

MMSD Analysis (for WDMA Certification and FL28429)

October 16, 2025

Product Description: Modern Multi-Slide Door

Manufacturer: Marvin, Warroad, MN

Statement of Compliance: Comparative analysis was performed on this product in compliance with AAMA 2502, Florida Building Code section 1709.5.1, and I.S. 11, in order to obtain WDMA Certification on the analyzed configurations up to 12' heights (the 10' heights are already approved and Certified).

Technical Documentation:

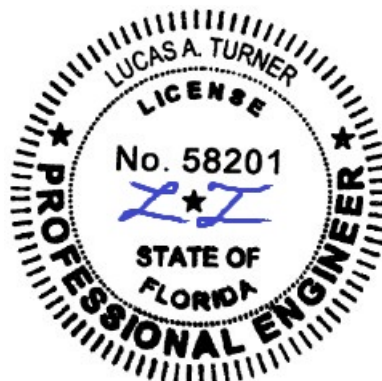
- 1) This report, prepared by Lucas A. Turner, P.E., at 2428 Old Natchez Trc Trl, Camden, TN
- 2) Current WDMA CCL Certification documents on this product
- 3) Test Reports I6450/1/2/3.01-201-44-r0, I8280/1.01-201-44-r0, Q6761.01-201-47, Q7326.01-201-47, Q7692.01-201-47, and S4059.01-201-47 from Intertek, St. Paul, MN, with testing performed: AAMA/WDMA/CSA 101/I.S.2/A440-08/11/17

Installation: Units must be installed according to approval documents as noted in FL28429. The analysis indicated in this report is applicable for installations using as-tested drawings provided by Marvin for wood substrates, or alternate substrate drawings engineered by TE&C.

Analysis:

- See attached final output tables for both currently-approved configurations and also for the analyzed configurations.
- Sample calculations are provided indicative of analysis performed
- Is non-impact and requires the use of shutters in windborne debris regions
- May not be used in the High Velocity Hurricane Zone
- Requires glass fiber reinforced polyurethane and 6063-T5 aluminum framing as indicated in test reports listed above

Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Marvin or in any company manufacturing or distributing products for which this report is being issued. I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.



Lucas Turner
2025.10.16
14:51:20 -05'00'

10/16/2025
Lucas A. Turner, P.E.
FL PE #58201

CONFIGURATION	FRAME WIDTH <i>STACKED</i> OVERALL FRAME OM <i>POCKET</i>	PANEL WIDTH	DESIGNATI ON	FRAME HEIGHT	DP RATING <i>PERF. SILL</i>	DESIGNATION	SYSTEM HEIGHT	DP RATING <i>HIGH PERF. SILL</i>
OX or XO	143 11/16	72 3/8	MMSD STK	120	+45/-45	MMSD STK HP	121 3/4	+45/-45
OXX or XXO	212 13/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXX or XXXO	281 15/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXXX or XXXXO	351 1/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXXXX or XXXXXO	420 3/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OX-XO	285 3/4	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXX-XXO	424	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXXX-XXXO	562 1/4	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXXXX-XXXXO	700 1/2	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OX-XO	237 3/4	60 3/8	MMSD STK	120	+40/-45	MMSD STK HP	121 3/4	+40/-45
OXX-XXO	340	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXX-XXXO	466 1/4	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXXX-XXXXO	580 1/2	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OOX or XOO	216 5/8	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OOOX or XOOO	289 9/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OX-O or O-XO	216 5/8	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OX-O or O-XO	180 5/8	60 3/8	MMSD STK	120	+40/-45	MMSD STK HP	121 3/4	+40/-45
OX-XOO or OOX-XO	358 11/16	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OX-XOO or OOX-XO	298 11/16	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
XOX (1:2:1)	187 7/8	(X) 47 13/16 (O) 96 1/4	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
XOOX	285 3/4	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXX-O or O-XXO	285 3/4	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXX-O or O-XXO	237 11/16	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXX-XO or OX-XXO	354 7/8	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXX-XO or OX-XXO	294 7/8	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
XP or PX	150 11/16	72 3/8	MMSD PKT	120	NA	MMSD PKT HP	121 3/4	+50/-45
XXP or PXX	219 7/16	72 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+50/-45
XXXXP or PXXXX	288 9/16	72 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+40/-40
XXXXP or PXXXX	357 11/16	72 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+40/-40
XXXXXP or PXXXXX	426 13/16	72 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+40/-40
XXXXXXP or PXXXXXX	495 15/16	72 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+40/-40
PX-XP	299 13/16	72 3/8	MMSD PKT	120	NA	MMSD PKT HP	121 3/4	+35/-35
PXX-XXP	437 1/4	72 3/8	MMSD PKT	120	+35/-35	MMSD PKT HP	121 3/4	+35/-35
PXXX-XXXP	575 1/2	72 3/8	MMSD PKT	120	+35/-35	MMSD PKT HP	121 3/4	+35/-35
PXXXX-XXXXP	713 3/4	72 3/8	MMSD PKT	120	+35/-35	MMSD PKT HP	121 3/4	+35/-35
PXXXXX-XXXXXP	852	72 3/8	MMSD PKT	120	+35/-35	MMSD PKT HP	121 3/4	+35/-35
PX-XP	251 13/16	60 3/8	MMSD PKT	120	NA	MMSD PKT HP	121 3/4	+40/-45
PXX-XXP	365 1/4	60 3/8	MMSD PKT	120	+40/-45	MMSD PKT HP	121 3/4	+40/-45
PXXX-XXXP	479 1/2	60 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+40/-40
PXXXX-XXXXP	593 3/4	60 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+40/-40
PXXXXX-XXXXXP	708	60 3/8	MMSD PKT	120	+40/-40	MMSD PKT HP	121 3/4	+40/-40

