

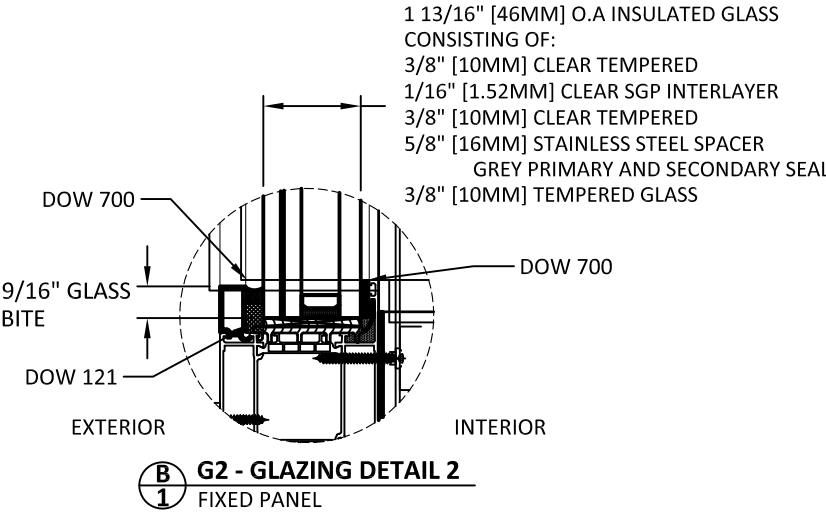
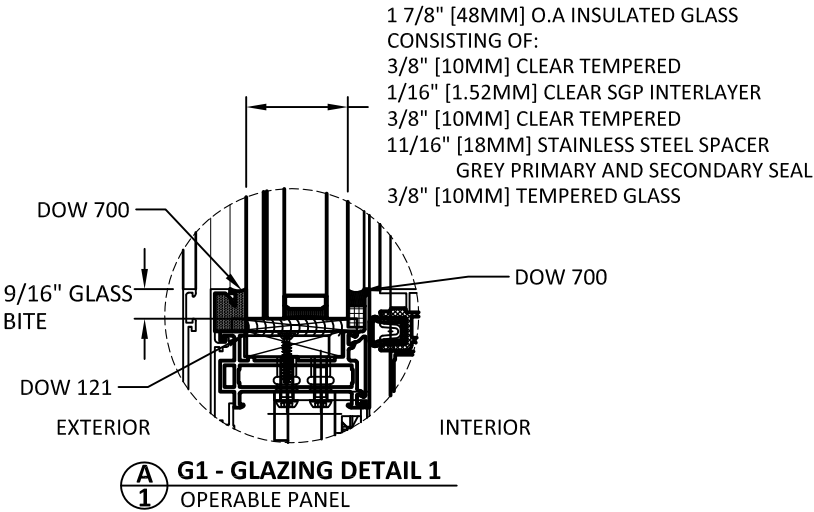
AIR-LUX TECHNIK AG

SERIES 173 SLIDING GLASS DOOR

(HVHZ) (IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - AAMA/WDMA/CSA 101/I.S.2/A440-11
 - ASTM E1886-13a
 - ASTM E1996-17
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING 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** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. FRAME MATERIAL: ALUMINUM 6063-T5
7. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.



GLAZING NOTES:

- GLASS TYPE COMPLIES 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.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SIZE CHARTS.

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12	BILL OF MATERIALS (FITTINGS)
13	BILL OF MATERIALS (FITTINGS)
14	BILL OF MATERIALS (FITTINGS, SCREWS AND JOINTS)

MISSILE IMPACT RATING	DESIGN PRESSURE
LMI & SMI RATED	SEE SHEET 2 FOR DESIGN PRESSURE LIMITATIONS

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TITLE: AIR-LUX SERIES 173 SLIDING GLASS DOOR (HVHZ) (IMPACT)

GENERAL NOTES, TABLE OF CONTENTS & GLAZING DETAILS

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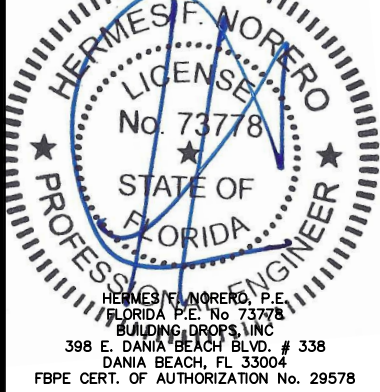
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
A. 7TH FBC UPDATE	MS	11.05.20

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Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2020.12.20 23:58:06 -05'00'



FL #:
FL29501

DATE: **04.09.19**

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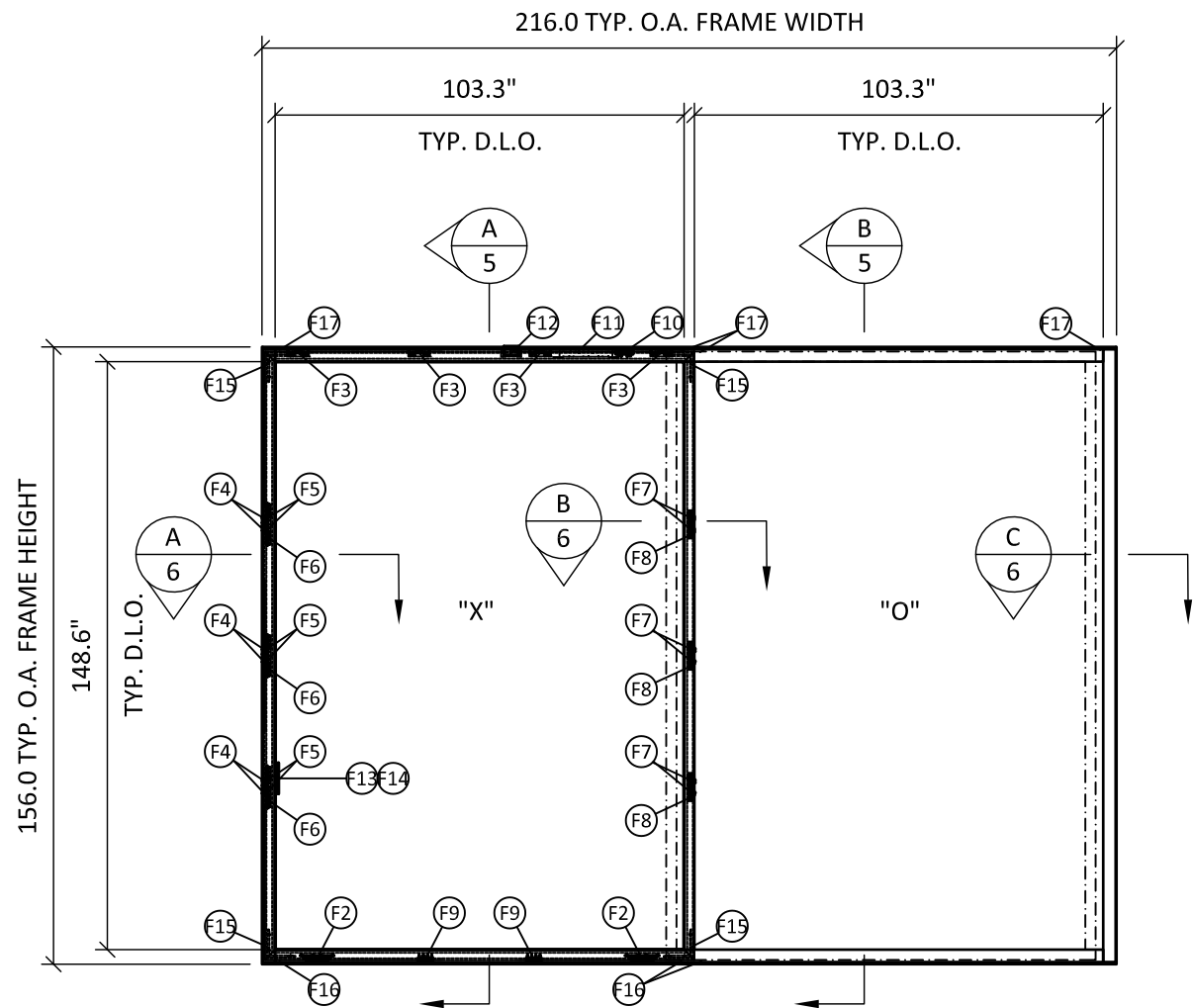
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DWG. #: **ALT001**

