ANDERSEN CORPORATION

E-SERIES HINGED PATIO DOOR -OUTSWING

(IMPACT) (HVHZ)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   - TAS 201-94
   - TAS 202-94
   - TAS 203-94

2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

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

5. APPROVED IMPACT PROTECTIVE SYSTEM IS **NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.

6. DOOR FRAME MATERIAL, CLADDING : *ALUMINUM*
   WOOD: PONDEROSA PINE

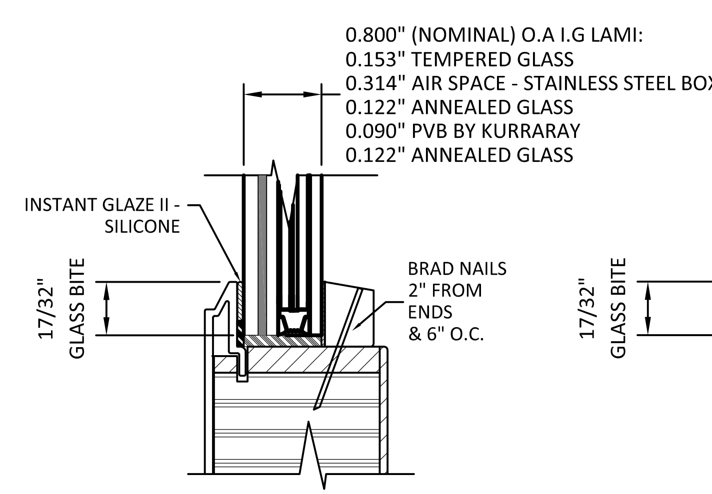
7. MULLION MATERIAL: *LAMINATED VENEER LUMBER.*

8. GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE SHEET *1* FOR GLAZING DETAILS.

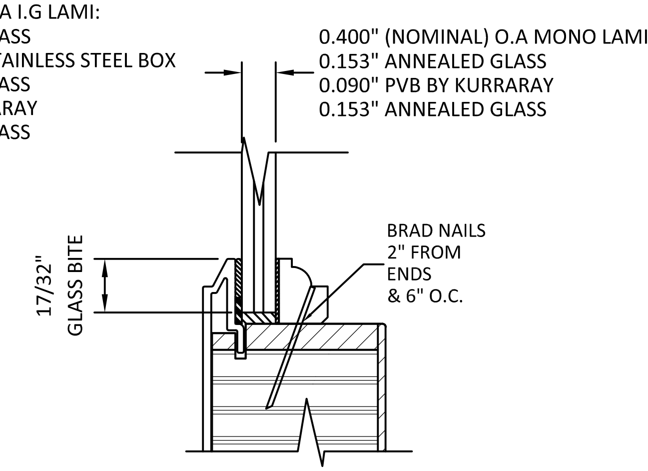
9. *DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:*
   X: OPERABLE PANEL
   O: FIXED PANEL

10. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.

TABLE OF CONTENTS



GLAZING DETAIL G1



GLAZING DETAIL G2

GLASS STOP PROFILES ARE INTERCHANGEABLE

* NOTE:
1. GLASS ON THIS SHEET MEETS ASTM E1300-04 REQUIREMENTS.
2. SETTING BLOCK DUROMETER HARDNESS OF 80 AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.

Andersen AW WINDOWS • DOORS
100 FOURTH AVE. NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FAX: (651) 264-5485

TITLE: E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
GENERAL NOTES & GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
TEST STANDARDS UPDATE	HR	7.2.18

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Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2019.04.22 21:28:20 -04'00'

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

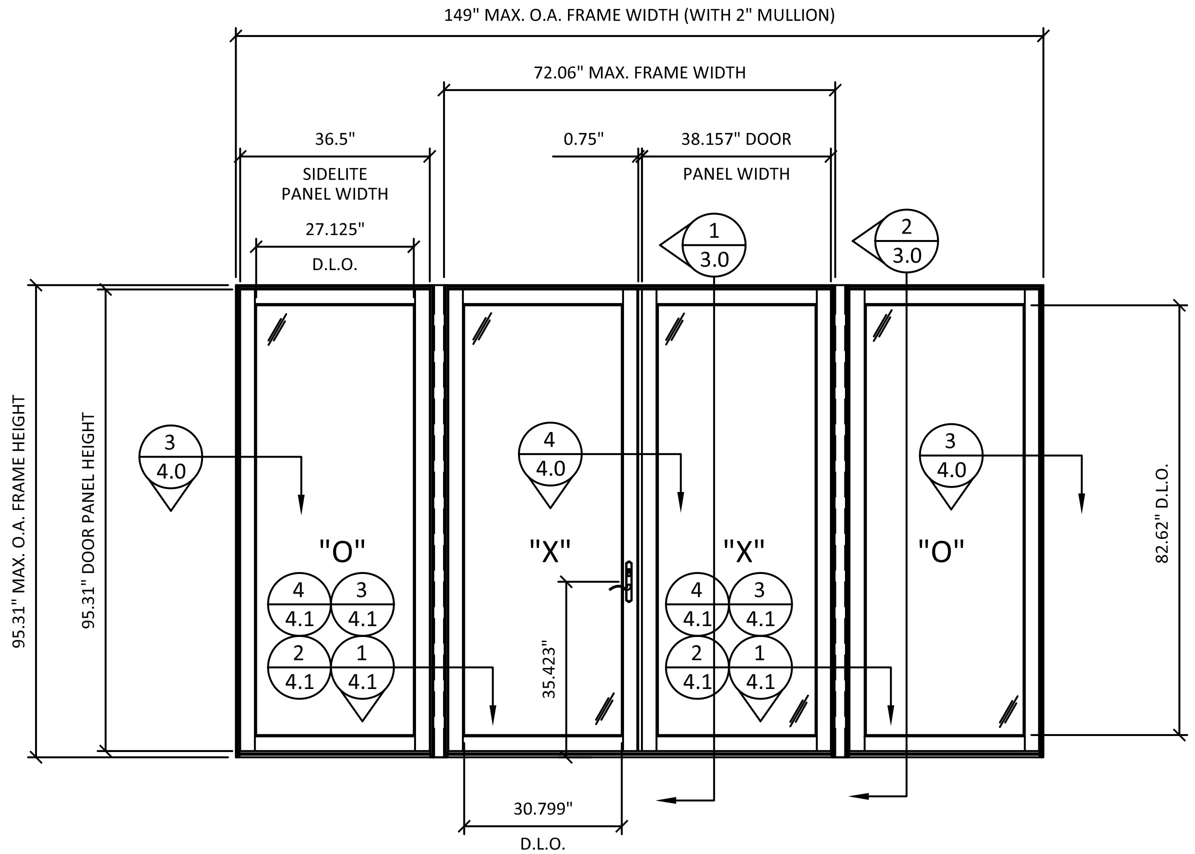
DATE: 9.05.17

DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

DWG. #: AWD230

SECTION 1.0

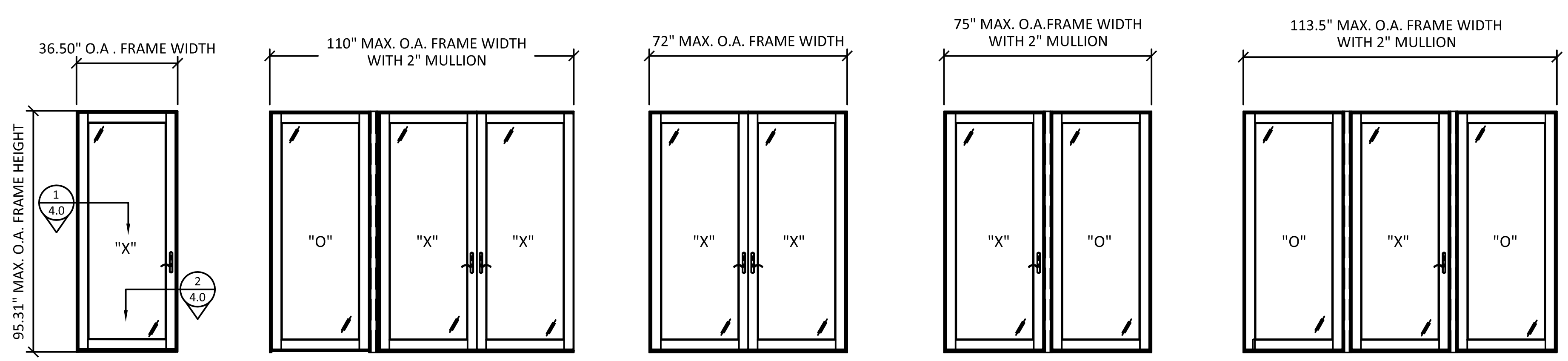


ELEVATION
OUTSWING DOOR WITH 2" MULLION

CONFIGURATION	WIDTH	HEIGHT	GLAZING TYPE	PANEL TYPE	PG RATING	STRUCTURAL DESIGN PRESSURE
X OR O	36.50	95.31	G1	SP1, SP2, SP1R1, SP1R2, SP2R3, SL1, SL2, SL1R1, SL1R2, SL2R3	PG65	+/-65
			G2		PG65	+65/-75
XX	72.06	95.31	G1 OR G2	SP1, SP2, SP1R1, SP1R2 & SP2R3	PG65	+/-65
O	72.06	36.00	G1	ST1, ST2, ST3, ST4 & ST5	PG65	+/-65
			G2		PG60	+60/-65

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

OTHER QUALIFIED CONFIGURATIONS



Andersen AW WINDOWS • DOORS
100 FOURTH AVE. NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FAX: (651) 264-5485

TITLE:
E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
ELEVATIONS & CONFIGURATIONS

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" & 2" MULL	HR	4.12.19

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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL25570