CONFIGURATION	FRAME WIDTH <i>STACKED</i> OVERALL FRAME OM <i>POCKET</i>	PANEL WIDTH	DESIGNATI ON	FRAME HEIGHT	DP RATING <i>PERF. SILL</i>	DESIGNATION	SYSTEM HEIGHT	DP RATING <i>HIGH PERF. SILL</i>
OX or XO	119 11/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXX or XXO	176 13/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXX or XXXO	233 15/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXXX or XXXXO	291 1/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXXXX or XXXXXO	348 3/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OX-XO	237 3/4	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXX-XXO	352	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXXX-XXXO	466 1/4	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXXXX-XXXXO	580 1/2	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OX-XO	189 3/4	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXX-XXO	280	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXX-XXXO	370 1/4	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXXX-XXXXO	460 1/2	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OOX or XOO	180 5/8	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OOOX or XOOO	241 9/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OX-O or O-XO	180 5/8	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OX-O or O-XO	144 5/8	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OX-XOO or OOX-XO	298 11/16	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OX-XOO or OOX-XO	238 11/16	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
XOX (1:2:1)	139 15/16	(X) 35 13/16 (O) 72 1/4	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
XOOX	237 3/4	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXX-O or O-XXO	237 3/4	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXX-O or O-XXO	189 3/4	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXX-XO or OX-XXO	294 7/8	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXX-XO or OX-XXO	234 7/8	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
XP or PX	125 15/16	60 13/32	MMSD PKT	144	NA	MMSD PKT HP	145 3/4	+30/-25
XXP or PXX	183 7/16	60 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+30/-25
XXXP or PXXX	240 9/16	60 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25
XXXXP or PXXXX	297 11/16	60 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25
XXXXXP or PXXXXX	354 13/16	60 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25
XXXXXXP or PXXXXXX	411 15/16	60 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25
PX-XP	250 1/4	60 13/32	MMSD PKT	144	NA	MMSD PKT HP	145 3/4	+20/-20
PXX-XXP	365 1/4	60 13/32	MMSD PKT	144	+20/-20	MMSD PKT HP	145 3/4	+20/-20
PXXX-XXXP	479 1/2	60 13/32	MMSD PKT	144	+20/-20	MMSD PKT HP	145 3/4	+20/-20
PXXXX-XXXXP	593 3/4	60 13/32	MMSD PKT	144	+20/-20	MMSD PKT HP	145 3/4	+20/-20
PXXXXX-XXXXXP	708	60 13/32	MMSD PKT	144	+20/-20	MMSD PKT HP	145 3/4	+20/-20
PX-XP	202 1/4	48 13/32	MMSD PKT	144	NA	MMSD PKT HP	145 3/4	+25/-25
PXX-XXP	293 1/4	48 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25
PXXX-XXXP	383 1/2	48 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25
PXXXX-XXXXP	473 3/4	48 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25
PXXXXX-XXXXXP	564	48 13/32	MMSD PKT	144	+25/-25	MMSD PKT HP	145 3/4	+25/-25

CONFIGURATION	FRAME WIDTH <i>STACKED OVERALL FRAME OM POCKET</i>	PANEL WIDTH	DESIGNATI ON	FRAME HEIGHT	DP RATING <i>PERF. SILL</i>	DESIGNATION	SYSTEM HEIGHT	DP RATING <i>HIGH PERF. SILL</i>
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Certified Sizes

OX or XO	143 11/16	72 3/8	MMSD STK	120	+45/-45	MMSD STK HP	121 3/4	+45/-45
OXX or XXO	212 13/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXX or XXXO	281 15/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXXX or XXXXO	351 1/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXXXX or XXXXXO	420 3/16	72 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40

Analyzed Sizes

OX or XO	119 11/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXX or XXO	176 13/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXX or XXXO	233 15/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXXX or XXXXO	291 1/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXXXX or XXXXXO	348 3/16	60 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25

Window Design Pressure Analysis per AAMA 2502 and I.S. 11

		Test Date:			Glass Limited:	TRUE	Allow Rational:	TRUE
Test Report:					# of Panels:	2.000		
Tested Nominal Panel Width:	144.000				Tested Design Pressure (-):	40.00	(psf)	
Tested Height:	120.000				Tested Design Pressure (+):	40.00	(psf)	
Product:	MMSD				Tested Water:	6.00	(psf)	
Glass Thickness:	3/16"		Type:	Tempered IG				
Comments/Config.:		2-panel analysis also qualifies multi-panel						

