"
	24	11'10"	10'10"	9'2"	10'3"	9'10"	8'4"	9'2"	8'5"	7'9"	7'3"	9'9"	7'9"	6'11"	6'11"	7'3"	7'3"	7'3"	6'7"
	12	16'9"	14'8"	12'4"	15'3"	13'4"	11'3"	14'2"	12'4"	11'8"	10'5"	13'4"	11'8"	11'8"	11'8"	12'1"	12'1"	12'1"	10'7"
	16	15'3"	13'4"	11'3"	13'10"	12'1"	10'2"	12'10"	11'3"	9'6"	8'11"	11'3"	10'7"	10'0"	8'6"	8'6"	11'0"	11'0"	9'7"
362S137-54	24	13'4"	11'8"	9'10"	12'1"	10'7"	8'11"	11'3"	9'10"	8'3"	7'9"	10'7"	9'3"	7'5"	7'5"	9'7"	9'7"	9'7"	8'1"
	12	17'11"	15'8"	13'2"	16'3"	14'3"	12'0"	15'1"	13'2"	11'2"	10'6"	14'3"	12'5"	10'6"	10'6"	12'11"	12'11"	12'11"	9'6"
	16	16'3"	14'3"	12'0"	14'10"	12'11"	10'11"	13'9"	12'0"	10'1"	9'6"	12'11"	11'4"	10'9"	9'1"	11'9"	10'3"	10'3"	8'8"
	24	14'3"	12'5"	10'6"	12'11"	11'4"	9'6"	12'0"	10'6"	8'10"	8'4"	10'9"	9'4"	7'11"	7'11"	10'3"	9'0"	9'0"	7'7"
362S137-68	12	19'9"	17'3"	14'6"	17'11"	15'8"	13'2"	16'8"	15'8"	12'3"	11'6"	15'8"	14'10"	11'6"	11'0"	12'5"	12'5"	12'5"	10'6"
	16	17'11"	15'8"	13'2"	16'3"	14'3"	12'0"	15'1"	13'2"	11'2"	10'6"	14'3"	12'5"	10'6"	10'6"	12'11"	12'11"	12'11"	9'6"
	24	15'8"	13'8"	11'6"	14'3"	12'5"	10'6"	13'2"	11'6"	9'9"	9'2"	12'5"	10'10"	8'8"	8'8"	11'3"	11'3"	11'3"	8'4"
	12	15'1"	13'2"	11'1"	13'3"	12'0"	10'1"	11'11"	11'11"	9'5"	8'10"	10'6"	10'0"	8'5"	8'5"	9'5"	9'5"	9'5"	8'0"
362S162-33	16	13'3"	12'0"	10'1"	11'6"	10'11"	9'2"	10'3"	9'5"	8'6"	8'0"	9'5"	8'8"	7'7"	7'7"	8'2"	8'2"	8'2"	7'3"
	24	10'10"	10'6"	8'10"	9'5"	8'5"	7'8"	8'5"	7'5"	7'0"	7'0"	7'8"	7'1"	6'8"	6'8"	6'8"	6'8"	6'8"	6'4"
	12	16'5"	14'4"	12'1"	14'11"	13'0"	11'0"	12'1"	10'2"	9'7"	9'7"	12'9"	11'5"	9'1"	9'1"	11'1"	11'1"	11'1"	8'9"
	16	14'11"	13'0"	11'0"	13'7"	11'10"	10'0"	12'1"	11'1"	10'4"	8'9"	10'4"	9'10"	8'3"	8'3"	9'7"	9'7"	9'7"	7'11"
362S162-43	24	12'9"	11'5"	9'7"	11'1"	10'4"	8'9"	9'11"	9'7"	8'1"	7'7"	9'0"	8'4"	7'3"	7'3"	7'10"	7'10"	7'10"	6'11"
	12	17'7"	15'4"	13'0"	16'0"	14'0"	11'9"	14'10"	13'0"	10'11"	14'0"	12'2"	11'3"	11'7"	11'7"	12'8"	12'8"	12'8"	9'4"
	16	16'0"	14'0"	11'9"	14'6"	12'8"	10'8"	13'6"	11'9"	9'11"	9'4"	12'8"	12'1"	10'6"	10'6"	11'6"	11'6"	11'6"	8'6"
	24	14'0"	12'2"	10'3"	12'8"	11'1"	9'4"	11'9"	10'3"	8'8"	8'2"	10'6"	9'2"	7'9"	7'9"	10'1"	10'1"	10'1"	7'5"
362S162-68	12	18'10"	16'5"	13'10"	17'1"	14'11"	12'7"	15'11"	13'1"	11'8"	11'0"	14'11"	14'2"	12'5"	10'6"	13'7"	13'7"	13'7"	10'0"
	16	17'1"	14'11"	12'7"	15'6"	13'7"	11'5"	14'5"	13'7"	11'10"	10'0"	12'11"	11'3"	9'6"	9'6"	12'4"	12'4"	12'4"	9'1"
