

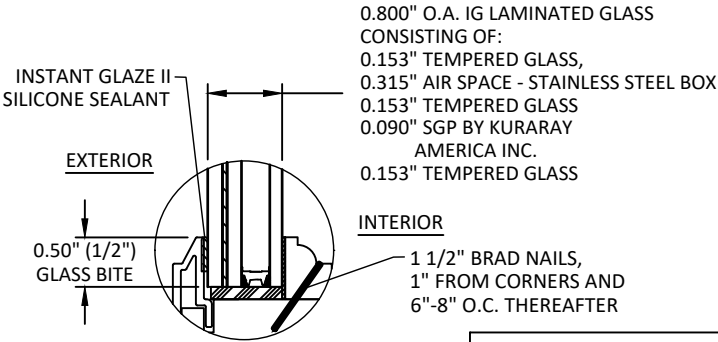
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ANDERSEN CORPORATION

E-SERIES FRENCH GLIDING & STATIONARY PATIO DOOR (WZ3) (IMPACT)

GENERAL NOTES:

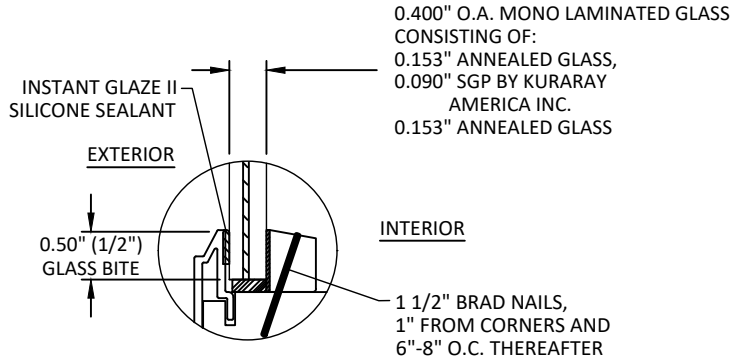
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA101/I.S.2/A440-08/11
 - ASTM E1886-05
 - ASTM E1996-12
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS **NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM IS **REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. DOOR FRAME MATERIAL: *ALUMINUM CLAD WOOD.*
8. MULLION MATERIAL: LAMINATED VENEER LUMBER.
9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.
10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
11. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



GLAZING DETAIL - G1
SHOWN WITH COLONIAL GLASS STOP

- GLAZING NOTES:
1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS.
 2. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 3. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 4. GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC

GLASS STOP PROFILES ARE
INTERCHANGEABLE



GLAZING DETAIL - G2
SHOWN WITH CONTEMPORARY GLASS STOP

DESIGN PRESSURE RATING				
O.A SIZE	CONFIGURATION	PANEL STYLE	DESIGN PRESSURE	MISSILE IMPACT RATING
71 3/4" X 96"	XO	SP1, SP2, SP4	+60.0 / -65.0 PSF	LARGE MISSILE
50" X 96"	O	SP1, SP2, SP4	+60.0 / -65.0 PSF	LARGE MISSILE

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	B	GENERAL NOTES & GLAZING DETAILS
2	B	ELEVATIONS
3	B	ANCHOR LAYOUTS
4	B	VERTICAL SECTIONS
5	B	HORIZONTAL SECTIONS
6	B	ANCHOR DETAILS
7	B	ZERO MULLION & LOAD TABLE - ONE WAY
8	B	1/2 X 5 3/16" MULLION & LOAD TABLE- ONE WAY
9	B	3/4" X 5 3/16" MULLION & LOAD TABLE - ONE WAY
10	B	1" X 5 3/16" MULLION & LOAD TABLE - ONE WAY
11	B	2" X 5 3/16" MULLION & LOAD TABLE- ONE WAY



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BAYPORT, MN 55003-1096

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TITLE: E-SERIES FRENCH GLIDING +
STATIONARY PATIO DOOR (WZ3)/(IMPACT)

GENERAL AND GLAZING DETAILS

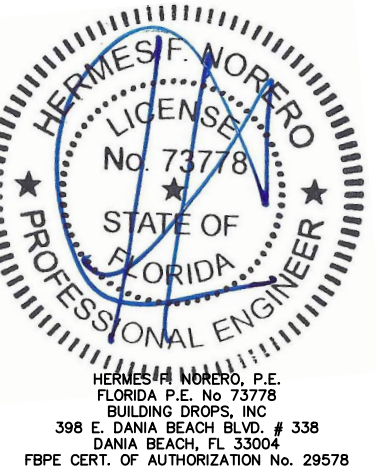
PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 999-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ADDED 1/2" MULL	HR	4.12.19
ADDED 3/4" MULL	LL	8.2.19

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FL21476

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DWG. BY: RV

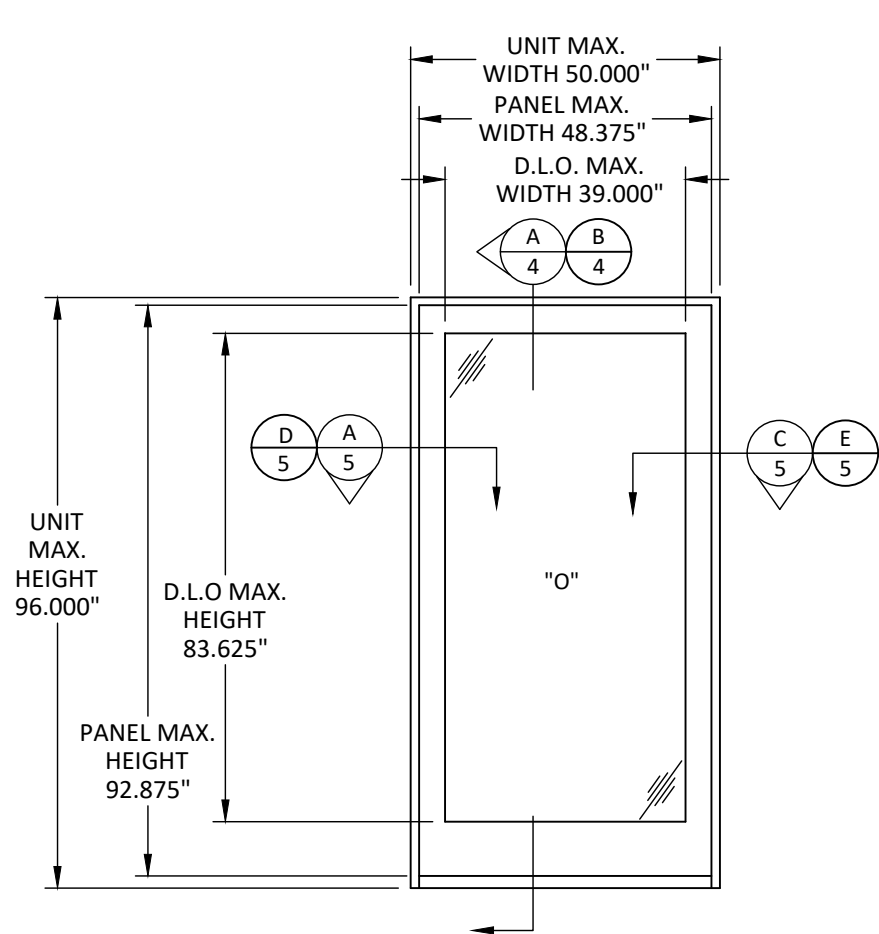
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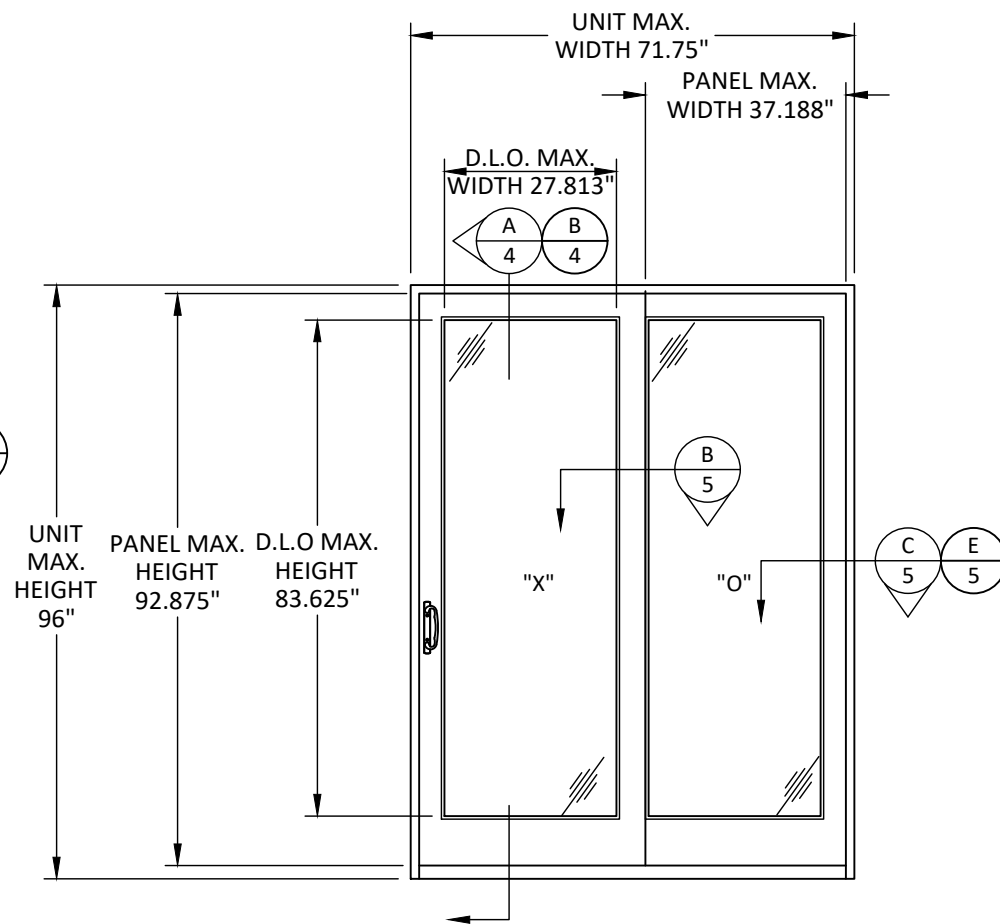
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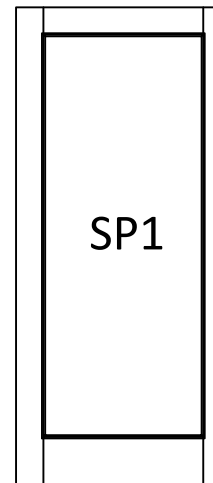
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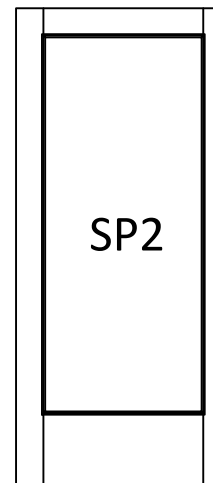
ELEVATION
SINGLE UNIT - STATIONARY