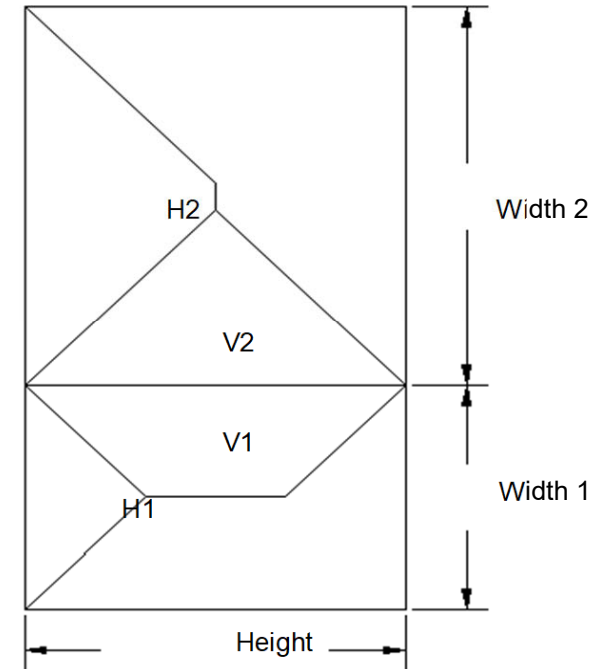
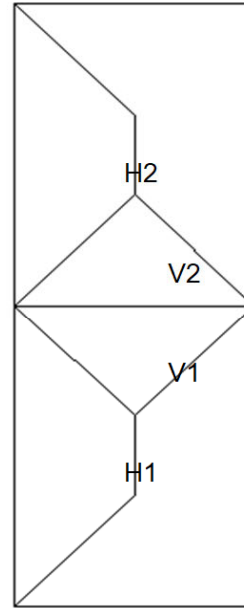
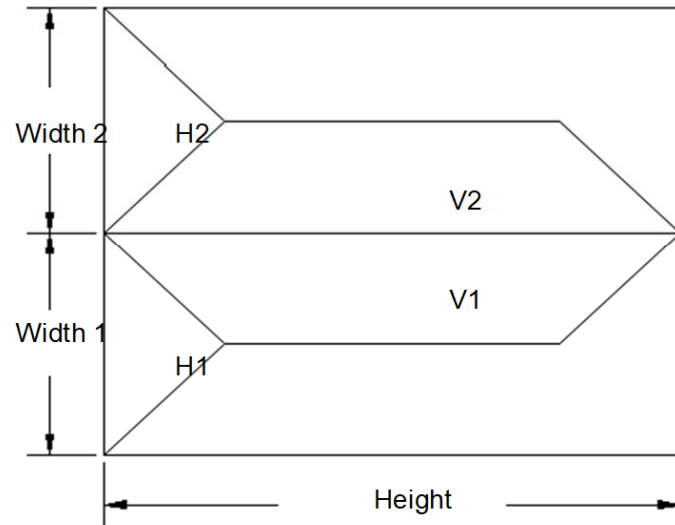
	# of Panels:	Nominal Panel Widths	Heights									
			1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	144.000
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2.000	120.000	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-25.7
			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	25.7

Negative Calculations:	Lite Width (in.)	Lite Height (in.)	Load Area, (sq. ft)	K	K _D	K _f	Fiberstress (f) (psf)	Deflection (D) (psf)	Conc. (C) (psf)
Tested Vertical, Area 1	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 1	60.000	144.000	23.750	0.21	65.28	6.72			
Tested Vertical, Area 2	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 2	60.000	144.000	23.750	0.21	65.28	6.72	31.15	25.70	35.37
Tested Horiz., Area 1	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 1	60.000	144.000	6.250	0.50	60.00	6.00			
Tested Horiz., Area 2	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 2	60.000	144.000	6.250	0.50	60.00	6.00	69.12	82.94	57.60
							Neg. Comp. Analysis Pressure: 25.70		

Positive Calculations:	Lite Width (in.)	Lite Height (in.)	Load Area, (sq. ft)	K	K _D	K _f	Fiberstress (f) (psf)	Deflection (D) (psf)	Conc. (C) (psf)
Tested Vertical, Area 1	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 1	60.000	144.000	23.750	0.21	65.28	6.72			
Tested Vertical, Area 2	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 2	60.000	144.000	23.750	0.21	65.28	6.72	31.15	25.70	35.37
Tested Horiz., Area 1	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 1	60.000	144.000	6.250	0.50	60.00	6.00			
Tested Horiz., Area 2	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 2	60.000	144.000	6.250	0.50	60.00	6.00	69.12	82.94	57.60
							Pos. Comp. Analysis Pressure: 25.70		

SAMPLE COMPARATIVE ANALYSIS CALCULATION

Example Configurations (some may be sideways from actual):



H1 = Horizontal, Area 1, H2 = Horizontal, Area 2, V1 = Vertical, Area 1, V2 = Vertical, Area 2

Overall Sizes:

Tested Height = THeight : 120 in.
 Tested Width 1 = TWidth1 : 72 in.
 Tested Width 2 = TWidth2 : 72 in.

Comp. Analysis Height = CAHeight : 120 in.
 Comp. Analysis Width 1 = CAWidth1 : 60 in.
 Comp. Analysis Width 2 = CAWidth2 : 60 in.