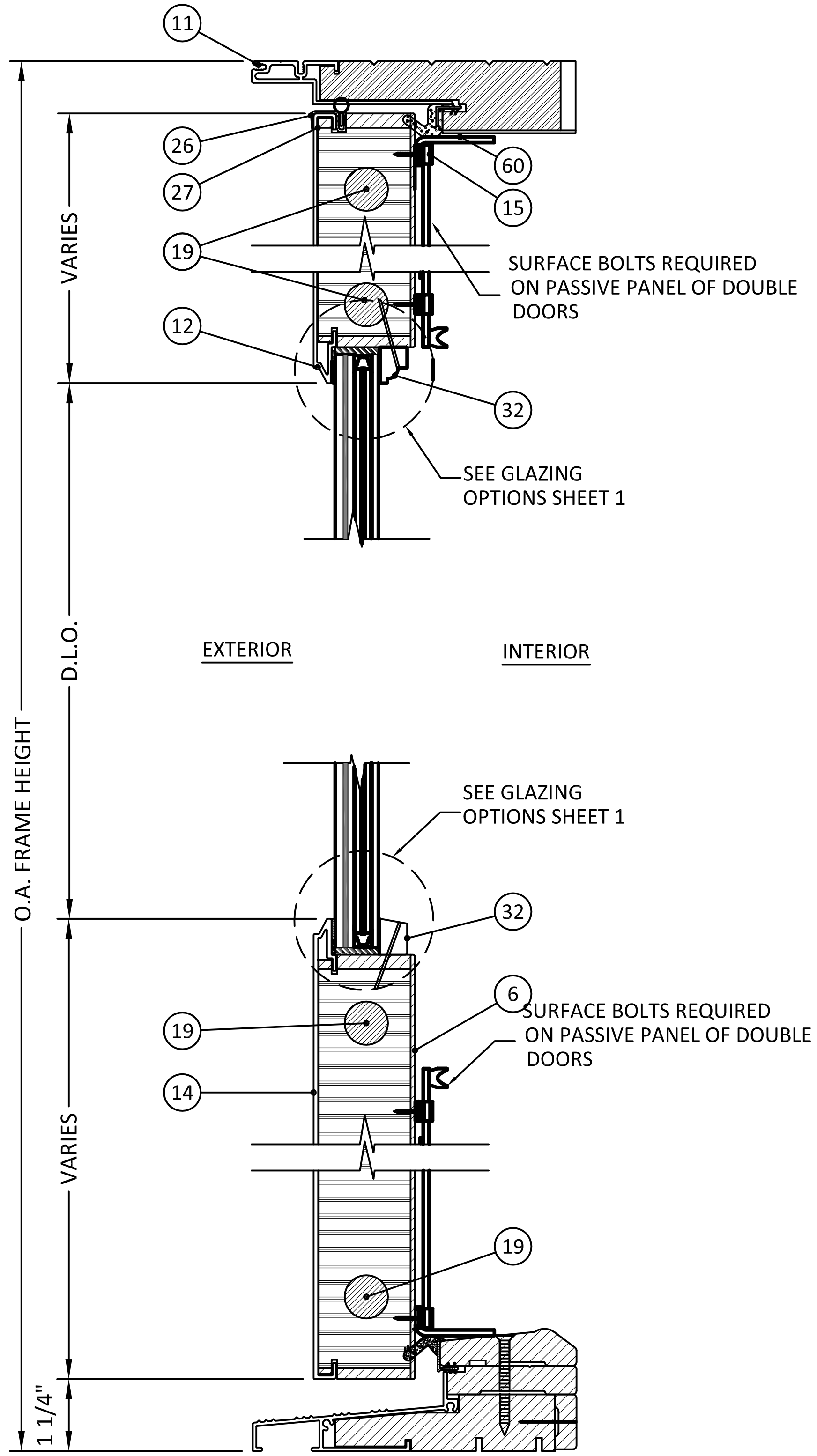
DATE: 9.05.17

DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

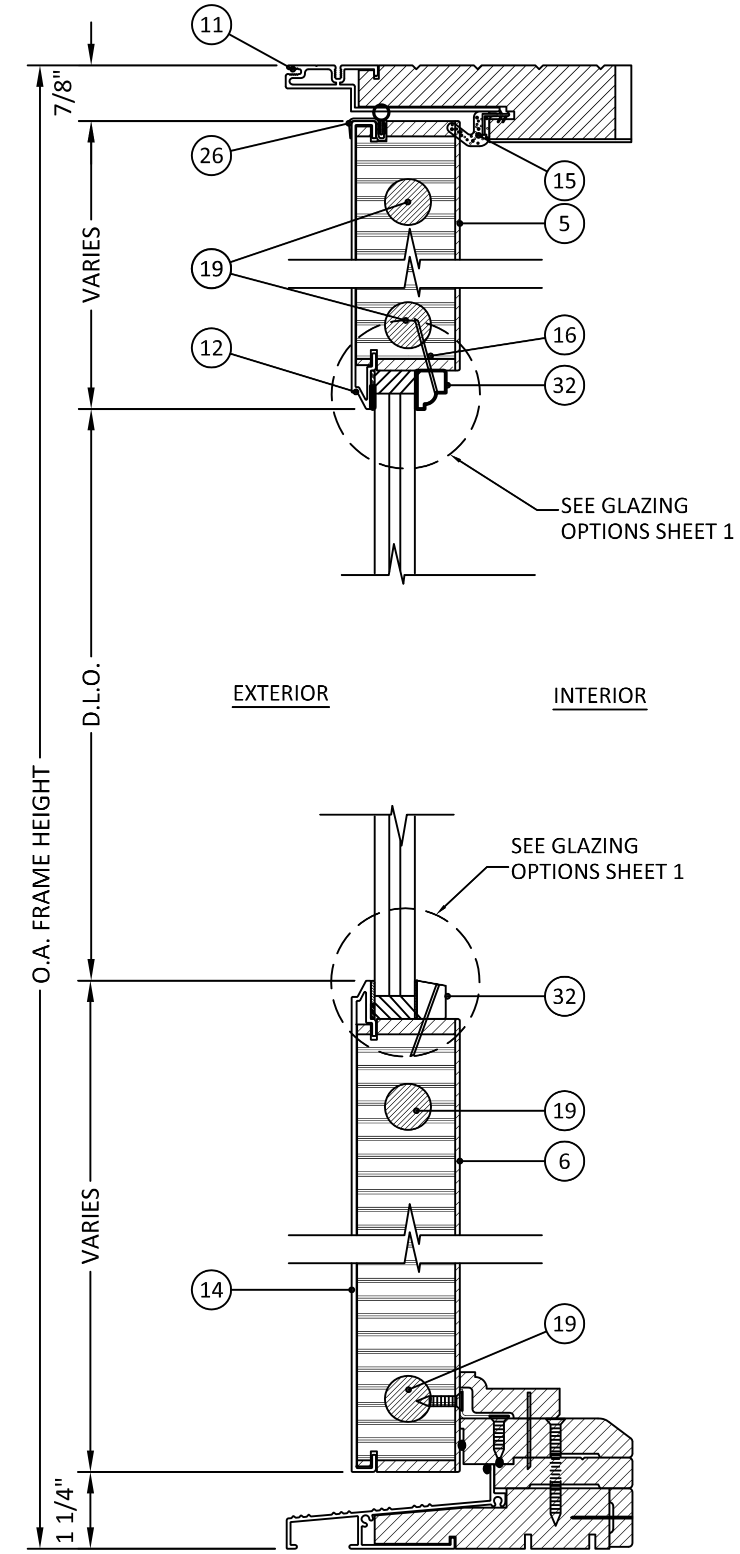
DWG. #: AWD230

SECTION 2.0



1 / 3.0 VERTICAL SECTION

FULL GLAZED PANEL



2 / 3.0 VERTICAL SECTION

FULL GLAZED SIDELITE

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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 - OUTSWING (IMPACT) (HVHZ)
VERTICAL SECTIONS

PREPARED BY:
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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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REMARKS	BY	DATE

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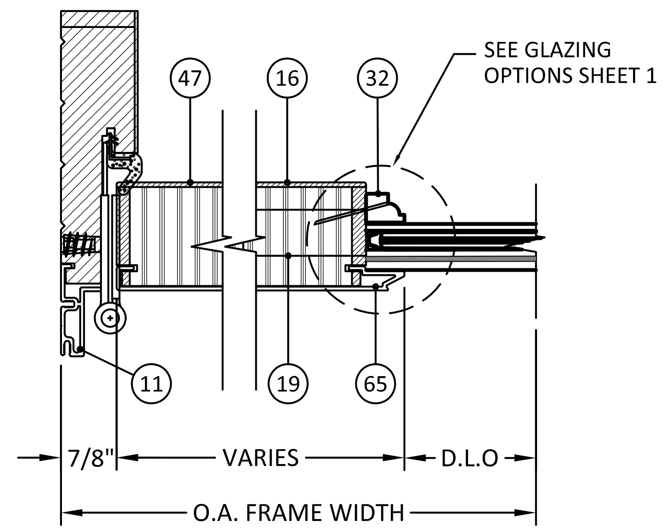
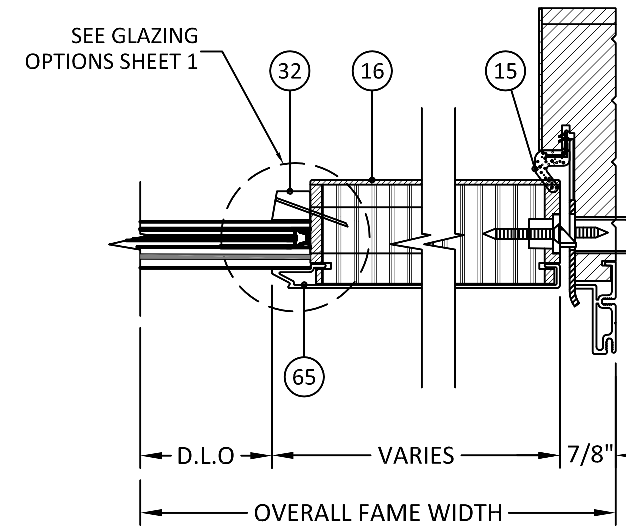
SCALE: NTS

DWG. #: AWD230

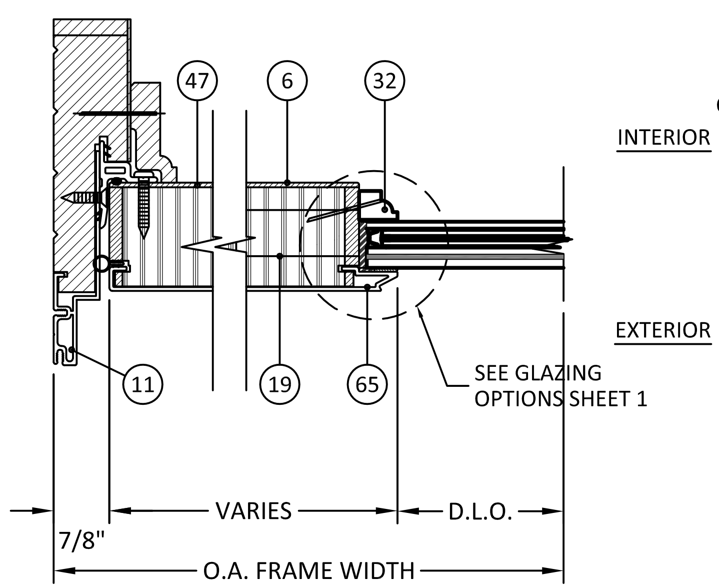
SECTION 3.0



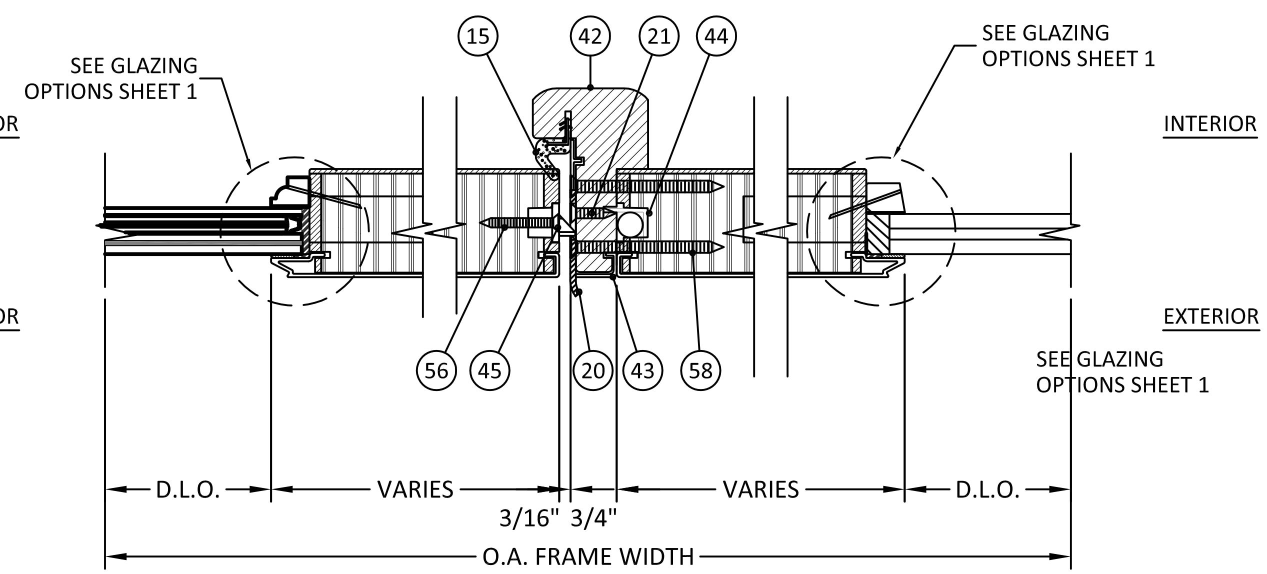
1 / 4.0 HORIZONTAL SECTION
HINGE JAMB



2 / 4.0 HORIZONTAL SECTION
LOCK JAMB



3 / 4.0 HORIZONTAL SECTION
SIDELITE JAMB



4 / 4.0 HORIZONTAL SECTION
ASTRAGAL

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

TITLE:
E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
HORIZONTAL SECTIONS