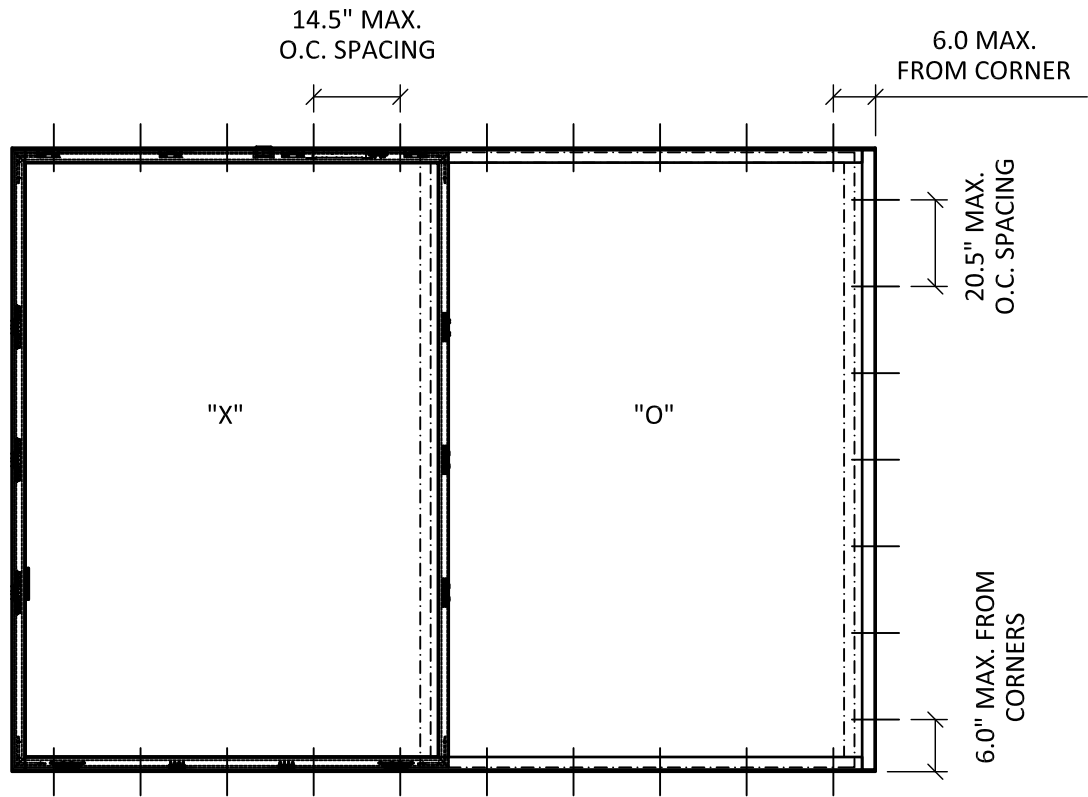
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OF 14



ELEVATION
SLIDING GLASS DOOR



ANCHOR LAYOUT
THROUGH FRAME

DESIGN PRESSURE TABLE - SLIDING GLASS DOOR																		
PANEL WIDTH (INCHES)																		
FRAME HEIGHT (INCHES)	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
	24	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	36	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	48	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	60	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	72	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
	84	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.5	49.5
	96	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	48.6	46.9	
	108	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	47.5	45.5	
	120	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	47.4	45.0	
	132	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	47.4	45.0	
	144	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	47.4		
	156	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0			

- QUALIFIED CONFIGURATIONS:
1. TYPICAL ELEVATIONS ARE SHOWN. SYSTEM IS QUALIFIED FOR CONFIGURATIONS NOT EXCEEDING THE PANEL SIZES SHOWN IN THE ABOVE TABLE, USING A MAXIMUM OF SIX PANELS.
 2. OPERABLE PANELS ARE LOCATED ON EXTERIOR TRACK. FIXED PANELS ON INTERIOR TRACK.
 3. MOTORIZATION IS OUTSIDE THE SCOPE OF THIS APPROVAL.
 4. ALL CONFIGURATIONS ARE RATED FOR AIR AND WATER INFILTRATION REQUIREMENTS.

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TITLE: **AIR-LUX SERIES 173 SLIDING GLASS DOOR (HVHZ) (IMPACT)**

ELEVATION AND ANCHORS LAYOUT

PREPARED BY: **BUILDING DROPS, INC.**
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REMARKS	BY	DATE
A. 7TH FBC UPDATE	MS	11.05.20

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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 #: **FL29501**

