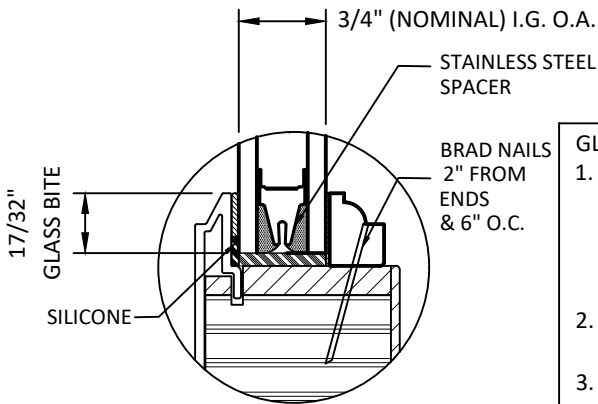


ANDERSEN CORPORATION

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

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: *ALUMINUM CLAD WOOD*.
7. MULLION MATERIAL: *LAMINATED VENEER LUMBER*.
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 . SEE SHEET 1 FOR GLAZING DETAILS.
9. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
10. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



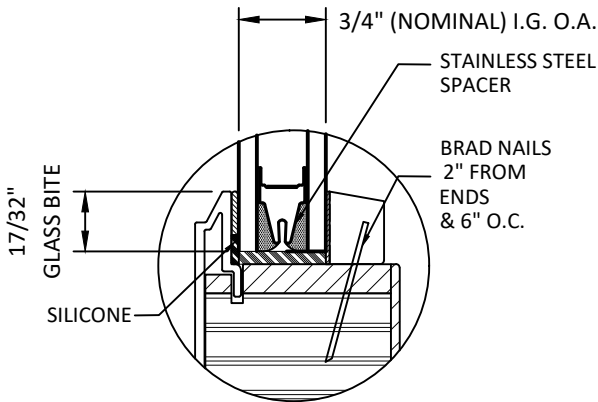
GLAZING DETAIL - G1

SHOWN WITH COLONIAL GLASS STOP

GLAZING NOTES:

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

GLASS STOP PROFILES
ARE INTERCHANGEABLE



GLAZING DETAIL - G2

SHOWN WITH CONTEMPORARY GLASS STOP

TABLE OF CONTENTS

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



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

TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON 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 UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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

FL #:
FL25570

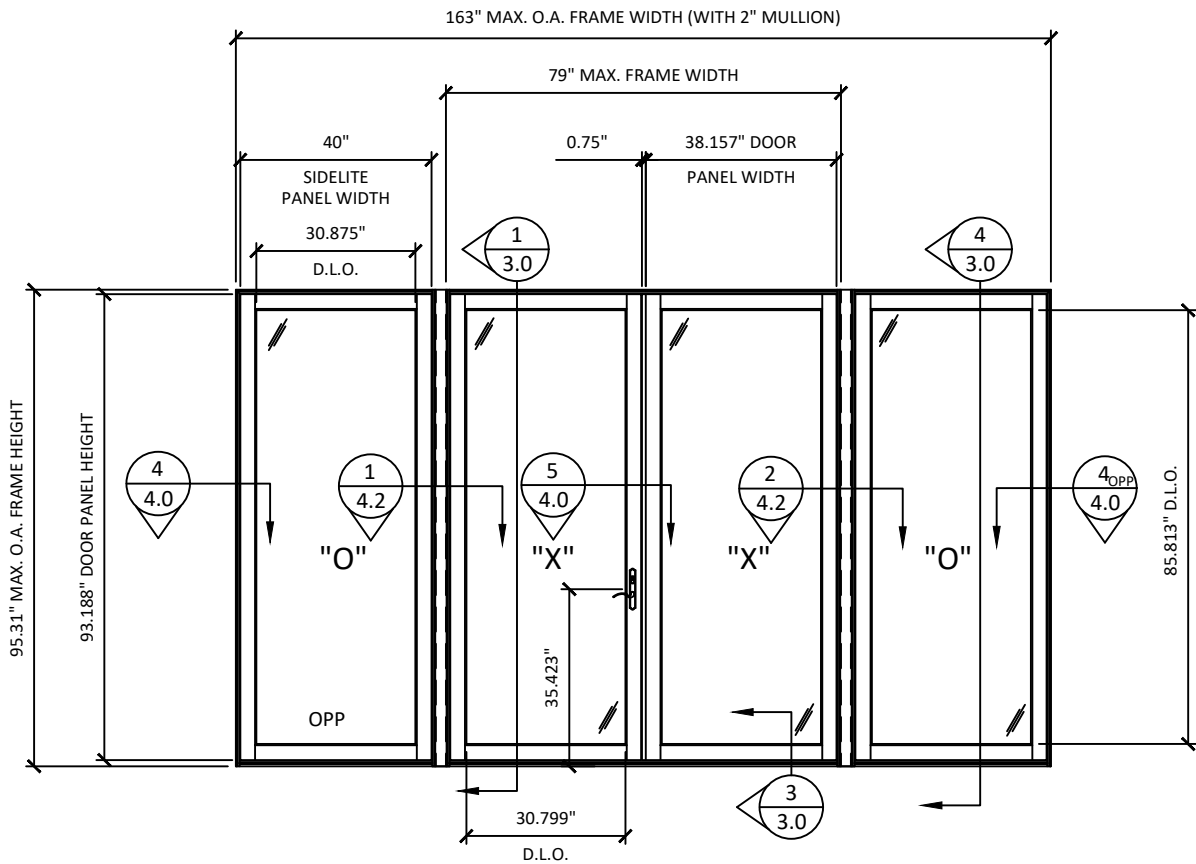
DATE: **10.02.17**

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

SCALE: **NTS**

DWG. #: **AWD185**

SECTION
1.0



ELEVATION
OUTSWING DOOR WITH 2" MULLION

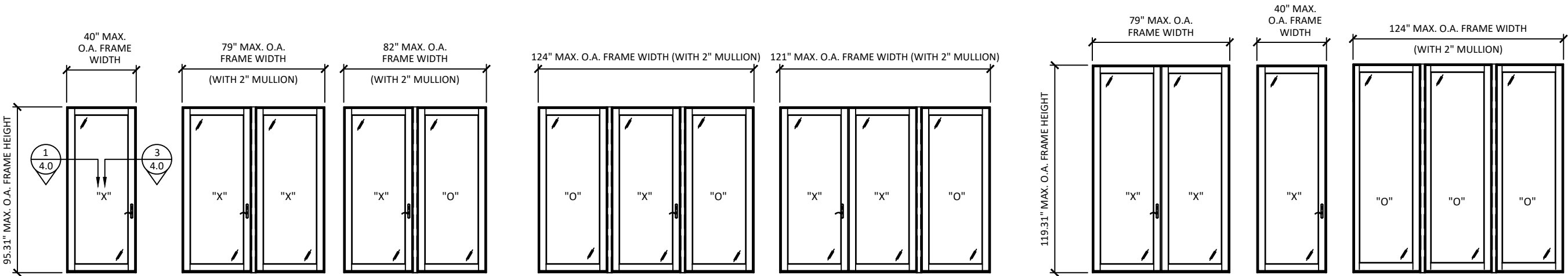
CONFIGURATION	WIDTH	HEIGHT	PANEL TYPE	PG RATING	STRUCTURAL DESIGN PRESSURE	PASSIVE LOCK
X	40.0	95.3	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 60	+/-60	N/A
X	40.0	101.3	SP1, SP2, SP4, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2	PG 50	+/-50	N/A
X	40.0	119.3	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1	PG 50	+/-50	N/A
X	40.0	119.3	SP4, SP5	PG 45	+/-50	N/A
XX	75.0	95.3	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 30	+/-30	Option 4
XX	79.0	95.3	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 60	+/-60	Option 1,2,3
XX	79.0	119.3	SP1, SP2, SP4, SP5, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 40	+/-40	Option 1,2,3
OO	79.0	95.3	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 60	+/-60	N/A
OO	79.0	95.3	SP4, SP5	PG 50	+/-50	N/A
X	24.5	95.3	SL1, SL2, SL1R1, SL1R2, SL2R3, SL1M1, SL1M2, SL2M1	PG 50	+/-50	Vent SLDT Lock
O	40.0	119.3	SP1, SP2, SP1R1, SP1R2, SP2R3, SP1M1, SP1M2, SP2M1, SP2M2, SP2M3	PG 75	+75/-80	N/A
O	40.0	119.3	SP5, SP4	PG 50	+/-50	N/A
O	79.0	24.0	ST1, ST2, ST3, ST4, ST5	PG 80	+/-80	N/A

* LOW THRESHOLD SILLS HAVE DP 0 WATER RATING

NOTE:

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

OTHER QUALIFIED CONFIGURATIONS



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ELEVATIONS & CONFIGURATIONS

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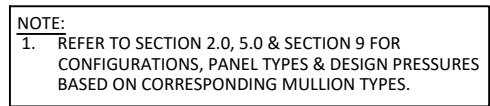
REMARKS	BY	DATE
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GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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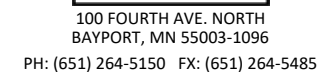
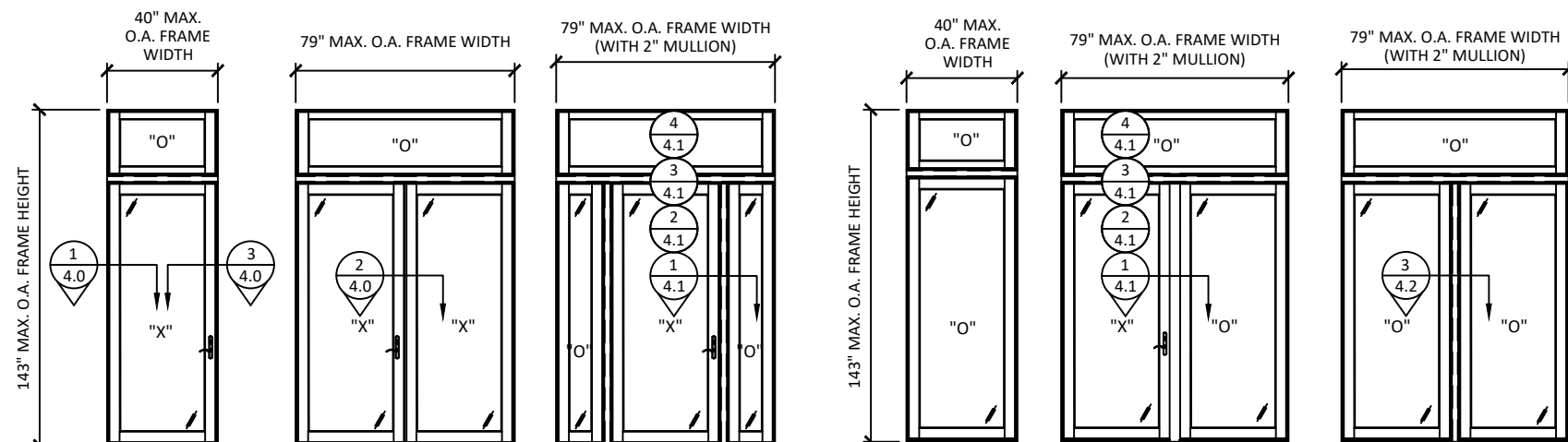
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DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	2.0



ELEVATION

OUTSWING DOOR WITH TRANSOM & 2" MULLION

OTHER QUALIFIED CONFIGURATIONS



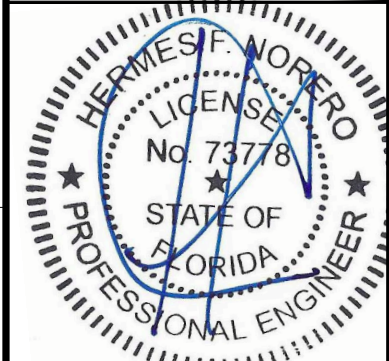
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
MULLED ELEVATIONS

PREPARED BY:

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DANIA BEACH, FL 33004
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FL #: **FL25570**

DATE: 10.02.17

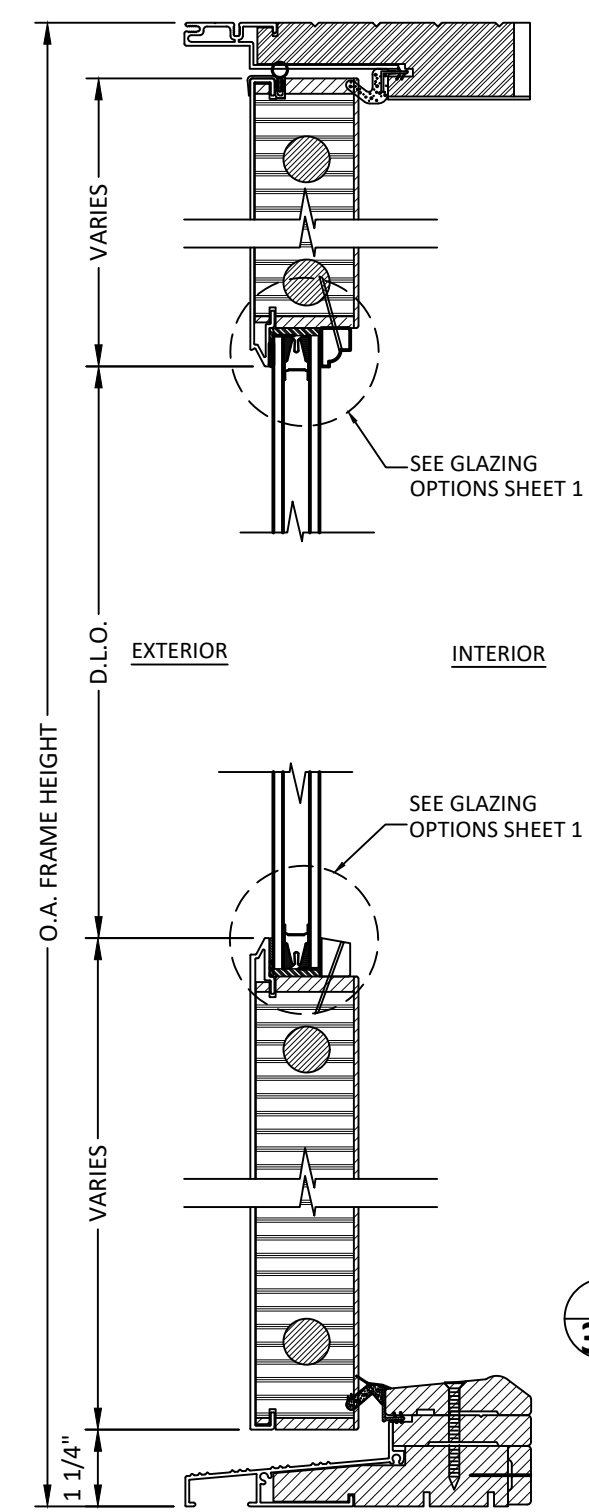
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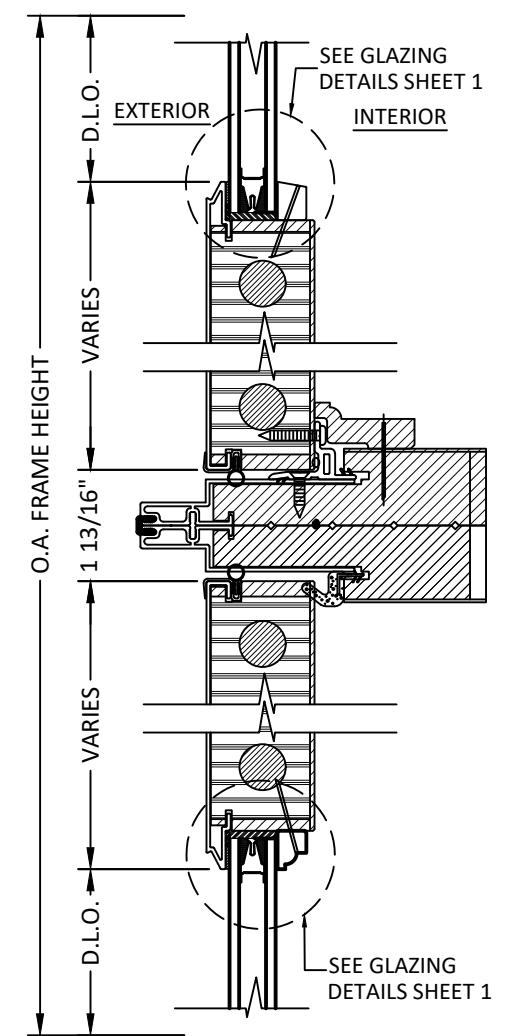
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SECTION 2.1