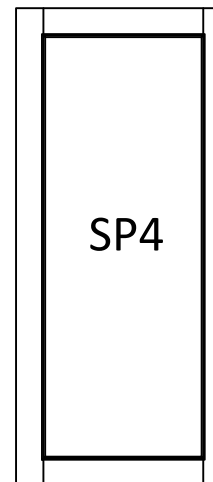
ELEVATION
SINGLE UNIT - GLIDING



4 11/16\" STILES & RAIL
8\" BOTTOM RAIL



4 11/16\" STILES & RAIL
12\" BOTTOM RAIL



4 11/16\" STILES & RAIL

QUALIFIED PANEL STYLES



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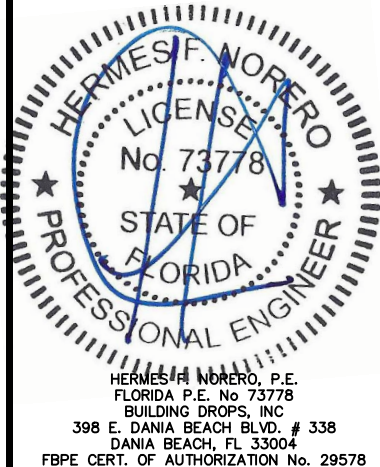
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ELEVATIONS

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DANIA BEACH, FL 33004
PH: (954) 999-8478
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WEB: www.buildingdrops.com

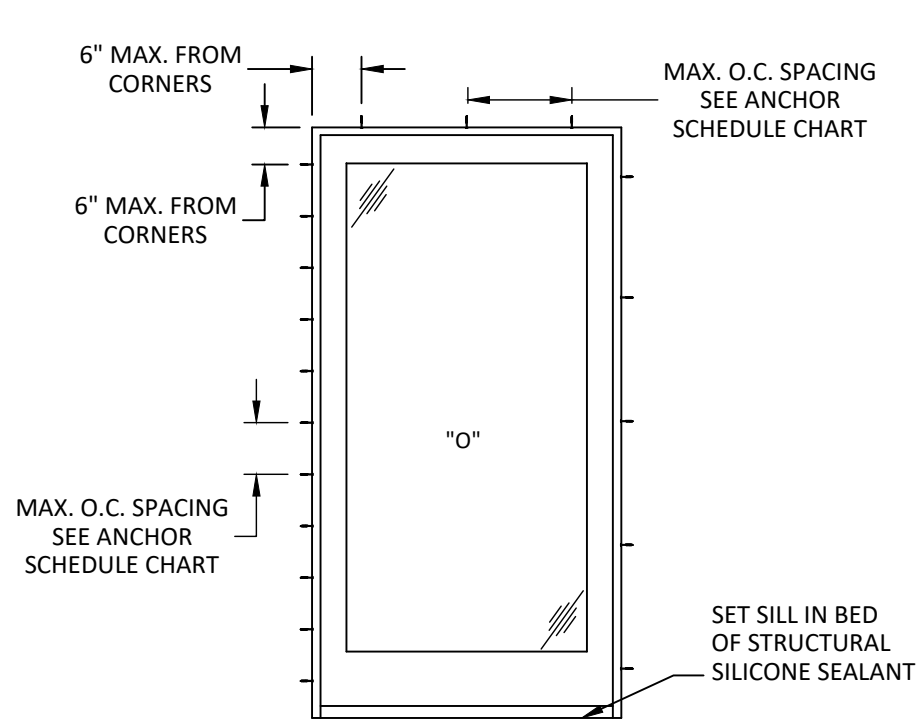
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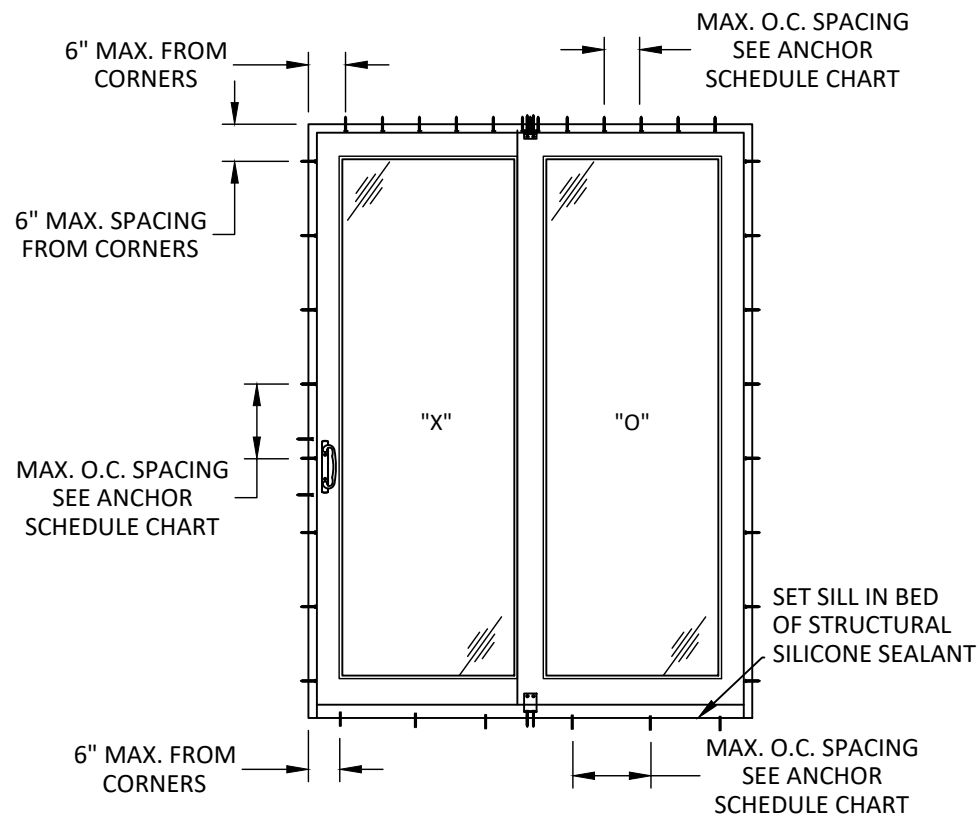


