

ANDERSEN CORPORATION

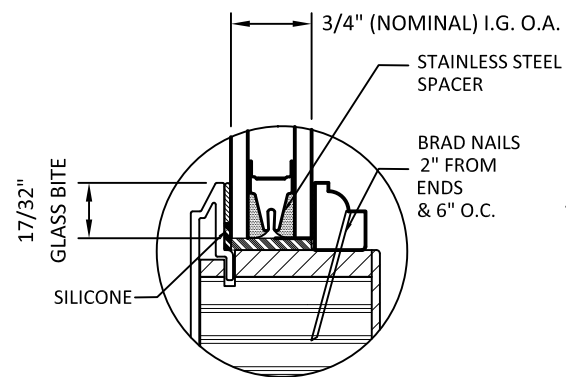
E-SERIES HINGED PATIO DOOR - INSWING (NON-HVHZ) (NON-IMPACT)



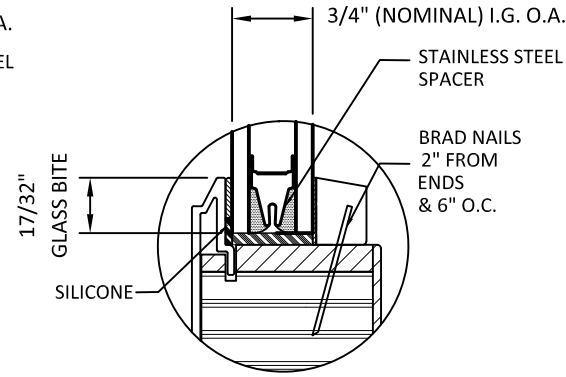
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/1.S.2/A440-17
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 REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: ALUMINUM CLAD & WOOD.
7. MULLION MATERIAL: LAMINATED VENEER LUMBER.
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 . SEE SHEET 1 FOR GLAZING DETAILS.
9. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
10. 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 DETAIL - G2
SHOWN WITH CONTEMPORARY GLASS STOP

GLAZING NOTES:

1. GLASS TYPE & THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLE ON SECTION 2.0.

GLASS STOP PROFILES
ARE INTERCHANGEABLE

SECTION	SHEET DESCRIPTION
1.0	GENERAL NOTES & GLAZING DETAIL
2.0	ELEVATIONS AND CONFIGURATION
3.0	VERTICAL SECTIONS
4.0	HORIZONTAL SECTIONS
5.0	PANELS & SIDELITES DETAILS
6.0	HARDWARE LOCATIONS
7.0	ANCHOR LAYOUT
8.0	ANCHOR DETAILS, SCHEDULE & NOTES
9.0	MULLION TABLES

TITLE:
E-SERIES HINGED PATIO DOOR - INSWING
(NON-HVHZ)(NON-IMPACT)

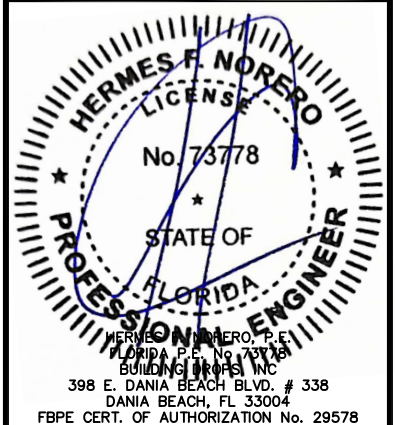
GENERAL NOTES & GLAZING DETAIL
PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD229
SECTION	1.0

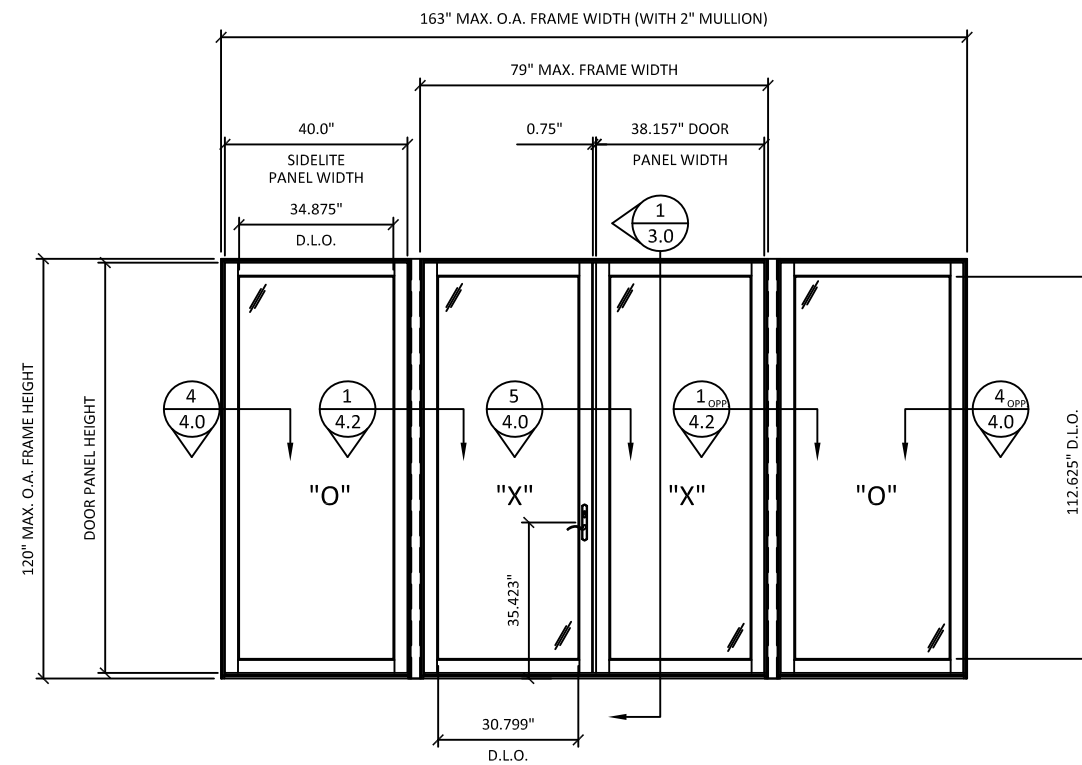


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TITLE:
E-SERIES HINGED PATIO DOOR - INSWING
(NON-HVHZ)(NON-IMPACT)

ELEVATIONS & CONFIGURATIONS

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ELEVATION
INSWING DOOR WITH 2" MULLION

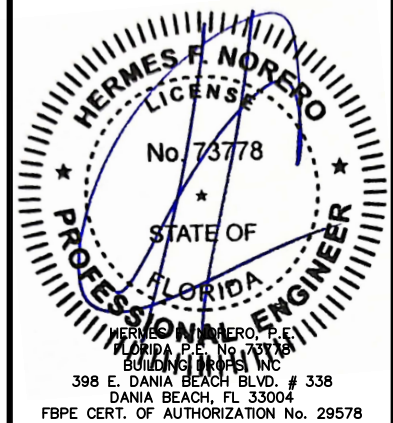
CONFIGURATION	WIDTH	HEIGHT	PANEL TYPE	PG RATING	DESIGN PRESSURE	PASSIVE LOCK
X	40.0	96.0	Radius	PG 45	+45 / -55	N/A
X	40.0	102.0	SP1, SP2, SP4, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 45	+45 / -65	N/A
X	40.0	120.0	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2	PG 45	+45 / -65	N/A
X	40.5	120.0	SP4, SP5	PG 45	+/- 45	N/A
XX	79.0	96.0	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2	PG 35	+/-35	Option 4
XX	79.0	96.0	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3, Radius	PG 40	+/-40	Option 1,2,3
XO	79.0	96.0	SP1, SP2, SP4, SP5, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 45	+/-45	N/A
XX	79.0	102.0	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2	PG 30	+/-30	Option 1,2,3
XX	79.0	102.0	SP4, SP5	PG 30	+35/-40	Option 1
XX	79.0	120.0	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2	PG 35	+/-35	Option 1,2,3
XX	79.0	120.0	SP4, SP5	PG 30	+/-40	Option 1
OO	79.0	96.0	SP1, SP2, SP4, SP5, SP1R1, SP1R2, SP1R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 40	+/-40	N/A
X	24.5	96.0	SL1, SL2, SL1R1, SL1R2, SL2R3, SL1M1, SL1M2, SL2M1	PG 40	+/-40	N/A
O	40.0	96.0	Radius	PG 45	+45/-55	N/A
O	40.0	120.0	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 45	+45 / -60	N/A
O	40.0	120.0	SP4, SP5	PG 45	+/-45	N/A
O	79.0	24.0	ST1, ST2, ST3, ST4, ST5	PG 60	+/-60	N/A

* LOW THRESHOLD SILLS HAVE DP 0 WATER RATING.

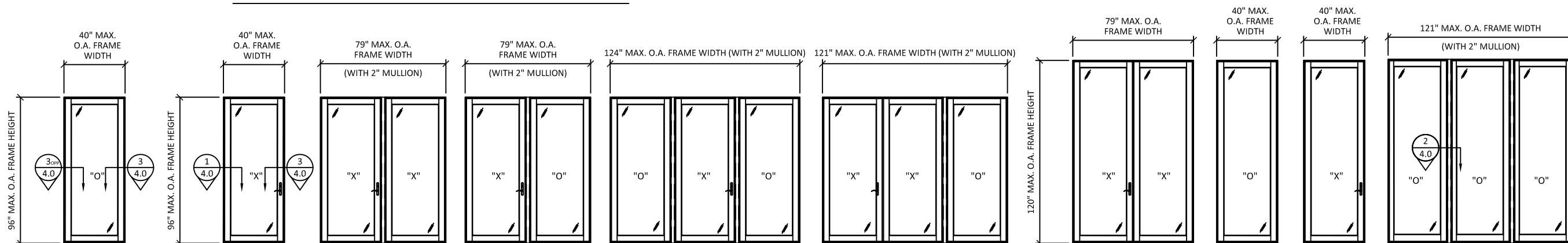
NOTE:
1. REFER TO SECTION 9 FOR DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES.

REMARKS	BY	DATE
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OTHER QUALIFIED CONFIGURATIONS



FL #:

FL25570

DATE: **10.02.17**

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

SCALE: **NTS**

DWG. #: **AWD229**

SECTION

2.0



100 FOURTH AVE NORTH
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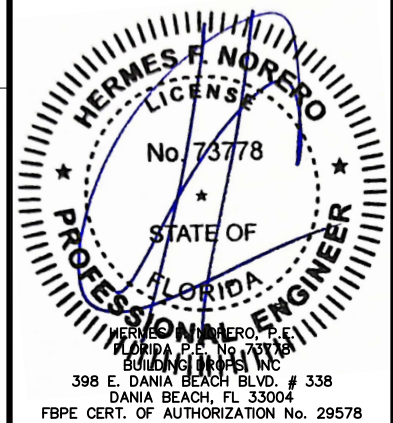
ELEVATIONS & CONFIGURATIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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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 #: **FL25570**

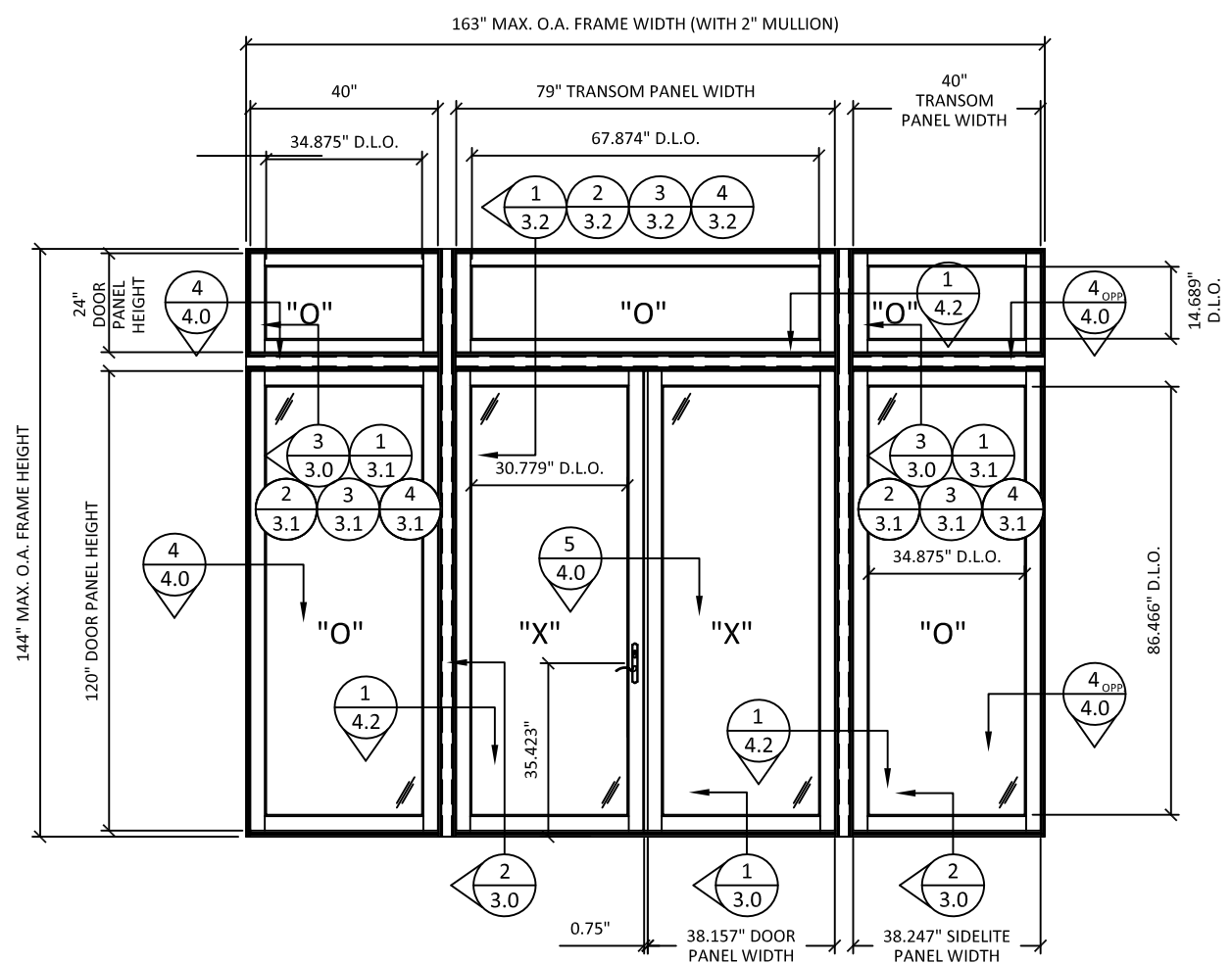
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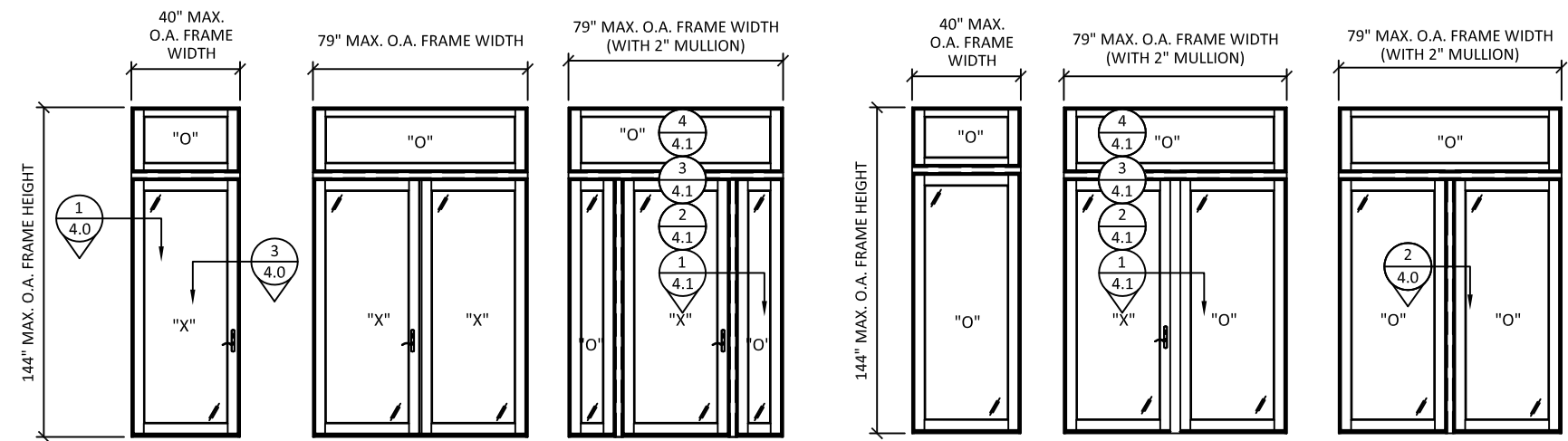
SECTION
2.1
[PAGE 3 of 26]



NOTE:
1. REFER TO SECTION 2.1, 5.0 & 9 FOR CONFIGURATIONS, PANEL TYPES & DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES.

ELEVATION
INSWING DOOR WITH TRANSOM & 2" MULLION

OTHER QUALIFIED CONFIGURATIONS



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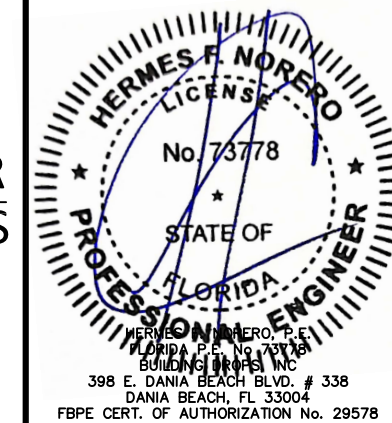


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TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (NON-HVHZ)/(NON-IMPACT)
VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
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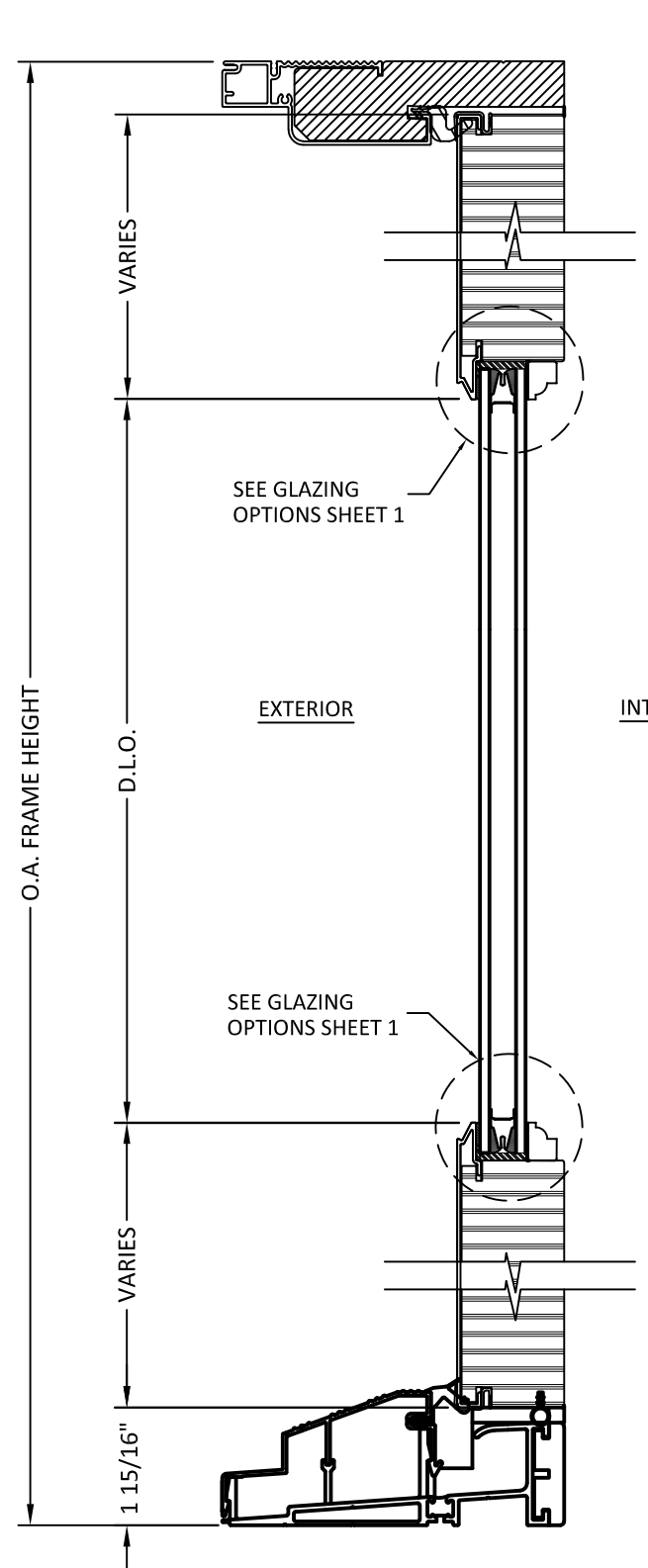
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DWG. #: AWD229