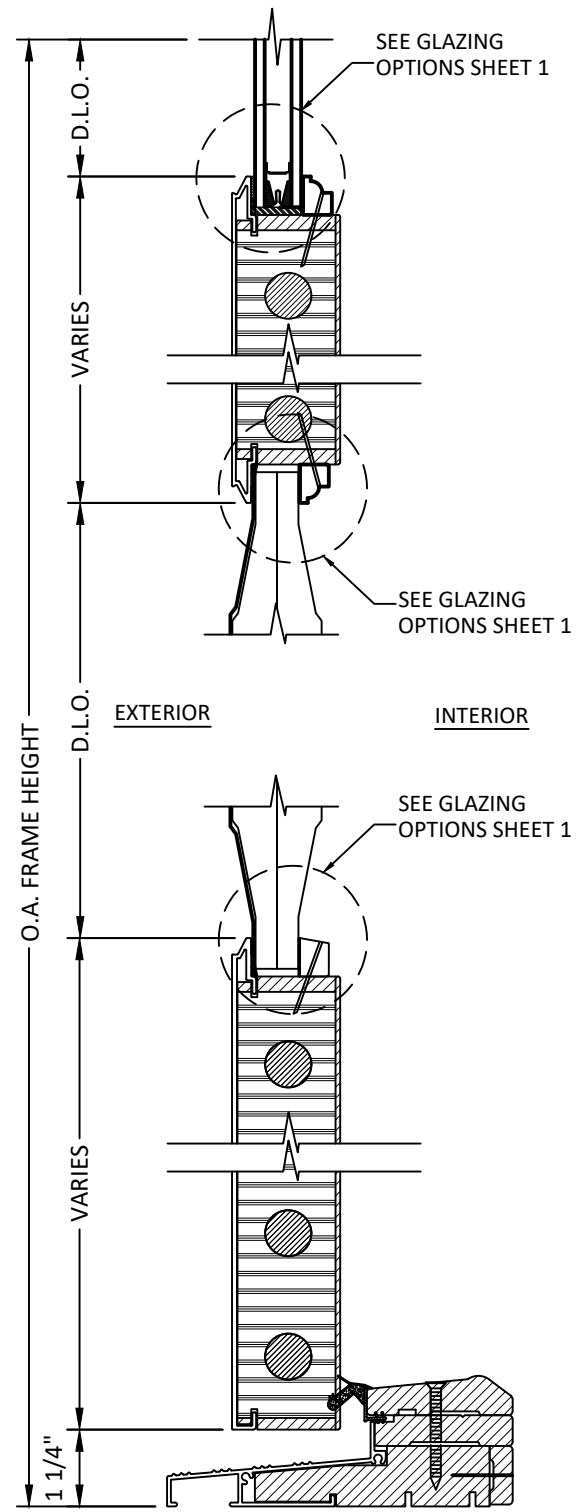
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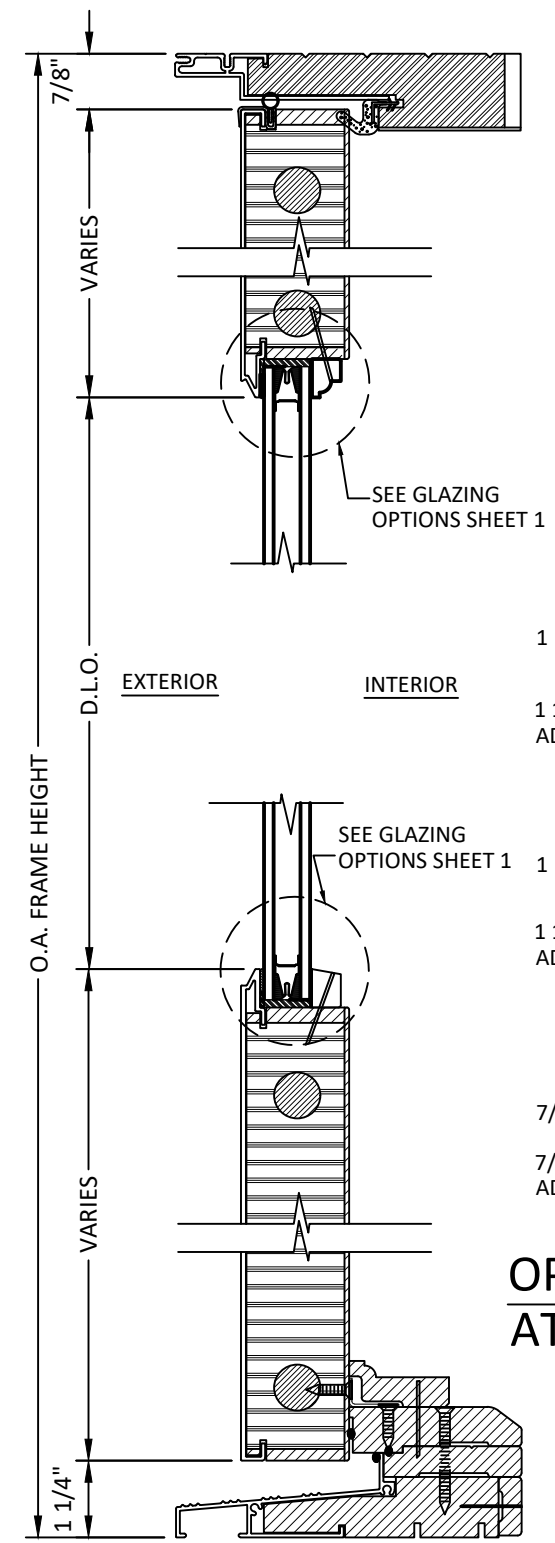
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3.0 **VERTICAL SECTION**
FULL GLAZED PANEL



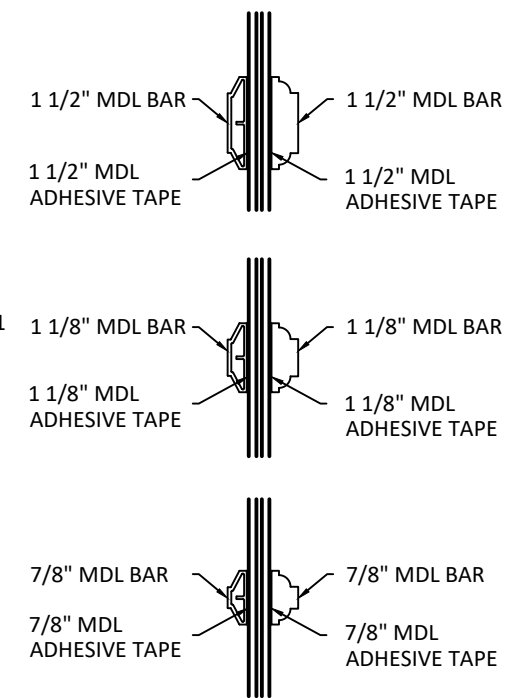
2
3.0 **VERTICAL SECTION**
INSULATED GLASS
ZERO MULLION



3
3.0 **VERTICAL SECTION**
PANEL WITH MID RAIL



4
3.0 **VERTICAL SECTION**
FULL GLAZED SIDELITE



**OPTIONAL MUNTIN BAR
ATTACHMENT TO GLASS**



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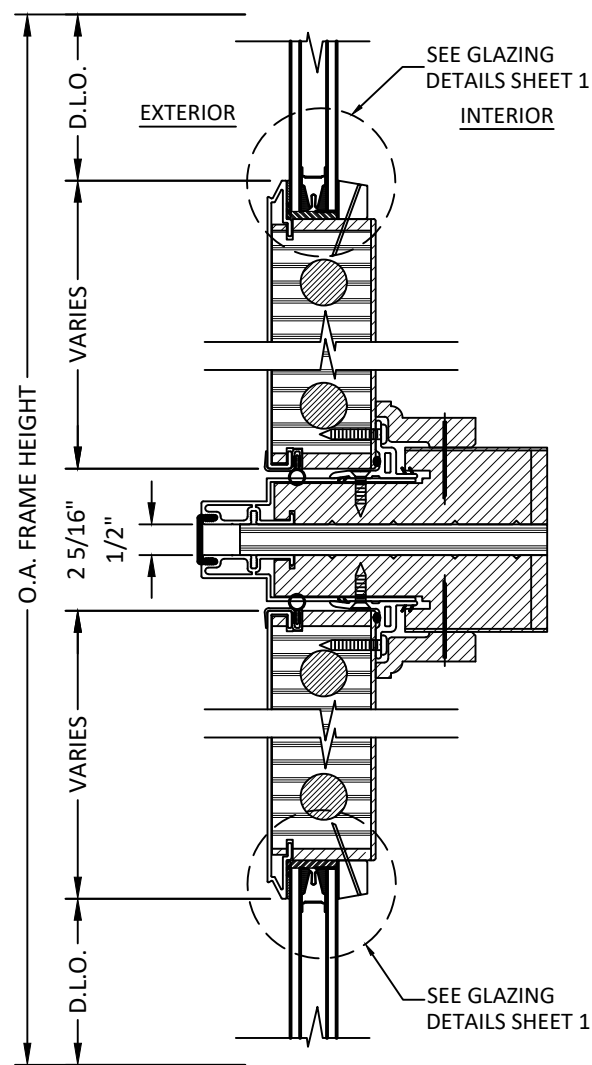
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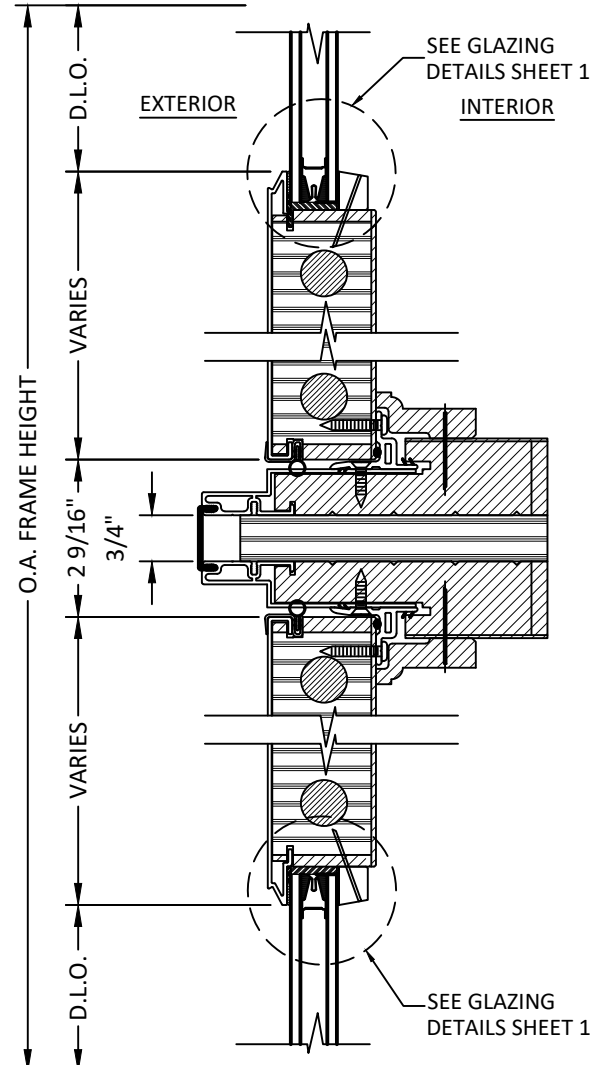


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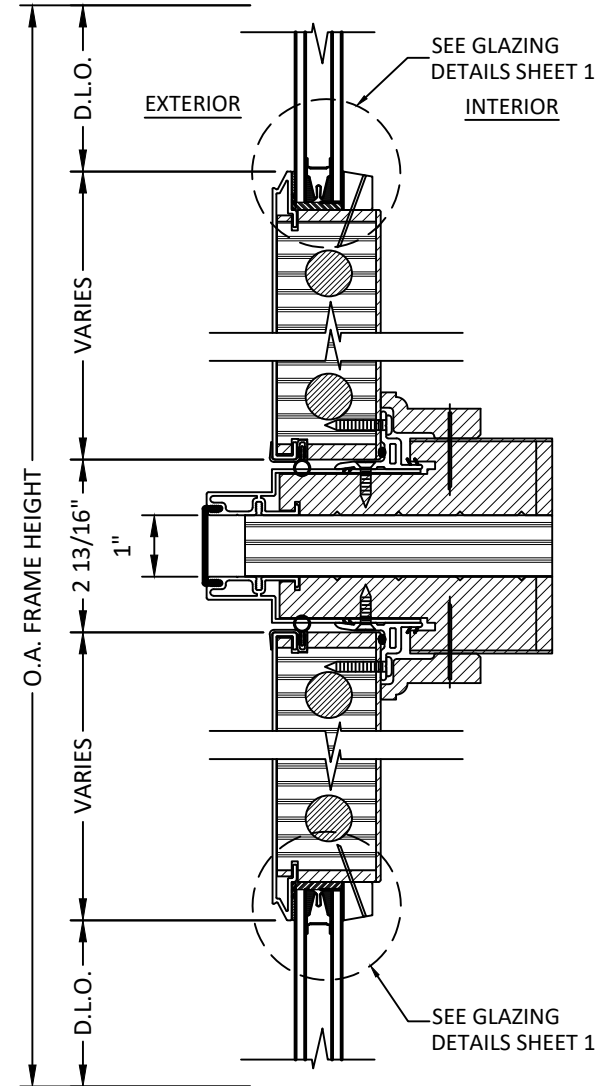
FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	3.0



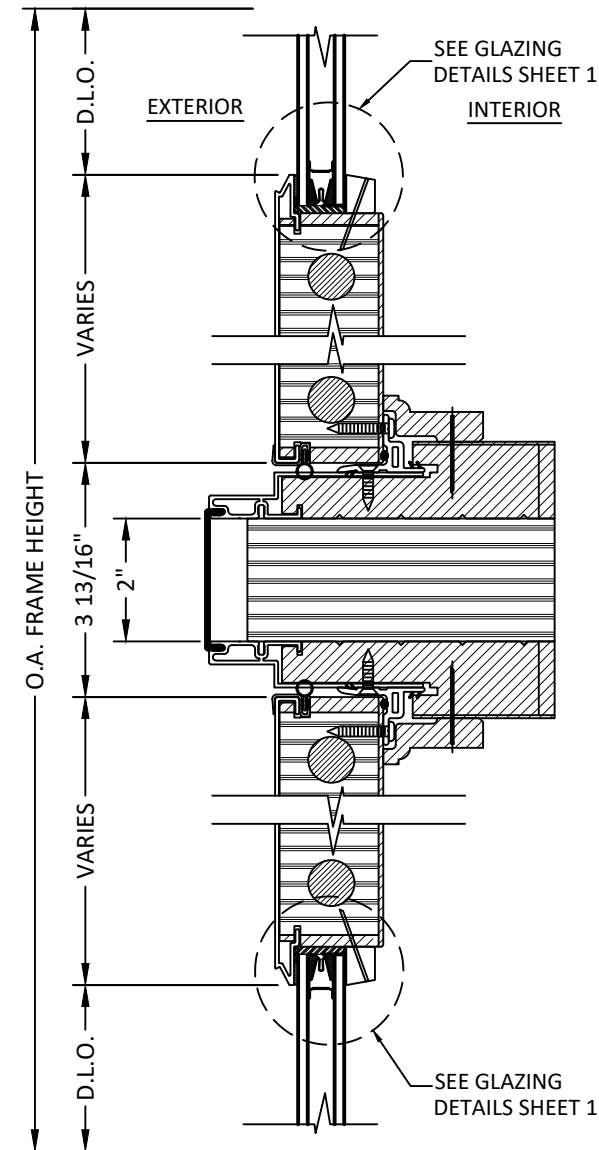
1
3.1 **VERTICAL SECTION**
INSULATED GLASS
1/2" X 5-3/16" MULLION



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



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



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



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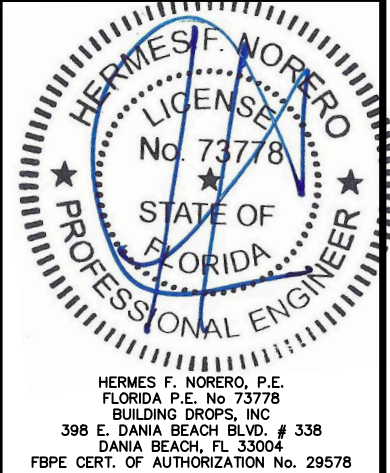
TITLE:
**E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
VERTICAL SECTIONS**

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

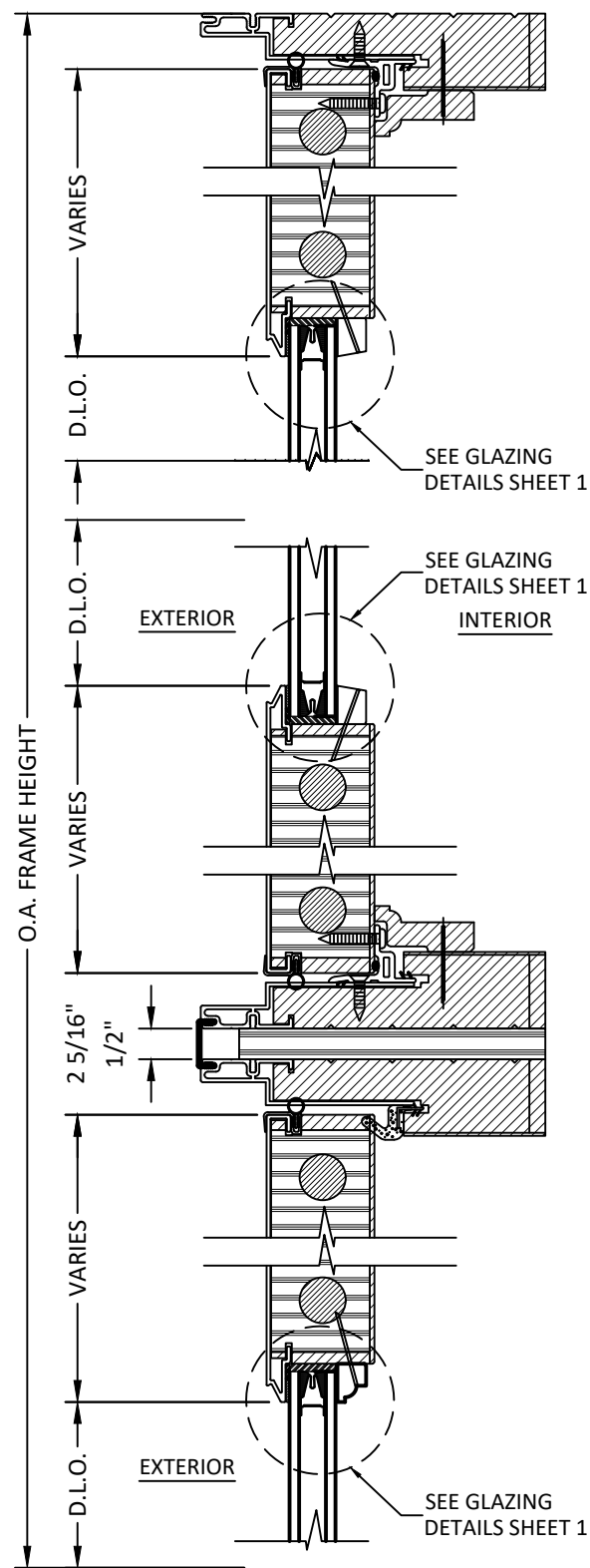


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MULL & DP CHARTS UPDATE	LL	8.14.19