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DWG. BY:	CHK. BY:
RV	HFN
SCALE:	NTS
DWG. #:	AWD232
SHEET	2

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ANCHOR LAYOUT
STATIONARY UNIT THROUGH FRAME
INSTALLATION



ANCHOR LAYOUT
GLIDING UNIT
THROUGH FRAME INSTALLATION

ANCHOR SCHEDULE CHART												
UNIT	CONFIG.	DESIGN PRESSURE		FIN		STRAP		THROUGH FRAME				
				HEAD	JAMB	HEAD	JAMB	HEAD	JAMB	SILL #14 WS	SILL #12 WS 1/4" ITW	SILL #12 TEK SCREW
71 3/4" X 96"	XO	+/- 60 PSF	+/- 65 PSF	6.0	12.0	12.0	12.0	6.5	12.0	8.5	7.5	10"
50" X 96"	O	+/- 60 PSF	+/- 65 PSF	12.0	10.0	19.0	24.0	19.0	9.0	-	-	-
WS-WOOD SCREW												



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PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FRENCH GLIDING + STATIONARY PATIO DOOR (WZ3)/(IMPACT) ANCHOR LAYOUTS

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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL21476**

DATE: **01.09.18**

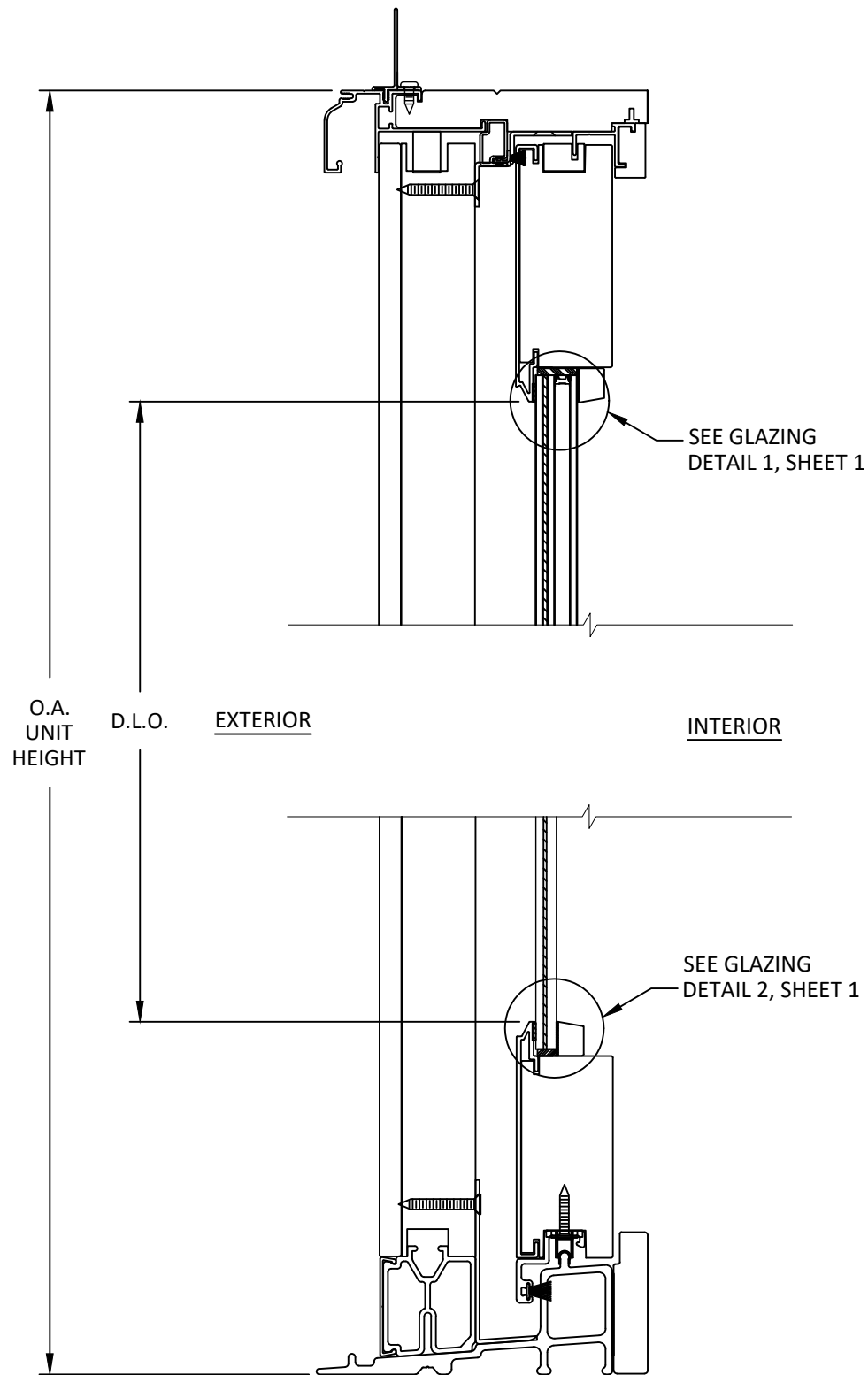
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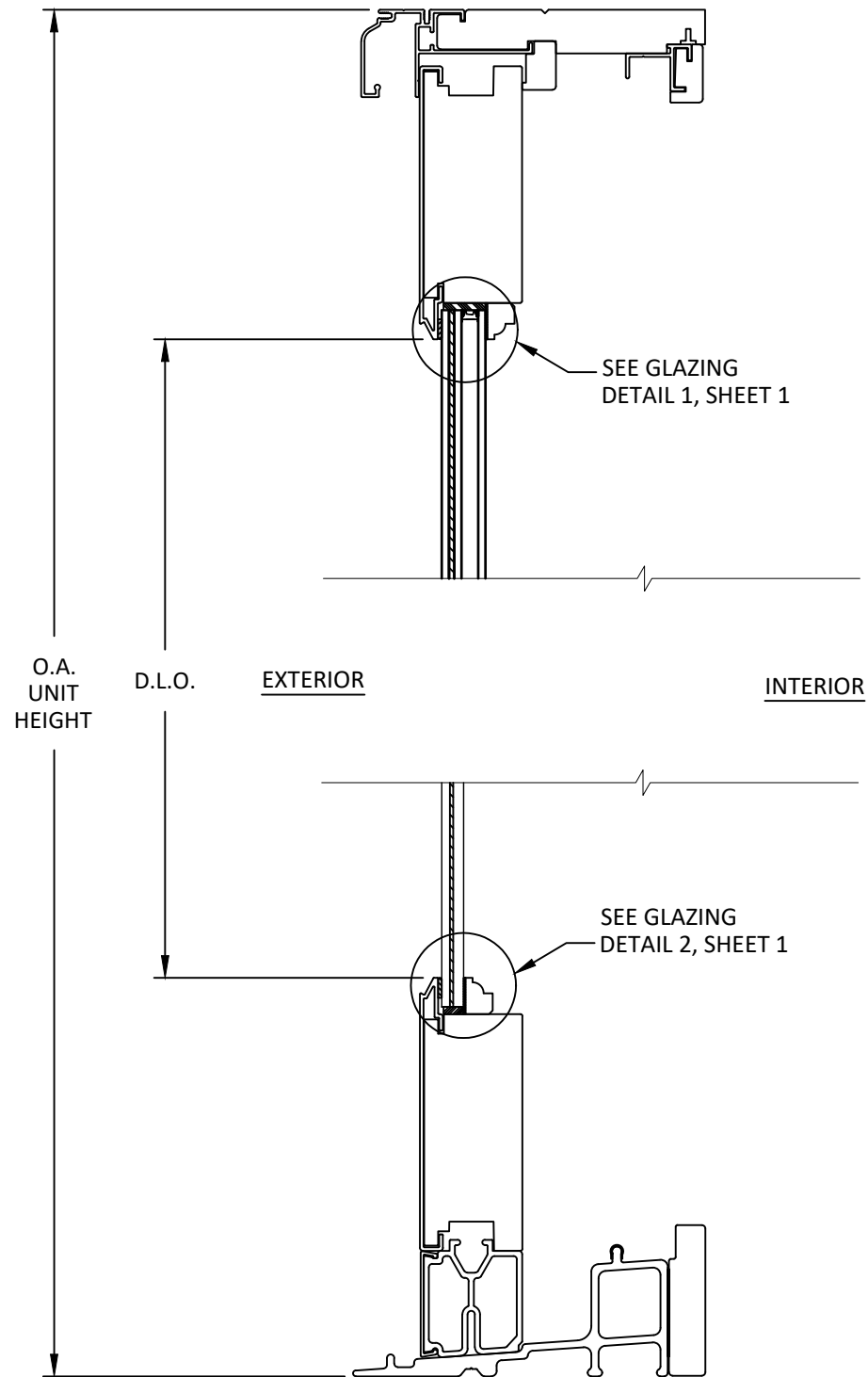
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A
4 **VERTICAL SECTION**
ALUMINUM FLANGE