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DANIA BEACH, FL 33004
PH: (954)399-8478
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REMARKS	BY	DATE

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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL25570

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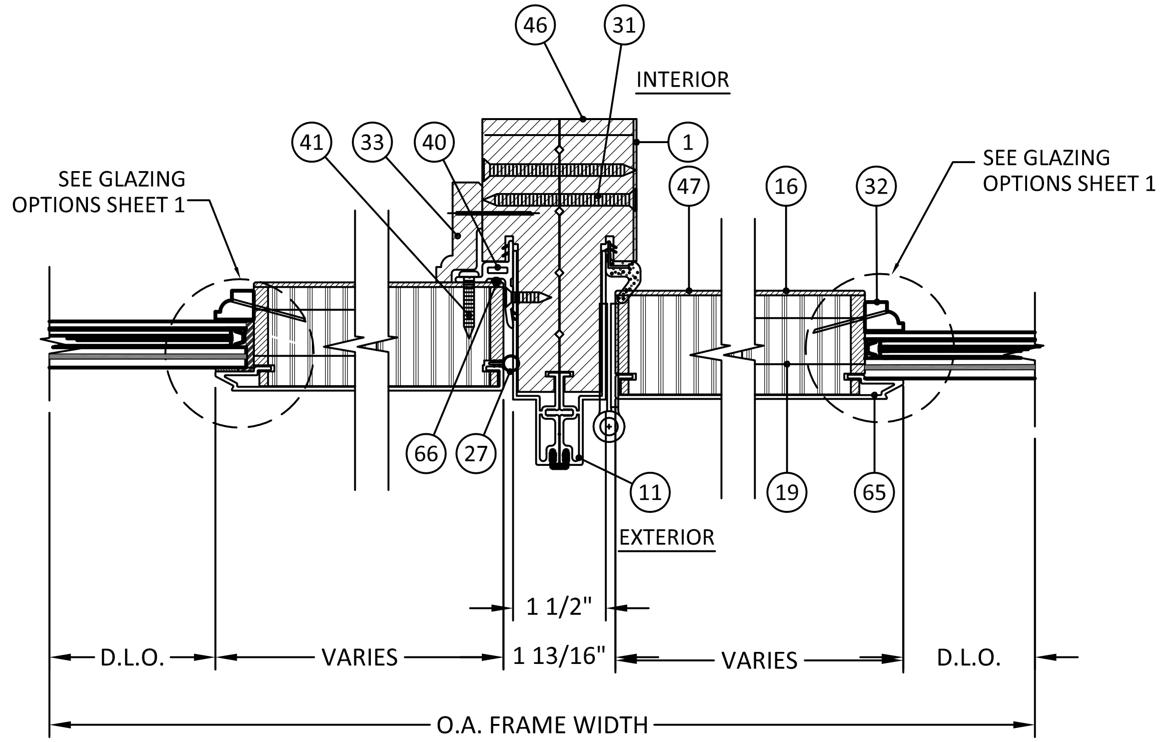
DWG. BY: RV | CHK. BY: HFN