Load Areas:

Tested Vertical, Area 1 = TV1 : 21.000 in.²
 Tested Vertical, Area 2 = TV2 : 21.000 in.²
 Tested Horiz., Area 1 = TH1 : 9.000 in.²
 Tested Horiz., Area 2 = TH2 : 9.000 in.²

Comp Analysis Vert., Area 1 = CAV1 : 23.750 in.²
 Comp Analysis Vert., Area 2 = CAV2 : 23.750 in.²
 Comp Analysis Horiz., Area 1 = CAH1 : 6.250 in.²
 Comp Analysis Horiz., Area 2 = CAH2 : 6.250 in.²

K Factors:

Tested	K	Kd	Kf	Comp Analysis	K	Kd	Kf
Vert. Area 1 :	0.30	62.40	6.36	Vert. Area 1 :	0.21	65.28	6.72
Vert. Area 2 :	0.30	62.40	6.36	Vert. Area 2 :	0.21	65.28	6.72
Horiz. Area 1 :	0.50	60.00	6.00	Horiz. Area 1 :	0.50	60.00	6.00
Horiz. Area 2 :	0.50	60.00	6.00	Horiz. Area 2 :	0.50	60.00	6.00

$$K_D = -666.66666 \cdot K^5 + 916.66666 \cdot K^4 - 483.33333 \cdot K^3 + 190.83333 \cdot K^2 - 81.1 \cdot K + 76.8$$

$$K_f = 8.33333 \cdot K^4 - 8.33333 \cdot K^3 + 9.9166666 \cdot K^2 - 7.9166666 \cdot K + 8$$

Nomenclature:

KfTH1 = Kf factor from Tested Horiz. Area 1

KdCAV1 = Kd factor from Comparative Analysis Vertical Area 1, etc.

Ptest = Positive or Negative Tested Pressure (Negative values used below)

Pca = Comparative Analysis Test Pressure

Pressures from Fiber Stress Calculation:

Vertical

$$P_{ca} = \frac{P_{test} \cdot T_{Height} \cdot (TV1 \cdot K_{fTV2} + TV2 \cdot K_{fTV1}) \cdot K_{fCAV1} \cdot K_{fCAV2}}{CA_{Height} \cdot (CAV1 \cdot K_{fCAV2} + CAV2 \cdot K_{fCAV1}) \cdot K_{fTV1} \cdot K_{fTV2}} = 31.15 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1 \cdot T_{Width1} \cdot K_{fCAH1}}{CAH1 \cdot CA_{Width1} \cdot K_{fTH1}} = 69.12 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2 \cdot T_{Width2} \cdot K_{fCAH2}}{CAH2 \cdot CA_{Width2} \cdot K_{fTH2}} = 69.12 \text{ psf}$$

Pressures from Deflection Calculation:

Vertical

$$P_{ca} = \frac{P_{test} \cdot (T_{Height}^2) \cdot (TV1 \cdot K_{dTV2} + TV2 \cdot K_{dTV1}) \cdot K_{dCAV1} \cdot K_{dCAV2}}{(CA_{Height}^2) \cdot (CAV1 \cdot K_{dCAV2} + CAV2 \cdot K_{dCAV1}) \cdot K_{dTV1} \cdot K_{dTV2}} = 25.70 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1 \cdot (T_{Width1}^2) \cdot K_{dCAH1}}{CAH1 \cdot (CA_{Width1}^2) \cdot K_{dTH1}} = 82.94 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2 \cdot (T_{Width2}^2) \cdot K_{dCAH2}}{CAH2 \cdot (CA_{Width2}^2) \cdot K_{dTH2}} = 82.94 \text{ psf}$$

Pressures from Concentrated Stress Calculations:

Vertical

$$P_{ca} = \frac{P_{test} \cdot (TV1 + TV2)}{(CAV1 + CAV2)} = 35.37 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1}{CAH1} = 57.60 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2}{CAH2} = 57.60 \text{ psf}$$

Pressure from E1300 Glass Calculations:

Pane with Area 1 Regions : 133.9 psf
 Pane with Area 2 Regions (if applicable) : psf

Comparative Analysis Pressure (Minimum of all Pressures Calculated Above): 25.7

CONFIGURATION	FRAME WIDTH <i>STACKED OVERALL FRAME OM POCKET</i>	PANEL WIDTH	DESIGNATI ON	FRAME HEIGHT	DP RATING <i>PERF. SILL</i>	DESIGNATION	SYSTEM HEIGHT	DP RATING <i>HIGH PERF. SILL</i>
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Certified Sizes

OX-XO	285 3/4	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXX-XXO	424	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXXX-XXXO	562 1/4	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35
OXXXX-XXXXO	700 1/2	72 3/8	MMSD STK	120	+35/-35	MMSD STK HP	121 3/4	+35/-35

Analyzed Sizes

OX-XO	237 3/4	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXX-XXO	352	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXXX-XXXO	466 1/4	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20
OXXXX-XXXXO	580 1/2	60 13/32	MMSD STK	144	+20/-20	MMSD STK HP	145 3/4	+20/-20

Window Design Pressure Analysis per AAMA 2502 and I.S. 11

		Test Date:			Glass Limited:	TRUE	Allow Rational:	TRUE
Test Report:					# of Panels:	2.000		
Tested Nominal Panel Width:	144.000				Tested Design Pressure (-):	35.00	(psf)	
Tested Height:	120.000				Tested Design Pressure (+):	35.00	(psf)	
Product:	MMSD				Tested Water:	5.25	(psf)	
Glass Thickness:	3/16"		Type:	Tempered IG				
Comments/Config.:		2-panel analysis also qualifies multi-panel						