B
4 **VERTICAL SECTION**
THROUGH FRAME



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VERTICAL SECTIONS

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PH: (954) 399-8478
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WEB: www.buildingdrops.com

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
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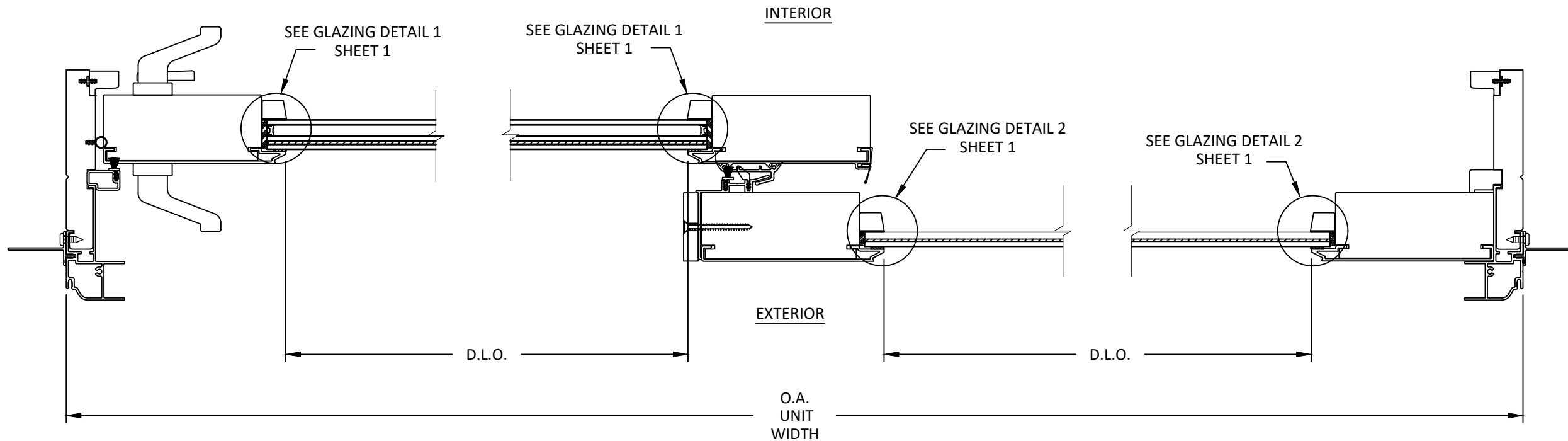
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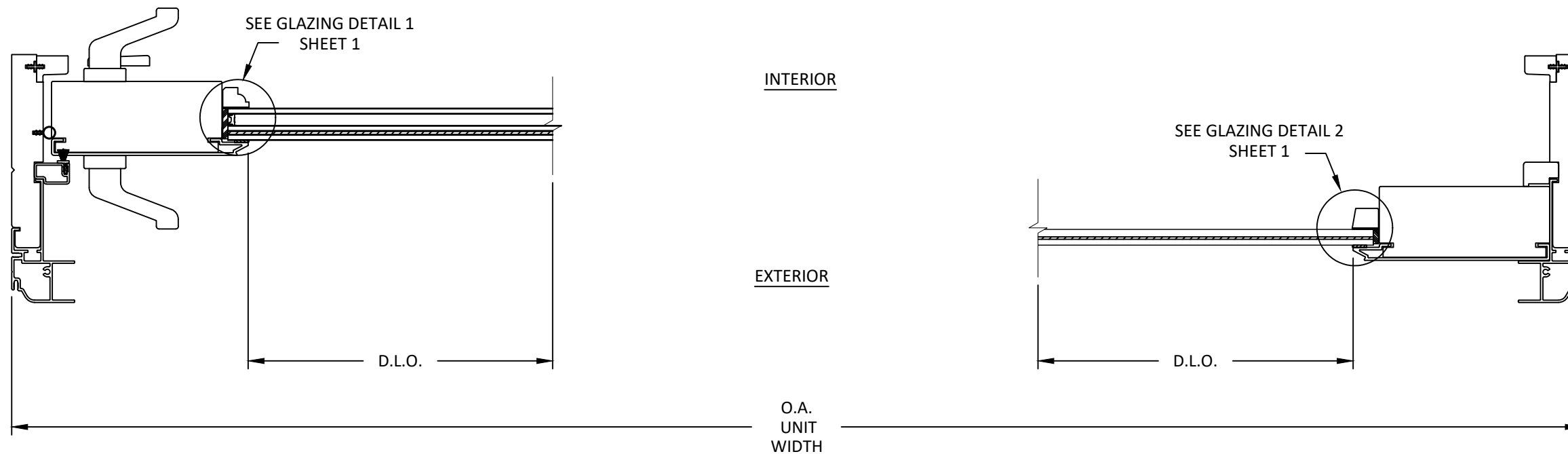
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A
5 HORIZONTAL SECTION
ALUMINUM FLANGE

B
5 HORIZONTAL SECTION
INTERLOCK

C
5 HORIZONTAL SECTION
ALUMINUM FLANGE



D
5 HORIZONTAL SECTION
THROUGH FRAME

E
5 HORIZONTAL SECTION
THROUGH FRAME



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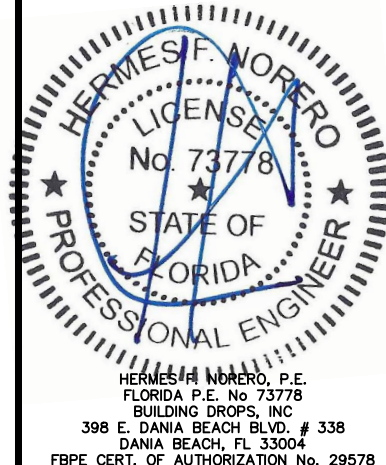
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HORIZONTAL SECTIONS