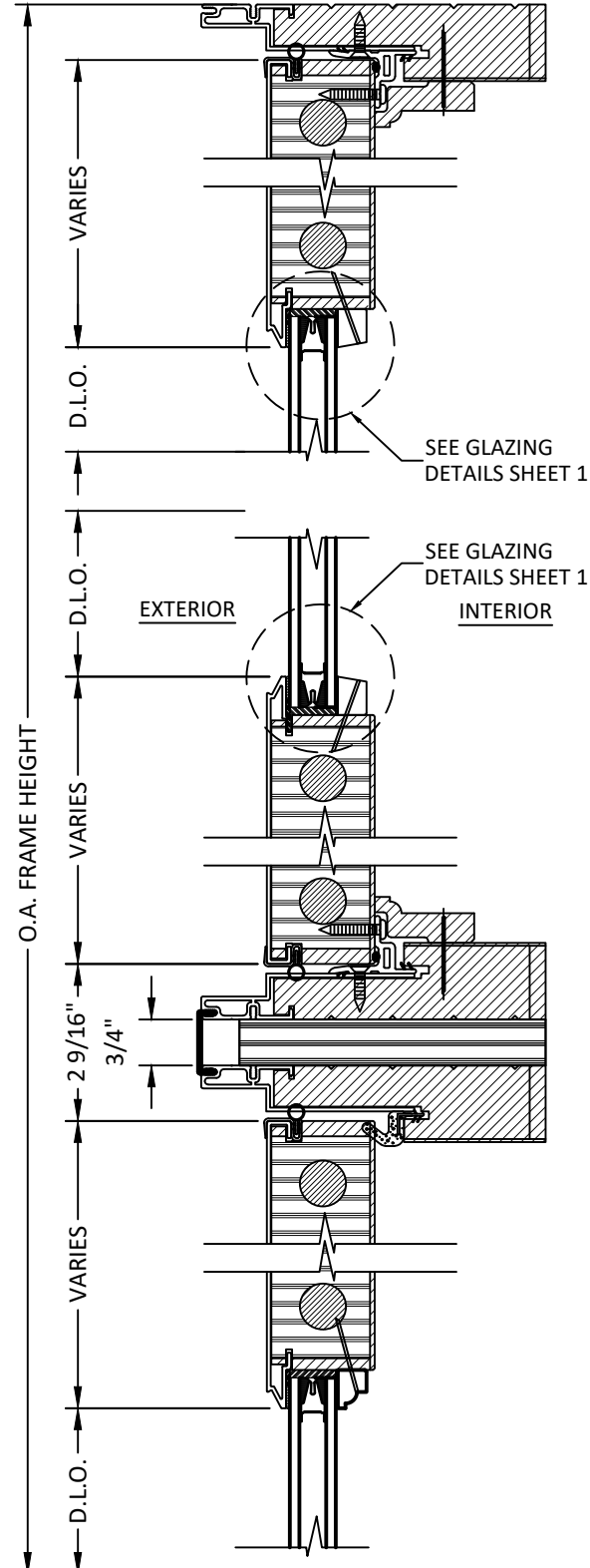
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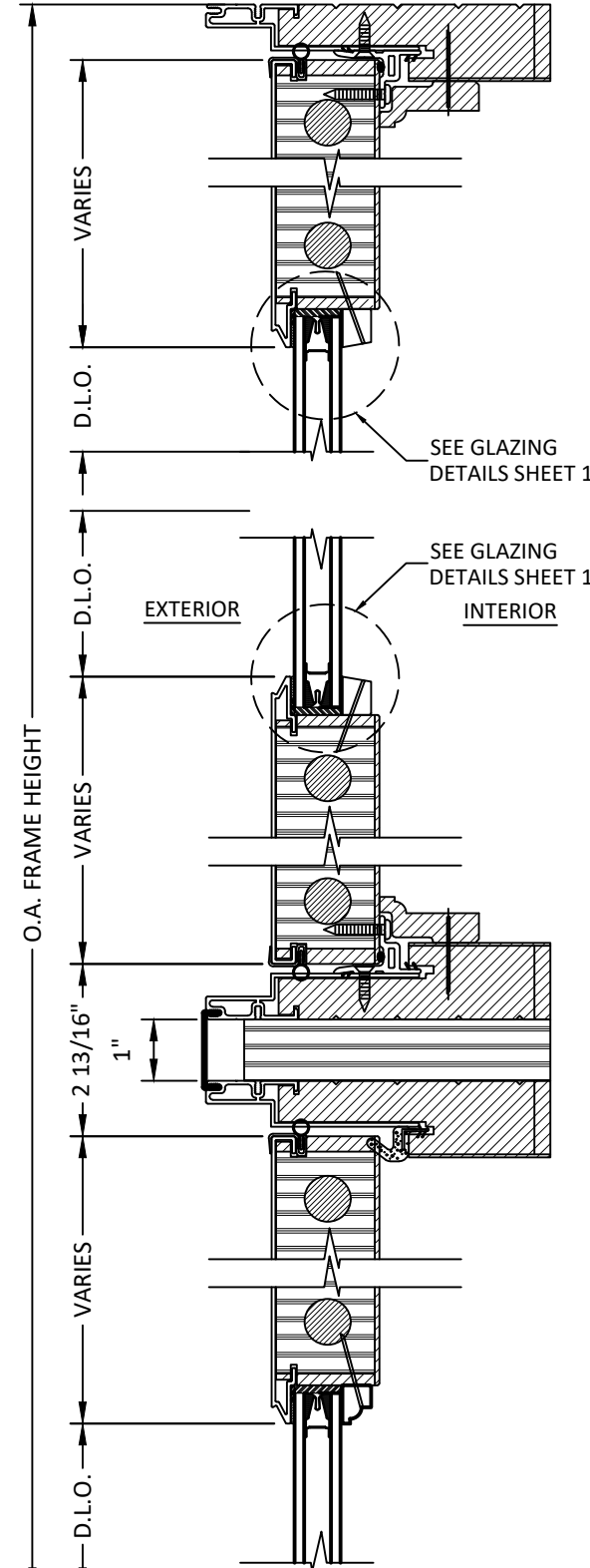
FL #:	FL25570
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DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	3.1



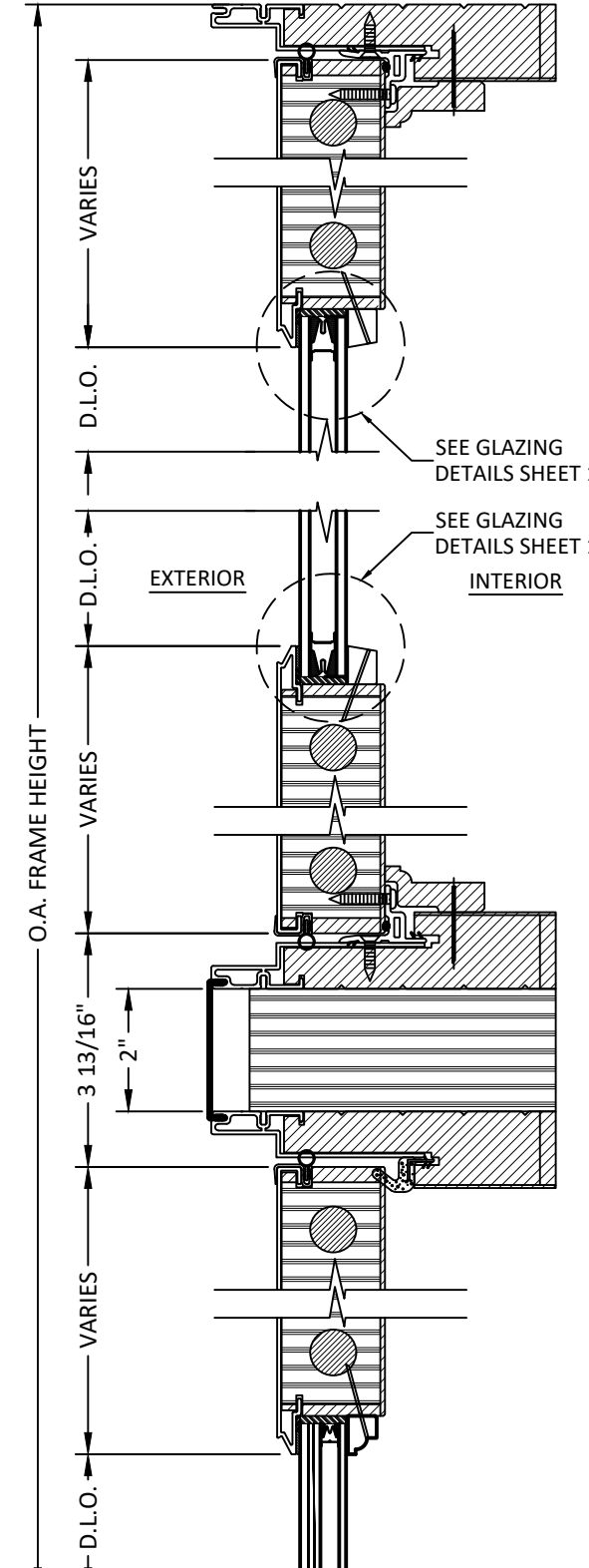
1
3.2 VERTICAL SECTION
TRANSOM HEAD WITH INSULATED GLASS
1/2" X 5-3/16" MULLION



2
3.2 VERTICAL SECTION
TRANSOM HEAD WITH INSULATED GLASS
3/4" X 5-3/16" MULLION



3
3.2 VERTICAL SECTION
TRANSOM HEAD WITH INSULATED GLASS
1" X 5-3/16" MULLION



4
3.2 VERTICAL SECTION
TRANSOM HEAD WITH INSULATED GLASS
2" X 5-3/16" MULLION



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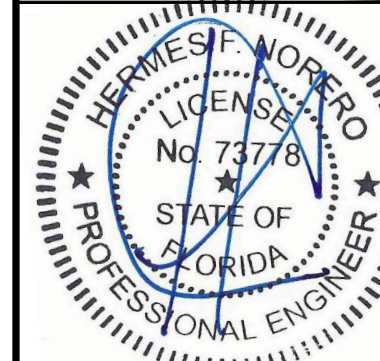
TITLE:
**E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
VERTICAL SECTIONS**

PREPARED BY:
BUILDING DROPS, INC.
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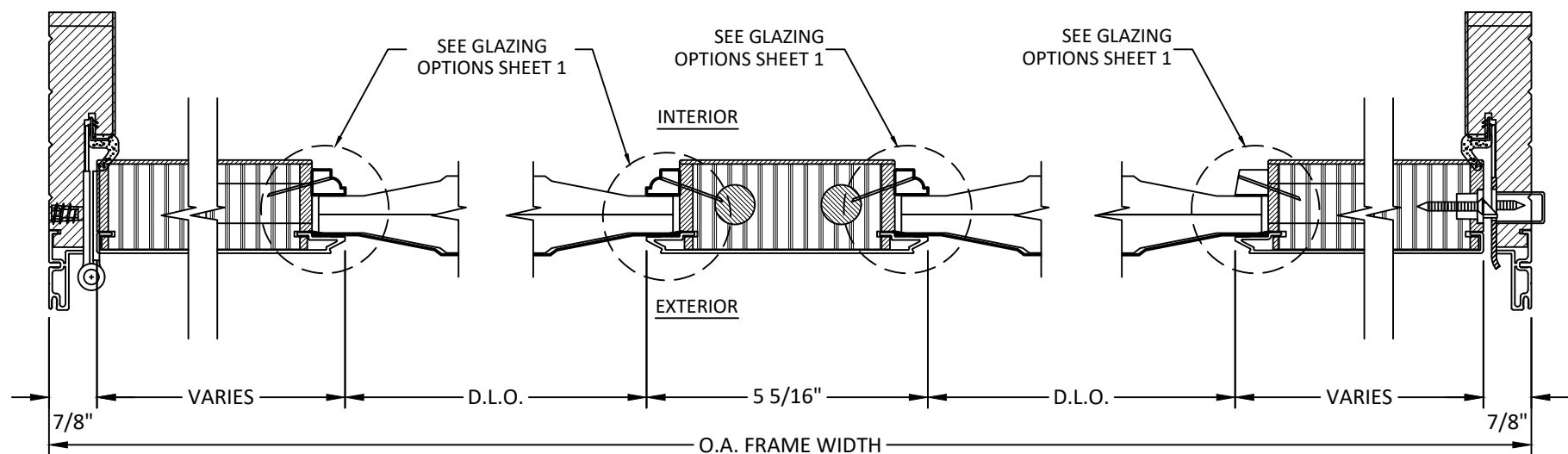
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SECTION
3.2

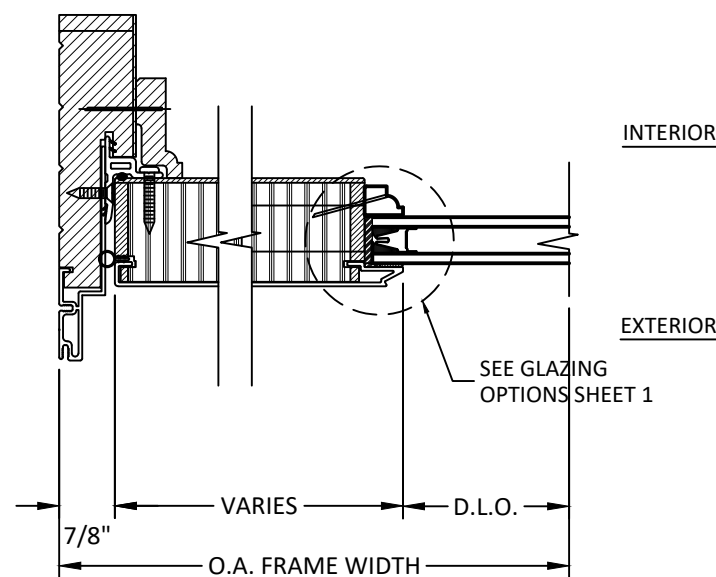
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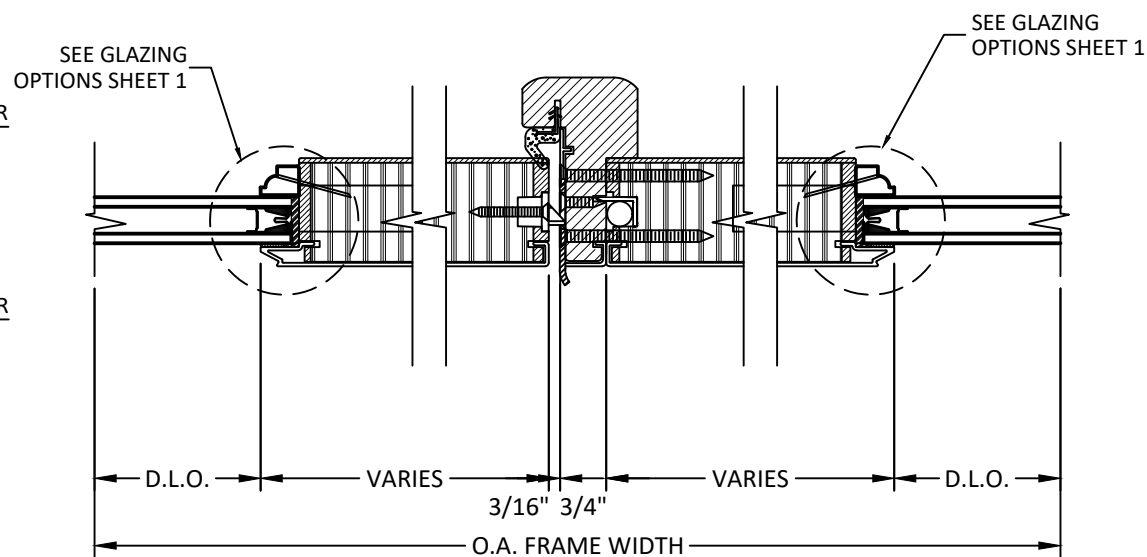
1
4.0 **HORIZONTAL SECTION**
HINGE JAMB
WOOD PANEL INSERT

2
4.0 **HORIZONTAL SECTION**
MULLION
WOOD PANEL INSERT

3
4.0 **HORIZONTAL SECTION**
LOCK JAMB
WOOD PANEL INSERT



4
4.0 **HORIZONTAL SECTION**
SIDELITE JAMB



5
4.0 **HORIZONTAL SECTION**
ASTRAGAL



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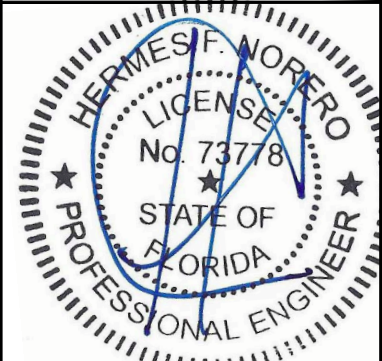
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E-SERIES HINGED PATIO DOOR
OUTSWING
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HORIZONTAL SECTIONS

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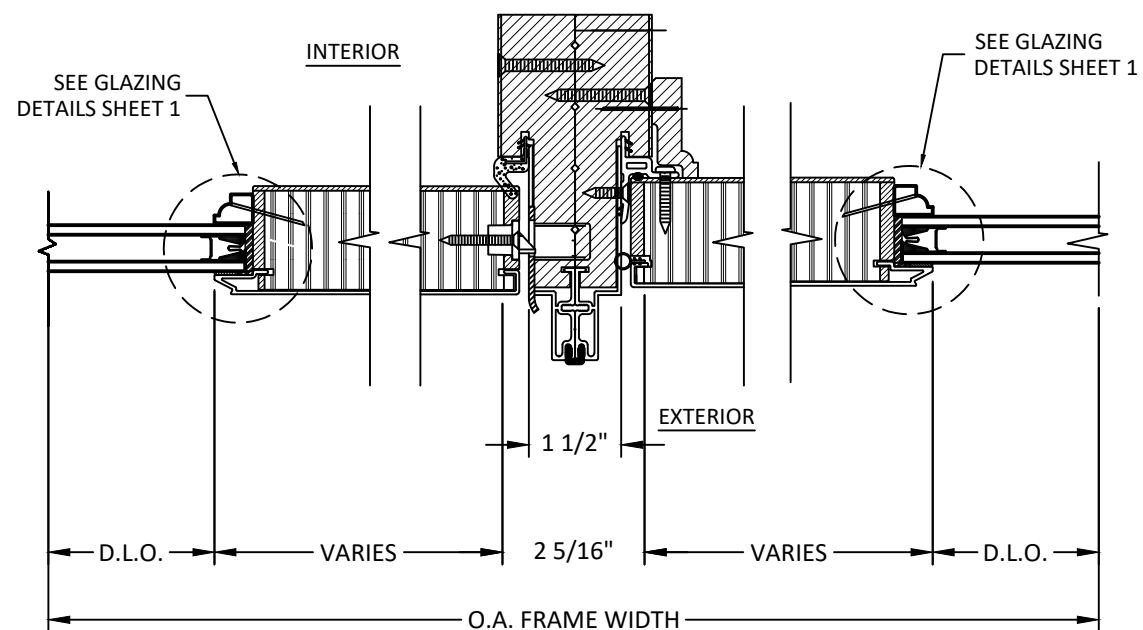
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SCALE: **NTS**