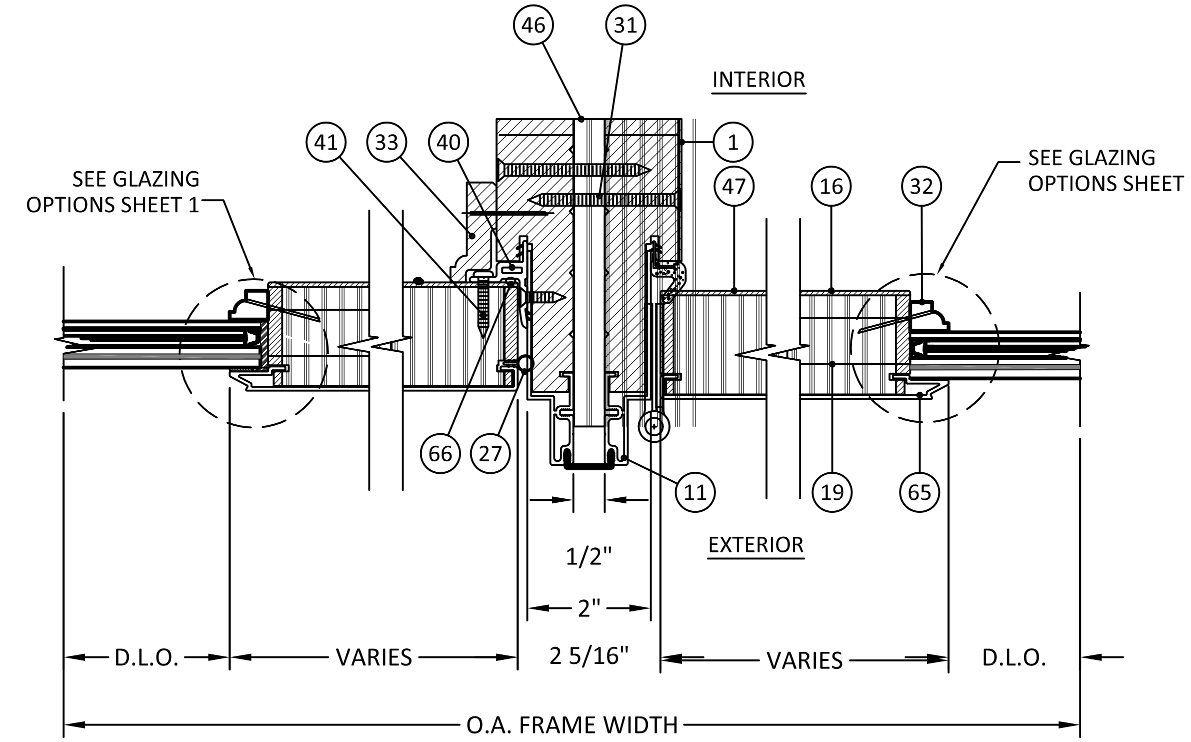
SCALE: NTS

DWG. #: AWD230

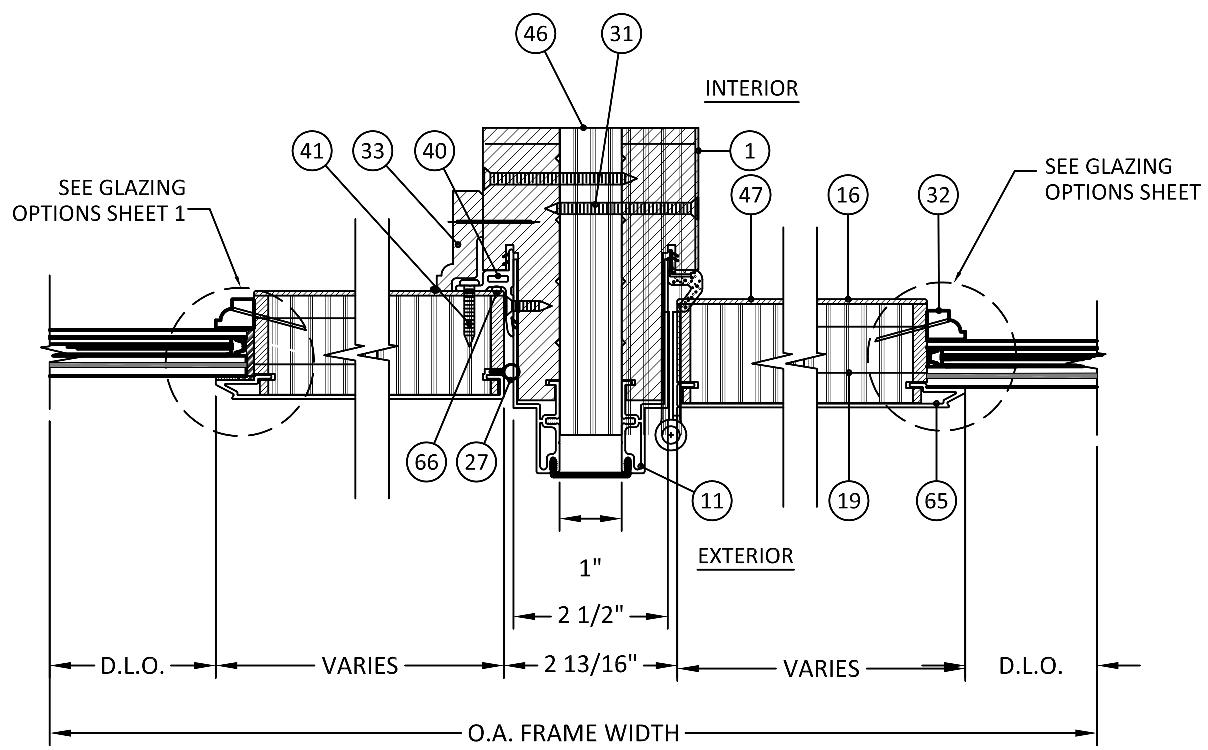
SECTION 4.0



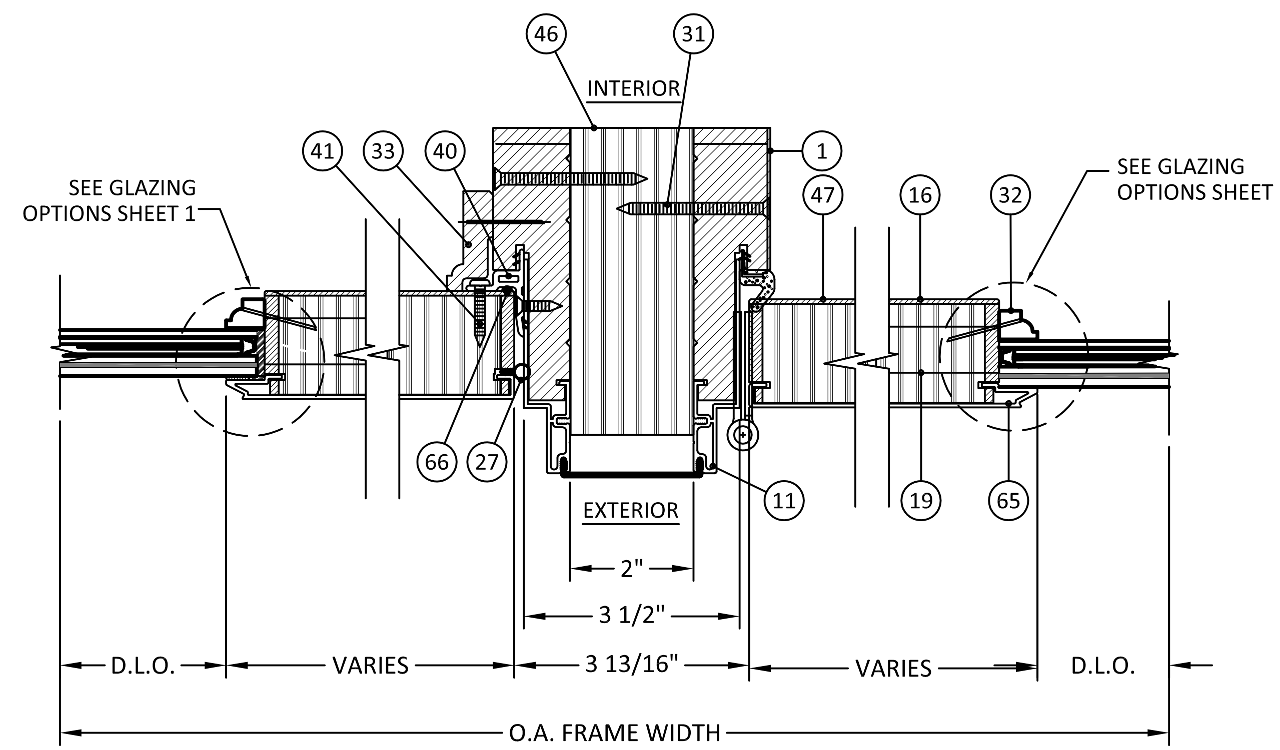
1 / 4.1 **HORIZONTAL SECTION**
ZERO MULLION
FIXED TO OPERABLE LITE



1 / 4.1 **HORIZONTAL SECTION**
1/2" MULLION
FIXED TO OPERABLE LITE



1 / 4.1 **HORIZONTAL SECTION**
1" MULLION
FIXED TO OPERABLE LITE



1 / 4.1 **HORIZONTAL SECTION**
2" MULLION
FIXED TO OPERABLE LITE

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TITLE: E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
HORIZONTAL SECTIONS

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REMARKS	BY	DATE
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19

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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL25570

DATE: 9.05.17

DWG. BY: RV
CHK. BY: HFN

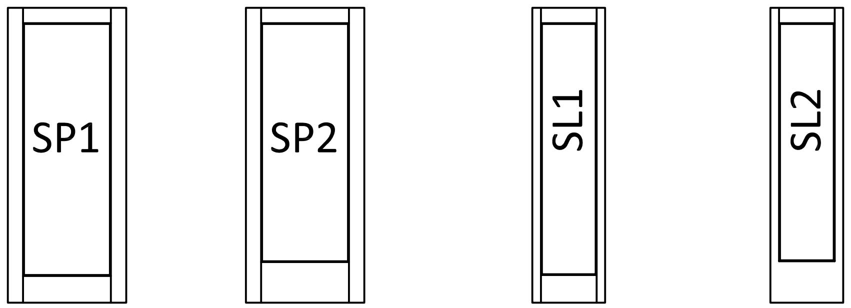
SCALE: NTS

DWG. #: AWD230

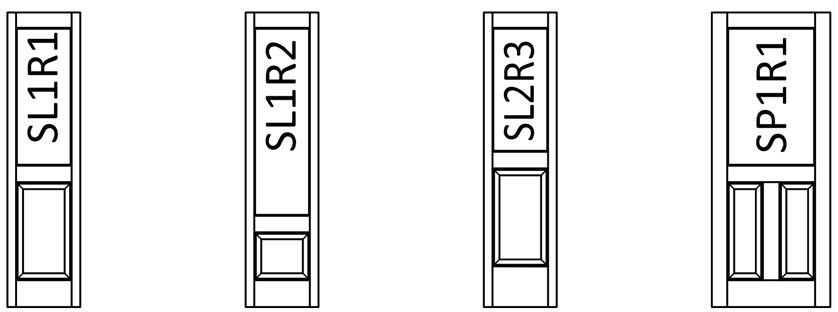
SECTION 4.1

PANELS & SIDELITES TYPES

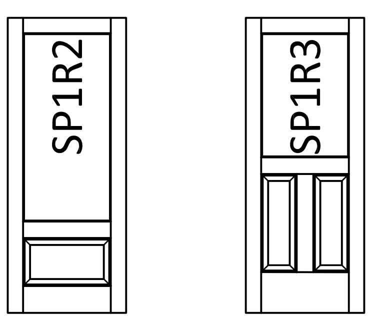
NOTES:
1. REFER TO SECTION 2 FOR CORRESPONDING PANEL TYPES AND CONFIGURATION QUALIFIED TO BE USED WITH THIS APPROVAL.



SP1	SP2	SL1	SL2
4 11/16" STILES & RAIL 8" BOTTOM RAIL	4 11/16" STILES & RAIL 12" BOTTOM RAIL	2 3/4" STILES & 4 11/16" TOP RAIL 8" BOTTOM RAIL	2 3/4" STILES 12" BOTTOM RAIL & 4 11/16" TOP RAIL

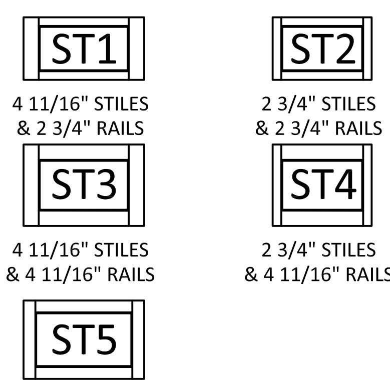


SL1R1	SL1R2	SL2R3	SP1R1
2 3/4" STILES & MID-RAIL 8" BOTTOM RAIL & 4 11/16" TOP RAIL EMBOSSED PANEL	2 3/4" STILES & MID-RAIL 8" BOTTOM RAIL & 4 11/16" TOP RAIL EMBOSSED PANEL	2 3/4" STILES & MID-RAIL 12" BOTTOM RAIL & 4 11/16" TOP RAIL EMBOSSED PANEL	4 11/16" STILES, RAIL & MID-RAIL 8" BOTTOM RAIL & EMBOSSED PANEL



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

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



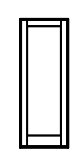
ST1: 4 11/16" STILES & 2 3/4" RAILS

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

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

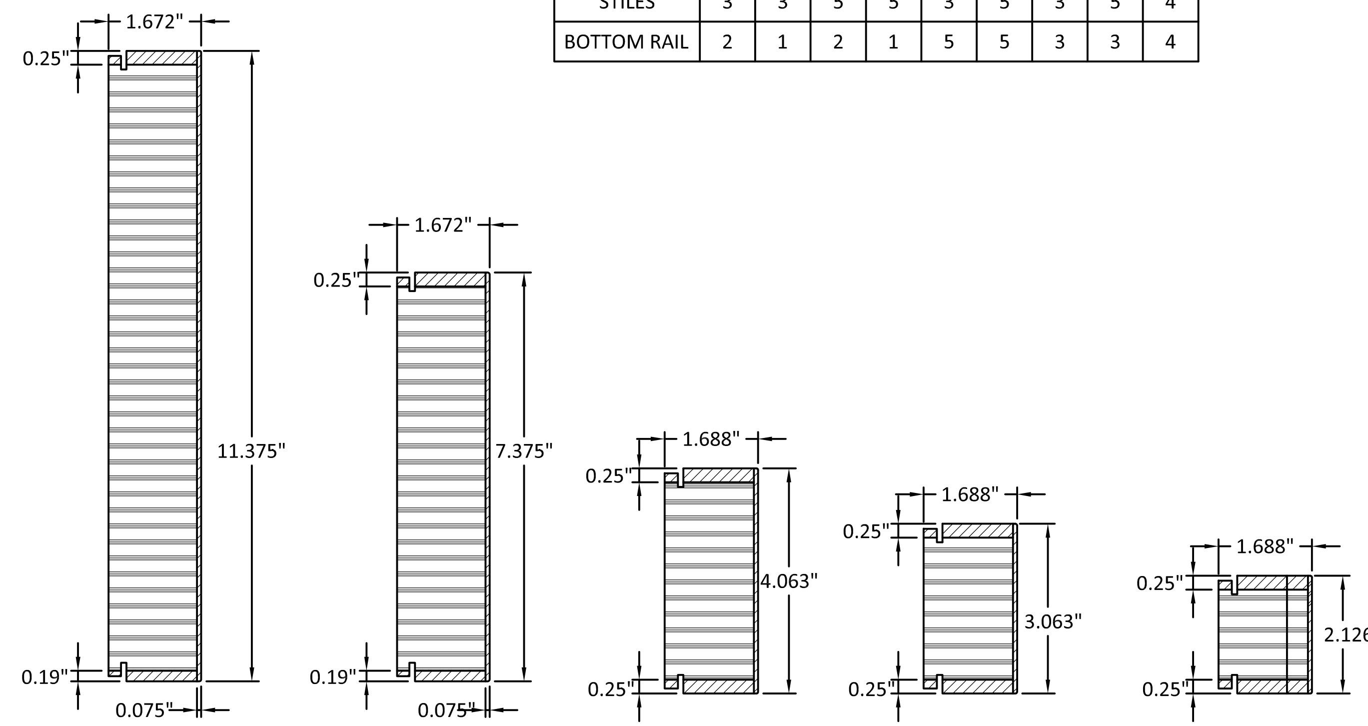
ST4: 2 3/4" STILES & 4 11/16" RAILS

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

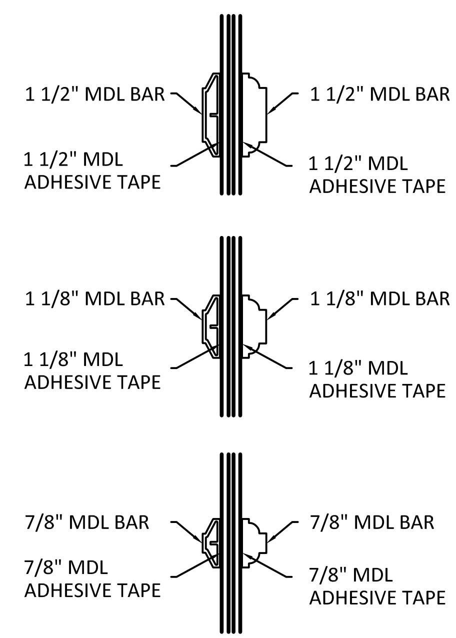


ALLOWABLE SHAPES

	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



① BOTTOM RAIL ② BOTTOM RAIL ③ TOP RAIL & STILE ④ TOP RAIL & STILE ⑤ STILE



OPTIONAL MUNTIN BAR ATTACHMENT TO GLASS

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

TITLE: E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ) MUNTIN BAR, PANELS & SIDELITES DETAILS

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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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REMARKS	BY	DATE

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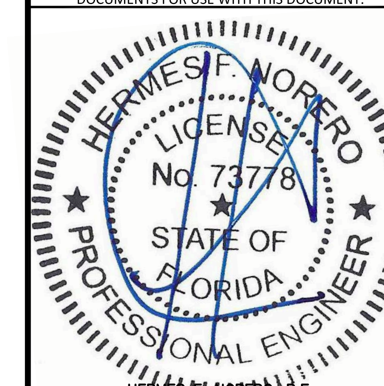