DATE: **04.09.19**

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SCALE: **NTS**

DWG. #: **ALT001**

SHEET: **2**

OF 14

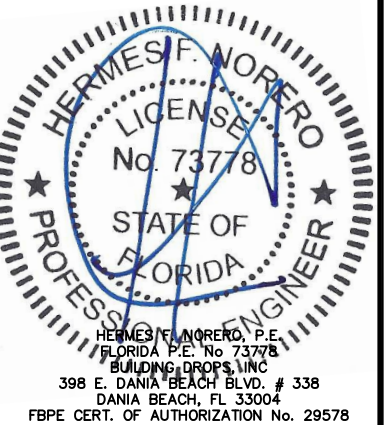
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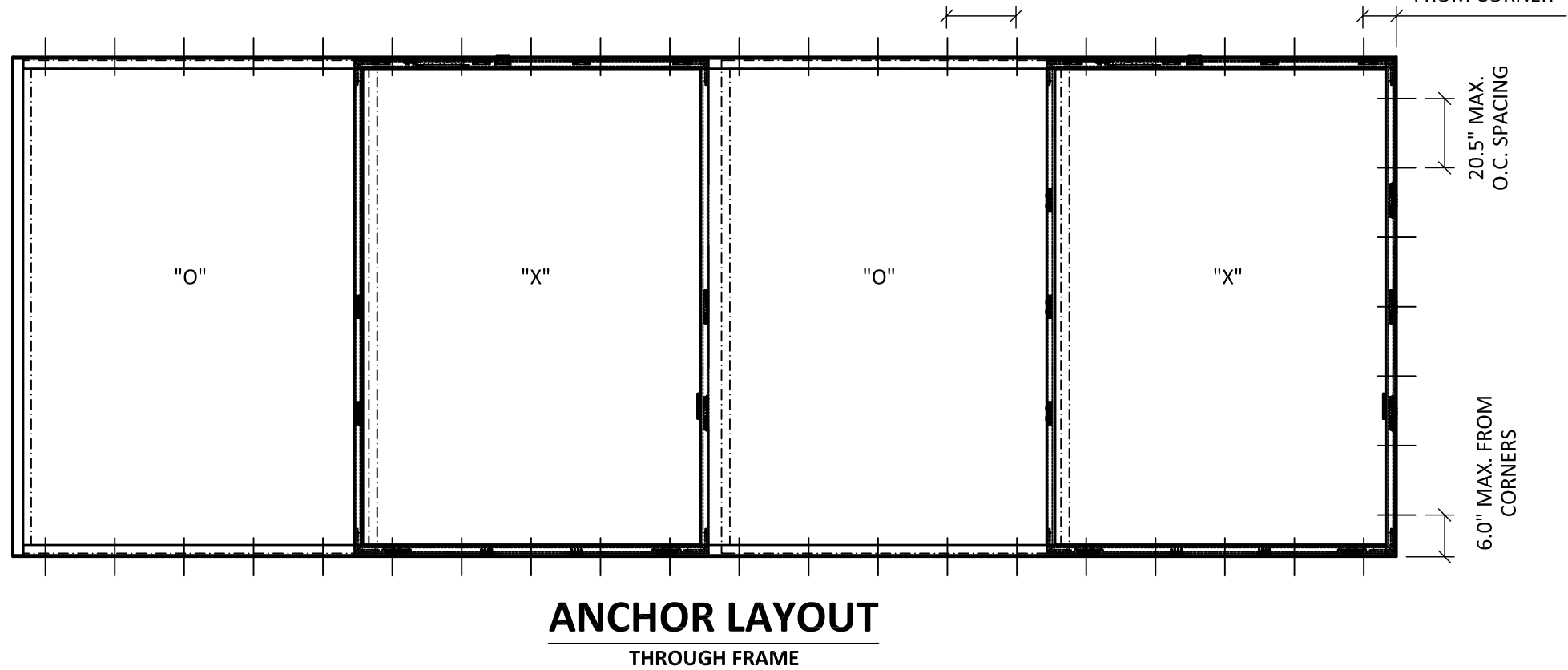
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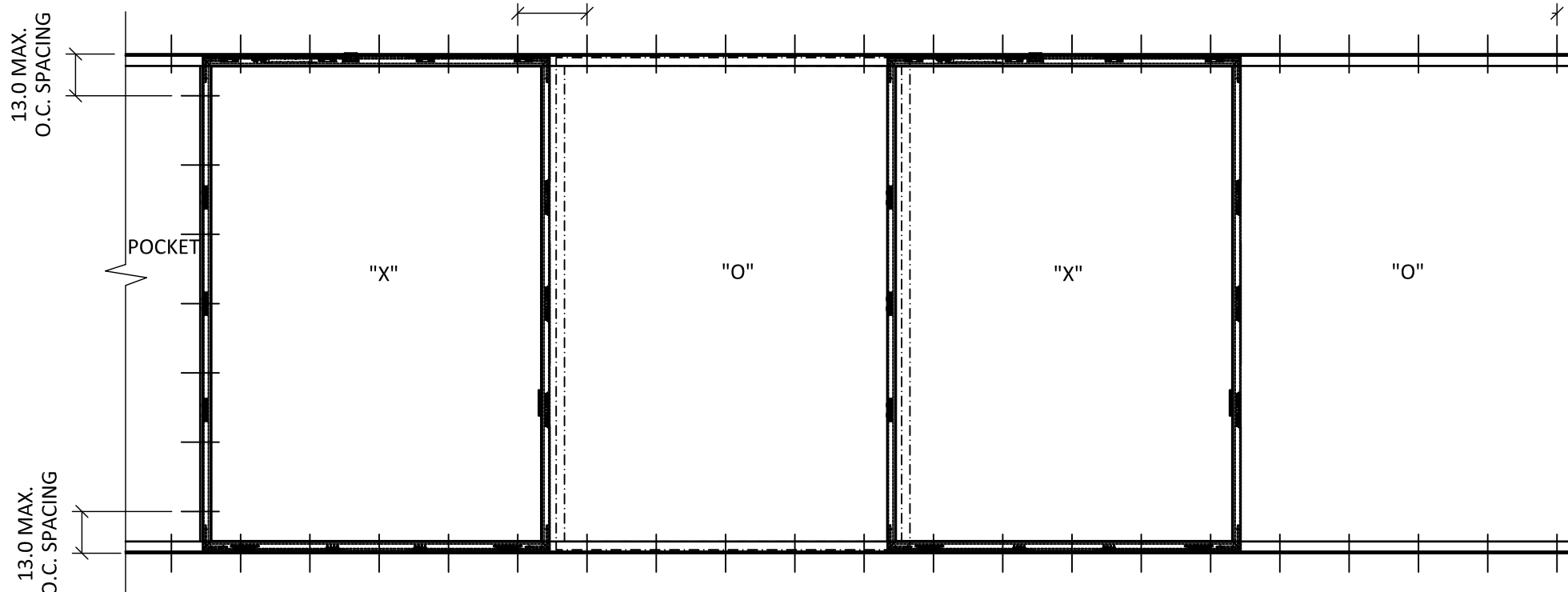
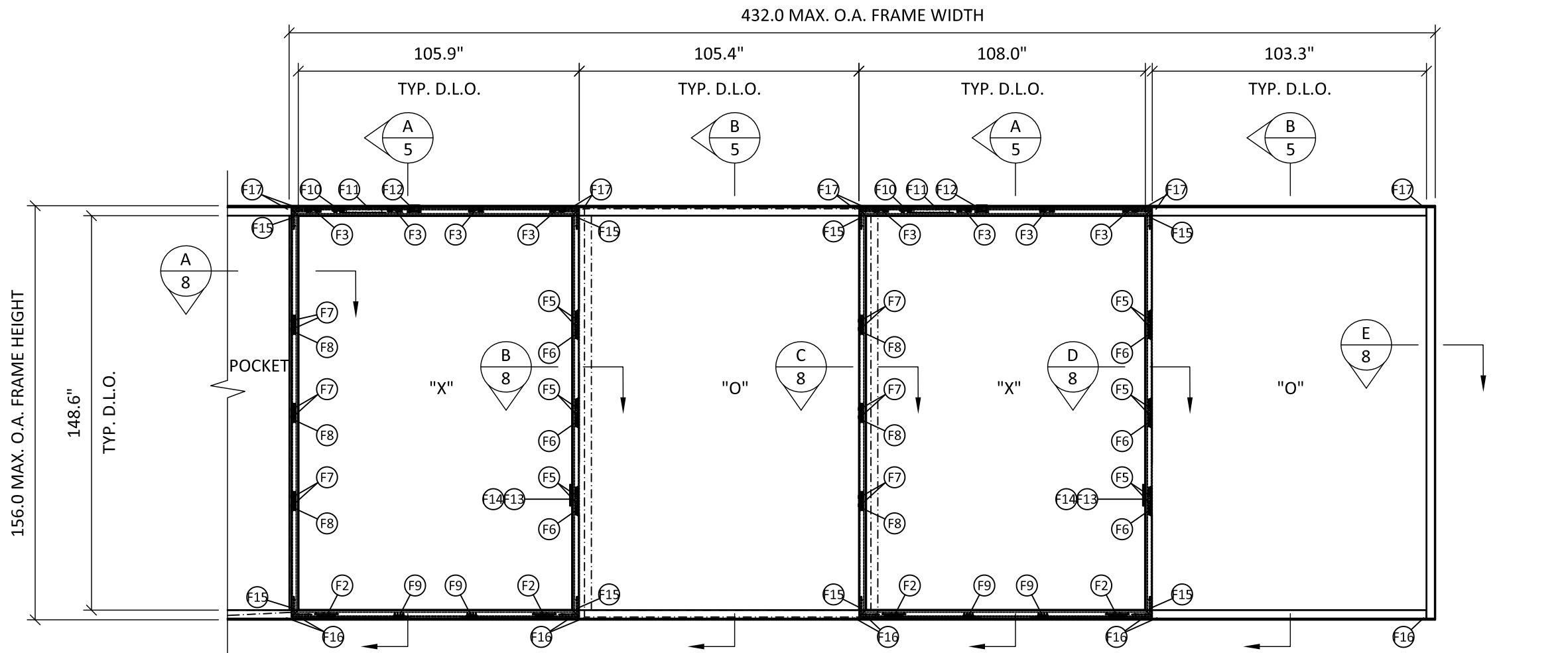
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ANCHOR LAYOUT
THROUGH FRAME