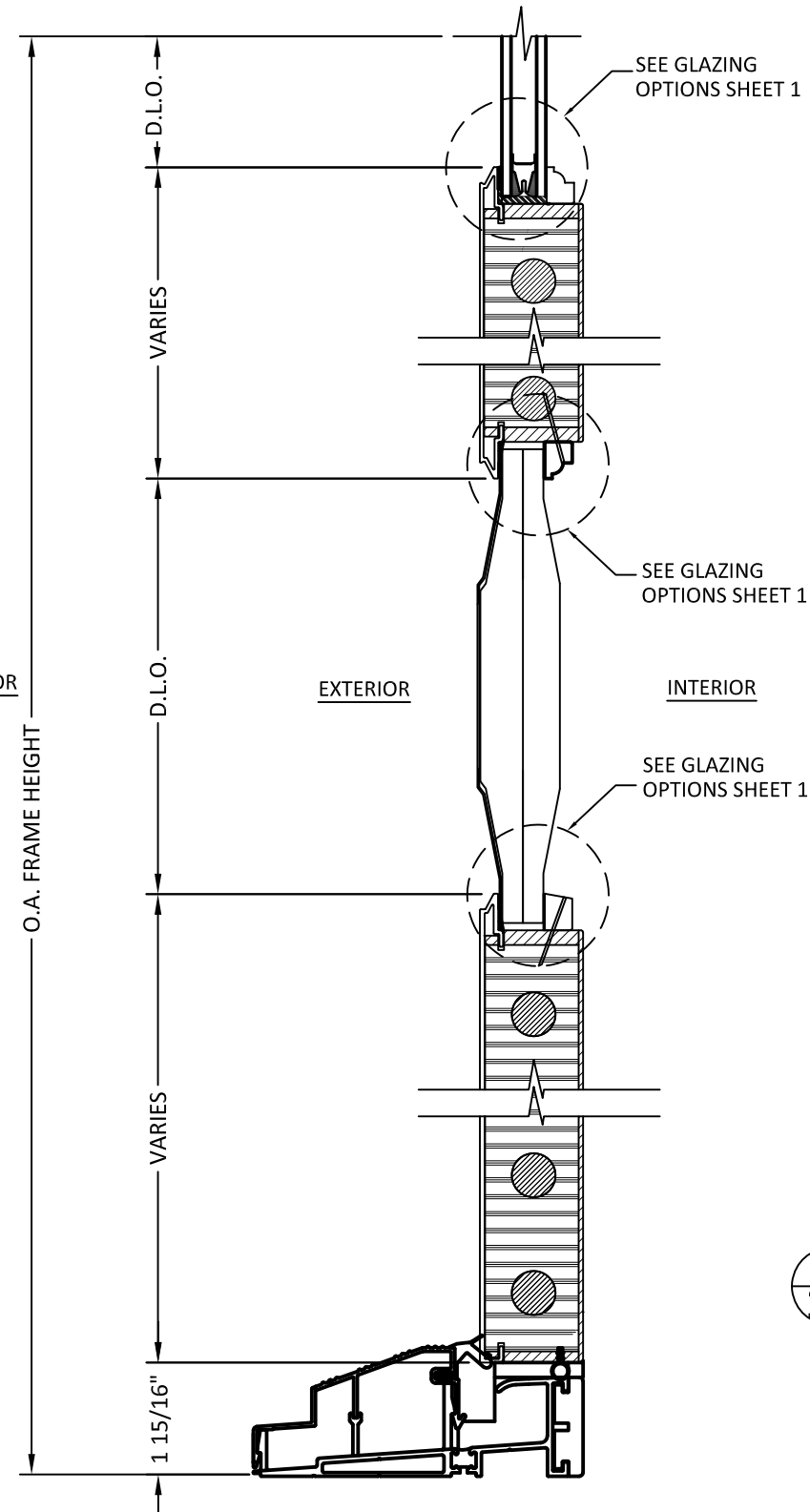
SECTION

3.0

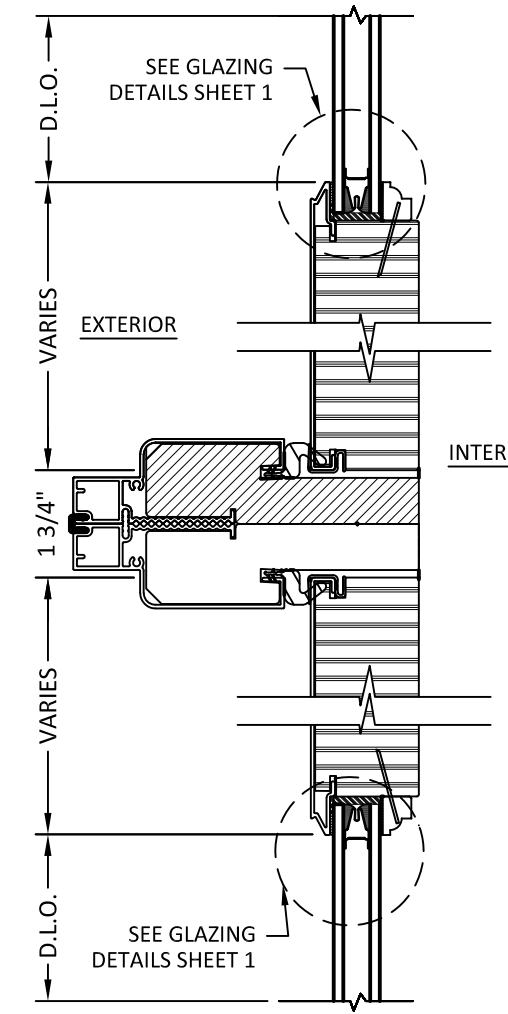
[PAGE 4 of 26]



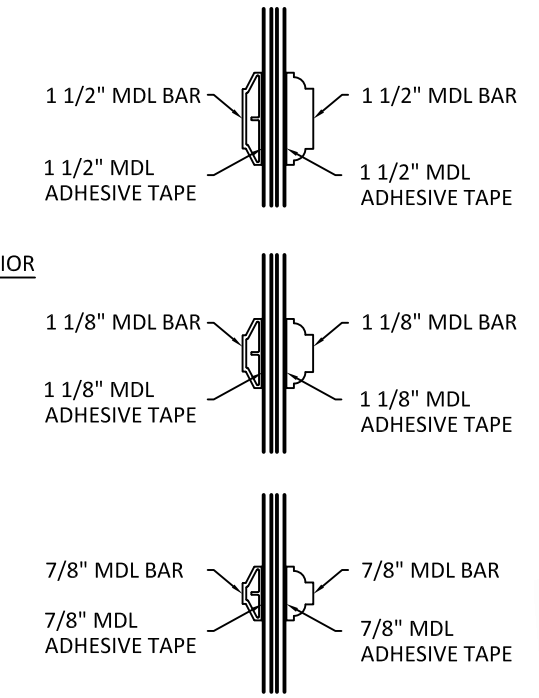
1
3.0
VERTICAL SECTION
FULL GLAZED PANEL



2
3.0
VERTICAL SECTION
PANEL WITH MID RAIL
WOOD PANEL INSERT



3
3.0
VERTICAL SECTION
INSULATED GLASS
ZERO MULLION



**OPTIONAL MUNTIN BAR
ATTACHMENT TO GLASS**

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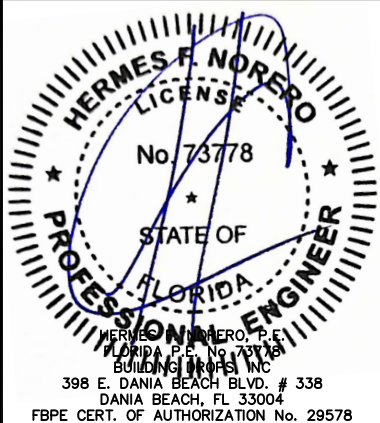
VERTICAL SECTIONS

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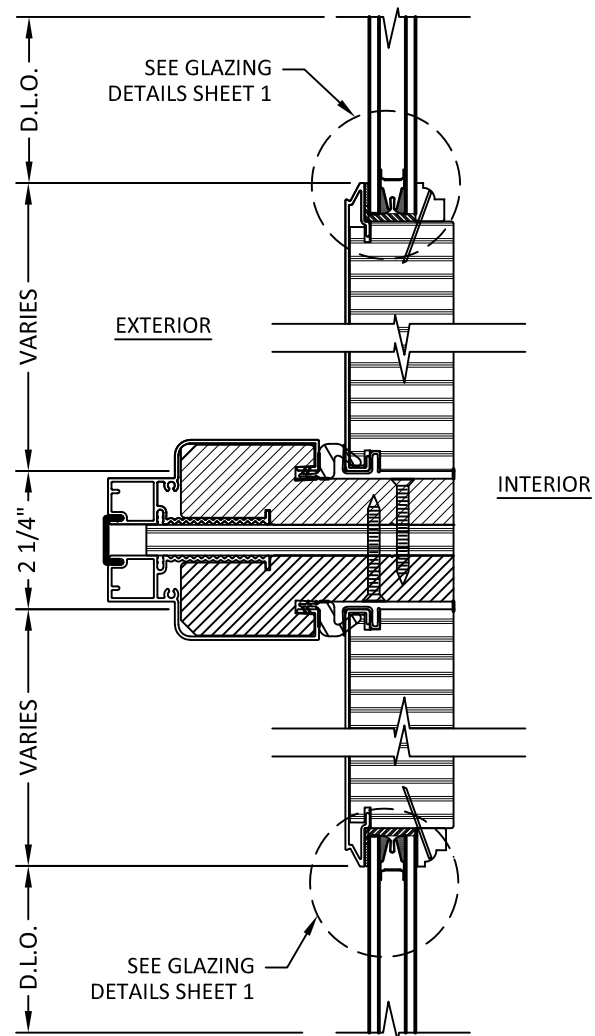
SCALE: NTS

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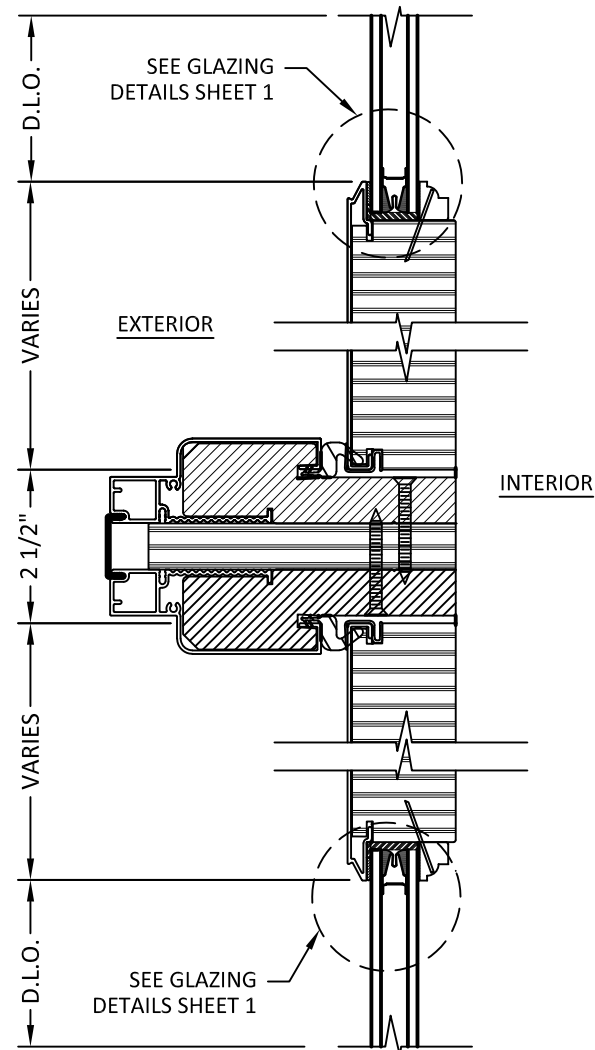
SECTION

3.1

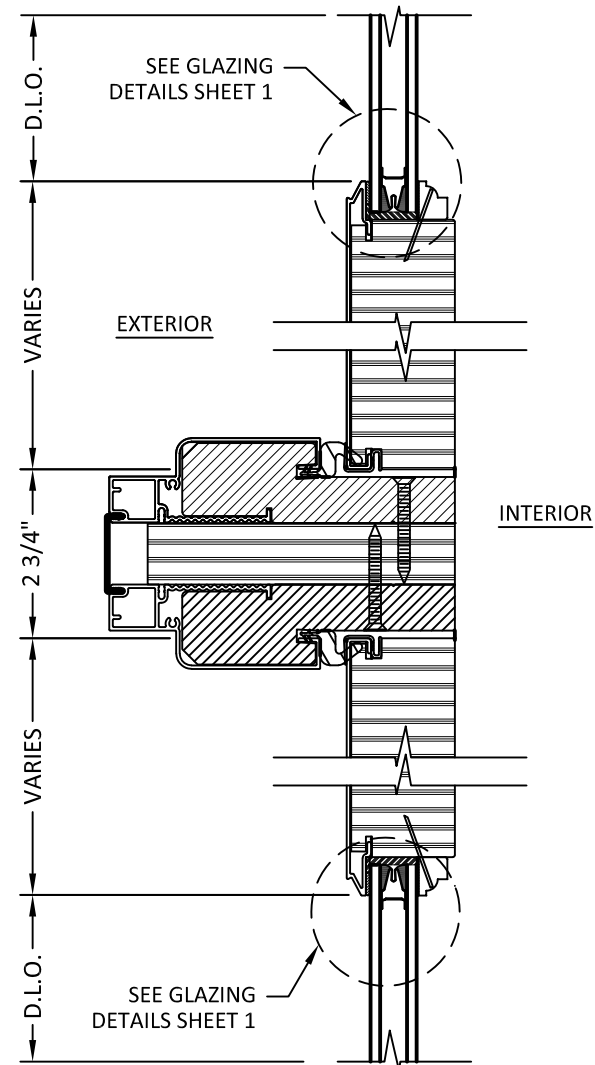
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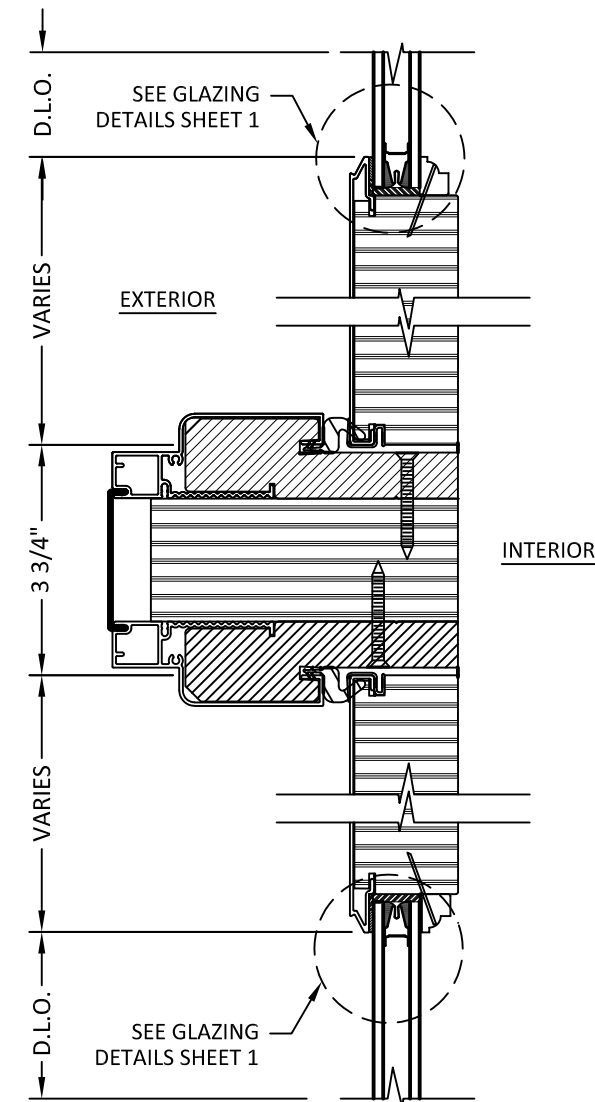
1
3.1 VERTICAL SECTION
INSULATED GLASS
1/2" X 5-3/16" MULLION



2
3.1 VERTICAL SECTION
INSULATED GLASS
3/4" X 5-3/16" MULLION



3
3.1 VERTICAL SECTION
INSULATED GLASS
1" X 5-3/16" MULLION



4
3.1 VERTICAL SECTION
INSULATED GLASS
2" X 5-3/16" MULLION



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VERTICAL SECTIONS

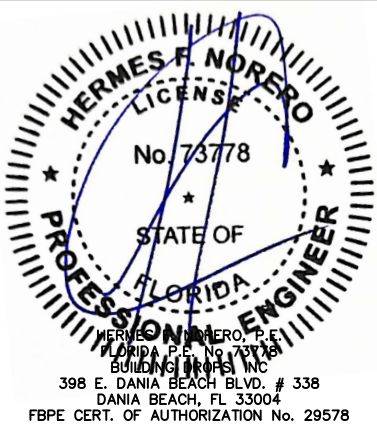
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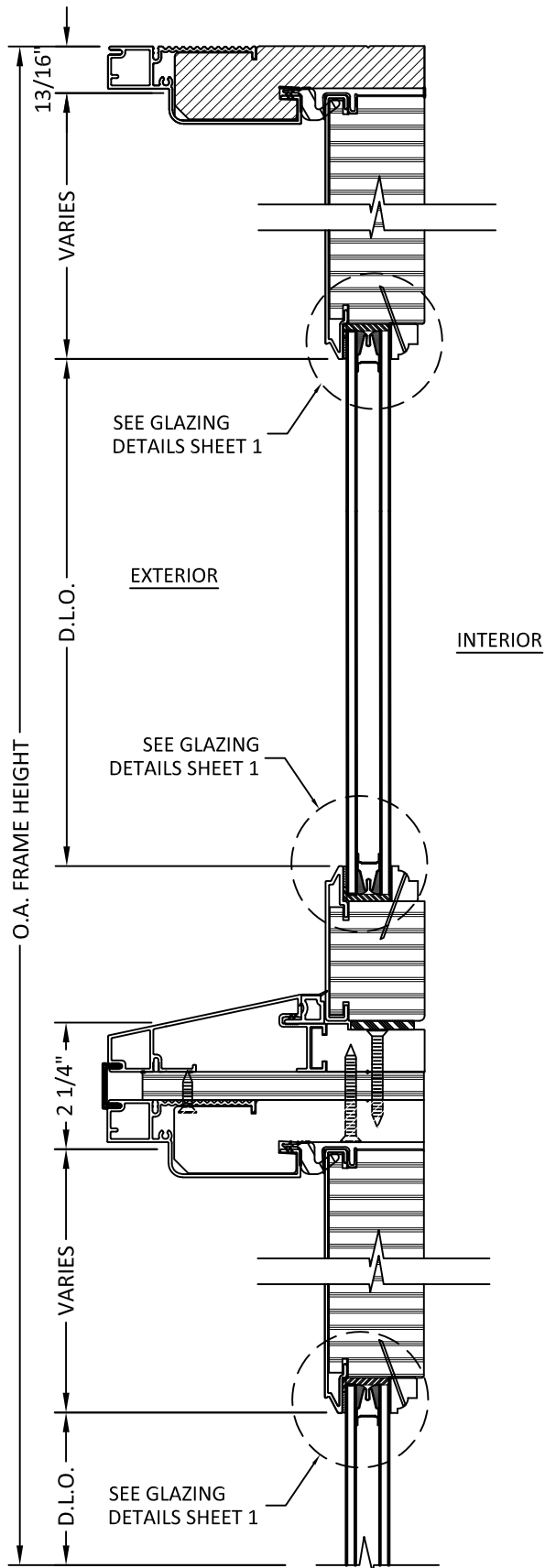
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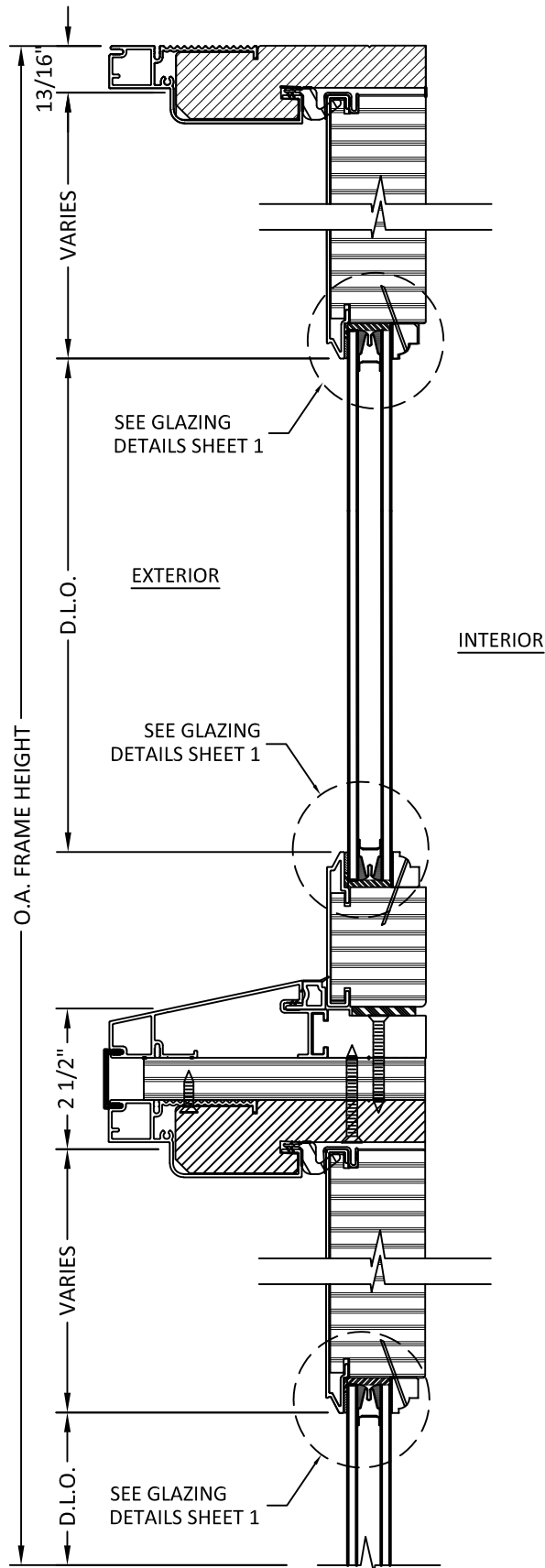
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3.2