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FL #: FL25570

DATE: 9.05.17

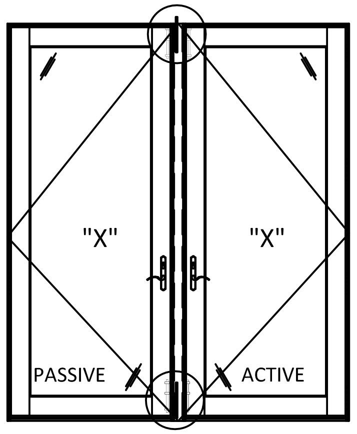
DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

DWG. #: AWD230

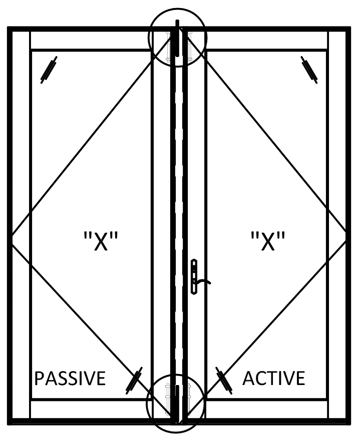
SECTION 5.0

NOTES:
1. SURFACE BOLTS REQUIRED ON IMPACT DOUBLE UNITS



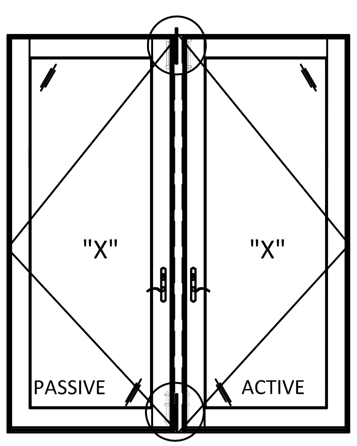
OPTION 1
(AW HARDWARE)

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)

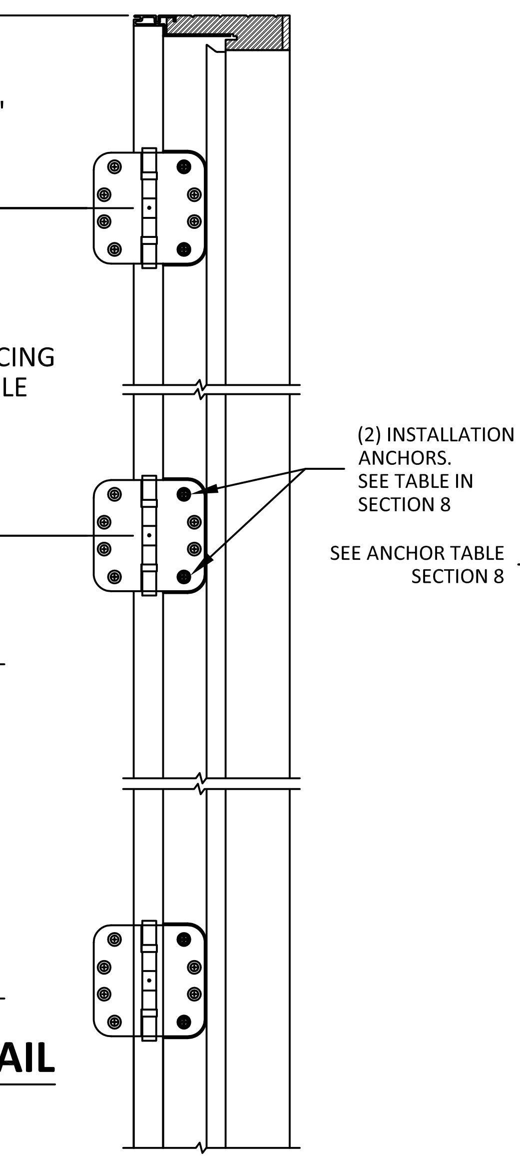
ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 92MM LOCK TO HANDLE SPACING, 45 MM LOCK/HANDLE BACKSET.
PASSIVE LEAF:
MANUALLY OPERATED MORTISE LEVER SHOOT BOLT THROUGH ASTRAGAL, NO HANDLE.

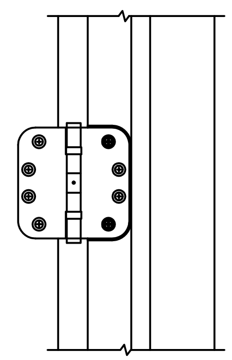


OPTION 3
(TYPE II)

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

HINGE LOCATIONS
USE #12 SCREW TYP.

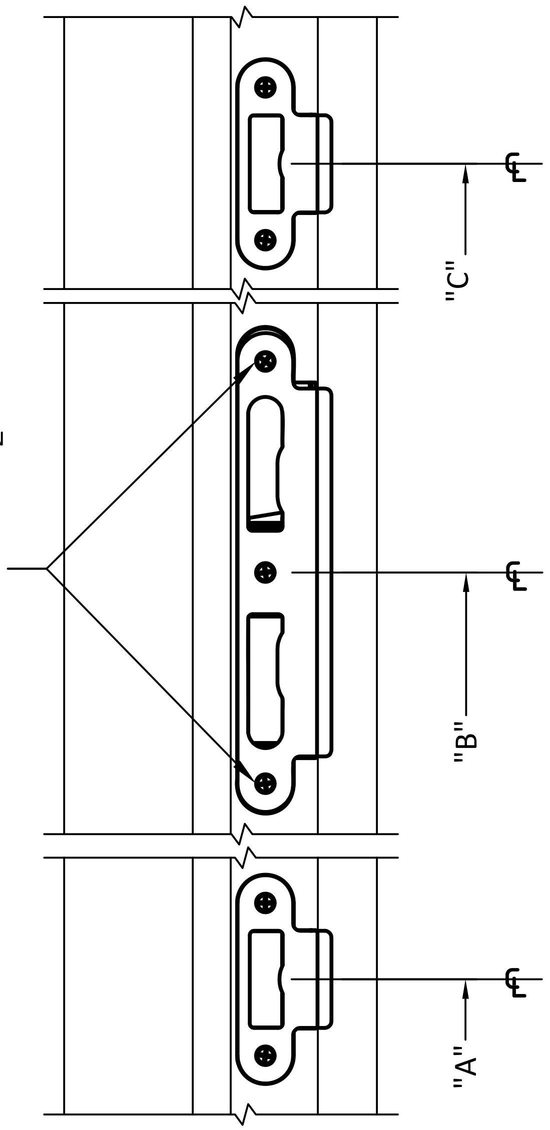




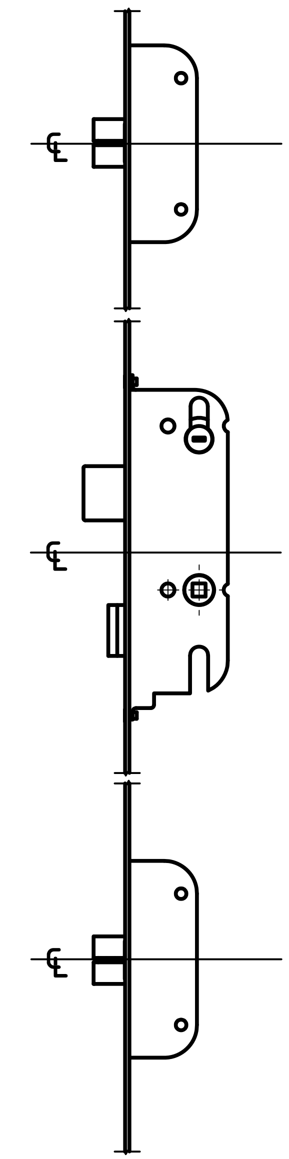
HINGE DETAIL

STRIKE LOCATION
USE #8 SCREW TYP.

SEE ANCHOR TABLE
SECTION 8



STRIKE PLATE LOCATIONS
@ ASTRAGAL/JAMB
APPLIES TO ALL LOCK OPTIONS



3-PT LOCK SYSTEM
ACTIVE / SINGLE DOOR
APPLIES TO ALL LOCK OPTIONS

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"				
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"

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BAYPORT, MN 55003-1096
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TITLE:
E-SERIES HINGED PATIO DOOR - OUTSWING
(IMPACT) (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

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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL25570

DATE: 9.05.17

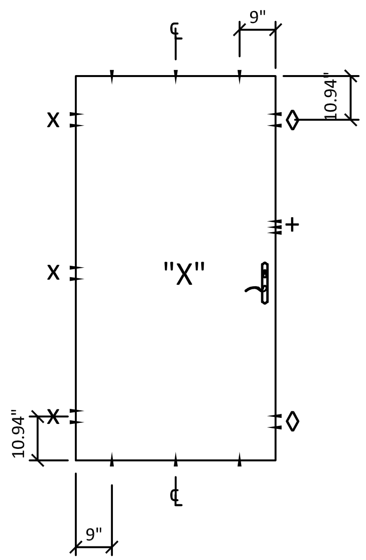
DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

