

# Structural Performance Data

Premium 2-1/4" Multi-Slide Door (8725)

**WEATHER SHIELD.**

**WINDOWS & DOORS**

Unit Style	Model Number	Size Tested (total frame size)	Size Tested (Panel size)	AAMA/WDMA/CSA 101/I.S.2/A440-11	Design Pressure Rating (psf)	Structural Test Pressure (psf)	Water Performance (psf)	Air Infiltration (cfm/ft <sup>2</sup> )	Forced Entry Resistance	Data Valid Until
Multi-slide door 6-Panel Pocketing Bi-parting - High sill Riser <sup>1</sup>	8725	364-1/4"x120-1/8"	54"x116-15/16"	LC-PG30-SD	+/-30	+/-45	4.50	0.25	10 / C	4/19/2031
Multi-slide door 6-Panel Pocketing Bi-parting - Low sill Riser <sup>2</sup>	8725	364-1/4"x120-1/8"	54"x116-15/16"	LC-PG20-SD	+/-20	+/-30	3.00	0.25	10 / C	4/19/2031

Revised 10/20/21

Alternative sizing based on engineering analysis	Jamb Height (inch)	Structural Design Pressure (psf) for Panel Width (inch)							
		See notes 3-5 for water rating							
Single direction stacking doors up to 5 panels with or without pocket		30	36	42	48	54	60	66	72
	80	91.5	80.1	72.3	66.9	63.0	60.3	58.6	57.6
	84	85.9	75.0	67.5	62.2	58.3	55.6	53.7	52.5
	90	78.8	68.5	61.4	56.3	52.5	49.7	47.7	46.3
	96	72.7	63.0	56.3	51.4	47.7	45.0	43.0	-
	102	67.5	58.3	51.9	47.3	43.8	41.1	-	-
	108	63.0	54.3	48.2	43.8	40.4	37.8	-	-
	114	59.1	50.8	45.0	40.7	37.5	-	-	-
	120	55.6	47.7	42.2	38.1	35.0	-	-	-
	126	51.0	43.0	37.3	33.1	-	-	-	-
	132	44.1	37.1	32.2	28.5	-	-	-	-
	138	38.4	32.3	28.0	-	-	-	-	-
	144	33.7	28.3	24.5	-	-	-	-	-

- Notes:**
1. Panel widths with dash (-) have panel area greater than the tested panel.
  2. Panel Height for analysis is Door height - 3".
  3. **Positive design pressure is limited by water test to 50 psf with High Sill Riser (2-1/2").**
  4. **Positive design pressure is limited by water test to 20 psf with Low Sill Riser (1-1/2").**
  5. **Door installed where the overhang ratio  $\geq 1$  are not limited by water test pressure in accordance with FBC §2411.3.2.1.**
  6. Structural design pressures are not limited by glass strength.
  7. Example: 90" tall door with 48" wide panels  
Calculated Structural Design Pressure: 56.3 psf  
Installed with High Sill Riser (2-1/2"): DP=+50.0/-56.3 psf  
Installed with Low Sill Riser (1-1/2"): DP=+20.0/-56.3 psf  
Installed under overhang: DP=+56.3/-56.3 psf

Alternative sizing based on engineering analysis	Jamb Height (inch)	Structural Design Pressure (psf) for Panel Width (inch)							
		See notes 3-5 for water rating							
Bi-parting stacking doors up to 10 panels with or without pocket		30	36	42	48	54	60	66	72
	80	78.4	68.6	62.0	57.3	54.0	51.7	50.2	49.4
	84	73.6	64.3	57.9	53.3	50.0	47.6	46.0	45.0
	90	67.5	58.7	52.6	48.2	45.0	42.6	40.9	39.7
	96	62.3	54.0	48.2	44.0	40.9	38.6	36.8	-
	102	57.9	50.0	44.5	40.5	37.5	35.2	-	-
	108	54.0	46.6	41.3	37.5	34.6	32.4	-	-
	114	50.6	43.5	38.6	34.9	32.1	-	-	-
	120	47.6	40.9	36.2	32.7	30.0	-	-	-
	126	43.7	36.8	32.0	28.4	-	-	-	-
	132	37.8	31.8	27.6	24.4	-	-	-	-
	138	32.9	27.7	24.0	-	-	-	-	-
	144	28.9	24.3	21.0	-	-	-	-	-

- Notes:**
1. Panel widths with dash (-) have panel area greater than the tested panel.
  2. Panel Height for analysis is Door height - 3".
  3. **Positive design pressure is limited by water test to 40 psf with High Sill Riser (2-1/2").**
  4. **Positive design pressure is limited by water test to 20 psf with Low Sill Riser (1-1/2").**
  5. **Door installed where the overhang ratio  $\geq 1$  are not limited by water test pressure in accordance with FBC §2411.3.2.1.**
  6. Structural design pressures are not limited by glass strength.
  7. Example: 90" tall door with 48" wide panels  
Calculated Structural Design Pressure: 48.2 psf  
Installed with High Sill Riser (2-1/2"): DP=+40.0/-56.3 psf  
Installed with Low Sill Riser (1-1/2"): DP=+20.0/-56.3 psf  
Installed under overhang: DP=+48.2/-48.2 psf

<sup>1</sup>Units tested with 2.5" sill riser

<sup>2</sup>Units tested with 1.5" sill riser