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GLASS DOOR (HVHZ) (IMPACT)**

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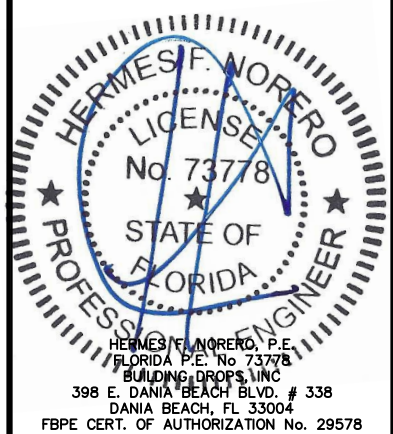
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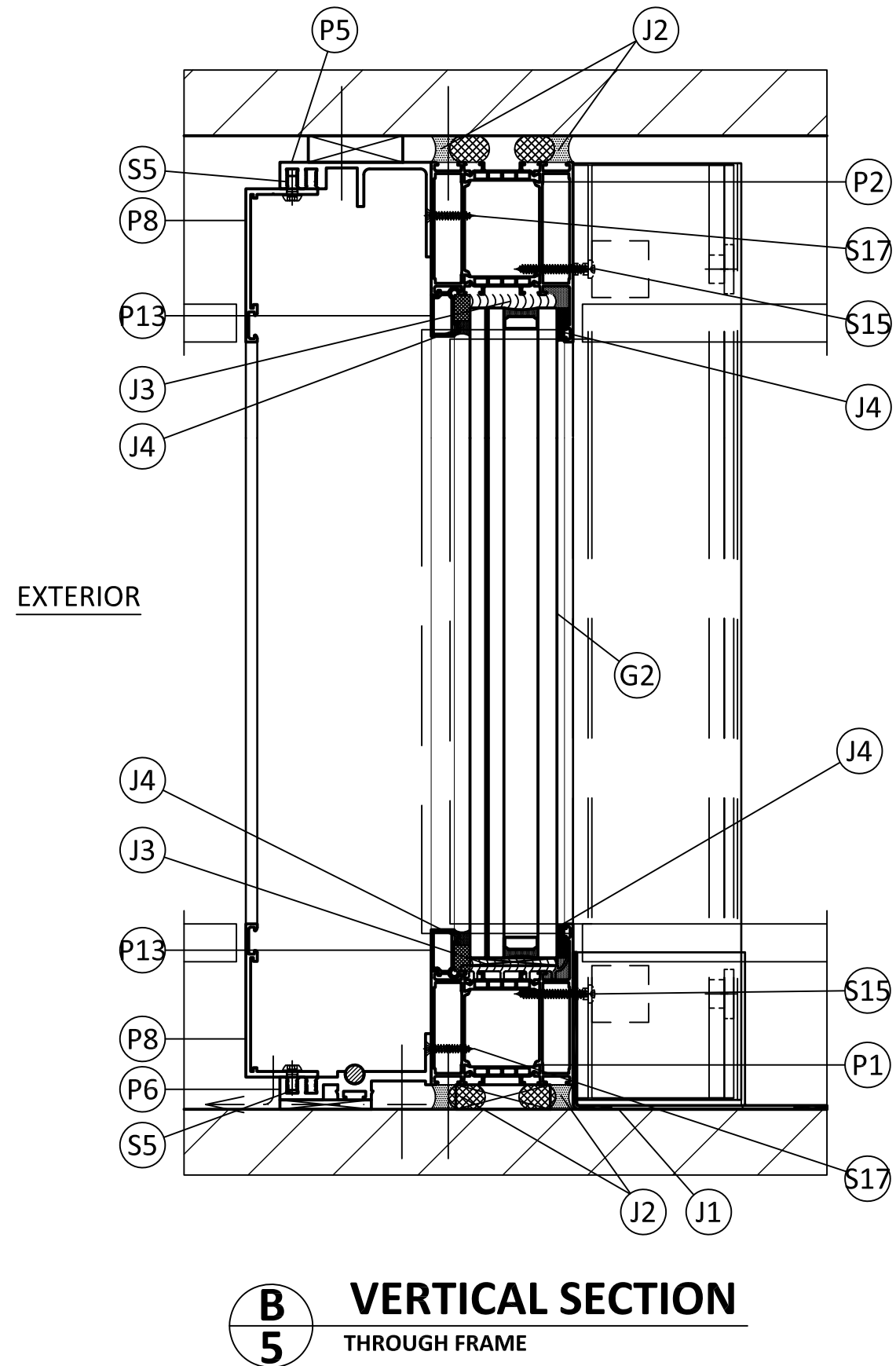
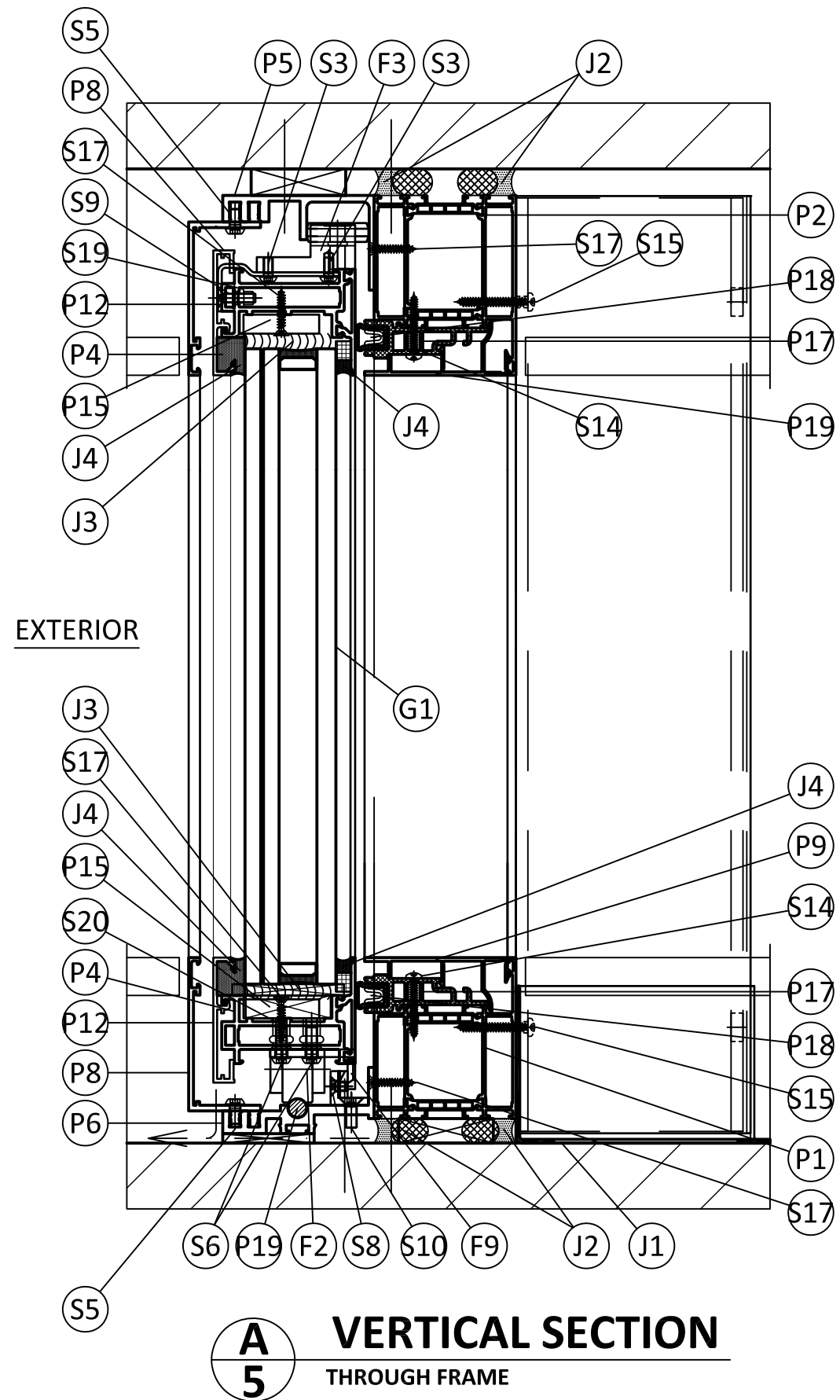
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TITLE: AIR-LUX SERIES 173 SLIDING
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VERTICAL SECTIONS