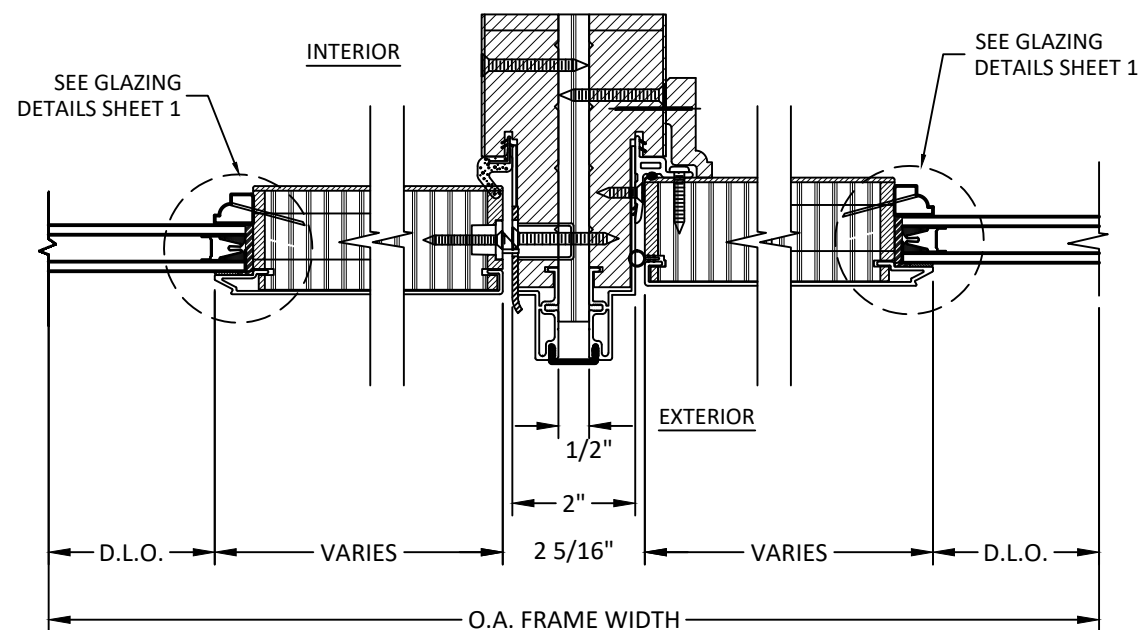
DWG. #: **AWD185**

SECTION
4.0

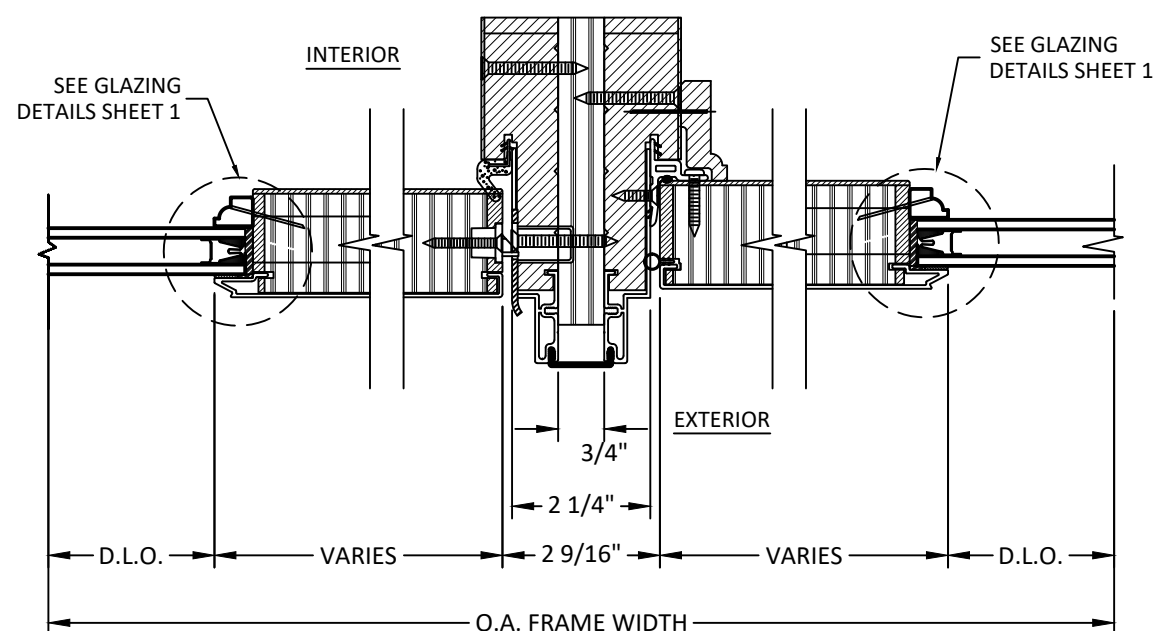


1 HORIZONTAL SECTION

4.1 ZERO MULLION OPERABLE TO FIXED

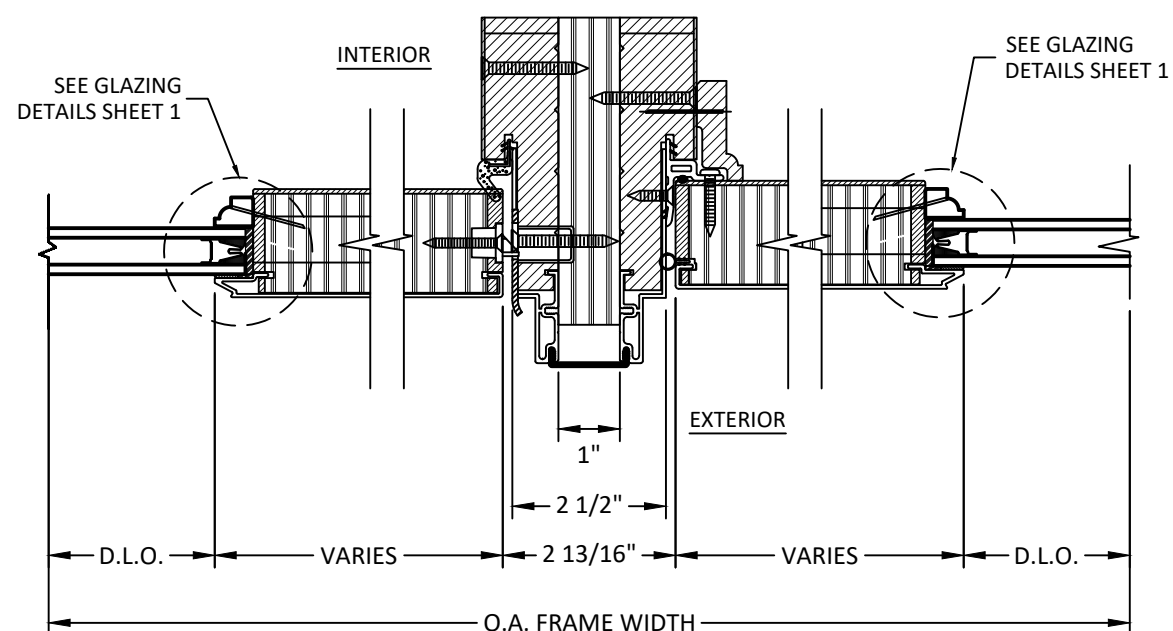


2 HORIZONTAL SECTION
4.1 1/2" X 5-3/16" MULLION
OPERABLE TO FIXED



3 HORIZONTAL SECTION

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



4 HORIZONTAL SECTION

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



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

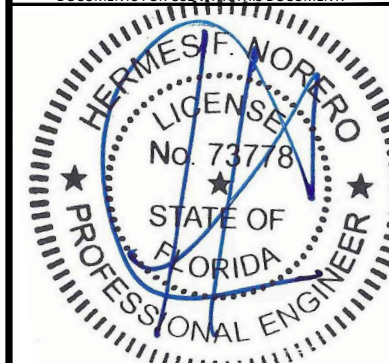
PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)395-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.18

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

FL #: **FL25570**

DATE: 10.02.17

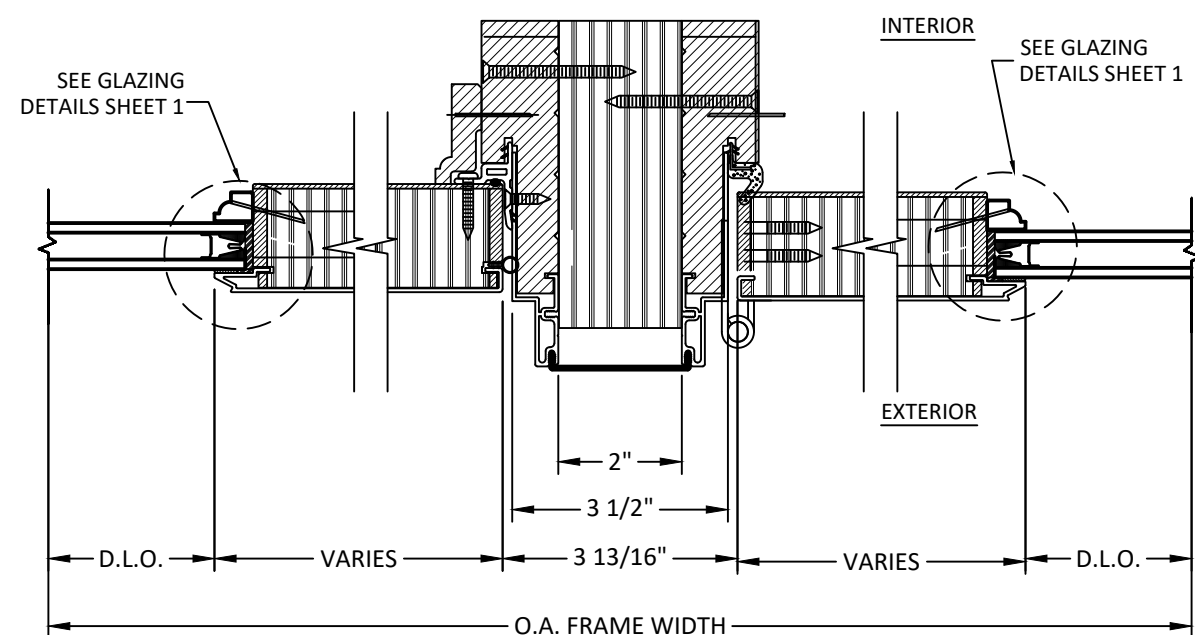
DWG. BY: RV	CHK. BY: HFN
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SCALE: NTS

DWG. #: AWD185

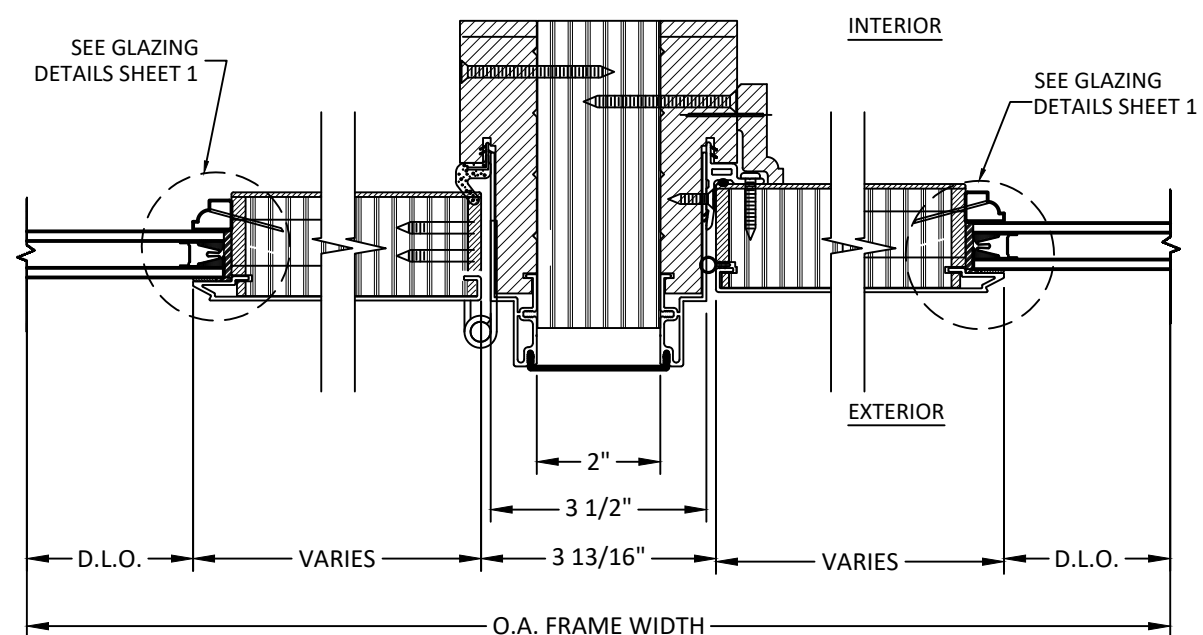
SECTION

4.1

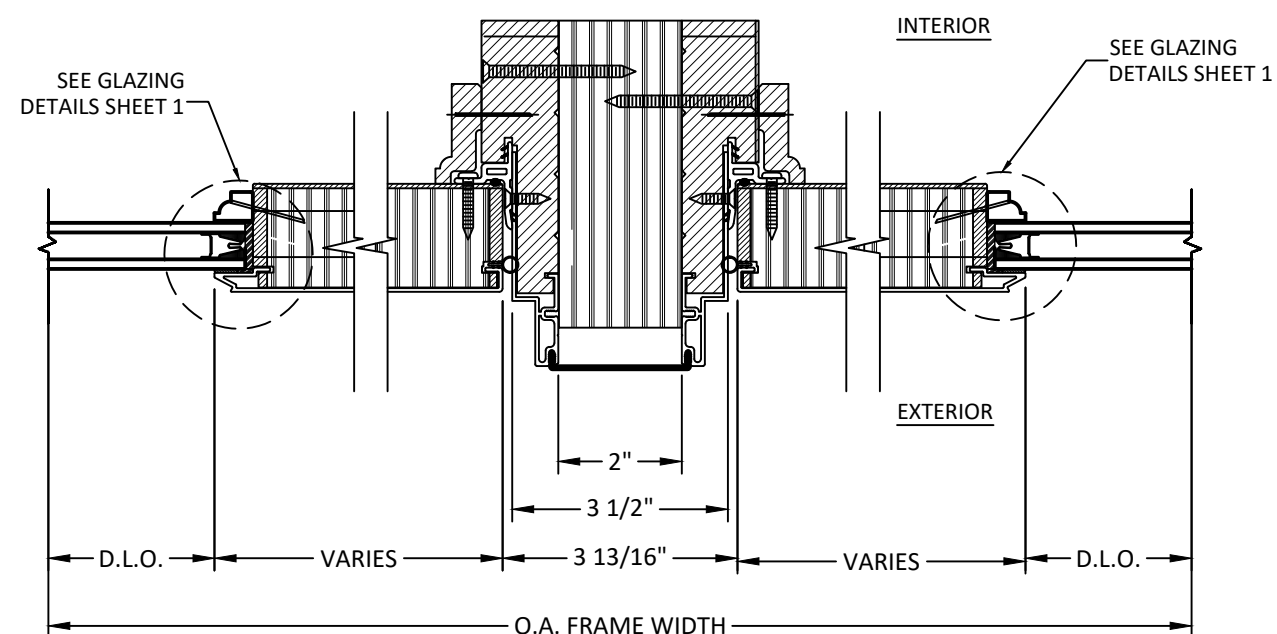


1 HORIZONTAL SECTION

4.2 2" MULLION FIXED TO OPERABLE



2 HORIZONTAL SECTION
4.2 2" MULLION
 OPERABLE TO FIXED



3 HORIZONTAL SECTION

2" MULLION
FIXED TO FIXED LITE



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

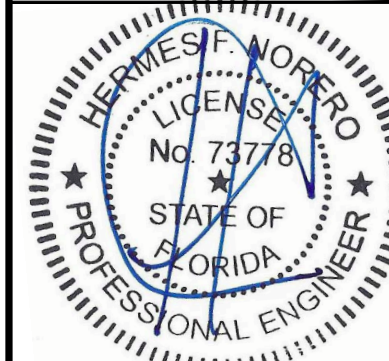
PREPARED BY:

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FL #: **FL25570**

DATE: 10.02.17

DWG. BY: RV	CHK. BY: HFN
-----------------------	------------------------

SCALE: NTS

DWG. #: AWD185

SECTION

4.2

8/15/2019 11:50 AM

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PANELS & SIDELITES TYPES

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

SP1

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

SP2

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

SP4

4 11/16" STILES & RAILS

SP5

3 11/16" STILES & RAILS

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

SP1R3

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

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

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

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

1.672"

0.25"

11.375"

0.19"

0.075"

① BOTTOM RAIL

1.672"

0.25"

7.375"

0.19"

0.075"

② BOTTOM RAIL

1.688"

0.25"

4.063"

0.25"

③ TOP RAIL & STILE

1.688"

0.25"

3.063"

0.25"

④ TOP RAIL & STILE

1.688"

0.25"

0.25"

0.25"

⑤ STILE

ALLOWABLE SHAPES

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
(NON IMPACT) (NON HVHZ)
PANELS & SIDELITES DETAILS

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REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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

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

FL #:

FL25570

DATE:

10.02.17

DWG. BY:

RV

CHK. BY:

HFN

SCALE:

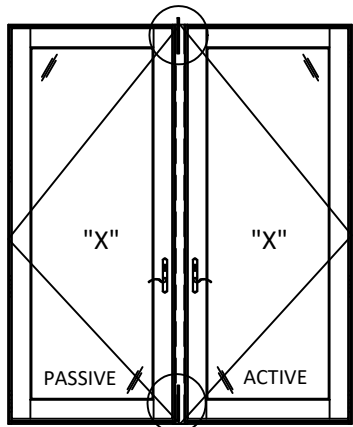
NTS

DWG. #:

AWD185

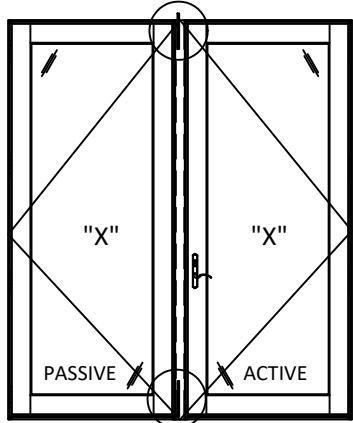
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5.0