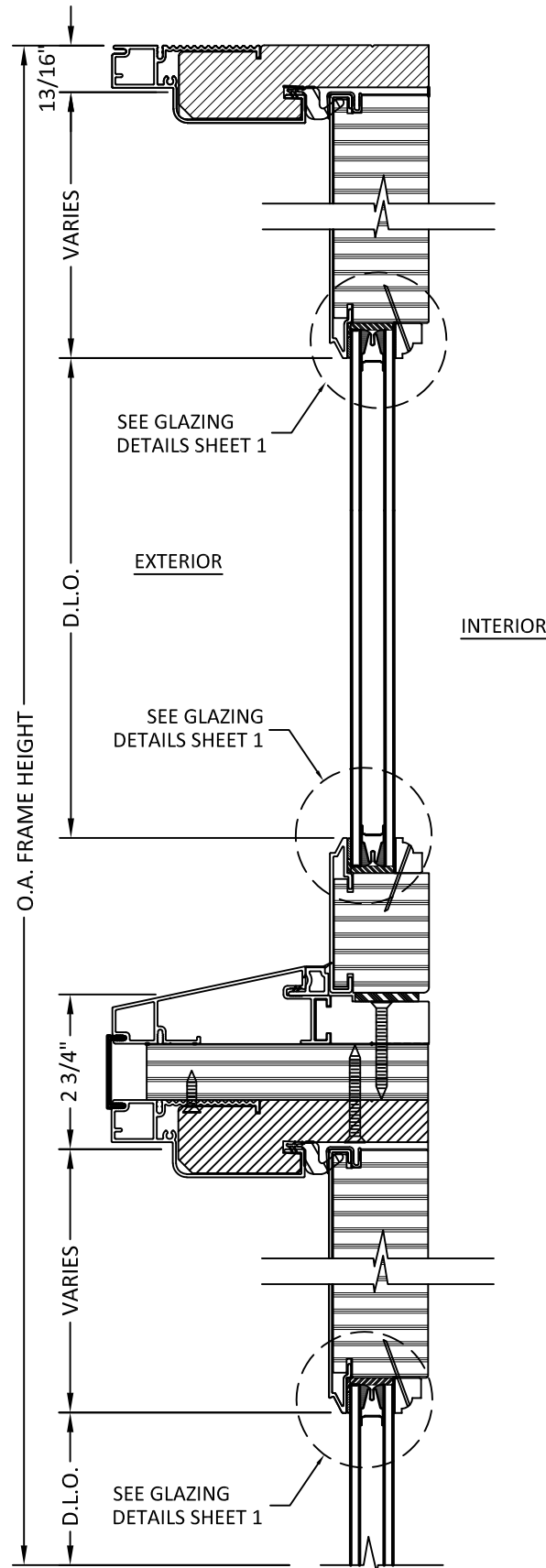
[PAGE 6 of 26]



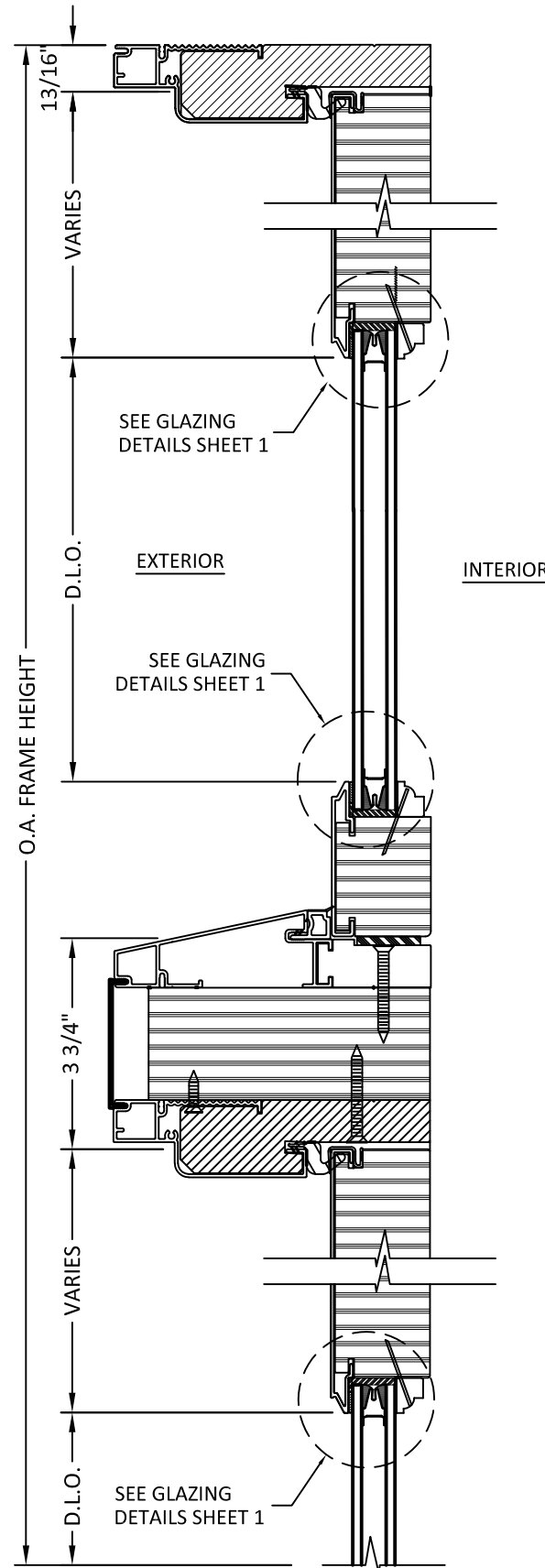
1
3.2 VERTICAL SECTION
TRANSOM
1/2" X 5 3/16" LVL MULLION



2
3.2 VERTICAL SECTION
TRANSOM
3/4" X 5 3/16" LVL MULLION



3
3.2 VERTICAL SECTION
TRANSOM
1" X 5 3/16" LVL MULLION



4
3.2 VERTICAL SECTION
TRANSOM
2" X 5 3/16" LVL MULLION

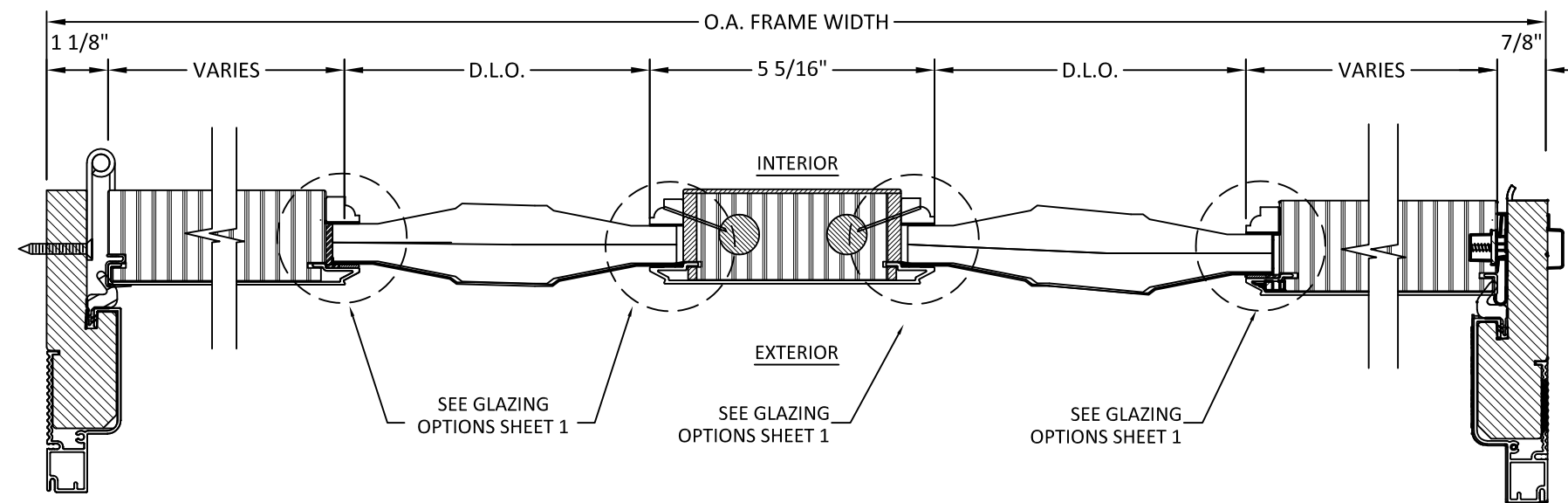


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HORIZONTAL SECTIONS

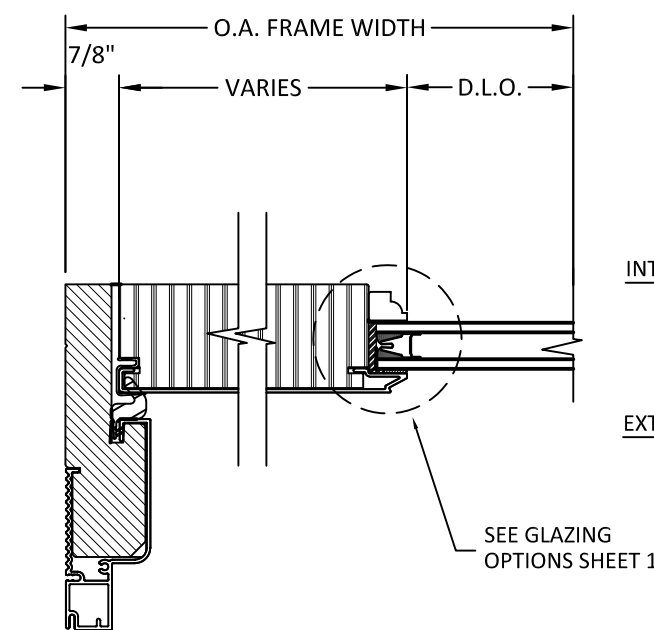
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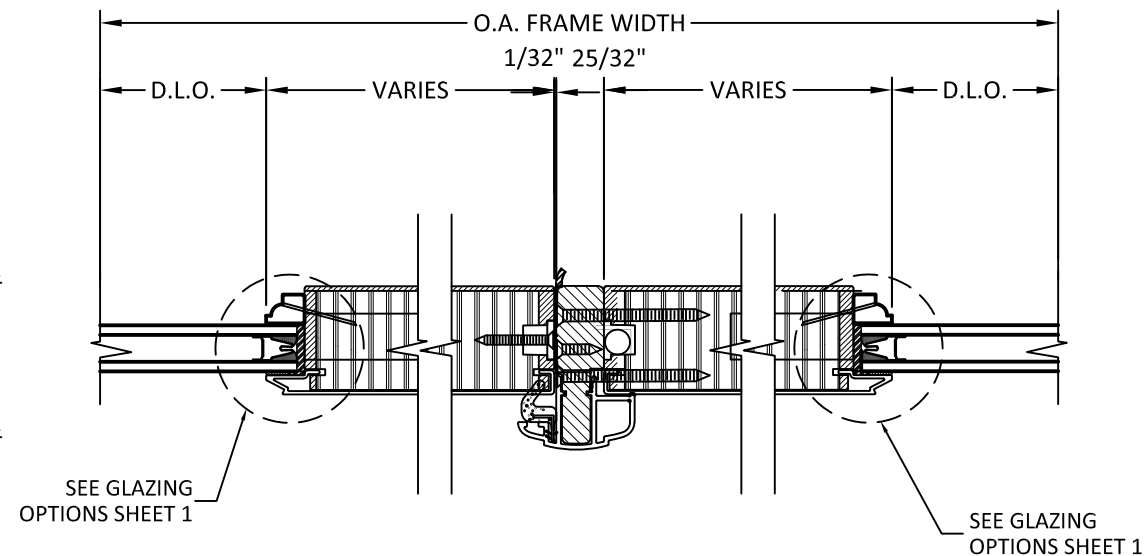
1 HORIZONTAL SECTION
4.0 HINGE JAMB
WOOD PANEL INSERT

2 HORIZONTAL SECTION
4.0 MULLION
WOOD PANEL INSERT

3 HORIZONTAL SECTION
4.0 LOCK JAMB
WOOD PANEL INSERT



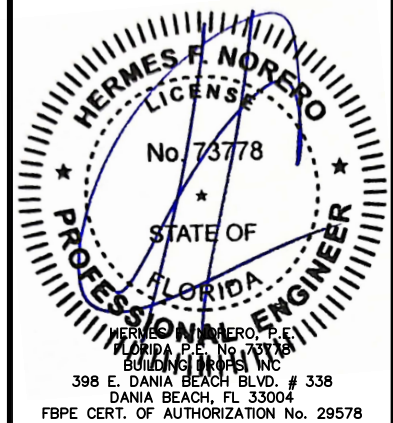
4 HORIZONTAL SECTION
4.0 SIDELITE JAMB



5 HORIZONTAL SECTION
4.0 ASTRAGAL

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SCALE: **NTS**

DWG. #: **AWD229**

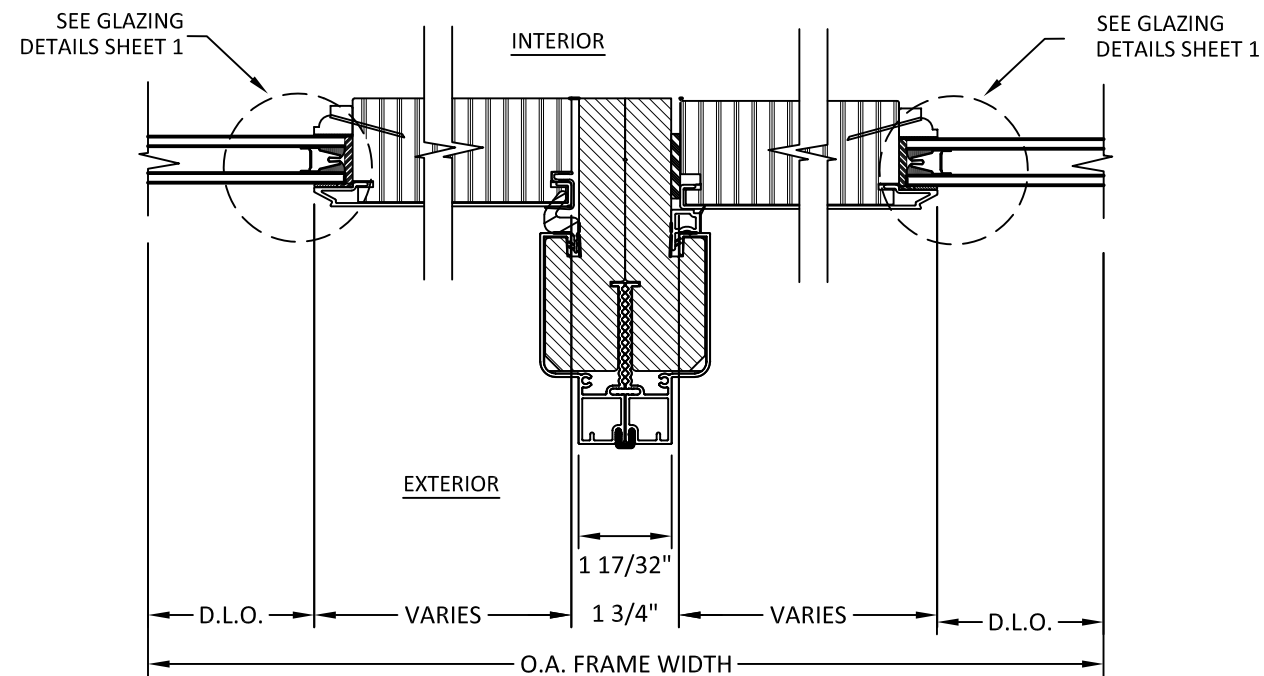
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4.0

6/9/2023 9:47 AM

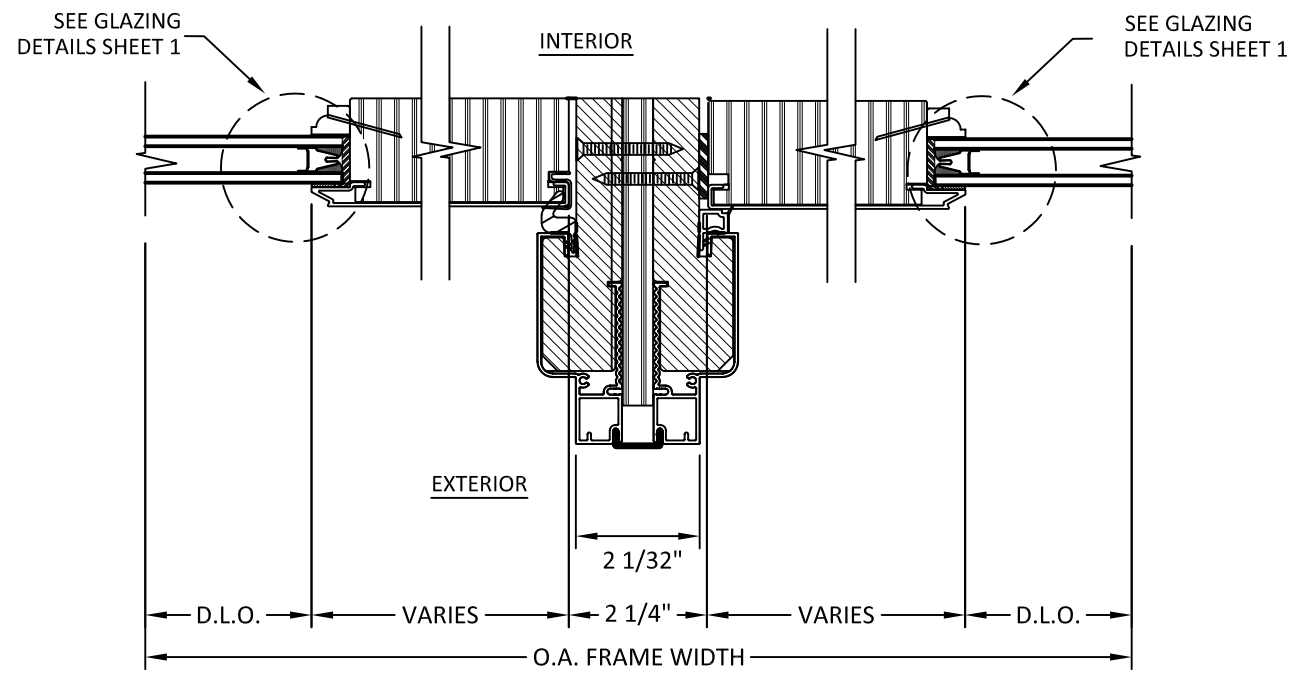
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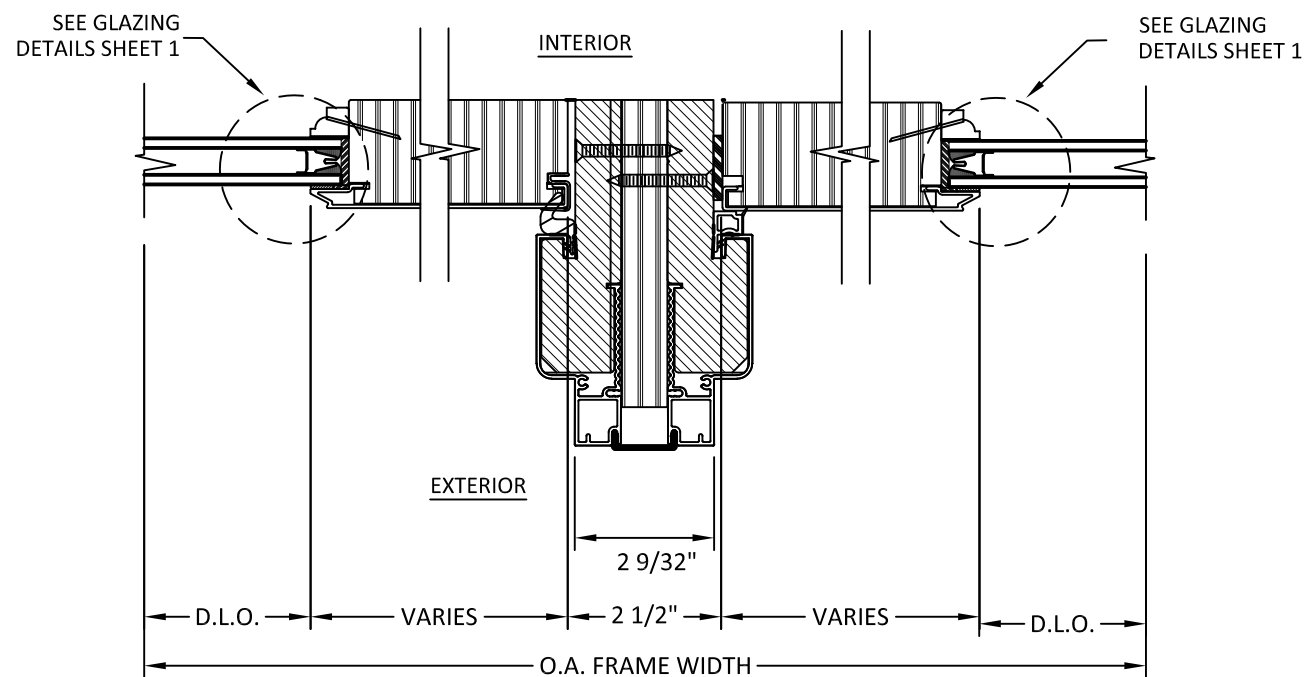
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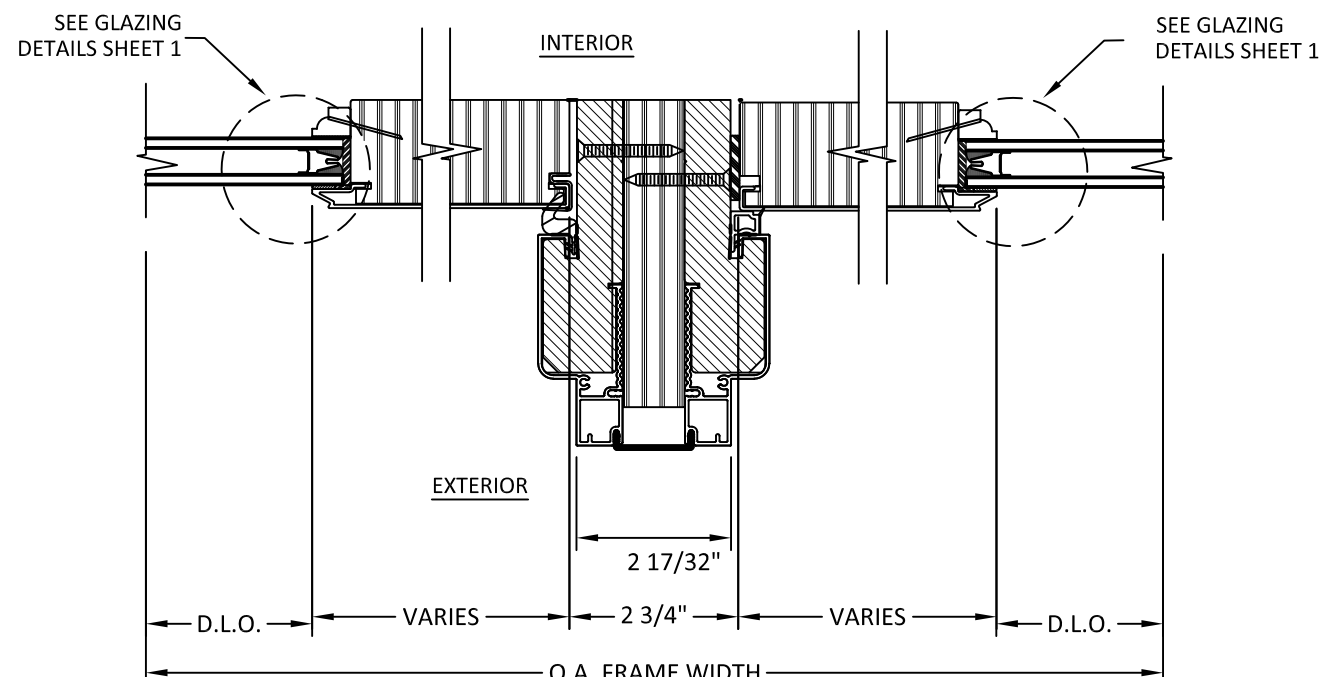
1 HORIZONTAL SECTION
4.1 ZERO MULLION
 OPERABLE TO FIXED