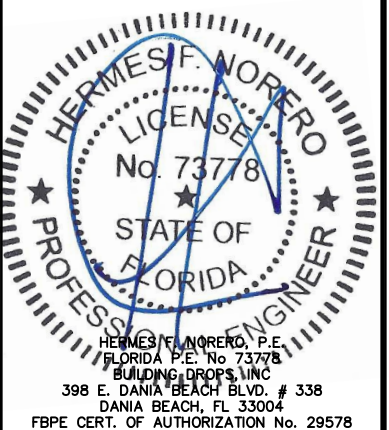
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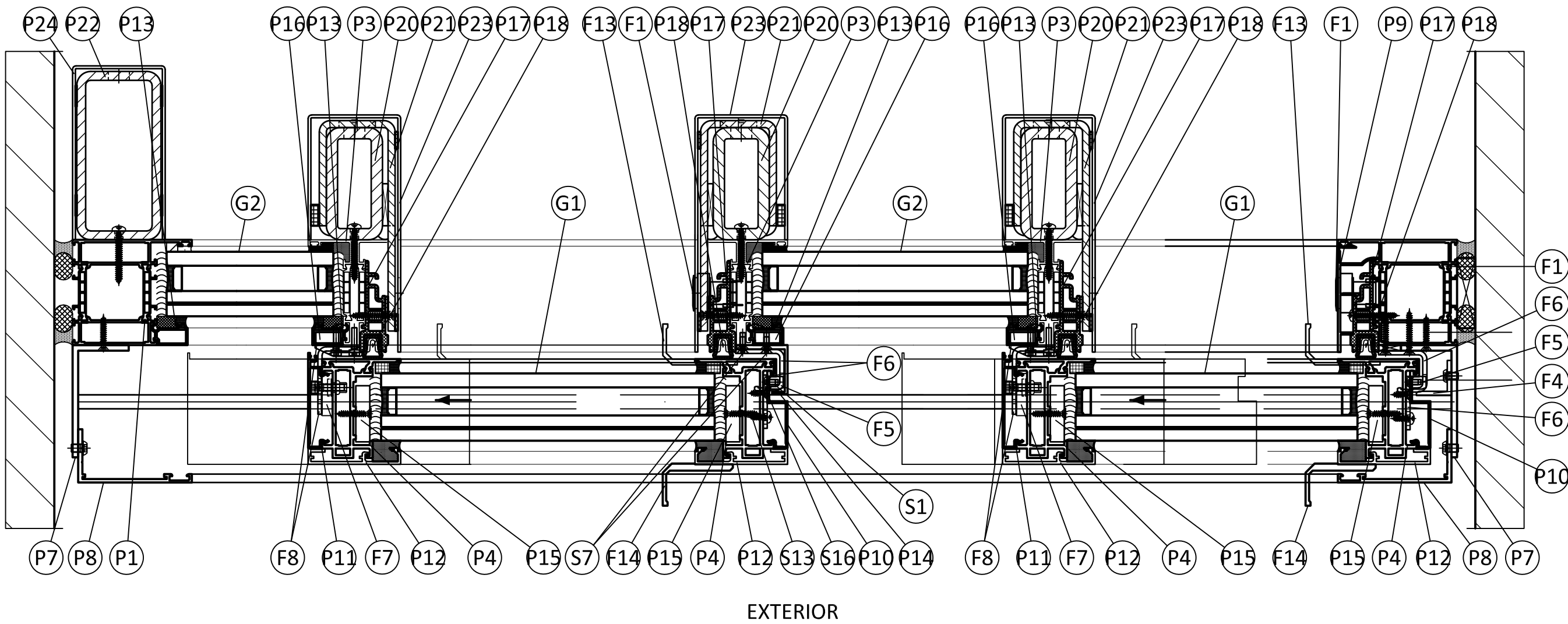


