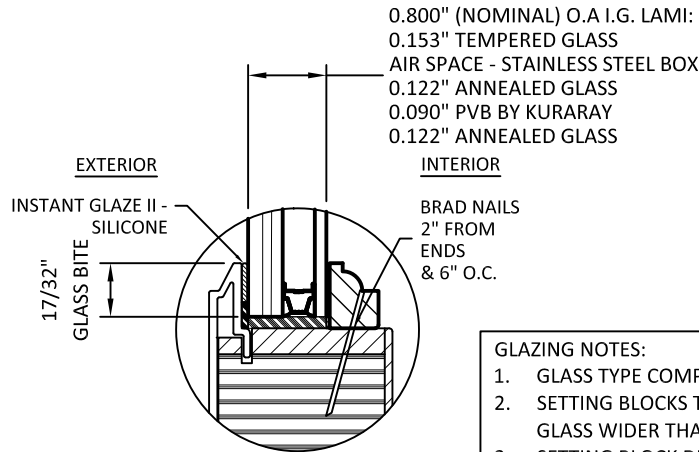


ANDERSEN CORPORATION

E-SERIES HINGED PATIO DOOR - INSWING (WZ3) (IMPACT)

GENERAL NOTES:

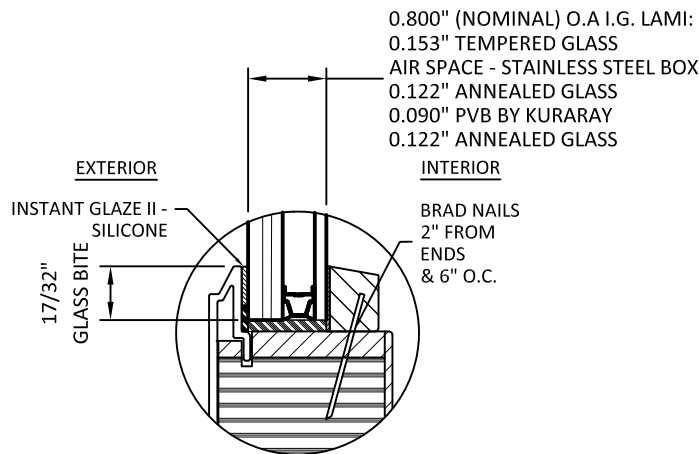
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ASTM E1886-19
 - ASTM E1996-20
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 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.
- 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- DOOR FRAME MATERIAL, CLADDING : ALUMINUM
WOOD: PONDEROSA PINE
- MULLION MATERIAL: LAMINATED VENEER LUMBER
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE GLAZING DETAILS ON SHEET 1.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
- 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:**
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - GLASS TYPE COMPLIES WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC

GLASS STOP PROFILES ARE INTERCHANGEABLE



GLAZING DETAIL - G2
SHOWN WITH CONTEMPORARY GLASS STOP

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



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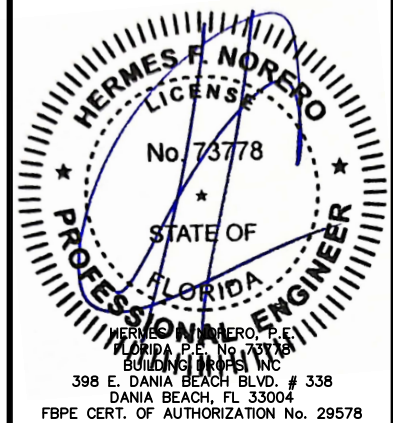
TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(IMPACT)

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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

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FL #: **FL25570**

DATE: **9.05.17**

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

SCALE: **NTS**

DWG. #: **AWD156**

SECTION
1.0
[PAGE 1 of 24]

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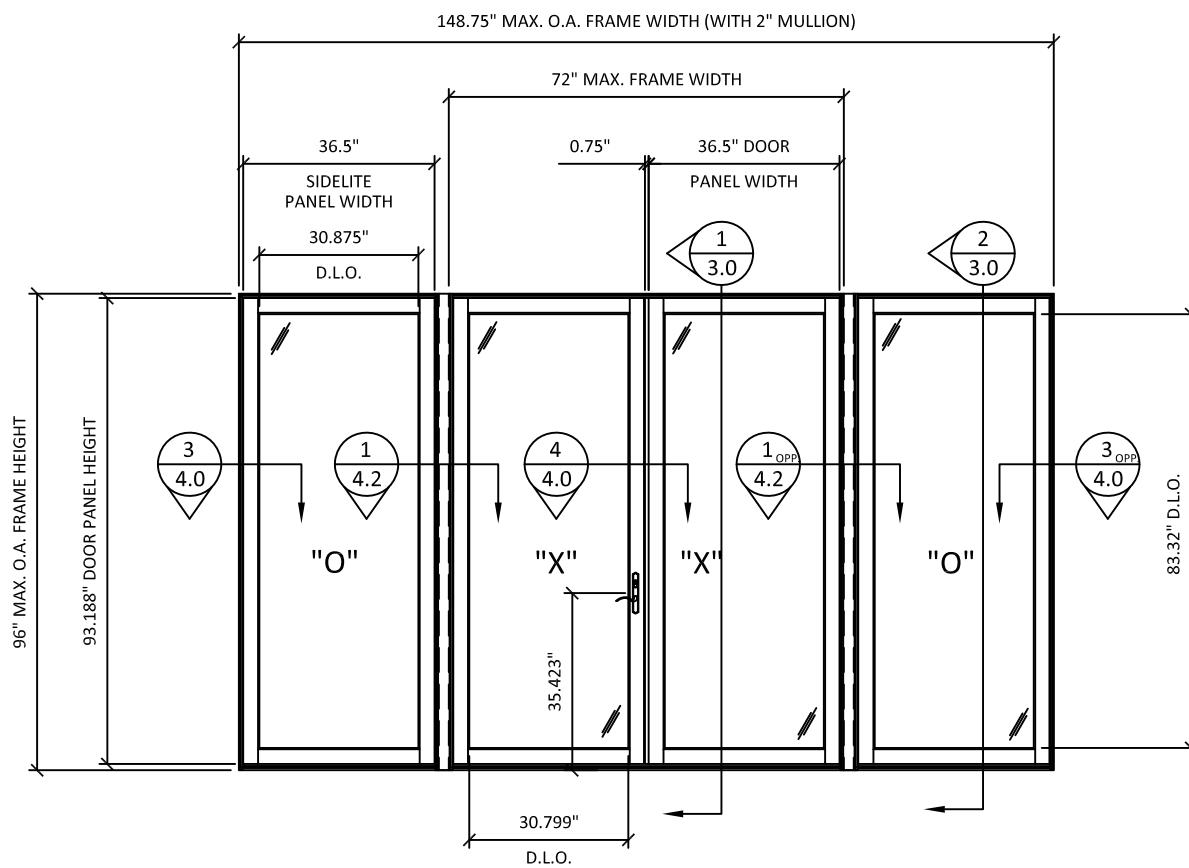


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TITLE:
E-SERIES HINGED PATIO DOOR - INSWING
(WZ3)(IMPACT)

ELEVATIONS & CONFIGURATIONS

PREPARED BY:
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ELEVATION
INSWING DOOR WITH 2" MULLION

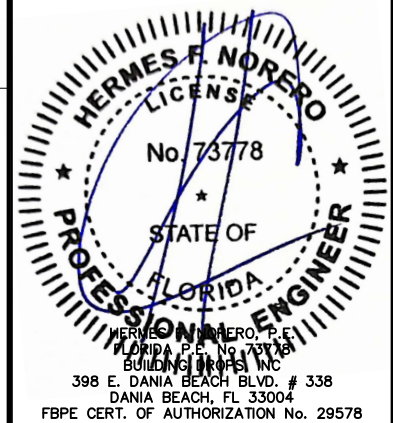
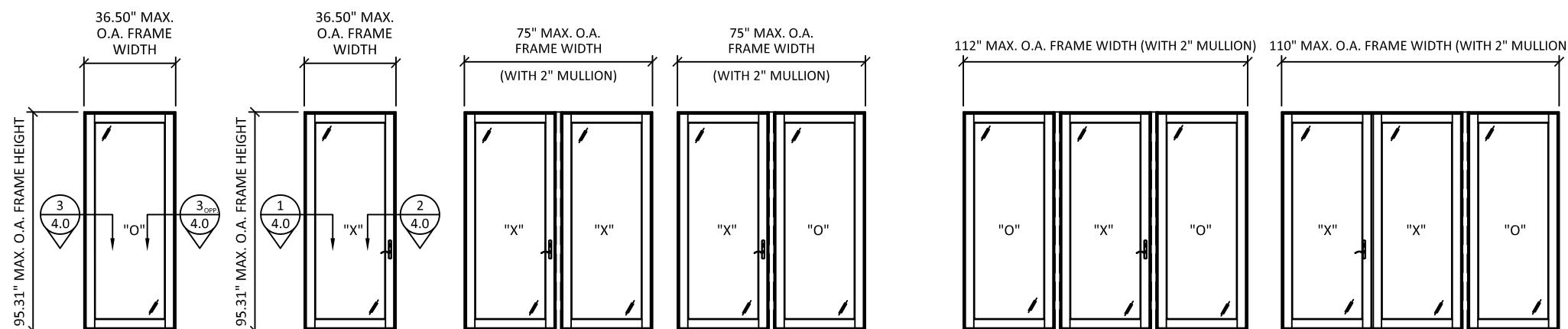
CONFIGURATION	WIDTH	HEIGHT	PANEL TYPE	PG RATING	STRUCTURAL DESIGN PRESSURE
X OR O	36	96	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3, SL1, SL2, SL1R1, SL1R2, SL2R3, SL1M1, SL1M2, SL2M1, SL2M2, SL2M3	PG45	+50 / -65
XX	72	96	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG40	+50 / -65
O	72	36	ST1, ST2, ST3, ST4, ST5	PG65	+/-65

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: 9.05.17

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

SCALE: NTS

DWG. #: AWD156

SECTION
2.0
[PAGE 2 of 24]

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TITLE:
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(WZ3)/(IMPACT)

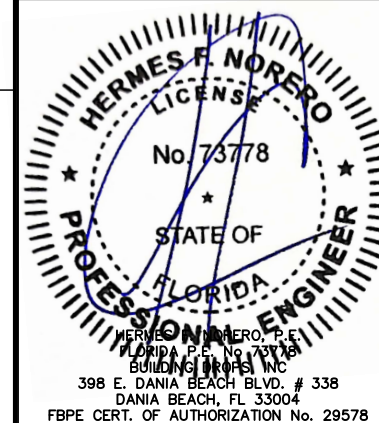
ELEVATIONS & CONFIGURATIONS

PREPARED BY:
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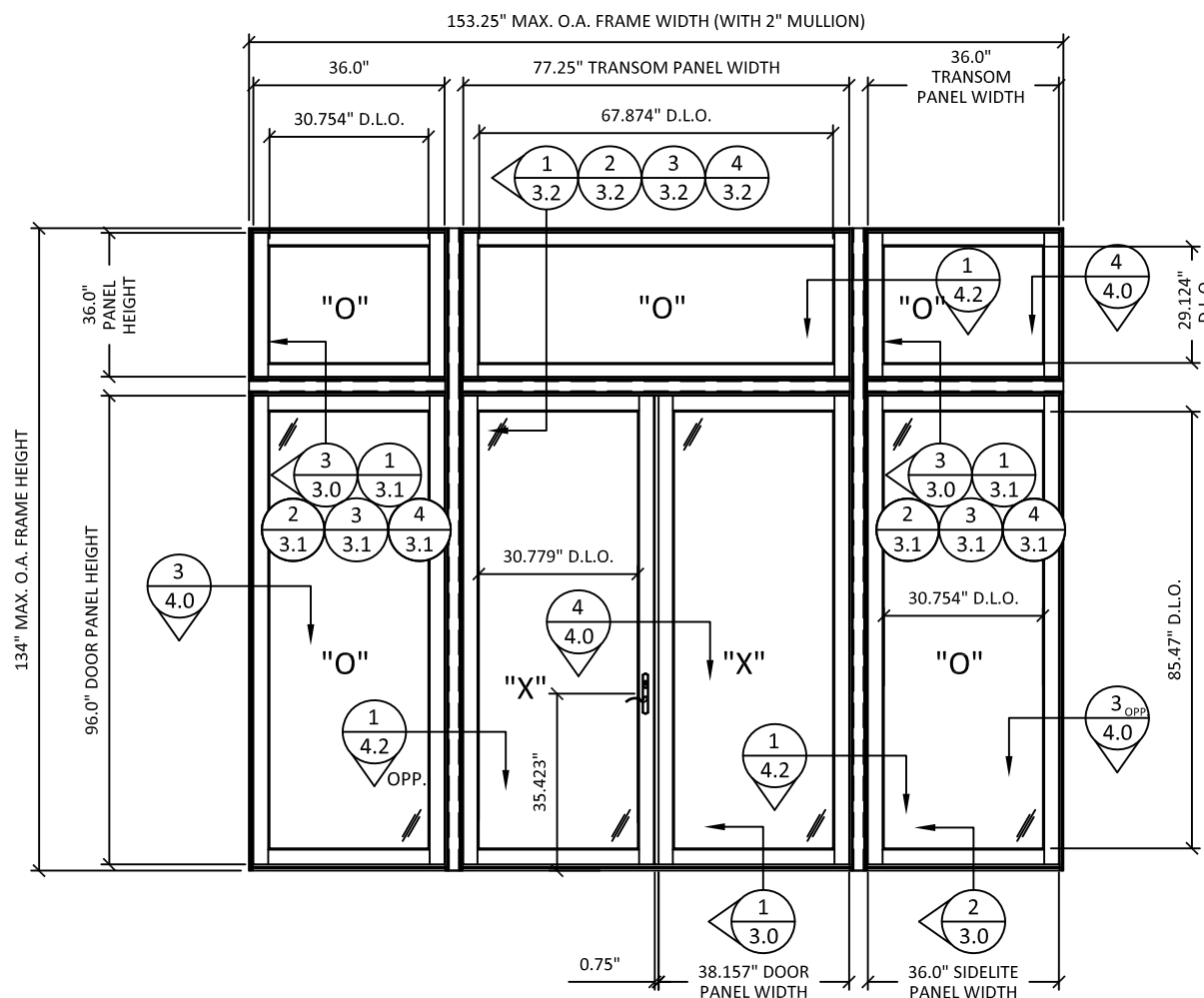
SCALE: **NTS**

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SECTION

2.1

[PAGE 3 of 24]

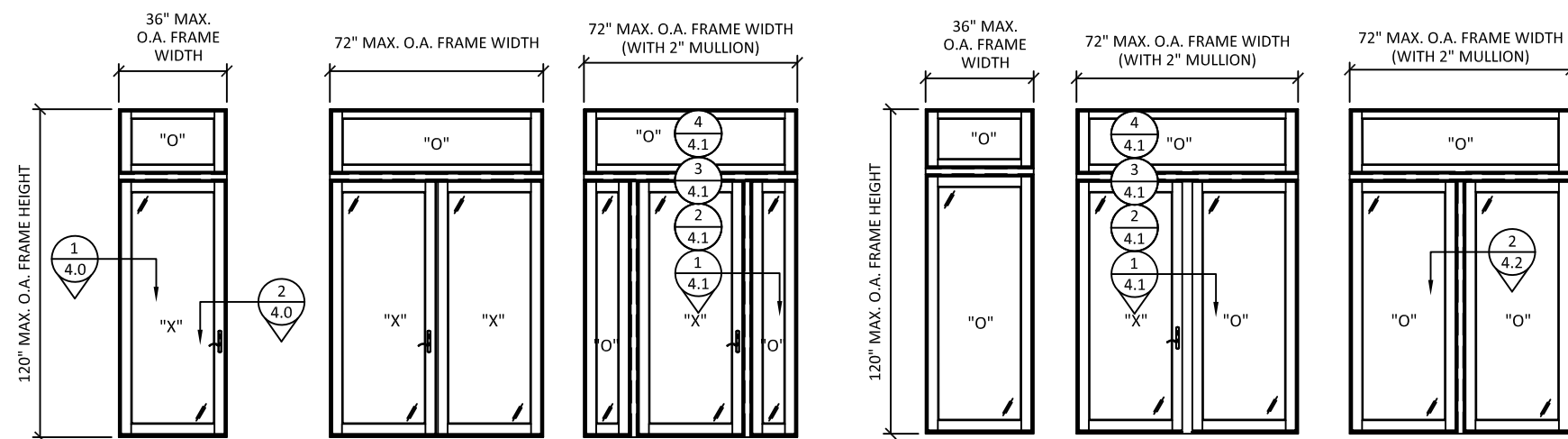


ELEVATION

INSWING DOOR WITH TRANSOM & 2" MULLION

NOTE:
1. REFER TO SHEET 2.0 & SECTION 9 FOR CONFIGURATIONS, PANEL TYPES & DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES.

