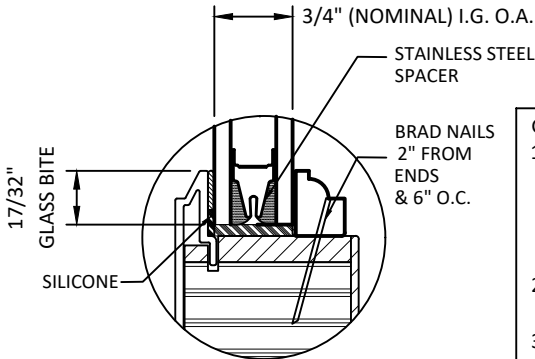


ANDERSEN CORPORATION

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

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/I.S.2/A440-08/11
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. WINDOW 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.

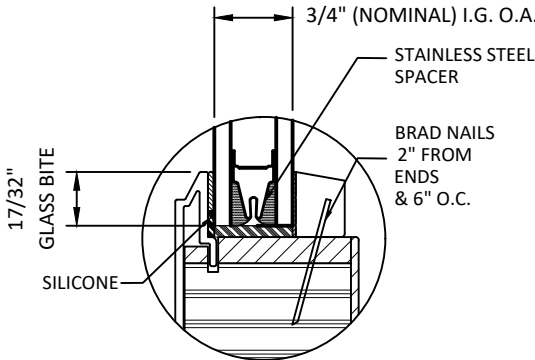


GLAZING DETAIL - G1
SHOWN WITH COLONIAL GLASS STOP

GLAZING 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



GLAZING DETAIL - G2
SHOWN WITH CONTEMPORARY GLASS STOP

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



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TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
GENERAL NOTES & GLAZING DETAIL

PREPARED BY:
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REMARKS	BY	DATE
TEST STANDARDS UPDATE	HR	7.2.18
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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FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL25570

DATE:

10.02.17

DWG. BY:

RV

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

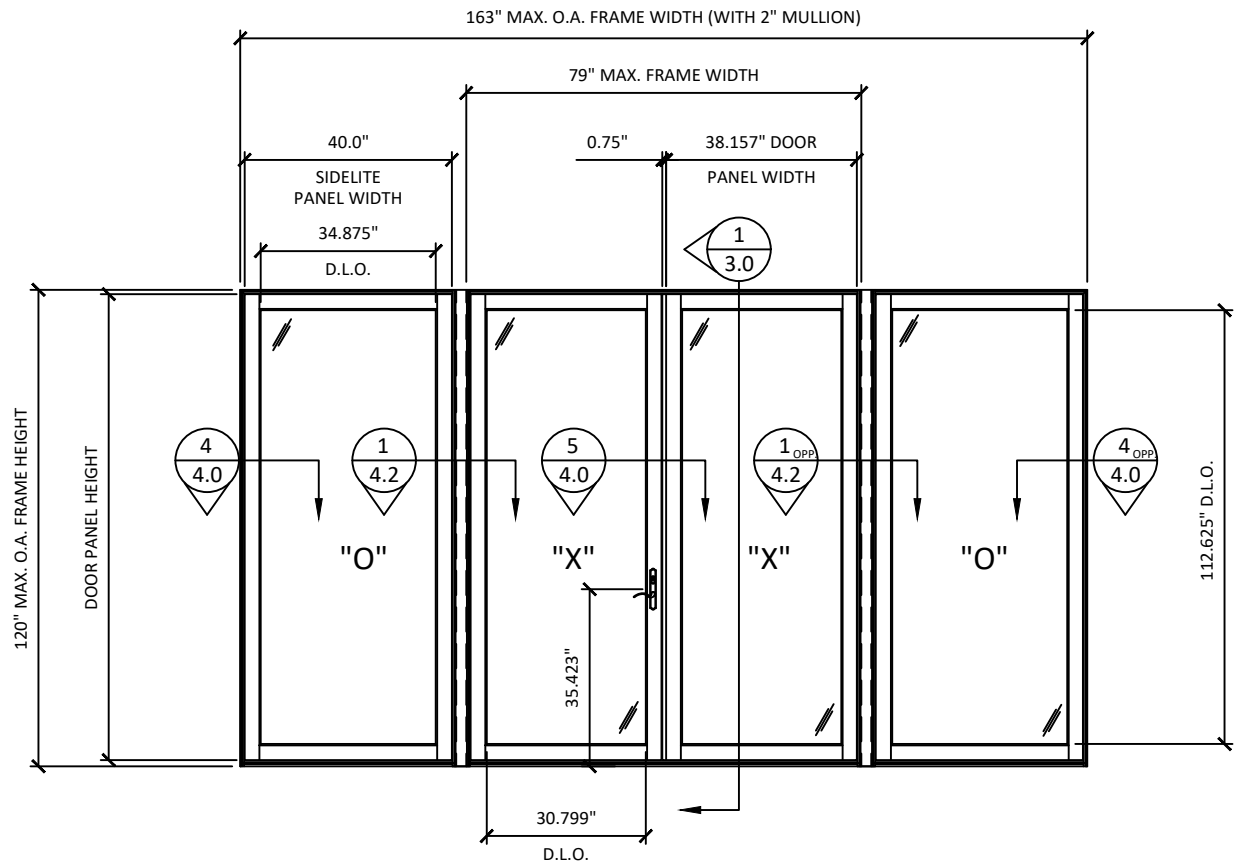
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SECTION

1.0

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ELEVATION
INSWING DOOR WITH 2" MULLION

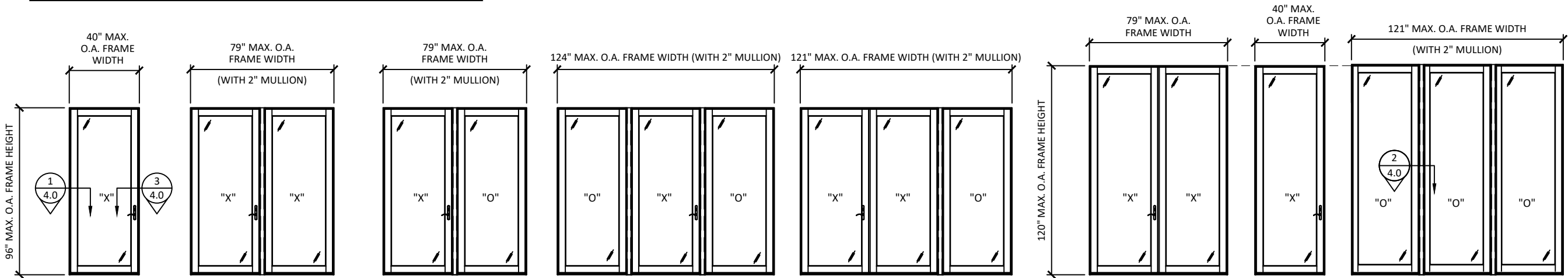
CONFIGURATION	WIDTH	HEIGHT	PANEL TYPE	PG RATING	DESIGN PRESSURE	PASSIVE LOCK
X	40.0	96.0	Radius	PG 45	+45/-55	N/A
X	40.0	102.0	SP1, SP2, SP4, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 45	+45 / -65	N/A
X	40.0	120.0	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2	PG 45	+45 / -65	N/A
X	40.5	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.

OTHER QUALIFIED CONFIGURATIONS



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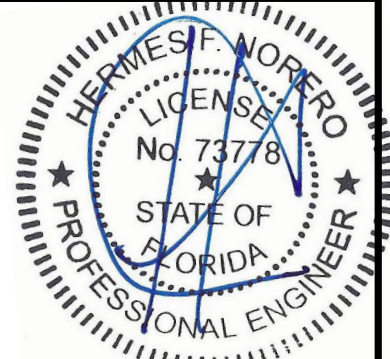
TITLE:
**E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
ELEVATIONS & CONFIGURATIONS**

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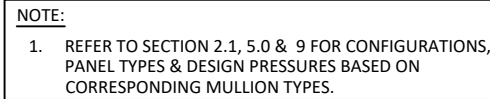
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1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19

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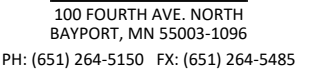
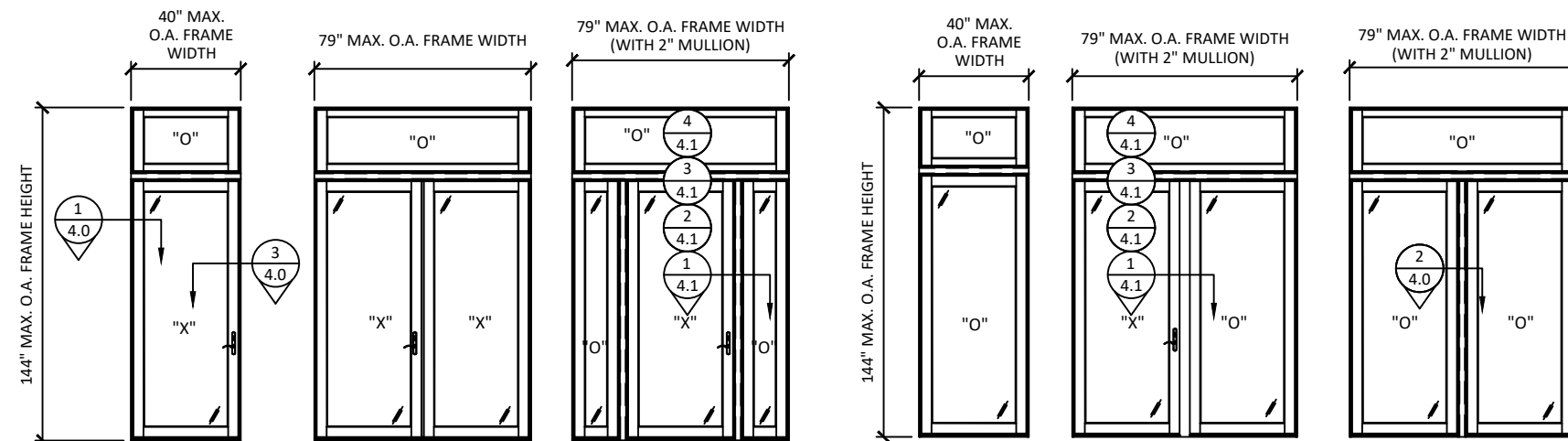
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD229
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ELEVATION

INSWING DOOR WITH TRANSOM & 2" MULLION

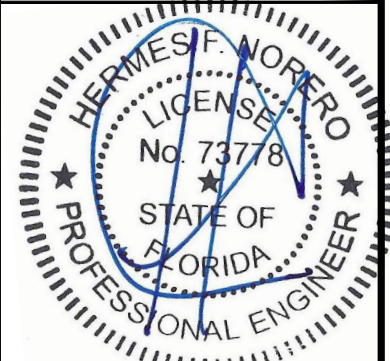
OTHER QUALIFIED CONFIGURATIONS



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FL #: **FL25570**

DATE: 10.02.17

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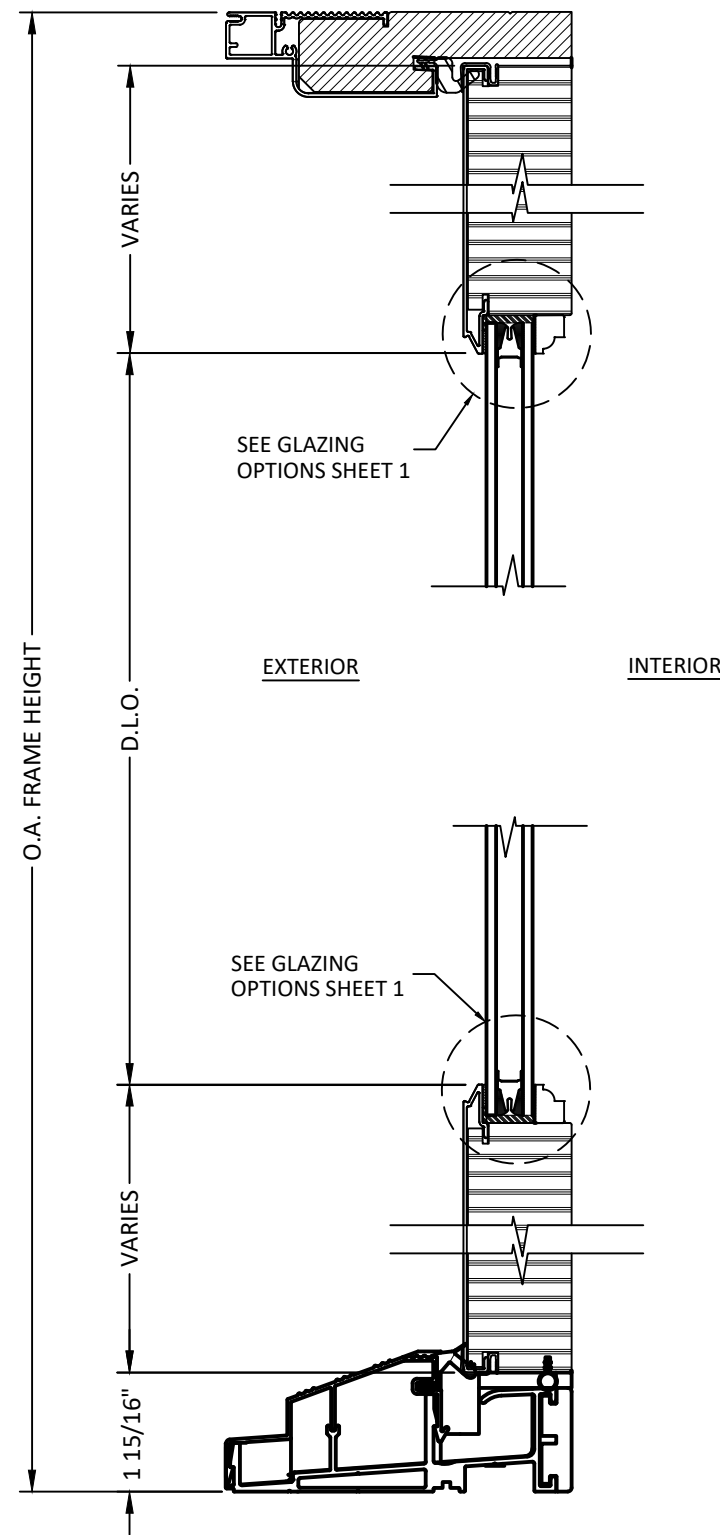
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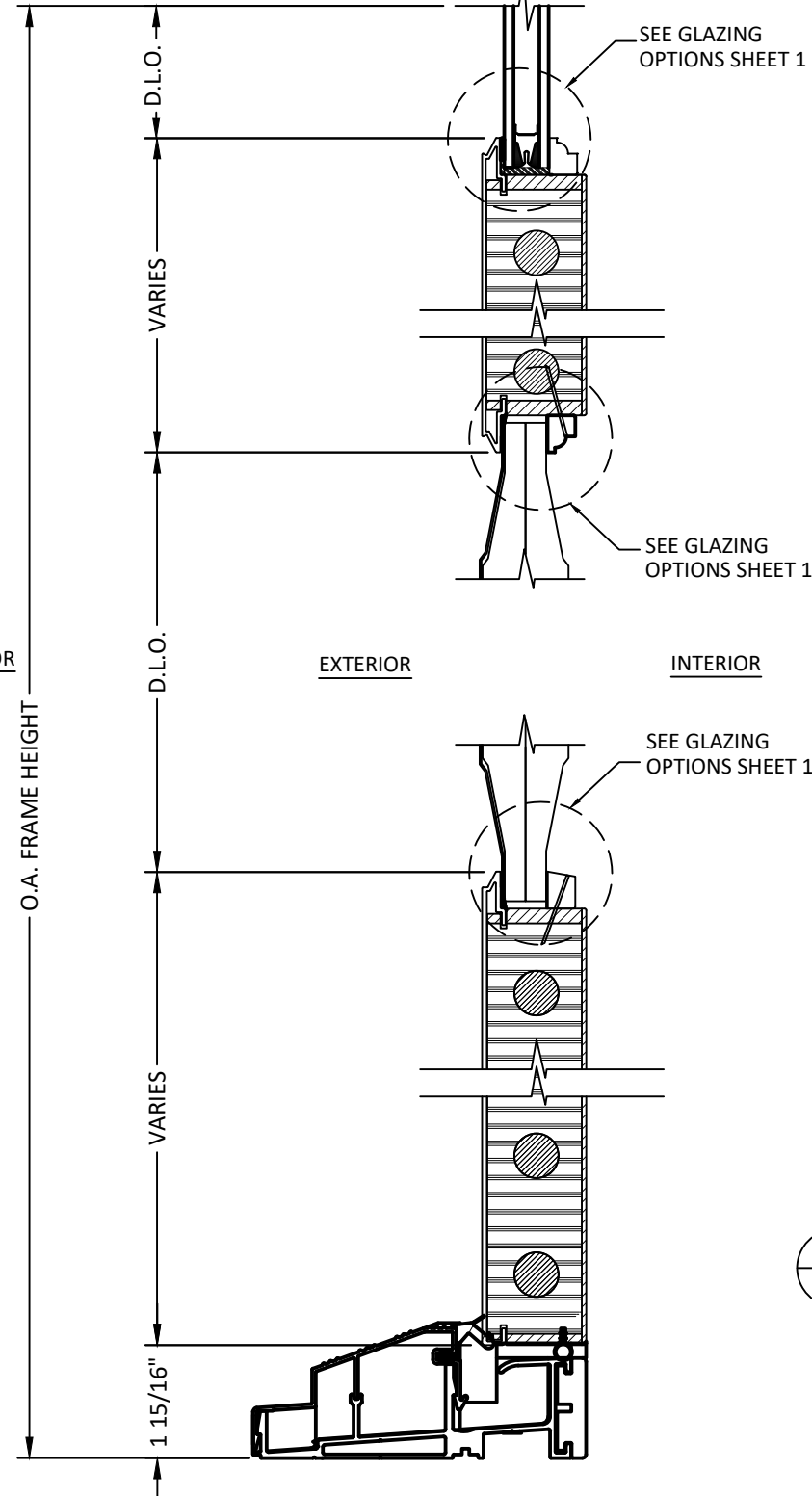
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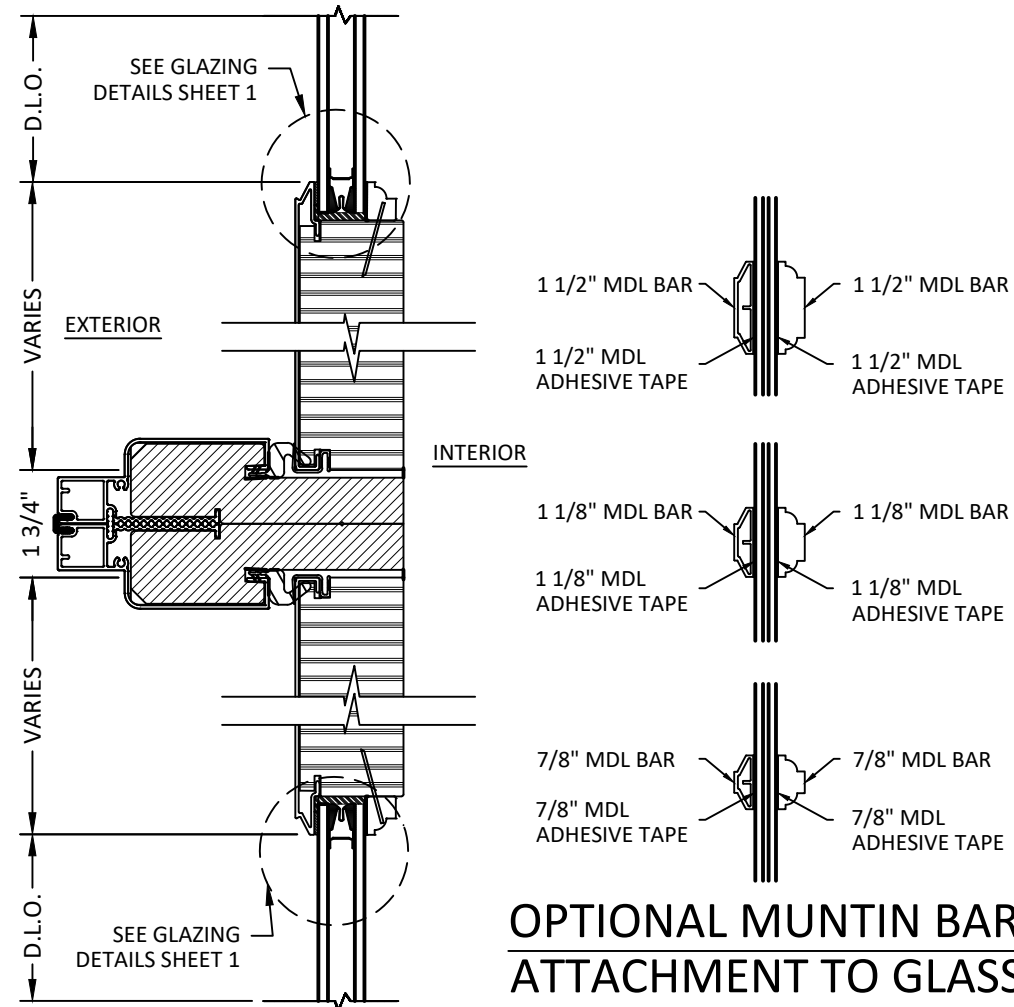
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1
3.0 VERTICAL SECTION
FULL GLAZED PANEL