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SHEET:	5



A
7 **HORIZONTAL SECTION**
THROUGH FRAME - FLOATING JAMB

C
7 **HORIZONTAL SECTION**
THROUGH FRAME

E
7 **HORIZONTAL SECTION**
THROUGH FRAME - ANCHORED

B
7 **HORIZONTAL SECTION**
THROUGH FRAME

D
7 **HORIZONTAL SECTION**
THROUGH FRAME

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HORIZONTAL SECTIONS

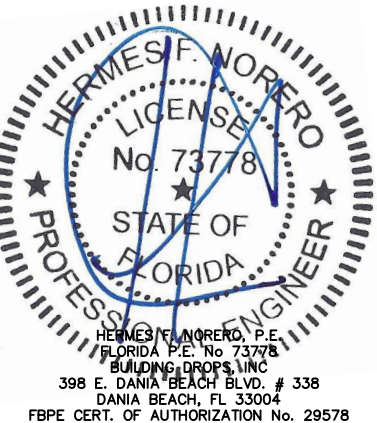
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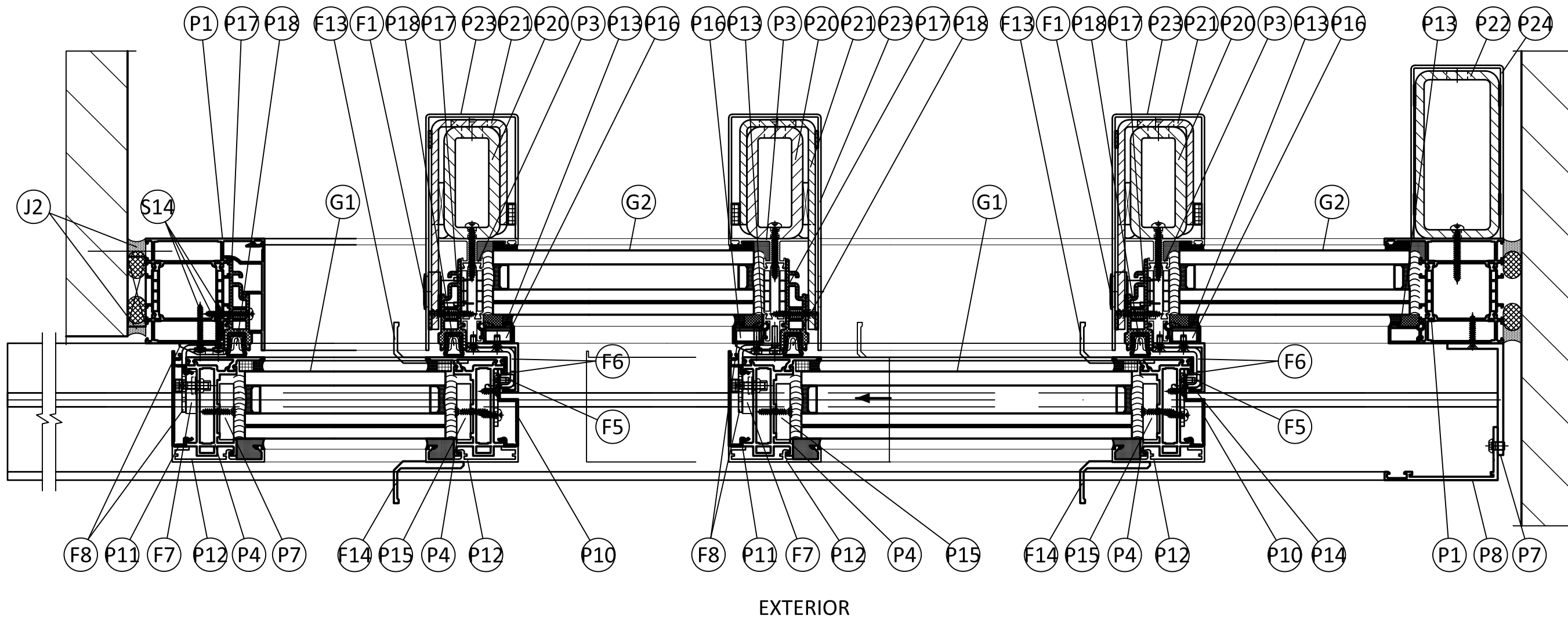


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SHEET:	7



A
8 **HORIZONTAL SECTION**
THROUGH FRAME - POCKET - ANCHORED

B
8 **HORIZONTAL SECTION**
THROUGH FRAME

C
8 **HORIZONTAL SECTION**
THROUGH FRAME

D
8 **HORIZONTAL SECTION**
THROUGH FRAME

E
8 **HORIZONTAL SECTION**
THROUGH FRAME - FLOATING JAMB

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GLASS DOOR (HVHZ) (IMPACT)**