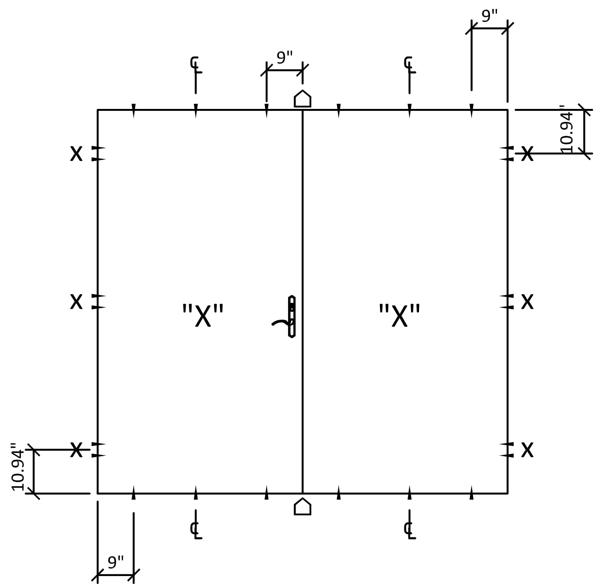
DWG. #: AWD230

SECTION 6.0

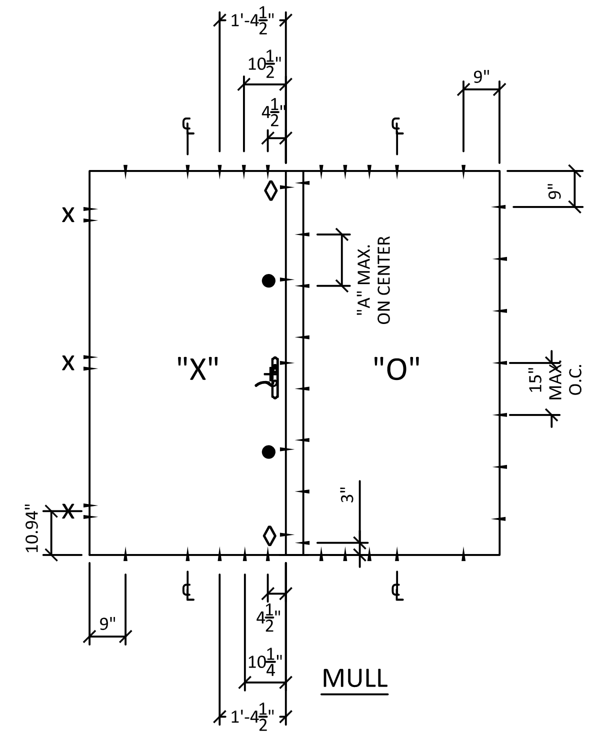
ANCHOR LAYOUT



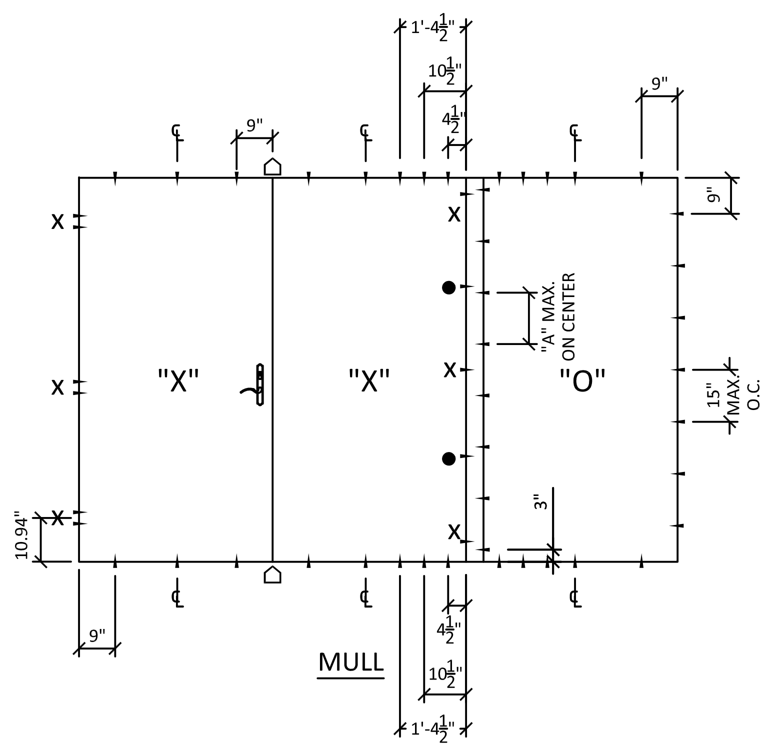
SINGLE



DOUBLE



MULL



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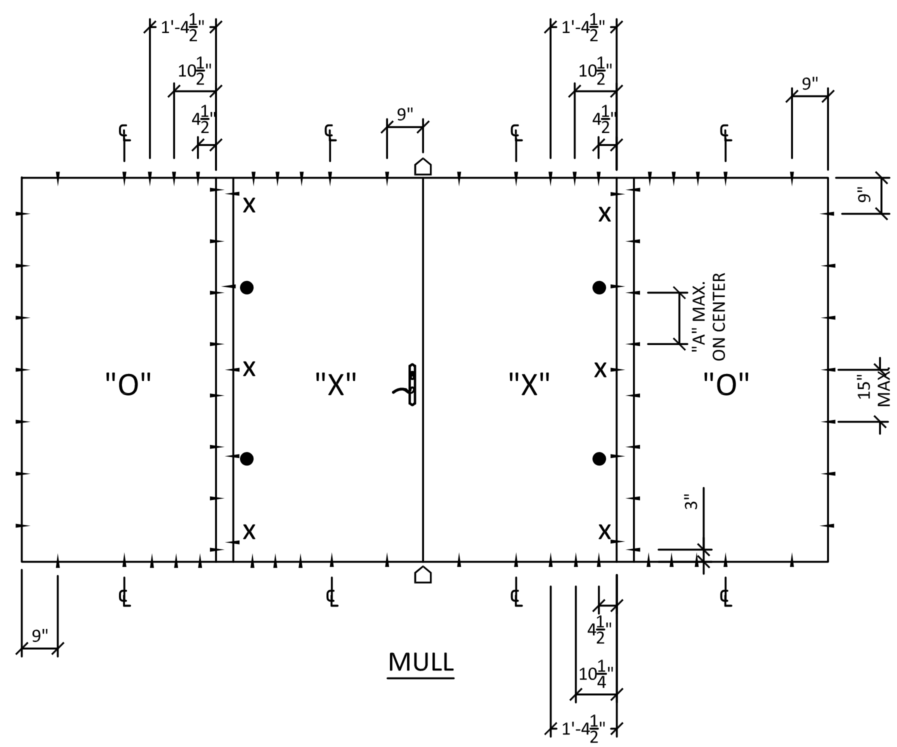
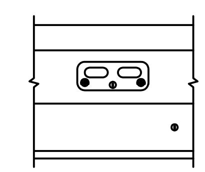


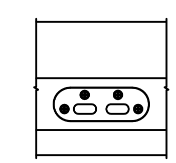
MULL

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-SPAM BETWEEN HINGES AND STRIKE PLATES

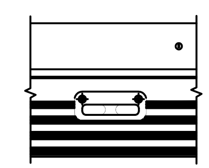
NOTE:
ANCHOR LOCATIONS APPLY TO SCREWS THROUGH FRAME, ALUMINUM NAIL FIN & STRAP INSTALLATION.



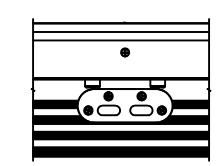
DETAIL A
LOOKING UP @ HEAD
(LOCK OPTION 2 & 3)



DETAIL C
LOOKING UP @ HEAD
(LOCK OPTION 1)



DETAIL B
LOOKING DOWN @ SILL
(LOCK OPTION 2 & 3)



DETAIL D
LOOKING DOWN @ SILL
(LOCK OPTION 1)

DESIGN PRESSURE	"A" DIMENSION
UP TO 75 PSF	13" MAX. O.C.

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

TITLE:
E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
ANCHOR LAYOUTS

PREPARED BY:
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FL #: FL25570

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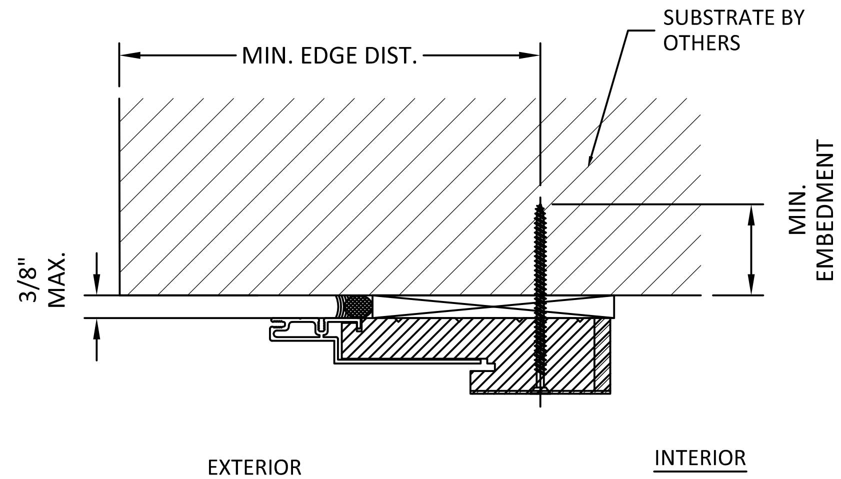
DWG. BY: RV | CHK. BY: HFN

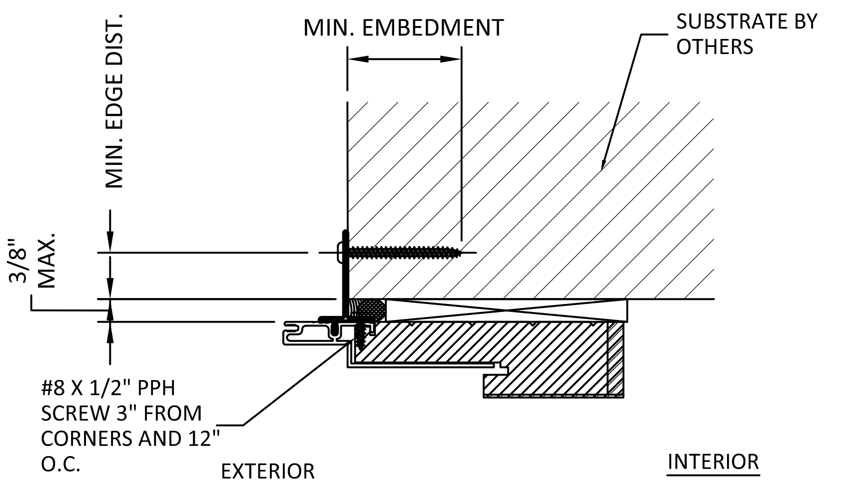
SCALE: NTS

DWG. #: AWD230

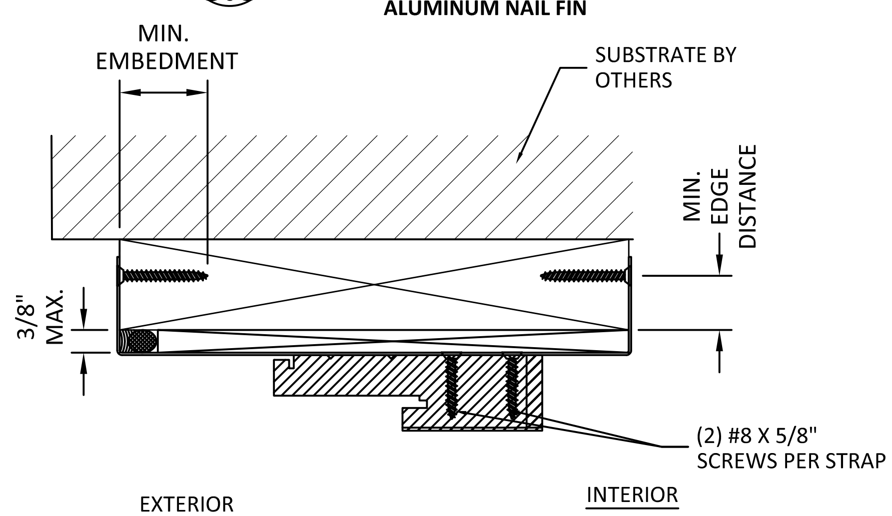
SECTION 7.0



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

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			

INSTALLATION NOTES:

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 ±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".