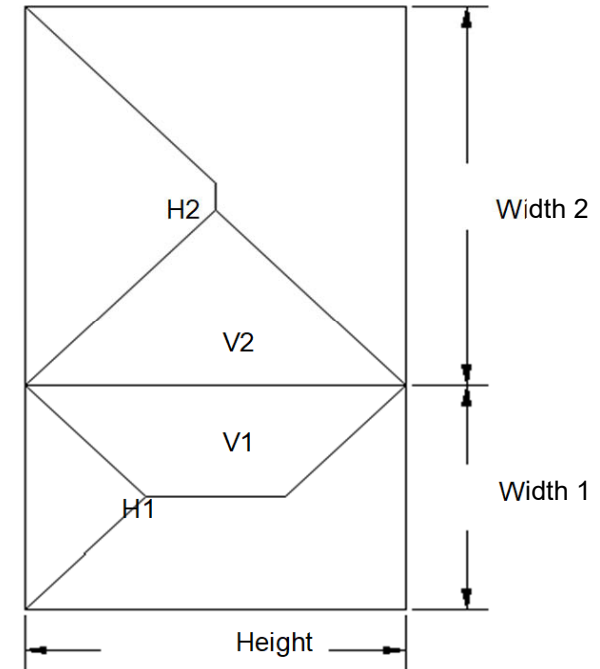
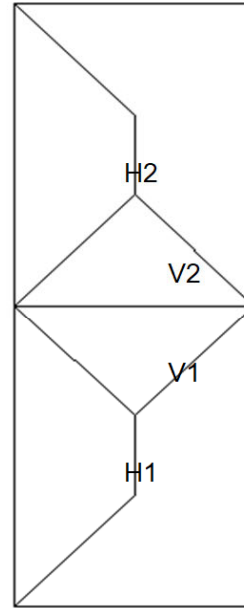
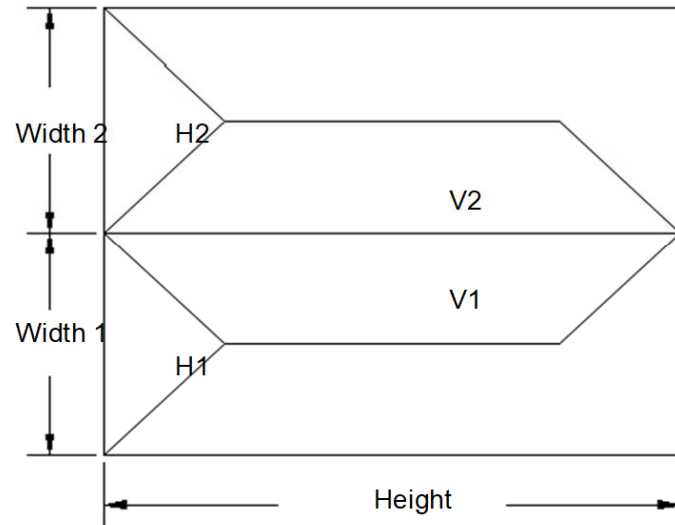
	# of Panels:	Nominal Panel Widths	Heights									
			1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	144.000
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2.000	120.000	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-22.5
			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	22.5

Negative Calculations:	Lite Width (in.)	Lite Height (in.)	Load Area, (sq. ft)	K	K _D	K _f	Fiberstress (f) (psf)	Deflection (D) (psf)	Conc. (C) (psf)
Tested Vertical, Area 1	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 1	60.000	144.000	23.750	0.21	65.28	6.72			
Tested Vertical, Area 2	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 2	60.000	144.000	23.750	0.21	65.28	6.72	27.26	22.48	30.95
Tested Horiz., Area 1	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 1	60.000	144.000	6.250	0.50	60.00	6.00			
Tested Horiz., Area 2	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 2	60.000	144.000	6.250	0.50	60.00	6.00	60.48	72.58	50.40
							Neg. Comp. Analysis Pressure: 22.48		

Positive Calculations:	Lite Width (in.)	Lite Height (in.)	Load Area, (sq. ft)	K	K _D	K _f	Fiberstress (f) (psf)	Deflection (D) (psf)	Conc. (C) (psf)
Tested Vertical, Area 1	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 1	60.000	144.000	23.750	0.21	65.28	6.72			
Tested Vertical, Area 2	72.000	120.000	21.000	0.30	62.40	6.36			
Comp Analysis Vert., Area 2	60.000	144.000	23.750	0.21	65.28	6.72	27.26	22.48	30.95
Tested Horiz., Area 1	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 1	60.000	144.000	6.250	0.50	60.00	6.00			
Tested Horiz., Area 2	72.000	120.000	9.000	0.50	60.00	6.00			
Comp Analysis Horiz., Area 2	60.000	144.000	6.250	0.50	60.00	6.00	60.48	72.58	50.40
							Pos. Comp. Analysis Pressure: 22.48		

SAMPLE COMPARATIVE ANALYSIS CALCULATION

Example Configurations (some may be sideways from actual):



H1 = Horizontal, Area 1, H2 = Horizontal, Area 2, V1 = Vertical, Area 1, V2 = Vertical, Area 2

Overall Sizes:

Tested Height = THeight : 120 in.
 Tested Width 1 = TWidth1 : 72 in.
 Tested Width 2 = TWidth2 : 72 in.

Comp. Analysis Height = CAHeight : 120 in.
 Comp. Analysis Width 1 = CAWidth1 : 60 in.
 Comp. Analysis Width 2 = CAWidth2 : 60 in.