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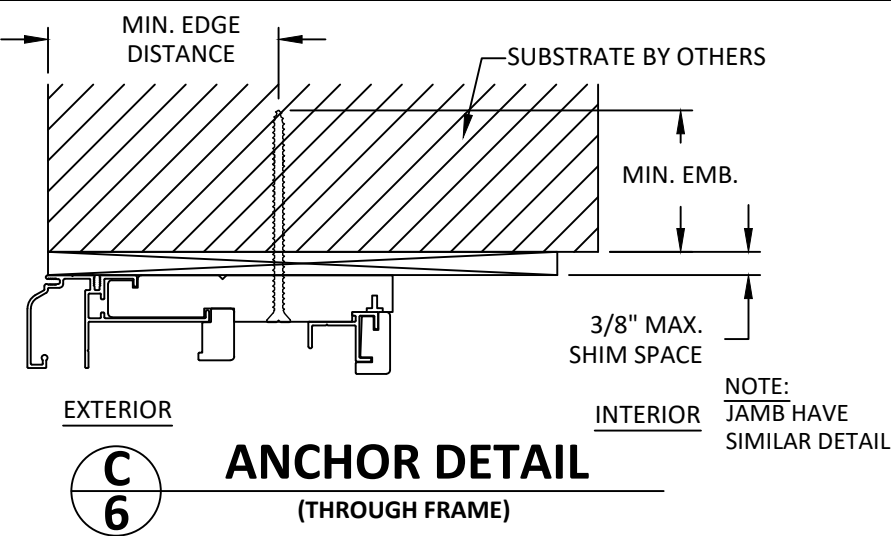
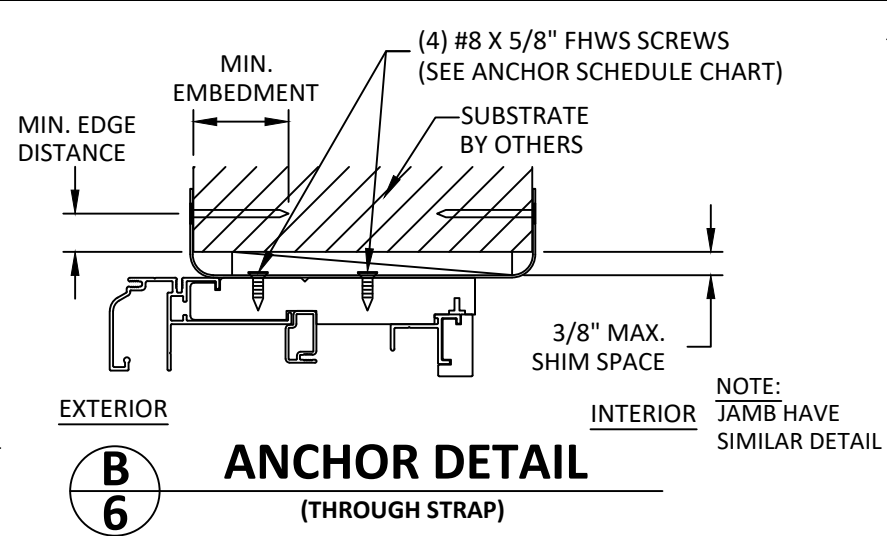
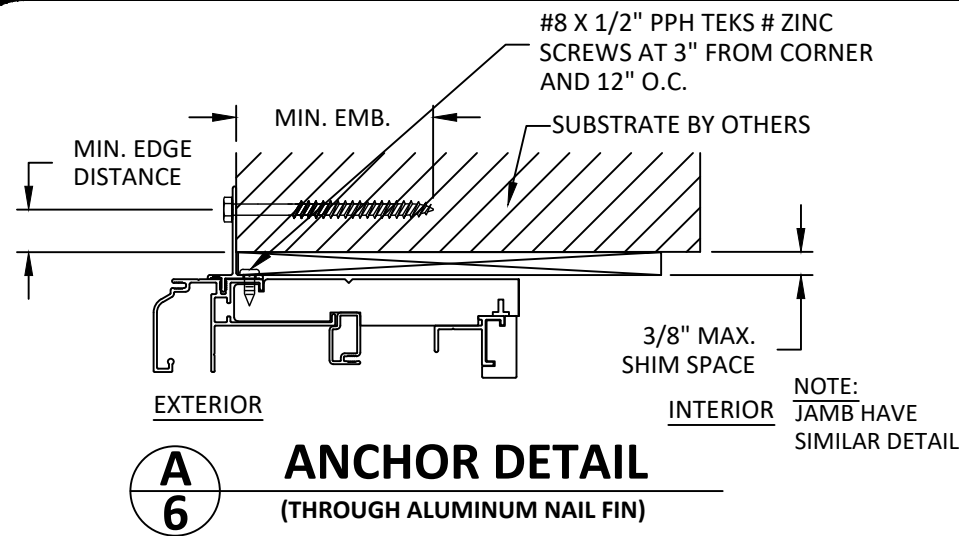
DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

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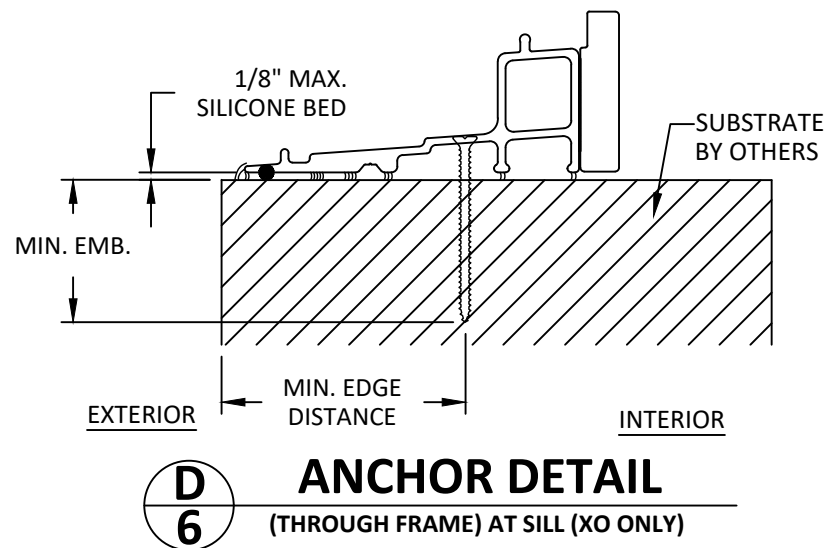
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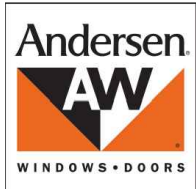


INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE SPECIFIED IN ANCHOR SCHEDULE.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, 1X WOOD BUCK MAY BE USED (OPTIONAL AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- SILL SHALL BE SET IN A BED OF STRUCTURAL SILICONE.



ANCHOR SCHEDULE					
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	NO OF ANCHORS PER LOCATION
THROUGH FRAME (HEAD AND JAMB)	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.5"	0.75"	1
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
THROUGH FRAME (SILL)	WOOD: MIN. SG = 0.55	#12 WOOD SCREW	1.5"	0.75"	1
	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.5"	0.75"	1
THROUGH FRAME (HEAD, SILL AND JAMB)	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#12 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	CONCRETE: f'c=2000PSI	1/4" ITW TAPCON	1.75"	2.5"	1
THROUGH NAIL FIN	MASONRY: CMU per ASTM C90	1/4" ITW TAPCON	1.75"	2.5"	1
	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.5"	0.75"	1
THROUGH STRAP	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	1
	WOOD: MIN. SG = 0.55	#6 WOOD SCREW	1.5"	0.75"	4
THROUGH STRAP	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"	4
	WOOD: MIN. SG = 0.55	#6 WOOD SCREW	1.5"	0.75"	4



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ANCHOR DETAILS

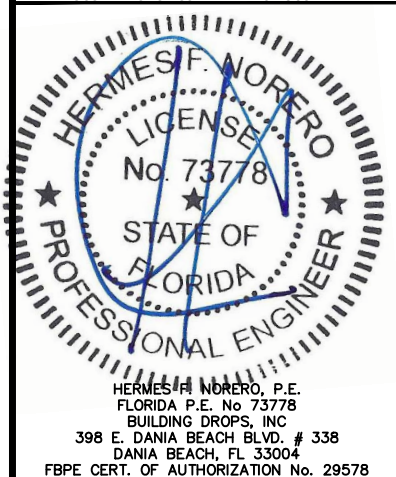
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DATE: **01.09.18**

DWG. BY:
RV

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **AWD232**

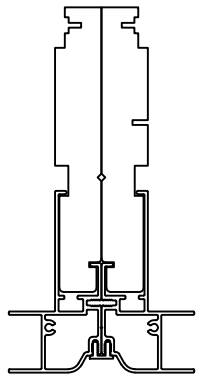
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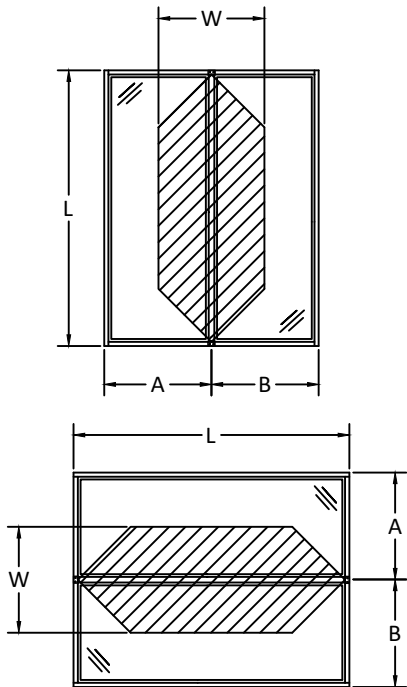
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
ZERO STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
66.0	75.00	75.00	69.96	63.67	62.89	62.89	62.89	62.89	62.89	62.89	62.89	62.89	62.89	62.89	62.89
72.0	75.00	70.44	56.84	50.42	48.44	48.44	48.44	48.44	48.44	48.44	48.44	48.44	48.44	48.44	48.44
78.0	75.00	59.23	47.21	41.12	38.44	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10
84.0	73.19	50.54	39.92	34.29	31.42	30.51	30.51	30.51	30.51	30.51	30.51	30.51	30.51	30.51	30.51
90.0	63.53	43.66	34.24	29.10	26.27	24.97	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80	24.80
96.0	55.68	38.12	29.72	25.05	22.35	20.91	20.44	20.44	20.44	20.44	20.44	20.44	20.44	20.44	20.44
102.0	46.90	32.18	25.12	21.17	18.86	17.55	16.95	16.87	16.87	16.87	16.87	16.87	16.87	16.87	16.87
108.0	39.41	26.96	20.95	17.56	15.51	14.29	13.64	13.42	13.42	13.42	13.42	13.42	13.42	13.42	13.42
114.0	33.44	22.82	17.67	14.73	12.93	11.81	11.16	10.86	10.81	10.81	10.81	10.81	10.81	10.81	10.81
120.0	28.62	19.48	15.04	12.49	10.90	9.89	9.26	8.92	8.80	8.80	8.80	8.80	8.80	8.80	8.80
126.0	24.68	16.77	12.91	10.69	9.28	8.37	7.79	7.44	7.27	7.24	7.24	7.24	7.24	7.24	7.24
132.0	21.44	14.54	11.17	9.22	7.98	7.16	6.62	6.27	6.08	6.01	6.01	6.01	6.01	6.01	6.01
138.0	18.74	12.69	9.73	8.01	6.91	6.17	5.67	5.35	5.15	5.05	5.03	5.03	5.03	5.03	5.03
144.0	16.47	11.15	8.53	7.00	6.02	5.36	4.91	4.60	4.40	4.29	4.25	4.25	4.25	4.25	4.25
150.0	14.56	9.84	7.52	6.16	5.29	4.69	4.28	3.99	3.79	3.67	3.62	3.61	3.61	3.61	3.61
156.0	12.93	8.73	6.66	5.45	4.67	4.13	3.75	3.48	3.30	3.18	3.11	3.08	3.08	3.08	3.08
162.0	11.54	7.78	5.93	4.85	4.14	3.65	3.31	3.06	2.89	2.77	2.69	2.66	2.65	2.65	2.65
168.0	10.34	6.97	5.31	4.33	3.69	3.25	2.94	2.71	2.55	2.43	2.35	2.31	2.29	2.29	2.29
174.0	9.30	6.27	4.77	3.88	3.30	2.91	2.62	2.41	2.26	2.15	2.07	2.02	2.00	1.99	1.99
180.0	8.40	5.65	4.30	3.49	2.97	2.61	2.35	2.15	2.01	1.90	1.83	1.78	1.75	1.74	1.74
186.0	7.61	5.12	3.89	3.16	2.68	2.35	2.11	1.93	1.80	1.70	1.63	1.58	1.54	1.53	1.53
192.0	6.91	4.65	3.53	2.86	2.43	2.13	1.91	1.74	1.62	1.52	1.46	1.40	1.37	1.35	1.34