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

PREPARED BY:
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REMARKS	BY	DATE

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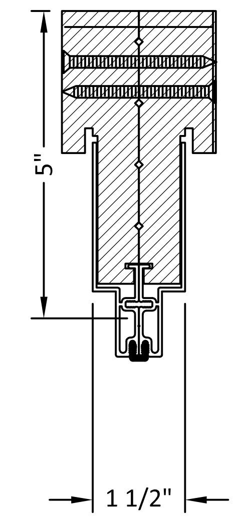
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL25570
DATE: 9.05.17
DWG. BY: RV
CHK. BY: HFN
SCALE: NTS
DWG. #: AWD230
SECTION 8.0

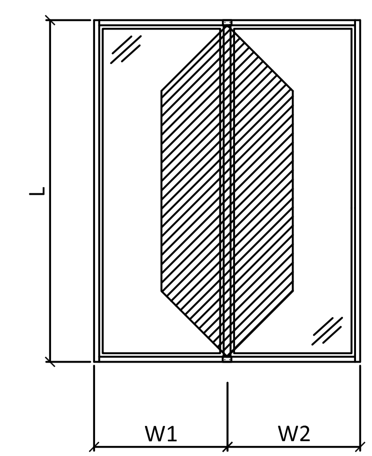
E-SERIES DOORS ZERO MULLION

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): FOR USE WITH E-SERIES DOORS ZERO MULLION ONE-WAY													
L - Mull Length (in)	W - Tributary Width (in)												
	24.0	**28.0**	**32.0**	**36.0**	**40.0**	**44.0**	**48.0**	**52.0**	**56.0**	**60.0**	**64.0**	**68.0**	**72.0**
72.0	75.0	75.0	75.0	75.0	72.8	67.8	63.9	60.8	58.4	56.7	55.4	54.7	54.4
76.0	75.0	75.0	75.0	70.4	64.6	60.0	56.3	53.4	51.1	49.3	48.0	47.1	46.5
80.0	75.0	75.0	67.0	60.6	55.6	51.7	48.5	46.0	44.0	42.5	41.3	40.4	39.7
84.0	74.7	64.8	57.5	51.9	47.6	44.1	41.3	39.1	37.3	35.8	34.7	33.8	33.1
88.0	64.8	56.1	49.8	44.9	41.0	38.0	35.5	33.5	31.9	30.5	29.5	28.6	27.9
92.0	56.5	49.0	43.3	39.0	35.7	33.0	30.8	29.0	27.5	26.3	25.3	24.5	23.8
96.0	49.6	42.9	38.0	34.2	31.2	28.8	26.8	25.2	23.9	22.8	21.9	21.1	20.5
100.0	43.8	37.9	33.5	30.1	27.4	25.3	23.5	22.1	20.9	19.9	19.0	18.3	17.8
104.0	38.9	33.6	29.7	26.7	24.3	22.3	20.8	19.5	18.4	17.5	16.7	16.1	15.5
108.0	34.7	29.9	26.4	23.7	21.6	19.8	18.4	17.3	16.3	15.4	-	-	-
112.0	31.0	26.8	23.6	21.2	19.3	17.7	16.4	15.4	-	-	-	-	-
116.0	27.9	24.1	21.2	19.0	17.3	15.9	-	-	-	-	-	-	-
120.0	25.2	21.7	19.1	17.1	15.6	-	-	-	-	-	-	-	-
124.0	22.8	19.6	17.3	15.5	-	-	-	-	-	-	-	-	-
128.0	20.7	17.8	15.7	-	-	-	-	-	-	-	-	-	-
132.0	18.9	16.2	-	-	-	-	-	-	-	-	-	-	-

NOTE:
1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES.
2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
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 2.
6) TRIBUTARY WIDTH = W = (W1+W2)/2
7) REFER TO SECTION 8 FOR INSTALLATION DETAILS.
8) WHEN WINDOWS 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.



1/9.0 **HORIZONTAL SECTION**
ZERO MULLION
ZERO X 5" LVL



$\frac{W1 + W2}{2} = W$

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

TITLE: E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
MULLION TABLES

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
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REMARKS	BY	DATE
ADDED ZERO MULL	HR	4.12.19

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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL25570

DATE: 9.05.17

DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

DWG. #: AWD230

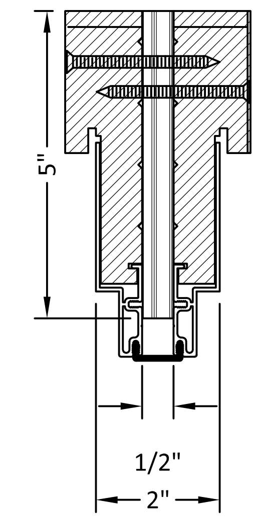
SECTION 9.0

E-SERIES DOORS 1/2" MULLION

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): FOR USE WITH E-SERIES DOORS 1/2" LVL MULLION ONE-WAY													
L - Mull Length (in)	W - Tributary Width (in)												
	24.0	**28.0**	**32.0**	**36.0**	**40.0**	**44.0**	**48.0**	**52.0**	**56.0**	**60.0**	**64.0**	**68.0**	**72.0**
72.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.3	70.5	68.3	66.9	66.0	65.7
76.0	75.0	75.0	75.0	75.0	75.0	72.3	67.9	64.4	61.6	59.5	57.9	56.7	56.1
80.0	75.0	75.0	75.0	75.0	69.6	64.5	60.4	57.1	54.5	52.3	50.7	49.4	48.6
84.0	75.0	75.0	75.0	68.5	62.6	57.9	54.1	51.0	48.5	46.5	44.8	43.6	42.6
88.0	75.0	75.0	69.0	62.1	56.6	52.3	48.8	45.9	43.5	41.6	40.0	38.7	37.7
92.0	75.0	71.1	62.9	56.5	51.5	47.5	44.2	41.5	39.3	37.5	35.9	34.7	33.7
96.0	75.0	65.2	57.5	51.7	47.0	43.3	40.3	37.8	35.7	33.9	32.5	31.3	30.3
100.0	69.4	59.9	52.9	47.4	43.1	39.7	36.9	34.5	32.6	30.9	29.5	28.4	27.4
104.0	63.6	54.9	48.5	43.6	39.7	36.5	33.9	31.7	29.8	28.3	27.0	25.9	25.0
108.0	56.7	48.9	43.2	38.8	35.3	32.5	30.1	28.2	26.6	25.3	24.1	23.1	22.3
112.0	50.7	43.8	38.6	34.7	31.5	29.0	26.9	25.1	23.7	22.4	21.4	20.5	19.7
116.0	45.6	39.4	34.7	31.1	28.3	26.0	24.1	22.5	21.2	20.0	19.1	18.2	17.5
120.0	41.2	35.5	31.3	28.0	25.4	23.4	21.6	20.2	19.0	18.0	17.1	16.3	15.7
124.0	37.3	32.1	28.3	25.3	23.0	21.1	19.5	18.2	17.1	16.2	15.4	-	-
128.0	33.8	29.2	25.7	23.0	20.8	19.1	17.7	16.5	15.5	-	-	-	-
132.0	30.8	26.6	23.4	20.9	19.0	17.4	16.1	-	-	-	-	-	-

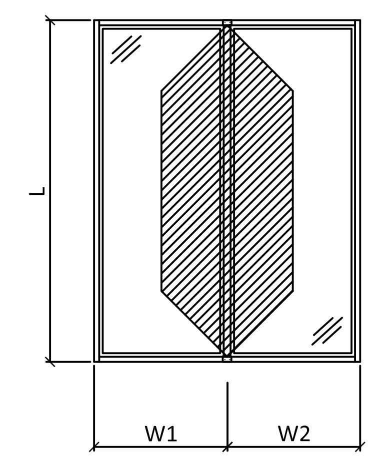
NOTE:

1) MULLION CHART APPLIES TO 1/2" MULL ASSEMBLIES.
2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
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 2.
6) TRIBUTARY WIDTH = W = (W1+W2)/2
7) REFER TO SECTION 8 FOR INSTALLATION DETAILS.
8) WHEN WINDOWS 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.



1/9.2 HORIZONTAL SECTION

1/2" MULLION
1/2" X 5" LVL



$$\frac{W1 + W2}{2} = W$$

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TITLE:
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MULLION TABLES

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REMARKS	BY	DATE
ADDED 1/2" MULL	HR	4.12.19

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FL #: FL25570

DATE: 9.05.17

DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

DWG. #: AWD230

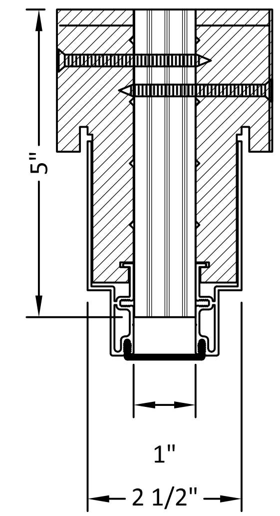
SECTION 9.1

E-SERIES DOORS 1" MULLION

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): FOR USE WITH E-SERIES DOORS 1" LVL MULLION ONE-WAY													
L - Mull Length (in)	W - Tributary Width (in)												
	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0	56.0	60.0	64.0	68.0	72.0
72.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
76.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.5	72.0	71.0	70.4
80.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.2	69.6	67.6	66.0	64.8	64.0
84.0	75.0	75.0	75.0	75.0	75.0	74.3	70.4	67.2	63.9	61.2	59.0	57.3	56.1
88.0	75.0	75.0	75.0	75.0	74.5	68.8	64.2	60.4	57.3	54.8	52.7	51.0	49.6
92.0	75.0	75.0	75.0	74.4	67.8	62.5	58.2	54.7	51.7	49.3	47.3	45.7	44.3
96.0	75.0	75.0	75.0	68.0	61.9	57.0	53.0	49.7	47.0	44.7	42.8	41.2	39.9
100.0	75.0	75.0	69.6	62.5	56.8	52.2	48.5	45.4	42.9	40.7	38.9	37.4	36.1
104.0	75.0	72.3	63.9	57.4	52.2	48.1	44.6	41.7	39.3	37.3	35.5	34.1	32.9
108.0	74.6	64.4	56.9	51.1	46.4	42.7	39.7	37.1	35.0	33.2	31.7	30.5	29.4
112.0	66.8	57.7	50.9	45.6	41.5	38.1	35.4	33.1	31.2	29.5	28.2	27.0	26.0
116.0	60.1	51.8	45.7	40.9	37.2	34.2	31.7	29.6	27.9	26.4	25.1	24.0	23.1
120.0	54.2	46.7	41.2	36.9	33.5	30.7	28.5	26.6	25.0	23.6	22.5	21.5	20.6
124.0	49.1	42.3	37.2	33.4	30.3	27.8	25.7	24.0	22.5	21.3	20.2	19.3	18.5
128.0	44.6	38.4	33.8	30.3	27.4	25.2	23.3	21.7	20.4	19.2	18.3	17.4	16.7
132.0	40.6	35.0	30.8	27.5	25.0	22.9	21.2	19.7	18.5	17.5	16.6	15.8	15.1

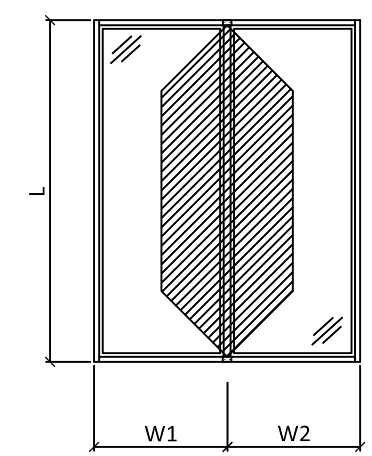
NOTE:

1) MULLION CHART APPLIES TO 1" MULL ASSEMBLIES.
2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
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 2.
6) TRIBUTARY WIDTH = W = (W1+W2)/2
7) REFER TO SECTION 8 FOR INSTALLATION DETAILS.
8) WHEN WINDOWS 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 / 9.4 HORIZONTAL SECTION