Load Areas:

Tested Vertical, Area 1 = TV1 : 21.000 in.²
 Tested Vertical, Area 2 = TV2 : 21.000 in.²
 Tested Horiz., Area 1 = TH1 : 9.000 in.²
 Tested Horiz., Area 2 = TH2 : 9.000 in.²

Comp Analysis Vert., Area 1 = CAV1 : 23.750 in.²
 Comp Analysis Vert., Area 2 = CAV2 : 23.750 in.²
 Comp Analysis Horiz., Area 1 = CAH1 : 6.250 in.²
 Comp Analysis Horiz., Area 2 = CAH2 : 6.250 in.²

K Factors:

Tested	K	Kd	Kf	Comp Analysis	K	Kd	Kf
Vert. Area 1 :	0.30	62.40	6.36	Vert. Area 1 :	0.21	65.28	6.72
Vert. Area 2 :	0.30	62.40	6.36	Vert. Area 2 :	0.21	65.28	6.72
Horiz. Area 1 :	0.50	60.00	6.00	Horiz. Area 1 :	0.50	60.00	6.00
Horiz. Area 2 :	0.50	60.00	6.00	Horiz. Area 2 :	0.50	60.00	6.00

$$K_D = -666.66666 \cdot K^5 + 916.66666 \cdot K^4 - 483.33333 \cdot K^3 + 190.83333 \cdot K^2 - 81.1 \cdot K + 76.8$$

$$K_f = 8.33333 \cdot K^4 - 8.33333 \cdot K^3 + 9.9166666 \cdot K^2 - 7.9166666 \cdot K + 8$$

Nomenclature:

KfTH1 = Kf factor from Tested Horiz. Area 1

KdCAV1 = Kd factor from Comparative Analysis Vertical Area 1, etc.

Ptest = Positive or Negative Tested Pressure (Negative values used below)

Pca = Comparative Analysis Test Pressure

Pressures from Fiber Stress Calculation:

Vertical

$$P_{ca} = \frac{P_{test} \cdot T_{height} \cdot (TV1 \cdot K_{fTV2} + TV2 \cdot K_{fTV1}) \cdot K_{fCAV1} \cdot K_{fCAV2}}{CA_{height} \cdot (CAV1 \cdot K_{fCAV2} + CAV2 \cdot K_{fCAV1}) \cdot K_{fTV1} \cdot K_{fTV2}} = 27.26 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1 \cdot T_{width1} \cdot K_{fCAH1}}{CAH1 \cdot CA_{width1} \cdot K_{fTH1}} = 60.48 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2 \cdot T_{width2} \cdot K_{fCAH2}}{CAH2 \cdot CA_{width2} \cdot K_{fTH2}} = 60.48 \text{ psf}$$

Pressures from Deflection Calculation:

Vertical

$$P_{ca} = \frac{P_{test} \cdot (T_{height}^2) \cdot (TV1 \cdot K_{dTV2} + TV2 \cdot K_{dTV1}) \cdot K_{dCAV1} \cdot K_{dCAV2}}{(CA_{height}^2) \cdot (CAV1 \cdot K_{dCAV2} + CAV2 \cdot K_{dCAV1}) \cdot K_{dTV1} \cdot K_{dTV2}} = 22.48 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1 \cdot (T_{width1}^2) \cdot K_{dCAH1}}{CAH1 \cdot (CA_{width1}^2) \cdot K_{dTH1}} = 72.58 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2 \cdot (T_{width2}^2) \cdot K_{dCAH2}}{CAH2 \cdot (CA_{width2}^2) \cdot K_{dTH2}} = 72.58 \text{ psf}$$

Pressures from Concentrated Stress Calculations:

Vertical

$$P_{ca} = \frac{P_{test} \cdot (TV1 + TV2)}{(CAV1 + CAV2)} = 30.95 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1}{CAH1} = 50.40 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2}{CAH2} = 50.40 \text{ psf}$$

Pressure from E1300 Glass Calculations:

Pane with Area 1 Regions :	133.9 psf
Pane with Area 2 Regions (if applicable) :	psf

Comparative Analysis Pressure (Minimum of all Pressures Calculated Above): 22.5

CONFIGURATION	FRAME WIDTH <i>STACKED OVERALL FRAME OM POCKET</i>	PANEL WIDTH	DESIGNATI ON	FRAME HEIGHT	DP RATING <i>PERF. SILL</i>	DESIGNATION	SYSTEM HEIGHT	DP RATING <i>HIGH PERF. SILL</i>
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Certified Sizes

OX-XO	237 3/4	60 3/8	MMSD STK	120	+40/-45	MMSD STK HP	121 3/4	+40/-45
OXX-XXO	340	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXX-XXXO	466 1/4	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40
OXXXX-XXXXO	580 1/2	60 3/8	MMSD STK	120	+40/-40	MMSD STK HP	121 3/4	+40/-40

Analyzed Sizes

OX-XO	189 3/4	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXX-XXO	280	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXX-XXXO	370 1/4	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25
OXXXX-XXXXO	460 1/2	48 13/32	MMSD STK	144	+25/-25	MMSD STK HP	145 3/4	+25/-25

Window Design Pressure Analysis per AAMA 2502 and I.S. 11

		Test Date:			Glass Limited:	TRUE	Allow Rational:	TRUE
Test Report:					# of Panels:	2.000		
Tested Nominal Panel Width:	120.000				Tested Design Pressure (-):	40.00	(psf)	
Tested Height:	120.000				Tested Design Pressure (+):	40.00	(psf)	
Product:	MMSD				Tested Water:	6.00	(psf)	
Glass Thickness:	3/16"		Type:	Tempered IG				
Comments/Config.:		2-panel analysis also qualifies multi-panel						