2 HORIZONTAL SECTION
4.1 1/2" X 5-3/16" MULLION
 OPERABLE TO FIXED



3 HORIZONTAL SECTION
4.1 3/4" X 5-3/16" MULLION
 OPERABLE TO FIXED



4 HORIZONTAL SECTION
4.1 1" X 5-3/16" MULLION
 OPERABLE TO FIXED

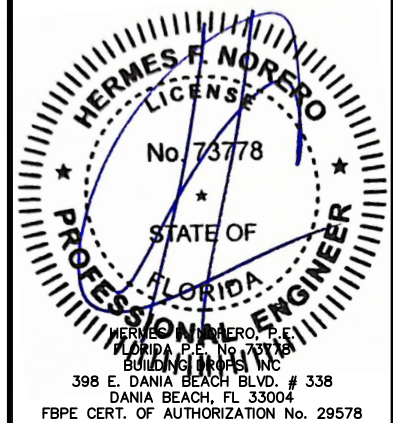


100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (NON-HVHZ)(NON-IMPACT)
 HORIZONTAL SECTIONS
 PREPARED BY: BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478
 FAX: (954) 744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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FL #: **FL25570**
 DATE: **10.02.17**
 DWG. BY: **RV** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD229**
 SECTION **4.1**
 [PAGE 8 of 26]



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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TITLE:
E-SERIES HINGED PATIO DOOR - INSWING
(NON-HVHZ)(NON-IMPACT)

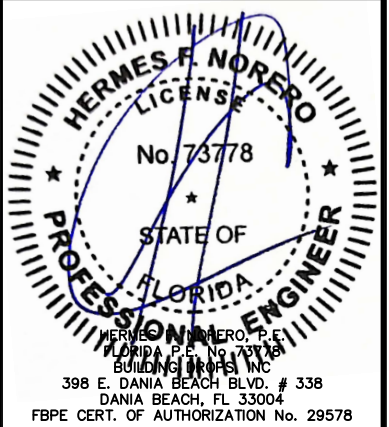
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
PH: (954)399-8478
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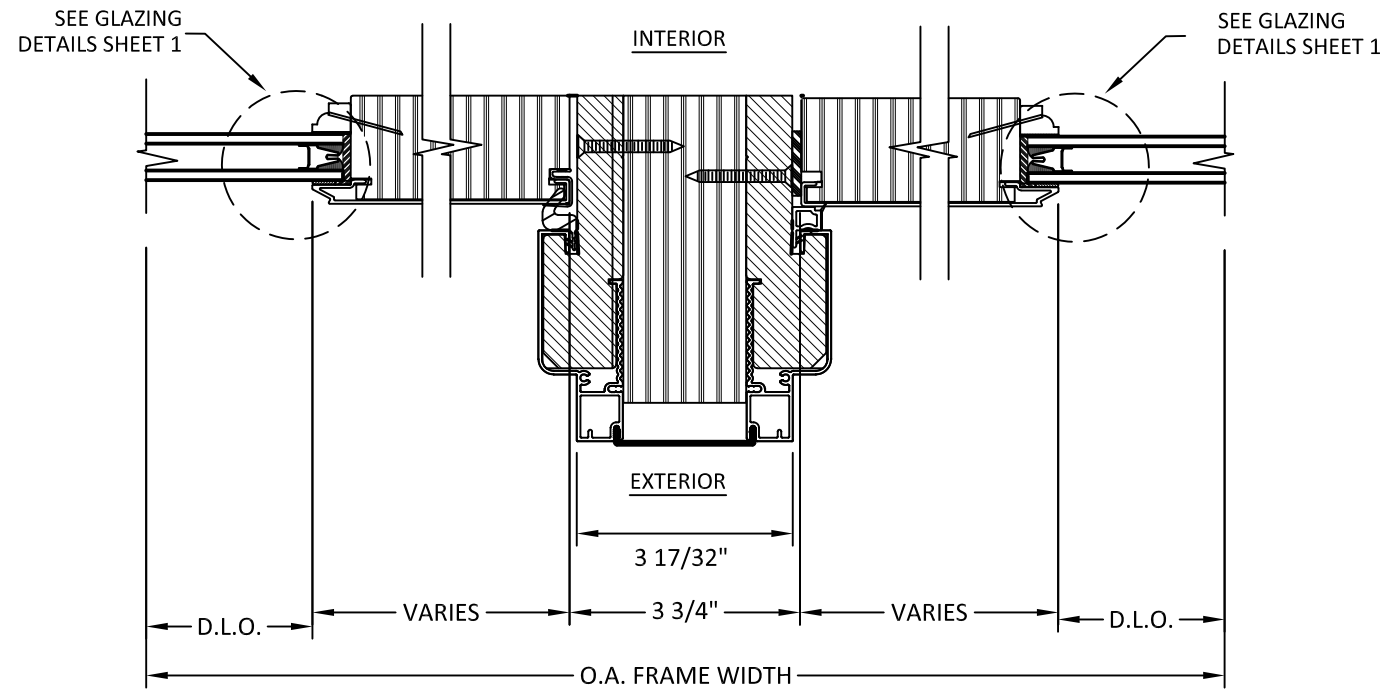
DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

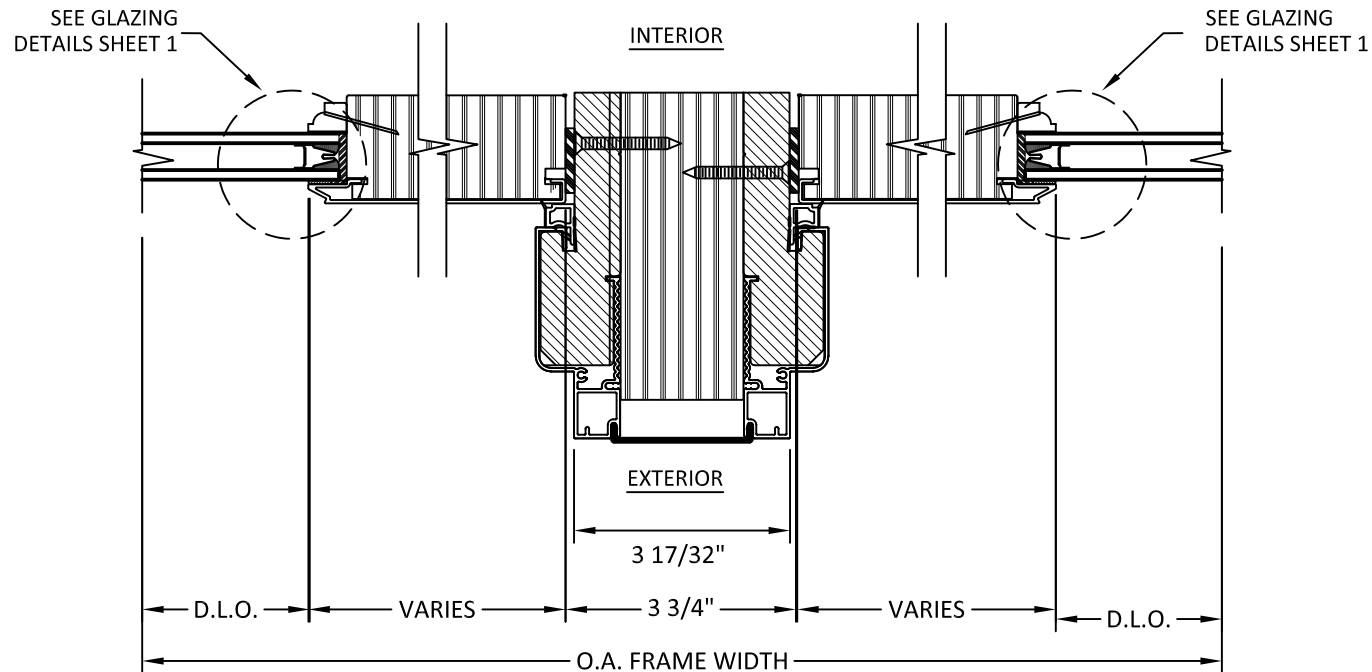
DWG. #: **AWD229**

SECTION

4.2



1 HORIZONTAL SECTION
4.2 2" X 5-3/16" MULLION
OPERABLE TO FIXED



2 HORIZONTAL SECTION
4.2 2" X 5-3/16" MULLION
FIXED TO FIXED

RECTANGULAR PANELS & SIDELITES TYPES

NOTES:

1. REFER TO SECTION 2 FOR CORRESPONDING PANEL TYPES AND CONFIGURATION QUALIFIED TO BE USED WITH THIS APPROVAL.

SP1: 4 11/16" STILES & RAIL 8" BOTTOM RAIL

SP2: 4 11/16" STILES & RAIL 12" BOTTOM RAIL

SP4: 4 11/16" STILES & RAIL

SP5: 3 11/16" STILES & RAIL

SP1M1: 4 11/16" STILES & RAIL 8" BOTTOM RAIL & MID-RAIL

SL1: 2 3/4" STILES & 4 11/16" TOP RAIL 8" BOTTOM RAIL

SL2: 2 3/4" STILES 12" BOTTOM RAIL & 4 11/16" TOP RAIL

SL1R1: 2 3/4" STILES & MID-RAIL 8" BOTTOM RAIL & 4 11/16" TOP RAIL EMBOSSED PANEL

SL1R2: 2 3/4" STILES & MID-RAIL 8" BOTTOM RAIL & 4 11/16" TOP RAIL EMBOSSED PANEL

SL2R3: 2 3/4" STILES & MID-RAIL 12" BOTTOM RAIL & 4 11/16" TOP RAIL EMBOSSED PANEL

SP1M2: 4 11/16" STILES & RAIL 8" BOTTOM RAIL & MID-RAIL

SP2M1: 4 11/16" STILES & RAIL 12" BOTTOM RAIL & MID-RAIL

SP2M2: 4 11/16" STILES & RAIL 12" BOTTOM RAIL & MID-RAIL

SP2M3: 4 11/16" STILES & RAIL 12" BOTTOM RAIL & MID-RAIL

SP1R1: 4 11/16" STILES, RAIL & MID-RAIL 8" BOTTOM RAIL & EMBOSSED PANEL

SP1R2: 4 11/16" STILES, RAIL & MID-RAIL 8" BOTTOM RAIL & EMBOSSED PANEL

SP2R3: 4 11/16" STILES, RAIL & MID-RAIL 12" BOTTOM RAIL & EMBOSSED PANEL

ST1: 4 11/16" STILES & 2 3/4" RAILS

ST2: 2 3/4" STILES & 2 3/4" RAILS

ST3: 4 11/16" STILES & 4 11/16" RAILS

ST4: 2 3/4" STILES & 4 11/16" RAILS

ST5: 3 11/16" STILES & 3 11/16" RAILS

SL1M1: 2 3/4" STILES & 4 11/16" TOP RAIL 8" BOTTOM RAIL & MID-RAIL

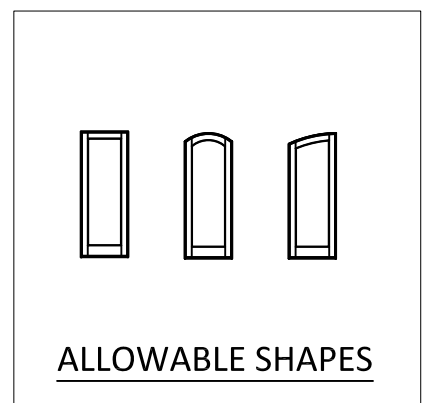
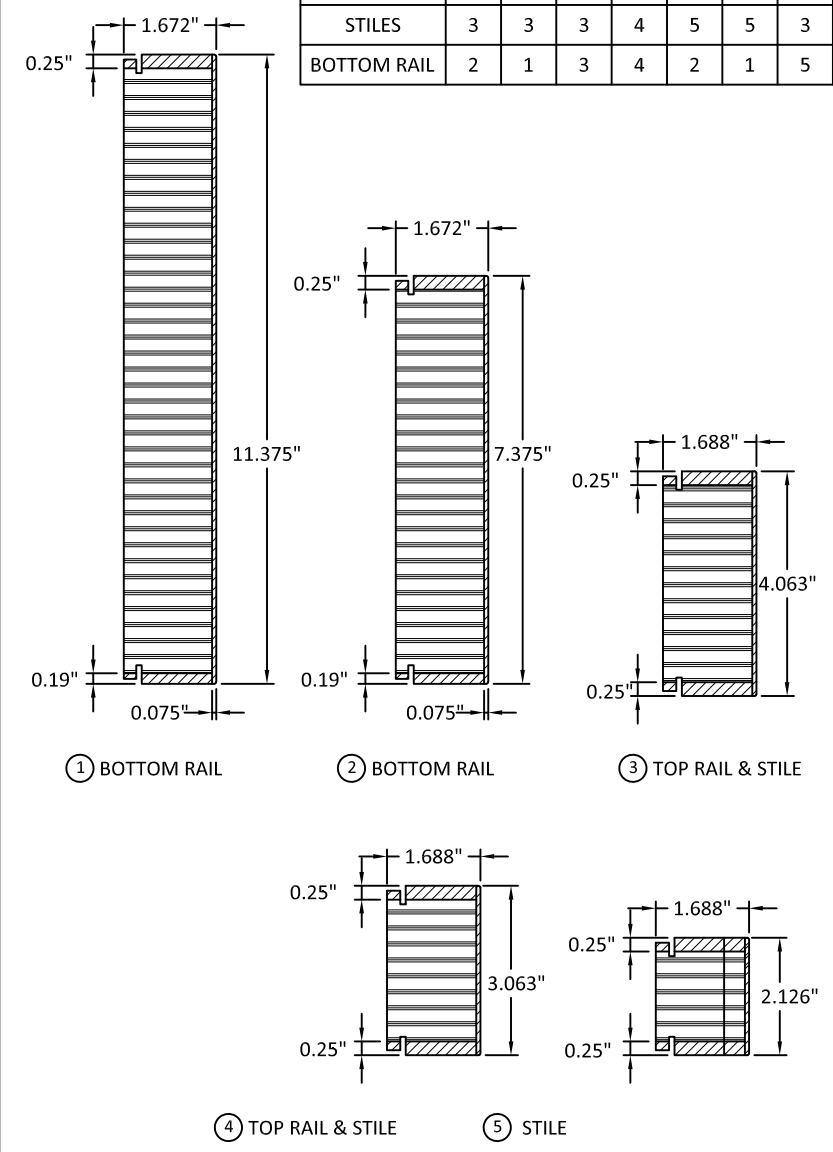
SL1M2: 2 3/4" STILES & 4 11/16" TOP RAIL 8" BOTTOM RAIL & MID-RAIL

SL2M1: 2 3/4" STILES & MID-RAIL 12" BOTTOM RAIL & 4 11/16" TOP RAIL

SL2M2: 2 3/4" STILES & MID-RAIL 12" BOTTOM RAIL & 4 11/16" TOP RAIL

SL2M3: 2 3/4" STILES & MID-RAIL 12" BOTTOM RAIL & 4 11/16" TOP RAIL

	SP1	SP2	SP4	SP5	SL1	SL2	ST1	ST2	ST3	ST4	ST5
TOP RAIL	3	3	3	4	3	3	5	5	3	3	4
STILES	3	3	3	4	5	5	3	5	3	5	4
BOTTOM RAIL	2	1	3	4	2	1	5	5	3	3	4



NOTE: SEE SECTION 5.1, FOR ARCH TOP PANEL AND SIDELITE TYPES.



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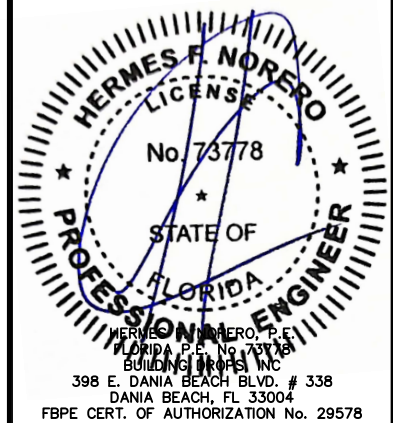
TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (NON-HVHZ)(NON-IMPACT)

PANELS & SIDELITES DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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FL #:

FL25570

DATE: 10.02.17

DWG. BY: RV CHK. BY: HFN

SCALE: NTS

DWG. #: AWD229

SECTION

5.0

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ARCH TOP PANELS & SIDELITES TYPES

NOTES:

- REFER TO SECTION 2 FOR CORRESPONDING PANEL TYPES AND CONFIGURATION QUALIFIED TO BE USED WITH THIS APPROVAL.
- REFER TO SECTION 5.0 FOR RAIL AND STILE DETAILS.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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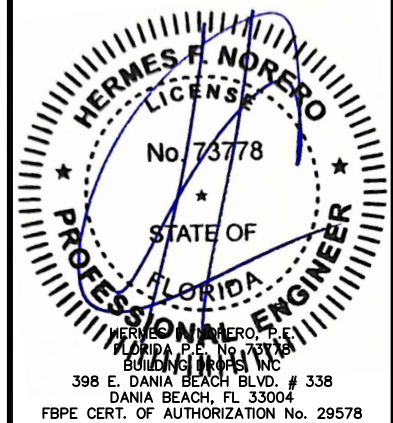
TITLE:
E-SERIES HINGED PATIO DOOR - IN-SWING
(NON-HVHZ)(NON-IMPACT)

PANELS & SIDELITES DETAILS

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SCALE: NTS

DWG. #: AWD229

SECTION
5.1
[PAGE 11 of 26]

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100 FOURTH AVE NORTH
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PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (NON-HVHZ)(NON-IMPACT)

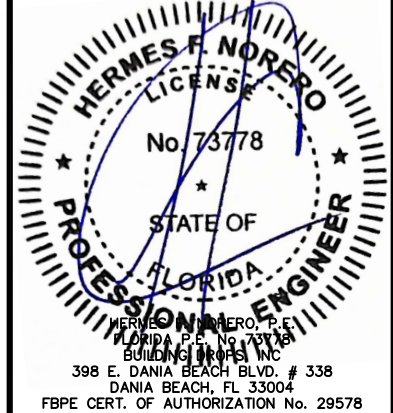
HARDWARE LOCATIONS

PREPARED BY: BUILDING DROPS, INC.
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PH: (954) 399-8478
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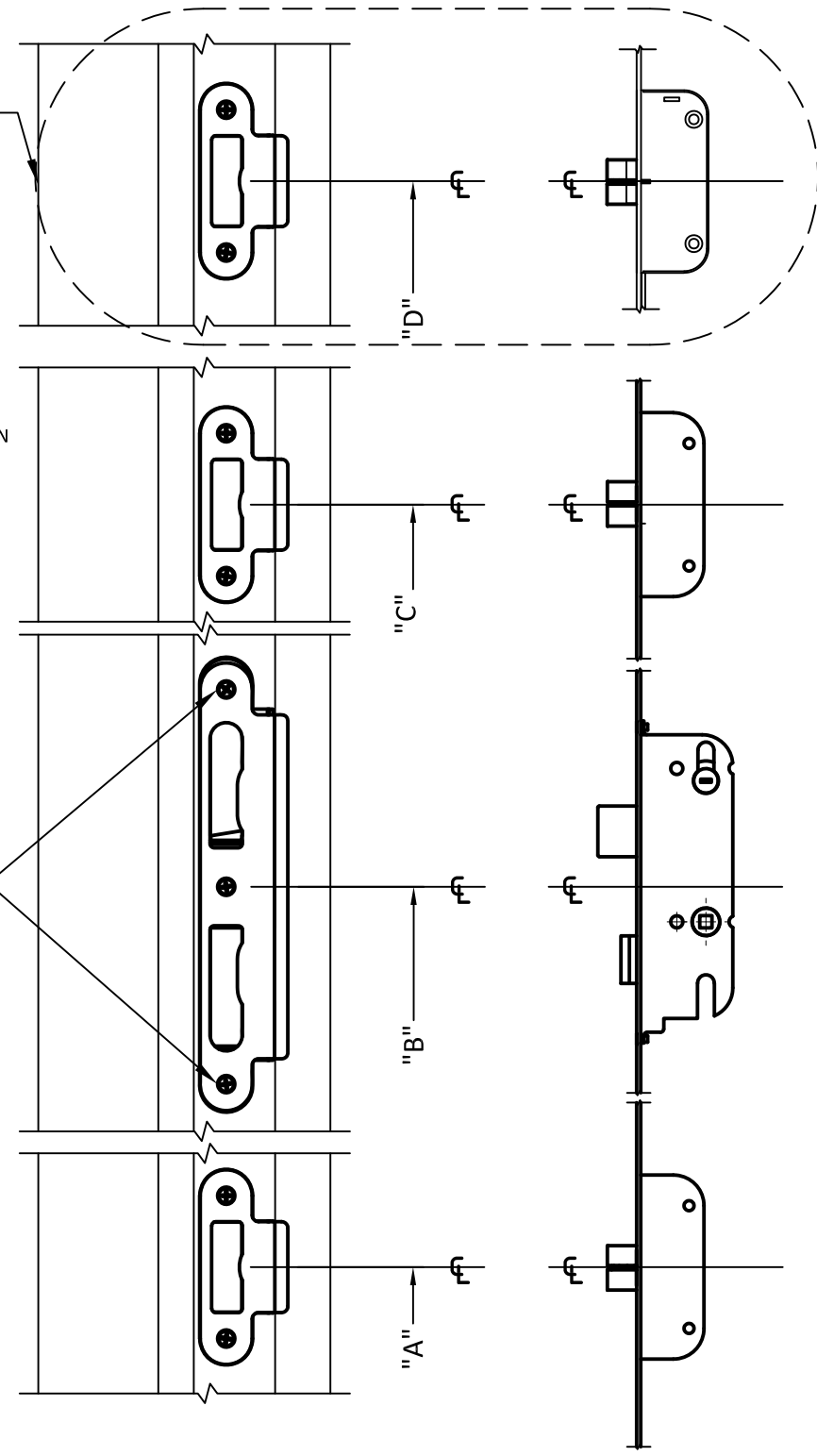
DWG. #: **AWD229**