	24	14'11"	13'1"	11'0"	13'7"	11'10"	10'0"	12'7"	11'0"	9'3"	8'9"	11'10"	10'4"	8'4"	8'4"	10'9"	10'9"	10'9"	7'11"
	12	20'9"	18'2"	15'4"	18'10"	16'6"	13'11"	17'6"	15'4"	12'11"	12'2"	15'8"	14'5"	13'8"	11'6"	15'0"	15'0"	15'0"	11'0"
362S162-97	16	18'10"	16'6"	13'11"	17'2"	15'0"	12'8"	15'11"	13'11"	11'9"	11'0"	14'3"	12'5"	10'6"	10'6"	13'7"	13'7"	13'7"	10'0"
	24	16'6"	14'5"	12'2"	15'0"	13'1"	11'0"	13'11"	12'2"	10'3"	9'8"	12'5"	10'10"	9'2"	9'2"	11'11"	11'11"	11'11"	8'9"

3-5/8" 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 # of IBC table 1604.3.
- 11 Lateral loads have not been modified for strength checks. Full loads are applied.

# 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
362S200-33	12	15'11"	13'11"	11'8"	12'7"	10'8"	9'10"	11'4"	11'0"	9'3"	10'6"	10'6"	10'6"	9'10"	8'10"	9'10"	9'10"	9'10"	8'5"
	16	13'11"	12'7"	10'8"	11'5"	9'8"	9'0"	9'10"	9'0"	8'5"	8'5"	8'5"	8'5"	8'6"	8'0"	8'6"	8'6"	8'6"	8'5"
	24	11'4"	11'0"	9'3"	9'10"	8'5"	8'10"	8'10"	8'10"	7'10"	7'4"	7'4"	7'5"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"
	12	17'4"	15'2"	12'9"	13'9"	11'7"	10'9"	14'8"	13'8"	12'0"	10'2"	12'8"	11'5"	9'8"	9'8"	11'10"	10'11"	10'11"	9'3"
362S200-43	16	15'9"	13'9"	11'7"	14'4"	12'6"	10'7"	13'0"	11'7"	9'10"	8'7"	11'0"	10'5"	8'9"	8'9"	9'11"	9'11"	8'4"	8'4"
	24	13'8"	12'0"	10'2"	11'10"	10'11"	9'3"	10'7"	10'2"	8'7"	9'8"	9'7"	9'0"	8'1"	7'8"	8'5"	8'5"	7'4"	7'4"
	12	18'7"	16'3"	13'8"	16'11"	14'9"	12'5"	15'8"	13'8"	11'7"	10'11"	14'9"	12'11"	10'11"	10'4"	13'5"	11'9"	9'11"	9'11"
	16	16'11"	14'9"	12'5"	15'4"	13'5"	11'4"	14'3"	12'5"	10'6"	10'6"	13'5"	11'9"	9'11"	9'5"	12'2"	10'8"	10'8"	9'0"
362S200-54	24	14'9"	12'11"	10'11"	13'5"	11'9"	9'11"	12'5"	10'11"	9'2"	8'8"	11'2"	9'9"	8'2"	8'2"	10'8"	9'4"	7'10"	7'10"
	12	19'11"	17'5"	14'8"	18'1"	15'10"	13'4"	16'10"	14'8"	12'5"	11'8"	13'10"	13'1"	11'1"	11'1"	14'4"	12'7"	10'7"	10'7"
	16	18'1"	15'10"	13'4"	16'5"	14'4"	12'1"	15'3"	13'4"	11'3"	10'7"	13'8"	11'11"	10'1"	10'1"	13'1"	11'5"	9'7"	9'7"
	24	15'10"	13'10"	11'8"	14'4"	12'7"	10'7"	13'4"	11'8"	9'10"	8'9"	11'11"	11'0"	9'3"	8'9"	11'5"	10'0"	8'5"	8'5"
362S200-68	12	22'0"	19'3"	16'3"	20'0"	17'6"	14'9"	18'7"	16'3"	13'8"	12'11"	17'6"	15'3"	12'11"	12'3"	15'11"	13'11"	11'8"	11'8"
	16	20'0"	17'6"	14'9"	18'2"	15'11"	13'5"	16'11"	14'9"	12'5"	11'8"	15'1"	13'2"	11'1"	11'1"	14'5"	12'7"	10'8"	10'8"