OTHER QUALIFIED CONFIGURATIONS



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E-SERIES HINGED PATIO DOOR - INSWING
(WZ3)/(IMPACT)

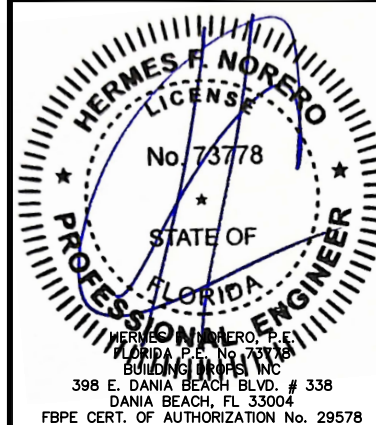
VERTICAL SECTIONS

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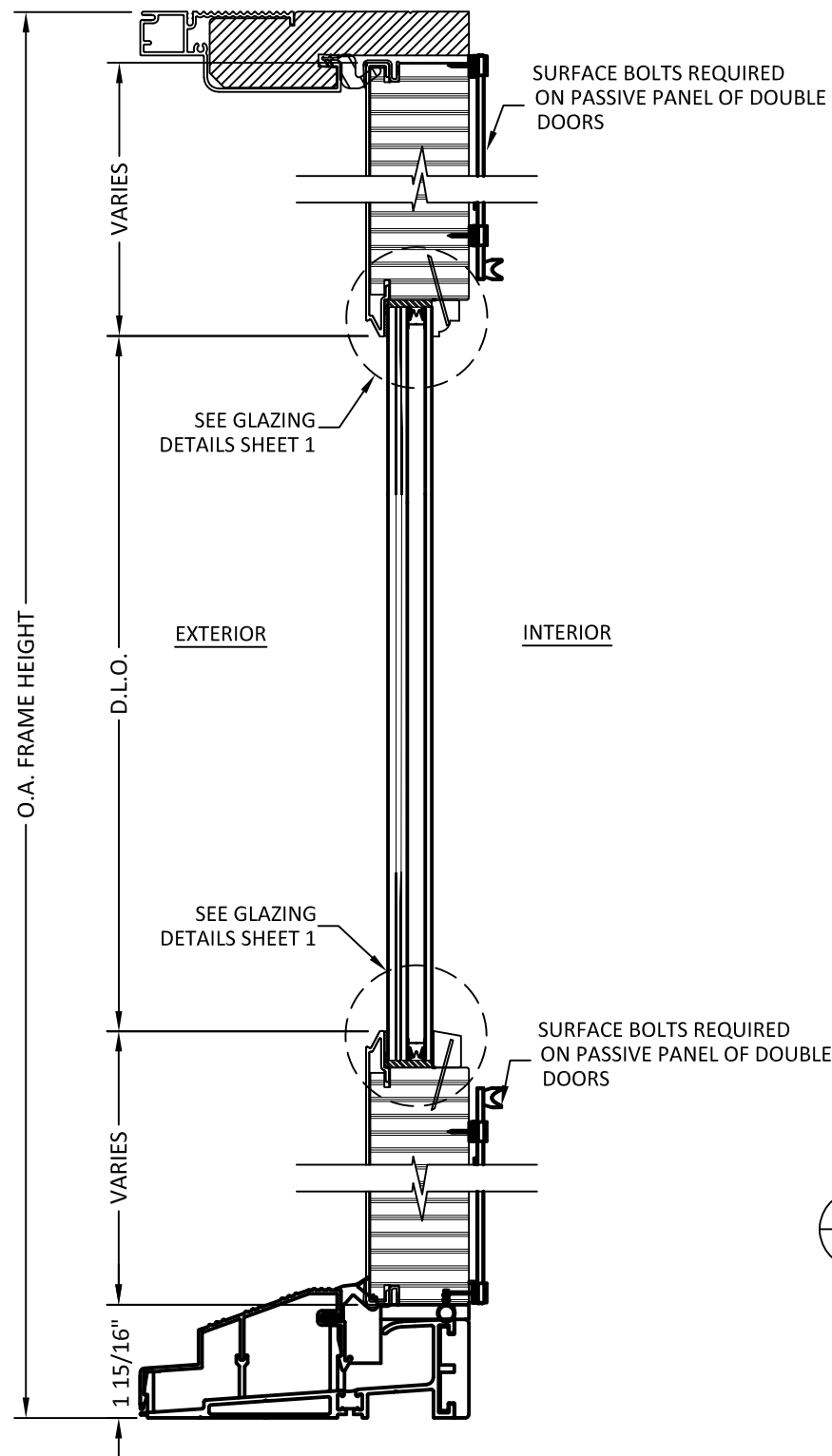
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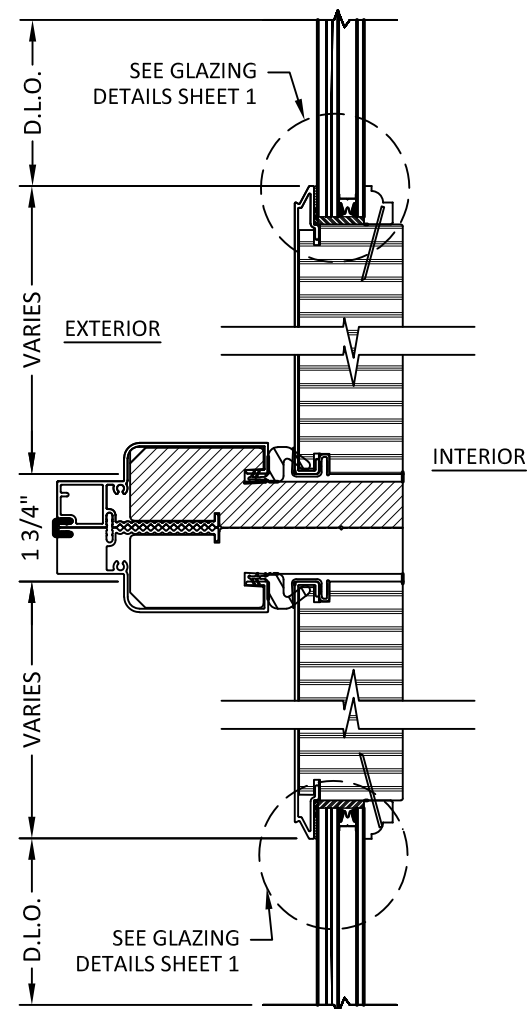
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3.0

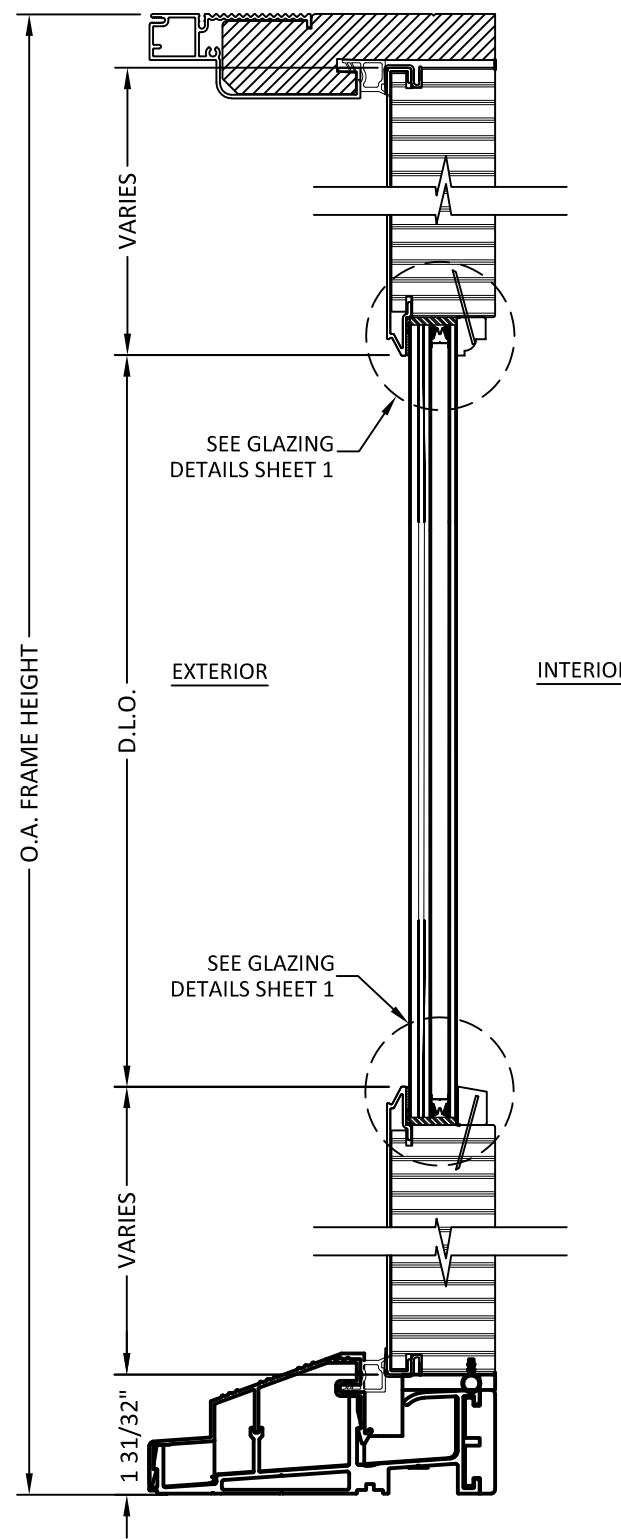
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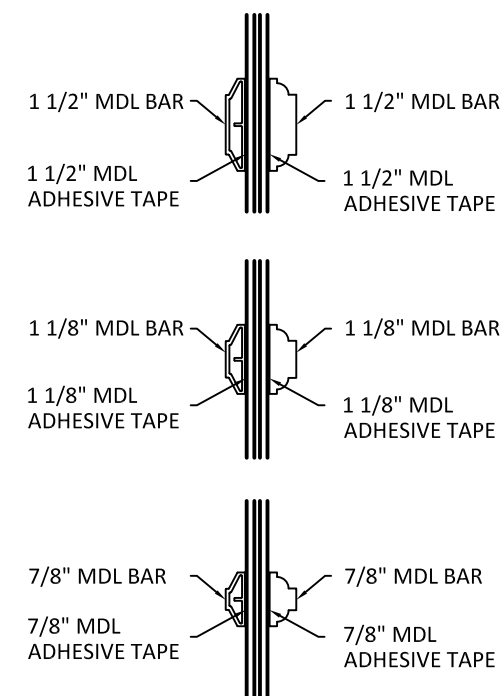
1
3.0 VERTICAL SECTION
FULL GLAZED PANEL



3
3.0 VERTICAL SECTION
INSULATED GLASS
ZERO MULLION



2
3.0 VERTICAL SECTION
FULL GLAZED SIDELITE



OPTIONAL MUNTIN BAR
ATTACHMENT TO GLASS



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TITLE:
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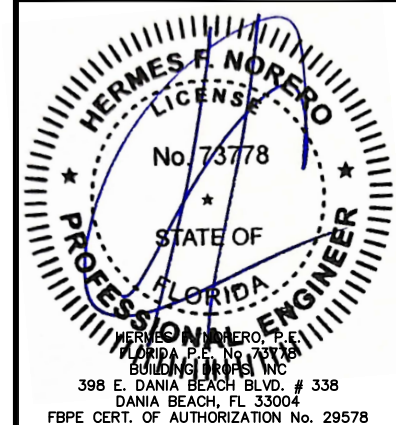
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DWG. BY:
RV

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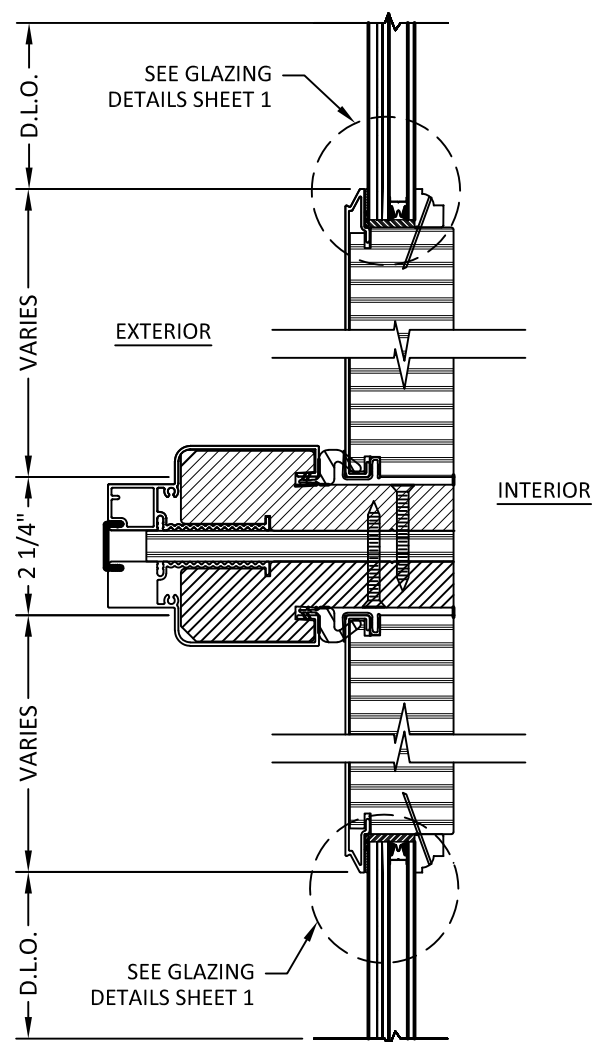
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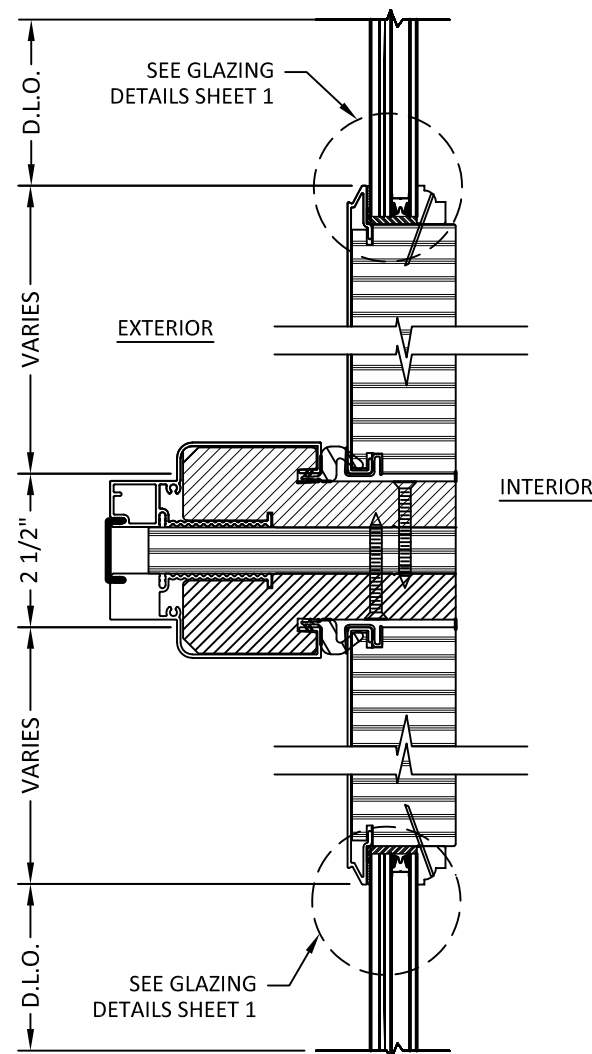
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3.1