SECTION

6.0

[PAGE 12 of 26]

**STRIKE LOCATION
USE #8 SCREW TYP.**



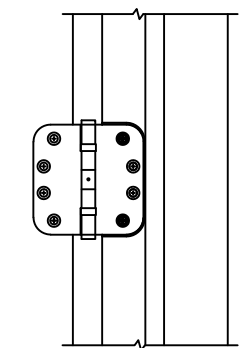
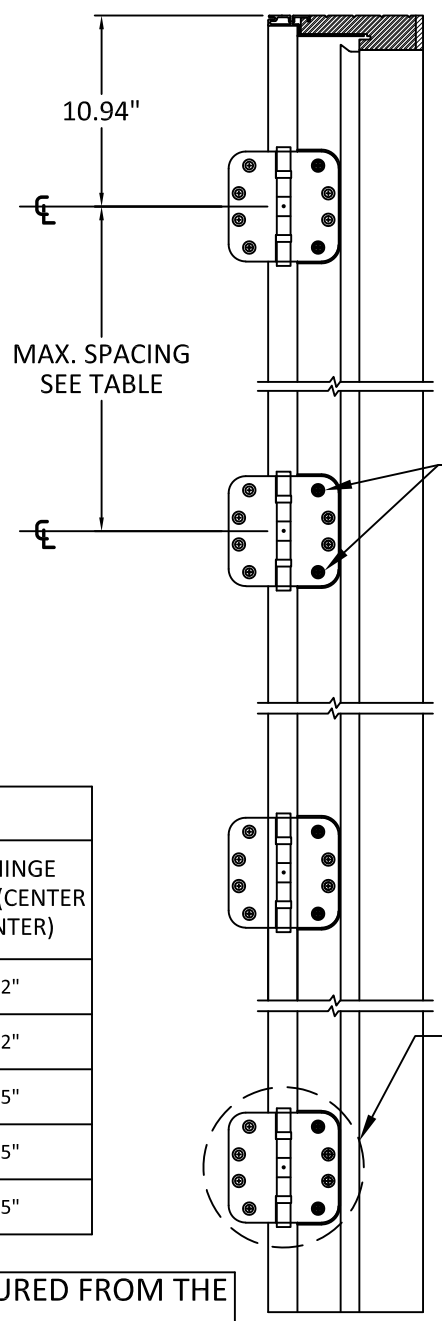
**STRIKE PLATE LOCATIONS
@ ASTRAGAL/JAMB**

APPLIES TO ALL LOCK OPTIONS

**3-PT / 4-PT LOCK SYSTEM
ACTIVE / SINGLE DOOR**

APPLIES TO ALL LOCK OPTIONS

**HINGE LOCATIONS
USE #12 SCREW TYP.**



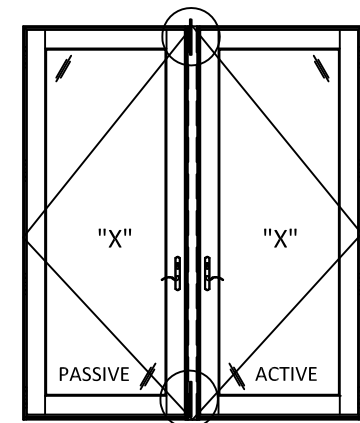
HINGE DETAIL

HINGE LOCATIONS		
FRAME OPENING HEIGHT	ACTUAL DOOR HEIGHT	MAX. HINGE SPACING (CENTER TO CENTER)
80.5"	80"	28.52"
84.5"	84"	30.52"
96.5"	96"	24.35"
102.5"	102"	26.35"
120.5"	120"	32.35"

STRIKE CL LOCATION MEASURED FROM THE BOTTOM					
FRAME OPENING HEIGHT	ACTUAL DOOR HEIGHT	"A"	"B"	"C"	"D"
80.5"	80"			67.469"	
84.5"	84"				N/A
96.5"	96"	14.875"	36.875"	79.675"	
102.5"	102"				
120.5"	120"			67.469"	108.375"

AW HARDWARE

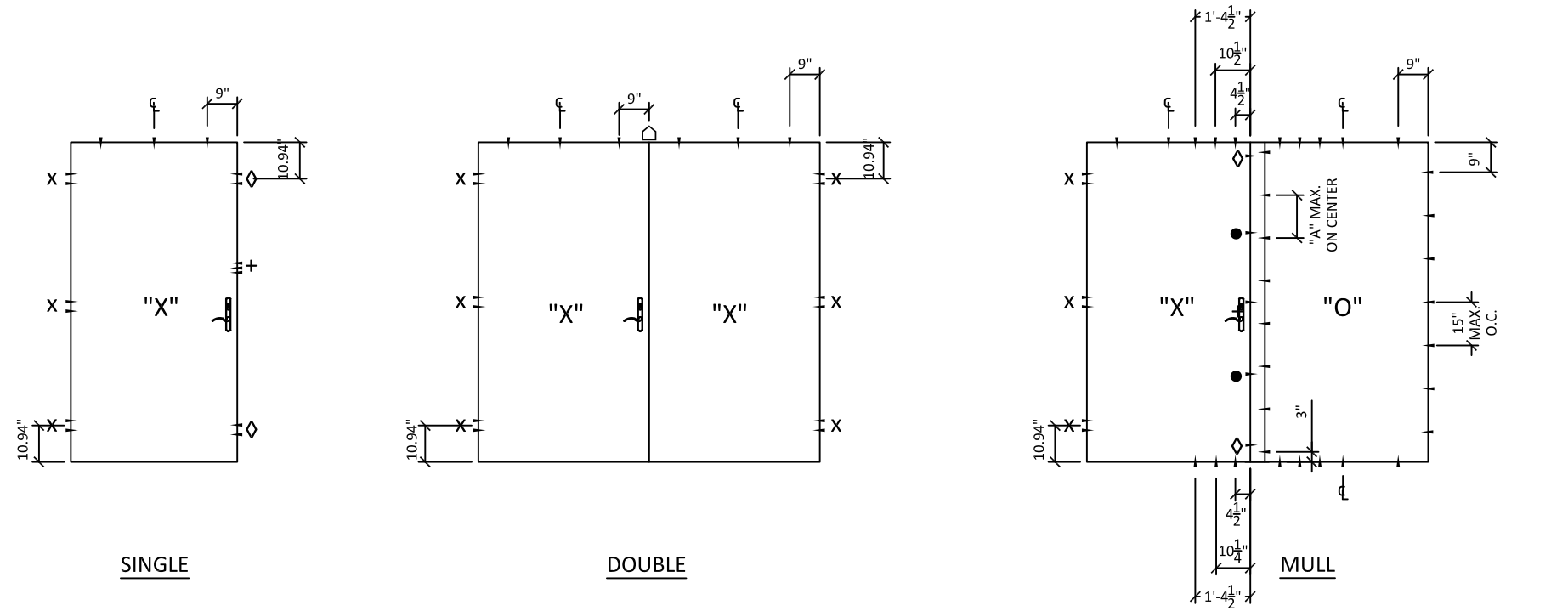
ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 105MM LOCK TO HANDLE SPACING, 50 MM LOCK/HANDLE BACKSET.
PASSIVE LEAF:
HANDLE OPERATED SHOOT BOLT THROUGH ASTRAGAL, LATCH AND DEADBOLT BLOKERS



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ANCHOR LAYOUT - 8FT DOORS



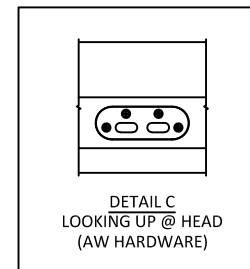
SINGLE

DOUBLE

MULL

ACTIVE DOOR LEGEND "X"	
X	TWO (2) ANCHOR THRU HINGE PLATE
◇	ANCHORS THRU END RECEIVER - WOOD OR METAL: THREE (3) - CONCRETE / MASONRY: TWO (2)
+	ANCHORS THRU CENTER RECEIVER - WOOD OR STEEL: THREE (3) - CONCRETE / MASONRY: TWO (2)
⌠	ANCHORS THRU STRIKE HEAD PLATE: <i>DETAIL C:</i> - WOOD OR STEEL: FOUR (4) - CONCRETE: TWO (2)
•	ANCHOR MID-SPAN BETWEEN HINGES AND STRIKE PLATES

NOTE:
ANCHOR LOCATIONS APPLY TO SCREWS THROUGH FRAME, ALUMINUM NAIL FIN & STRAP INSTALLATION.



DESIGN PRESSURE	"A" DIMENSION
UP TO 65 PSF	13" MAX. O.C.



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TITLE:
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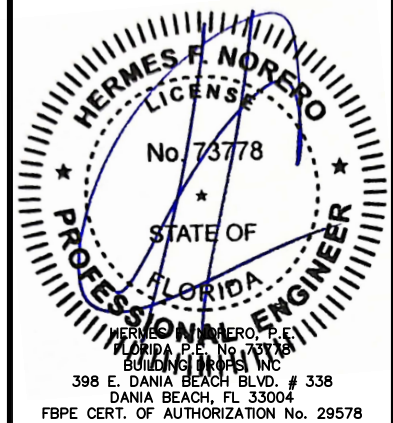
ANCHOR LAYOUTS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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WEB: www.buildingdrops.com



REMARKS	BY	DATE
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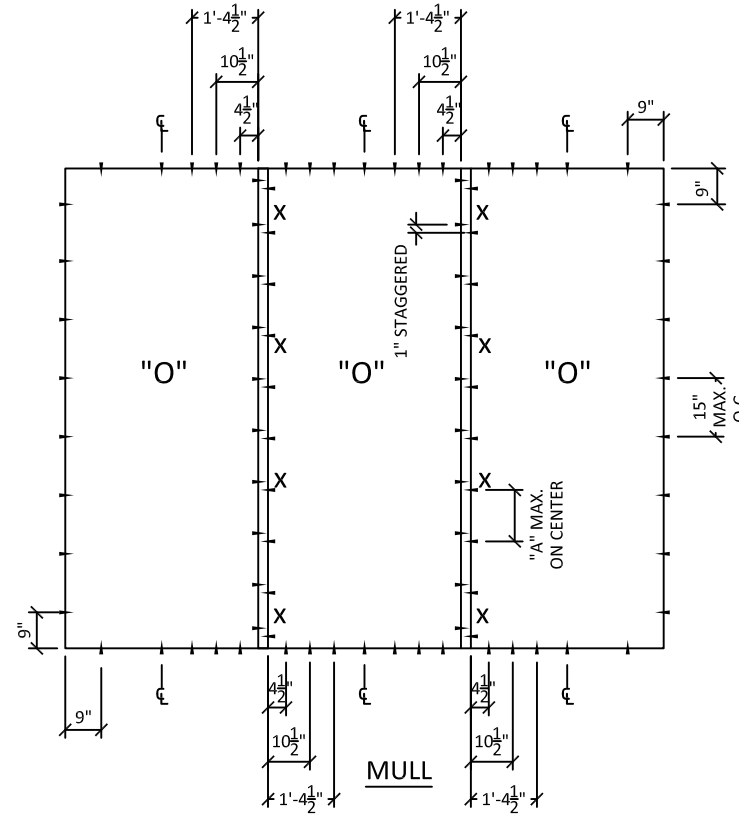
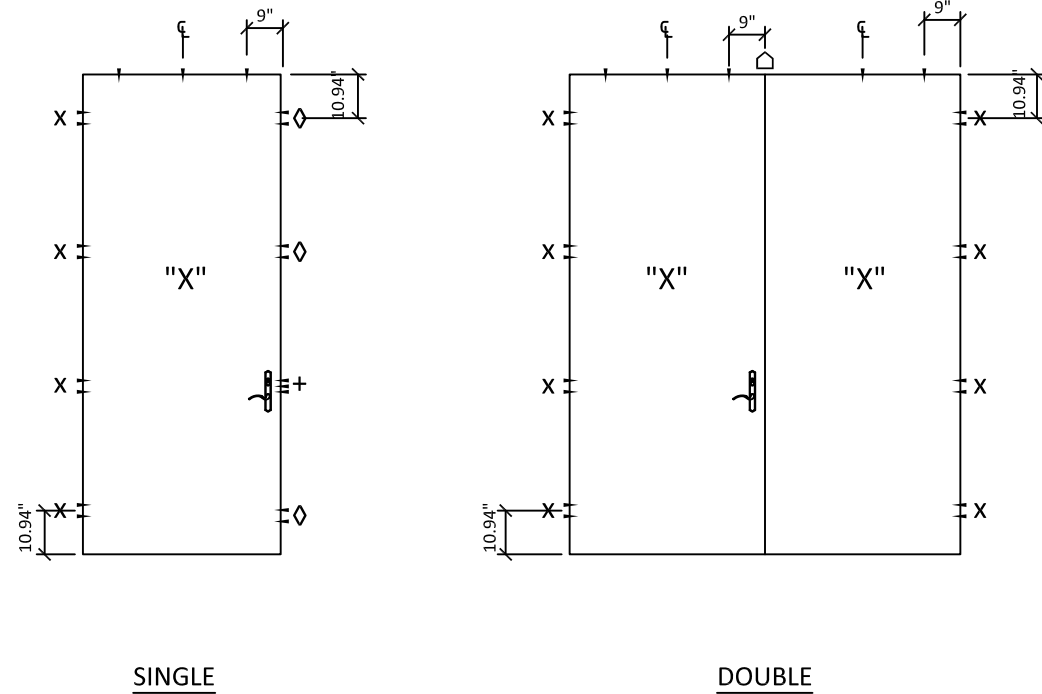
SCALE: **NTS**

DWG. #: **AWD229**

SECTION

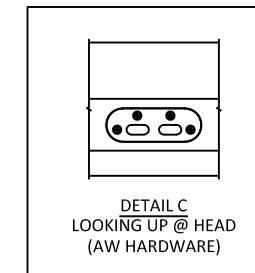
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ANCHOR LAYOUT - 10FT DOORS



ACTIVE DOOR LEGEND "X"	
X	TWO (2) ANCHOR THRU HINGE PLATE
◇	ANCHORS THRU END RECEIVER - WOOD OR METAL: THREE (3) - CONCRETE / MASONRY: TWO (2)
+	ANCHORS THRU CENTER RECEIVER - WOOD OR STEEL: THREE (3) - CONCRETE / MASONRY: TWO (2)
⌂	ANCHORS THRU STRIKE HEAD PLATE: DETAIL C: - WOOD OR STEEL: FOUR (4) - CONCRETE: TWO (2)
•	ANCHOR MID-SPAN BETWEEN HINGES AND STRIKE PLATES

NOTE:
ANCHOR LOCATIONS APPLY TO SCREWS THROUGH FRAME, ALUMINUM NAIL FIN & STRAP INSTALLATION.



DESIGN PRESSURE	"A" DIMENSION
UP TO 65 PSF	13" MAX. O.C.



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TITLE:
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(NON-HVHZ)/(NON-IMPACT)

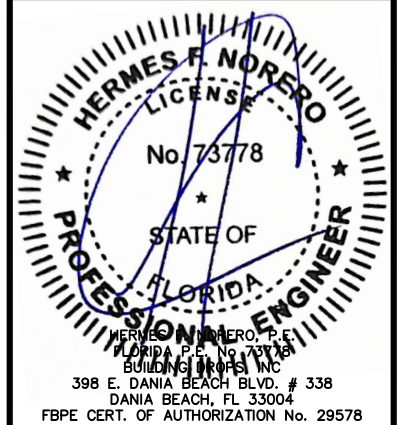
ANCHOR LAYOUTS

PREPARED BY:
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REMARKS	BY	DATE
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2023 FBC CODE CHANGE	MS	5/11/23

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DATE: **10.02.17**

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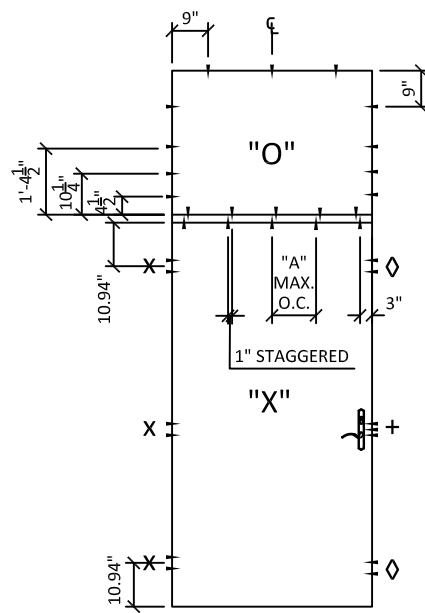
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DWG. #: **AWD229**