HORIZONTAL SECTIONS

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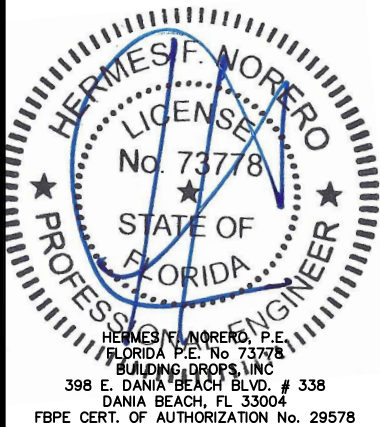
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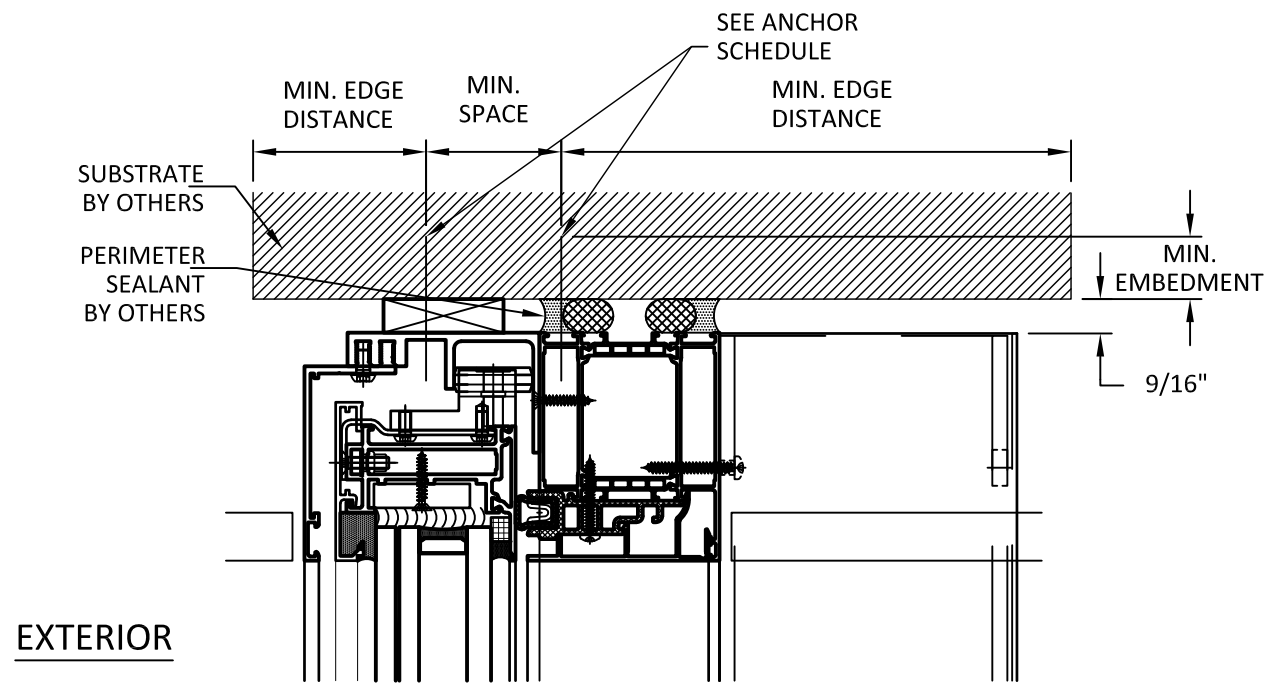
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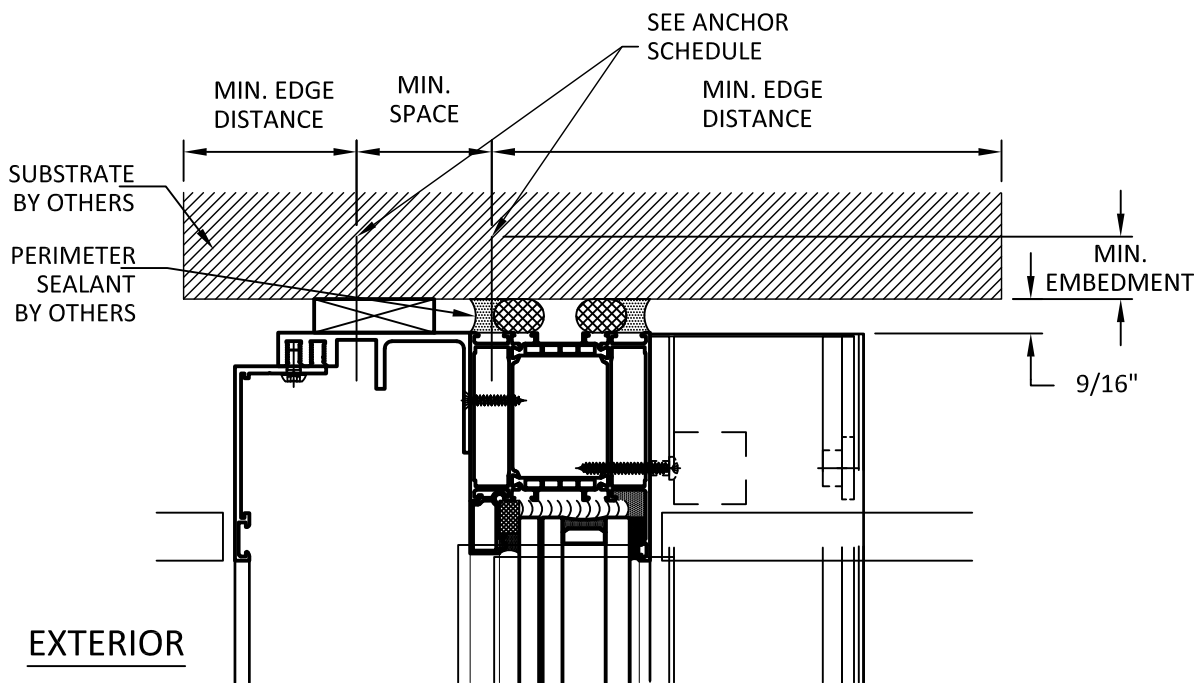
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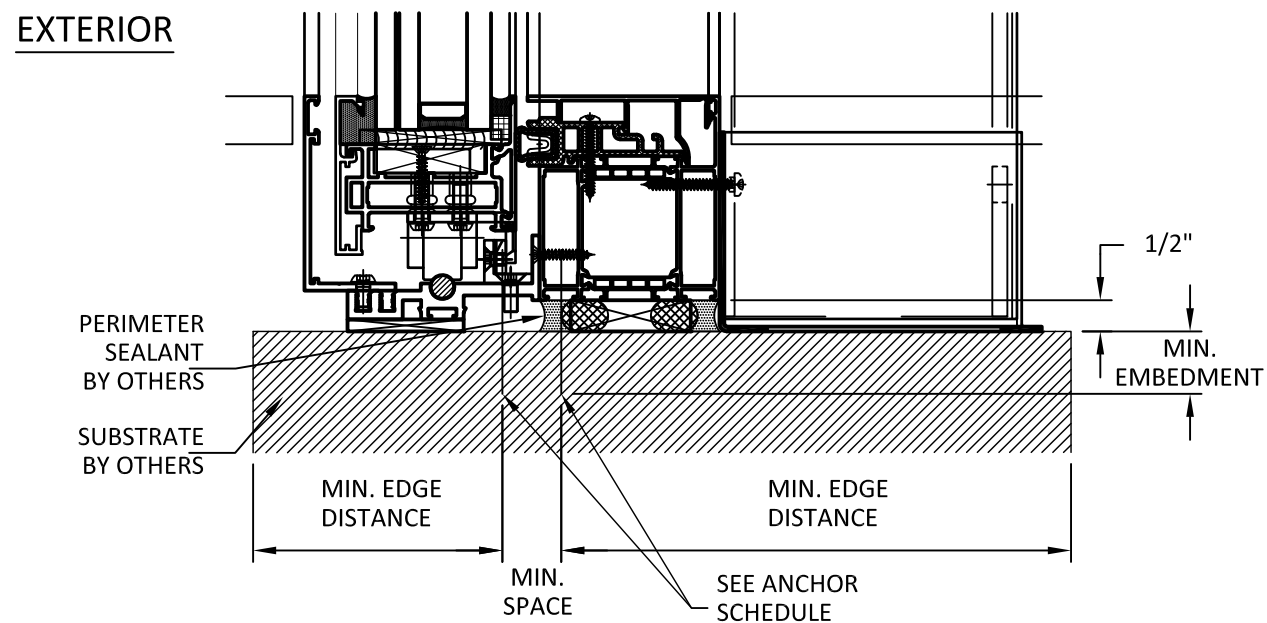
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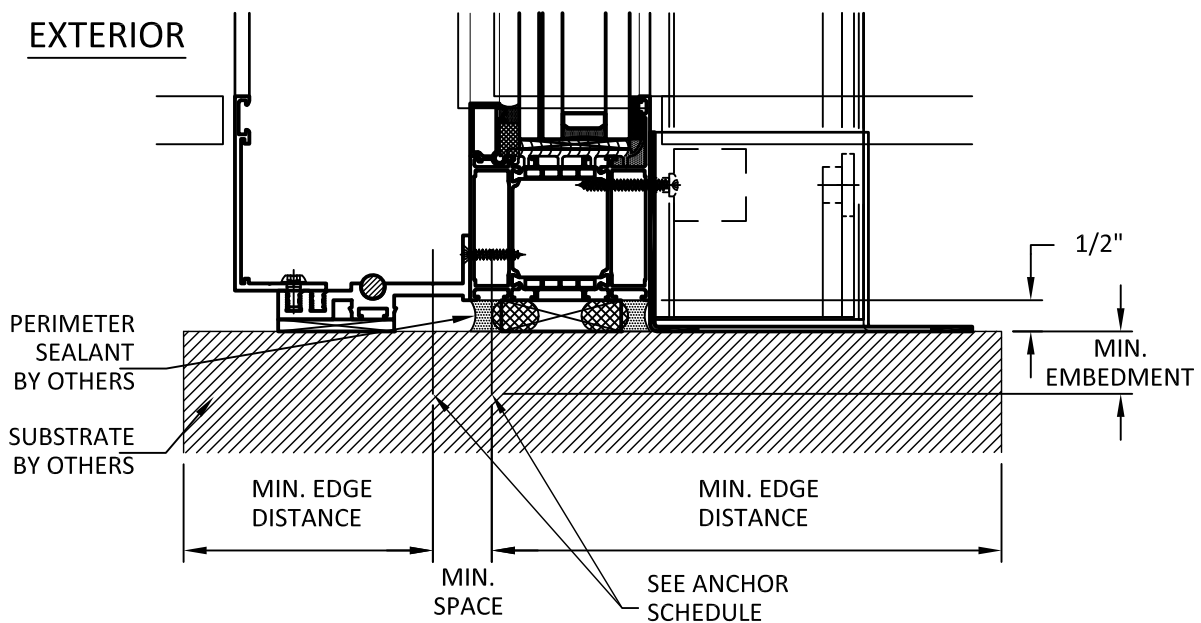
A
9 HEAD ANCHOR DETAIL