- NOTE:**
- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEET 6.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN PRODUCTS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



ZERO MULLION



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

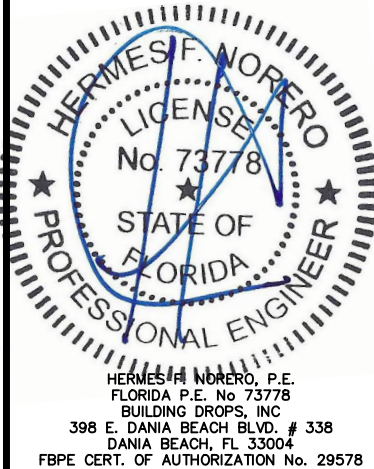
TITLE: E-SERIES FRENCH GLIDING +
STATIONARY PATIO DOOR (WZ3)/(IMPACT)
ZERO MULLION LOADS TABLE
ONE WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 999-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ADDED 1/2" MULL	HR	4.12.19
ADDED 3/4" MULL	LL	8.2.19

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

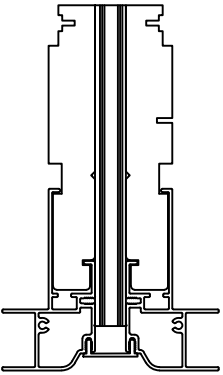


FL #:	FL21476
DATE:	01.09.18
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD232
SHEET	7

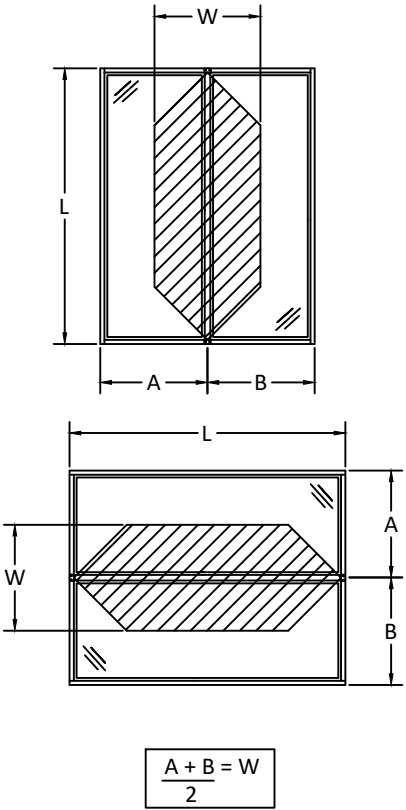
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
48.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
54.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
60.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
66.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
72.0	60.00	60.00	60.00	58.18	55.90	55.90	55.90	55.90	55.90	55.90	55.90	55.90	55.90	55.90	55.90
78.0	60.00	60.00	54.48	47.45	44.35	43.96	43.96	43.96	43.96	43.96	43.96	43.96	43.96	43.96	43.96
84.0	60.00	58.32	46.06	39.57	36.26	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20
90.0	60.00	50.38	39.50	33.58	30.31	28.81	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62
96.0	60.00	43.98	34.29	28.90	25.79	24.12	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58	23.58
102.0	56.77	38.75	30.06	25.17	22.25	20.56	19.76	19.66	19.66	19.66	19.66	19.66	19.66	19.66	19.66
108.0	50.06	34.25	26.59	22.14	19.43	17.78	16.86	16.56	16.56	16.56	16.56	16.56	16.56	16.56	16.56
114.0	42.47	28.98	22.44	18.71	16.42	15.00	14.17	13.79	13.73	13.73	13.73	13.73	13.73	13.73	13.73
120.0	36.35	24.75	19.11	15.86	13.85	12.56	11.77	11.33	11.18	11.18	11.18	11.18	11.18	11.18	11.18
126.0	31.35	21.30	16.40	13.57	11.79	10.63	9.89	9.45	9.23	9.20	9.20	9.20	9.20	9.20	9.20
132.0	27.23	18.47	14.19	11.71	10.13	9.09	8.40	7.97	7.72	7.64	7.64	7.64	7.64	7.64	7.64
138.0	23.80	16.12	12.36	10.17	8.77	7.84	7.21	6.79	6.54	6.41	6.39	6.39	6.39	6.39	6.39
144.0	20.93	14.16	10.84	8.90	7.65	6.81	6.23	5.84	5.59	5.44	5.39	5.39	5.39	5.39	5.39
150.0	18.50	12.50	9.55	7.83	6.71	5.96	5.43	5.07	4.82	4.67	4.59	4.58	4.58	4.58	4.58
156.0	16.43	11.09	8.46	6.92	5.93	5.24	4.77	4.43	4.19	4.04	3.95	3.92	3.92	3.92	3.92
162.0	14.66	9.89	7.54	6.15	5.26	4.64	4.21	3.89	3.67	3.52	3.42	3.38	3.37	3.37	3.37
168.0	13.14	8.85	6.74	5.50	4.69	4.13	3.73	3.44	3.23	3.09	2.99	2.93	2.91	2.91	2.91
174.0	11.82	7.96	6.05	4.93	4.20	3.69	3.33	3.06	2.87	2.73	2.63	2.57	2.54	2.53	2.53
180.0	10.67	7.18	5.46	4.44	3.77	3.31	2.98	2.74	2.55	2.42	2.32	2.26	2.22	2.21	2.21
186.0	9.66	6.50	4.94	4.01	3.41	2.99	2.68	2.45	2.29	2.16	2.07	2.00	1.96	1.94	1.94
192.0	8.78	5.90	4.48	3.64	3.09	2.70	2.42	2.21	2.06	1.94	1.85	1.78	1.74	1.72	1.71

- NOTE:
- 1) MULLION CHART APPLIES TO 1/2" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEET 6.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN PRODUCTS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1/2 X 5 3/16" MULLION



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

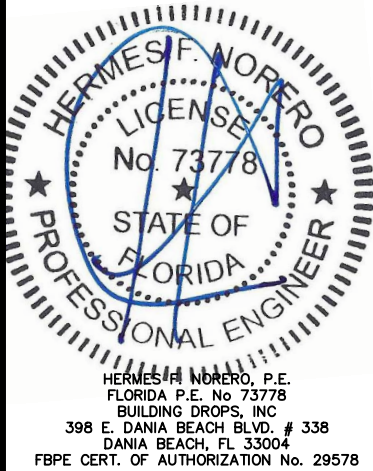
TITLE: E-SERIES FRENCH GLIDING +
STATIONARY PATIO DOOR (WZ3)/(IMPACT)
1/2 X 5 3/16" MULLION LOADS TABLE
ONE WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 999-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ADDED 1/2" MULL	HR	4.12.19
ADDED 3/4" MULL	LL	8.2.19