1" MULLION
1" X 5" LVL



$$\frac{W1 + W2}{2} = W$$

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

TITLE: E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
MULLION TABLES

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 1" MULL	HR	4.12.19

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: 9.05.17

DWG. BY: RV

CHK. BY: HFN

SCALE: NTS

DWG. #: AWD230

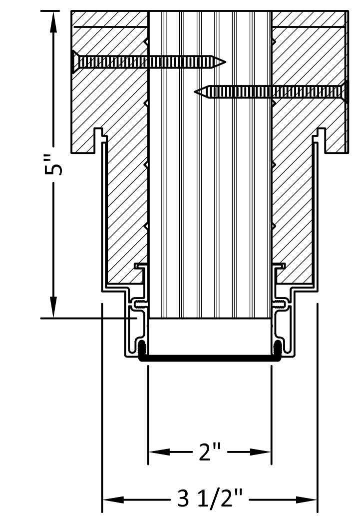
SECTION 9.2

E-SERIES DOORS 2" MULLION

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): FOR USE WITH E-SERIES DOORS 2" LVL MULLION ONE-WAY													
L - Mull Length (in)	W - Tributary Width (in)												
	24.0	***28.0***	***32.0***	***36.0***	***40.0***	***44.0***	***48.0***	***52.0***	***56.0***	***60.0***	***64.0***	***68.0***	***72.0***
72.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
76.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.5	72.0	71.0	70.4
80.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.2	69.6	67.6	66.0	64.8	64.0
84.0	75.0	75.0	75.0	75.0	75.0	74.3	70.4	67.2	64.7	62.6	60.9	59.6	58.7
88.0	75.0	75.0	75.0	75.0	74.5	69.8	66.0	62.9	60.3	58.3	56.6	55.2	54.2
92.0	75.0	75.0	75.0	75.0	70.4	65.8	62.1	59.1	56.6	54.5	52.8	51.4	50.3
96.0	75.0	75.0	75.0	72.2	66.7	62.3	58.7	55.7	53.2	51.2	49.5	48.1	46.9
100.0	75.0	75.0	75.0	68.7	63.4	59.1	55.6	52.7	50.3	48.3	46.6	45.2	44.0
104.0	75.0	75.0	72.0	65.5	60.3	56.2	52.8	50.0	47.6	45.7	44.0	42.6	41.4
108.0	75.0	75.0	68.9	62.6	57.6	53.6	50.3	47.5	45.3	43.3	41.7	40.3	39.1
112.0	75.0	73.9	66.0	59.9	55.1	51.2	48.0	45.3	43.1	41.2	39.6	38.2	37.1
116.0	75.0	71.0	63.4	57.5	52.8	49.0	45.9	43.3	41.1	39.3	37.7	36.4	35.2
120.0	75.0	68.3	60.9	55.2	50.7	47.0	43.7	40.8	38.4	36.3	34.5	33.0	31.7
124.0	75.0	64.9	57.2	51.2	46.5	42.6	39.5	36.8	34.6	32.7	31.1	29.7	28.4
128.0	68.4	59.0	51.9	46.5	42.1	38.6	35.7	33.3	31.3	29.5	28.0	26.8	25.6
132.0	62.3	53.7	47.3	42.3	38.3	35.1	32.5	30.3	28.4	26.8	25.4	24.2	23.2

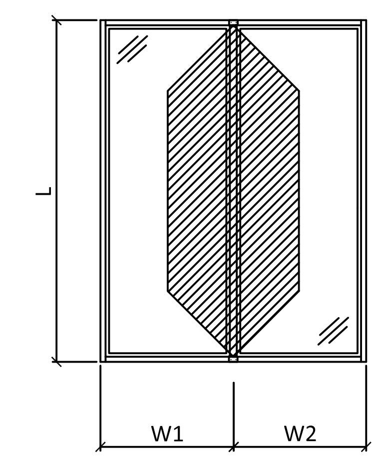
NOTE:

1) MULLION CHART APPLIES TO 2" MULL ASSEMBLIES.
2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/180.
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 2.
6) TRIBUTARY WIDTH = W = (W1+W2)/2
7) REFER TO SECTION 8 FOR INSTALLATION DETAILS.
8) WHEN WINDOWS 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 / 9.6 HORIZONTAL SECTION

2" MULLION
2" X 5" LVL



$$\frac{W1 + W2}{2} = W$$

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

TITLE: E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
MULLION TABLES

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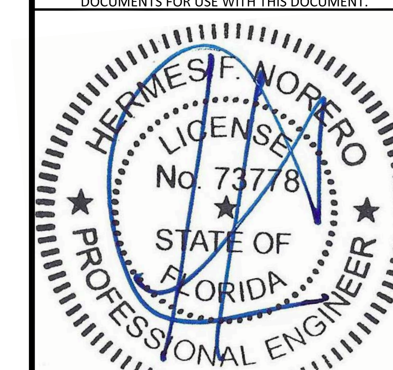
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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



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

FL #: FL25570

DATE: 9.05.17

DWG. BY: RV | CHK. BY: HFN

SCALE: NTS

DWG. #: AWD230

SECTION 9.3

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL
A	2X BUCK SG >= 0.55	WOOD
B	MASONRY — 3,192 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
C	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
D	3/8" MAX. SHIM SPACE	WOOD
E	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
P	#10 X 3" PFH WS	STEEL
R	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
1	JAMB	LVL/WOOD
2	MID STILE & RAIL	LVL/WOOD
3	MID STILE & RAIL CLADDING (6063—T6 ALUM.)	ALUMINUM
4	OUTSWING THRESHOLD	AL./COMP./WOOD
5	TOP RAIL	LVL/WOOD
6	BOTTOM RAIL	LVL/WOOD
7	HINGE STILE / WIDE SIDELITE STILE	LVL/WOOD
8	LATCH / ASTRAGAL STILE	LVL/WOOD
9	PANEL INSERT (PINE)	WOOD
10	PANEL INSERT CLADDING (6063—T6 ALUM.)	ALUMINUM
11	FRAME CLADDING (6063—T6 ALUM.)	ALUMINUM
12	TOP RAIL CLADDING (6063—T6 ALUM.)	ALUMINUM
13	WIDE STILE CLADDING (6063—T6 ALUM.)	ALUMINUM
14	BOTTOM RAIL CLADDING (6063—T6 ALUM.)	ALUMINUM
15	WEATHERSTRIP	—
16	18ga 1-1/4" BRAD NAIL	STEEL
17	18ga 1" BRAD NAIL	STEEL
18	4" HINGE	BRASS
19	3/4" X 4" DOWEL	WOOD
20	LATCH 8c DEADBOLT STRIKE PLATE	BRASS
21	#7 X 5/8" STRIKE PLATE SCREW PFH WS	BRASS
22	#12 X 2-1/2" HINGE TO JAMB SCREW PFH WS	BRASS
23	#10 X 5/8" HINGE TO JAMB PFH MACHINE SCREW	BRASS
24	#12 X 1-1/2" HINGE TO DOOR SCREW PFH WS	BRASS
25	#8 X 1-3/4" THRESHOLD PFH WS	STEEL
26	RAIL WEATHERSTRIP CLIP (6063—T6 ALUM.)	ALUMINUM
27	PANEL WEATHERSTRIP	PVC
30	WOOD BUSHING INSERT FOR #10 MACH. SCREW	STEEL
31	#8 X 3" PFH WS	STEEL
32	GLASS STOP CLEAR PINE SG = .42 OR BETTER	WOOD
33	TRIM/PANEL STOP CLEAR PINE SG = .42 OR BETTER	WOOD
34	BOTTOM RAIL CLIP	STEEL
36	OUTSWING THRESHOLD (SIDELITE)	AL./COMP./WOOD
37	SEALANT	SILICONE
38	#8 X 3/4" CLIP TO JAMB / THRESHOLD PFH WS	STEEL
39	#8 X 3/4" CLIP TO BOTTOM RAIL PFH WS	STEEL
40	RETAINING CLIP	VINYL
41	#8 X 3/4" RETAINING CLIP TO STILE / TOP RAIL PPH SMS	STEEL
42	ASTRAGAL	WOOD

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL
43	ASTRAGAL CLADDING (6063—T6 ALUM.)	ALUMINUM
44	GU TYPE 2 FLUSH BOLT HARDWARE	-
45	GU EAGLE MULTI—POINT LOCK ASSEMBLY	-
46	2" MULLION BLOCK	LVL
47	SIDELITE STILE (NARROW)	LVL/WOOD
52	#12 X 1-1/4" SURFACE BOLT TO DOOR PFH WS	BRASS
54	BACKER ROD	NEOPRENE
55	2" MULLION CAP (6063—T6 ALUM.)	ALUMINUM
56	#7 X 1-1/4" LOCK ASSEMBLY SCREW PFH WS	ST. STEEL
58	#8 X 2" ASTRAGAL SCREW	ST. STEEL
59	SURFACE BOLT	BRASS
60	SURFACE BOLT STRIKE PLATE	BRASS
61	FLUSH BOLT STRIKE PLATE AT HEAD & SILL	ST. STEEL
63	#12 X 1-1/2" STRIKE PLATE SCREW	BRASS
64	#10 X 2-1/2" STRIKE PLATE SCREW (HEAD)	STEEL
65	SIDELITE STILE CLADDING (NARROW) (6063—T6 ALUM.)	ALUMINUM
66	SASH SEALANT	SILICONE
69	MULTI—POINT STRIKE PLATE	BRASS
74	#12 X 3" STRIKE PLATE SCREW	BRASS
84	#8 X 5/8" PFH SMS	STEEL
85	#8 X 1-1/2" PFH SMS	STEEL
86	STRAP ANCHOR 1.625" X 8.5" X 0.039" THK.	STEEL
101	ADHESIVE TAPE	POLYETHYLENE
102	SEALANT BUTYL TAPE	BUTYL RUBBER
103	PECORA 896 SEALANT	SILICONE
104	GLASS SETTING BLOCK	NEOPRENE
105	GLAZING SHIM	-
106	.094 x .265 BUTYL TAPE	-
150	1-1/2" INTERIOR COLONIAL MDL BAR	WOOD
151	1-1/2" EXTERIOR MDL BAR (6063—T6)	ALUMINUM
152	STILE & TALL RAIL CLADDING TRANSOM	(6063—T6 ALUM.)
153	1-1/2" MDL ADHESIVE TAPE (EXTERIOR TAPE)	POLYETHYLENE
154	1-1/8" INTERIOR COLONIAL MDL BAR	WOOD
155	1-1/8" EXTERIOR MDL BAR (6063—T6)	ALUMINUM
156	1-1/8" MDL ADHESIVE TAPE (EXTERIOR TAPE)	POLYETHYLENE
157	1-1/8" MDL ADHESIVE TAPE (EXTERIOR TAPE)	POLYETHYLENE
158	7/8" INTERIOR COLONIAL MDL BAR	WOOD
159	7/8" EXTERIOR MDL BAR (6063—T6)	ALUMINUM
160	7/8" MDL ADHESIVE TAPE (EXTERIOR TAPE)	POLYETHYLENE
161	7/8" MDL ADHESIVE TAPE (INTERIOR TAPE)	POLYETHYLENE
162	1/2" x 1" GC20 CORRUGATED	POLYETHYLENE
163	ZERO MULLION BLOCK	LVL
164	1/2" MULLION BLOCK	LVL
165	1" MULLION BLOCK	LVL
166	1/2" MULLION CAP	LVL
167	1" MULLION CAP	LVL

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TITLE:
E-SERIES HINGED PATIO DOOR - OUTSWING (IMPACT) (HVHZ)
BILL OF MATERIALS

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REMARKS	BY	DATE
ADDED ZERO, 1/2" & 1" MULL	HR	4.12.19

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SECTION 10.0