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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TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
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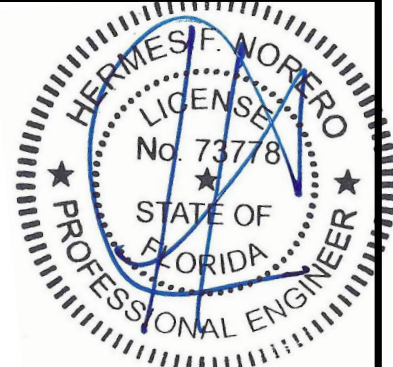
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FL #:
FL25570

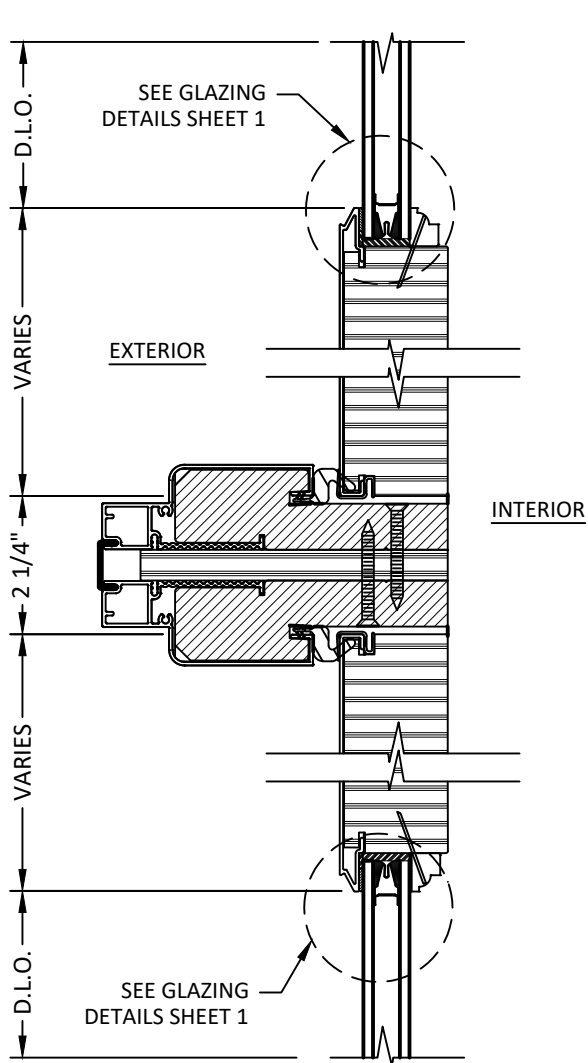
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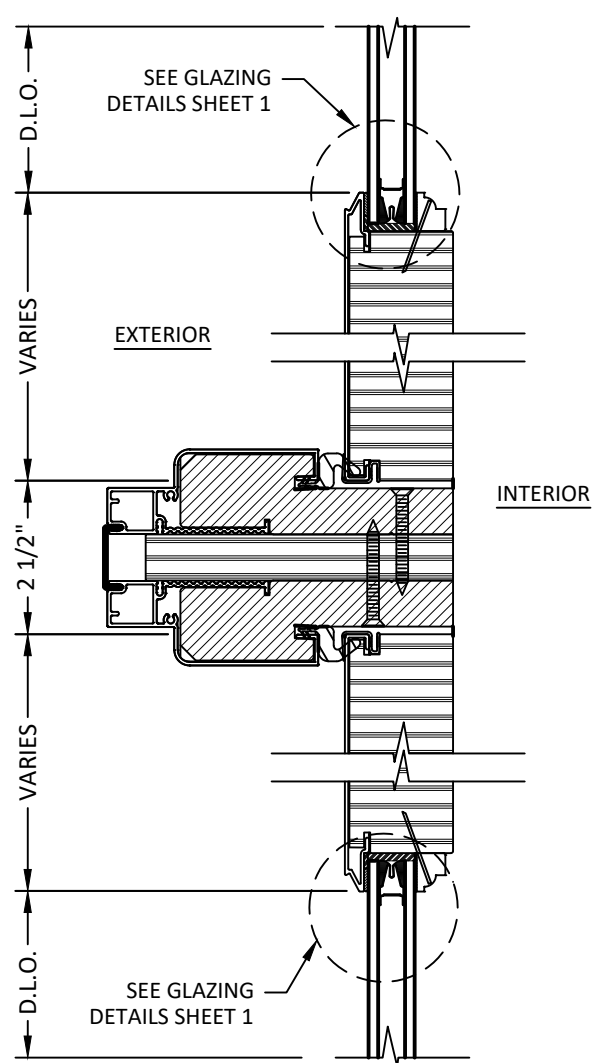
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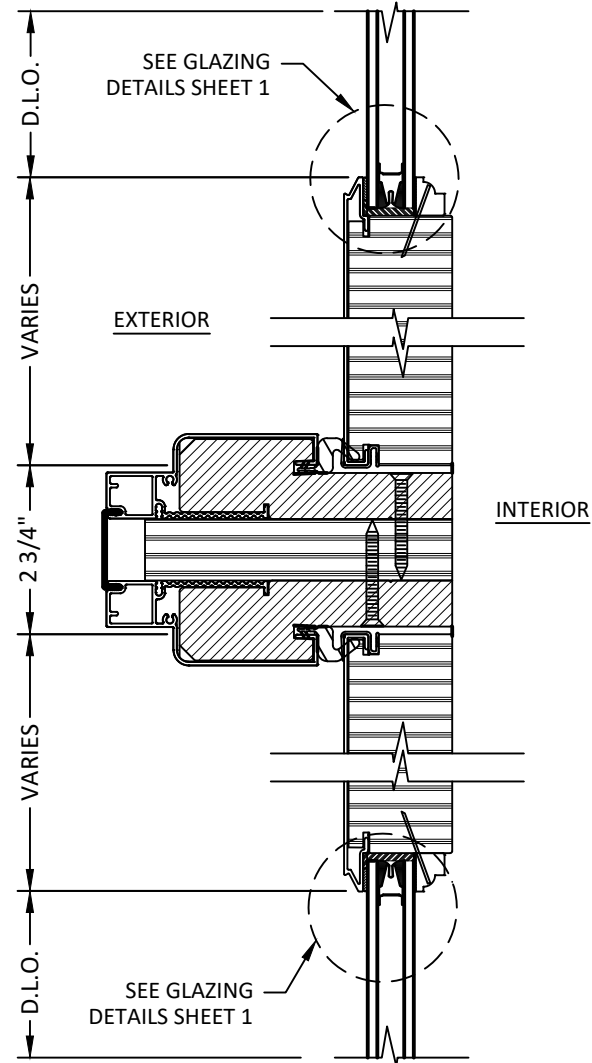
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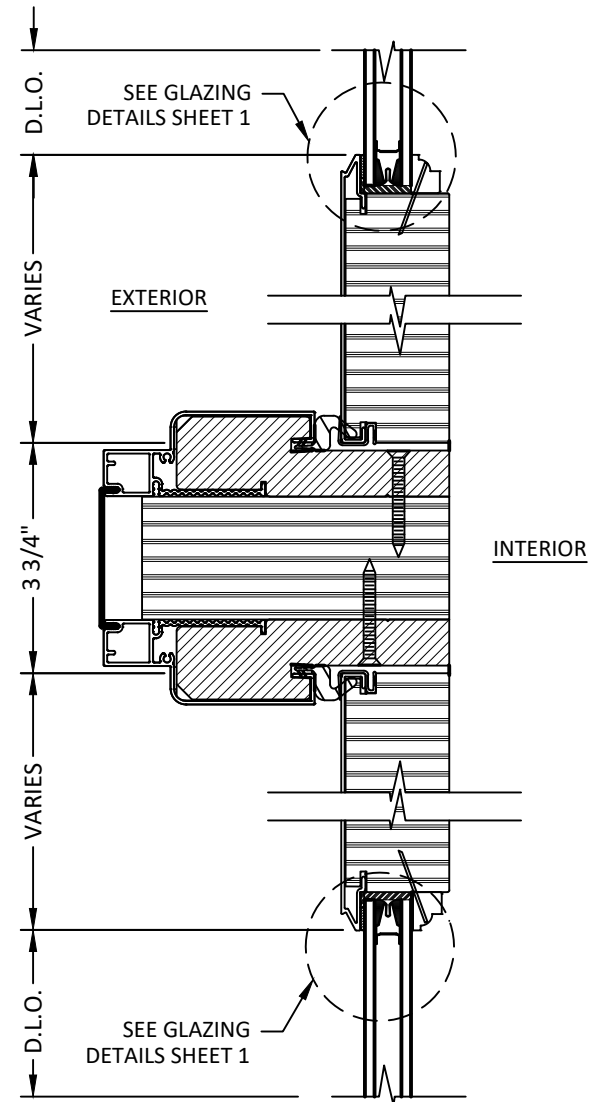
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3.1 **VERTICAL SECTION**
INSULATED GLASS
1/2" X 5-3/16" MULLION



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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TITLE:
**E-SERIES HINGED PATIO
DOOR - INSWING
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VERTICAL SECTIONS**

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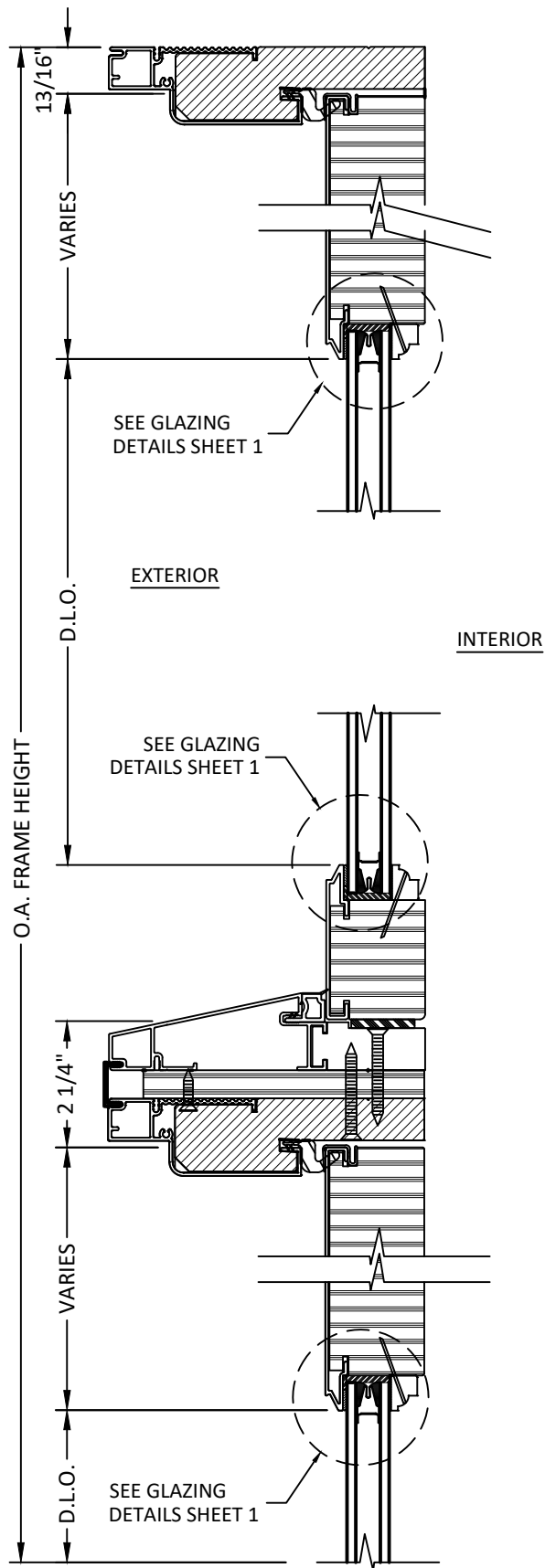
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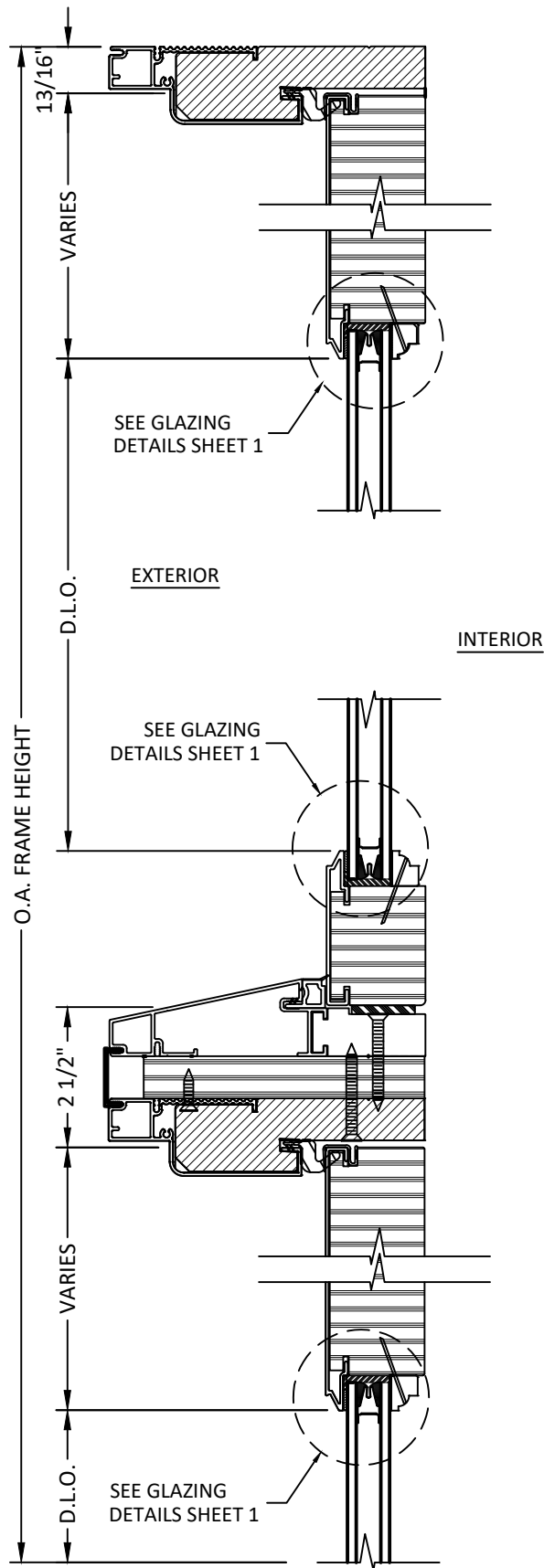
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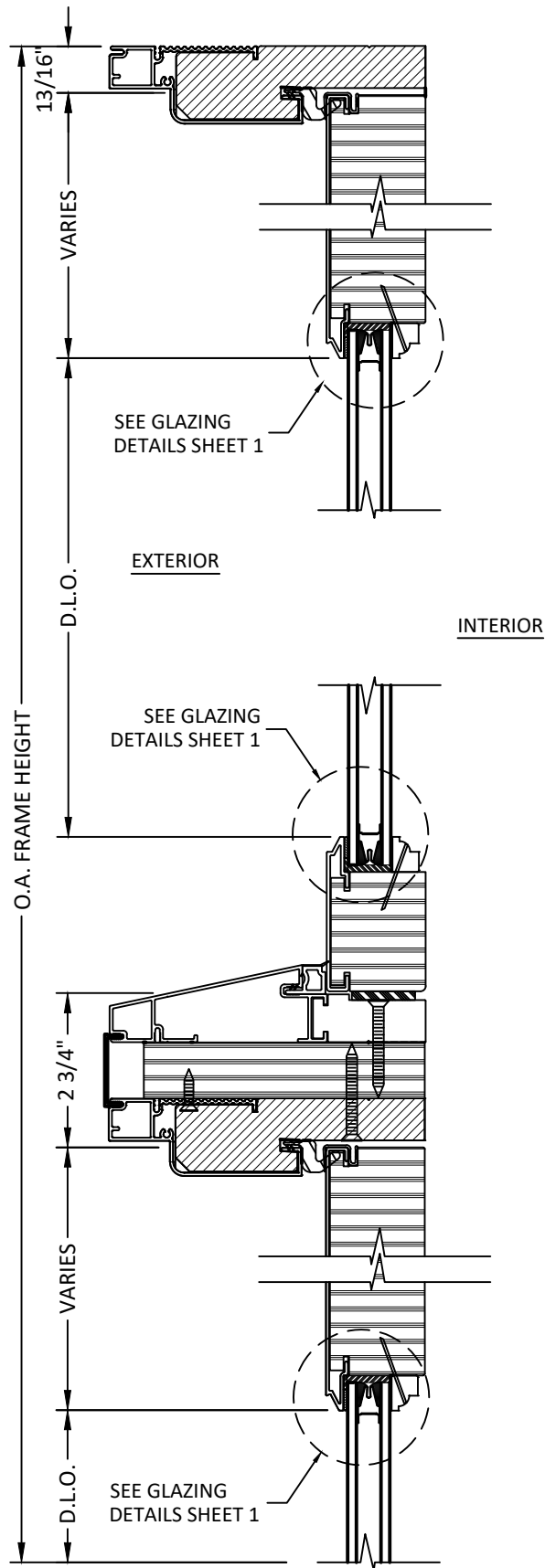
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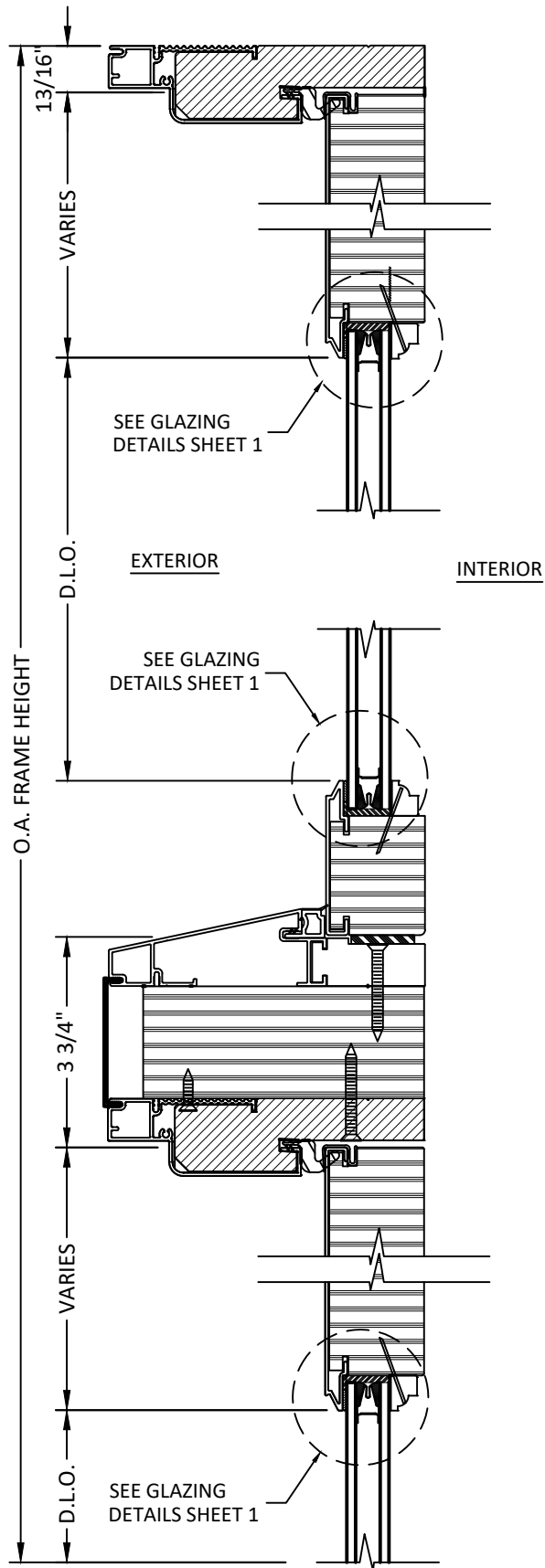
1
3.2 **VERTICAL SECTION**
TRANSOM
1/2" X 5 3/16" LVL MULLION