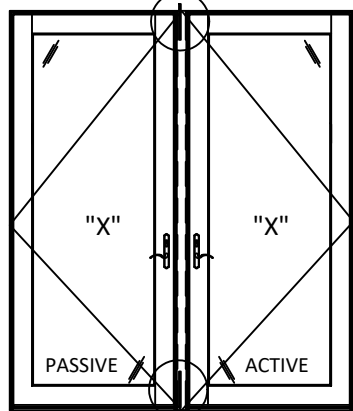
**OPTION 1
(AW HARDWARE)**

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



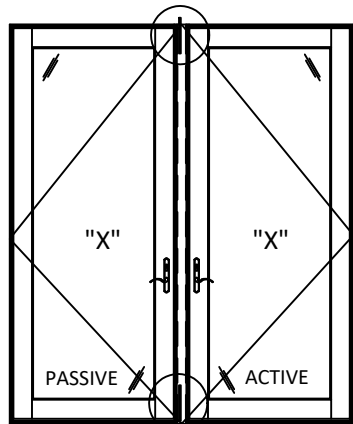
**OPTION 2
(TYPE I)**

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



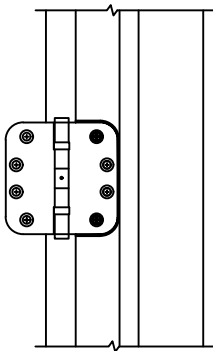
**OPTION 3
(TYPE II)**

ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 92MM LOCK TO HANDLE SPACING, 45 MM LOCK/HANDLE BACKSET.
PASSIVE LEAF:
MANUALLY OPERATED MORTISE LEVER SHOOT BOLT THROUGH ASTRAGAL. DUMMY HANDLE



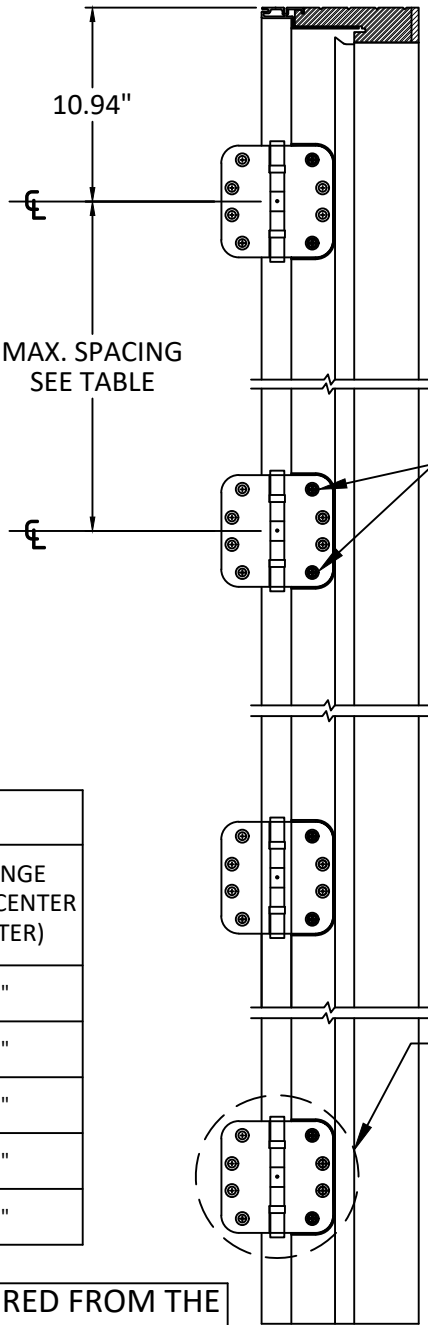
**OPTION 4
(TYPE III)**

ACTIVE LEAF:
AUTOLATCH® MULTIPOINT LOCK SYSTEM, 92MM LOCK TO HANDLE SPACING, 45 MM LOCK/HANDLE BACKSET.
PASSIVE LEAF:
HANDLE OPERATED SHOOT BOLT THROUGH THE HANDLE, THUMB TURN LOCK LIMITED PERFORMANCE FOR OPTION 4



HINGE DETAIL

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



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

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

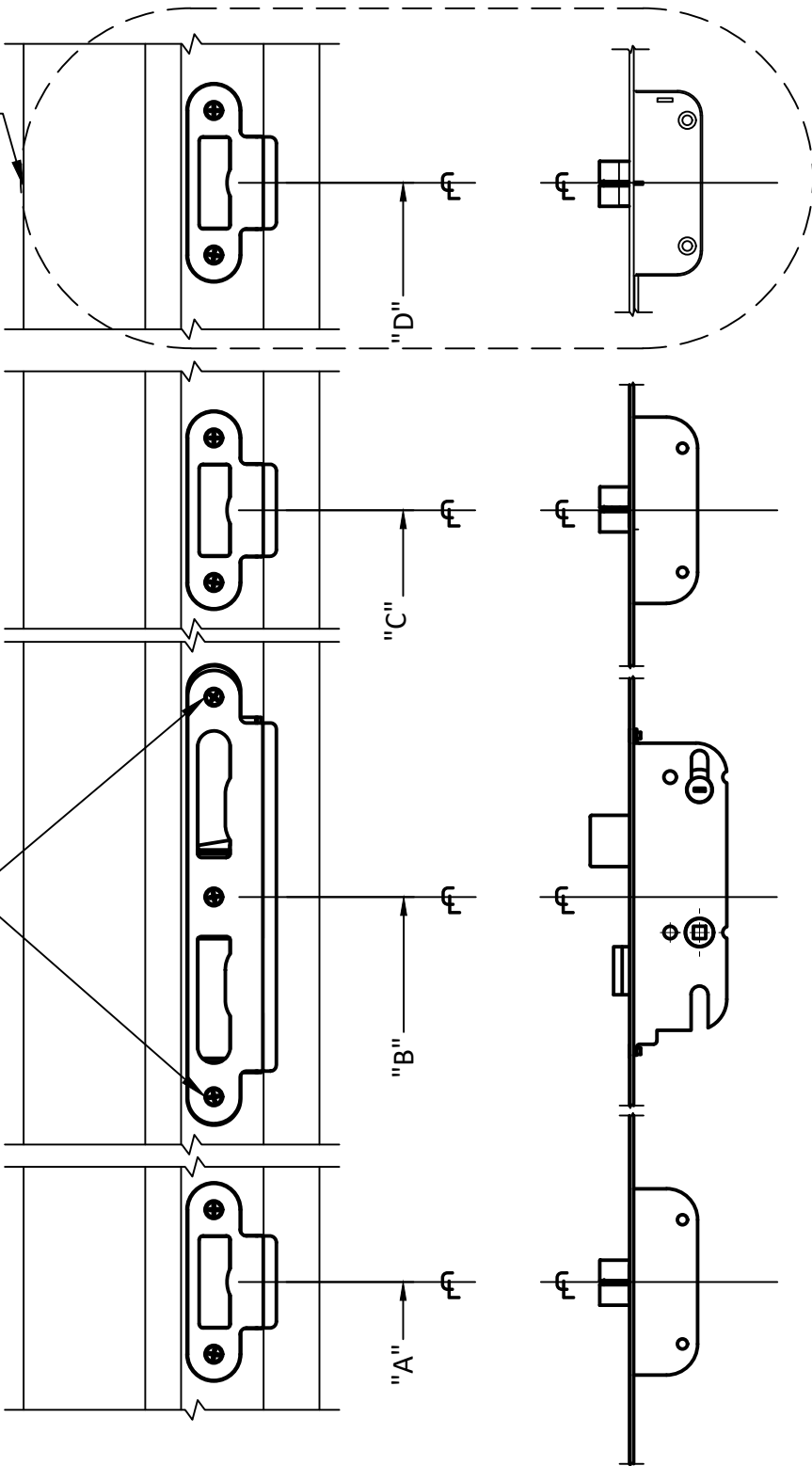
TO BE USED WITH 4-PT LOCK SYSTEM ACTIVE SINGLE & DOUBLE DOOR 102" AND ABOVE

(2) INSTALLATION ANCHORS. SEE TABLE IN SECTION 8

SEE ANCHOR TABLE SECTION 8

TO BE USED WITH DOORS 96" AND ABOVE

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



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

**3-PT / 4-PT LOCK SYSTEM
ACTIVE / SINGLE DOOR**
APPLIES TO ALL LOCK OPTIONS



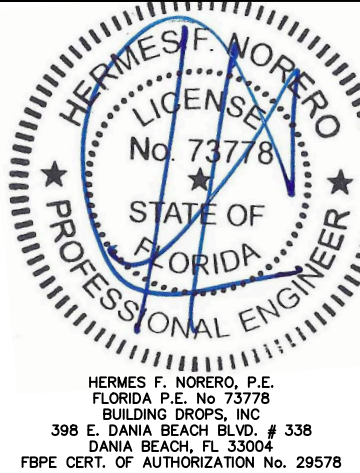
100 FOURTH AVE. NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE:
**E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
HARDWARE LOCATIONS**

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

REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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FL #:
FL25570

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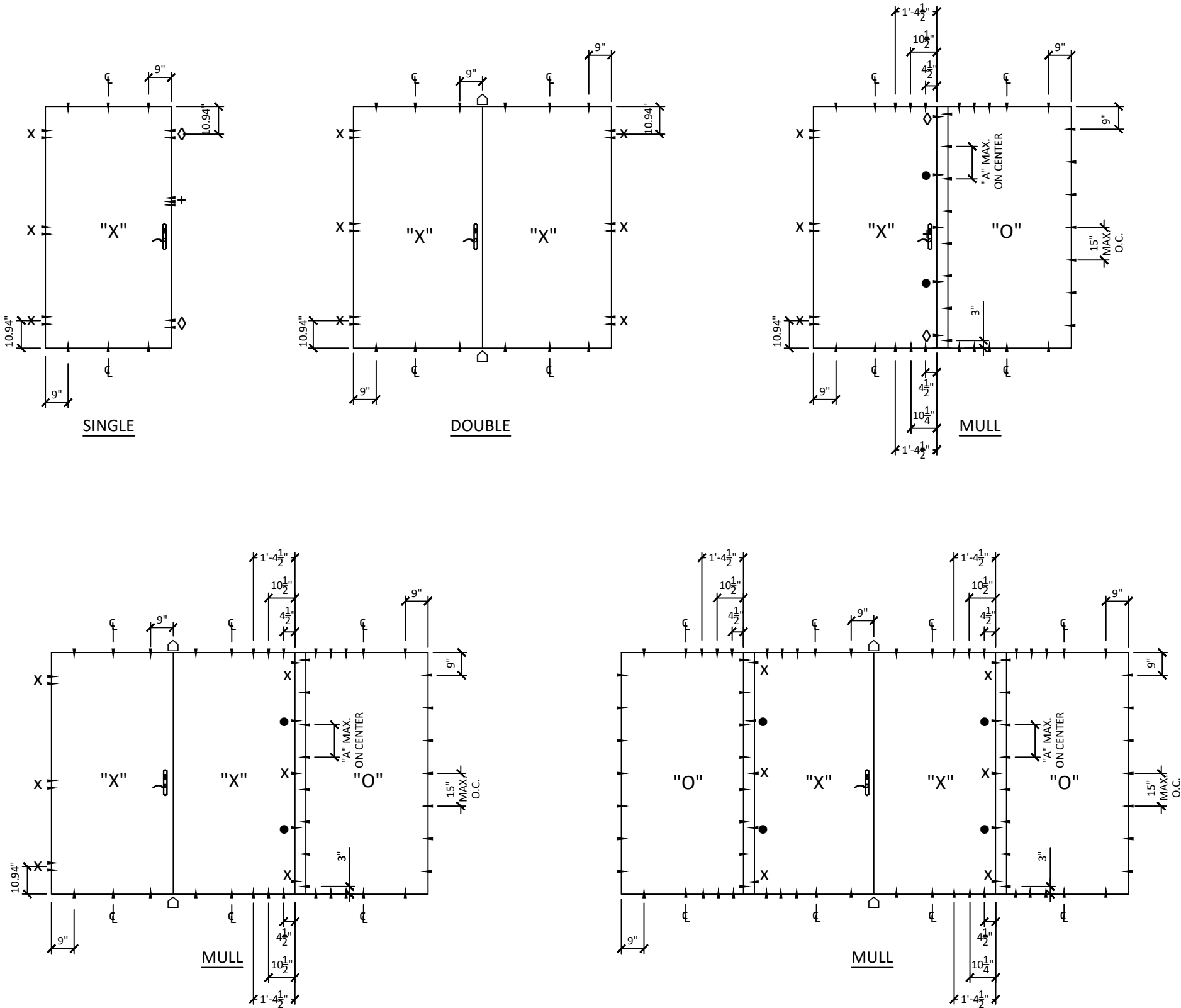
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SCALE: **NTS**

DWG. #: **AWD185**

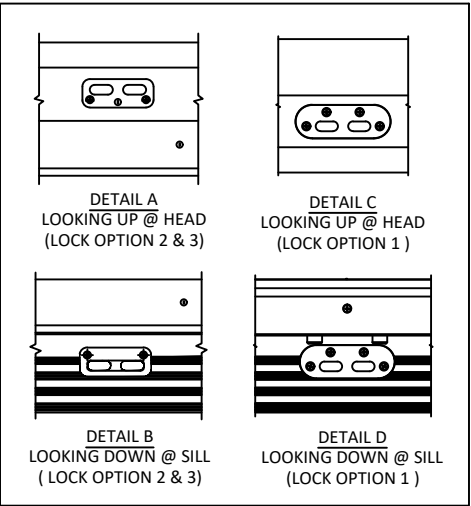
SECTION
6.0

ANCHOR LAYOUT



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

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



DESIGN PRESSURE	"A" DIMENSION
UP TO 80 PSF	13" MAX. O.C.



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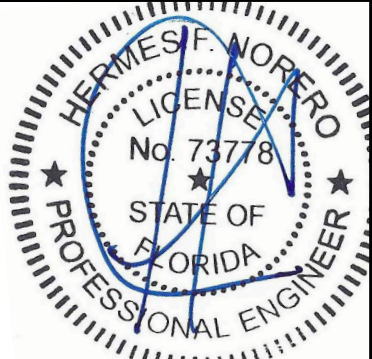
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
ANCHOR LAYOUTS

PREPARED BY:
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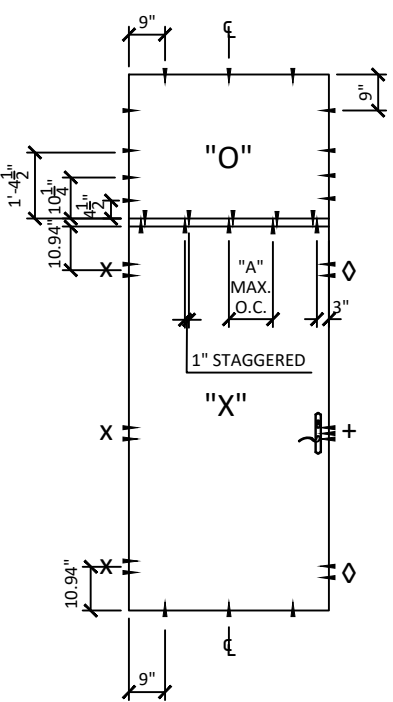
DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

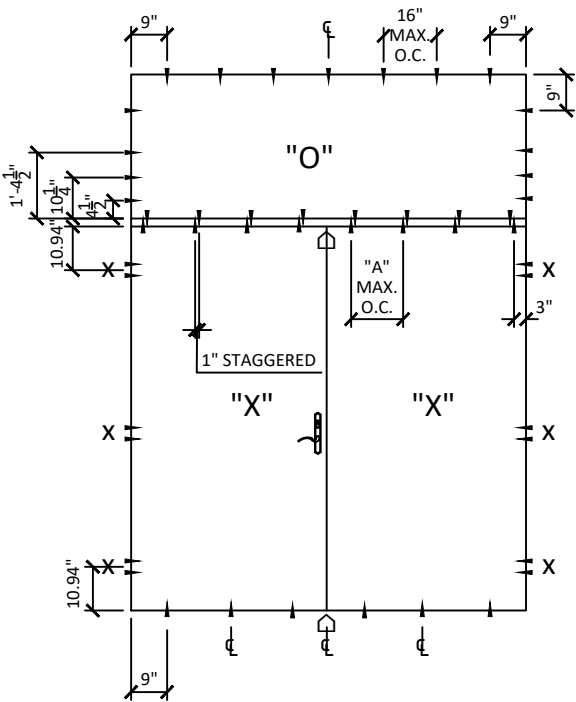
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SECTION
7.0