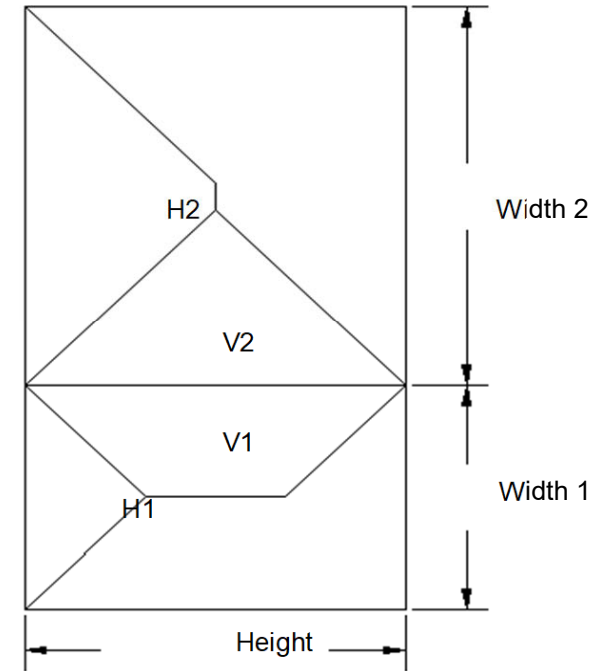
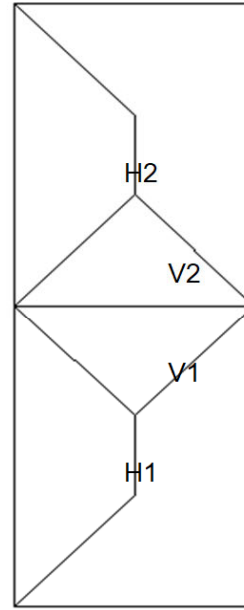
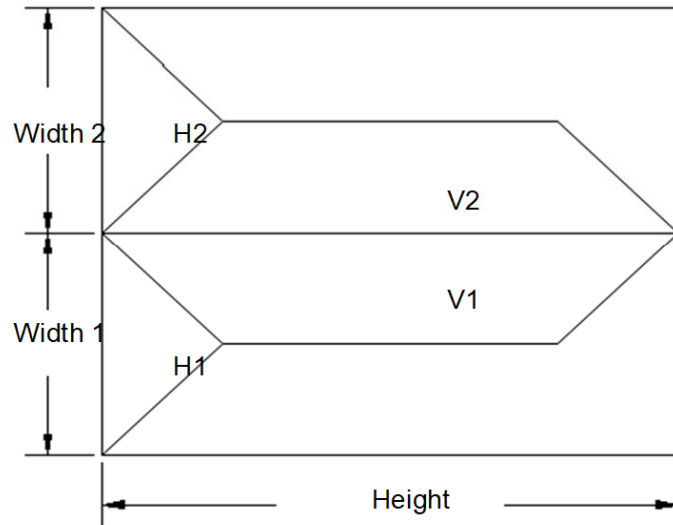
	# of Panels:	Nominal Panel Widths	Heights									
			1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	1000.000	144.000
			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.000	1000.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2.000	96.000	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-27.3
			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	27.3

Negative Calculations:	Lite Width (in.)	Lite Height (in.)	Load Area, (sq. ft)	K	K _D	K _f	Fiberstress (f) (psf)	Deflection (D) (psf)	Conc. (C) (psf)
Tested Vertical, Area 1	60.000	120.000	18.750	0.25	63.83	6.54			
Comp Analysis Vert., Area 1	48.000	144.000	20.000	0.17	66.97	6.92			
Tested Vertical, Area 2	60.000	120.000	18.750	0.25	63.83	6.54			
Comp Analysis Vert., Area 2	48.000	144.000	20.000	0.17	66.97	6.92	33.07	27.32	37.50
Tested Horiz., Area 1	60.000	120.000	6.250	0.50	60.00	6.00			
Comp Analysis Horiz., Area 1	48.000	144.000	4.000	0.50	60.00	6.00			
Tested Horiz., Area 2	60.000	120.000	6.250	0.50	60.00	6.00			
Comp Analysis Horiz., Area 2	48.000	144.000	4.000	0.50	60.00	6.00	78.13	97.66	62.50
							Neg. Comp. Analysis Pressure: 27.32		

Positive Calculations:	Lite Width (in.)	Lite Height (in.)	Load Area, (sq. ft)	K	K _D	K _f	Fiberstress (f) (psf)	Deflection (D) (psf)	Conc. (C) (psf)
Tested Vertical, Area 1	60.000	120.000	18.750	0.25	63.83	6.54			
Comp Analysis Vert., Area 1	48.000	144.000	20.000	0.17	66.97	6.92			
Tested Vertical, Area 2	60.000	120.000	18.750	0.25	63.83	6.54			
Comp Analysis Vert., Area 2	48.000	144.000	20.000	0.17	66.97	6.92	33.07	27.32	37.50
Tested Horiz., Area 1	60.000	120.000	6.250	0.50	60.00	6.00			
Comp Analysis Horiz., Area 1	48.000	144.000	4.000	0.50	60.00	6.00			
Tested Horiz., Area 2	60.000	120.000	6.250	0.50	60.00	6.00			
Comp Analysis Horiz., Area 2	48.000	144.000	4.000	0.50	60.00	6.00	78.13	97.66	62.50
							Pos. Comp. Analysis Pressure: 27.32		