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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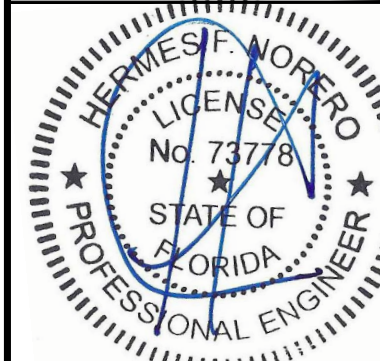
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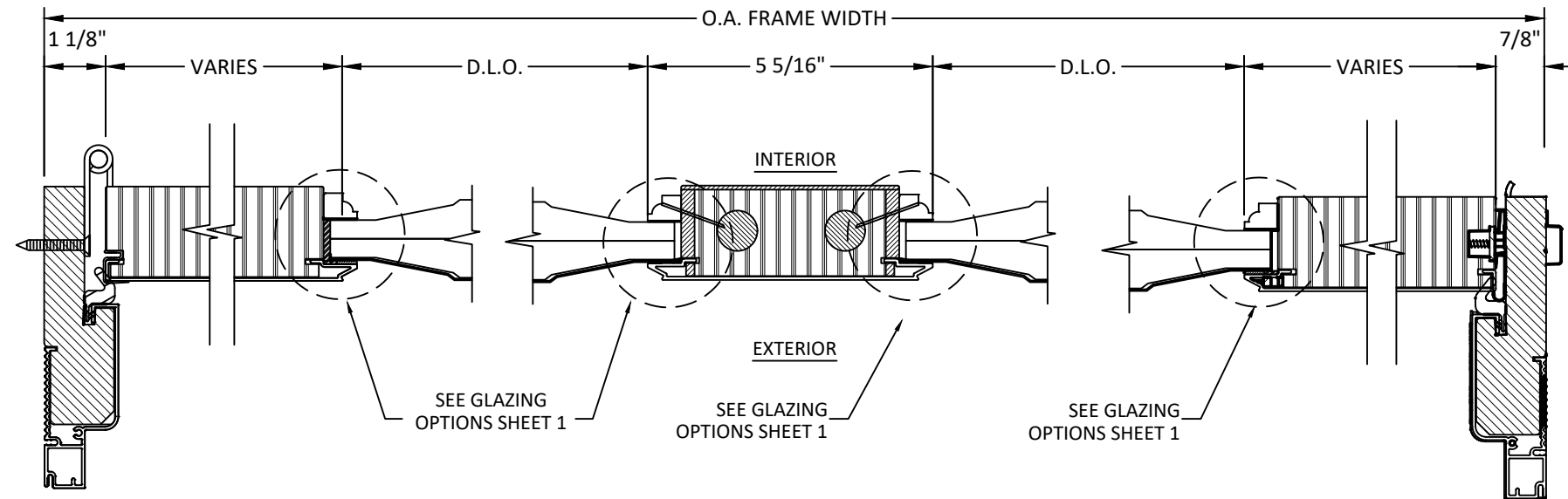


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DWG. BY:	RV
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SCALE:	NTS
DWG. #:	AWD229

SECTION
3.2
Page 6 of 25

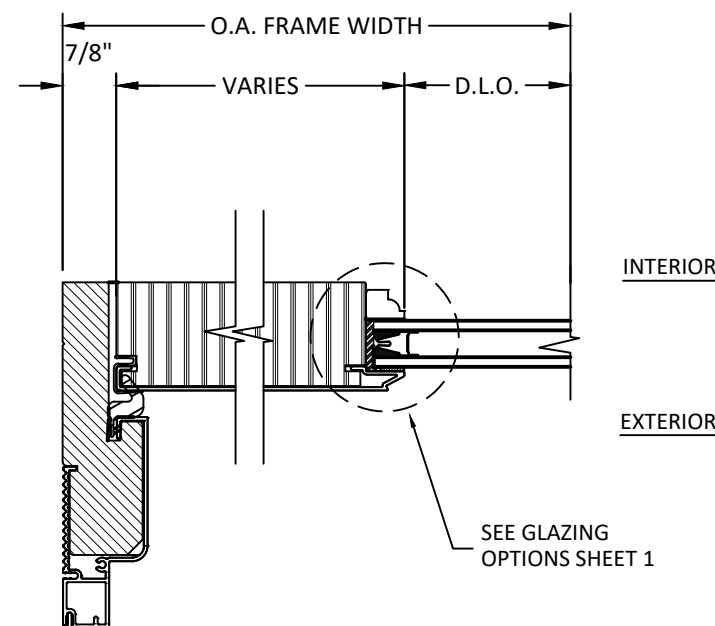
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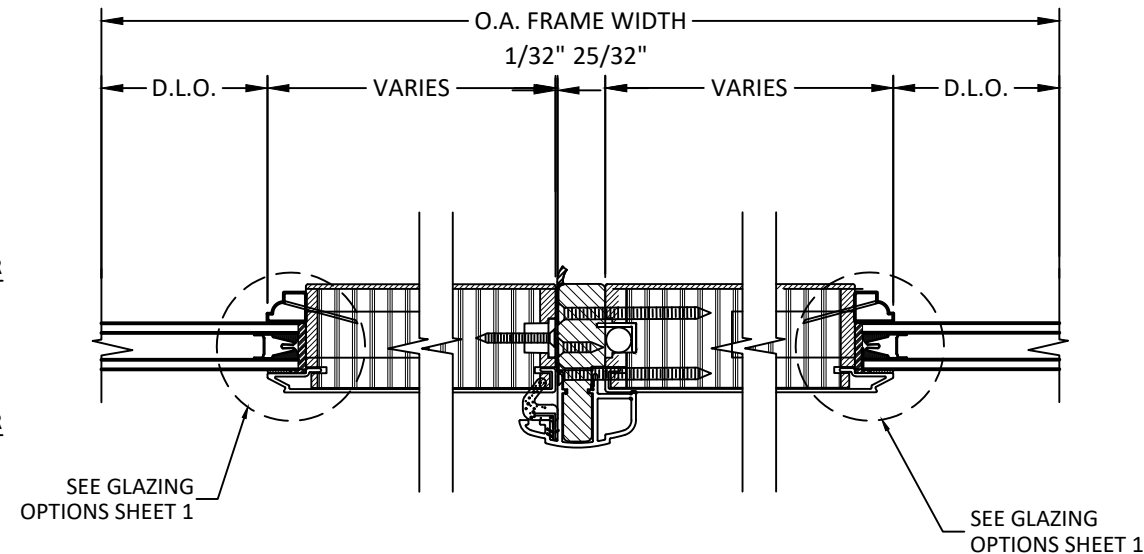
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4.0 HORIZONTAL SECTION
HINGE JAMB
WOOD PANEL INSERT

2
4.0 HORIZONTAL SECTION
MULLION
WOOD PANEL INSERT

3
4.0 HORIZONTAL SECTION
LOCK JAMB
WOOD PANEL INSERT



4
4.0 HORIZONTAL SECTION
SIDELITE JAMB



5
4.0 HORIZONTAL SECTION
ASTRAGAL



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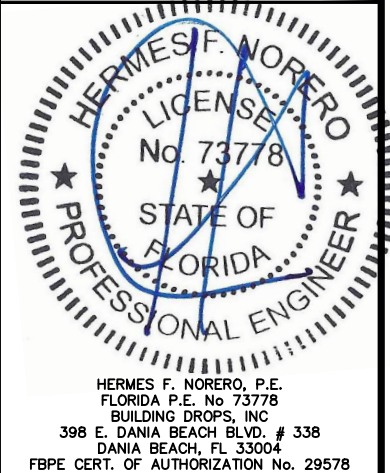
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E-SERIES HINGED PATIO
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HORIZONTAL SECTIONS

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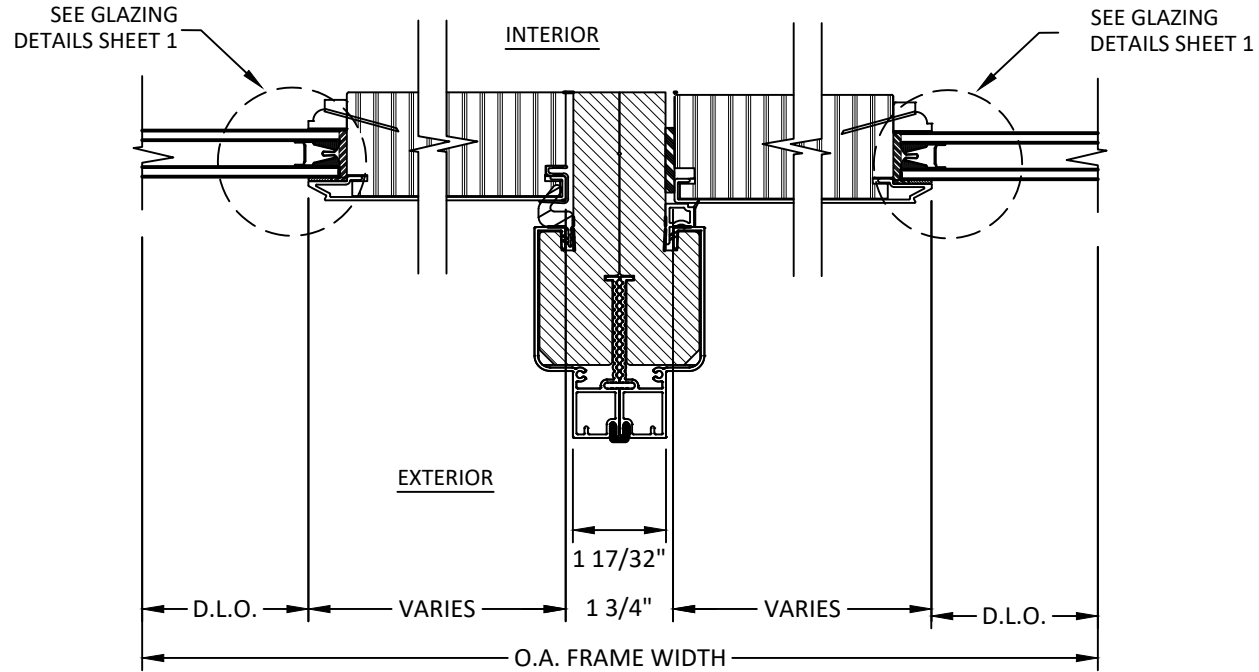
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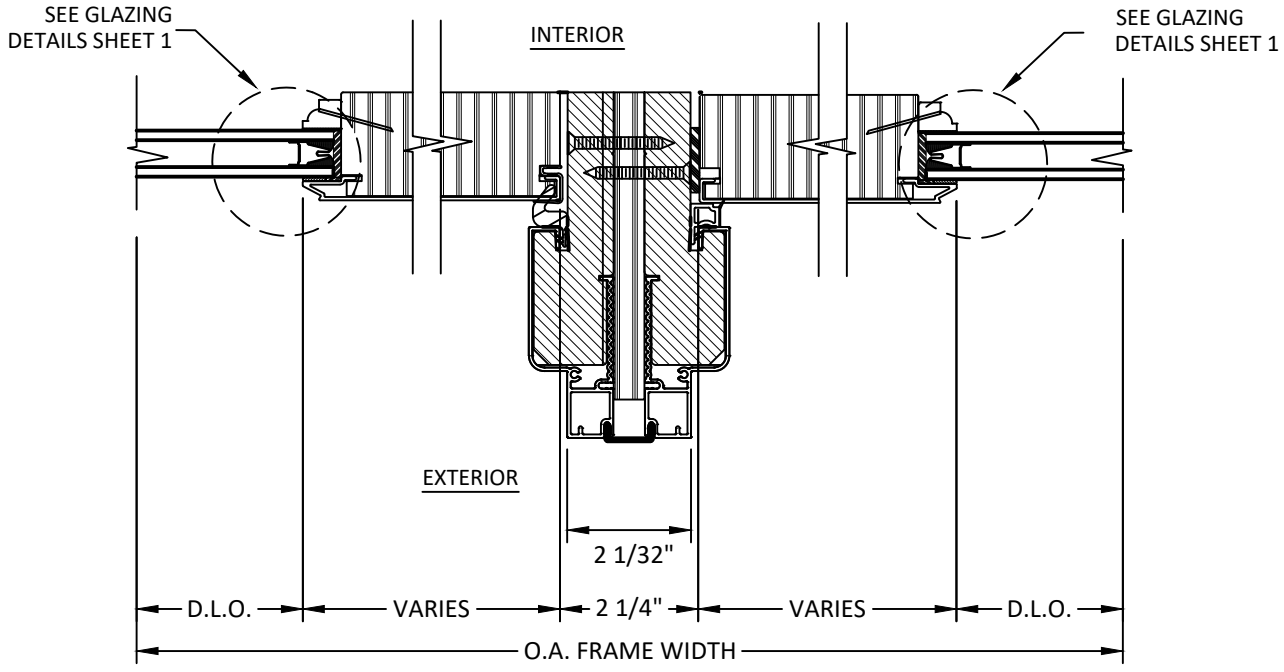


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

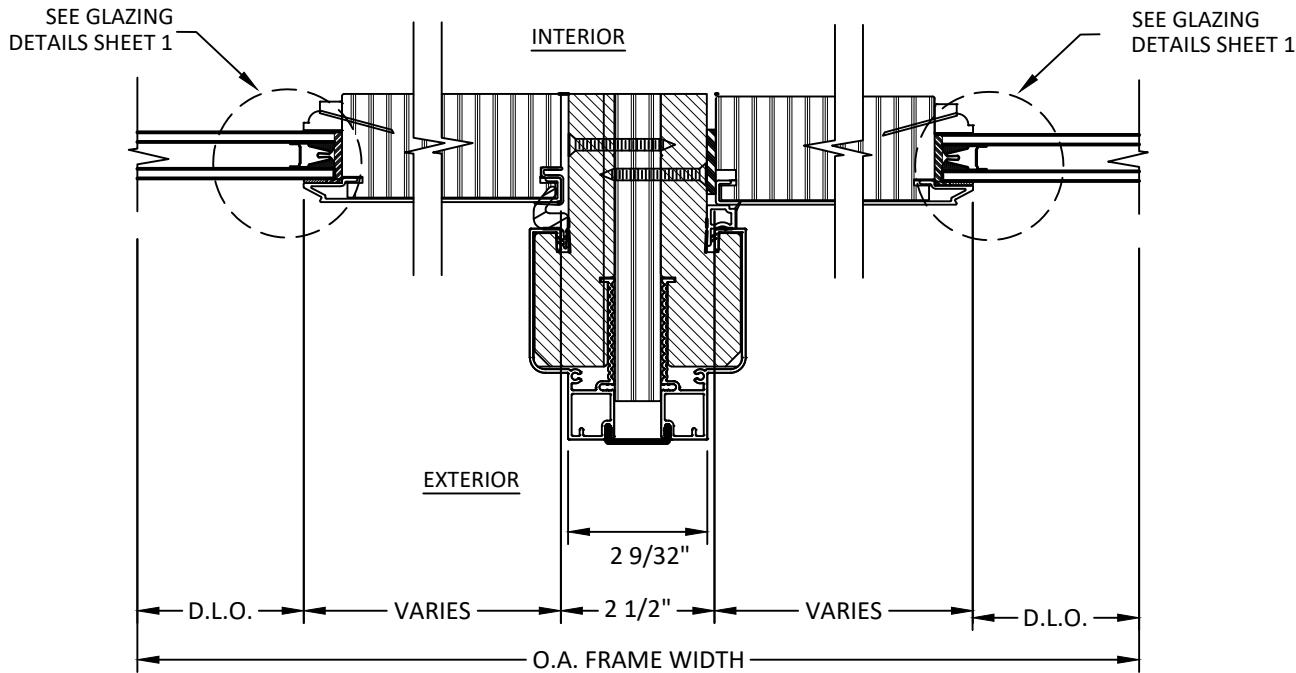
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DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
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DWG. #:	AWD229
SECTION	4.0