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

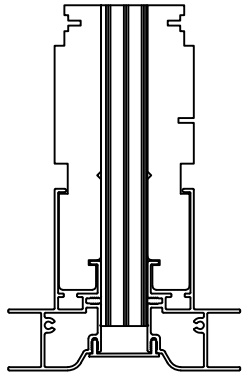


FL #:	FL21476
DATE:	01.09.18
DWG. BY:	CHK. BY:
RV	HFN
SCALE:	NTS
DWG. #:	AWD232
SHEET	8

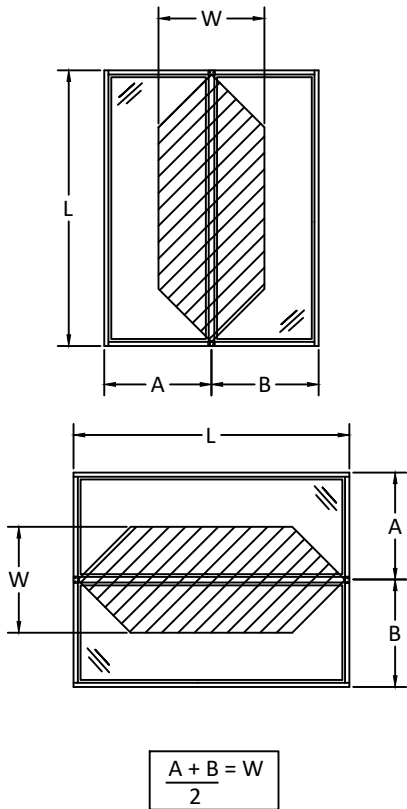
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
48.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
54.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
60.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
66.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
72.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
78.0	60.00	60.00	60.00	58.02	54.24	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76	53.76
84.0	60.00	60.00	56.32	48.38	44.34	43.05	43.05	43.05	43.05	43.05	43.05	43.05	43.05	43.05	43.05
90.0	60.00	60.00	48.31	41.06	37.06	35.23	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
96.0	60.00	53.79	41.93	35.34	31.53	29.50	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.84
102.0	60.00	47.38	36.76	30.78	27.21	25.14	24.17	24.04	24.04	24.04	24.04	24.04	24.04	24.04	24.04
108.0	60.00	41.88	32.51	27.08	23.76	21.74	20.62	20.25	20.25	20.25	20.25	20.25	20.25	20.25	20.25
114.0	51.94	35.44	27.45	22.88	20.08	18.35	17.33	16.86	16.79	16.79	16.79	16.79	16.79	16.79	16.79
120.0	44.45	30.26	23.37	19.40	16.93	15.36	14.39	13.86	13.68	13.68	13.68	13.68	13.68	13.68	13.68
126.0	38.34	26.05	20.06	16.60	14.42	13.01	12.09	11.55	11.29	11.25	11.25	11.25	11.25	11.25	11.25
132.0	33.30	22.59	17.35	14.32	12.39	11.12	10.28	9.74	9.45	9.34	9.34	9.34	9.34	9.34	9.34
138.0	29.11	19.72	15.12	12.44	10.73	9.59	8.81	8.30	7.99	7.84	7.82	7.82	7.82	7.82	7.82
144.0	25.59	17.31	13.25	10.88	9.36	8.33	7.62	7.14	6.83	6.66	6.60	6.60	6.60	6.60	6.60
150.0	22.62	15.29	11.68	9.57	8.21	7.29	6.64	6.20	5.89	5.71	5.62	5.60	5.60	5.60	5.60
156.0	20.09	13.56	10.35	8.47	7.25	6.41	5.83	5.41	5.12	4.94	4.83	4.79	4.79	4.79	4.79
162.0	17.93	12.09	9.22	7.53	6.43	5.68	5.14	4.76	4.49	4.30	4.18	4.13	4.12	4.12	4.12
168.0	16.06	10.83	8.24	6.72	5.73	5.05	4.56	4.21	3.95	3.77	3.65	3.59	3.56	3.56	3.56
174.0	14.45	9.73	7.40	6.03	5.13	4.51	4.07	3.74	3.50	3.33	3.21	3.14	3.10	3.09	3.09
180.0	13.05	8.78	6.67	5.43	4.62	4.05	3.64	3.34	3.12	2.96	2.84	2.76	2.72	2.70	2.70
186.0	11.82	7.95	6.04	4.90	4.17	3.65	3.28	3.00	2.80	2.64	2.53	2.45	2.40	2.37	2.37
192.0	10.74	7.22	5.48	4.45	3.77	3.30	2.96	2.71	2.51	2.37	2.26	2.18	2.13	2.10	2.09

- NOTE:**
- 1) MULLION CHART APPLIES TO 3/4" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEET 6.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN PRODUCTS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



3/4" X 5 3/16" MULLION



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

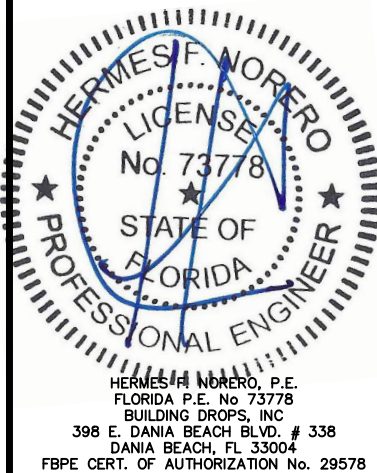
TITLE: E-SERIES FRENCH GLIDING +
STATIONARY PATIO DOOR (WZ3)/(IMPACT)
3/4" X 5 3/16" MULLION LOADS TABLE
ONE WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 999-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ADDED 1/2" MULL	HR	4.12.19
ADDED 3/4" MULL	LL	8.2.19