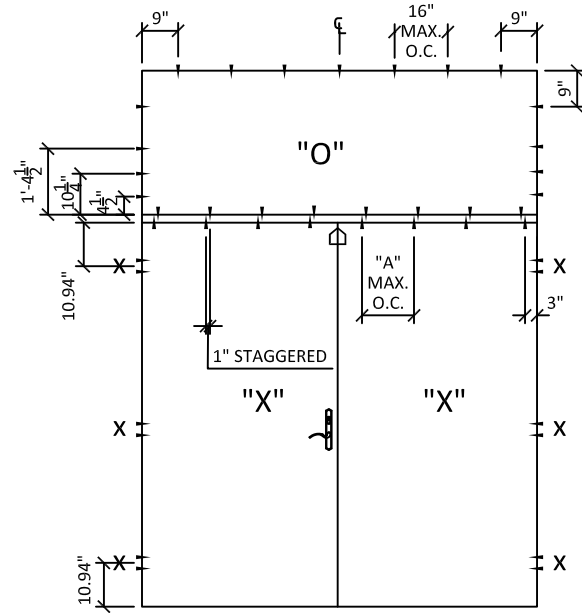
SECTION

7.1

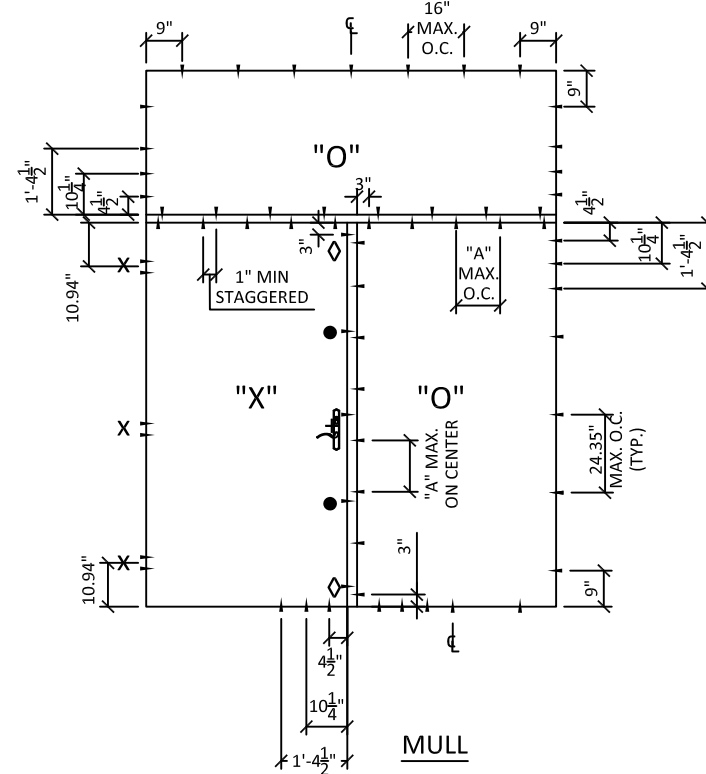
ANCHOR LAYOUT WITH TRANSOM



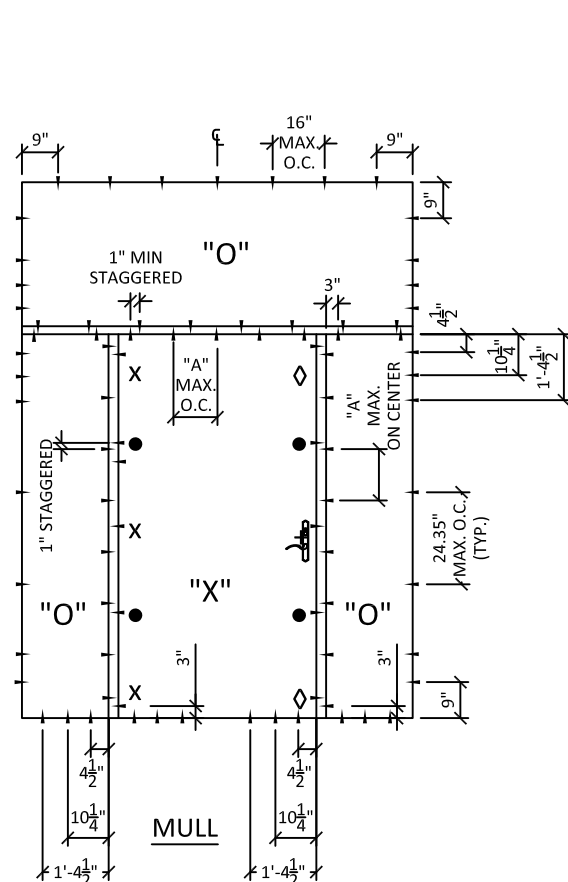
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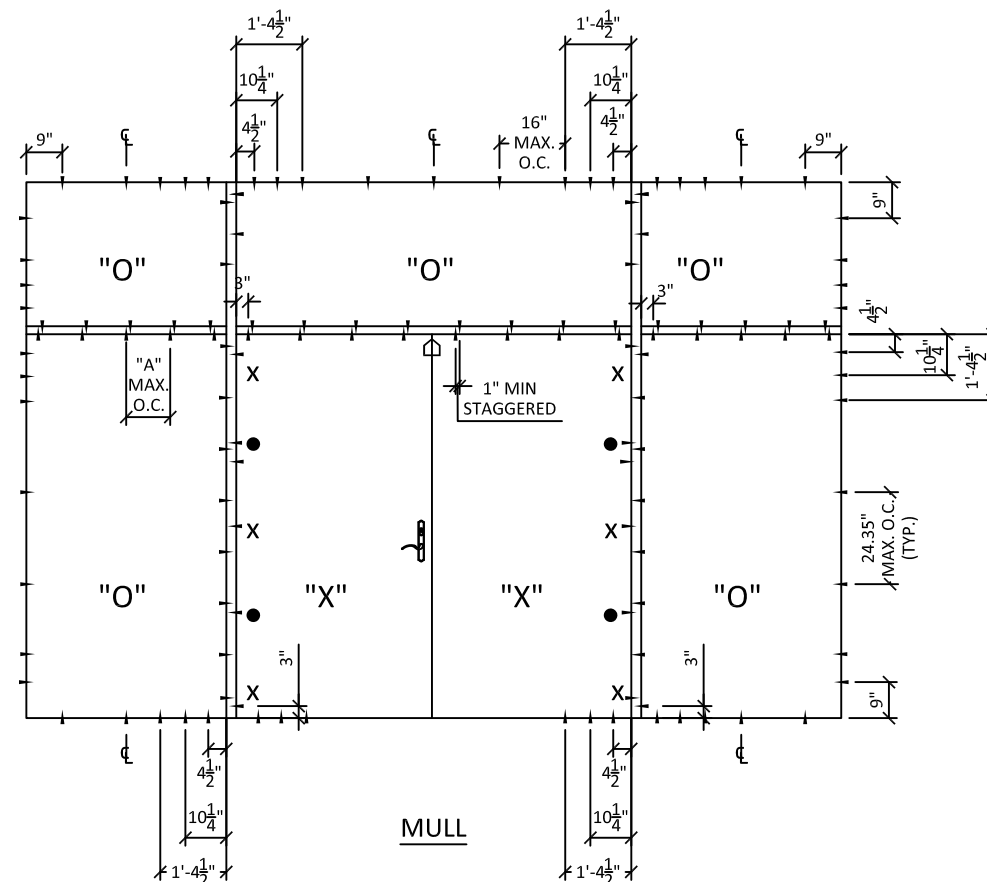
DOUBLE



MULL



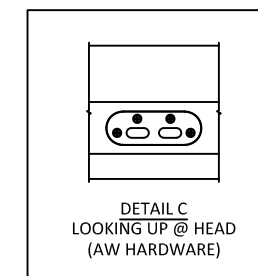
MULL



MULL

ACTIVE DOOR LEGEND "X"	
X	TWO (2) ANCHOR THRU HINGE PLATE
◇	ANCHORS THRU END RECEIVER - WOOD OR METAL: THREE (3) - CONCRETE / MASONRY: TWO (2)
+	ANCHORS THRU CENTER RECEIVER - WOOD OR STEEL: THREE (3) - CONCRETE / MASONRY: TWO (2)
⌂	ANCHORS THRU STRIKE HEAD PLATE: DETAIL C: - WOOD OR STEEL: FOUR (4) - CONCRETE: TWO (2)
●	ANCHOR MID-SPAN BETWEEN HINGES AND STRIKE PLATES

NOTE:
ANCHOR LOCATIONS APPLY TO SCREWS THROUGH FRAME,
ALUMINUM NAIL FIN & STRAP INSTALLATION.



DESIGN PRESSURE	"A" DIMENSION
UP TO 65 PSF	13" MAX. O.C.



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

TITLE:
E-SERIES HINGED PATIO DOOR - IN-SWING
(NON-HVHZ)(NON-IMPACT)

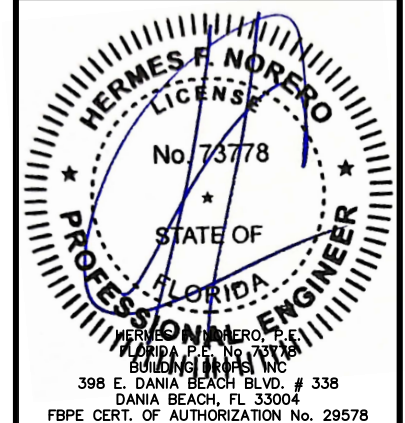
ANCHOR LAYOUTS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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 #:
FL25570

DATE: **10.02.17**

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

SCALE: **NTS**

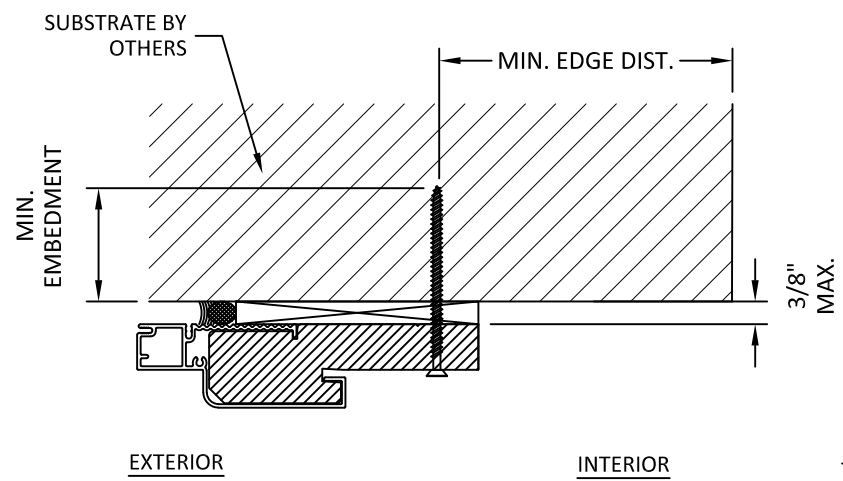
DWG. #: **AWD229**

SECTION

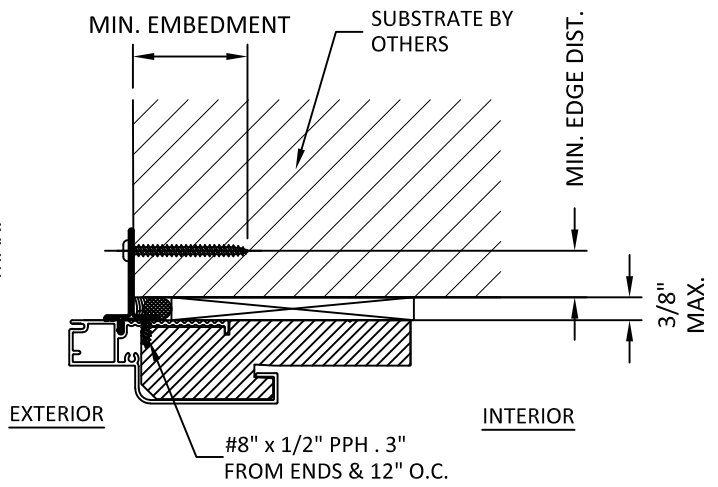
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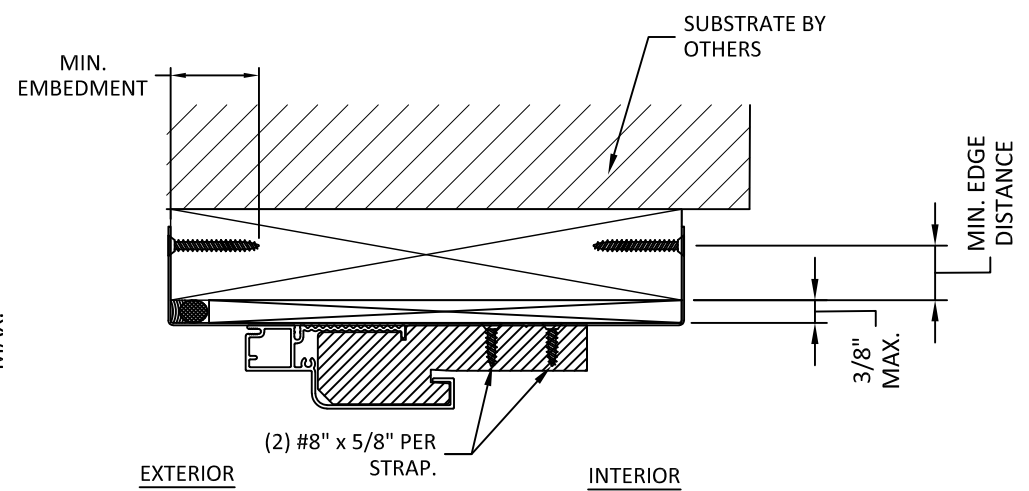
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1
8.0 VERTICAL SECTION
DOOR HEAD OR JAMB OR SILL
THROUGH FRAME



2
8.0 VERTICAL SECTION
DOOR HEAD OR JAMB OR SILL
ALUMINUM NAIL FIN



3
8.0 VERTICAL SECTION
DOOR HEAD OR JAMB OR SILL
STRAP

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR MASONRY OR CONCRETE OPENINGS A 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.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS (20 GAUGE).
 - ALUMINUM - MINIMUM 6063-T5 ALLOY. MINIMUM WALL THICKNESS OF 1/8".

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. SG = 0.55	#12 WOOD SCREW	1.5"	0.75"
	METAL: 18 GAUGE , MIN. Fy=33KSI	#14 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"
	CONCRETE: f'c = 3000PSI	1/4" ITW TAPCON	1.75"	1"
	MASONRY: CMU per ASTM C90 f'c = 2000PSI	1/4" ITW TAPCON	1.75"	2.5"
STRAP ANCHOR	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.5"	0.75"
	METAL: 18 GAUGE , MIN. Fy=33KSI	#14 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"
ALUMINUM NAIL FIN	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy=33KSI	#8 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"
STRIKE PLATES	SEE SECTIONS 6 & 7 FOR QUANTITIES OF INSTALLATION ANCHORS AS MENTIONED ABOVE			
HINGES	2 ANCHORS PER HINGE SEE SECTIONS 6 & 7			

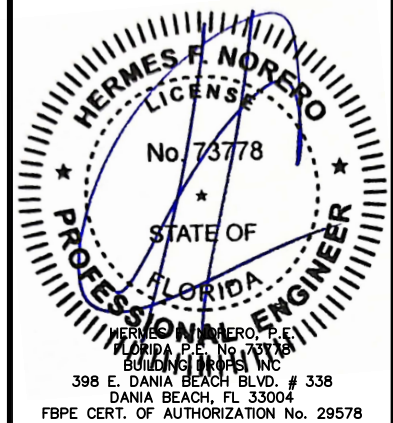


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (NON-HVHZ)(NON-IMPACT)
ANCHOR DETAILS, SCHEDULE & NOTES
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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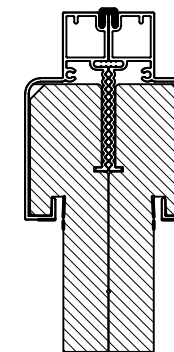
FL #: **FL25570**
DATE: **10.02.17**
DWG. BY: **RV** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **AWD229**
SECTION **8.0**
[PAGE 16 of 26]

**MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
ZERO STRUCTURAL MULLION (ONE-WAY) CONFIGURATION**

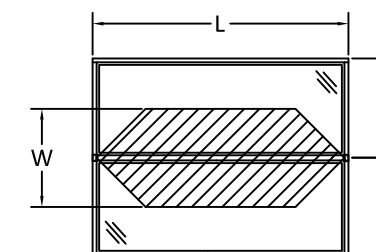
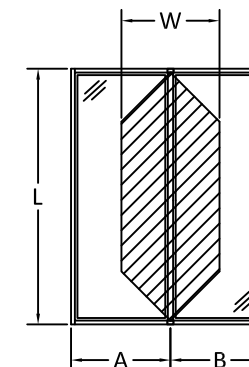
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	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	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
72.0	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
78.0	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
84.0	75.00	75.00	74.40	64.48	59.59	58.05	58.05	58.05	58.05	58.05	58.05	58.05	58.05	58.05	58.05
90.0	75.00	75.00	59.43	50.92	46.35	44.33	44.05	44.05	44.05	44.05	44.05	44.05	44.05	44.05	44.05
96.0	75.00	61.52	48.27	40.98	36.85	34.72	34.03	34.03	34.03	34.03	34.03	34.03	34.03	34.03	34.03
102.0	74.25	50.95	39.77	33.52	29.85	27.78	26.84	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70
108.0	62.39	42.68	33.17	27.79	24.55	22.62	21.59	21.24	21.24	21.24	21.24	21.24	21.24	21.24	21.24
114.0	52.93	36.12	27.97	23.32	20.47	18.70	17.67	17.18	17.11	17.11	17.11	17.11	17.11	17.11	17.11
120.0	45.30	30.84	23.81	19.77	17.26	15.65	14.66	14.12	13.94	13.94	13.94	13.94	13.94	13.94	13.94
126.0	39.07	26.55	20.44	16.91	14.70	13.25	12.33	11.77	11.51	11.47	11.47	11.47	11.47	11.47	11.47
132.0	33.93	23.02	17.69	14.59	12.63	11.33	10.47	9.93	9.63	9.52	9.52	9.52	9.52	9.52	9.52
138.0	29.66	20.09	15.41	12.68	10.93	9.77	8.98	8.46	8.15	7.99	7.97	7.97	7.97	7.97	7.97
144.0	26.08	17.64	13.50	11.09	9.53	8.49	7.77	7.28	6.96	6.79	6.72	6.72	6.72	6.72	6.72
150.0	23.05	15.58	11.90	9.75	8.37	7.43	6.77	6.31	6.01	5.82	5.72	5.71	5.71	5.71	5.71
156.0	20.48	13.82	10.55	8.63	7.39	6.54	5.94	5.52	5.22	5.03	4.92	4.88	4.88	4.88	4.88
162.0	18.27	12.32	9.39	7.67	6.55	5.79	5.24	4.85	4.57	4.38	4.26	4.21	4.20	4.20	4.20
168.0	16.37	11.03	8.40	6.85	5.84	5.15	4.65	4.29	4.03	3.85	3.72	3.65	3.63	3.63	3.63
174.0	14.73	9.92	7.54	6.14	5.23	4.60	4.15	3.81	3.57	3.40	3.27	3.20	3.16	3.15	3.15
180.0	13.30	8.95	6.80	5.53	4.70	4.13	3.71	3.41	3.18	3.02	2.90	2.82	2.77	2.75	2.75
186.0	12.04	8.10	6.15	5.00	4.25	3.72	3.34	3.06	2.85	2.69	2.58	2.50	2.45	2.42	2.41
192.0	10.95	7.36	5.58	4.53	3.84	3.37	3.02	2.76	2.56	2.41	2.30	2.22	2.17	2.14	2.13

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 SECTION 8.
- 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



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



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

TITLE:
E-SERIES HINGED PATIO DOOR - IN-SWING
(NON-HVHZ)(NON-IMPACT)

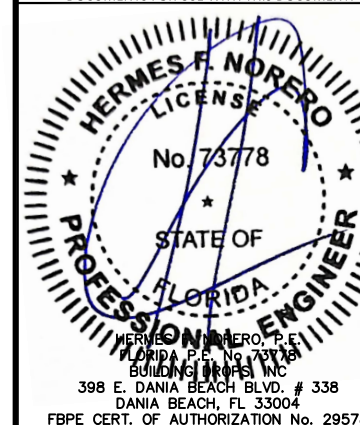
ZERO MULLION LOADS TABLE - ONE WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
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FL #: **FL25570**

DATE: **10.02.17**

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

SCALE: **NTS**

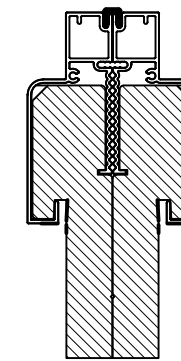
DWG. #: **AWD229**

SECTION
9.0

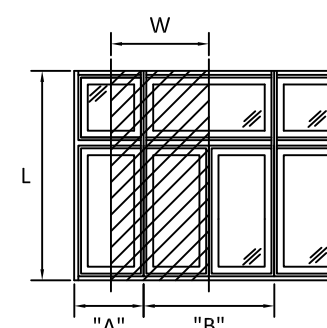
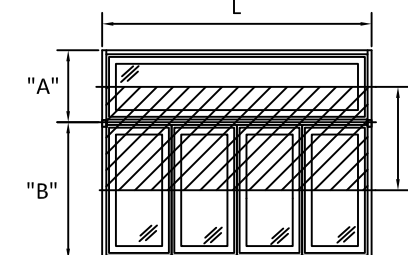
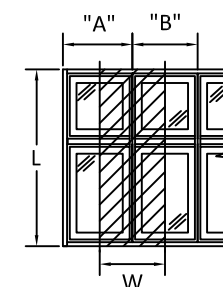
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**MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
ZERO STRUCTURAL MULLION (TWO-WAY) CONFIGURATION**

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	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	47.57	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	39.64	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	54.06	46.34	40.55	36.04	32.44	29.49	27.03	24.95	23.17	21.62	20.27
72.0	60.00	60.00	60.00	59.47	49.56	42.48	37.17	33.04	29.73	27.03	24.78	22.87	21.24	19.82	18.58
78.0	60.00	60.00	60.00	54.89	45.74	39.21	34.31	30.50	27.45	24.95	22.87	21.11	19.60	18.30	17.15
84.0	60.00	60.00	60.00	50.97	42.48	36.41	31.86	28.32	25.49	23.17	21.24	19.60	18.20	16.99	15.93
90.0	60.00	60.00	52.86	42.29	35.24	30.21	26.43	23.49	21.15	19.22	17.62	16.27	15.10	14.10	13.22
96.0	60.00	58.08	43.56	34.85	29.04	24.89	21.78	19.36	17.42	15.84	14.52	13.40	12.45	11.62	10.89
102.0	60.00	48.42	36.31	29.05	24.21	20.75	18.16	16.14	14.53	13.21	12.10	11.17	10.38	9.68	9.08
108.0	60.00	40.79	30.59	24.47	20.39	17.48	15.30	13.60	12.24	11.12	10.20	9.41	8.74	8.16	7.65
114.0	52.02	34.68	26.01	20.81	17.34	14.86	13.01	11.56	10.40	9.46	8.67	8.00	7.43	6.94	6.50
120.0	44.60	29.74	22.30	17.84	14.87	12.74	11.15	9.91	8.92	8.11	7.43	6.86	6.37	5.95	5.58
126.0	38.53	25.69	19.26	15.41	12.84	11.01	9.63	8.56	7.71	7.01	6.42	5.93	5.50	5.14	4.82
132.0	33.51	22.34	16.76	13.40	11.17	9.57	8.38	7.45	6.70	6.09	5.59	5.16	4.79	4.47	4.19
138.0	29.33	19.55	14.66	11.73	9.78	8.38	7.33	6.52	5.87	5.33	4.89	4.51	4.19	3.91	3.67
144.0	25.81	17.21	12.91	10.32	8.60	7.37	6.45	5.74	5.16	4.69	4.30	3.97	3.69	3.44	3.23
150.0	22.84	15.22	11.42	9.13	7.61	6.52	5.71	5.07	4.57	4.15	3.81	3.51	3.26	3.04	2.85
156.0	20.30	13.53	10.15	8.12	6.77	5.80	5.08	4.51	4.06	3.69	3.38	3.12	2.90	2.71	2.54
162.0	18.13	12.09	9.06	7.25	6.04	5.18	4.53	4.03	3.63	3.30	3.02	2.79	2.59	2.42	2.27
168.0	16.25	10.84	8.13	6.50	5.42	4.64	4.06	3.61	3.25	2.96	2.71	2.50	2.32	2.17	2.03
174.0	14.63	9.75	7.32	5.85	4.88	4.18	3.66	3.25	2.93	2.66	2.44	2.25	2.09	1.95	1.83
180.0	13.22	8.81	6.61	5.29	4.41	3.78	3.30	2.94	2.64	2.40	2.20	2.03	1.89	1.76	1.65
186.0	11.98	7.99	5.99	4.79	3.99	3.42	2.99	2.66	2.40	2.18	2.00	1.84	1.71	1.60	1.50
192.0	10.89	7.26	5.44	4.36	3.63	3.11	2.72	2.42	2.18	1.98	1.81	1.68	1.56	1.45	1.36



ZERO MULLION



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

NOTE:

- 1) MULLION CHART APPLIES TO ZERO 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 SECTION 8.
- 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.