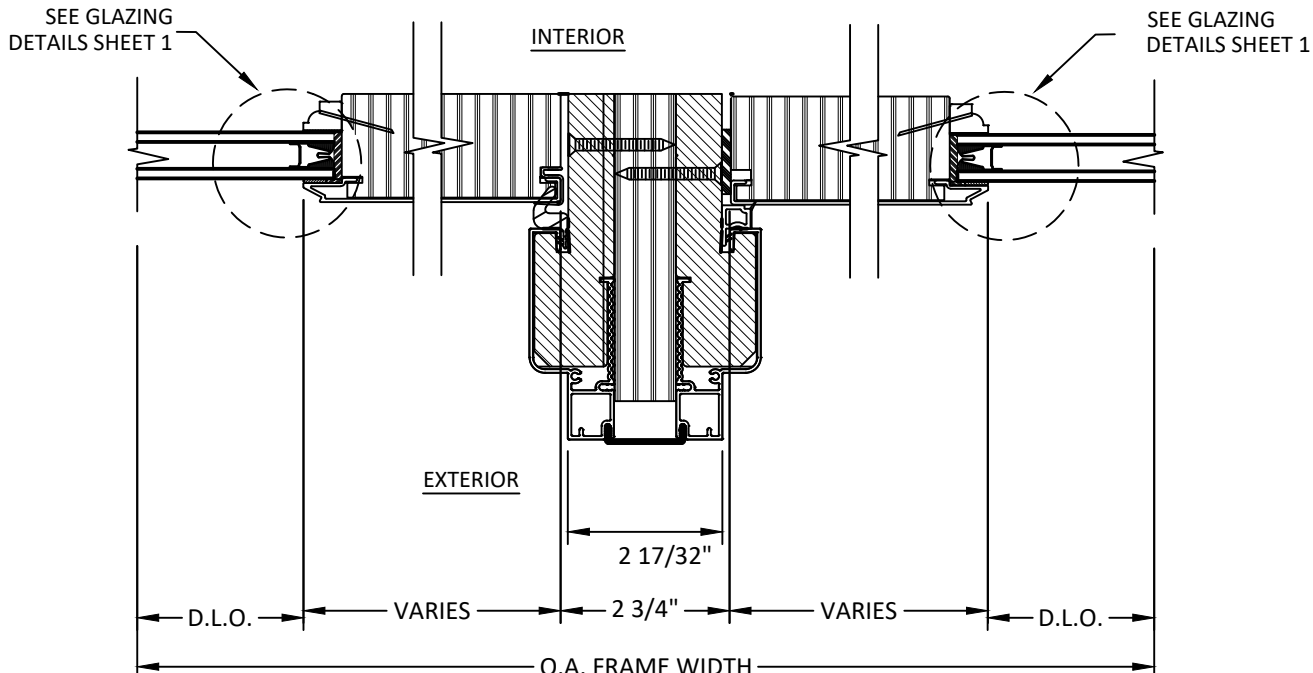
1 HORIZONTAL SECTION
4.1 ZERO MULLION
OPERABLE TO FIXED



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 - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19

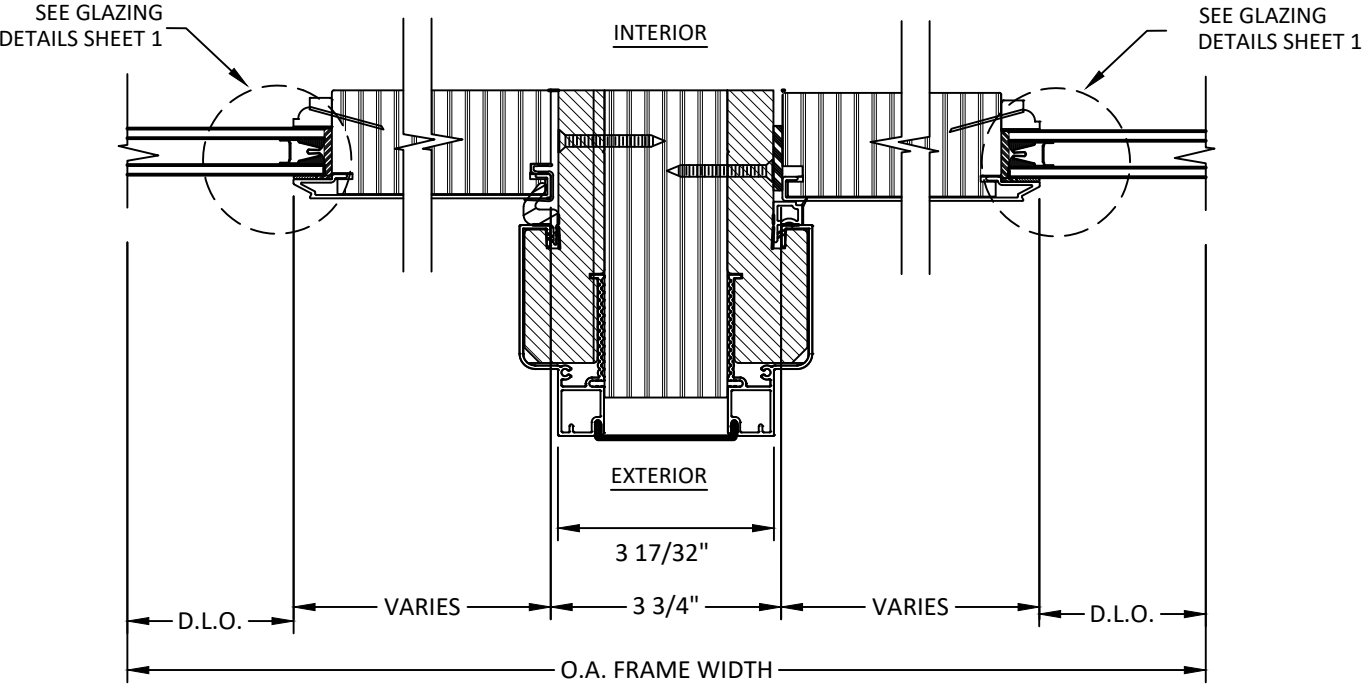
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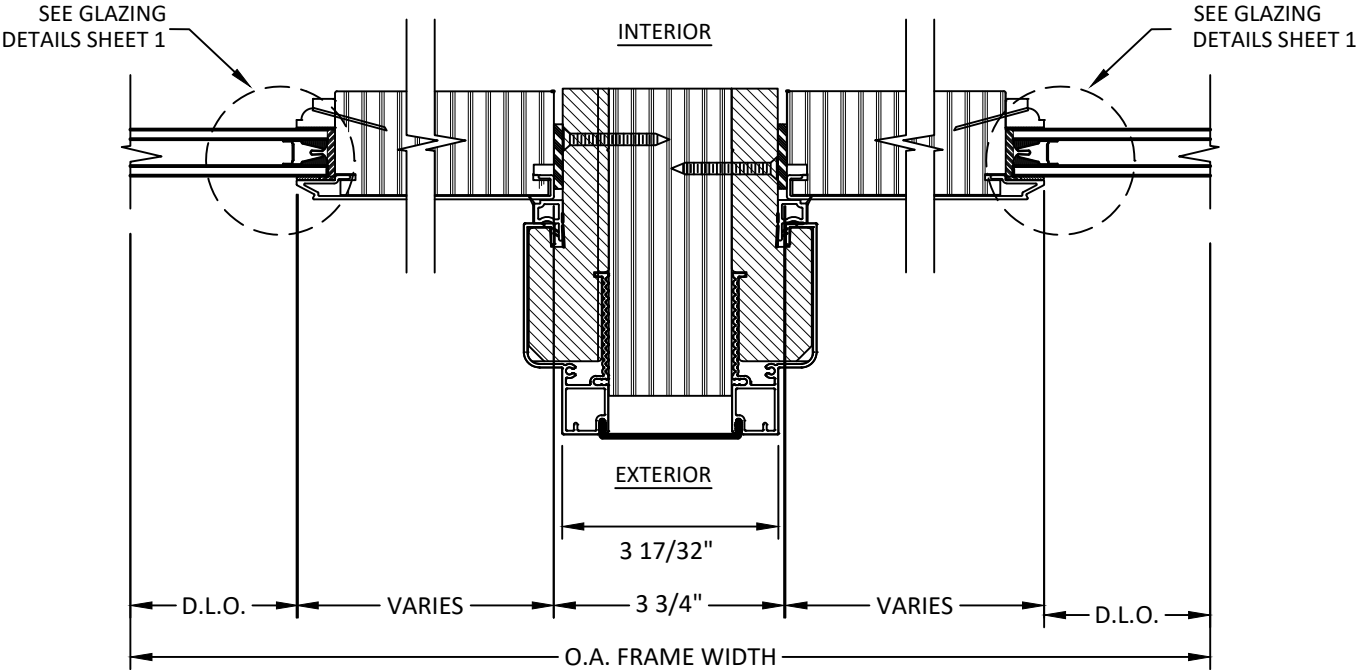
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SCALE:	NTS
DWG. #:	AWD229

SECTION
4.1
Page 8 of 25

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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



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BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

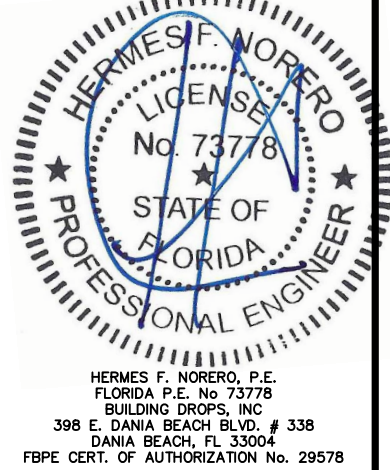
TITLE:
**E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)**
HORIZONTAL SECTIONS

PREPARED BY:

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SCALE:	NTS
DWG. #:	AWD229
SECTION	4.2 Page 9 of 25

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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

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

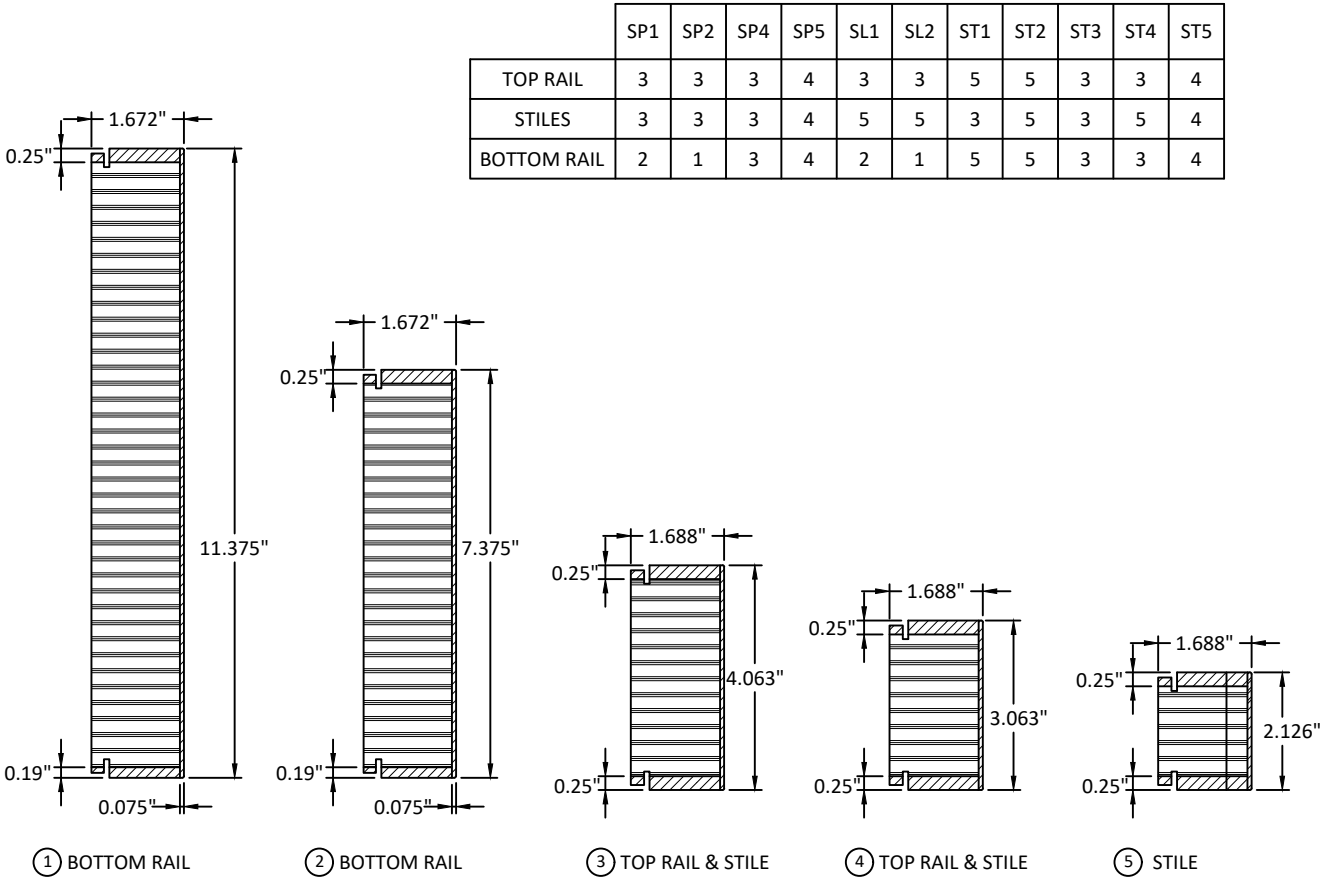
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MID-RAIL
12" BOTTOM RAIL &
4 11/16" TOP RAIL

SL2M2

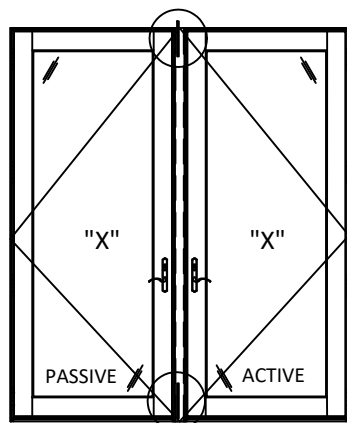
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MID-RAIL
12" BOTTOM RAIL &
4 11/16" TOP RAIL

SL2M3

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



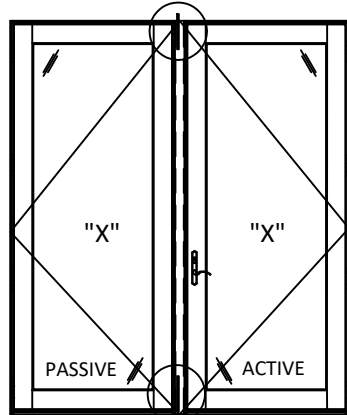
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OPTION 1 (AW HARDWARE)

ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 105MM LOCK TO HANDLE SPACING, 50 MM LOCK/HANDLE BACKSET.

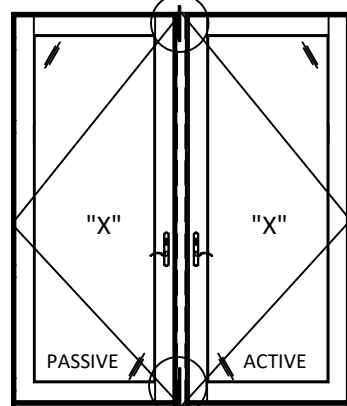
PASSIVE LEAF:
HANDLE OPERATED SHOOT BOLT THROUGH ASTRAGAL, LATCH AND DEADBOLT BLOKERS



OPTION 2 (TYPE I)

ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 92MM LOCK TO HANDLE SPACING, 45 MM LOCK/HANDLE BACKSET.

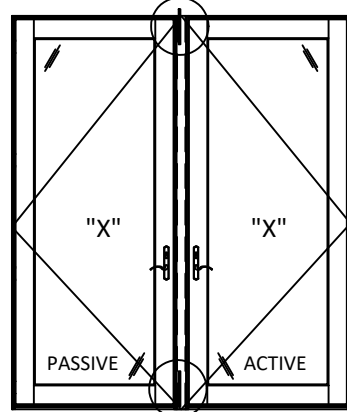
PASSIVE LEAF:
MANUALLY OPERATED MORTISE LEVER SHOOT BOLT THROUGH ASTRAGAL, NO HANDLE.



OPTION 3 (TYPE II)

ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 92MM LOCK TO HANDLE SPACING, 45 MM LOCK/HANDLE BACKSET.

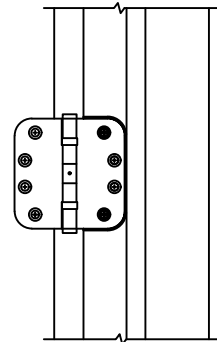
PASSIVE LEAF:
MANUALLY OPERATED MORTISE LEVER SHOOT BOLT THROUGH ASTRAGAL. DUMMY HANDLE



OPTION 4 (TYPE III)

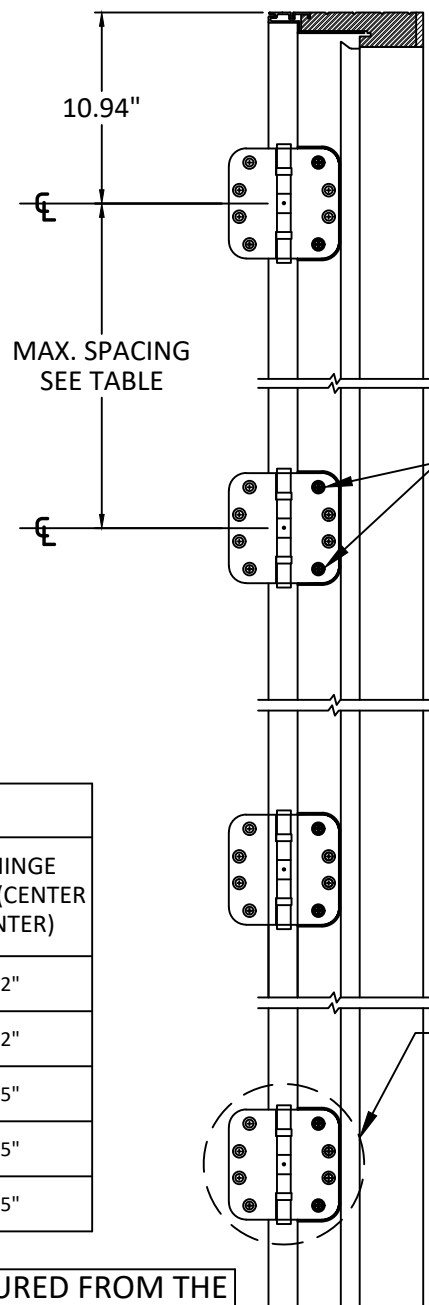
ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 92MM LOCK TO HANDLE SPACING, 45 MM LOCK/HANDLE BACKSET.