	24	17'6"	15'3"	12'11"	15'11"	13'11"	11'8"	14'9"	12'11"	10'10"	10'3"	13'11"	12'1"	10'3"	9'9"	12'7"	11'0"	9'3"	9'3"
	12	18'4"	16'0"	13'6"	16'7"	14'6"	12'3"	15'5"	13'6"	11'4"	10'8"	14'1"	12'8"	10'8"	10'2"	12'2"	11'6"	11'6"	9'9"
362S250-43	16	16'7"	14'6"	12'3"	13'2"	11'2"	10'4"	12'3"	10'4"	9'9"	9'9"	11'3"	10'11"	9'3"	10'6"	10'6"	10'6"	8'10"	8'10"
	24	14'1"	12'8"	10'8"	12'2"	10'11"	9'0"	10'11"	9'0"	8'6"	9'2"	9'11"	9'2"	8'7"	8'7"	8'7"	8'7"	7'9"	7'9"
	12	19'7"	17'1"	14'5"	17'9"	15'6"	13'1"	16'6"	14'5"	12'2"	15'6"	13'7"	11'5"	11'5"	10'10"	14'1"	12'4"	10'5"	10'5"
	16	17'9"	15'6"	13'1"	16'2"	14'1"	11'11"	15'0"	13'1"	11'1"	10'5"	12'4"	10'9"	9'1"	9'10"	12'10"	11'2"	9'5"	9'5"
362S250-54	24	15'6"	13'7"	11'5"	14'1"	12'4"	10'5"	13'1"	11'5"	9'8"	12'4"	10'9"	9'1"	8'7"	8'7"	11'2"	9'9"	8'3"	8'3"
	12	21'0"	18'5"	15'6"	19'1"	16'8"	14'1"	17'9"	15'6"	13'1"	16'8"	14'7"	12'4"	12'4"	13'10"	15'2"	13'3"	11'2"	11'2"
	16	19'1"	16'8"	14'1"	17'4"	15'2"	12'10"	16'1"	14'1"	11'11"	11'2"	15'2"	13'3"	11'2"	10'7"	13'9"	12'0"	10'2"	10'2"
	24	16'8"	14'7"	12'4"	15'2"	13'3"	11'2"	14'1"	12'4"	10'5"	13'3"	11'7"	9'9"	9'9"	9'3"	12'0"	10'6"	8'10"	8'10"
362S250-68	12	23'4"	20'4"	17'2"	21'2"	18'6"	15'7"	19'8"	17'2"	14'6"	16'6"	16'2"	13'8"	17'7"	15'4"	16'10"	14'8"	12'5"	12'5"
	16	21'2"	18'6"	15'7"	19'3"	16'10"	14'2"	17'10"	15'7"	13'2"	16'10"	14'8"	12'5"	16'0"	13'11"	15'3"	13'4"	11'3"	11'3"
	24	18'6"	16'2"	13'8"	16'10"	14'8"	12'5"	15'7"	13'8"	11'6"	14'8"	12'10"	10'10"	13'4"	11'8"	13'4"	11'8"	9'10"	9'10"
	12	18'4"	16'0"	13'6"	16'7"	14'6"	12'3"	15'5"	13'6"	11'4"	10'8"	14'1"	12'8"	10'8"	10'2"	12'2"	11'6"	11'6"	9'9"

"e" = web stiffeners required at ends.

See page 26 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.
- Web crippling check based on 1-inch end bearing. Where limiting heights are followed by "e", web stiffeners are required.
- For bending, studs are assumed to be adequately braced to develop full allowable moment capacity. Stud distortional buckling based on an assumed  $K\phi=0$ .
- Cells marked with an "\*" have  $h/t > 200$ , and thus require end stiffeners.
- 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.
- 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 "r" of IBC table 1604.3.
- Lateral loads have not been modified for strength checks. Full loads are applied.