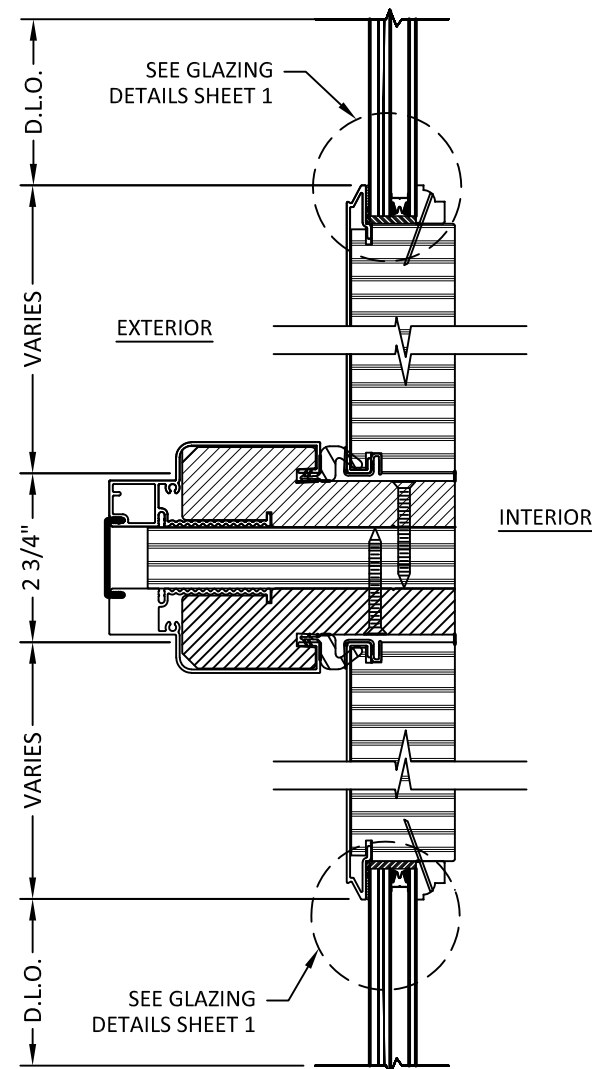
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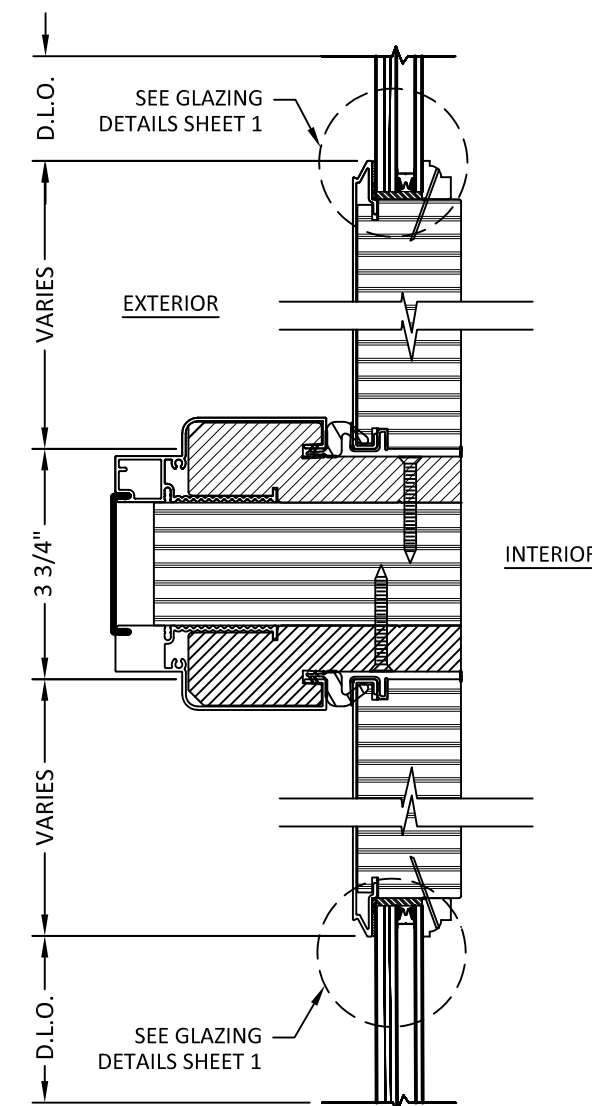
1
3.1 **VERTICAL SECTION**
INSULATED GLASS
1/2" X 5-3/16" MULLION



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



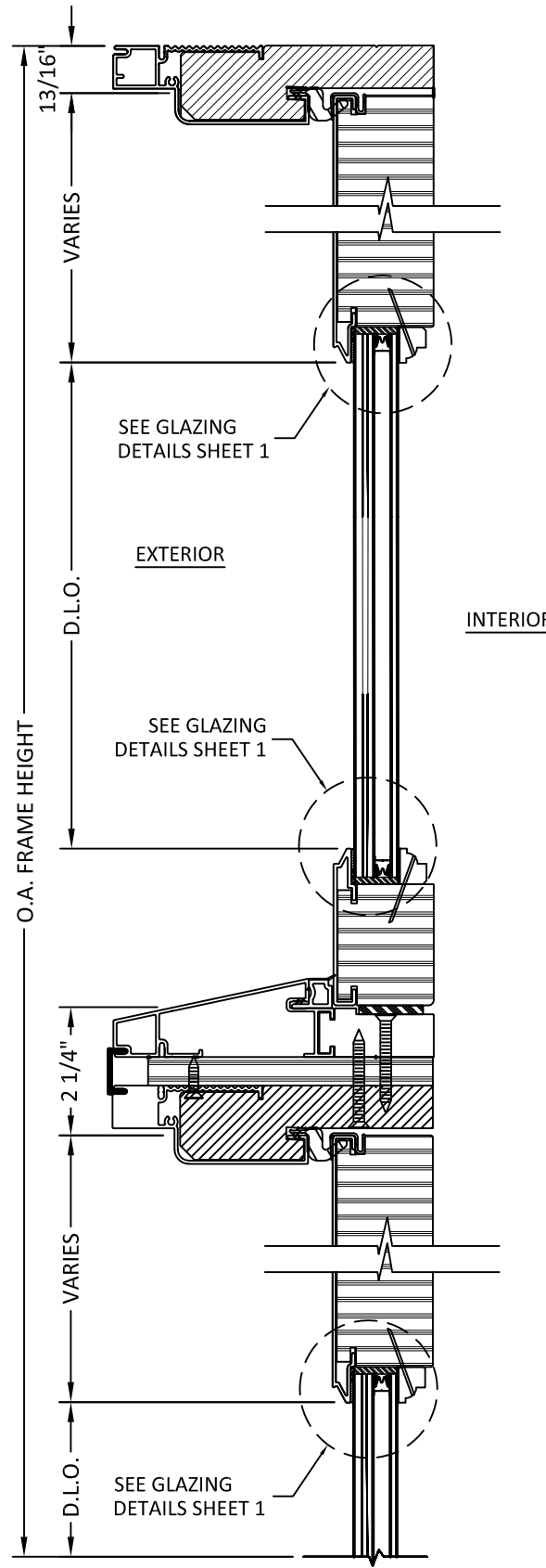
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3.1 **VERTICAL SECTION**
INSULATED GLASS
1" X 5-3/16" MULLION



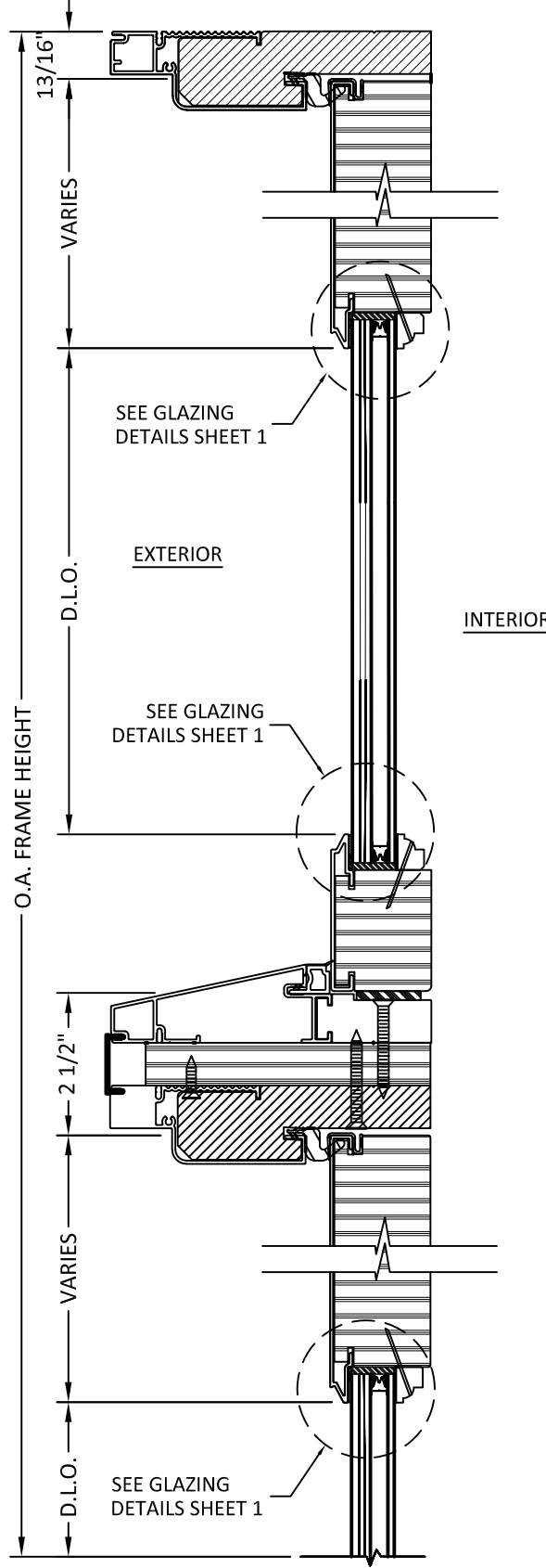
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3.1 **VERTICAL SECTION**
INSULATED GLASS
2" X 5-3/16" MULLION

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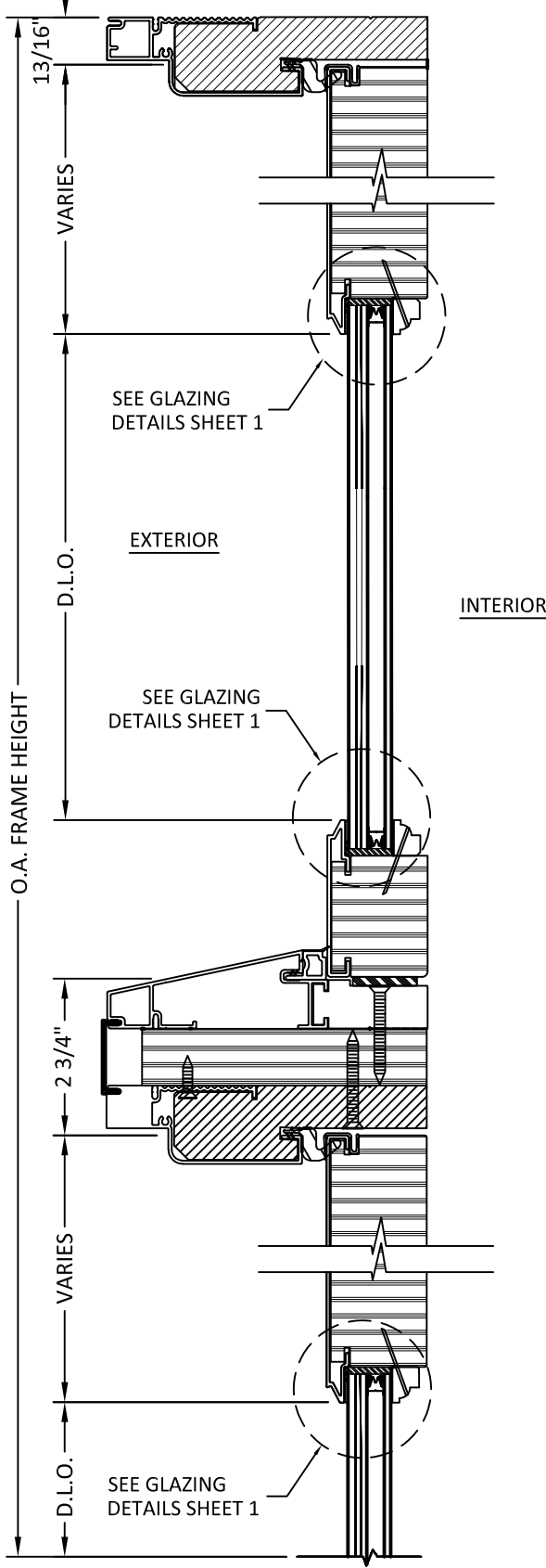
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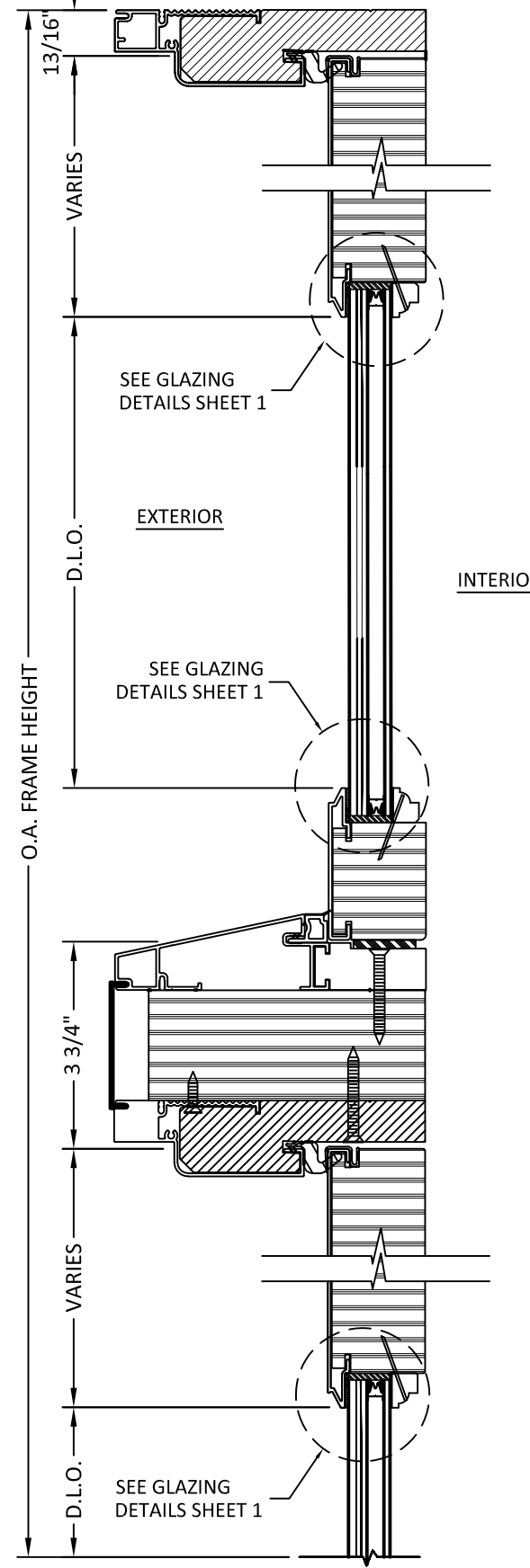
1
3.2 VERTICAL SECTION
TRANSOM
1/2" X 5 3/16" LVL MULLION