PASSIVE LEAF:
HANDLE OPERATED SHOOT BOLT THROUGH THE HANDLE, THUMB TURN LOCK LIMITED PERFORMANCE FOR OPTION 4



HINGE DETAIL

HINGE LOCATIONS USE #12 SCREW TYP.



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"	14.875"	36.875"	67.469"	N/A
84.5"	84"			79.675"	
96.5"	96"				
102.5"	102"				
120.5"	120"			67.469"	108.375"

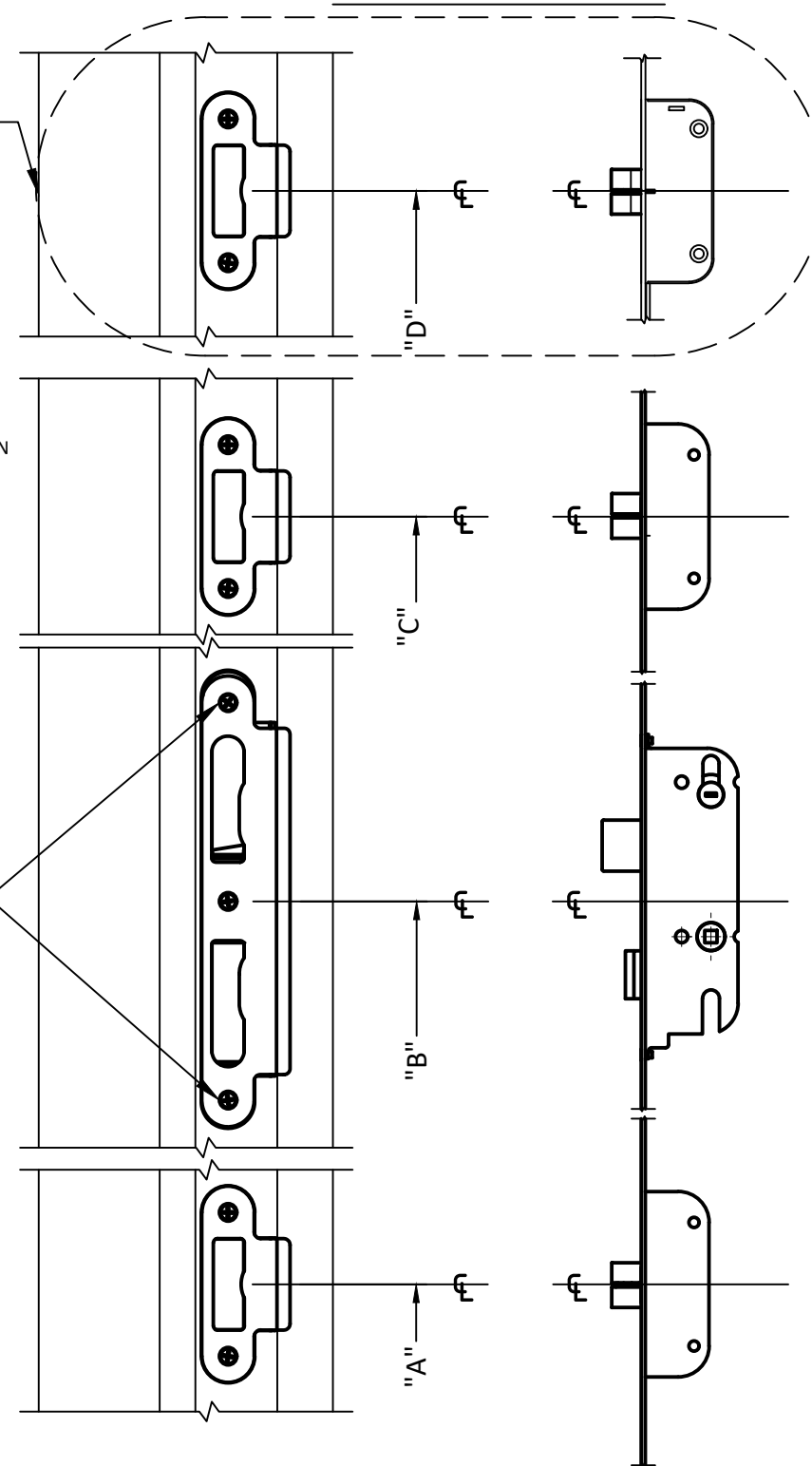
TO BE USED WITH 4-PT LOCK SYSTEM ACTIVE SINGLE & DOUBLE DOOR 102" AND ABOVE

(2) INSTALLATION ANCHORS. SEE TABLE IN SECTION 8

SEE ANCHOR TABLE SECTION 8

TO BE USED WITH DOORS 96" AND ABOVE

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

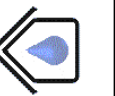


100 FOURTH AVE. NORTH
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TITLE: E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
HARDWARE LOCATIONS

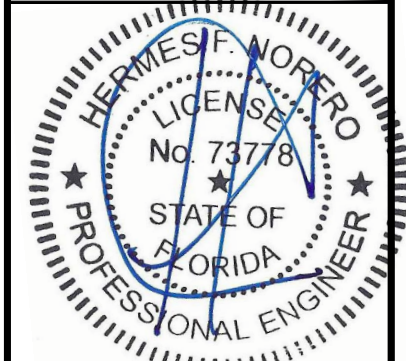
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004

PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
TEST STANDARDS UPDATE	HR	7.2.18
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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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL25570

DATE: 10.02.17

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

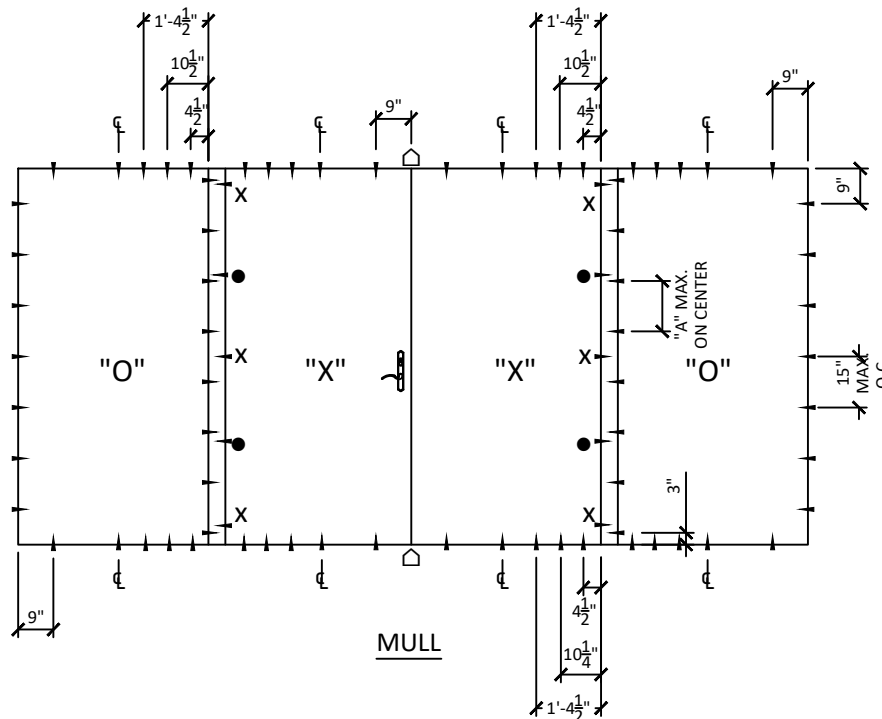
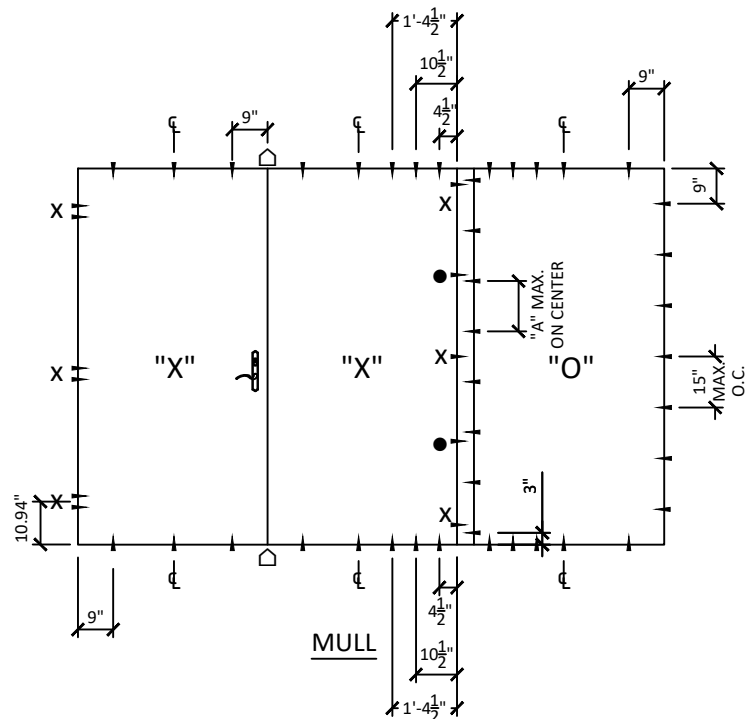
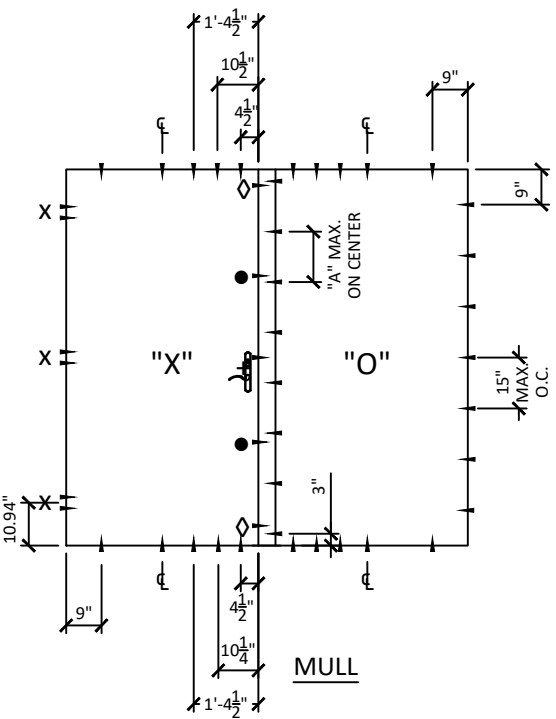
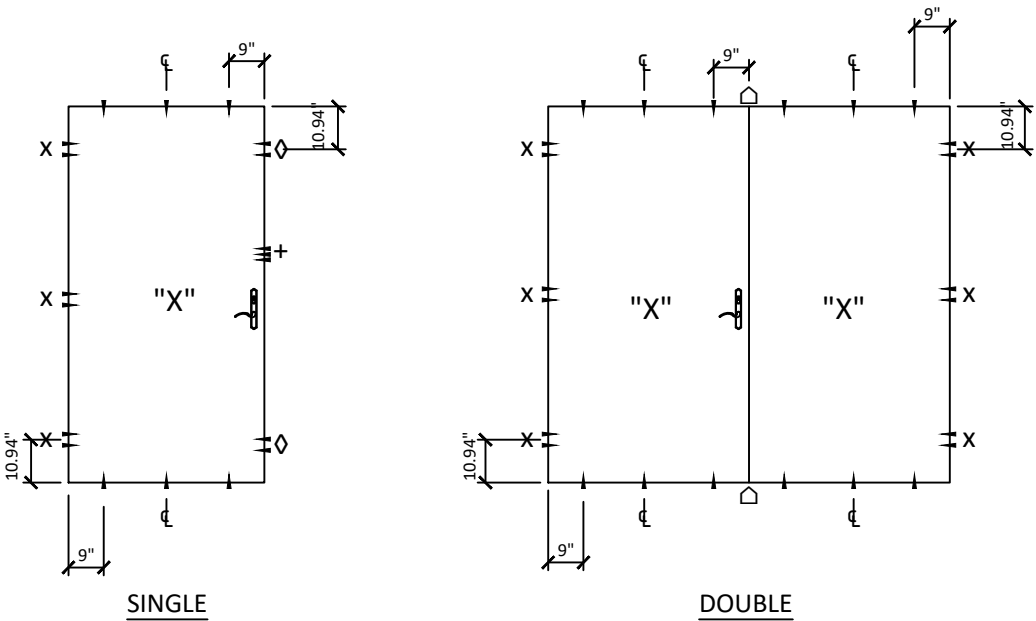
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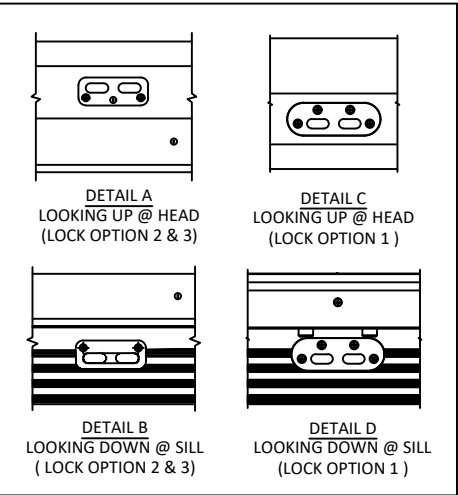
Page 11 of 25

ANCHOR LAYOUT



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 A: - WOOD OR STEEL: TWO (2) - CONCRETE: TWO (2) DETAIL C: - WOOD OR STEEL: FOUR (4) - CONCRETE: TWO (2) ANCHORS THRU STRIKE SILL PLATE: DETAIL B: - WOOD OR STEEL: TWO (2) - CONCRETE: TWO (2) DETAIL D: - 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 - INSWING
(NON IMPACT) (NON HVHZ)
ANCHOR LAYOUTS

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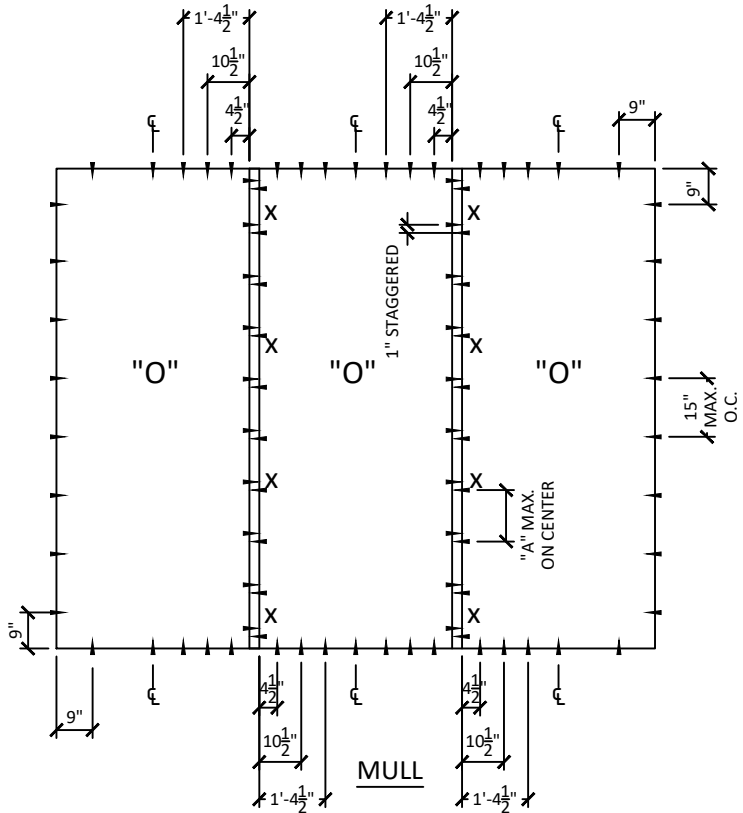
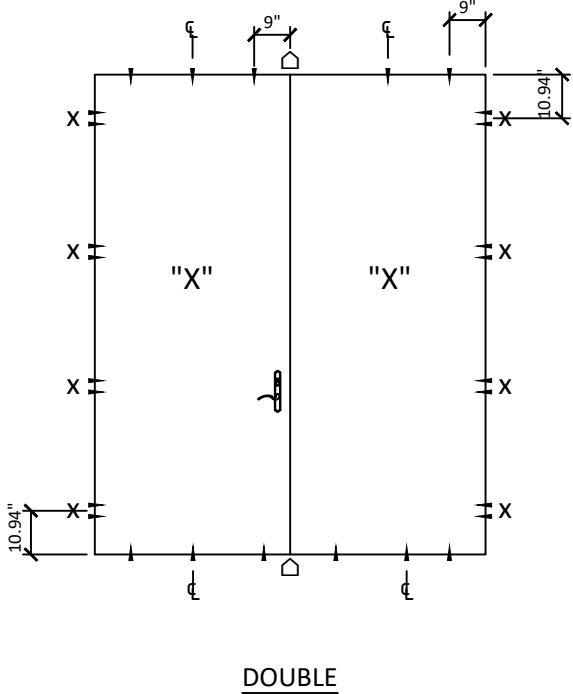
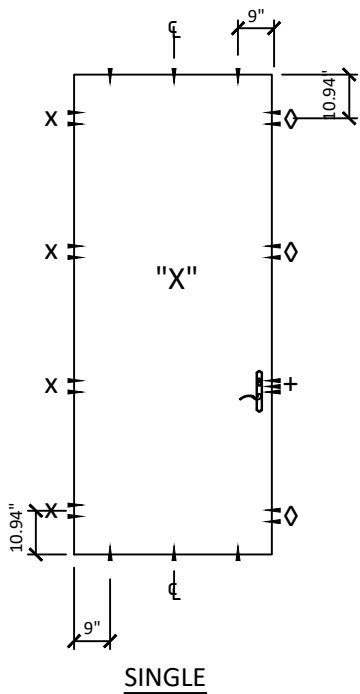
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SCALE: **NTS**

DWG. #: **AWD229**

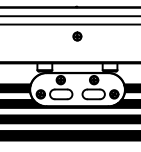
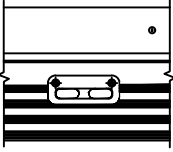
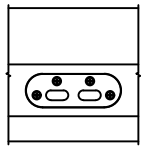
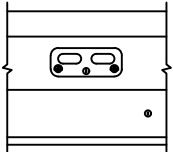
SECTION
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Page 12 of 25

ANCHOR LAYOUT (Cont.)



ACTIVE DOOR LEGEND "X"	
X	TWO (2) ANCHOR THRU HINGE PLATE
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•	ANCHOR MID-SPAN BETWEEN HINGES AND STRIKE PLATES

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UP TO 65 PSF	13" MAX. O.C.