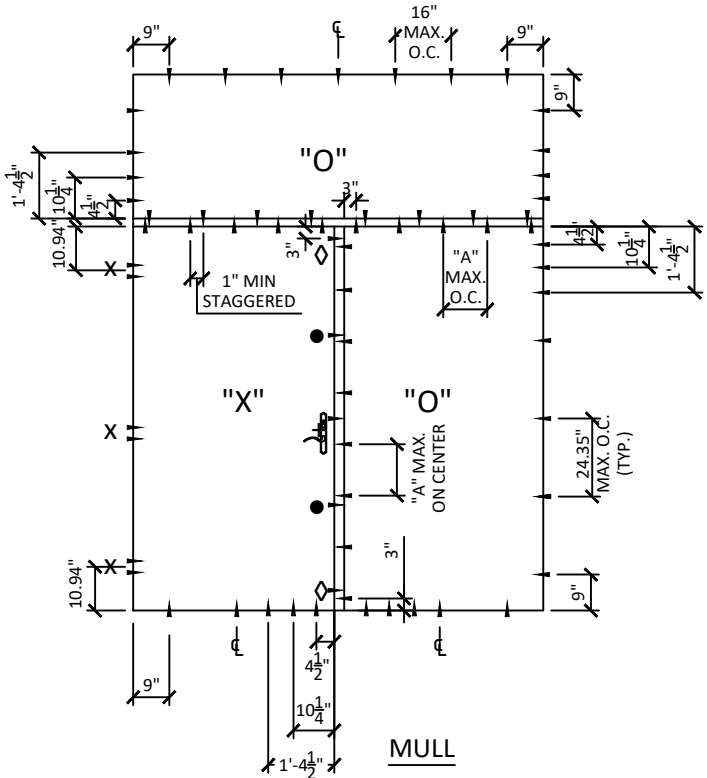
ANCHOR LAYOUT WITH TRANSOM



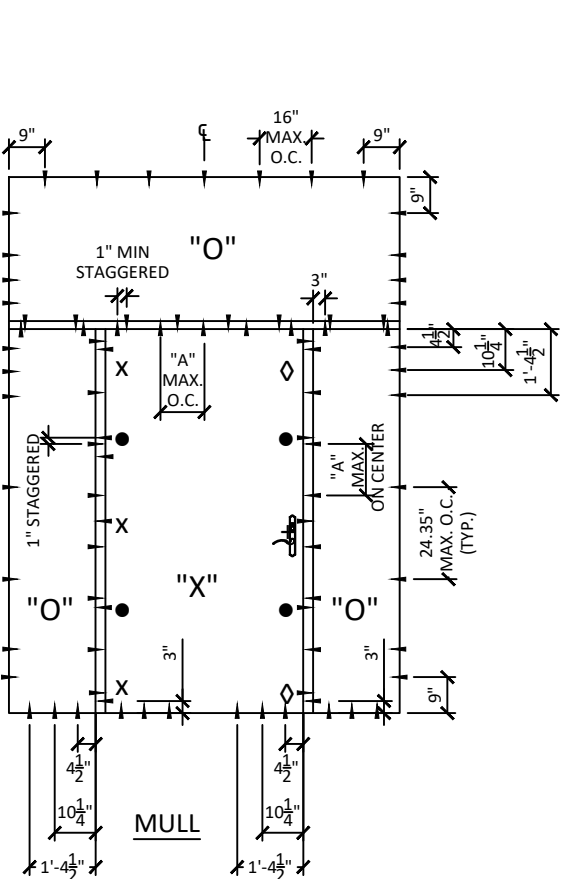
SINGLE



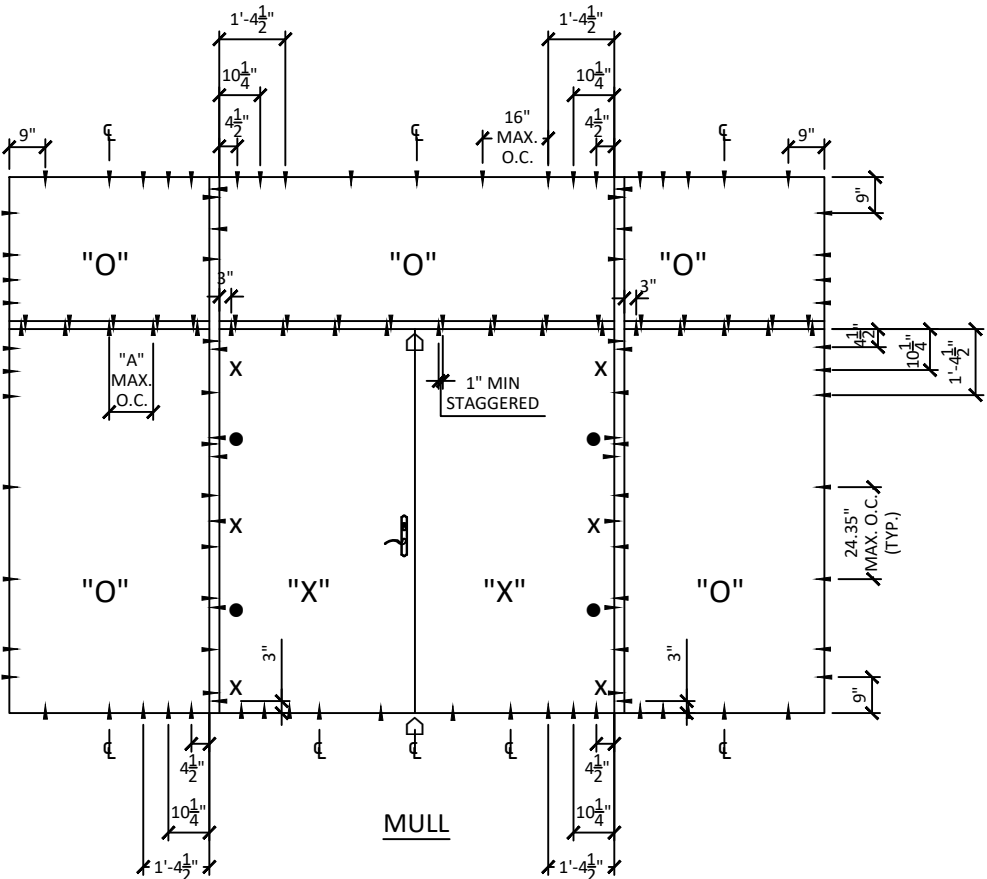
DOUBLE



MULL



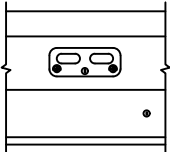
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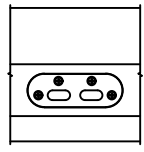
MULL

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-SPAN BETWEEN HINGES AND STRIKE PLATES

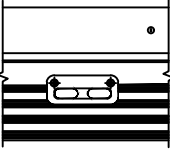
NOTE:
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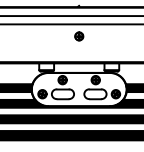
DETAIL A
LOOKING UP @ HEAD
(LOCK OPTION 2 & 3)



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 80 PSF	13" MAX. O.C.



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TITLE:
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OUTSWING
(NON IMPACT) (NON HVHZ)
ANCHOR LAYOUTS

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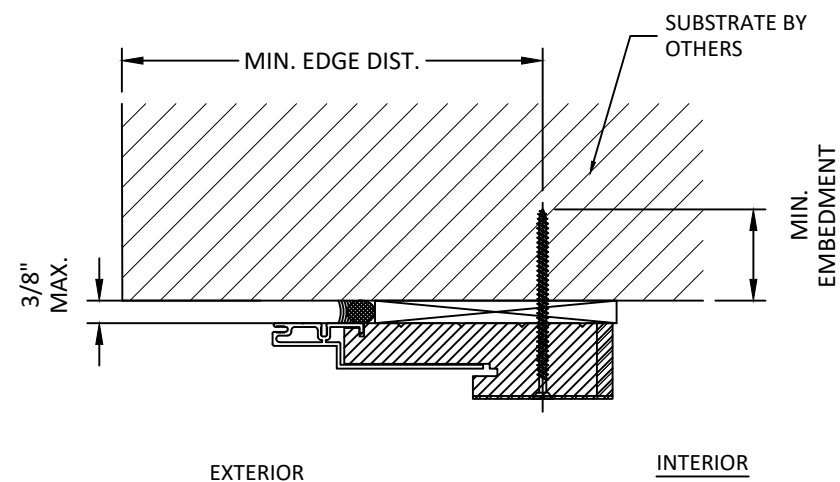
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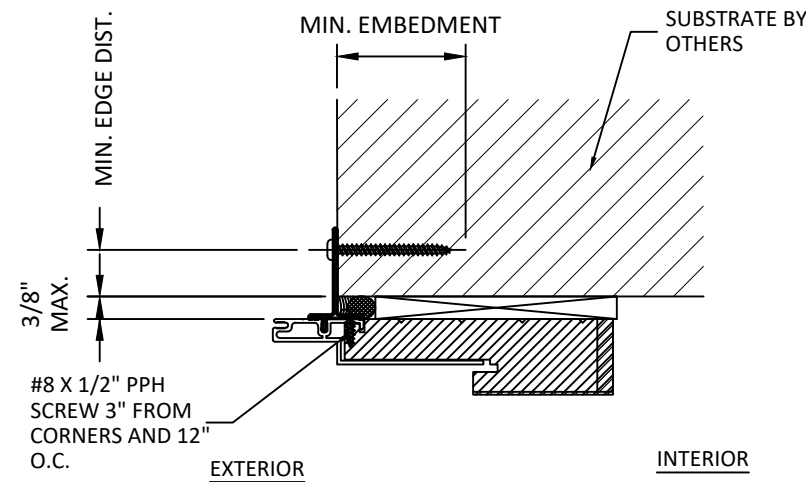


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FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	7.1

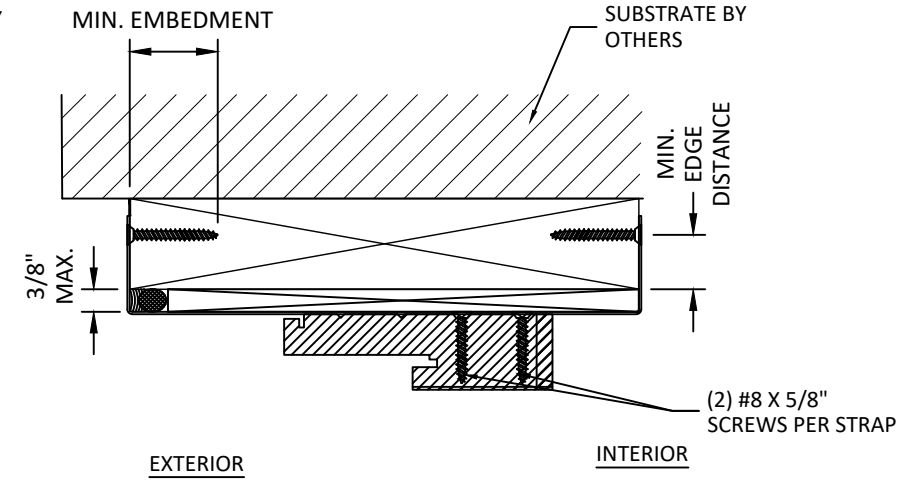


1 8.0 VERTICAL SECTION DOOR HEAD OR JAMB OR SILL THROUGH FRAME



2 VERTICAL SECTION

8.0 DOOR HEAD OR JAMB OR SILL ALUMINUM NAIL FIN



3
8.0

VERTICAL SECTION

DOOR HEAD OR JAMB OR SILL
STRAP

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 $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. FOR MASONRY OR CONCRETE OPENINGS A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - C. MASONRY - MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS (20 GAUGE).
 - E. ALUMINUM - MINIMUM 6063-T5 ALLOY. MINIMUM WALL THICKNESS OF 1/8".

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



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

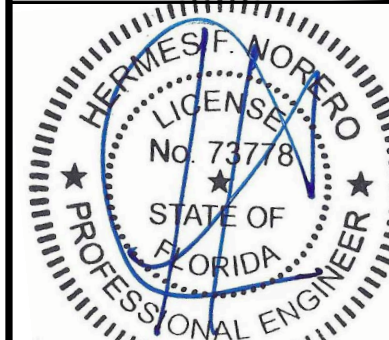
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
ANCHOR DETAILS, SCHEDULE & NOTES

PREPARED BY:

 **BUILDING DROPS, INC.**
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)395-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.18

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

FL #: **FL25570**

DATE: 10.02.17

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

DWG. #: AWD185

SECTION 8.0

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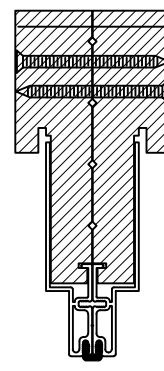
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
ZERO STRUCTURAL MULLION (ONE-WAY) CONFIGURATION

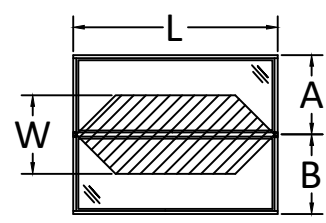
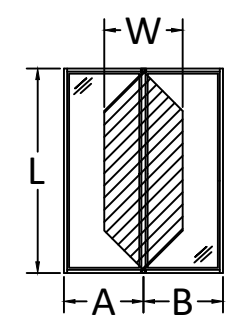
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	74.96	59.00	57.29	57.29	57.29	57.29	57.29	57.29	57.29	57.29	57.29	57.29	57.29	57.29	57.29
48.0	55.80	41.97	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38
54.0	43.27	31.62	27.44	26.95	26.95	26.95	26.95	26.95	26.95	26.95	26.95	26.95	26.95	26.95	26.95
60.0	34.59	24.80	20.81	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65	19.65
66.0	28.31	20.02	16.42	14.94	14.76	14.76	14.76	14.76	14.76	14.76	14.76	14.76	14.76	14.76	14.76
72.0	23.62	16.53	13.34	11.84	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37	11.37
78.0	20.01	13.90	11.08	9.65	9.02	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94	8.94
84.0	17.18	11.86	9.37	8.05	7.38	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16	7.16
90.0	14.91	10.25	8.04	6.83	6.17	5.86	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82
96.0	13.07	8.95	6.98	5.88	5.25	4.91	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80
102.0	11.55	7.88	6.12	5.12	4.53	4.18	4.02	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
108.0	10.28	7.00	5.41	4.50	3.95	3.62	3.43	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
114.0	9.21	6.26	4.82	4.00	3.49	3.16	2.97	2.88	2.86	2.86	2.86	2.86	2.86	2.86	2.86
120.0	8.30	5.63	4.32	3.57	3.10	2.79	2.60	2.49	2.46	2.46	2.46	2.46	2.46	2.46	2.46
126.0	7.52	5.09	3.90	3.21	2.78	2.49	2.30	2.19	2.13	2.12	2.12	2.12	2.12	2.12	2.12
132.0	6.84	4.63	3.54	2.91	2.50	2.23	2.05	1.94	1.87	1.85	1.85	1.85	1.85	1.85	1.85
138.0	6.26	4.22	3.23	2.64	2.27	2.02	1.84	1.73	1.66	1.62	1.61	1.61	1.61	1.61	1.61
144.0	5.74	3.87	2.95	2.41	2.07	1.83	1.67	1.55	1.48	1.44	1.42	1.42	1.42	1.42	1.42
150.0	5.29	3.56	2.71	2.21	1.89	1.67	1.52	1.41	1.33	1.28	1.26	1.26	1.26	1.26	1.26
156.0	4.88	3.29	2.50	2.04	1.74	1.53	1.39	1.28	1.21	1.16	1.13	1.12	1.12	1.12	1.12
162.0	4.53	3.05	2.31	1.88	1.60	1.41	1.27	1.17	1.10	1.05	1.02	1.00	1.00	1.00	1.00
168.0	4.21	2.83	2.15	1.75	1.48	1.30	1.17	1.08	1.01	0.96	0.92	0.90	0.90	0.90	0.90
174.0	3.92	2.63	2.00	1.62	1.38	1.21	1.08	0.99	0.93	0.88	0.84	0.82	0.81	0.81	0.81
180.0	3.66	2.46	1.86	1.51	1.28	1.12	1.00	0.92	0.85	0.81	0.77	0.75	0.73	0.73	0.73
186.0	3.43	2.30	1.74	1.41	1.20	1.04	0.93	0.85	0.79	0.74	0.71	0.68	0.67	0.66	0.66
192.0	3.22	2.16	1.63	1.32	1.12	0.98	0.87	0.79	0.73	0.69	0.66	0.63	0.61	0.60	0.60

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



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



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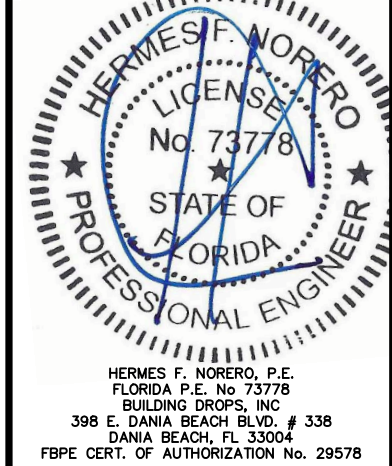
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
ZERO MULLION LOADS TABLE - ONE WAY

PREPARED BY:
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REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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FL #:
FL25570

DATE: **10.02.17**

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

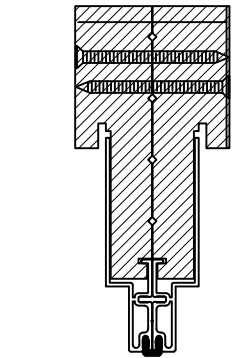
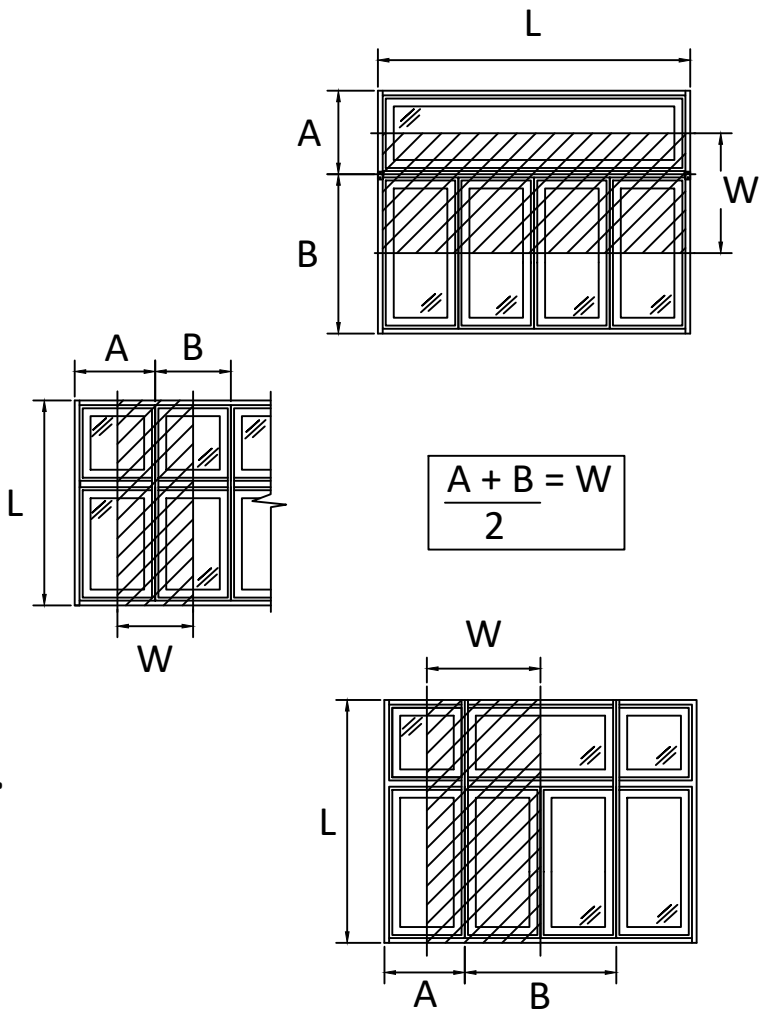
SCALE: **NTS**