SAMPLE COMPARATIVE ANALYSIS CALCULATION

Example Configurations (some may be sideways from actual):



H1 = Horizontal, Area 1, H2 = Horizontal, Area 2, V1 = Vertical, Area 1, V2 = Vertical, Area 2

Overall Sizes:

Tested Height = THeight : 120 in.
 Tested Width 1 = TWidth1 : 60 in.
 Tested Width 2 = TWidth2 : 60 in.

Comp. Analysis Height = CAHeight : 120 in.
 Comp. Analysis Width 1 = CAWidth1 : 48 in.
 Comp. Analysis Width 2 = CAWidth2 : 48 in.

Load Areas:

Tested Vertical, Area 1 = TV1 : 18.750 in.²
 Tested Vertical, Area 2 = TV2 : 18.750 in.²
 Tested Horiz., Area 1 = TH1 : 6.250 in.²
 Tested Horiz., Area 2 = TH2 : 6.250 in.²

Comp Analysis Vert., Area 1 = CAV1 : 20.000 in.²
 Comp Analysis Vert., Area 2 = CAV2 : 20.000 in.²
 Comp Analysis Horiz., Area 1 = CAH1 : 4.000 in.²
 Comp Analysis Horiz., Area 2 = CAH2 : 4.000 in.²

K Factors:

Tested	K	Kd	Kf	Comp Analysis	K	Kd	Kf
Vert. Area 1 :	0.25	63.83	6.54	Vert. Area 1 :	0.17	66.97	6.92
Vert. Area 2 :	0.25	63.83	6.54	Vert. Area 2 :	0.17	66.97	6.92
Horiz. Area 1 :	0.50	60.00	6.00	Horiz. Area 1 :	0.50	60.00	6.00
Horiz. Area 2 :	0.50	60.00	6.00	Horiz. Area 2 :	0.50	60.00	6.00

$$K_D = -666.66666 \cdot K^5 + 916.66666 \cdot K^4 - 483.33333 \cdot K^3 + 190.83333 \cdot K^2 - 81.1 \cdot K + 76.8$$

$$K_f = 8.33333 \cdot K^4 - 8.33333 \cdot K^3 + 9.9166666 \cdot K^2 - 7.9166666 \cdot K + 8$$

Nomenclature:

KfTH1 = Kf factor from Tested Horiz. Area 1

KdCAV1 = Kd factor from Comparative Analysis Vertical Area 1, etc.

Ptest = Positive or Negative Tested Pressure (Negative values used below)

Pca = Comparative Analysis Test Pressure

Pressures from Fiber Stress Calculation:

Vertical

$$P_{ca} = \frac{P_{test} \cdot T_{height} \cdot (TV1 \cdot K_{fTV2} + TV2 \cdot K_{fTV1}) \cdot K_{fCAV1} \cdot K_{fCAV2}}{CA_{height} \cdot (CAV1 \cdot K_{fCAV2} + CAV2 \cdot K_{fCAV1}) \cdot K_{fTV1} \cdot K_{fTV2}} = 33.07 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1 \cdot T_{width1} \cdot K_{fCAH1}}{CAH1 \cdot CA_{width1} \cdot K_{fTH1}} = 78.13 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2 \cdot T_{width2} \cdot K_{fCAH2}}{CAH2 \cdot CA_{width2} \cdot K_{fTH2}} = 78.13 \text{ psf}$$

Pressures from Deflection Calculation:

Vertical

$$P_{ca} = \frac{P_{test} \cdot (T_{height}^2) \cdot (TV1 \cdot K_{dTV2} + TV2 \cdot K_{dTV1}) \cdot K_{dCAV1} \cdot K_{dCAV2}}{(CA_{height}^2) \cdot (CAV1 \cdot K_{dCAV2} + CAV2 \cdot K_{dCAV1}) \cdot K_{dTV1} \cdot K_{dTV2}} = 27.32 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1 \cdot (T_{width1}^2) \cdot K_{dCAH1}}{CAH1 \cdot (CA_{width1}^2) \cdot K_{dTH1}} = 97.66 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2 \cdot (T_{width2}^2) \cdot K_{dCAH2}}{CAH2 \cdot (CA_{width2}^2) \cdot K_{dTH2}} = 97.66 \text{ psf}$$

Pressures from Concentrated Stress Calculations:

Vertical

$$P_{ca} = \frac{P_{test} \cdot (TV1 + TV2)}{(CAV1 + CAV2)} = 37.50 \text{ psf}$$

Horizontal 1

$$P_{ca} = \frac{P_{test} \cdot TH1}{CAH1} = 62.50 \text{ psf}$$

Horizontal 2

$$P_{ca} = \frac{P_{test} \cdot TH2}{CAH2} = 62.50 \text{ psf}$$

Pressure from E1300 Glass Calculations:

Pane with Area 1 Regions :	131.0 psf
Pane with Area 2 Regions (if applicable) :	psf

Comparative Analysis Pressure (Minimum of all Pressures Calculated Above): 27.3