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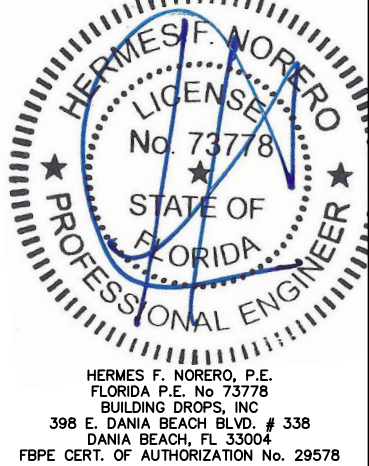
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E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
ANCHOR LAYOUTS

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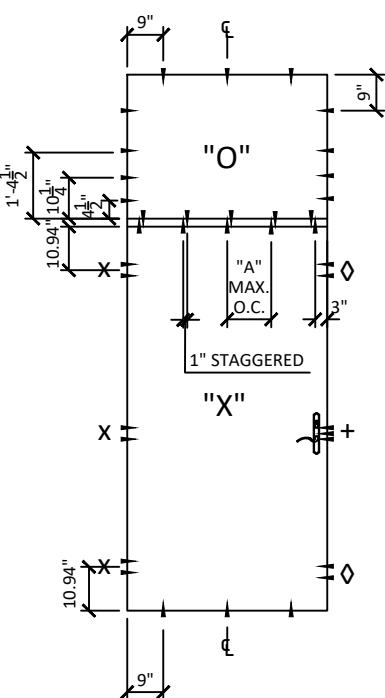
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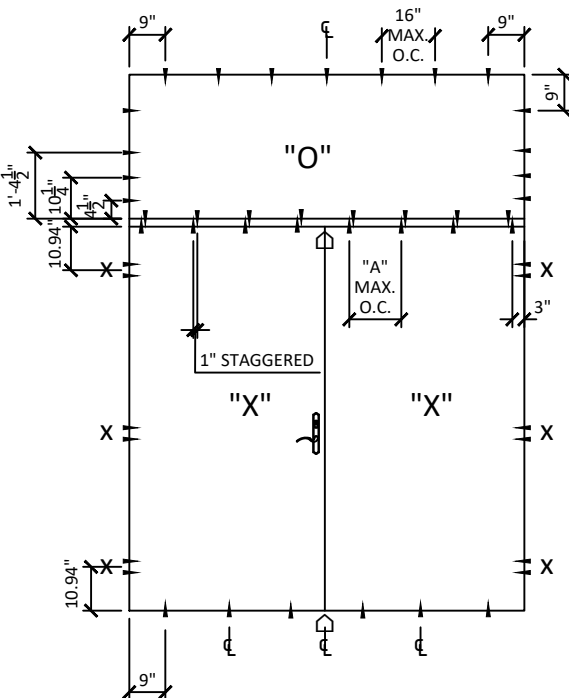


FL #:	FL25570
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SECTION	7.1

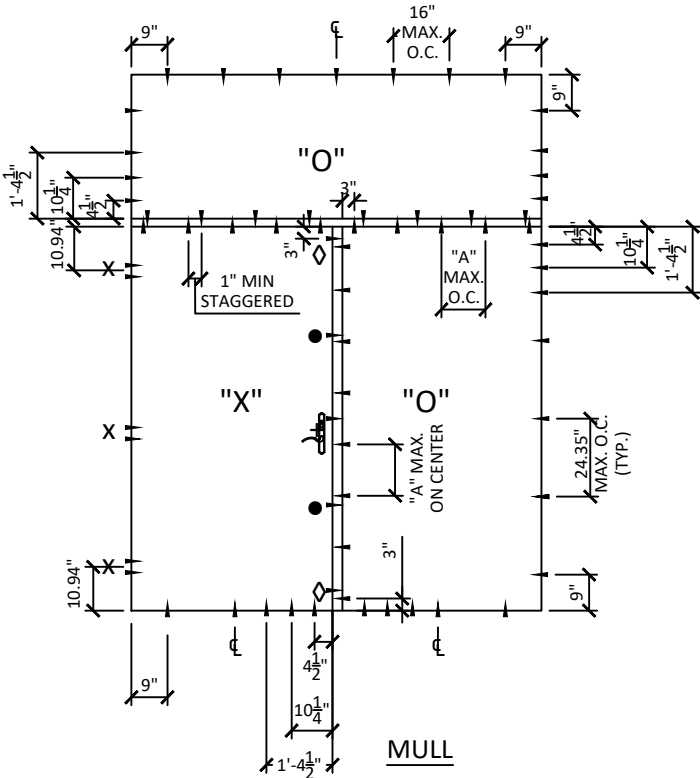
ANCHOR LAYOUT WITH TRANSOM



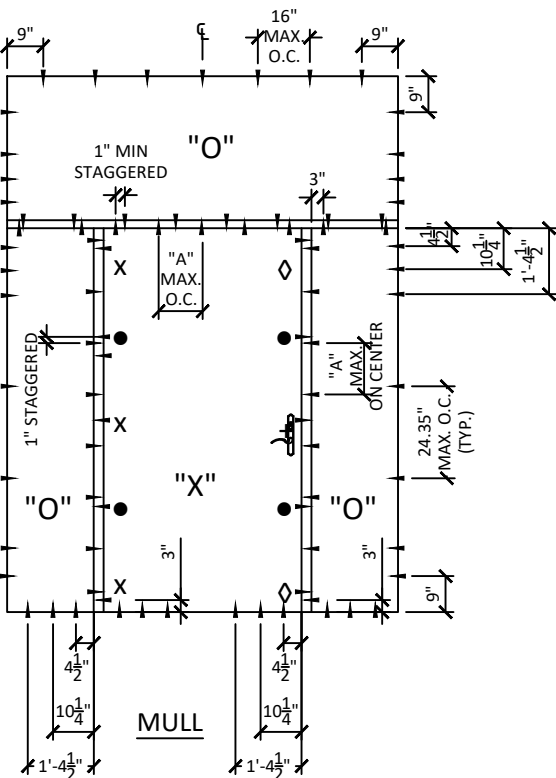
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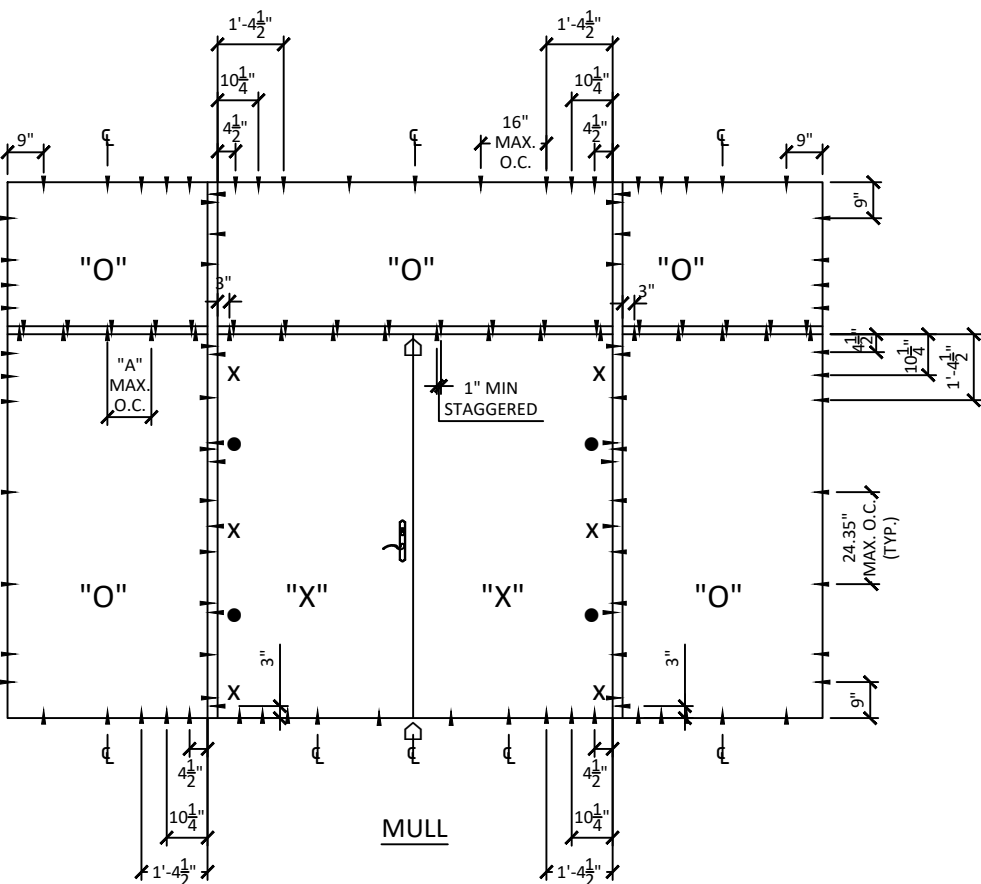
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MULL



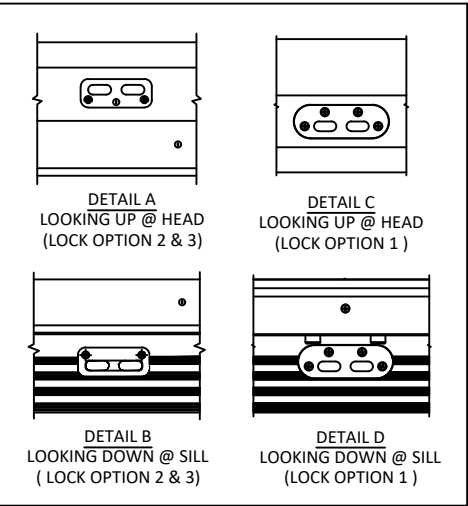
MULL



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 A: - WOOD OR STEEL: TWO (2) - CONCRETE: TWO (2) DETAIL C: - WOOD OR STEEL: FOUR (4) - CONCRETE: TWO (2) ANCHORS THRU STRIKE SILL PLATE: DETAIL B: - WOOD OR STEEL: TWO (2) - CONCRETE: TWO (2) DETAIL D: - 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 - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
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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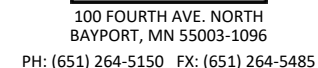
HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD229
SECTION	7.2



1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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.
4. 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.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. 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.
8. 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.
9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - C. MASONRY - MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS (20 GAUGE).
 - E. 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			



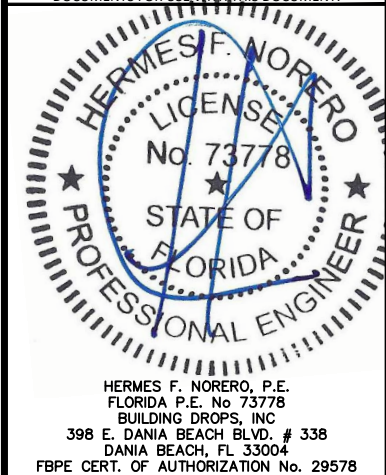
TITLE: *E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)*
ANCHOR DETAILS, SCHEDULE & NOTES

PREPARED BY: **BUILDING DROPS, INC.**
3908 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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.18
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
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SCALE: NTS

DWG. #: AWD229

SECTION

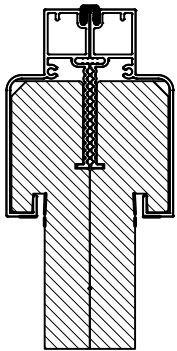
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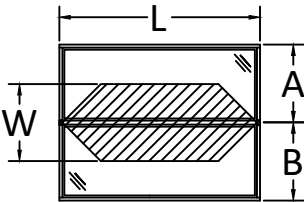
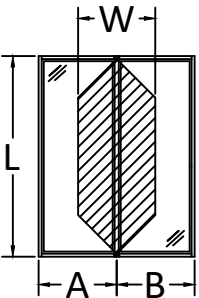
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF) ZERO STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	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	67.95	65.98	65.98	65.98	65.98	65.98	65.98	65.98	65.98	65.98	65.98	65.98	65.98	65.98
48.0	64.27	48.33	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20	44.20
54.0	49.84	36.42	31.61	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04
60.0	39.84	28.56	23.97	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63
66.0	32.61	23.06	18.91	17.21	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
72.0	27.20	19.04	15.36	13.63	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.10
78.0	23.05	16.01	12.76	11.12	10.39	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30	10.30
84.0	19.79	13.66	10.79	9.27	8.49	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25	8.25
90.0	17.17	11.80	9.26	7.87	7.10	6.75	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71
96.0	15.05	10.31	8.03	6.77	6.04	5.65	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52
102.0	13.30	9.08	7.04	5.90	5.21	4.82	4.63	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61
108.0	11.84	8.06	6.23	5.19	4.55	4.16	3.95	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.88
114.0	10.61	7.21	5.55	4.60	4.01	3.64	3.42	3.31	3.30	3.30	3.30	3.30	3.30	3.30	3.30
120.0	9.56	6.48	4.98	4.11	3.57	3.22	3.00	2.87	2.83	2.83	2.83	2.83	2.83	2.83	2.83
126.0	8.66	5.86	4.49	3.70	3.20	2.87	2.65	2.52	2.45	2.44	2.44	2.44	2.44	2.44	2.44
132.0	7.88	5.33	4.08	3.35	2.88	2.57	2.36	2.23	2.15	2.13	2.13	2.13	2.13	2.13	2.13
138.0	7.21	4.86	3.72	3.04	2.61	2.32	2.12	1.99	1.91	1.87	1.86	1.86	1.86	1.86	1.86
144.0	6.61	4.46	3.40	2.78	2.38	2.11	1.92	1.79	1.70	1.65	1.64	1.64	1.64	1.64	1.64
150.0	6.09	4.10	3.12	2.55	2.18	1.92	1.75	1.62	1.53	1.48	1.45	1.45	1.45	1.45	1.45
156.0	5.63	3.79	2.88	2.35	2.00	1.76	1.60	1.47	1.39	1.33	1.30	1.29	1.29	1.29	1.29
162.0	5.21	3.51	2.67	2.17	1.85	1.62	1.46	1.35	1.27	1.21	1.17	1.15	1.15	1.15	1.15
168.0	4.85	3.26	2.47	2.01	1.71	1.50	1.35	1.24	1.16	1.10	1.06	1.04	1.03	1.03	1.03
174.0	4.52	3.03	2.30	1.87	1.59	1.39	1.25	1.14	1.07	1.01	0.97	0.94	0.93	0.93	0.93
180.0	4.22	2.83	2.15	1.74	1.48	1.29	1.16	1.06	0.98	0.93	0.89	0.86	0.84	0.84	0.84
186.0	3.95	2.65	2.01	1.63	1.38	1.20	1.08	0.98	0.91	0.86	0.82	0.79	0.77	0.76	0.76
192.0	3.70	2.49	1.88	1.52	1.29	1.12	1.00	0.91	0.85	0.79	0.76	0.73	0.71	0.69	0.69

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 - INSWING
(NON IMPACT) (NON HVHZ)
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
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
TEST STANDARDS UPDATE	HR	7.2.18
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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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**

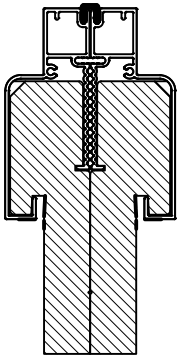
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DWG. #: **AWD229**

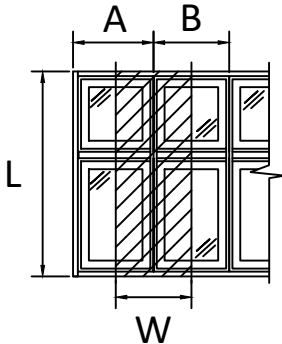
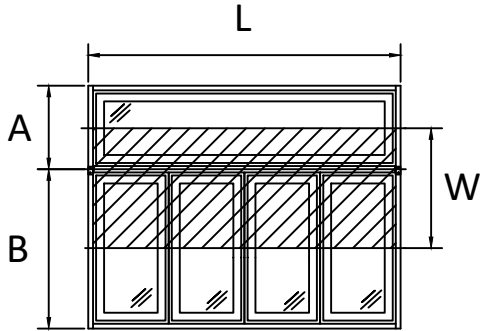
SECTION
9.0
Page 16 of 25

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	58.93	52.38	47.15	42.86	39.29	36.27	33.68	31.43	29.47
30.0	60.00	60.00	60.00	60.00	50.29	43.11	37.72	33.53	30.17	27.43	25.14	23.21	21.55	20.12	18.86
36.0	60.00	60.00	52.38	41.91	34.92	29.93	26.19	23.28	20.95	19.05	17.46	16.12	14.97	13.97	13.10
42.0	60.00	51.32	38.49	30.79	25.66	21.99	19.24	17.11	15.39	14.00	12.83	11.84	11.00	10.26	9.62
48.0	58.93	39.29	29.47	23.57	19.64	16.84	14.73	13.10	11.79	10.72	9.82	9.07	8.42	7.86	7.37
54.0	46.56	31.04	23.28	18.63	15.52	13.30	11.64	10.35	9.31	8.47	7.76	7.16	6.65	6.21	5.82
60.0	37.72	25.14	18.86	15.09	12.57	10.78	9.43	8.38	7.54	6.86	6.29	5.80	5.39	5.03	4.71
66.0	31.17	20.78	15.59	12.47	10.39	8.91	7.79	6.93	6.23	5.67	5.20	4.80	4.45	4.16	3.90
72.0	26.19	17.46	13.10	10.48	8.73	7.48	6.55	5.82	5.24	4.76	4.37	4.03	3.74	3.49	3.27
78.0	22.32	14.88	11.16	8.93	7.44	6.38	5.58	4.96	4.46	4.06	3.72	3.43	3.19	2.98	2.79
84.0	19.24	12.83	9.62	7.70	6.41	5.50	4.81	4.28	3.85	3.50	3.21	2.96	2.75	2.57	2.41
90.0	16.76	11.18	8.38	6.71	5.59	4.79	4.19	3.73	3.35	3.05	2.79	2.58	2.39	2.24	2.10
96.0	14.73	9.82	7.37	5.89	4.91	4.21	3.68	3.27	2.95	2.68	2.46	2.27	2.10	1.96	1.84
102.0	13.05	8.70	6.53	5.22	4.35	3.73	3.26	2.90	2.61	2.37	2.18	2.01	1.86	1.74	1.63
108.0	11.64	7.76	5.82	4.66	3.88	3.33	2.91	2.59	2.33	2.12	1.94	1.79	1.66	1.55	1.46
114.0	10.45	6.97	5.22	4.18	3.48	2.99	2.61	2.32	2.09	1.90	1.74	1.61	1.49	1.39	1.31
120.0	9.43	6.29	4.71	3.77	3.14	2.69	2.36	2.10	1.89	1.71	1.57	1.45	1.35	1.26	1.18
126.0	8.55	5.70	4.28	3.42	2.85	2.44	2.14	1.90	1.71	1.56	1.43	1.32	1.22	1.14	1.07
132.0	7.79	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20	1.11	1.04	0.97
138.0	7.13	4.75	3.56	2.85	2.38	2.04	1.78	1.58	1.43	1.30	1.19	1.10	1.02	0.95	0.89
144.0	6.55	4.37	3.27	2.62	2.18	1.87	1.64	1.46	1.31	1.19	1.09	1.01	0.94	0.87	0.82
150.0	6.03	4.02	3.02	2.41	2.01	1.72	1.51	1.34	1.21	1.10	1.01	0.93	0.86	0.80	0.75
156.0	5.58	3.72	2.79	2.23	1.86	1.59	1.39	1.24	1.12	1.01	0.93	0.86	0.80	0.74	0.70
162.0	5.17	3.45	2.59	2.07	1.72	1.48	1.29	1.15	1.03	0.94	0.86	0.80	0.74	0.69	0.65
168.0	4.81	3.21	2.41	1.92	1.60	1.37	1.20	1.07	0.96	0.87	0.80	0.74	0.69	0.64	0.60
174.0	4.48	2.99	2.24	1.79	1.49	1.28	1.12	1.00	0.90	0.82	0.75	0.69	0.64	0.60	0.56
180.0	4.19	2.79	2.10	1.68	1.40	1.20	1.05	0.93	0.84	0.76	0.70	0.64	0.60	0.56	0.52
186.0	3.92	2.62	1.96	1.57	1.31	1.12	0.98	0.87	0.78	0.71	0.65	0.60	0.56	0.52	0.49
192.0	3.68	2.46	1.84	1.47	1.23	1.05	0.92	0.82	0.74	0.67	0.61	0.57	0.53	0.49	0.46

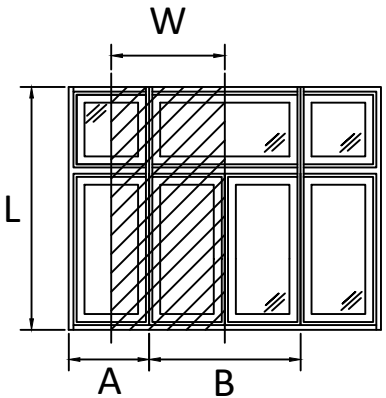
- NOTE:**
- MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SECTION 8.
 - TRIBUTARY WIDTH = $W = (A+B)/2$
 - 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 - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	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.