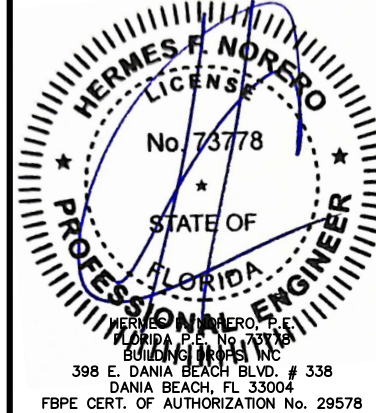


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (NON-HVHZ)(NON-IMPACT)
ZERO MULLION LOADS TABLE - TWO WAY
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

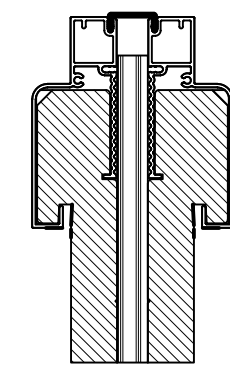
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



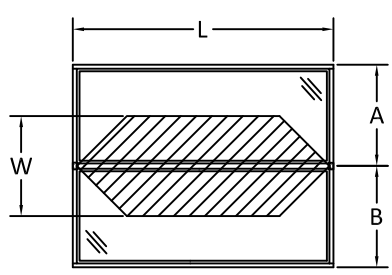
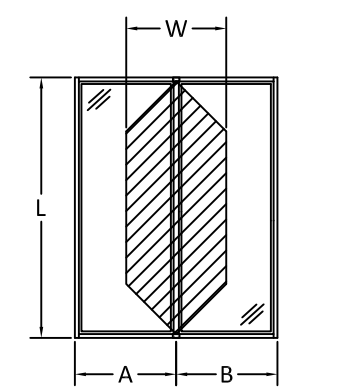
FL #: **FL25570**
DATE: **10.02.17**
DWG. BY: **RV** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **AWD229**
SECTION
9.1
[PAGE 18 of 26]

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	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	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
72.0	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
78.0	75.00	75.00	75.00	75.00	75.00	74.39	74.39	74.39	74.39	74.39	74.39	74.39	74.39	74.39	74.39
84.0	75.00	75.00	75.00	66.94	61.34	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56	59.56
90.0	75.00	75.00	66.84	56.81	51.28	48.75	48.42	48.42	48.42	48.42	48.42	48.42	48.42	48.42	48.42
96.0	75.00	74.42	58.01	48.90	43.63	40.82	39.90	39.90	39.90	39.90	39.90	39.90	39.90	39.90	39.90
102.0	75.00	65.56	50.87	42.59	37.65	34.79	33.44	33.26	33.26	33.26	33.26	33.26	33.26	33.26	33.26
108.0	75.00	57.95	44.99	37.46	32.88	30.08	28.53	28.02	28.02	28.02	28.02	28.02	28.02	28.02	28.02
114.0	71.87	49.04	37.98	31.66	27.79	25.39	23.98	23.33	23.23	23.23	23.23	23.23	23.23	23.23	23.23
120.0	61.50	41.87	32.33	26.84	23.43	21.25	19.91	19.18	18.92	18.92	18.92	18.92	18.92	18.92	18.92
126.0	53.04	36.05	27.76	22.97	19.95	17.99	16.73	15.98	15.62	15.57	15.57	15.57	15.57	15.57	15.57
132.0	46.07	31.26	24.01	19.81	17.14	15.38	14.22	13.48	13.07	12.93	12.93	12.93	12.93	12.93	12.93
138.0	40.27	27.28	20.92	17.21	14.84	13.26	12.20	11.49	11.06	10.85	10.82	10.82	10.82	10.82	10.82
144.0	35.41	23.96	18.33	15.05	12.94	11.52	10.55	9.88	9.45	9.21	9.13	9.13	9.13	9.13	9.13
150.0	31.30	21.15	16.16	13.24	11.36	10.08	9.19	8.57	8.15	7.90	7.77	7.75	7.75	7.75	7.75
156.0	27.80	18.77	14.32	11.71	10.03	8.87	8.06	7.49	7.09	6.83	6.68	6.63	6.63	6.63	6.63
162.0	24.81	16.73	12.75	10.41	8.90	7.85	7.12	6.59	6.21	5.95	5.79	5.71	5.70	5.70	5.70
168.0	22.23	14.98	11.41	9.30	7.93	6.99	6.31	5.82	5.47	5.22	5.06	4.96	4.93	4.93	4.93
174.0	19.99	13.47	10.24	8.34	7.10	6.25	5.63	5.18	4.85	4.61	4.45	4.34	4.29	4.28	4.28
180.0	18.05	12.15	9.23	7.51	6.39	5.61	5.04	4.63	4.32	4.09	3.93	3.82	3.76	3.74	3.74
186.0	16.35	11.00	8.35	6.79	5.76	5.05	4.54	4.15	3.87	3.65	3.50	3.39	3.32	3.28	3.28
192.0	14.86	9.99	7.58	6.15	5.22	4.57	4.10	3.74	3.48	3.28	3.13	3.02	2.95	2.90	2.89



1/2" X 5 3/16" MULLION



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

- 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 SECTION 8.
 - 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.



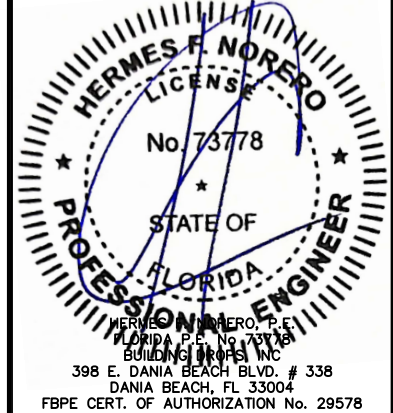
100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (NON-HVHZ)(NON-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) 399-8478
 FAX: (954) 744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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 #: **FL25570**

DATE: **10.02.17**

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

SCALE: **NTS**

DWG. #: **AWD229**

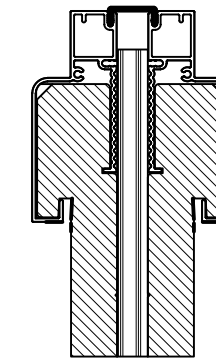
SECTION

9.2

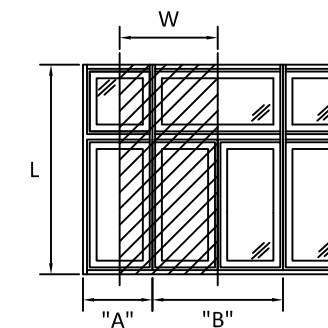
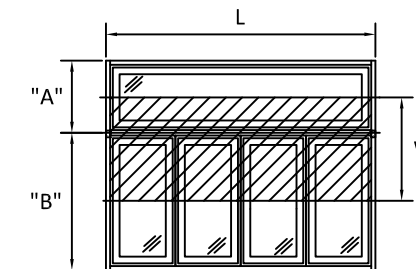
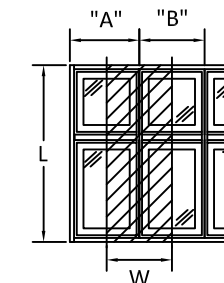
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

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	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	47.57	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	39.64	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	54.06	46.34	40.55	36.04	32.44	29.49	27.03	24.95	23.17	21.62	20.27
72.0	60.00	60.00	60.00	59.47	49.56	42.48	37.17	33.04	29.73	27.03	24.78	22.87	21.24	19.82	18.58
78.0	60.00	60.00	60.00	54.89	45.74	39.21	34.31	30.50	27.45	24.95	22.87	21.11	19.60	18.30	17.15
84.0	60.00	60.00	60.00	50.97	42.48	36.41	31.86	28.32	25.49	23.17	21.24	19.60	18.20	16.99	15.93
90.0	60.00	60.00	59.47	47.57	39.64	33.98	29.73	26.43	23.79	21.62	19.82	18.30	16.99	15.86	14.87
96.0	60.00	60.00	53.20	42.56	35.47	30.40	26.60	23.64	21.28	19.35	17.73	16.37	15.20	14.19	13.30
102.0	60.00	60.00	47.13	37.70	31.42	26.93	23.56	20.94	18.85	17.14	15.71	14.50	13.46	12.57	11.78
108.0	60.00	55.38	41.53	33.23	27.69	23.73	20.77	18.46	16.61	15.10	13.84	12.78	11.87	11.08	10.38
114.0	60.00	47.09	35.32	28.25	23.54	20.18	17.66	15.70	14.13	12.84	11.77	10.87	10.09	9.42	8.83
120.0	60.00	40.37	30.28	24.22	20.19	17.30	15.14	13.46	12.11	11.01	10.09	9.32	8.65	8.07	7.57
126.0	52.31	34.87	26.16	20.92	17.44	14.95	13.08	11.62	10.46	9.51	8.72	8.05	7.47	6.97	6.54
132.0	45.50	30.33	22.75	18.20	15.17	13.00	11.37	10.11	9.10	8.27	7.58	7.00	6.50	6.07	5.69
138.0	39.82	26.54	19.91	15.93	13.27	11.38	9.95	8.85	7.96	7.24	6.64	6.13	5.69	5.31	4.98
144.0	35.04	23.36	17.52	14.02	11.68	10.01	8.76	7.79	7.01	6.37	5.84	5.39	5.01	4.67	4.38
150.0	31.01	20.67	15.50	12.40	10.34	8.86	7.75	6.89	6.20	5.64	5.17	4.77	4.43	4.13	3.88
156.0	27.56	18.38	13.78	11.03	9.19	7.88	6.89	6.13	5.51	5.01	4.59	4.24	3.94	3.68	3.45
162.0	24.61	16.41	12.31	9.85	8.20	7.03	6.15	5.47	4.92	4.48	4.10	3.79	3.52	3.28	3.08
168.0	22.07	14.71	11.03	8.83	7.36	6.31	5.52	4.90	4.41	4.01	3.68	3.40	3.15	2.94	2.76
174.0	19.86	13.24	9.93	7.95	6.62	5.68	4.97	4.41	3.97	3.61	3.31	3.06	2.84	2.65	2.48
180.0	17.94	11.96	8.97	7.18	5.98	5.13	4.49	3.99	3.59	3.26	2.99	2.76	2.56	2.39	2.24
186.0	16.26	10.84	8.13	6.50	5.42	4.65	4.07	3.61	3.25	2.96	2.71	2.50	2.32	2.17	2.03
192.0	14.78	9.86	7.39	5.91	4.93	4.22	3.70	3.29	2.96	2.69	2.46	2.27	2.11	1.97	1.85



1/2" X 5 3/16" MULLION



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

NOTE:

- 1) MULLION CHART APPLIES TO 1/2" 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 SECTION 8.
- 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.

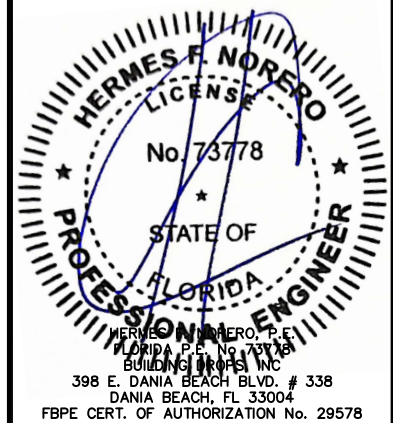


100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (NON-HVHZ)(NON-IMPACT)
 1/2" X 5 3/16" MULLION LOADS TABLE - TWO WAY
 PREPARED BY: BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478
 FAX: (954) 744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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.

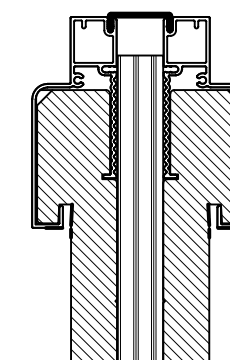


HERMES F. NORERO, P.E.
 FLORIDA P.E. No. 73778
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 FBPE CERT. OF AUTHORIZATION No. 29578

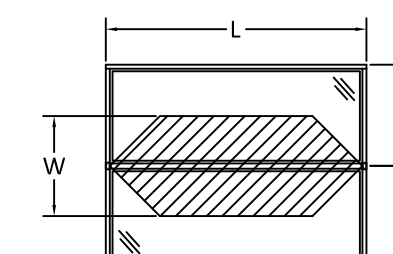
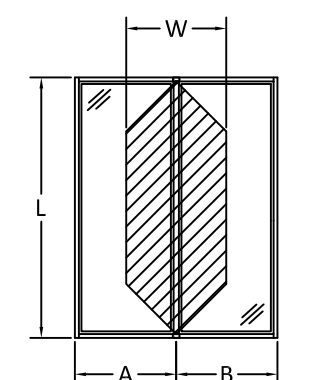
FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD229
SECTION	9.3

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	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	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
72.0	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
78.0	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
84.0	75.00	75.00	75.00	75.00	69.43	67.40	67.40	67.40	67.40	67.40	67.40	67.40	67.40	67.40	67.40
90.0	75.00	75.00	75.00	64.30	58.04	55.17	54.80	54.80	54.80	54.80	54.80	54.80	54.80	54.80	54.80
96.0	75.00	75.00	65.66	55.34	49.38	46.19	45.16	45.16	45.16	45.16	45.16	45.16	45.16	45.16	45.16
102.0	75.00	74.20	57.57	48.20	42.61	39.37	37.85	37.65	37.65	37.65	37.65	37.65	37.65	37.65	37.65
108.0	75.00	65.58	50.91	42.40	37.21	34.04	32.29	31.71	31.71	31.71	31.71	31.71	31.71	31.71	31.71
114.0	75.00	55.50	42.98	35.83	31.45	28.73	27.14	26.40	26.29	26.29	26.29	26.29	26.29	26.29	26.29
120.0	69.60	47.39	36.59	30.38	26.52	24.05	22.53	21.70	21.42	21.42	21.42	21.42	21.42	21.42	21.42
126.0	60.03	40.79	31.41	25.99	22.58	20.36	18.94	18.09	17.68	17.62	17.62	17.62	17.62	17.62	17.62
132.0	52.14	35.37	27.18	22.42	19.40	17.41	16.09	15.26	14.79	14.63	14.63	14.63	14.63	14.63	14.63
138.0	45.58	30.88	23.67	19.48	16.80	15.01	13.80	13.00	12.52	12.28	12.25	12.25	12.25	12.25	12.25
144.0	40.07	27.11	20.75	17.03	14.65	13.04	11.94	11.19	10.70	10.43	10.33	10.33	10.33	10.33	10.33
150.0	35.42	23.94	18.29	14.99	12.86	11.41	10.40	9.70	9.23	8.94	8.80	8.77	8.77	8.77	8.77
156.0	31.46	21.24	16.21	13.26	11.35	10.04	9.12	8.48	8.02	7.73	7.56	7.50	7.50	7.50	7.50
162.0	28.07	18.94	14.43	11.78	10.07	8.89	8.05	7.45	7.03	6.73	6.55	6.46	6.45	6.45	6.45
168.0	25.16	16.95	12.91	10.52	8.98	7.91	7.14	6.59	6.19	5.91	5.72	5.61	5.57	5.57	5.57
174.0	22.63	15.24	11.59	9.44	8.04	7.07	6.37	5.86	5.49	5.22	5.03	4.91	4.85	4.84	4.84
180.0	20.43	13.75	10.45	8.50	7.23	6.34	5.71	5.24	4.89	4.63	4.45	4.33	4.26	4.23	4.23
186.0	18.51	12.45	9.45	7.68	6.52	5.72	5.13	4.70	4.38	4.14	3.96	3.84	3.76	3.72	3.71
192.0	16.82	11.31	8.58	6.96	5.91	5.17	4.64	4.24	3.94	3.71	3.54	3.42	3.33	3.29	3.27



3/4" X 5 3/16" MULLION



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

- NOTE:**
- 1) MULLION CHART APPLIES TO 3/4" 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 SECTION 8.
 - 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.

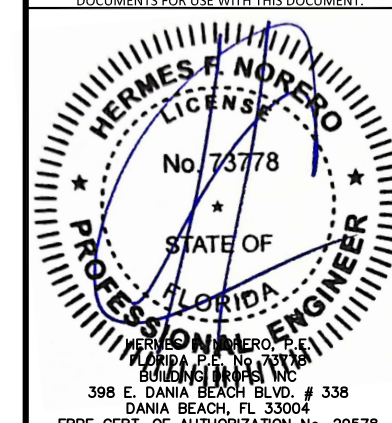


100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (NON-HVHZ)(NON-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) 399-8478
 FAX: (954) 744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

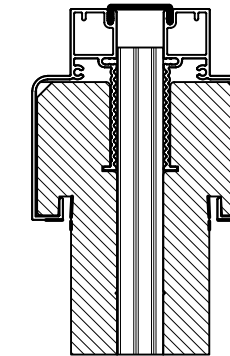
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



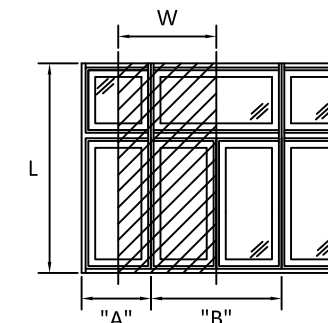
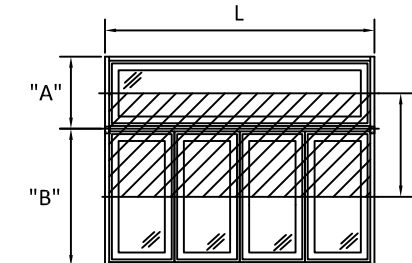
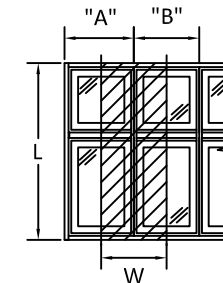
FL #: **FL25570**
 DATE: **10.02.17**
 DWG. BY: **RV** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD229**
 SECTION
9.4
 [PAGE 21 of 26]

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-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	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	39.64	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	54.06	46.34	40.55	36.04	32.44	29.49	27.03	24.95	23.17	21.62	20.27
72.0	60.00	60.00	60.00	59.47	49.56	42.48	37.17	33.04	29.73	27.03	24.78	22.87	21.24	19.82	18.58
78.0	60.00	60.00	60.00	54.89	45.74	39.21	34.31	30.50	27.45	24.95	22.87	21.11	19.60	18.30	17.15
84.0	60.00	60.00	60.00	50.97	42.48	36.41	31.86	28.32	25.49	23.17	21.24	19.60	18.20	16.99	15.93
90.0	60.00	60.00	59.47	47.57	39.64	33.98	29.73	26.43	23.79	21.62	19.82	18.30	16.99	15.86	14.87
96.0	60.00	60.00	55.75	44.60	37.17	31.86	27.88	24.78	22.30	20.27	18.58	17.15	15.93	14.87	13.94
102.0	60.00	60.00	52.47	41.98	34.98	29.98	26.24	23.32	20.99	19.08	17.49	16.14	14.99	13.99	13.12
108.0	60.00	60.00	47.01	37.60	31.34	26.86	23.50	20.89	18.80	17.09	15.67	14.46	13.43	12.53	11.75
114.0	60.00	53.29	39.97	31.97	26.64	22.84	19.98	17.76	15.99	14.53	13.32	12.30	11.42	10.66	9.99
120.0	60.00	45.69	34.27	27.41	22.84	19.58	17.13	15.23	13.71	12.46	11.42	10.54	9.79	9.14	8.57
126.0	59.20	39.47	29.60	23.68	19.73	16.91	14.80	13.16	11.84	10.76	9.87	9.11	8.46	7.89	7.40
132.0	51.49	34.33	25.75	20.60	17.16	14.71	12.87	11.44	10.30	9.36	8.58	7.92	7.36	6.87	6.44
138.0	45.06	30.04	22.53	18.02	15.02	12.87	11.27	10.01	9.01	8.19	7.51	6.93	6.44	6.01	5.63
144.0	39.66	26.44	19.83	15.86	13.22	11.33	9.92	8.81	7.93	7.21	6.61	6.10	5.67	5.29	4.96
150.0	35.09	23.39	17.54	14.04	11.70	10.03	8.77	7.80	7.02	6.38	5.85	5.40	5.01	4.68	4.39
156.0	31.19	20.80	15.60	12.48	10.40	8.91	7.80	6.93	6.24	5.67	5.20	4.80	4.46	4.16	3.90
162.0	27.85	18.57	13.93	11.14	9.28	7.96	6.96	6.19	5.57	5.06	4.64	4.29	3.98	3.71	3.48
168.0	24.98	16.65	12.49	9.99	8.33	7.14	6.24	5.55	5.00	4.54	4.16	3.84	3.57	3.33	3.12
174.0	22.48	14.99	11.24	8.99	7.49	6.42	5.62	5.00	4.50	4.09	3.75	3.46	3.21	3.00	2.81
180.0	20.31	13.54	10.15	8.12	6.77	5.80	5.08	4.51	4.06	3.69	3.38	3.12	2.90	2.71	2.54
186.0	18.40	12.27	9.20	7.36	6.13	5.26	4.60	4.09	3.68	3.35	3.07	2.83	2.63	2.45	2.30
192.0	16.73	11.15	8.37	6.69	5.58	4.78	4.18	3.72	3.35	3.04	2.79	2.57	2.39	2.23	2.09



3/4" X 5 3/16" MULLION



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

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 SECTION 8.
- 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.