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

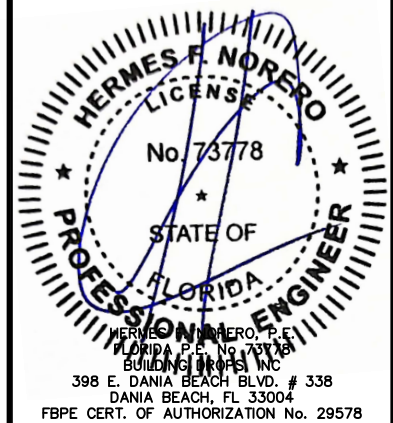


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TITLE: E-SERIES HINGED PATIO DOOR - IN-SWING (WZ3)(IMPACT)
VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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PH: (954) 399-8478
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HERMES 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: **9.05.17**

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

DWG. #: **AWD156**

SECTION
3.2
[PAGE 6 of 24]

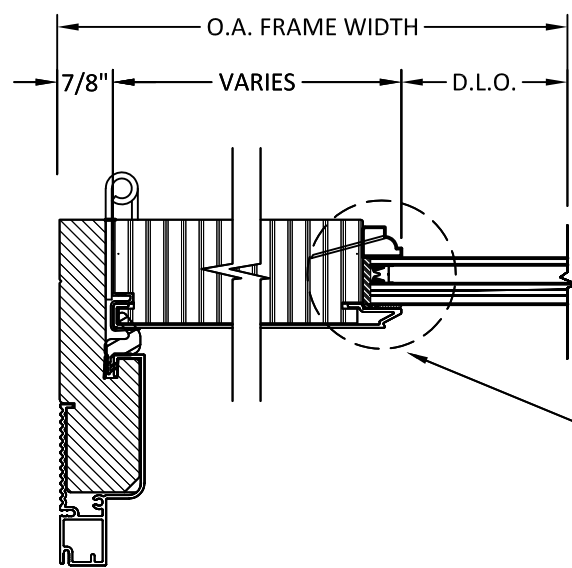


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TITLE:
E-SERIES HINGED PATIO DOOR - INSWING
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HORIZONTAL SECTIONS

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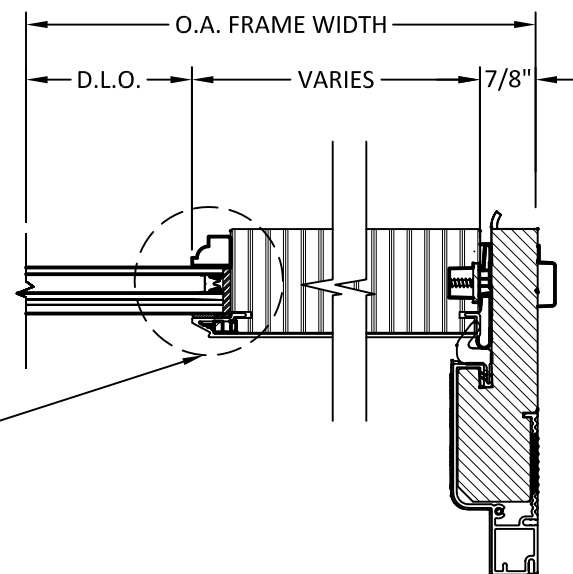


INTERIOR

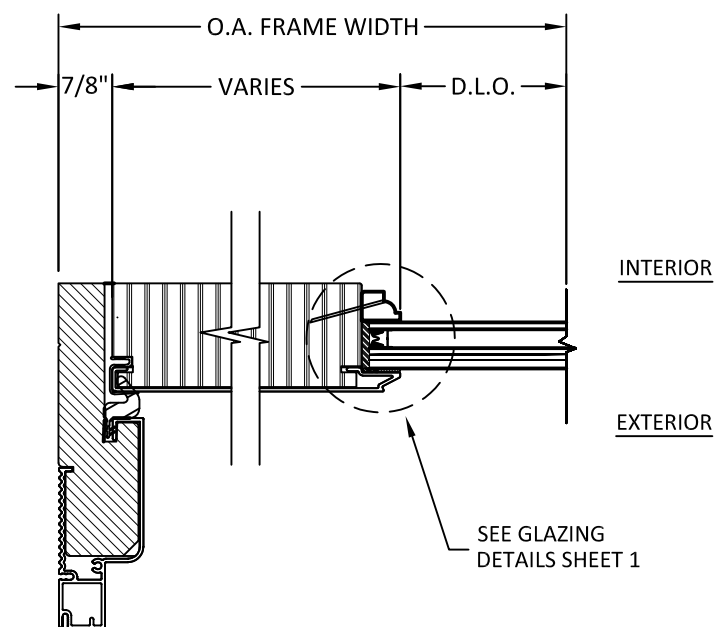
EXTERIOR

SEE GLAZING
DETAILS SHEET 1

1 HORIZONTAL SECTION
4.0 HINGE JAMB



2 HORIZONTAL SECTION
4.0 LOCK JAMB

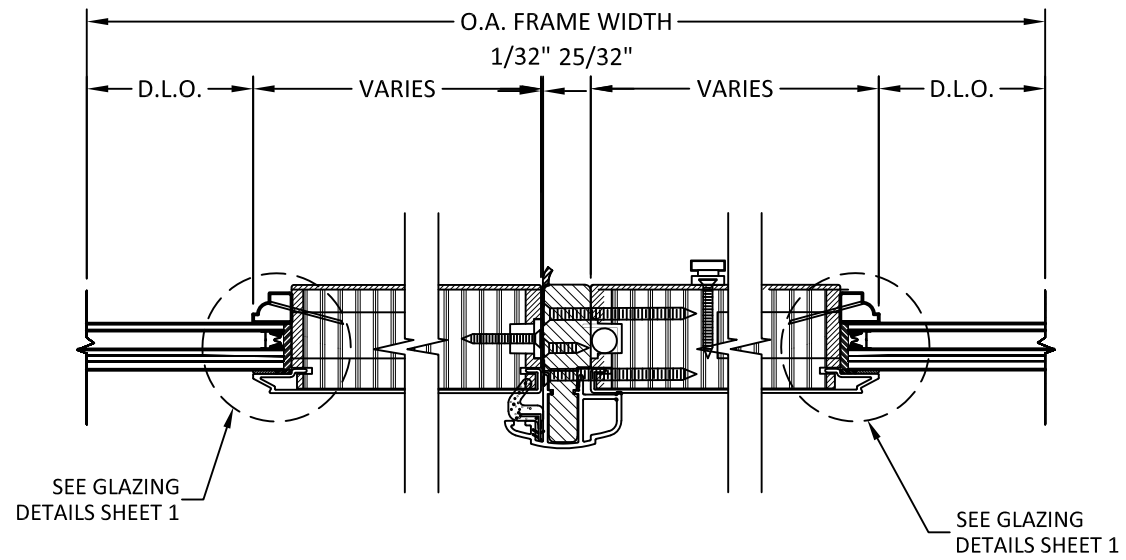


INTERIOR

EXTERIOR

SEE GLAZING
DETAILS SHEET 1

3 HORIZONTAL SECTION
4.0 SIDELITE JAMB



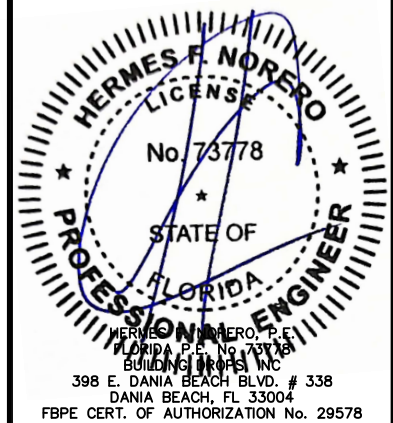
SEE GLAZING
DETAILS SHEET 1

SEE GLAZING
DETAILS SHEET 1

4 HORIZONTAL SECTION
4.0 ASTRAGAL

REMARKS	BY	DATE
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SCALE: **NTS**

DWG. #: **AWD156**

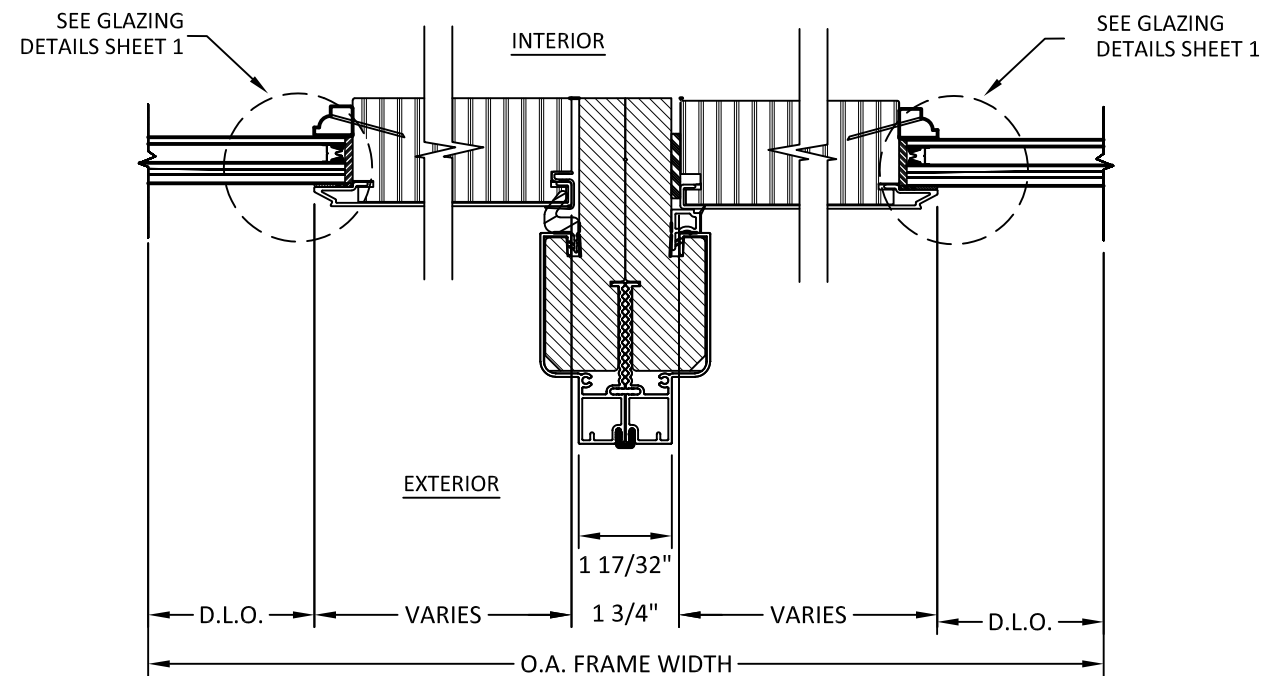
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4.0
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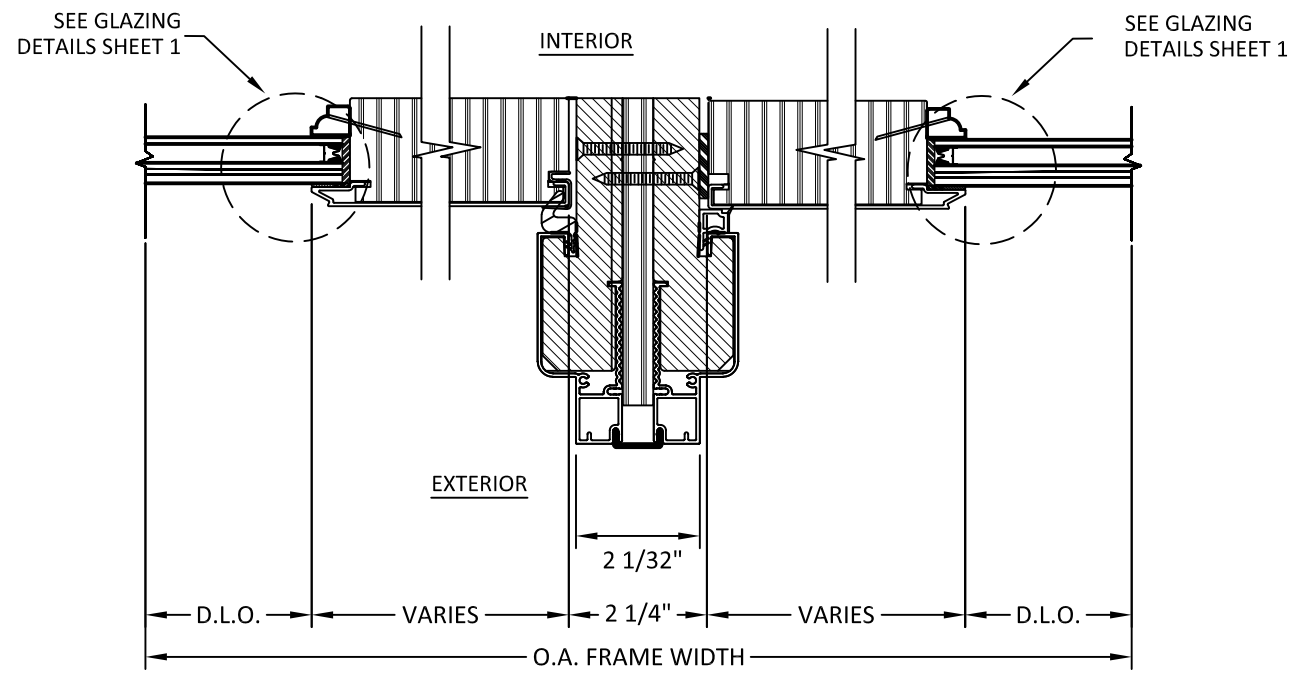
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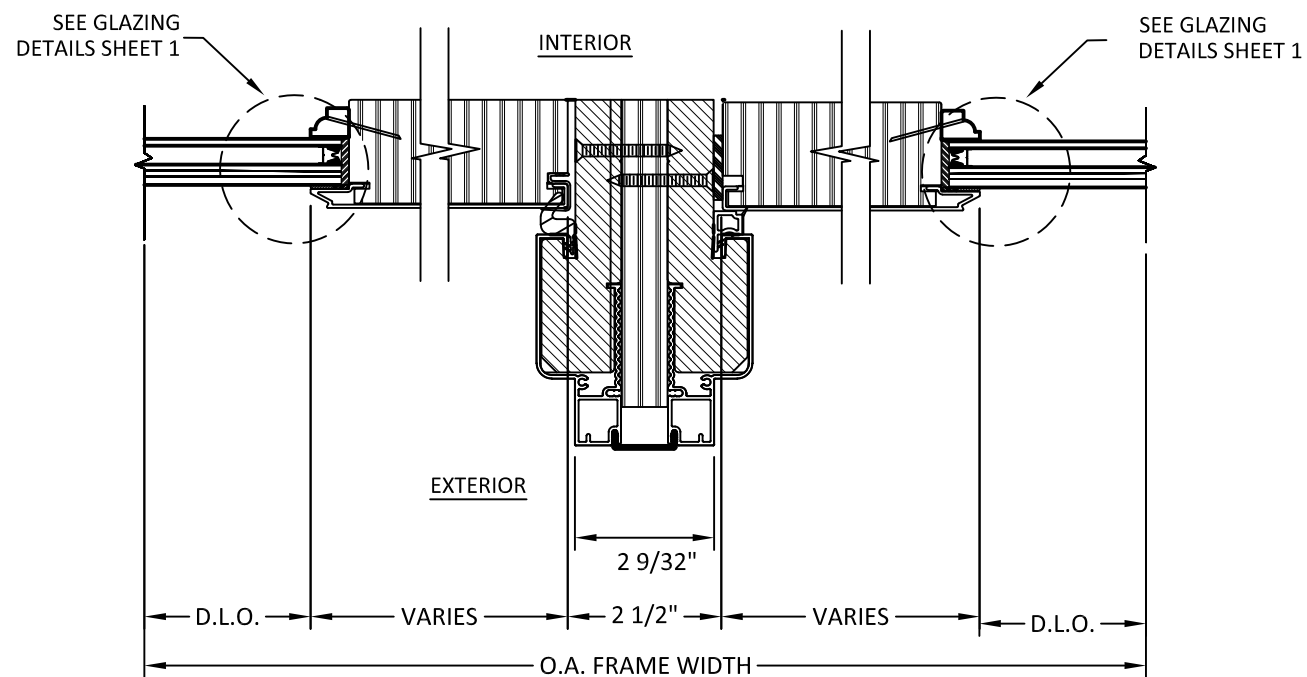
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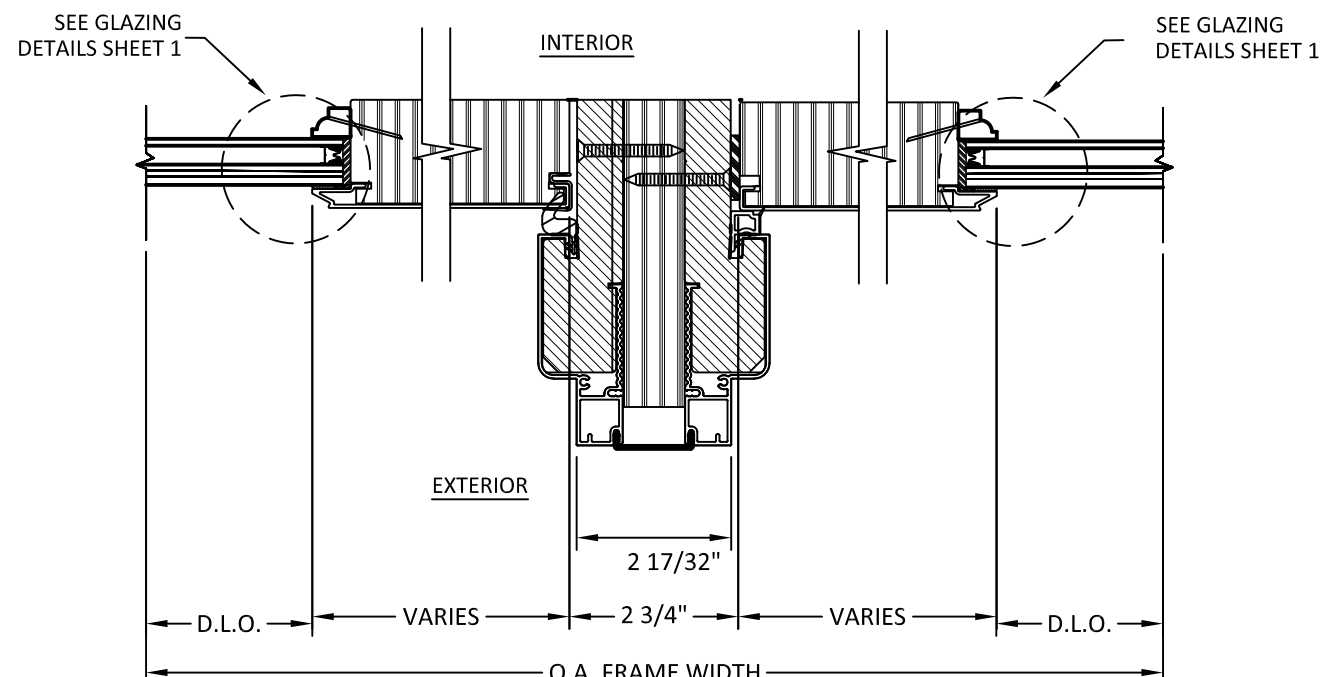
1 HORIZONTAL SECTION
4.1 ZERO MULLION
 OPERABLE TO FIXED