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

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

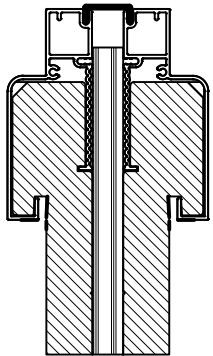
SCALE: NTS

DWG. #: AWD229

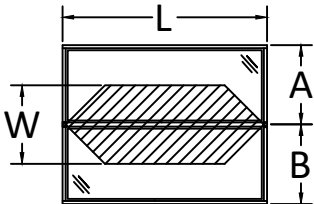
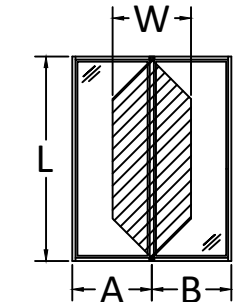
SECTION
9.1
Page 17 of 25

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	68.55	65.86	65.86	65.86	65.86	65.86	65.86	65.86	65.86	65.86	65.86	65.86
78.0	75.00	75.00	64.19	55.90	52.26	51.80	51.80	51.80	51.80	51.80	51.80	51.80	51.80	51.80	51.80
84.0	75.00	68.71	54.27	46.62	42.72	41.47	41.47	41.47	41.47	41.47	41.47	41.47	41.47	41.47	41.47
90.0	75.00	59.36	46.54	39.56	35.71	33.95	33.72	33.72	33.72	33.72	33.72	33.72	33.72	33.72	33.72
96.0	75.00	51.82	40.40	34.05	30.38	28.42	27.78	27.78	27.78	27.78	27.78	27.78	27.78	27.78	27.78
102.0	66.89	45.65	35.42	29.66	26.22	24.22	23.29	23.16	23.16	23.16	23.16	23.16	23.16	23.16	23.16
108.0	58.98	40.35	31.33	26.09	22.89	20.94	19.87	19.51	19.51	19.51	19.51	19.51	19.51	19.51	19.51
114.0	50.04	34.15	26.44	22.05	19.35	17.68	16.70	16.25	16.18	16.18	16.18	16.18	16.18	16.18	16.18
120.0	42.83	29.16	22.51	18.69	16.32	14.80	13.86	13.35	13.18	13.18	13.18	13.18	13.18	13.18	13.18
126.0	36.94	25.10	19.33	15.99	13.89	12.53	11.65	11.13	10.88	10.84	10.84	10.84	10.84	10.84	10.84
132.0	32.08	21.76	16.72	13.79	11.94	10.71	9.90	9.39	9.10	9.00	9.00	9.00	9.00	9.00	9.00
138.0	28.04	19.00	14.57	11.98	10.34	9.24	8.49	8.00	7.70	7.56	7.53	7.53	7.53	7.53	7.53
144.0	24.66	16.68	12.77	10.48	9.01	8.03	7.34	6.88	6.58	6.42	6.35	6.35	6.35	6.35	6.35
150.0	21.79	14.73	11.25	9.22	7.91	7.02	6.40	5.97	5.68	5.50	5.41	5.40	5.40	5.40	5.40
156.0	19.36	13.07	9.97	8.16	6.98	6.18	5.61	5.21	4.94	4.76	4.65	4.61	4.61	4.61	4.61
162.0	17.27	11.65	8.88	7.25	6.19	5.47	4.95	4.59	4.32	4.14	4.03	3.98	3.97	3.97	3.97
168.0	15.48	10.43	7.94	6.48	5.52	4.87	4.40	4.06	3.81	3.64	3.52	3.45	3.43	3.43	3.43
174.0	13.92	9.38	7.13	5.81	4.95	4.35	3.92	3.61	3.38	3.21	3.10	3.02	2.99	2.98	2.98
180.0	12.57	8.46	6.43	5.23	4.45	3.90	3.51	3.22	3.01	2.85	2.74	2.66	2.62	2.60	2.60
186.0	11.39	7.66	5.82	4.73	4.01	3.52	3.16	2.89	2.69	2.54	2.44	2.36	2.31	2.29	2.28
192.0	10.35	6.96	5.28	4.28	3.63	3.18	2.85	2.61	2.42	2.28	2.18	2.10	2.05	2.02	2.01

- NOTE:**
- MULLION CHART APPLIES TO 1/2" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 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.
 - MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SECTION 8.
 - TRIBUTARY WIDTH = $W = (A+B)/2$
 - 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



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

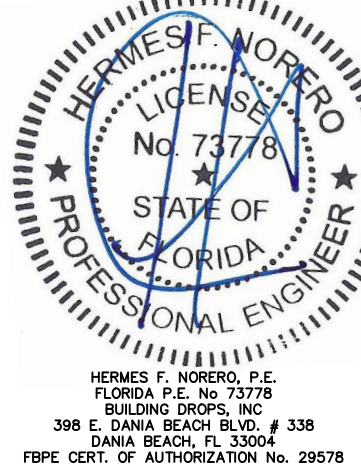


100 FOURTH AVE. NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19

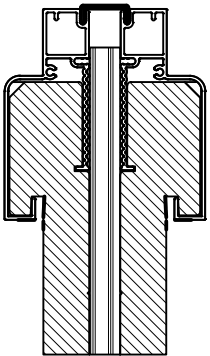
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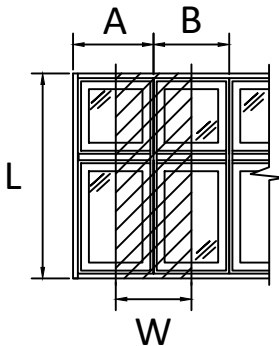
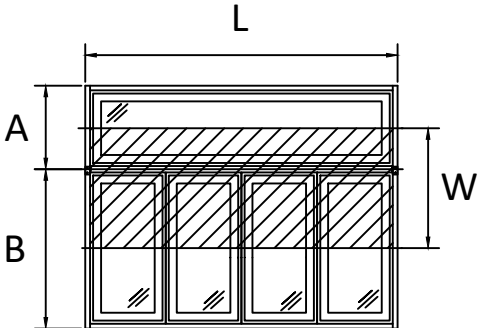
FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD229
SECTION	9.2

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	52.25	44.79	39.19	34.83	31.35	28.50	26.13	24.12	22.39	20.90	19.59
72.0	60.00	60.00	60.00	52.69	43.91	37.63	32.93	29.27	26.34	23.95	21.95	20.26	18.82	17.56	16.46
78.0	60.00	60.00	56.12	44.89	37.41	32.07	28.06	24.94	22.45	20.41	18.71	17.27	16.03	14.96	14.03
84.0	60.00	60.00	48.39	38.71	32.26	27.65	24.19	21.50	19.35	17.59	16.13	14.89	13.82	12.90	12.10
90.0	60.00	56.20	42.15	33.72	28.10	24.09	21.07	18.73	16.86	15.33	14.05	12.97	12.04	11.24	10.54
96.0	60.00	49.39	37.05	29.64	24.70	21.17	18.52	16.46	14.82	13.47	12.35	11.40	10.58	9.88	9.26
102.0	60.00	43.75	32.82	26.25	21.88	18.75	16.41	14.58	13.13	11.93	10.94	10.10	9.38	8.75	8.20
108.0	57.84	38.56	28.92	23.14	19.28	16.53	14.46	12.85	11.57	10.52	9.64	8.90	8.26	7.71	7.23
114.0	49.18	32.79	24.59	19.67	16.39	14.05	12.30	10.93	9.84	8.94	8.20	7.57	7.03	6.56	6.15
120.0	42.17	28.11	21.08	16.87	14.06	12.05	10.54	9.37	8.43	7.67	7.03	6.49	6.02	5.62	5.27
126.0	36.43	24.28	18.21	14.57	12.14	10.41	9.11	8.09	7.29	6.62	6.07	5.60	5.20	4.86	4.55
132.0	31.68	21.12	15.84	12.67	10.56	9.05	7.92	7.04	6.34	5.76	5.28	4.87	4.53	4.22	3.96
138.0	27.73	18.48	13.86	11.09	9.24	7.92	6.93	6.16	5.55	5.04	4.62	4.27	3.96	3.70	3.47
144.0	24.40	16.27	12.20	9.76	8.13	6.97	6.10	5.42	4.88	4.44	4.07	3.75	3.49	3.25	3.05
150.0	21.59	14.39	10.80	8.64	7.20	6.17	5.40	4.80	4.32	3.93	3.60	3.32	3.08	2.88	2.70
156.0	19.19	12.80	9.60	7.68	6.40	5.48	4.80	4.27	3.84	3.49	3.20	2.95	2.74	2.56	2.40
162.0	17.14	11.43	8.57	6.86	5.71	4.90	4.28	3.81	3.43	3.12	2.86	2.64	2.45	2.29	2.14
168.0	15.37	10.24	7.68	6.15	5.12	4.39	3.84	3.41	3.07	2.79	2.56	2.36	2.20	2.05	1.92
174.0	13.83	9.22	6.92	5.53	4.61	3.95	3.46	3.07	2.77	2.51	2.31	2.13	1.98	1.84	1.73
180.0	12.49	8.33	6.25	5.00	4.16	3.57	3.12	2.78	2.50	2.27	2.08	1.92	1.78	1.67	1.56
186.0	11.32	7.55	5.66	4.53	3.77	3.24	2.83	2.52	2.26	2.06	1.89	1.74	1.62	1.51	1.42
192.0	10.29	6.86	5.15	4.12	3.43	2.94	2.57	2.29	2.06	1.87	1.72	1.58	1.47	1.37	1.29

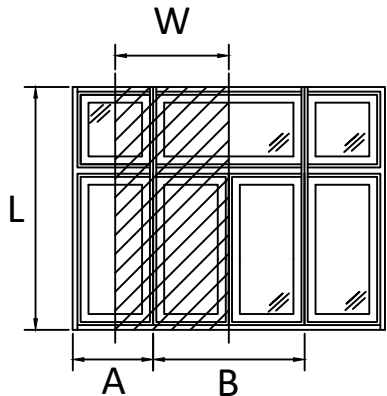
- NOTE:**
- 1) MULLION CHART APPLIES TO 1/2" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE 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.



1/2" 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

TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL 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
LICENSED PROFESSIONAL ENGINEER
No. 73778
STATE OF FLORIDA

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

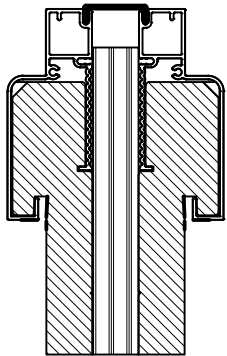
DWG. #:
AWD229

SECTION
9.3

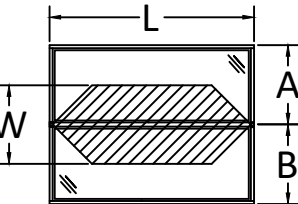
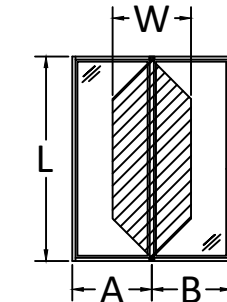
Page 19 of 25

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	66.48	62.14	61.60	61.60	61.60	61.60	61.60	61.60	61.60	61.60	61.60	61.60
84.0	75.00	75.00	64.53	55.43	50.80	49.32	49.32	49.32	49.32	49.32	49.32	49.32	49.32	49.32	49.32
90.0	75.00	70.59	55.35	47.04	42.47	40.37	40.10	40.10	40.10	40.10	40.10	40.10	40.10	40.10	40.10
96.0	75.00	61.63	48.04	40.49	36.13	33.80	33.04	33.04	33.04	33.04	33.04	33.04	33.04	33.04	33.04
102.0	75.00	54.29	42.12	35.27	31.18	28.81	27.69	27.55	27.55	27.55	27.55	27.55	27.55	27.55	27.55
108.0	70.14	47.98	37.25	31.02	27.22	24.90	23.63	23.20	23.20	23.20	23.20	23.20	23.20	23.20	23.20
114.0	59.51	40.61	31.45	26.22	23.01	21.02	19.86	19.32	19.24	19.24	19.24	19.24	19.24	19.24	19.24
120.0	50.93	34.67	26.77	22.23	19.40	17.60	16.49	15.88	15.67	15.67	15.67	15.67	15.67	15.67	15.67
126.0	43.92	29.85	22.98	19.02	16.52	14.90	13.86	13.23	12.94	12.89	12.89	12.89	12.89	12.89	12.89
132.0	38.15	25.88	19.88	16.40	14.20	12.74	11.77	11.16	10.82	10.70	10.70	10.70	10.70	10.70	10.70
138.0	33.35	22.59	17.32	14.25	12.29	10.98	10.10	9.51	9.16	8.99	8.96	8.96	8.96	8.96	8.96
144.0	29.32	19.84	15.18	12.46	10.72	9.54	8.73	8.18	7.83	7.63	7.56	7.56	7.56	7.56	7.56
150.0	25.92	17.51	13.38	10.97	9.41	8.35	7.61	7.10	6.75	6.54	6.44	6.42	6.42	6.42	6.42
156.0	23.02	15.54	11.86	9.70	8.30	7.35	6.68	6.20	5.87	5.65	5.53	5.49	5.49	5.49	5.49
162.0	20.54	13.85	10.56	8.62	7.37	6.50	5.89	5.45	5.14	4.93	4.79	4.73	4.72	4.72	4.72
168.0	18.41	12.40	9.44	7.70	6.57	5.79	5.23	4.82	4.53	4.32	4.19	4.11	4.08	4.08	4.08
174.0	16.56	11.15	8.48	6.91	5.88	5.17	4.66	4.29	4.02	3.82	3.68	3.60	3.55	3.54	3.54
180.0	14.95	10.06	7.64	6.22	5.29	4.64	4.18	3.83	3.58	3.39	3.26	3.17	3.11	3.10	3.10
186.0	13.54	9.11	6.92	5.62	4.77	4.18	3.76	3.44	3.20	3.03	2.90	2.81	2.75	2.72	2.71
192.0	12.31	8.27	6.28	5.10	4.32	3.78	3.39	3.10	2.88	2.71	2.59	2.50	2.44	2.40	2.39

- 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.



3/4" 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

TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	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.

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

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

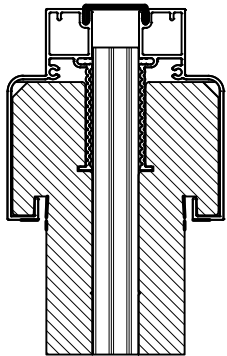
SECTION
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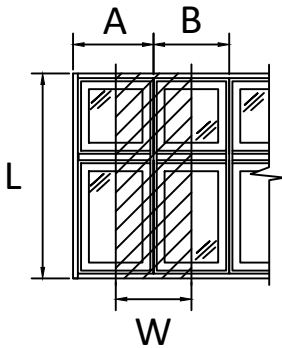
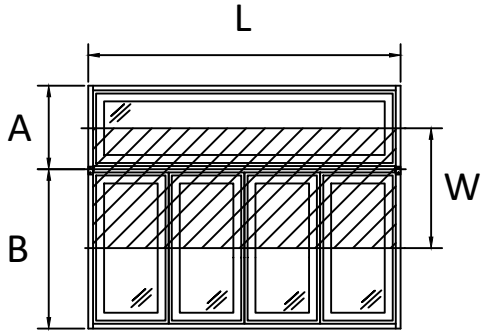
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	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	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	53.39	44.49	38.13	33.37	29.66	26.69	24.27	22.24	20.53	19.07	17.80	16.68
84.0	60.00	60.00	57.54	46.03	38.36	32.88	28.77	25.57	23.02	20.92	19.18	17.70	16.44	15.34	14.38
90.0	60.00	60.00	50.12	40.10	33.42	28.64	25.06	22.28	20.05	18.23	16.71	15.42	14.32	13.37	12.53
96.0	60.00	58.74	44.05	35.24	29.37	25.17	22.03	19.58	17.62	16.02	14.68	13.55	12.59	11.75	11.01
102.0	60.00	52.03	39.02	31.22	26.02	22.30	19.51	17.34	15.61	14.19	13.01	12.01	11.15	10.41	9.76
108.0	60.00	45.86	34.39	27.51	22.93	19.65	17.20	15.29	13.76	12.51	11.46	10.58	9.83	9.17	8.60
114.0	58.49	38.99	29.24	23.39	19.50	16.71	14.62	13.00	11.70	10.63	9.75	9.00	8.36	7.80	7.31
120.0	50.15	33.43	25.07	20.06	16.72	14.33	12.54	11.14	10.03	9.12	8.36	7.71	7.16	6.69	6.27
126.0	43.32	28.88	21.66	17.33	14.44	12.38	10.83	9.63	8.66	7.88	7.22	6.66	6.19	5.78	5.41
132.0	37.67	25.12	18.84	15.07	12.56	10.76	9.42	8.37	7.53	6.85	6.28	5.80	5.38	5.02	4.71
138.0	32.97	21.98	16.49	13.19	10.99	9.42	8.24	7.33	6.59	5.99	5.50	5.07	4.71	4.40	4.12
144.0	29.02	19.35	14.51	11.61	9.67	8.29	7.25	6.45	5.80	5.28	4.84	4.46	4.15	3.87	3.63
150.0	25.67	17.12	12.84	10.27	8.56	7.34	6.42	5.71	5.13	4.67	4.28	3.95	3.67	3.42	3.21
156.0	22.82	15.22	11.41	9.13	7.61	6.52	5.71	5.07	4.56	4.15	3.80	3.51	3.26	3.04	2.85
162.0	20.38	13.59	10.19	8.15	6.79	5.82	5.10	4.53	4.08	3.71	3.40	3.14	2.91	2.72	2.55
168.0	18.27	12.18	9.14	7.31	6.09	5.22	4.57	4.06	3.65	3.32	3.05	2.81	2.61	2.44	2.28
174.0	16.45	10.97	8.22	6.58	5.48	4.70	4.11	3.66	3.29	2.99	2.74	2.53	2.35	2.19	2.06
180.0	14.86	9.91	7.43	5.94	4.95	4.25	3.71	3.30	2.97	2.70	2.48	2.29	2.12	1.98	1.86
186.0	13.47	8.98	6.73	5.39	4.49	3.85	3.37	2.99	2.69	2.45	2.24	2.07	1.92	1.80	1.68
192.0	12.24	8.16	6.12	4.90	4.08	3.50	3.06	2.72	2.45	2.23	2.04	1.88	1.75	1.63	1.53

NOTE:

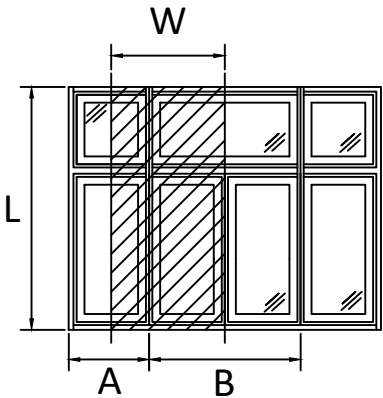
- 1) MULLION CHART APPLIES TO 3/4" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION 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.