DWG. #: **AWD185**

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	58.48	51.17	45.48	40.94	37.21	34.11	31.49	29.24	27.29	25.59
30.0	60.00	60.00	60.00	52.40	43.67	37.43	32.75	29.11	26.20	23.82	21.83	20.15	18.71	17.47	16.37
36.0	60.00	60.00	45.48	36.39	30.32	25.99	22.74	20.22	18.19	16.54	15.16	14.00	13.00	12.13	11.37
42.0	60.00	44.56	33.42	26.73	22.28	19.10	16.71	14.85	13.37	12.15	11.14	10.28	9.55	8.91	8.35
48.0	51.17	34.11	25.59	20.47	17.06	14.62	12.79	11.37	10.23	9.30	8.53	7.87	7.31	6.82	6.40
54.0	40.43	26.95	20.22	16.17	13.48	11.55	10.11	8.98	8.09	7.35	6.74	6.22	5.78	5.39	5.05
60.0	32.75	21.83	16.37	13.10	10.92	9.36	8.19	7.28	6.55	5.95	5.46	5.04	4.68	4.37	4.09
66.0	27.07	18.04	13.53	10.83	9.02	7.73	6.77	6.01	5.41	4.92	4.51	4.16	3.87	3.61	3.38
72.0	22.74	15.16	11.37	9.10	7.58	6.50	5.69	5.05	4.55	4.13	3.79	3.50	3.25	3.03	2.84
78.0	19.38	12.92	9.69	7.75	6.46	5.54	4.84	4.31	3.88	3.52	3.23	2.98	2.77	2.58	2.42
84.0	16.71	11.14	8.35	6.68	5.57	4.77	4.18	3.71	3.34	3.04	2.78	2.57	2.39	2.23	2.09
90.0	14.56	9.70	7.28	5.82	4.85	4.16	3.64	3.23	2.91	2.65	2.43	2.24	2.08	1.94	1.82
96.0	12.79	8.53	6.40	5.12	4.26	3.66	3.20	2.84	2.56	2.33	2.13	1.97	1.83	1.71	1.60
102.0	11.33	7.55	5.67	4.53	3.78	3.24	2.83	2.52	2.27	2.06	1.89	1.74	1.62	1.51	1.42
108.0	10.11	6.74	5.05	4.04	3.37	2.89	2.53	2.25	2.02	1.84	1.68	1.56	1.44	1.35	1.26
114.0	9.07	6.05	4.54	3.63	3.02	2.59	2.27	2.02	1.81	1.65	1.51	1.40	1.30	1.21	1.13
120.0	8.19	5.46	4.09	3.27	2.73	2.34	2.05	1.82	1.64	1.49	1.36	1.26	1.17	1.09	1.02
126.0	7.43	4.95	3.71	2.97	2.48	2.12	1.86	1.65	1.49	1.35	1.24	1.14	1.06	0.99	0.93
132.0	6.77	4.51	3.38	2.71	2.26	1.93	1.69	1.50	1.35	1.23	1.13	1.04	0.97	0.90	0.85
138.0	6.19	4.13	3.10	2.48	2.06	1.77	1.55	1.38	1.24	1.13	1.03	0.95	0.88	0.83	0.77
144.0	5.69	3.79	2.84	2.27	1.90	1.62	1.42	1.26	1.14	1.03	0.95	0.87	0.81	0.76	0.71
150.0	5.24	3.49	2.62	2.10	1.75	1.50	1.31	1.16	1.05	0.95	0.87	0.81	0.75	0.70	0.65
156.0	4.84	3.23	2.42	1.94	1.61	1.38	1.21	1.08	0.97	0.88	0.81	0.75	0.69	0.65	0.61
162.0	4.49	2.99	2.25	1.80	1.50	1.28	1.12	1.00	0.90	0.82	0.75	0.69	0.64	0.60	0.56
168.0	4.18	2.78	2.09	1.67	1.39	1.19	1.04	0.93	0.84	0.76	0.70	0.64	0.60	0.56	0.52
174.0	3.89	2.60	1.95	1.56	1.30	1.11	0.97	0.87	0.78	0.71	0.65	0.60	0.56	0.52	0.49
180.0	3.64	2.43	1.82	1.46	1.21	1.04	0.91	0.81	0.73	0.66	0.61	0.56	0.52	0.49	0.45
186.0	3.41	2.27	1.70	1.36	1.14	0.97	0.85	0.76	0.68	0.62	0.57	0.52	0.49	0.45	0.43
192.0	3.20	2.13	1.60	1.28	1.07	0.91	0.80	0.71	0.64	0.58	0.53	0.49	0.46	0.43	0.40

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



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

TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
ZERO MULLION LOADS TABLE - TWO WAY

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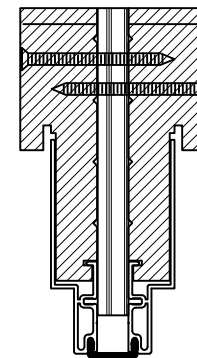
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	9.1

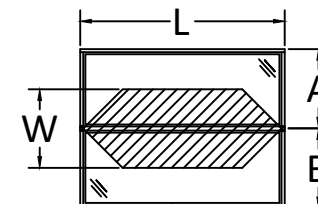
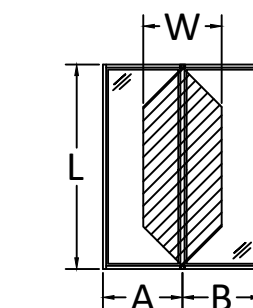
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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	74.27	65.89	63.31	63.31	63.31	63.31	63.31	63.31	63.31	63.31	63.31	63.31	63.31
78.0	75.00	75.00	61.70	53.74	50.24	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79	49.79
84.0	75.00	66.05	52.17	44.81	41.06	39.87	39.87	39.87	39.87	39.87	39.87	39.87	39.87	39.87	39.87
90.0	75.00	57.06	44.74	38.03	34.33	32.63	32.41	32.41	32.41	32.41	32.41	32.41	32.41	32.41	32.41
96.0	72.76	49.82	38.83	32.73	29.21	27.32	26.71	26.71	26.71	26.71	26.71	26.71	26.71	26.71	26.71
102.0	64.30	43.88	34.05	28.51	25.20	23.29	22.38	22.27	22.27	22.27	22.27	22.27	22.27	22.27	22.27
108.0	54.65	37.39	29.06	24.35	21.51	19.81	18.91	18.61	18.61	18.61	18.61	18.61	18.61	18.61	18.61
114.0	46.37	31.64	24.50	20.43	17.93	16.38	15.47	15.05	14.99	14.99	14.99	14.99	14.99	14.99	14.99
120.0	39.68	27.02	20.86	17.32	15.12	13.71	12.85	12.37	12.21	12.21	12.21	12.21	12.21	12.21	12.21
126.0	34.22	23.26	17.91	14.82	12.87	11.61	10.80	10.31	10.08	10.04	10.04	10.04	10.04	10.04	10.04
132.0	29.72	20.17	15.49	12.78	11.06	9.92	9.17	8.70	8.43	8.34	8.34	8.34	8.34	8.34	8.34
138.0	25.98	17.60	13.50	11.10	9.58	8.56	7.87	7.41	7.14	7.00	6.98	6.98	6.98	6.98	6.98
144.0	22.84	15.46	11.83	9.71	8.35	7.44	6.81	6.38	6.10	5.94	5.89	5.89	5.89	5.89	5.89
150.0	20.19	13.65	10.43	8.54	7.33	6.50	5.93	5.53	5.26	5.10	5.01	5.00	5.00	5.00	5.00
156.0	17.94	12.11	9.24	7.56	6.47	5.73	5.20	4.83	4.57	4.41	4.31	4.27	4.27	4.27	4.27
162.0	16.00	10.79	8.23	6.72	5.74	5.07	4.59	4.25	4.01	3.84	3.74	3.68	3.68	3.68	3.68

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.



1/2" X 5 3/16" MULLION



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



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

TITLE: **E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
1/2" MULTILION LOADS TABLE - ONE WAY**

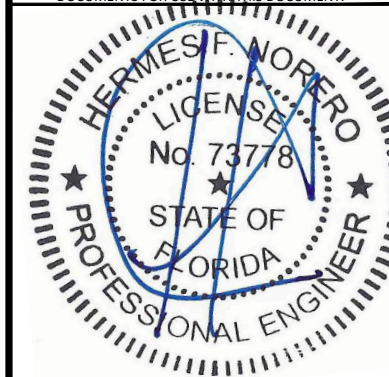
PREPARED BY:



BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)395-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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



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

FL #: **FL25570**

DATE: 10.02.17

DWG. BY: RV	CHK. BY: HFN
-----------------------	------------------------

SCALE: NTS

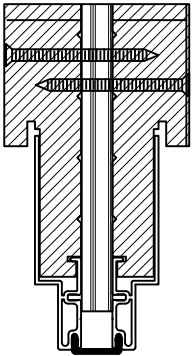
DWG. #: AWD185

SECTION 9.2

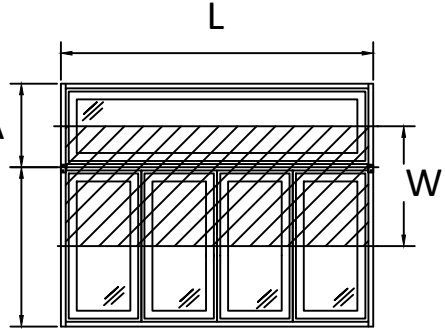
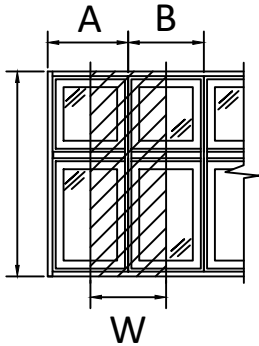
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	47.57	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	39.64	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	52.37	44.89	39.28	34.92	31.42	28.57	26.19	24.17	22.45	20.95	19.64
72.0	60.00	60.00	60.00	52.81	44.01	37.72	33.01	29.34	26.40	24.00	22.00	20.31	18.86	17.60	16.50
78.0	60.00	60.00	56.25	45.00	37.50	32.14	28.12	25.00	22.50	20.45	18.75	17.31	16.07	15.00	14.06
84.0	60.00	60.00	48.50	38.80	32.33	27.71	24.25	21.55	19.40	17.64	16.17	14.92	13.86	12.93	12.12
90.0	60.00	56.33	42.25	33.80	28.16	24.14	21.12	18.78	16.90	15.36	14.08	13.00	12.07	11.27	10.56
96.0	60.00	49.51	37.13	29.71	24.75	21.22	18.57	16.50	14.85	13.50	12.38	11.43	10.61	9.90	9.28
102.0	60.00	43.86	32.89	26.31	21.93	18.80	16.45	14.62	13.16	11.96	10.96	10.12	9.40	8.77	8.22
108.0	55.88	37.26	27.94	22.35	18.63	15.97	13.97	12.42	11.18	10.16	9.31	8.60	7.98	7.45	6.99
114.0	47.52	31.68	23.76	19.01	15.84	13.58	11.88	10.56	9.50	8.64	7.92	7.31	6.79	6.34	5.94
120.0	40.74	27.16	20.37	16.30	13.58	11.64	10.18	9.05	8.15	7.41	6.79	6.27	5.82	5.43	5.09
126.0	35.19	23.46	17.60	14.08	11.73	10.05	8.80	7.82	7.04	6.40	5.87	5.41	5.03	4.69	4.40
132.0	30.61	20.40	15.30	12.24	10.20	8.74	7.65	6.80	6.12	5.56	5.10	4.71	4.37	4.08	3.83
138.0	26.79	17.86	13.39	10.71	8.93	7.65	6.70	5.95	5.36	4.87	4.46	4.12	3.83	3.57	3.35
144.0	23.58	15.72	11.79	9.43	7.86	6.74	5.89	5.24	4.72	4.29	3.93	3.63	3.37	3.14	2.95
150.0	20.86	13.91	10.43	8.34	6.95	5.96	5.21	4.64	4.17	3.79	3.48	3.21	2.98	2.78	2.61
156.0	18.54	12.36	9.27	7.42	6.18	5.30	4.64	4.12	3.71	3.37	3.09	2.85	2.65	2.47	2.32
162.0	16.56	11.04	8.28	6.62	5.52	4.73	4.14	3.68	3.31	3.01	2.76	2.55	2.37	2.21	2.07
168.0	14.85	9.90	7.42	5.94	4.95	4.24	3.71	3.30	2.97	2.70	2.47	2.28	2.12	1.98	1.86
174.0	13.36	8.91	6.68	5.35	4.45	3.82	3.34	2.97	2.67	2.43	2.23	2.06	1.91	1.78	1.67
180.0	12.07	8.05	6.04	4.83	4.02	3.45	3.02	2.68	2.41	2.19	2.01	1.86	1.72	1.61	1.51
186.0	10.94	7.29	5.47	4.38	3.65	3.13	2.73	2.43	2.19	1.99	1.82	1.68	1.56	1.46	1.37
192.0	9.95	6.63	4.97	3.98	3.32	2.84	2.49	2.21	1.99	1.81	1.66	1.53	1.42	1.33	1.24

NOTE:

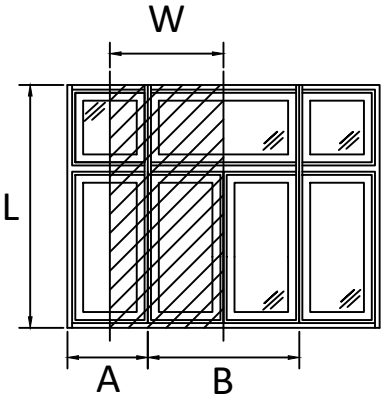
- 1) MULLION CHART APPLIES TO 1/2" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SECTION 8.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN PRODUCTS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1/2" X 5 3/16" MULLION



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



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

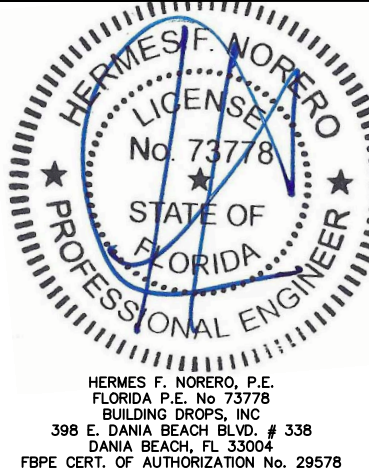
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
1/2" MULLION LOADS TABLE - TWO WAY

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



REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

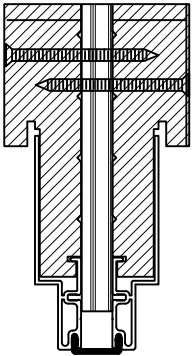
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



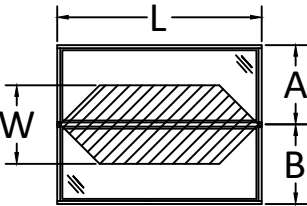
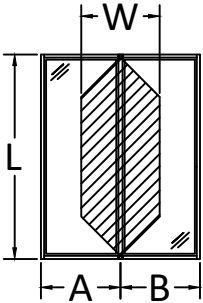
FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	9.3

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
66.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
72.0	75.00	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
78.0	75.00	75.00	72.98	63.56	59.42	58.90	58.90	58.90	58.90	58.90	58.90	58.90	58.90	58.90	58.90
84.0	75.00	75.00	61.70	53.00	48.57	47.16	47.16	47.16	47.16	47.16	47.16	47.16	47.16	47.16	47.16
90.0	75.00	67.49	52.92	44.98	40.60	38.60	38.34	38.34	38.34	38.34	38.34	38.34	38.34	38.34	38.34
96.0	75.00	58.92	45.93	38.72	34.55	32.32	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59	31.59
102.0	75.00	51.91	40.27	33.72	29.81	27.54	26.48	26.34	26.34	26.34	26.34	26.34	26.34	26.34	26.34
108.0	64.64	44.22	34.37	28.80	25.44	23.44	22.37	22.01	22.01	22.01	22.01	22.01	22.01	22.01	22.01
114.0	54.84	37.42	28.98	24.16	21.21	19.37	18.30	17.80	17.73	17.73	17.73	17.73	17.73	17.73	17.73
120.0	46.94	31.96	24.67	20.48	17.88	16.22	15.19	14.63	14.44	14.44	14.44	14.44	14.44	14.44	14.44
126.0	40.48	27.51	21.18	17.53	15.23	13.73	12.77	12.20	11.92	11.88	11.88	11.88	11.88	11.88	11.88
132.0	35.16	23.85	18.32	15.											

- NOTE:**
- MULLION CHART APPLIES TO 3/4" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SECTION 8.
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 - WHEN PRODUCTS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



3/4" X 5 3/16" MULLION



A + B = W

2



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

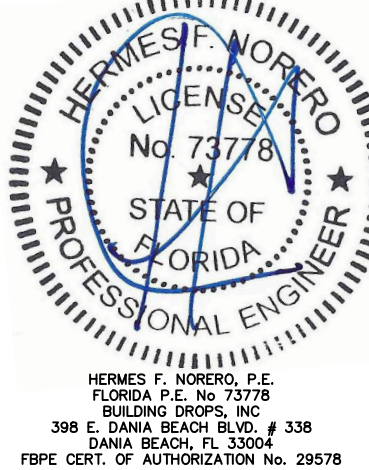
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
3/4" MULLION LOADS TABLE - ONE WAY

PREPARED BY:
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REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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

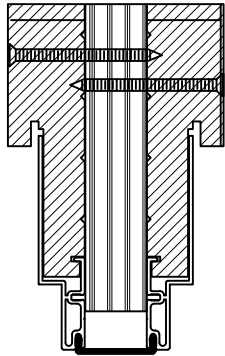


FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	9.4

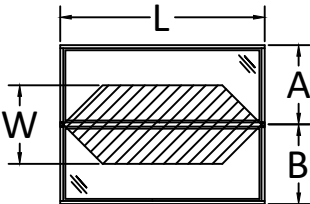
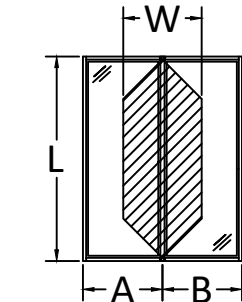
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	47.57	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	39.64	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	54.06	46.34	40.55	36.04	32.44	29.49	27.03	24.95	23.17	21.62	20.27
72.0	60.00	60.00	60.00	59.47	49.56	42.48	37.17	33.04	29.73	27.03	24.78	22.87	21.24	19.82	18.58
78.0	60.00	60.00	60.00	53.81	44.84	38.43	33.63	29.89	26.90	24.46	22.42	20.70	19.22	17.94	16.81
84.0	60.00	60.00	57.99	46.40	38.66	33.14	29.00	25.78	23.20	21.09	19.33	17.84	16.57	15.47	14.50
90.0	60.00	60.00	50.52	40.42	33.68	28.87	25.26	22.45	20.21	18.37	16.84	15.54	14.43	13.47	12.63
96.0	60.00	59.20	44.40	35.52	29.60	25.37	22.20	19.73	17.76	16.15	14.80	13.66	12.69	11.84	11.10
102.0	60.00	52.44	39.33	31.47	26.22	22.48	19.67	17.48	15.73	14.30	13.11	12.10	11.24	10.49	9.83
108.0	60.00	44.55	33.41	26.73	22.27	19.09	16.71	14.85	13.36	12.15	11.14	10.28	9.55	8.91	8.35
114.0	56.82	37.88	28.41	22.73	18.94	16.23	14.20	12.63	11.36	10.33	9.47	8.74	8.12		

