

Structural Performance Data

VUE Collection Direct-set Windows (4301)

WEATHER SHIELD.

WINDOWS & DOORS

Unit Style	Model Number	Size Tested (total frame size)	AAMA/WDMA/CSA 101/I.S.2/A440-17	Design Pressure Rating (psf)	Structural Test Pressure (psf)	Water Performance (psf)	Air Infiltration (cfm/ft ²)	Forced Entry Resistance Grade / Type	Data Valid Until
1-Wide Direct Set - Temp Glass	4301	84" x 84"	CW-PG100-FW	+/-100	+/-150	12.00 - US 15.00 - CA	0.04	10 / D	3/1/2031
2-Wide Direct Set	4301	72" x 96" Single 144" x 96" Mulled	LC-PG35-FW	+/-35	+/-52.5	5.25	0.01	10 / D	7/6/2031
1-Wide Direct Set - Temp Glass	4301	142" x 94"	CW-PG65-FW	+/-65	+/-97.5	9.75	0.03	10 / D	4/5/2031
2-Wide Direct Set - Aluminum mull reinforcement	4301	72.25" x 120" Single 145" x 120" Mulled	LC-PG35-FW	+/-35	+/-52.5	5.25	0.01	10 / D	7/6/2031
2-Wide Direct Set - Steel mull reinforcement	4301	93.625" x 141.75" Single 187.875" x 141.75" Mulled	LC-PG25-FW	+/-25	+/-37.5	3.75	0.01	10 / D	3/23/2032
3-Wide 2 High Direct Set - No mull reinforcement	4301	35.25" x 71.25" Single bottom row 35.25"x35.25" Single top row 105.75" x 106.5" Mulled	R-PG20-FW	+/-20	+/-30	3.00	0.01	10 / D	5/9/2032

Revised 8/4/22

See page 2 for alternative mull sizes

Direct-set Tight Mullion - No Reinforcement

Alternative mullion sizing based on signed & sealed engineering analysis	Mullion Span (inch)	Calculated Design Pressure - Allowable Stress Design (psf) for Average Window Width (inch)														
		See note 2 for water rating														
		28	32	36	40	44	48	52	56	60	64	68	72	76	80	84
60	202	181	165	154	145	139	135	132	131	131	131	131	131	131	131	
66	164	147	133	123	115	110	105	102	100	99	98	98	98	98	98	
72	137	122	110	101	94	89	85	81	79	77	76	76	76	76	76	
78	116	103	93	85	79	74	70	67	64	63	61	60	60	60	60	
84	99	88	79	72	67	62	59	56	54	52	50	49	48	48	48	
90	86	76	68	62	57	54	50	48	46	44	42	41	40	40	39	
96	74	65	59	53	49	46	43	41	39	37	36	35	34	33	33	
102	61	54	49	44	41	38	35	34	32	30	29	28	28	27	26	
108	51	45	41	37	34	32	30	28	26	25	24	23	23	22	21	
114	44	38	34	31	29	27	25	23	22	21	20	19	19	18	18	
120	37	33	29	27	24	23	21	20	19	18	17	16	16	15	15	
126	32	28	25	23	21	19	18	17	16	15	15					
132	28	25	22	20	18	17	16	15								
138	24	21	19	17	16	15										
144	21	19	17	15												

- Notes:**
1. Yellow shaded cells have panel area greater than test specimen. Not allowed for projects covered by *Florida Building Code, Building, 7th Edition (2020)*
 2. Blue shaded cells have design pressures greater than allowed by 8.35 psf water test. Positive design pressure of these sizes limited to +55 psf.
 - a. Ex: 78" window height with 60" average window width
Calculated Structural Design Pressure: DP=+55/-64
 3. FL and TX signed & sealed documents available

Direct-set - Aluminum Reinforced Mullion

Alternative mullion sizing based on signed & sealed engineering analysis	Mullion Span (inch)	Calculated Design Pressure - Allowable Stress Design (psf) for Average Window Width (inch)														
		See note 2 for water rating														
		40	44	48	52	56	60	64	68	72	76	80	84	88	92	96
72	172	160	151	144	138	134	131	129	128	128	128	128	128	128	128	
78	144	133	125	119	113	109	106	104	102	101	101	101	101	101	101	
84	122	113	106	100	95	91	88	85	83	82	81	81	81	81	81	
90	106	97	91	85	81	77	74	72	70	68	67	66	66	66	66	
96	92	85	79	74	70	66	64	61	59	58	56	55	55	54	54	
102	81	74	69	65	61	58	55	53	51	50	48	47	46	46	45	
108	72	66	61	57	54	51	48	46	45	43	42	41	40	39	39	
114	64	59	54	51	48	45	43	41	39	38	37	36	35	34	34	
120	57	52	48	45	42	40	38	36	35	34	33	32	31	30	29	
126	49	45	42	39	36	34	33	31	30	29	28	27	26	26	25	
132	42	39	36	33	31	30	28	27	26	25	24	23	22	22	21	
138	37	34	31	29	27	26	24	23	22	21	21	20	19	19	18	
144	33	30	27	26	24	23	21	20	19	19	18	17	17	16	16	
150	29	26	24	23	21	20	19	18	17	16	16	15	15			
156	25	23	21	20	19	18	17	16	15							

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 2. Blue shaded cells have design pressures greater than allowed by 8.35 psf water test. Positive design pressure of these sizes limited to +55 psf.
 - a. Ex: 90" window height with 72" average window width
Calculated Structural Design Pressure: DP=+55/-70
 3. FL and TX signed & sealed documents available

Direct-set - Steel Reinforced Mullion

Alternative mullion sizing based on signed & sealed engineering analysis	Mullion Span (inch)	Calculated Design Pressure - Allowable Stress Design (psf) for Average Window Width (inch)														
		See note 2 for water rating														
		40	44	48	52	56	60	64	68	72	76	80	84	88	92	96
72	217	203	191	182	175	170	166	164	163	163	163	163	163	163	163	
78	182	169	159	150	143	138	134	131	129	128	128	128	128	128	128	
84	155	143	134	126	120	115	111	108	106	104	103	102	102	102	102	
90	134	123	115	108	102	98	94	91	88	86	85	84	83	83	83	
96	117	107	100	94	88	84	81	78	75	73	72	70	69	69	69	
102	103	94	87	82	77	73	70	67	65	63	61	60	59	58	58	
108	91	83	77	72	68	64	61	59	57	55	53	52	51	50	49	
114	81	74	69	64	60	57	54	52	50	48	47	45	44	43	43	
120	73	67	62	58	54	51	48	46	44	43	41	40	39	38	37	
126	66	60	56	52	49	46	44	41	40	38	37	36	35	34	33	
132	60	55	51	47	44	42	39	37	36	34	33	32	31	30	29	
138	55	50	46	43	40	38	36	34	32	31	30	29	28	27	26	
144	49	44	41	38	36	34	32	30	29	28	27	26	25	24	24	
150	43	39	36	34	31	30	28	27	25	24	23	23	22	21	21	
156	38	35	32	30	28	26	25	24	22	21	21	20	19	19	18	

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 - a. Ex: 90" window height with 72" average window width
Calculated Structural Design Pressure: DP=+55/-88
 3. FL and TX signed & sealed documents available