3/4" 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

TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	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.

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

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

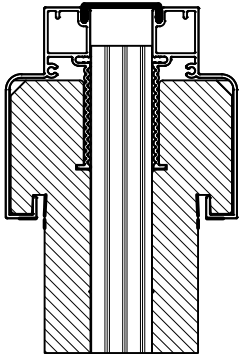
SECTION
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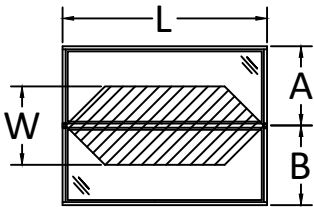
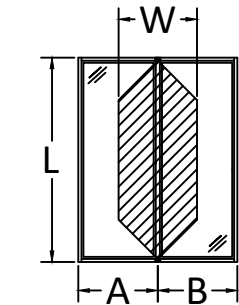
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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	70.40	67.05	66.65	66.65	66.65	66.65	66.65	66.65	66.65	66.65	66.65	66.65
84.0	75.00	75.00	70.40	62.58	58.67	57.16	57.16	57.16	57.16	57.16	57.16	57.16	57.16	57.16	57.16
90.0	75.00	75.00	64.00	54.53	49.22	46.79	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48	46.48
96.0	75.00	71.43	55.68	46.94	41.88	39.18	38.30	38.30	38.30	38.30	38.30	38.30	38.30	38.30	38.30
102.0	75.00	62.92	48.82	40.88	36.14	33.39	32.10	31.93	31.93	31.93	31.93	31.93	31.93	31.93	31.93
108.0	75.00	55.62	43.18	35.96	31.56	28.87	27.39	26.90	26.90	26.90	26.90	26.90	26.90	26.90	26.90
114.0	68.98	47.07	36.45	30.39	26.67	24.36	23.02	22.39	22.30	22.30	22.30	22.30	22.30	22.30	22.30
120.0	59.03	40.19	31.03	25.76	22.49	20.40	19.11	18.41	18.16	18.16	18.16	18.16	18.16	18.16	18.16
126.0	50.91	34.60	26.64	22.04	19.15	17.27	16.06	15.34	15.00	14.94	14.94	14.94	14.94	14.94	14.94
132.0	44.22	30.00	23.05	19.01	16.45	14.76	13.65	12.94	12.54	12.41	12.41	12.41	12.41	12.41	12.41
138.0	38.65	26.18	20.08	16.52	14.25	12.73	11.70	11.03	10.62	10.42	10.38	10.38	10.38	10.38	10.38
144.0	33.98	22.99	17.60	14.45	12.42	11.06	10.12	9.49	9.07	8.84	8.76	8.76	8.76	8.76	8.76
150.0	30.04	20.30	15.51	12.71	10.90	9.68	8.82	8.23	7.83	7.58	7.46	7.44	7.44	7.44	7.44
156.0	26.68	18.01	13.75	11.24	9.62	8.52	7.74	7.19	6.81	6.55	6.41	6.36	6.36	6.36	6.36
162.0	23.81	16.06	12.24	9.99	8.54	7.54	6.83	6.32	5.96	5.71	5.56	5.48	5.47	5.47	5.47
168.0	21.33	14.38	10.95	8.93	7.61	6.71	6.06	5.59	5.25	5.01	4.85	4.76	4.73	4.73	4.73
174.0	19.19	12.92	9.83	8.01	6.82	5.99	5.40	4.97	4.65	4.43	4.27	4.17	4.12	4.11	4.11
180.0	17.33	11.66	8.86	7.21	6.13	5.38	4.84	4.44	4.15	3.93	3.77	3.67	3.61	3.59	3.59
186.0	15.70	10.56	8.02	6.51	5.53	4.85	4.35	3.99	3.71	3.51	3.36	3.25	3.19	3.15	3.15
192.0	14.26	9.59	7.27	5.91	5.01	4.39	3.93	3.59	3.34	3.15	3.00	2.90	2.83	2.79	2.77

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.



1" 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

TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	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.

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

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

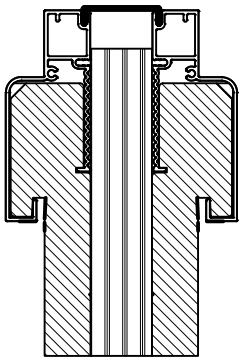
DWG. #:
AWD229

SECTION
9.6

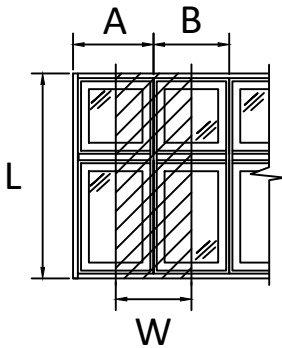
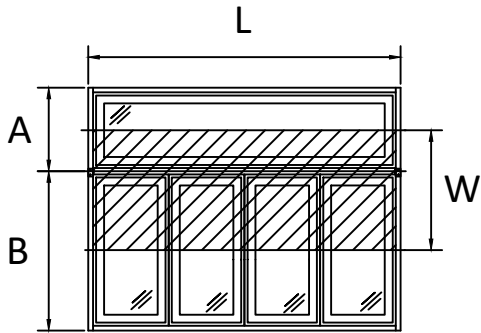
Page 22 of 25

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	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	58.10	46.48	38.73	33.20	29.05	25.82	23.24	21.13	19.37	17.88	16.60	15.49	14.52
96.0	60.00	60.00	51.06	40.85	34.04	29.18	25.53	22.69	20.42	18.57	17.02	15.71	14.59	13.62	12.77
102.0	60.00	60.00	45.23	36.18	30.15	25.85	22.62	20.10	18.09	16.45	15.08	13.92	12.92	12.06	11.31
108.0	60.00	53.15	39.86	31.89	26.58	22.78	19.93	17.72	15.95	14.50	13.29	12.27	11.39	10.63	9.97
114.0	60.00	45.19	33.90	27.12	22.60	19.37	16.95	15.06	13.56	12.33	11.30	10.43	9.68	9.04	8.47
120.0	58.12	38.75	29.06	23.25	19.37	16.61	14.53	12.92	11.62	10.57	9.69	8.94	8.30	7.75	7.27
126.0	50.21	33.47	25.10	20.08	16.74	14.35	12.55	11.16	10.04	9.13	8.37	7.72	7.17	6.69	6.28
132.0	43.67	29.11	21.83	17.47	14.56	12.48	10.92	9.70	8.73	7.94	7.28	6.72	6.24	5.82	5.46
138.0	38.22	25.48	19.11	15.29	12.74	10.92	9.55	8.49	7.64	6.95	6.37	5.88	5.46	5.10	4.78
144.0	33.64	22.42	16.82	13.45	11.21	9.61	8.41	7.47	6.73	6.12	5.61	5.17	4.81	4.48	4.20
150.0	29.76	19.84	14.88	11.90	9.92	8.50	7.44	6.61	5.95	5.41	4.96	4.58	4.25	3.97	3.72
156.0	26.46	17.64	13.23	10.58	8.82	7.56	6.61	5.88	5.29	4.81	4.41	4.07	3.78	3.53	3.31
162.0	23.62	15.75	11.81	9.45	7.87	6.75	5.91	5.25	4.72	4.30	3.94	3.63	3.37	3.15	2.95
168.0	21.18	14.12	10.59	8.47	7.06	6.05	5.30	4.71	4.24	3.85	3.53	3.26	3.03	2.82	2.65
174.0	19.07	12.71	9.53	7.63	6.36	5.45	4.77	4.24	3.81	3.47	3.18	2.93	2.72	2.54	2.38
180.0	17.22	11.48	8.61	6.89	5.74	4.92	4.31	3.83	3.44	3.13	2.87	2.65	2.46	2.30	2.15
186.0	15.61	10.41	7.80	6.24	5.20	4.46	3.90	3.47	3.12	2.84	2.60	2.40	2.23	2.08	1.95
192.0	14.19	9.46	7.09	5.68	4.73	4.05	3.55	3.15	2.84	2.58	2.36	2.18	2.03	1.89	1.77

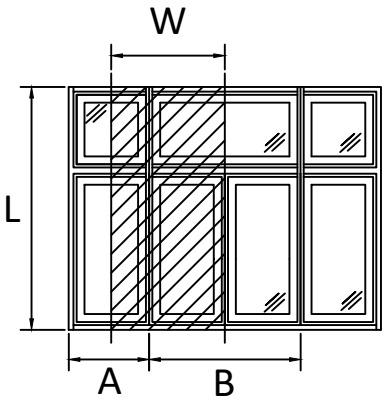
- NOTE:**
- 1) MULLION CHART APPLIES TO 1" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF 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
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1" 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

TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
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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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

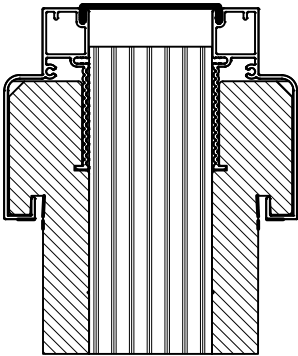
SECTION
9.7

Page 23 of 25

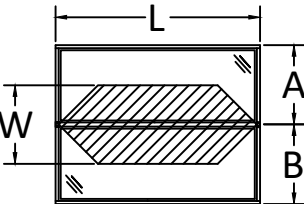
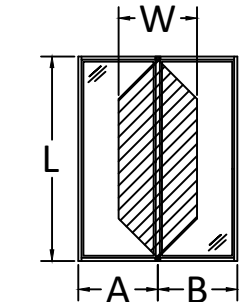
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF) 2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	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	48.88	44.71	42.42	41.66	41.66	41.66	41.66	41.66	41.66	41.66	41.66
114.0	75.00	72.91	56.46	47.07	41.31	37.74	35.66	34.69	34.54	34.54	34.54	34.54	34.54	34.54	34.54
120.0	75.00	62.25	48.06	39.91	34.83	31.60	29.60	28.51	28.13	28.13	28.13	28.13	28.13	28.13	28.13
126.0	75.00	53.59	41.26	34.14	29.66	26.75	24.88	23.76	23.23	23.15	23.15	23.15	23.15	23.15	23.15
132.0	68.49	46.47	35.70	29.45	25.49	22.87	21.14	20.04	19.43	19.22	19.22	19.22	19.22	19.22	19.22
138.0	59.87	40.56	31.10	25.59	22.07	19.72	18.13	17.08	16.44	16.13	16.09	16.09	16.09	16.09	16.09
144.0	52.64	35.61	27.26	22.38	19.25	17.13	15.68	14.69	14.06	13.70	13.57	13.57	13.57	13.57	13.57
150.0	46.53	31.44	24.03	19.69	16.89	14.99	13.66	12.74	12.12	11.74	11.55	11.52	11.52	11.52	11.52
156.0	41.33	27.90	21.29	17.41	14.91	13.19	11.99	11.13	10.54	10.15	9.93	9.85	9.85	9.85	9.85
162.0	36.88	24.87	18.96	15.48	13.23	11.68	10.58	9.79	9.23	8.85	8.61	8.49	8.47	8.47	8.47
168.0	33.05	22.27	16.96	13.83	11.79	10.39	9.39	8.66	8.13	7.76	7.52	7.38	7.32	7.32	7.32
174.0	29.73	20.02	15.23	12.40	10.56	9.28	8.37	7.70	7.21	6.85	6.61	6.45	6.38	6.36	6.36
180.0	26.84	18.06	13.73	11.17	9.49	8.33	7.50	6.88	6.42	6.09	5.85	5.69	5.59	5.56	5.56
186.0	24.31	16.35	12.42	10.09	8.57	7.51	6.74	6.18	5.75	5.43	5.20	5.04	4.94	4.88	4.87
192.0	22.09	14.85	11.27	9.15	7.76	6.79	6.09	5.57	5.17	4.87	4.65	4.49	4.38	4.32	4.29

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

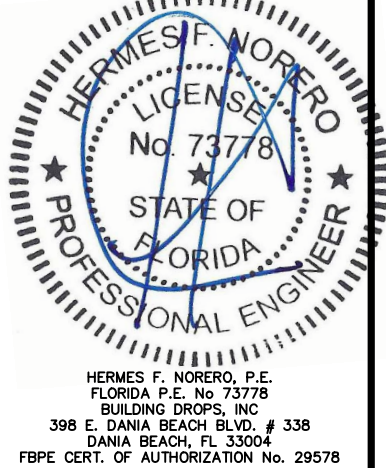
TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
2" X 5 3/16" MULLION LOADS TABLE - ONE
WAY

PREPARED BY:
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REMARKS	BY	DATE
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	8.2.19

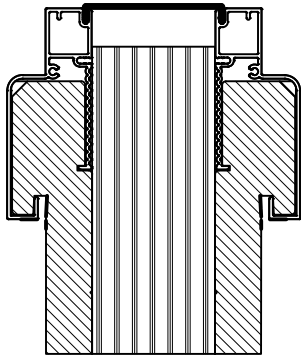
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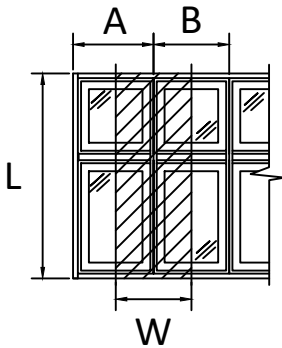
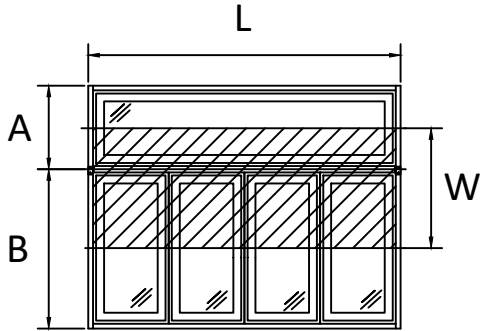
FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD229
SECTION	9.8

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	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	60.00	59.47	54.06	49.56	45.74	42.48	39.64
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	51.85	38.89	31.11	25.92	22.22	19.44	17.28	15.55	14.14	12.96	11.96	11.11	10.37	9.72
132.0	60.00	45.09	33.82	27.06	22.55	19.33	16.91	15.03	13.53	12.30	11.27	10.41	9.66	9.02	8.46
138.0	59.20	39.46	29.60	23.68	19.73	16.91	14.80	13.15	11.84	10.76	9.87	9.11	8.46	7.89	7.40
144.0	52.10	34.73	26.05	20.84	17.37	14.89	13.03	11.58	10.42	9.47	8.68	8.02	7.44	6.95	6.51
150.0	46.10	30.73	23.05	18.44	15.37	13.17	11.52	10.24	9.22	8.38	7.68	7.09	6.59	6.15	5.76
156.0	40.98	27.32	20.49	16.39	13.66	11.71	10.24	9.11	8.20	7.45	6.83	6.30	5.85	5.46	5.12
162.0	36.59	24.39	18.30	14.64	12.20	10.45	9.15	8.13	7.32	6.65	6.10	5.63	5.23	4.88	4.57
168.0	32.81	21.87	16.40	13.12	10.94	9.37	8.20	7.29	6.56	5.97	5.47	5.05	4.69	4.37	4.10
174.0	29.53	19.69	14.77	11.81	9.84	8.44	7.38	6.56	5.91	5.37	4.92	4.54	4.22	3.94	3.69
180.0	26.68	17.78	13.34	10.67	8.89	7.62	6.67	5.93	5.34	4.85	4.45	4.10	3.81	3.56	3.33
186.0	24.18	16.12	12.09	9.67	8.06	6.91	6.04	5.37	4.84	4.40	4.03	3.72	3.45	3.22	3.02
192.0	21.98	14.65	10.99	8.79	7.33	6.28	5.49	4.88	4.40	4.00	3.66	3.38	3.14	2.93	2.75

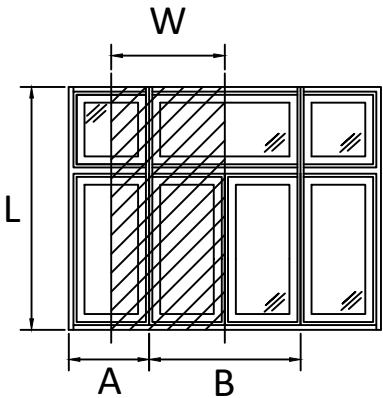
- NOTE:**
- 1) MULLION CHART APPLIES TO 2" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF 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.



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

TITLE:
E-SERIES HINGED PATIO
DOOR - INSWING
(NON IMPACT) (NON HVHZ)
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
TEST STANDARDS UPDATE	HR	7.2.18
1/2" LVL MULL ADDITION	HR	4.11.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	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.

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

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
99
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