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

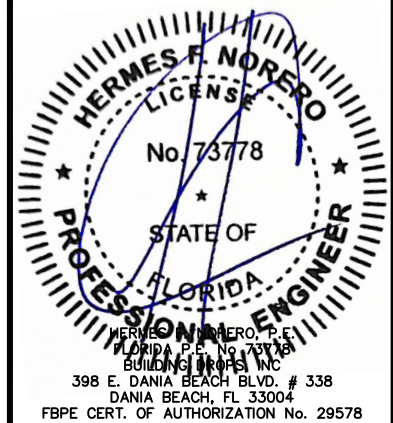


100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

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FL #: **FL25570**

DATE: **9.05.17**

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

SCALE: **NTS**

DWG. #: **AWD156**

SECTION **4.1**

[PAGE 8 of 24]



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TITLE:
E-SERIES HINGED PATIO DOOR - IN-SWING
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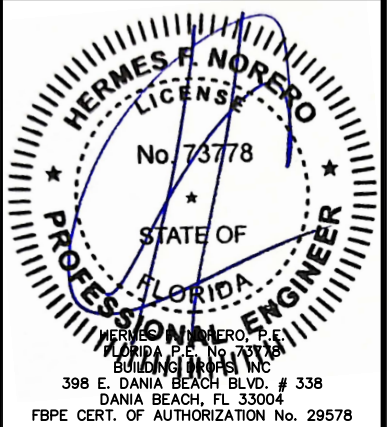
HORIZONTAL SECTIONS

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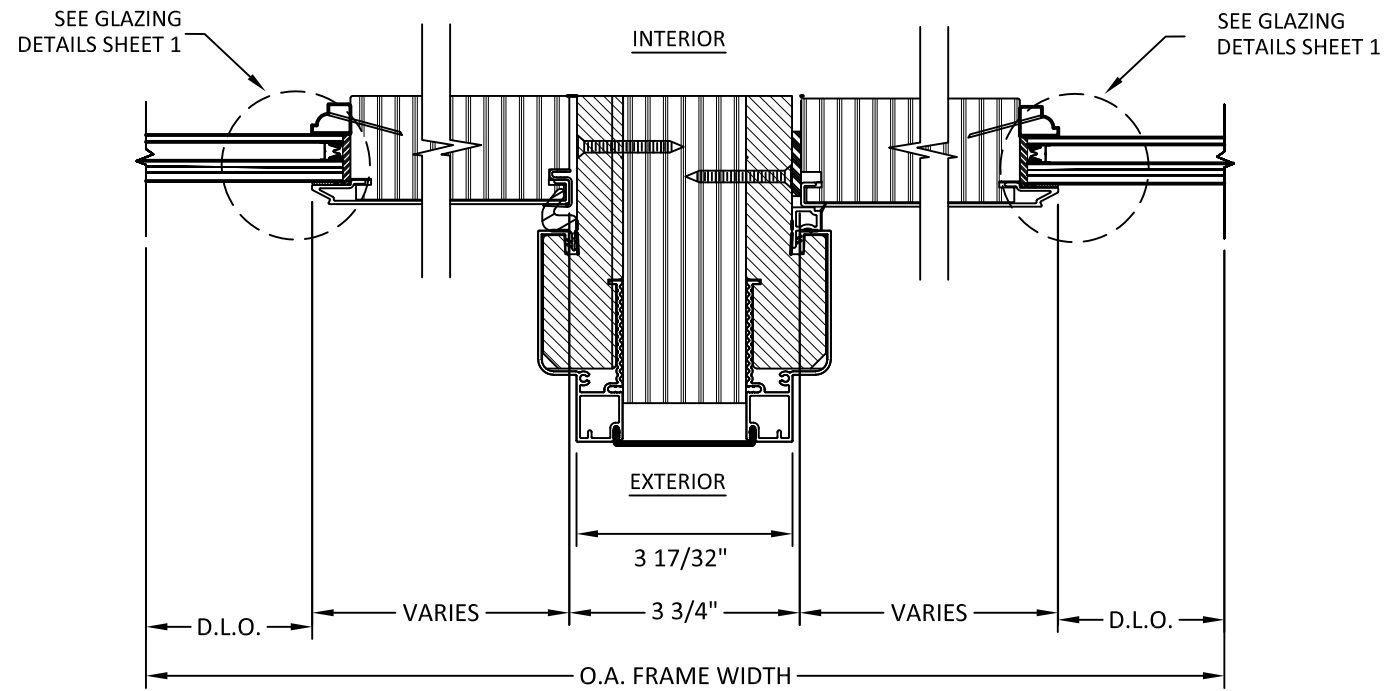
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SCALE: **NTS**

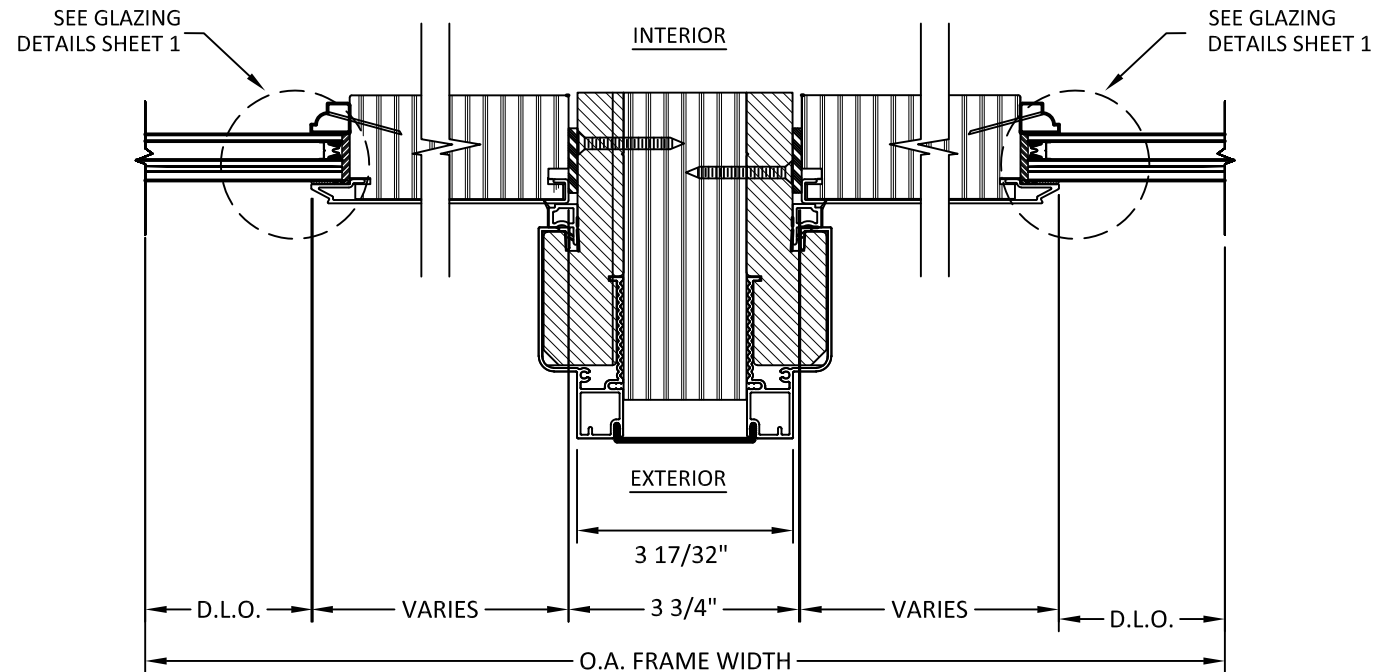
DWG. #: **AWD156**

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

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

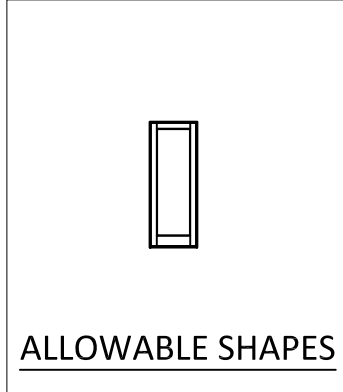
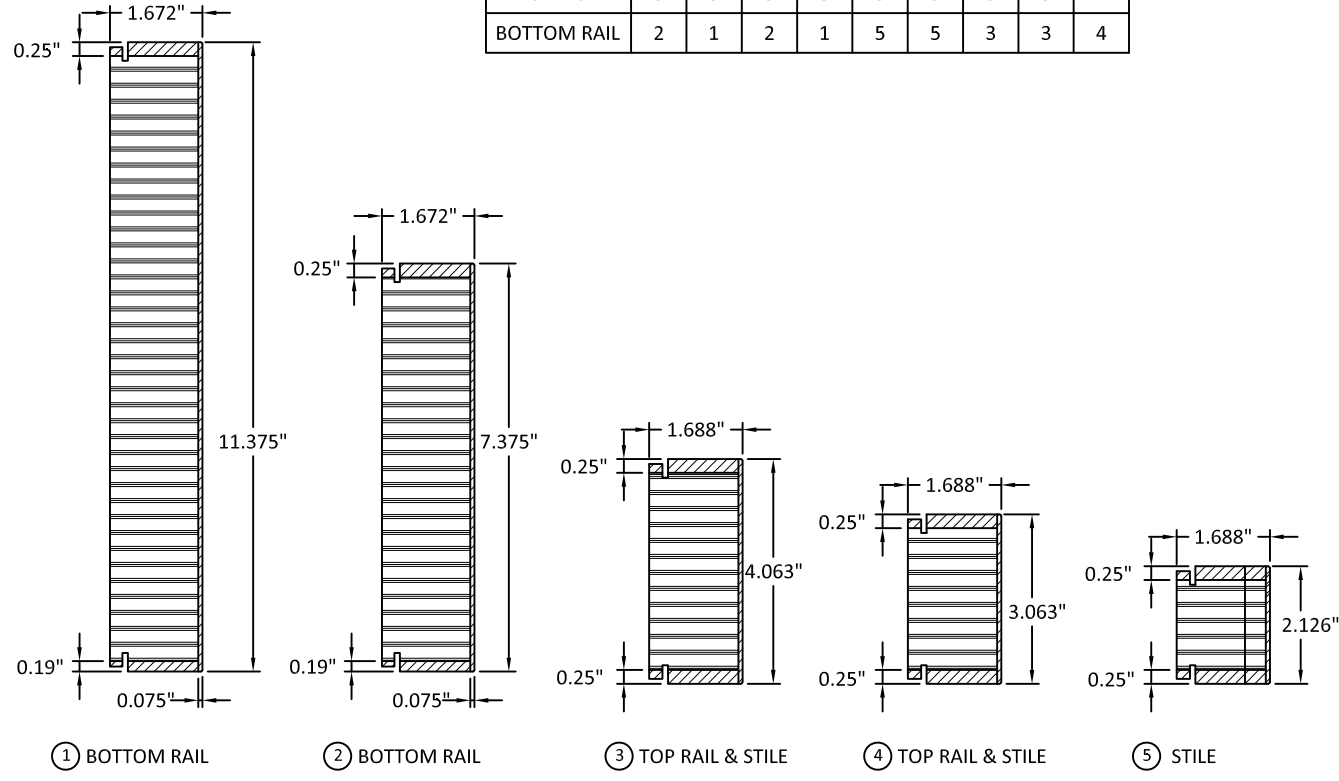
SL1M2: 2 3/4" STILES & 4 11/16" TOP RAIL 8" BOTTOM RAIL & MID-RAIL

SL2M1: 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	SL1	SL2	ST1	ST2	ST3	ST4	ST5
TOP RAIL	3	3	3	3	5	5	3	3	4
STILES	3	3	5	5	3	5	3	5	4
BOTTOM RAIL	2	1	2	1	5	5	3	3	4



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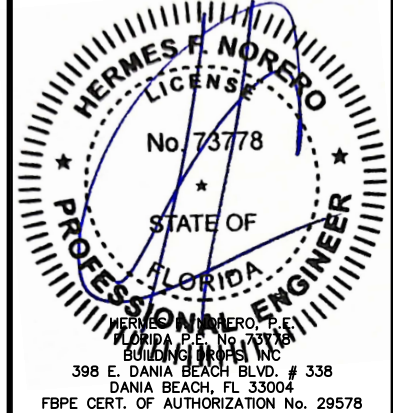
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PANELS & SIDELITES DETAILS

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SCALE: **NTS**

DWG. #: **AWD156**

SECTION **5.0**

[PAGE 10 of 24]



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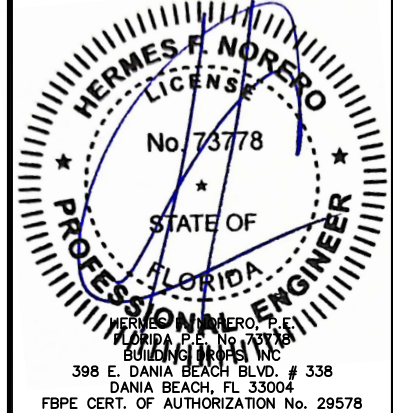
TITLE:
E-SERIES HINGED PATIO DOOR - INSWING
(WZ3)/(IMPACT)