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FL #: FL21476

DATE: 01.09.18

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

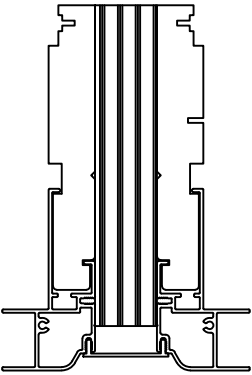
DWG. #: AWD232

SHEET

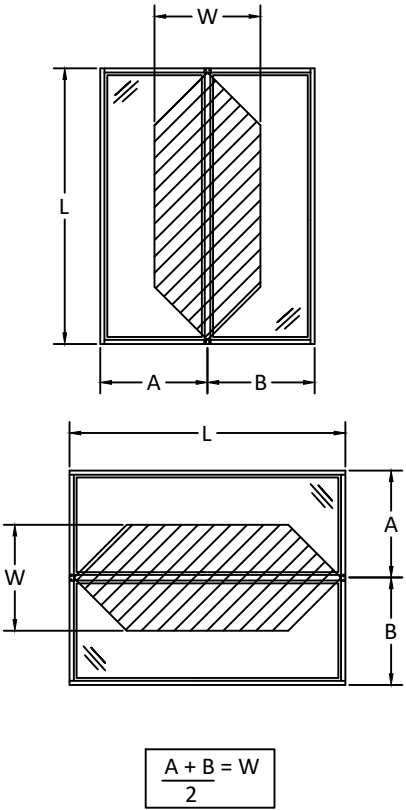
9

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
48.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
54.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
60.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
66.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
72.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
78.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
84.0	60.00	60.00	60.00	57.20	52.42	50.89	50.89	50.89	50.89	50.89	50.89	50.89	50.89	50.89	50.89
90.0	60.00	60.00	57.11	48.54	43.82	41.65	41.38	41.38	41.38	41.38	41.38	41.38	41.38	41.38	41.38
96.0	60.00	60.00	49.57	41.79	37.28	34.88	34.09	34.09	34.09	34.09	34.09	34.09	34.09	34.09	34.09
102.0	60.00	56.02	43.46	36.39	32.17	29.73	28.57	28.42	28.42	28.42	28.42	28.42	28.42	28.42	28.42
108.0	60.00	49.51	38.44	32.01	28.09	25.70	24.38	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94
114.0	60.00	41.90	32.45	27.05	23.74	21.69	20.49	19.94	19.85	19.85	19.85	19.85	19.85	19.85	19.85
120.0	52.55	35.78	27.62	22.94	20.02	18.16	17.01	16.39	16.17	16.17	16.17	16.17	16.17	16.17	16.17
126.0	45.32	30.80	23.72	19.62	17.05	15.38	14.30	13.66	13.35	13.30	13.30	13.30	13.30	13.30	13.30
132.0	39.37	26.71	20.52	16.93	14.65	13.14	12.15	11.52	11.17	11.04	11.04	11.04	11.04	11.04	11.04
138.0	34.41	23.31	17.87	14.71	12.68	11.33	10.42	9.82	9.45	9.27	9.25	9.25	9.25	9.25	9.25
144.0	30.25	20.47	15.67	12.86	11.06	9.85	9.01	8.45	8.08	7.87	7.80	7.80	7.80	7.80	7.80
150.0	26.74	18.07	13.81	11.31	9.71	8.61	7.85	7.32	6.97	6.75	6.64	6.62	6.62	6.62	6.62
156.0	23.75	16.04	12.24	10.01	8.57	7.58	6.89	6.40	6.06	5.84	5.71	5.66	5.66	5.66	5.66
162.0	21.20	14.30	10.90	8.90	7.60	6.71	6.08	5.63	5.30	5.08	4.95	4.88	4.87	4.87	4.87
168.0	18.99	12.80	9.75	7.95	6.78	5.97	5.39	4.98	4.67	4.46	4.32	4.24	4.21	4.21	4.21
174.0	17.08	11.51	8.75	7.13	6.07	5.34	4.81	4.43	4.14	3.94	3.80	3.71	3.67	3.66	3.66
180.0	15.42	10.38	7.89	6.42	5.46	4.79	4.31	3.95	3.69	3.50	3.36	3.27	3.21	3.19	3.19
186.0	13.97	9.40	7.14	5.80	4.92	4.32	3.88	3.55	3.30	3.12	2.99	2.90	2.84	2.81	2.80
192.0	12.70	8.54	6.48	5.26	4.46	3.90	3.50	3.20	2.97	2.80	2.67	2.58	2.52	2.48	2.47

- NOTE:
- 1) MULLION CHART APPLIES TO 1" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEET 6.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN PRODUCTS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1" X 5 3/16" MULLION



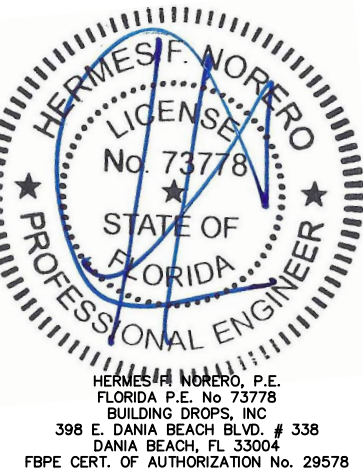
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FRENCH GLIDING +
STATIONARY PATIO DOOR (WZ3)/(IMPACT)
1" X 5 3/16" MULLION LOADS TABLE
ONE WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 999-8478
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REMARKS	BY	DATE
ADDED 1/2" MULL	HR	4.12.19
ADDED 3/4" MULL	LL	8.2.19

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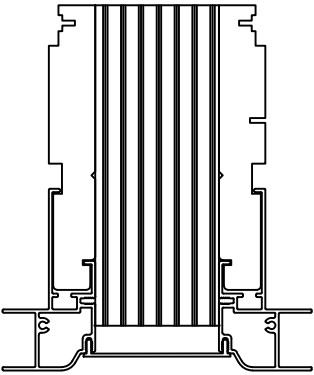


FL #:	FL21476
DATE:	01.09.18
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD232
SHEET	

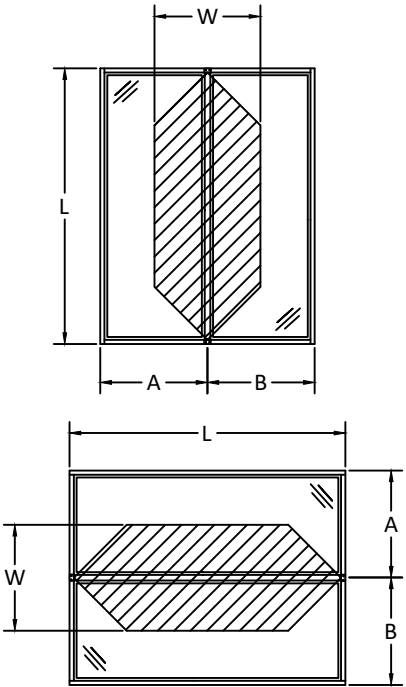
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
48.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
54.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
60.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
66.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
72.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
78.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
84.0	60.00	60.00	60.00	60.00	56.33	55.18	55.18	55.18	55.18	55.18	55.18	55.18	55.18	55.18	55.18
90.0	60.00	60.00	60.00	54.08	50.07	48.29	48.07	48.07	48.07	48.07	48.07	48.07	48.07	48.07	48.07
96.0	60.00	60.00	56.33	49.16	45.07	42.92	42.25	42.25	42.25	42.25	42.25	42.25	42.25	42.25	42.25
102.0	60.00	60.00	52.00	45.07	40.97	38.63	37.56	37.43	37.43	37.43	37.43	37.43	37.43	37.43	37.43
108.0	60.00	60.00	48.29	41.60	37.56	35.12	33.80	33.38	33.38	33.38	33.38	33.38	33.38	33.38	33.38
114.0	60.00	56.33	45.07	38.63	34.67	32.19	30.73	30.04	29.96	29.96	29.96	29.96	29.96	29.96	29.96
120.0	60.00	53.02	42.25	36.05	32.19	29.36	27.50	26.49	26.14	26.14	26.14	26.14	26.14	26.14	26.14
126.0	60.00	49.79	38.34	31.72	27.56	24.86	23.12	22.08	21.58	21.51	21.51	21.51	21.51	21.51	21.51
132.0	60.00	43.18	33.17	27.36	23.68	21.25	19.64	18.62	18.05	17.85	17.85	17.85	17.85	17.85	17.85
138.0	55.63	37.69	28.89	23.77	20.51	18.32	16.85	15.87	15.28	14.99	14.95	14.95	14.95	14.95	14.95
144.0	48.91	33.09	25.33	20.79	17.88	15.92	14.57	13.65	13.06	12.73	12.61	12.61	12.61	12.61	12.61
150.0	43.23	29.22	22.33	18.29	15.69	13.93	12.70	11.84	11.27	10.91	10.74	10.71	10.71	10.71	10.71
156.0	38.40	25.93	19.79	16.18	13.85	12.26	11.14	10.34	9.79	9.43	9.23	9.15	9.15	9.15	9.15
162.0	34.27	23.11	17.62	14.38	12.29	10.85	9.83	9.10	8.58	8.22	8.00	7.89	7.87	7.87	7.87
168.0	30.70	20.69	15.76	12.85	10.96	9.65	8.72	8.05	7.56	7.21	6.99	6.85	6.80	6.80	6.80
174.0	27.62	18.60	14.15	11.52	9.81	8.63	7.78	7.15	6.70	6.37	6.14	6.00	5.93	5.91	5.91
180.0	24.94	16.78	12.75	10.37	8.82	7.74	6.97	6.39	5.97	5.66	5.43	5.28	5.20	5.16	5.16
186.0	22.59	15.19	11.54	9.37	7.96	6.98	6.27	5.74	5.34	5.05	4.83	4.68	4.59	4.54	4.53
192.0	20.53	13.80	10.47	8.50	7.21	6.31	5.66	5.17	4.80	4.53	4.32	4.17	4.07	4.01	3.99

- NOTE:
- 1) MULLION CHART APPLIES TO 2" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
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2" X 5 3/16" MULLION



$$\frac{A + B}{2} = W$$



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

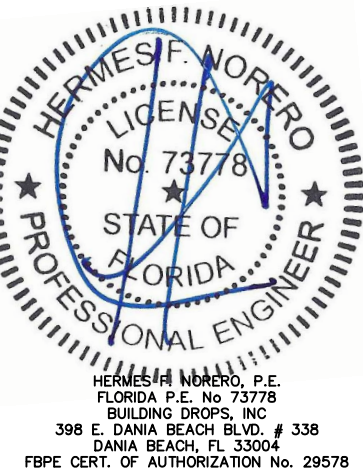
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REMARKS	BY	DATE
ADDED 1/2" MULL	HR	4.12.19
ADDED 3/4" MULL	LL	8.2.19

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FL #:	FL21476
DATE:	01.09.18
DWG. BY:	CHK. BY:
RV	HFN
SCALE:	NTS
DWG. #:	AWD232
SHEET	11