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
66.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
72.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
78.0	75.00	75.00	75.00	70.40	67.05	66.65	66.65	66.65	66.65	66.65	66.65	66.65	66.65	66.65	66.65
84.0	75.00	75.00	70.40	61.20	56.08	54.44	54.44	54.44	54.44	54.44	54.44	54.44	54.44	54.44	54.44
90.0	75.00	75.00	61.10	51.93	46.88	44.56	44.27	44.27	44.27	44.27	44.27	44.27	44.27	44.27	44.27
96.0	75.00	68.03	53.03	44.70	39.89	37.31	36.47	36.47	36.47	36.47	36.47	36.47	36.47	36.47	36.47
102.0	75.00	59.93	46.50	38.93	34.42	31.80	30.57	30.41	30.41	30.41	30.41	30.41	30.41	30.41	30.41
108.0	74.63	51.06	39.68	33.25	29.37	27.06	25.83	25.41	25.41	25.41	25.41	25.41	25.41	25.41	25.41
114.0	63.32	43.21	33.46	27.90	24.48	22.37	21.13	20.56	20.47	20.47	20.47	20.47	20.47	20.47	20.47
120.0	54.19	36.90	28.48	23.65	20.64	18.73	17.54	16.90	16.67	16.67	16.67	16.67	16.67	16.67	16.67
126.0	46.74	31.76	24.46	20.23	17.58	15.85	14.74	14.08	13.77	13.72	13.72	13.72	13.72	13.72	13.72
132.0	40.59	27.54	21.16	17.45	15.10	13.55	12.53	11.88	11.52	11.39	11.39	11.39	11.39	11.39	11.39
138.0	35.48	24.04	18.43	15.16	13.08	11.69	10.75	10.12	9.74	9.56	9.53	9.53	9.53	9.53	9.53
144.0	31.20	21.11	16.15	13.26	11.41	10.15	9.29	8.71	8.33	8.12	8.04	8.04	8.04	8.04	8.04
150.0	27.58	18.64	14.24	11.67	10.01	8.88	8.10	7.55	7.19	6.96	6.85	6.83	6.83	6.83	6.83
156.0	24.49	16.54	12.62	10.32	8.83	7.82	7.10	6.60	6.25	6.02	5.89	5.84	5.84	5.84	5.84
162.0	21.86	14.74	11.24	9.18	7.84	6.92	6.27	5.80	5.47	5.24	5.10	5.03	5.02	5.02	5.02
168.0	19.58	13.20	10.05	8.19	6.99	6.16	5.56	5.13	4.82	4.60	4.46	4.37	4.34	4.34	4.34
174.0	17.62	11.86	9.02	7.35	6.26	5.50	4.96	4.56	4.27	4.06	3.92	3.83	3.78	3.77	3.77
180.0	15.91	10.70	8.13	6.62	5.63	4.94	4.44	4.08	3.81	3.61	3.47	3.37	3.31	3.29	3.29
186.0	14.41	9.69	7.36	5.98	5.08	4.45	4.00	3.66	3.41	3.22	3.08	2.99	2.92	2.89	2.89
192.0	13.09	8.80	6.68	5.42	4.60	4.03	3.61	3.30	3.06	2.89	2.76	2.66	2.60	2.56	2.54

- NOTE:**
- MULLION CHART APPLIES TO 1" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SECTION 8.
 - TRIBUTARY WIDTH = $W = (A+B)/2$
 - WHEN PRODUCTS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1" X 5 3/16" MULLION



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



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

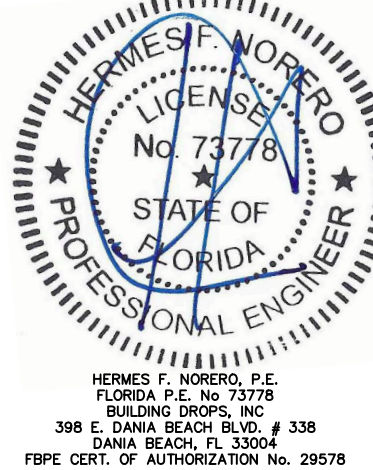
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
1" MULLION LOADS TABLE - ONE WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

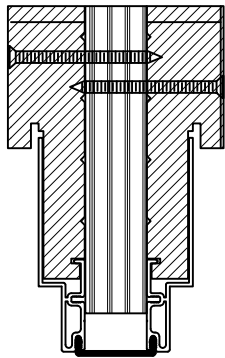
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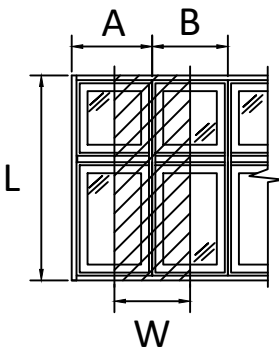
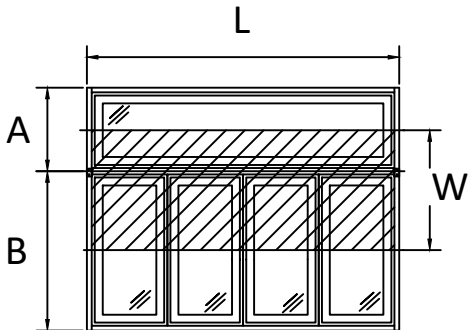
FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	9.6

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	55.75
30.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.89	50.97	47.57	44.60
36.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	59.47	54.06	49.56	45.74	42.48	39.64	37.17
42.0	60.00	60.00	60.00	60.00	60.00	60.00	60.00	56.63	50.97	46.34	42.48	39.21	36.41	33.98	31.86
48.0	60.00	60.00	60.00	60.00	60.00	60.00	55.75	49.56	44.60	40.55	37.17	34.31	31.86	29.73	27.88
54.0	60.00	60.00	60.00	60.00	60.00	56.63	49.56	44.05	39.64	36.04	33.04	30.50	28.32	26.43	24.78
60.0	60.00	60.00	60.00	60.00	59.47	50.97	44.60	39.64	35.68	32.44	29.73	27.45	25.49	23.79	22.30
66.0	60.00	60.00	60.00	60.00	54.06	46.34	40.55	36.04	32.44	29.49	27.03	24.95	23.17	21.62	20.27
72.0	60.00	60.00	60.00	59.47	49.56	42.48	37.17	33.04	29.73	27.03	24.78	22.87	21.24	19.82	18.58
78.0	60.00	60.00	60.00	54.89	45.74	39.21	34.31	30.50	27.45	24.95	22.87	21.11	19.60	18.30	17.15
84.0	60.00	60.00	60.00	50.97	42.48	36.41	31.86	28.32	25.49	23.17	21.24	19.60	18.20	16.99	15.93
90.0	60.00	60.00	58.79	47.03	39.19	33.60	29.40	26.13	23.52	21.38	19.60	18.09	16.80	15.68	14.70
96.0	60.00	60.00	51.67	41.34	34.45	29.53	25.84	22.97	20.67	18.79	17.22	15.90	14.76	13.78	12.92
102.0	60.00	60.00	45.77	36.62	30.51	26.16	22.89	20.34	18.31	16.64	15.26	14.08	13.08	12.21	11.44
108.0	60.00	51.84	38.88	31.11	25.92	22.22	19.44	17.28	15.55	14.14	12.96	11.96	11.11	10.37	9.72
114.0	60.00	44.08	33.06	26.45	22.04	18.89	16.53	14.69	13.22	12.02	11.02	10.17	9.45	8.82	8.27
120.0	56.69	37.79	28.35	22.68	18.90	16.20	14.17	12.60	11.34	10.31	9.45	8.72	8.10	7.56	7.09
126.0	48.97	32.65	24.49	19.59	16.32	13.99	12.24	10.88	9.79	8.90	8.16	7.53	7.00	6.53	6.12
132.0	42.59	28.40	21.30	17.04	14.20	12.17	10.65	9.47	8.52	7.74	7.10	6.55	6.08	5.68	5.32
138.0	37.28	24.85	18.64	14.91	12.43	10.65	9.32	8.28	7.46	6.78	6.21	5.73	5.33	4.97	4.66
144.0	32.81	21.87	16.40	13.12	10.94	9.37	8.20	7.29	6.56	5.97	5.47	5.05	4.69	4.37	4.10
150.0	29.03	19.35	14.51	11.61	9.68	8.29	7.26	6.45	5.81	5.28	4.84	4.47	4.15	3.87	3.63
156.0	25.80	17.20	12.90	10.32	8.60	7.37	6.45	5.73	5.16	4.69	4.30	3.97	3.69	3.44	3.23
162.0	23.04	15.36	11.52	9.22	7.68	6.58	5.76	5.12	4.61	4.19	3.84	3.54	3.29	3.07	2.88
168.0	20.66	13.77	10.33	8.26	6.89	5.90	5.17	4.59	4.13	3.76	3.44	3.18	2.95	2.75	2.58
174.0	18.60	12.40	9.30	7.44	6.20	5.31	4.65	4.13	3.72	3.38	3.10	2.86	2.66	2.48	2.32
180.0	16.80	11.20	8.40	6.72	5.60	4.80	4.20	3.73	3.36	3.05	2.80	2.58	2.40	2.24	2.10
186.0	15.22	10.15	7.61	6.09	5.07	4.35	3.81	3.38	3.04	2.77	2.54	2.34	2.17	2.03	1.90
192.0	13.84	9.23	6.92	5.54	4.61	3.95	3.46	3.08	2.77	2.52	2.31	2.13	1.98	1.85	1.73

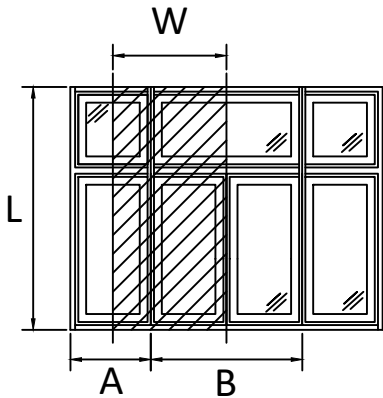
- NOTE:**
- 1) MULLION CHART APPLIES TO 1" X 5-3/16" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF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



1" X 5 3/16" MULLION



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



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

TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
1" 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
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REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	9.7

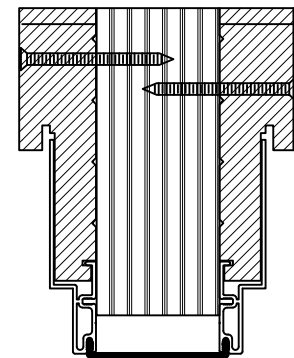
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8/15/2019 11:50 AM

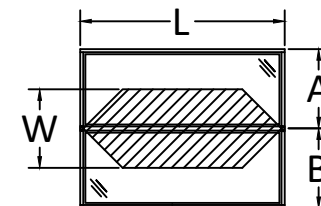
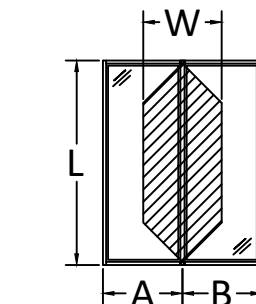
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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	52.85	48.83	46.94	46.69	46.69	46.69	46.69	46.69	46.69	46.69	46.69
108.0	75.00	75.00	60.93	51.05	45.10	41.55	39.66	39.02	39.02	39.02	39.02	39.02	39.02	39.02	39.02
114.0	75.00	66.34	51.38	42.84	37.59	34.34	32.45	31.56	31.43	31.43	31.43	31.43	31.43	31.43	31.43
120.0	75.00	56.65	43.74	36.32	31.70	28.75	26.94	25.94	25.60	25.60	25.60	25.60	25.60	25.60	25.60
126.0	71.76	48.77	37.55	31.07	26.99	24.34	22.64	21.62	21.14	21.06	21.06	21.06	21.06	21.06	21.06
132.0	62.33	42.29	32.49	26.80	23.19	20.81	19.24	18.24	17.68	17.49	17.49	17.49	17.49	17.49	17.49
138.0	54.48	36.91	28.30	23.28	20.08	17.95	16.50	15.54	14.96	14.68	14.64	14.64	14.64	14.64	14.64
144.0	47.90	32.41	24.81	20.36	17.51	15.59	14.27	13.37	12.79	12.46	12.35	12.35	12.35	12.35	12.35
150.0	42.34	28.61	21.87	17.91	15.37	13.64	12.43	11.60	11.03	10.68	10.51	10.49	10.49	10.49	10.49
156.0	37.61	25.39	19.38	15.85	13.57	12.01	10.91	10.13	9.59	9.24	9.04	8.96	8.96	8.96	8.96
162.0	33.56	22.64	17.25	14.09	12.04	10.63	9.63	8.91	8.40	8.05	7.83	7.73	7.71	7.71	7.71
168.0	30.07	20.27	15.43	12.58	10.73	9.45	8.54	7.88	7.40	7.06	6.84	6.71	6.66	6.66	6.66
174.0	27.05	18.22	13.86	11.28	9.61	8.45	7.62	7.01	6.56	6.24	6.01	5.87	5.80	5.79	5.79
180.0	24.42	16.44	12.49	10.16	8.64	7.58	6.82	6.26	5.85	5.54	5.32	5.17	5.09	5.06	5.06
186.0	22.12	14.88	11.30	9.18	7.80	6.83	6.14	5.62	5.23	4.94	4.73	4.59	4.49	4.44	4.44
192.0	20.11	13.51	10.25	8.33	7.06	6.18	5.54	5.06	4.70	4.43	4.23	4.08	3.99	3.93	3.91

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.



2" X 5 3/16" MULLION



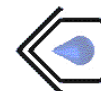
$$\frac{A + B}{2} = W$$



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

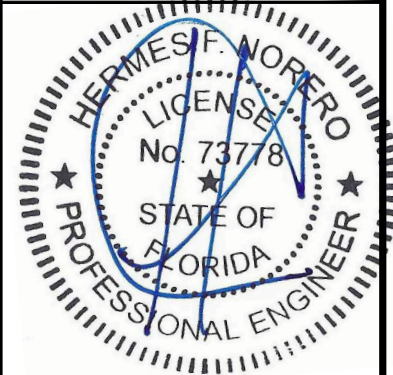
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
2" MULLION LOADS TABLE - ONE WAY

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



REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
GLAZING DETAIL UPDATED	HR	7.2.18
MULL & DP CHARTS UPDATE	LL	8.14.19

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

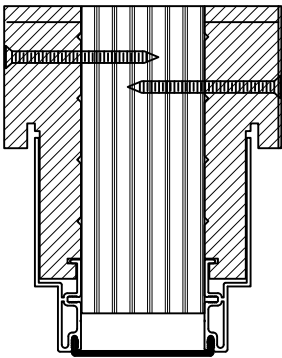


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

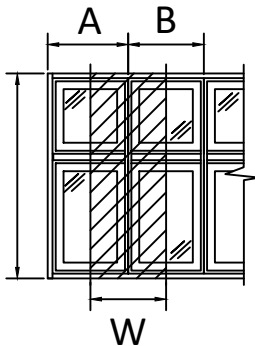
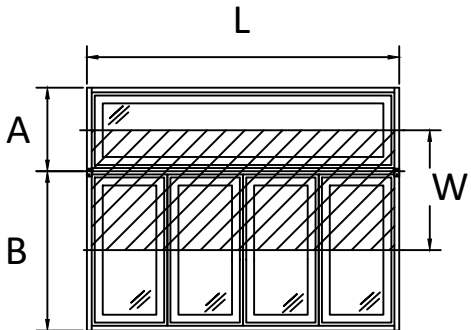
FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	9.8

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
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	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	59.07	44.30	35.44	29.53	25.31	22.15	19.69	17.72	16.11	14.77	13.63	12.66	11.81	11.08
126.0	60.00	51.02	38.27	30.61	25.51	21.87	19.13	17.01	15.31	13.92	12.76	11.77	10.93	10.20	9.57
132.0	60.00	44.38	33.28	26.63	22.19	19.02	16.64	14.79	13.31	12.10	11.09	10.24	9.51	8.88	8.32
138.0	58.26	38.84	29.13	23.30	19.42	16.64	14.56	12.95	11.65	10.59	9.71	8.96	8.32	7.77	7.28
144.0	51.27	34.18	25.64	20.51	17.09	14.65	12.82	11.39	10.25	9.32	8.55	7.89	7.32	6.84	6.41
150.0	45.36	30.24	22.68	18.15	15.12	12.96	11.34	10.08	9.07	8.25	7.56	6.98	6.48	6.05	5.67
156.0	40.33	26.89	20.16	16.13	13.44	11.52	10.08	8.96	8.07	7.33	6.72	6.20	5.76	5.38	5.04
162.0	36.01	24.01	18.01	14.40	12.00	10.29	9.00	8.00	7.20	6.55	6.00	5.54	5.14	4.80	4.50
168.0	32.29	21.53	16.14	12.92	10.76	9.23	8.07	7.18	6.46	5.87	5.38	4.97	4.61	4.31	4.04
174.0	29.06	19.37	14.53	11.62	9.69	8.30	7.27	6.46	5.81	5.28	4.84	4.47	4.15	3.87	3.63
180.0	26.25	17.50	13.13	10.50	8.75	7.50	6.56	5.83	5.25	4.77	4.38	4.04	3.75	3.50	3.28
186.0	23.79	15.86	11.90	9.52	7.93	6.80	5.95	5.29	4.76	4.33	3.97	3.66	3.40	3.17	2.97
192.0	21.63	14.42	10.82	8.65	7.21	6.18	5.41	4.81	4.33	3.93	3.61	3.33	3.09	2.88	2.70

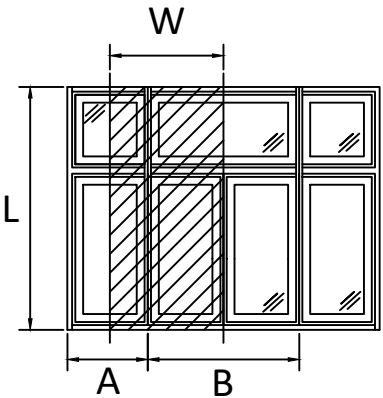
- NOTE:
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2" X 5 3/16" MULLION



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



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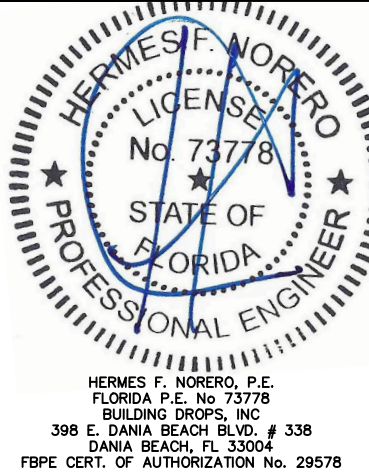
TITLE:
E-SERIES HINGED PATIO DOOR
OUTSWING
(NON IMPACT) (NON HVHZ)
2" MULLION LOADS TABLE - TWO WAY

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REMARKS	BY	DATE
TEST STANDARDS UPDATED	HR	7.2.18
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MULL & DP CHARTS UPDATE	LL	8.14.19

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FL #:	FL25570
DATE:	10.02.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD185
SECTION	9.9