HARDWARE LOCATIONS

PREPARED BY:
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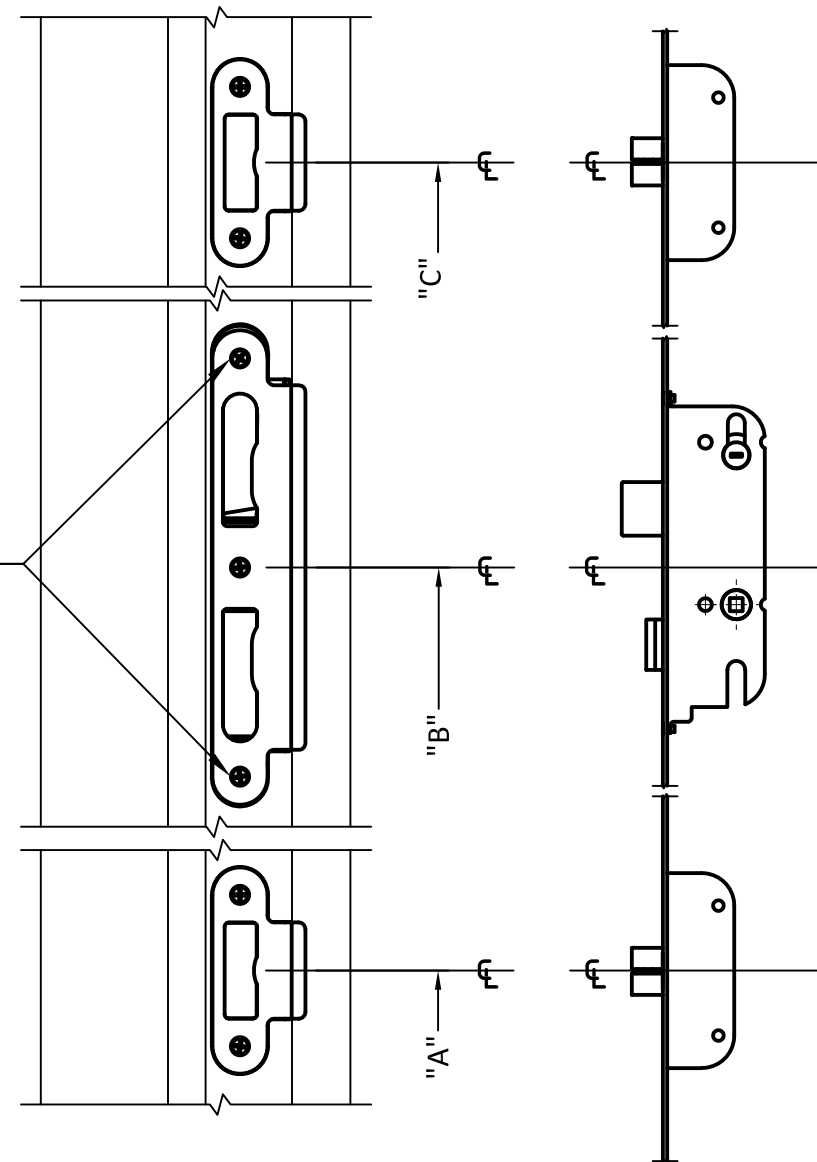
DWG. #: **AWD156**

SECTION

6.0

[PAGE 11 of 24]

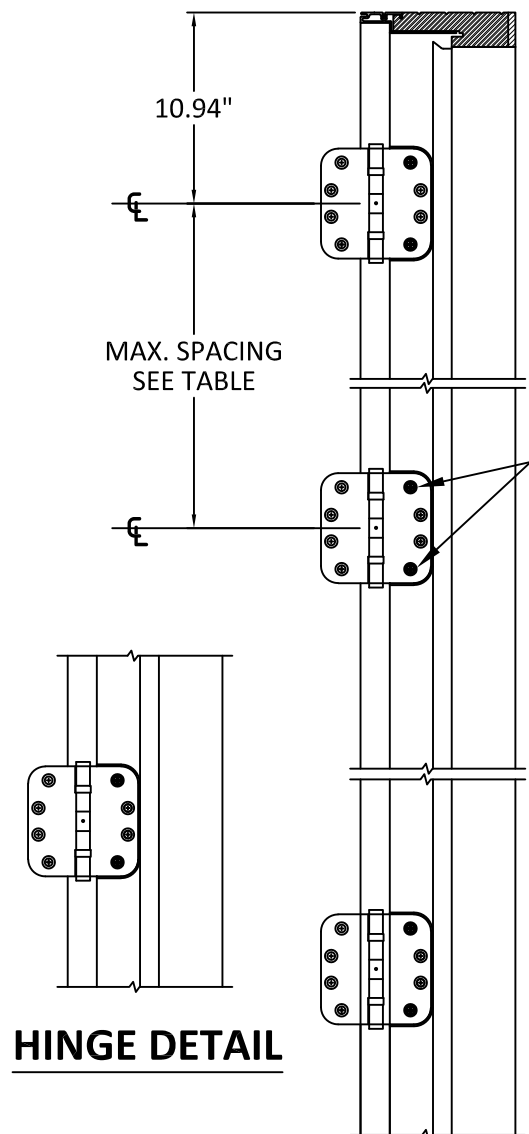
**STRIKE LOCATION
USE #8 SCREW TYP.**



**STRIKE PLATE LOCATIONS
@ ASTRAGAL/JAMB**

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

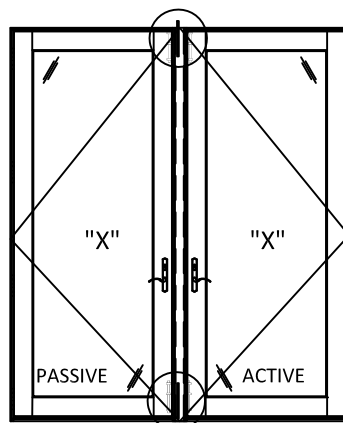
**HINGE LOCATIONS
USE #12 SCREW TYP.**



HINGE DETAIL

(2) INSTALLATION ANCHORS. SEE TABLE IN SECTION 8
SEE ANCHOR TABLE SECTION 8

NOTES:
1. SURFACE BOLTS REQUIRED ON IMPACT DOUBLE UNITS



AW HARDWARE

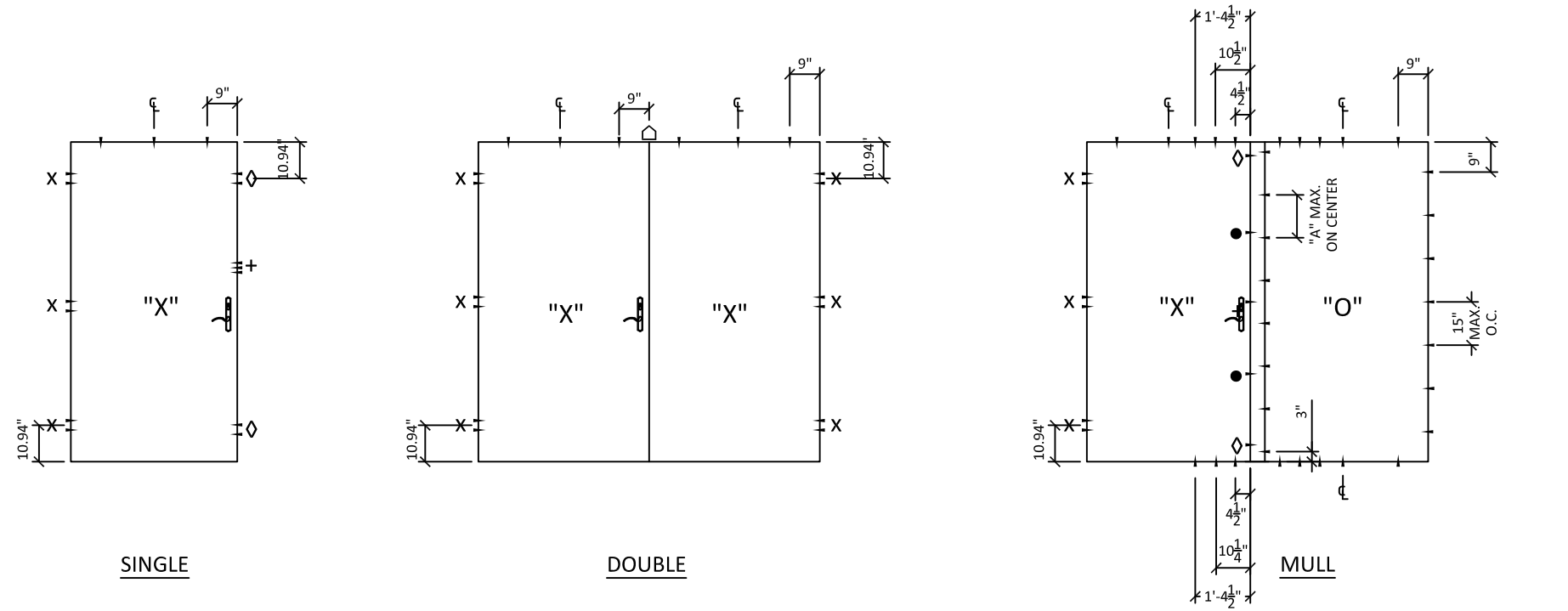
ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 105MM LOCK TO HANDLE SPACING, 50 MM LOCK/HANDLE BACKSET.

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

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

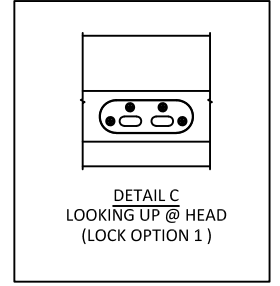
HINGE LOCATIONS		
FRAME OPENING HEIGHT	ACTUAL DOOR HEIGHT	MAX. HINGE SPACING (CENTER TO CENTER)
80.5"	80"	28.52"
84.5"	84"	30.52"
96.5"	96"	24.35"

ANCHOR LAYOUT

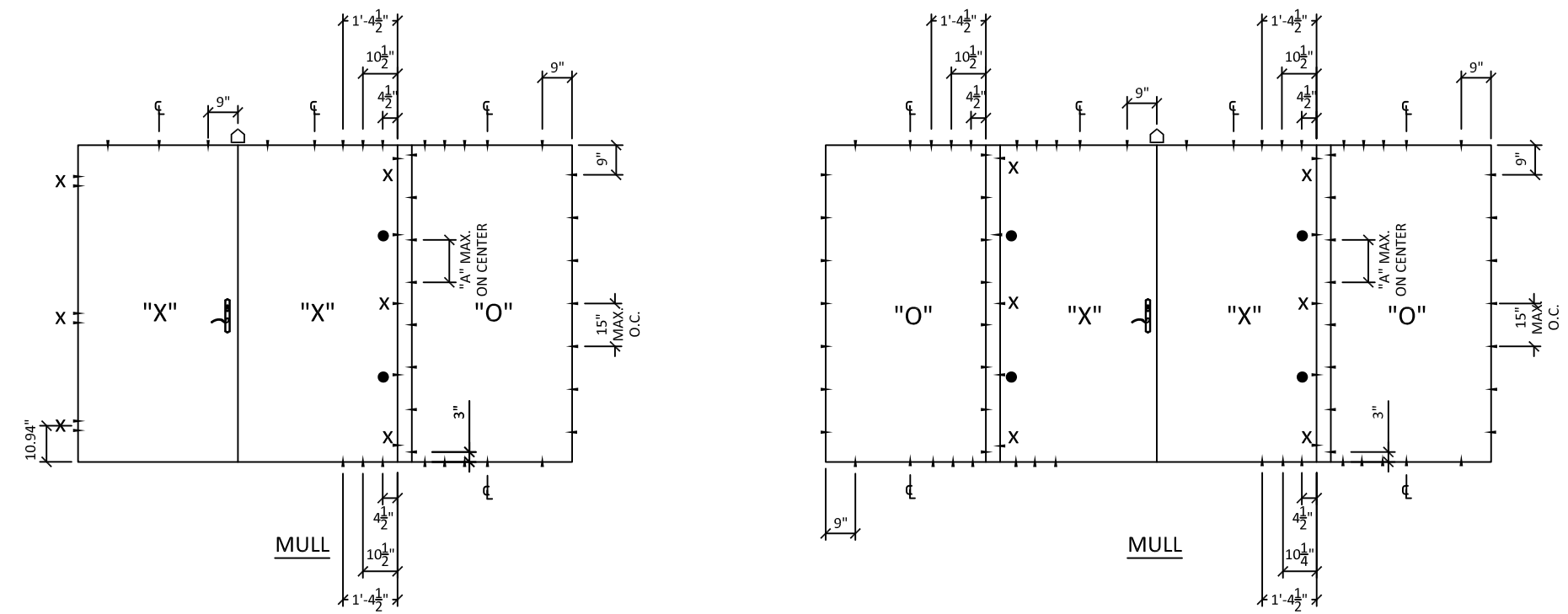


ACTIVE DOOR LEGEND "X"	
X	TWO (2) ANCHOR THRU HINGE PLATE
◇	ANCHORS THRU END RECEIVER - WOOD OR METAL: THREE (3) - CONCRETE / MASONRY: TWO (2)
+	ANCHORS THRU CENTER RECEIVER - WOOD OR STEEL: THREE (3) - CONCRETE / MASONRY: TWO (2)
🏠	ANCHORS THRU STRIKE HEAD PLATE: DETAIL C: - WOOD OR STEEL: FOUR (4) - 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	7.5" MAX. O.C.



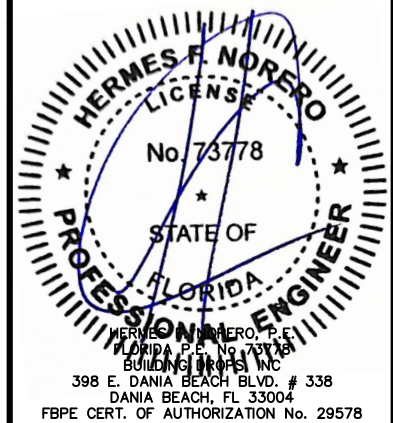
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TITLE:
E-SERIES HINGED PATIO DOOR - IN-SWING
(WZ3)(IMPACT)
ANCHOR LAYOUTS

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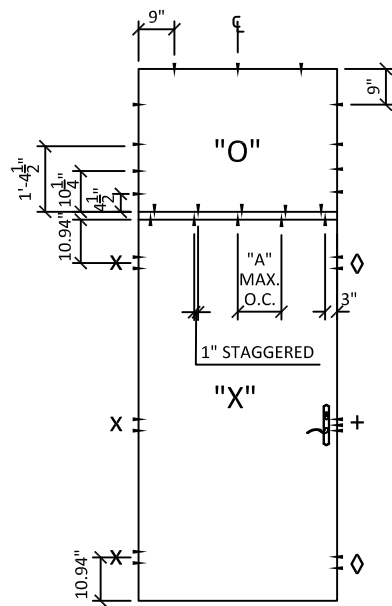
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DWG. #: **AWD156**

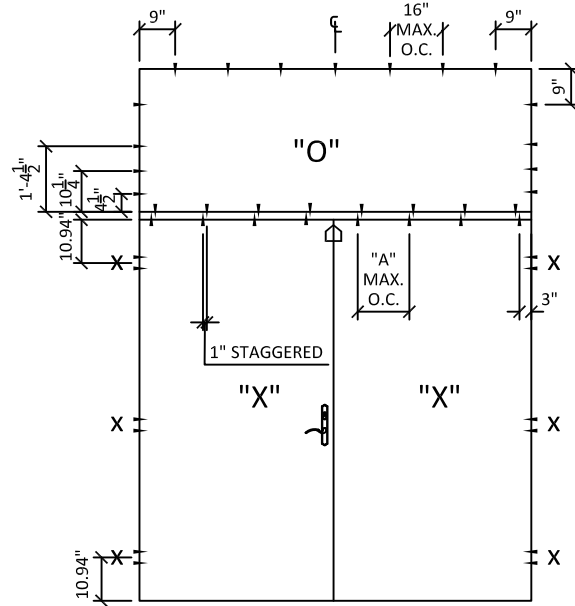
SECTION
7.0
[PAGE 12 of 24]