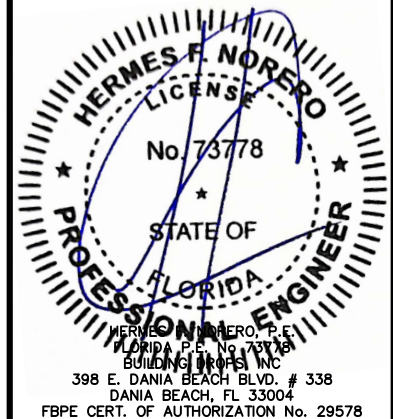


100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (NON-HVHZ)(NON-IMPACT)
 3/4" X 5 3/16" MULLION LOADS TABLE - TWO WAY
 PREPARED BY: BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478
 FAX: (954) 744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

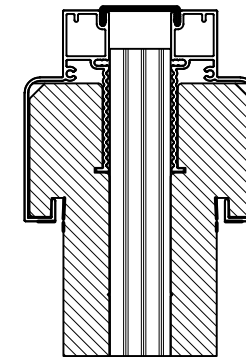
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



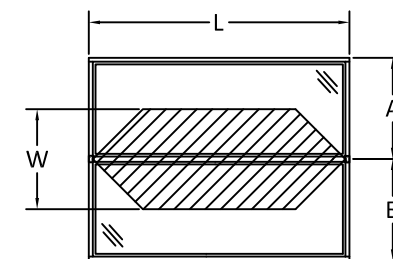
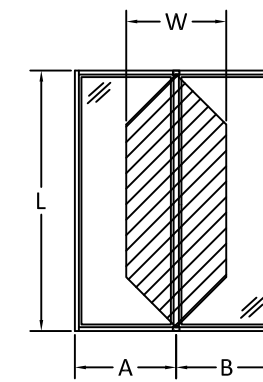
FL #: **FL25570**
 DATE: **10.02.17**
 DWG. BY: **RV** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD229**
 SECTION
9.5
 [PAGE 22 of 26]

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	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	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
72.0	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
78.0	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
84.0	75.00	75.00	75.00	75.00	74.33	72.82	72.82	72.82	72.82	72.82	72.82	72.82	72.82	72.82	72.82
90.0	75.00	75.00	75.00	71.36	64.79	61.59	61.18	61.18	61.18	61.18	61.18	61.18	61.18	61.18	61.18
96.0	75.00	75.00	73.30	61.79	55.13	51.57	50.41	50.41	50.41	50.41	50.41	50.41	50.41	50.41	50.41
102.0	75.00	75.00	64.27	53.81	47.57	43.95	42.25	42.03	42.03	42.03	42.03	42.03	42.03	42.03	42.03
108.0	75.00	73.21	56.84	47.34	41.54	38.00	36.05	35.41	35.41	35.41	35.41	35.41	35.41	35.41	35.41
114.0	75.00	61.96	47.98	40.00	35.11	32.07	30.30	29.48	29.35	29.35	29.35	29.35	29.35	29.35	29.35
120.0	75.00	52.91	40.85	33.91	29.60	26.85	25.15	24.23	23.91	23.91	23.91	23.91	23.91	23.91	23.91
126.0	67.02	45.54	35.07	29.02	25.21	22.74	21.14	20.19	19.74	19.67	19.67	19.67	19.67	19.67	19.67
132.0	58.21	39.49	30.34	25.03	21.66	19.44	17.96	17.03	16.51	16.33	16.33	16.33	16.33	16.33	16.33
138.0	50.88	34.47	26.43	21.74	18.76	16.76	15.41	14.52	13.97	13.71	13.67	13.67	13.67	13.67	13.67
144.0	44.74	30.27	23.17	19.02	16.36	14.56	13.33	12.49	11.95	11.64	11.53	11.53	11.53	11.53	11.53
150.0	39.54	26.72	20.42	16.73	14.35	12.74	11.61	10.83	10.30	9.98	9.82	9.79	9.79	9.79	9.79
156.0	35.12	23.71	18.10	14.80	12.67	11.21	10.19	9.46	8.96	8.63	8.44	8.37	8.37	8.37	8.37
162.0	31.34	21.14	16.11	13.16	11.24	9.92	8.99	8.32	7.84	7.52	7.32	7.21	7.20	7.20	7.20
168.0	28.08	18.93	14.41	11.75	10.02	8.83	7.98	7.36	6.91	6.60	6.39	6.27	6.22	6.22	6.22
174.0	25.26	17.01	12.94	10.54	8.97	7.89	7.11	6.54	6.13	5.83	5.62	5.49	5.42	5.41	5.41
180.0	22.81	15.35	11.66	9.49	8.07	7.08	6.37	5.85	5.46	5.17	4.97	4.83	4.75	4.72	4.72
186.0	20.66	13.90	10.55	8.57	7.28	6.38	5.73	5.25	4.89	4.62	4.42	4.28	4.19	4.15	4.14
192.0	18.78	12.62	9.58	7.77	6.60	5.77	5.17	4.73	4.39	4.14	3.95	3.81	3.72	3.67	3.65



1" X 5 3/16" MULLION



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

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 SECTION 8.
- 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.



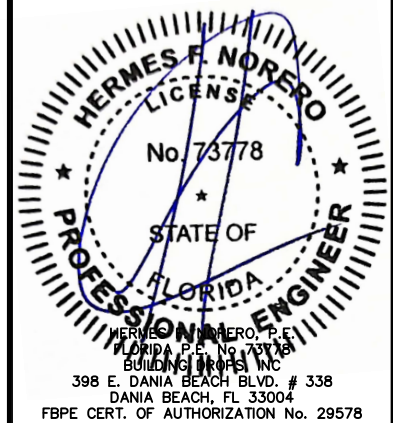
100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE:
 E-SERIES HINGED PATIO DOOR - INSWING
 (NON-HVHZ)(NON-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) 399-8478
 FAX: (954) 744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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 #:
FL25570

DATE: 10.02.17

DWG. BY: RV CHK. BY: HFN

SCALE: NTS

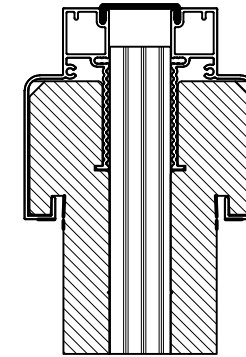
DWG. #: AWD229

SECTION
9.6

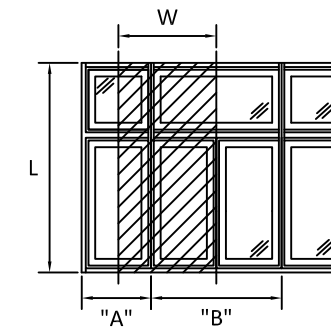
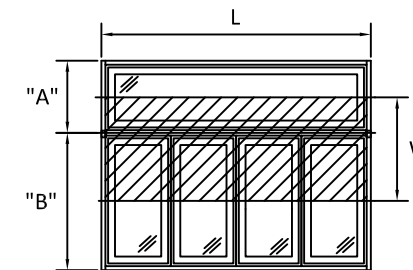
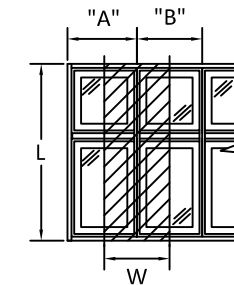
[PAGE 23 of 26]

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
1" X 5-3/16" STRUCTURAL MULLION (TWO-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	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	39.64	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	54.06	46.34	40.55	36.04	32.44	29.49	27.03	24.95	23.17	21.62	20.27
72.0	60.00	60.00	60.00	59.47	49.56	42.48	37.17	33.04	29.73	27.03	24.78	22.87	21.24	19.82	18.58
78.0	60.00	60.00	60.00	54.89	45.74	39.21	34.31	30.50	27.45	24.95	22.87	21.11	19.60	18.30	17.15
84.0	60.00	60.00	60.00	50.97	42.48	36.41	31.86	28.32	25.49	23.17	21.24	19.60	18.20	16.99	15.93
90.0	60.00	60.00	59.47	47.57	39.64	33.98	29.73	26.43	23.79	21.62	19.82	18.30	16.99	15.86	14.87
96.0	60.00	60.00	55.75	44.60	37.17	31.86	27.88	24.78	22.30	20.27	18.58	17.15	15.93	14.87	13.94
102.0	60.00	60.00	52.47	41.98	34.98	29.98	26.24	23.32	20.99	19.08	17.49	16.14	14.99	13.99	13.12
108.0	60.00	60.00	49.56	39.64	33.04	28.32	24.78	22.02	19.82	18.02	16.52	15.25	14.16	13.21	12.39
114.0	60.00	59.49	44.62	35.70	29.75	25.50	22.31	19.83	17.85	16.23	14.87	13.73	12.75	11.90	11.15
120.0	60.00	51.01	38.26	30.60	25.50	21.86	19.13	17.00	15.30	13.91	12.75	11.77	10.93	10.20	9.56
126.0	60.00	44.06	33.05	26.44	22.03	18.88	16.52	14.69	13.22	12.02	11.02	10.17	9.44	8.81	8.26
132.0	57.48	38.32	28.74	22.99	19.16	16.42	14.37	12.77	11.50	10.45	9.58	8.84	8.21	7.66	7.19
138.0	50.31	33.54	25.15	20.12	16.77	14.37	12.58	11.18	10.06	9.15	8.38	7.74	7.19	6.71	6.29
144.0	44.28	29.52	22.14	17.71	14.76	12.65	11.07	9.84	8.86	8.05	7.38	6.81	6.33	5.90	5.53
150.0	39.17	26.12	19.59	15.67	13.06	11.19	9.79	8.71	7.83	7.12	6.53	6.03	5.60	5.22	4.90
156.0	34.83	23.22	17.41	13.93	11.61	9.95	8.71	7.74	6.97	6.33	5.80	5.36	4.98	4.64	4.35
162.0	31.10	20.73	15.55	12.44	10.37	8.88	7.77	6.91	6.22	5.65	5.18	4.78	4.44	4.15	3.89
168.0	27.88	18.59	13.94	11.15	9.29	7.97	6.97	6.20	5.58	5.07	4.65	4.29	3.98	3.72	3.49
174.0	25.10	16.73	12.55	10.04	8.37	7.17	6.27	5.58	5.02	4.56	4.18	3.86	3.59	3.35	3.14
180.0	22.67	15.11	11.33	9.07	7.56	6.48	5.67	5.04	4.53	4.12	3.78	3.49	3.24	3.02	2.83
186.0	20.55	13.70	10.27	8.22	6.85	5.87	5.14	4.57	4.11	3.74	3.42	3.16	2.94	2.74	2.57
192.0	18.68	12.45	9.34	7.47	6.23	5.34	4.67	4.15	3.74	3.40	3.11	2.87	2.67	2.49	2.33



1" X 5 3/16" MULLION



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

NOTE:

- 1) MULLION CHART APPLIES TO 1" 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 SECTION 8.
- 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.



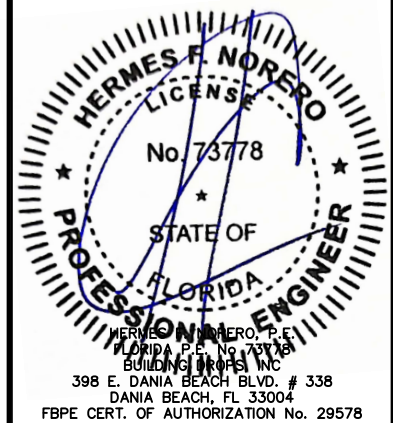
100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (NON-HVHZ)(NON-IMPACT)
 1" X 5 3/16" MULLION LOADS TABLE - TWO WAY

PREPARED BY: BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
 PH: (954) 399-8478
 FAX: (954) 744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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 #: **FL25570**

DATE: **10.02.17**

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

SCALE: **NTS**

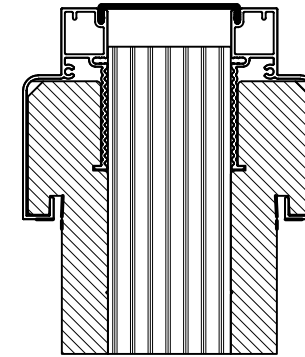
DWG. #: **AWD229**

SECTION **9.7**

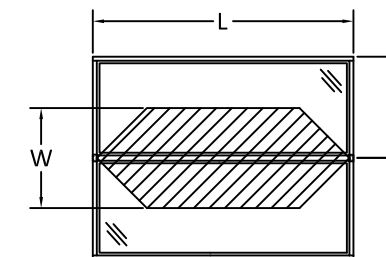
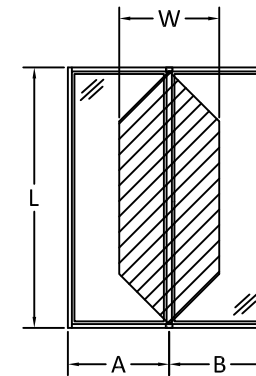
[PAGE 24 of 26]

**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	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	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
72.0	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
78.0	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
84.0	75.00	75.00	75.00	75.00	74.33	72.82	72.82	72.82	72.82	72.82	72.82	72.82	72.82	72.82	72.82
90.0	75.00	75.00	75.00	71.36	66.07	63.71	63.43	63.43	63.43	63.43	63.43	63.43	63.43	63.43	63.43
96.0	75.00	75.00	74.33	64.87	59.47	56.63	55.75	55.75	55.75	55.75	55.75	55.75	55.75	55.75	55.75
102.0	75.00	75.00	68.62	59.47	54.06	50.97	49.56	49.38	49.38	49.38	49.38	49.38	49.38	49.38	49.38
108.0	75.00	75.00	63.71	54.89	49.56	46.34	44.60	44.05	44.05	44.05	44.05	44.05	44.05	44.05	44.05
114.0	75.00	74.33	59.47	50.97	45.74	42.48	40.55	39.64	39.53	39.53	39.53	39.53	39.53	39.53	39.53
120.0	75.00	69.96	55.75	47.57	41.95	38.05	35.65	34.33	33.88	33.88	33.88	33.88	33.88	33.88	33.88
126.0	75.00	64.54	49.69	41.12	35.72	32.22	29.96	28.61	27.97	27.87	27.87	27.87	27.87	27.87	27.87
132.0	75.00	55.96	42.99	35.46	30.69	27.54	25.46	24.13	23.40	23.14	23.14	23.14	23.14	23.14	23.14
138.0	72.10	48.84	37.45	30.81	26.58	23.75	21.83	20.57	19.80	19.43	19.37	19.37	19.37	19.37	19.37
144.0	63.39	42.89	32.83	26.95	23.18	20.63	18.88	17.70	16.93	16.49	16.34	16.34	16.34	16.34	16.34
150.0	56.03	37.87	28.94	23.71	20.34	18.05	16.46	15.35	14.60	14.14	13.91	13.88	13.88	13.88	13.88
156.0	49.77	33.60	25.64	20.97	17.95	15.89	14.44	13.41	12.69	12.23	11.96	11.86	11.86	11.86	11.86
162.0	44.41	29.96	22.83	18.64	15.93	14.06	12.74	11.79	11.12	10.65	10.37	10.22	10.20	10.20	10.20
168.0	39.80	26.82	20.42	16.65	14.20	12.51	11.30	10.43	9.80	9.35	9.05	8.88	8.82	8.82	8.82
174.0	35.80	24.11	18.34	14.93	12.72	11.18	10.08	9.27	8.68	8.25	7.96	7.77	7.68	7.66	7.66
180.0	32.32	21.75	16.53	13.45	11.43	10.04	9.03	8.29	7.74	7.33	7.04	6.85	6.73	6.69	6.69
186.0	29.28	19.69	14.95	12.15	10.32	9.04	8.12	7.44	6.92	6.54	6.26	6.07	5.94	5.88	5.87
192.0	26.61	17.89	13.57	11.02	9.35	8.18	7.33	6.70	6.23	5.87	5.60	5.41	5.28	5.20	5.17



2" X 5 3/16" MULLION



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

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.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SECTION 8.
- 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.



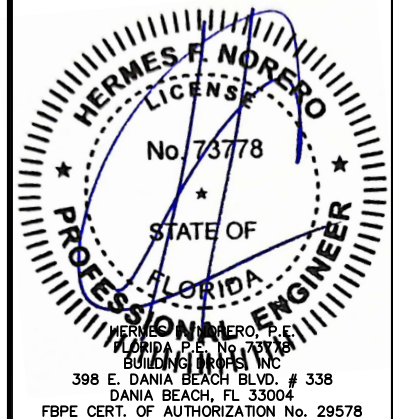
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (NON-HVHZ)(NON-IMPACT)
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) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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 #: **FL25570**

DATE: **10.02.17**

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

SCALE: **NTS**

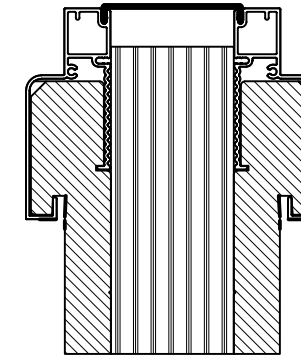
DWG. #: **AWD229**

SECTION **9.8**

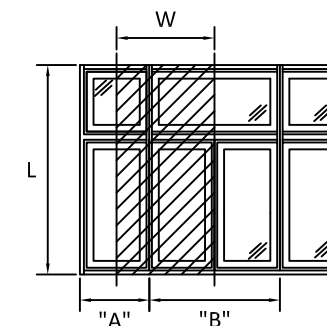
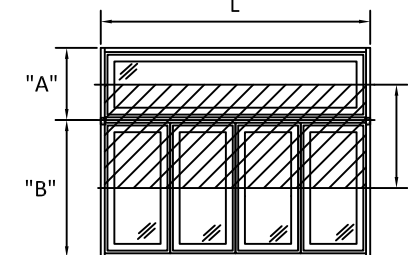
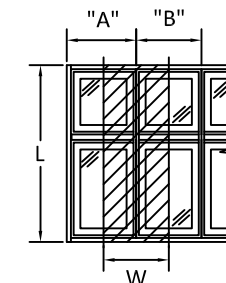
[PAGE 25 of 26]

**MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION**

L - Mull Length	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	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	54.06	46.34	40.55	36.04	32.44	29.49	27.03	24.95	23.17	21.62	20.27
72.0	60.00	60.00	60.00	59.47	49.56	42.48	37.17	33.04	29.73	27.03	24.78	22.87	21.24	19.82	18.58
78.0	60.00	60.00	60.00	54.89	45.74	39.21	34.31	30.50	27.45	24.95	22.87	21.11	19.60	18.30	17.15
84.0	60.00	60.00	60.00	50.97	42.48	36.41	31.86	28.32	25.49	23.17	21.24	19.60	18.20	16.99	15.93
90.0	60.00	60.00	59.47	47.57	39.64	33.98	29.73	26.43	23.79	21.62	19.82	18.30	16.99	15.86	14.87
96.0	60.00	60.00	55.75	44.60	37.17	31.86	27.88	24.78	22.30	20.27	18.58	17.15	15.93	14.87	13.94
102.0	60.00	60.00	52.47	41.98	34.98	29.98	26.24	23.32	20.99	19.08	17.49	16.14	14.99	13.99	13.12
108.0	60.00	60.00	49.56	39.64	33.04	28.32	24.78	22.02	19.82	18.02	16.52	15.25	14.16	13.21	12.39
114.0	60.00	60.00	46.95	37.56	31.30	26.83	23.47	20.87	18.78	17.07	15.65	14.45	13.41	12.52	11.74
120.0	60.00	59.47	44.60	35.68	29.73	25.49	22.30	19.82	17.84	16.22	14.87	13.72	12.74	11.89	11.15
126.0	60.00	56.63	42.48	33.98	28.32	24.27	21.24	18.88	16.99	15.45	14.16	13.07	12.14	11.33	10.62
132.0	60.00	54.06	40.55	32.44	27.03	23.17	20.27	18.02	16.22	14.74	13.52	12.48	11.58	10.81	10.14
138.0	60.00	47.52	35.64	28.51	23.76	20.37	17.82	15.84	14.26	12.96	11.88	10.97	10.18	9.50	8.91
144.0	60.00	41.83	31.37	25.10	20.91	17.93	15.69	13.94	12.55	11.41	10.46	9.65	8.96	8.37	7.84
150.0	55.51	37.01	27.76	22.20	18.50	15.86	13.88	12.34	11.10	10.09	9.25	8.54	7.93	7.40	6.94
156.0	49.35	32.90	24.67	19.74	16.45	14.10	12.34	10.97	9.87	8.97	8.22	7.59	7.05	6.58	6.17
162.0	44.07	29.38	22.03	17.63	14.69	12.59	11.02	9.79	8.81	8.01	7.34	6.78	6.30	5.88	5.51
168.0	39.51	26.34	19.76	15.80	13.17	11.29	9.88	8.78	7.90	7.18	6.59	6.08	5.64	5.27	4.94
174.0	35.56	23.71	17.78	14.23	11.85	10.16	8.89	7.90	7.11	6.47	5.93	5.47	5.08	4.74	4.45
180.0	32.12	21.42	16.06	12.85	10.71	9.18	8.03	7.14	6.42	5.84	5.35	4.94	4.59	4.28	4.02
186.0	29.11	19.41	14.56	11.65	9.70	8.32	7.28	6.47	5.82	5.29	4.85	4.48	4.16	3.88	3.64
192.0	26.47	17.65	13.23	10.59	8.82	7.56	6.62	5.88	5.29	4.81	4.41	4.07	3.78	3.53	3.31



2" X 5 3/16" MULLION



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

NOTE:

- 1) MULLION CHART APPLIES TO 2" 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 SECTION 8.
- 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.



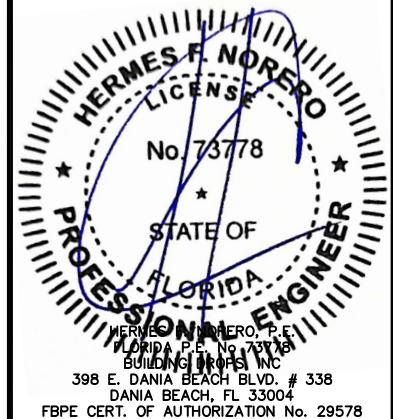
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (NON-HVHZ)(NON-IMPACT)
2" X 5 3/16" MULLION LOADS TABLE - TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.27.22
2023 FBC CODE CHANGE	MS	5/11/23

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 #: **FL25570**

DATE: **10.02.17**

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

SCALE: **NTS**

DWG. #: **AWD229**

SECTION

9.9

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