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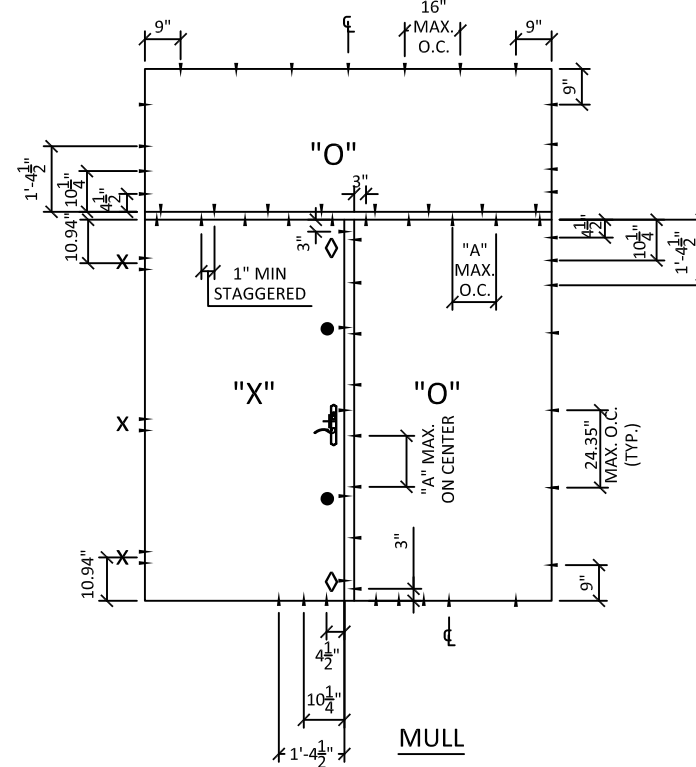
ANCHOR LAYOUT WITH TRANSOM



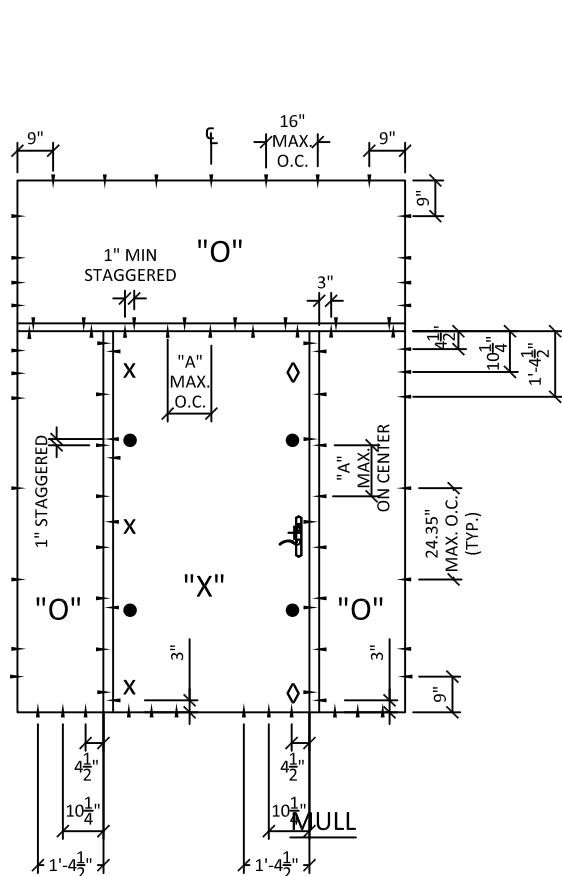
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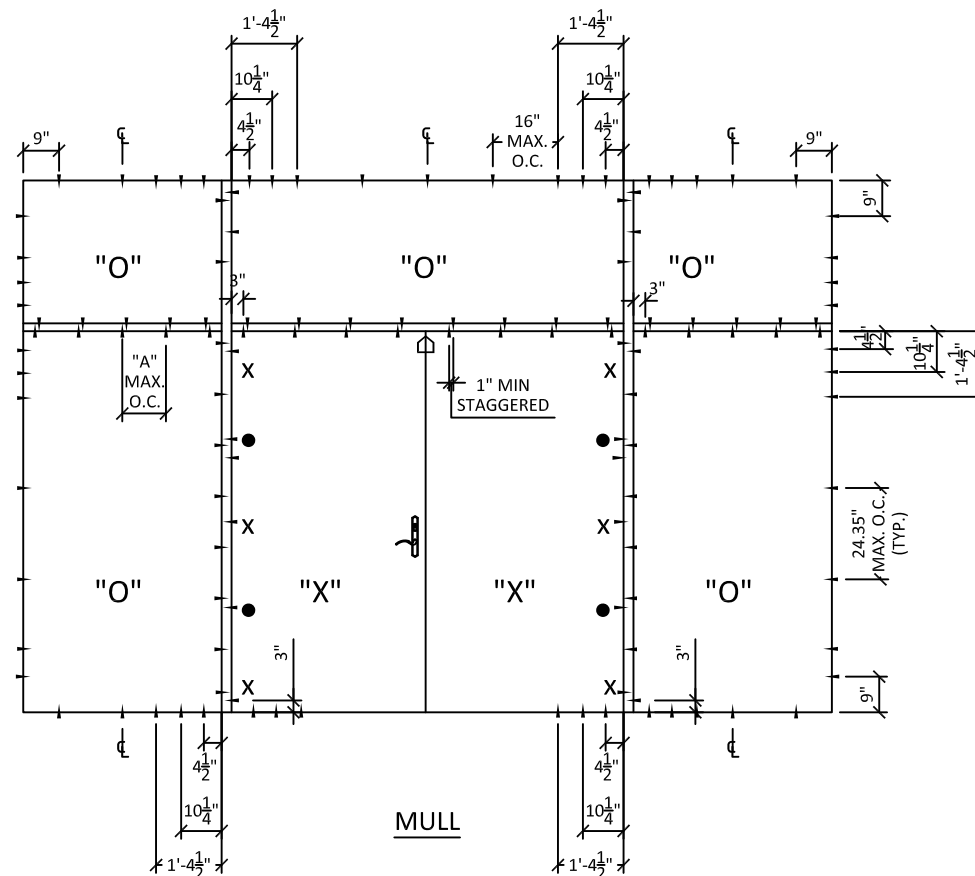
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MULL



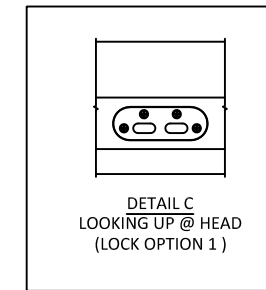
MULL



MULL

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+	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,
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UP TO 65 PSF	7.5" MAX. O.C.



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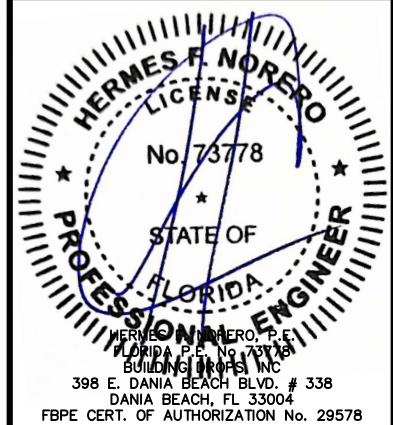
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ANCHOR LAYOUTS

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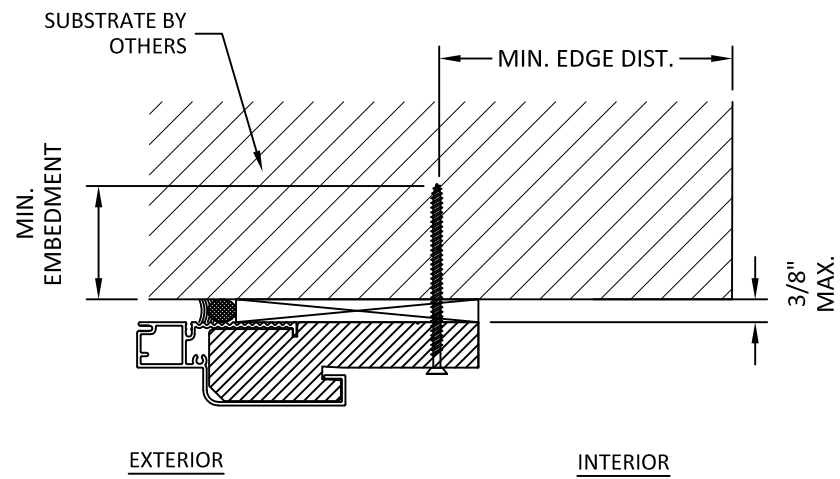
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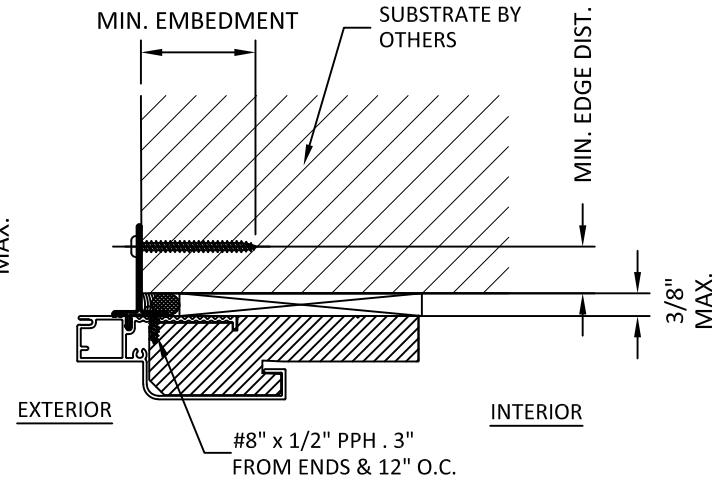
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DATE:	9.05.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD156
SECTION	7.1

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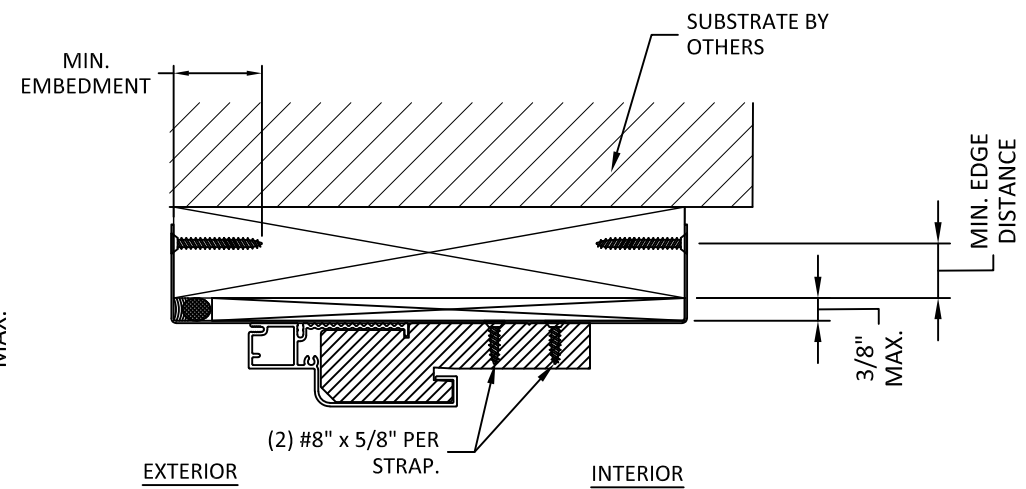
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1
8.0 VERTICAL SECTION
DOOR HEAD OR JAMB OR SILL
THROUGH FRAME



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 - INSWING
(WZ3)(IMPACT)

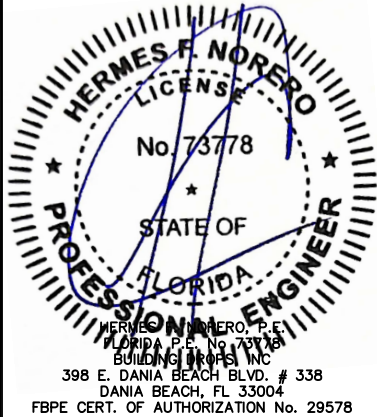
ANCHOR DETAILS, SCHEDULE & NOTES

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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
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: **9.05.17**

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

SCALE: **NTS**

DWG. #: **AWD156**

SECTION
8.0

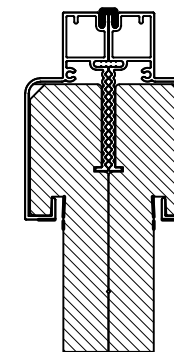
[PAGE 14 of 24]

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

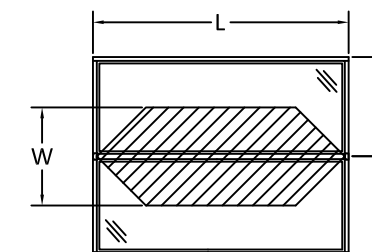
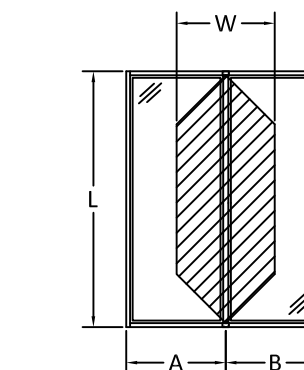
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	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



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



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

TITLE:
E-SERIES HINGED PATIO DOOR - INSWING
(WZ3)/(IMPACT)

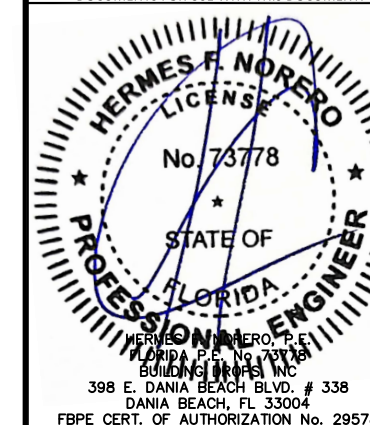
ZERO MULLION LOADS TABLE - ONE WAY

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



REMARKS	BY	DATE
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

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FL #:
FL25570

DATE: **9.05.17**

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

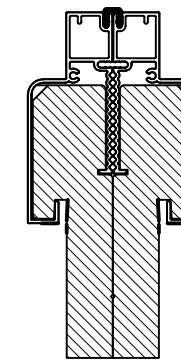
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DWG. #: **AWD156**

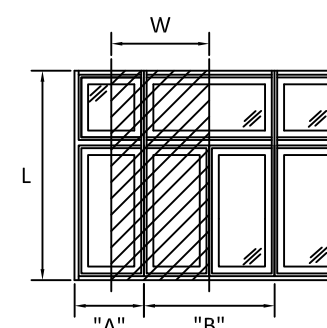
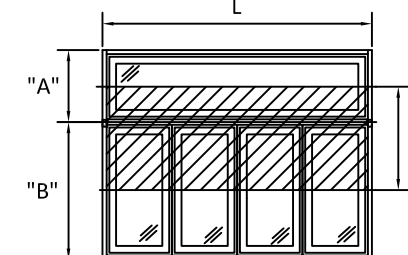
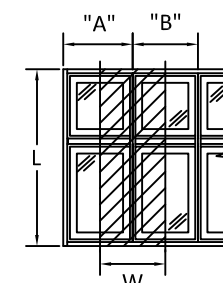
SECTION
9.0

**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.

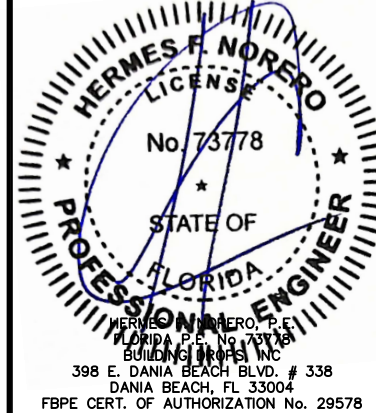


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)/(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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

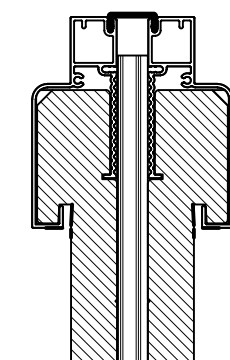
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



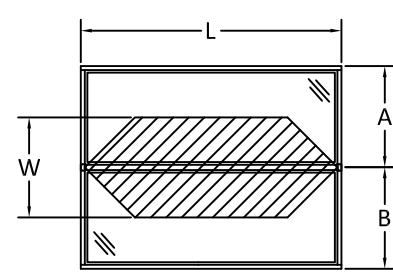
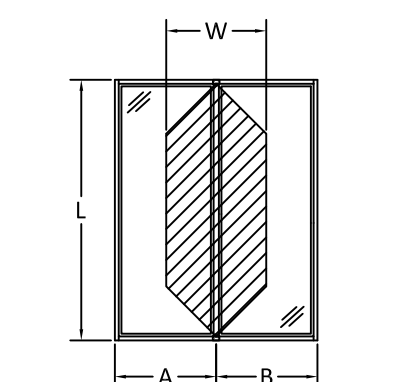
FL #: **FL25570**
DATE: **9.05.17**
DWG. BY: **RV** | CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **AWD156**
SECTION **9.1**
[PAGE 16 of 24]

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.



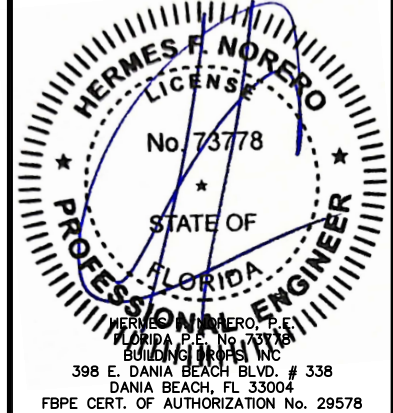
100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

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

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

REMARKS	BY	DATE
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
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: **9.05.17**

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

SCALE: **NTS**

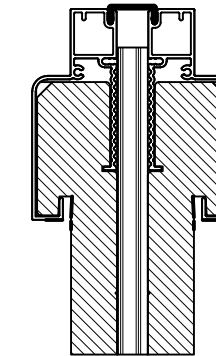
DWG. #: **AWD156**

SECTION **9.2**

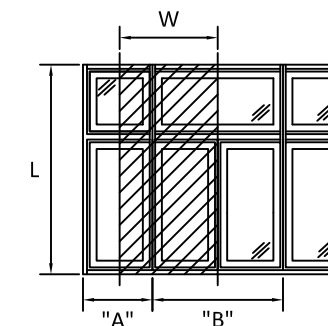
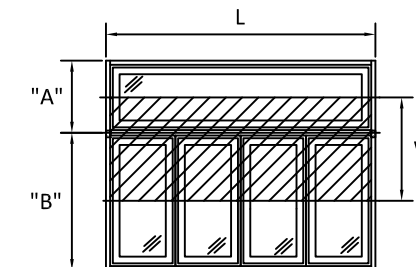
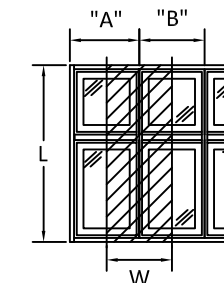
[PAGE 17 of 24]

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



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

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.

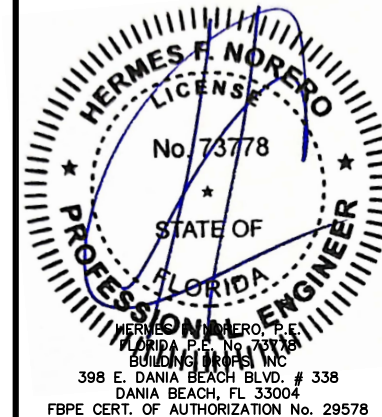


100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

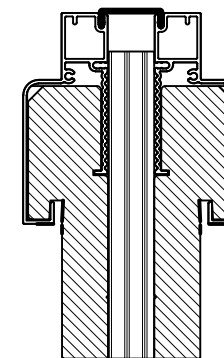
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



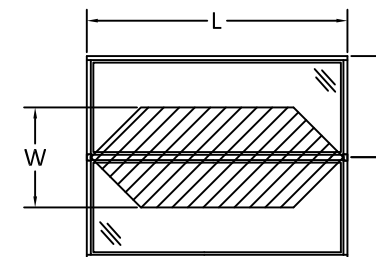
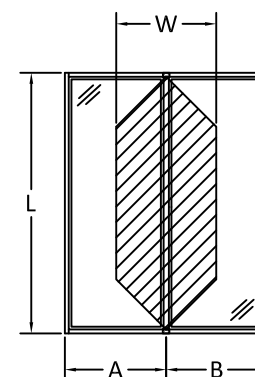
FL #: **FL25570**
 DATE: **9.05.17**
 DWG. BY: **RV** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD156**
 SECTION **9.3**
 [PAGE 18 of 24]

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



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

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.



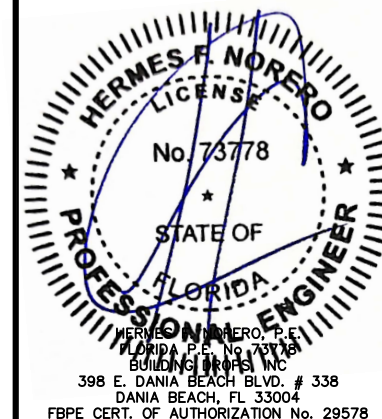
100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)/(IMPACT)
 3/4" X 5 3/16" MULLION LOADS TABLE - ONE WAY

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

REMARKS	BY	DATE
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
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: **9.05.17**

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

SCALE: **NTS**

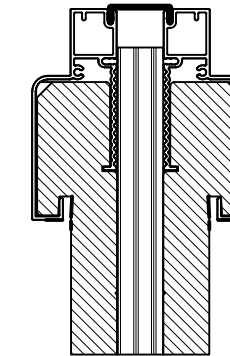
DWG. #: **AWD156**

SECTION **9.4**

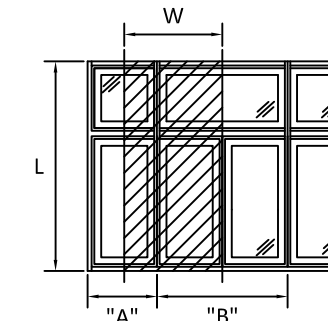
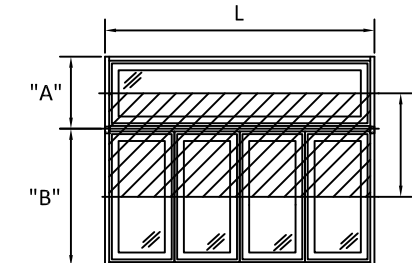
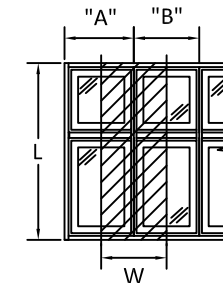
[PAGE 19 of 24]

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.



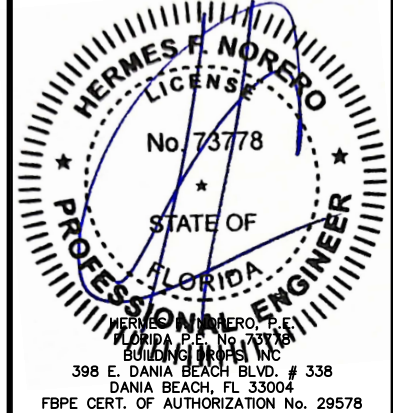
100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
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: **9.05.17**

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

SCALE: **NTS**

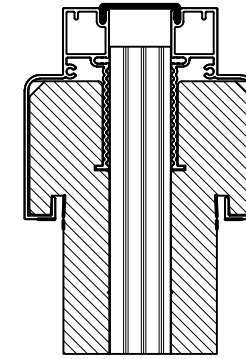
DWG. #: **AWD156**

SECTION **9.5**

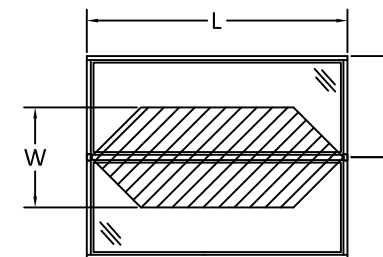
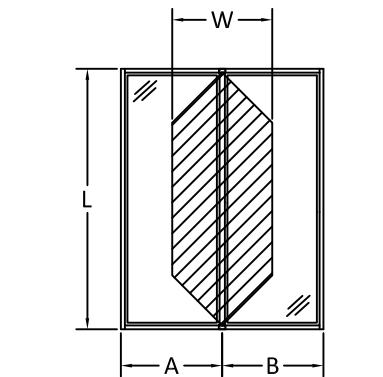
[PAGE 20 of 24]

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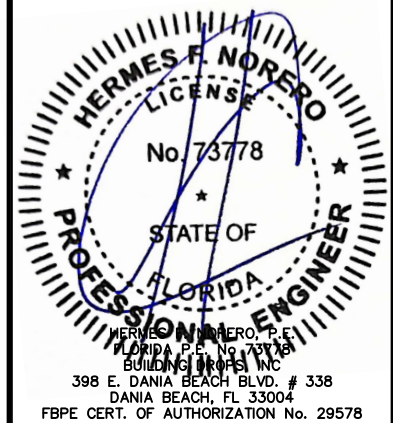
100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(IMPACT)
 1" X 5 3/16" MULLION LOADS TABLE - ONE WAY

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

REMARKS	BY	DATE
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

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FL #: **FL25570**

DATE: **9.05.17**

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

SCALE: **NTS**

DWG. #: **AWD156**

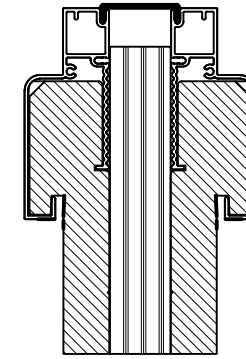
SECTION **9.6**

[PAGE 21 of 24]

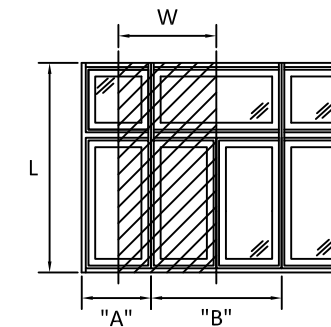
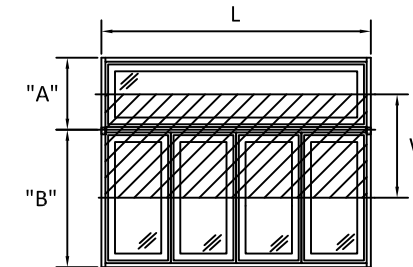
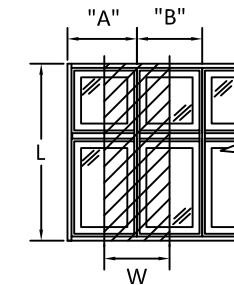
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
1" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

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	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.

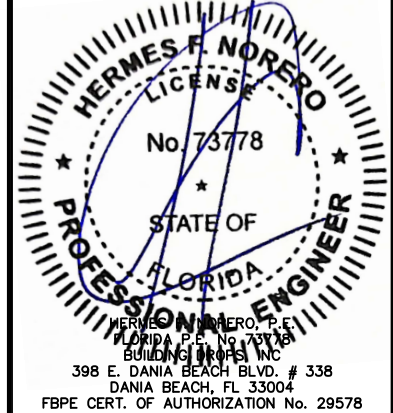


100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

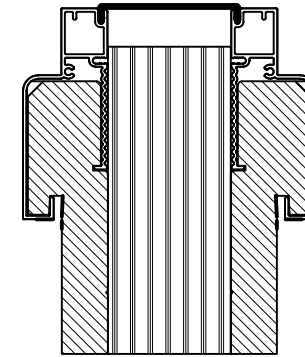
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



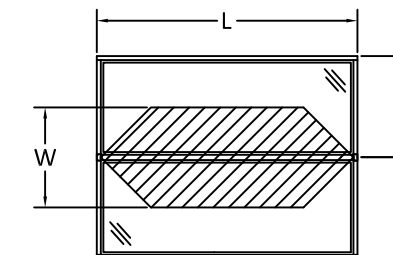
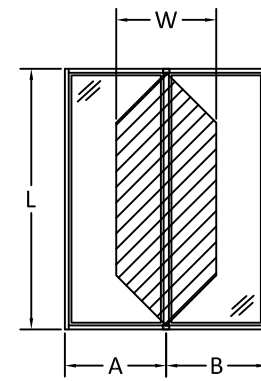
FL #: **FL25570**
 DATE: **9.05.17**
 DWG. BY: **RV** | CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **AWD156**
 SECTION
9.7
 [PAGE 22 of 24]

**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.

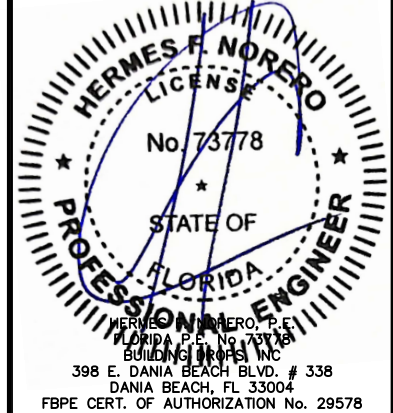


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(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
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
2023 FBC CODE CHANGE	MS	5/11/23

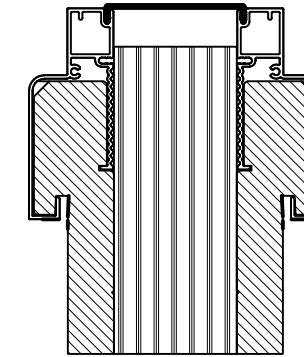
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



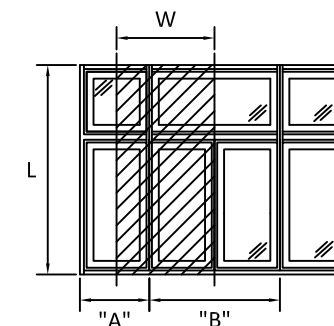
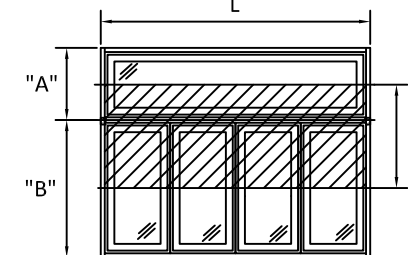
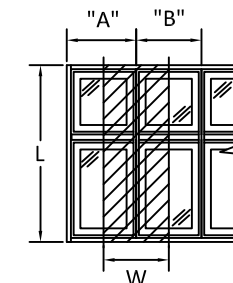
FL #: **FL25570**
DATE: **9.05.17**
DWG. BY: **RV** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **AWD156**
SECTION **9.8**
[PAGE 23 of 24]

**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.

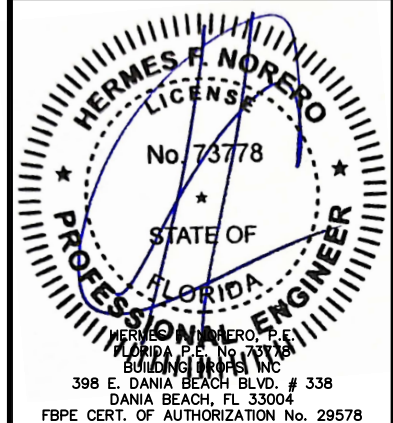


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - INSWING (WZ3)(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) 359-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19
ADDED 3/4" X 5-3/16" MULL & DP CHARTS	LL	7.31.19
7TH FBC CODE CHANGE	NUS	6.29.20
INSTALLATION UPDATES	SH	07.26.22
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: **9.05.17**
DWG. BY: **RV** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **AWD156**
SECTION
9.9
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