B
9 HEAD ANCHOR DETAIL



C
9 SILL ANCHOR DETAIL



D
9 SILL ANCHOR DETAIL

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ANCHOR DETAILS

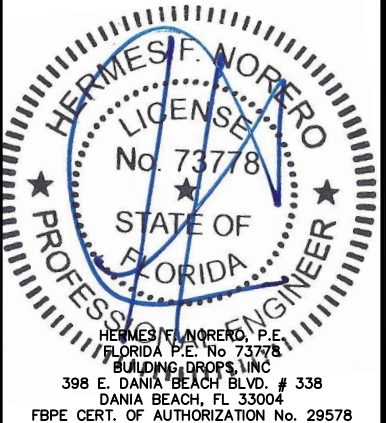
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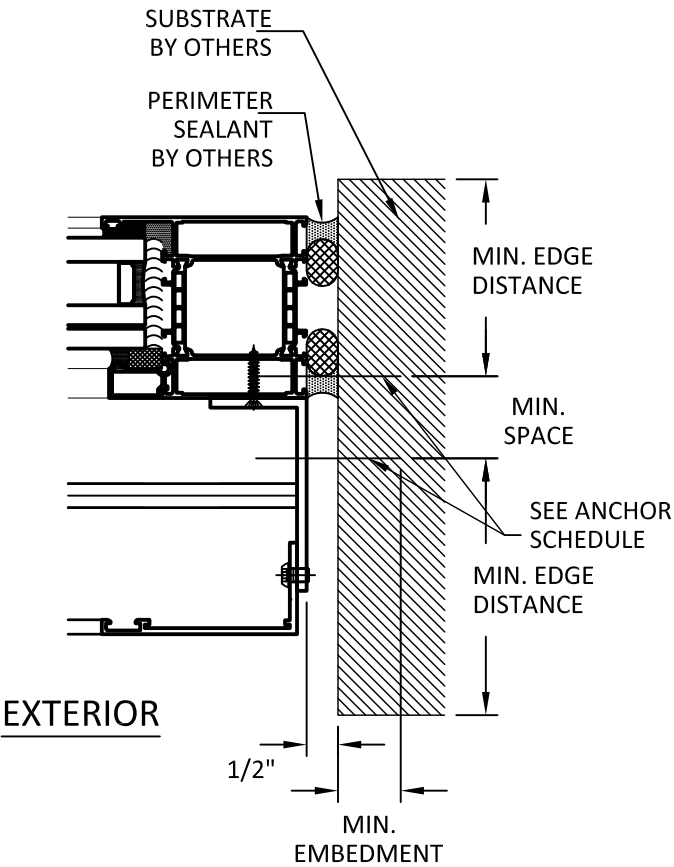
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SHEET:	9

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/2 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 11 GA. WALL THICKNESS.

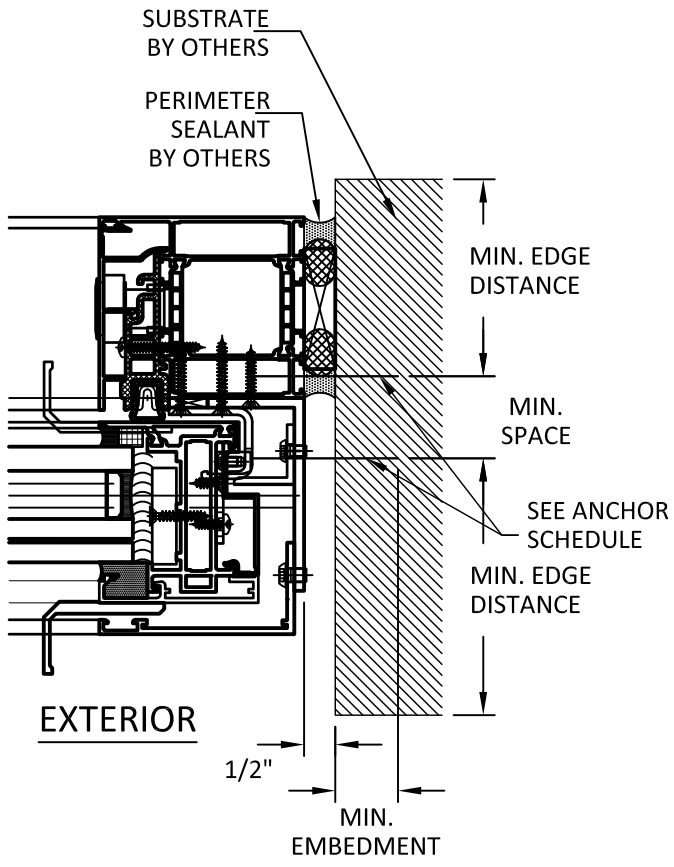


A
10 JAMB ANCHOR DETAIL

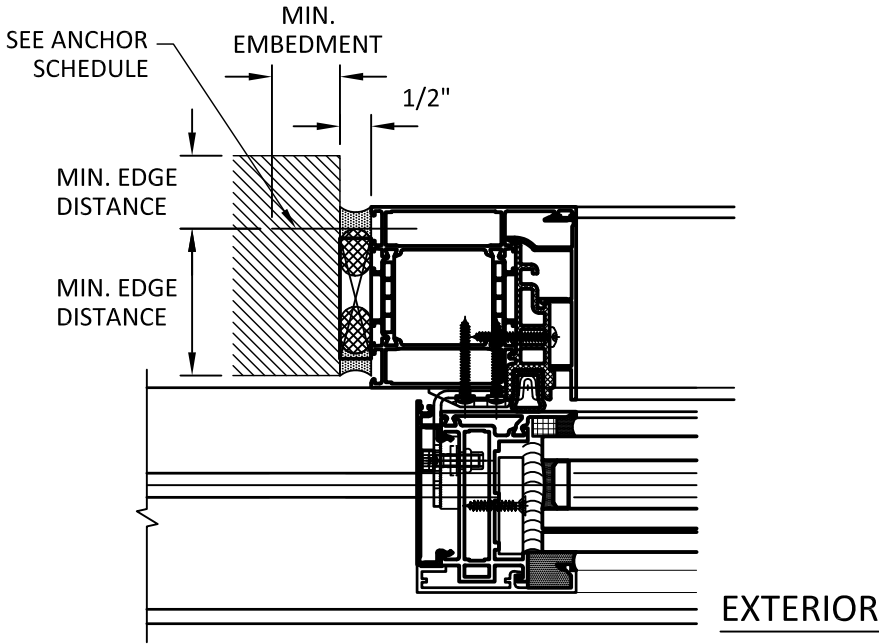
JAMB NOTE:

- ANCHORED JAMBS SHOWN. FLOATING JAMBS QUALIFIED AS SHOWN ON SHEETS 6-8 WITH STEEL REINFORCING. NO ANCHORS ARE REQUIRED FOR FLOATING JAMBS.

ANCHOR SCHEDULE				
SUBSTRATE	ANCHOR	EMBEDMENT	MIN. SPACING	MIN. EDGE DISTANCE
WOOD (S.G.=0.55)	3/8" LAG SCREW	2.00	1.50	1.50
CONCRETE (F'C =3000)	3/8" HILTI KWIK BOLT 3	1.63	3.00	2.50
	3/8" POWER WEDGE-BOLT	1.50	3.00	2.50
STEEL	5/16" TEK SCREW GRADE 5	3 THREADS	1.00	0.50



B
10 JAMB ANCHOR DETAIL



C
10 JAMB ANCHOR DETAIL

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TITLE: AIR-LUX SERIES 173 SLIDING GLASS DOOR (HVHZ) (IMPACT)

ANCHOR DETAILS, SCHEDULE & INSTALLATION NOTES

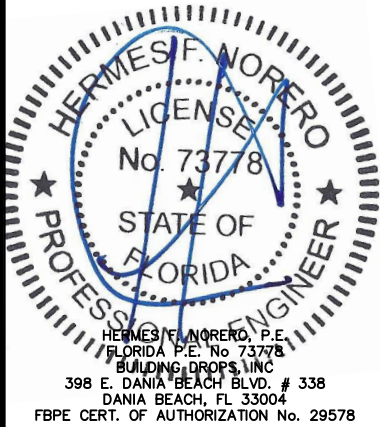
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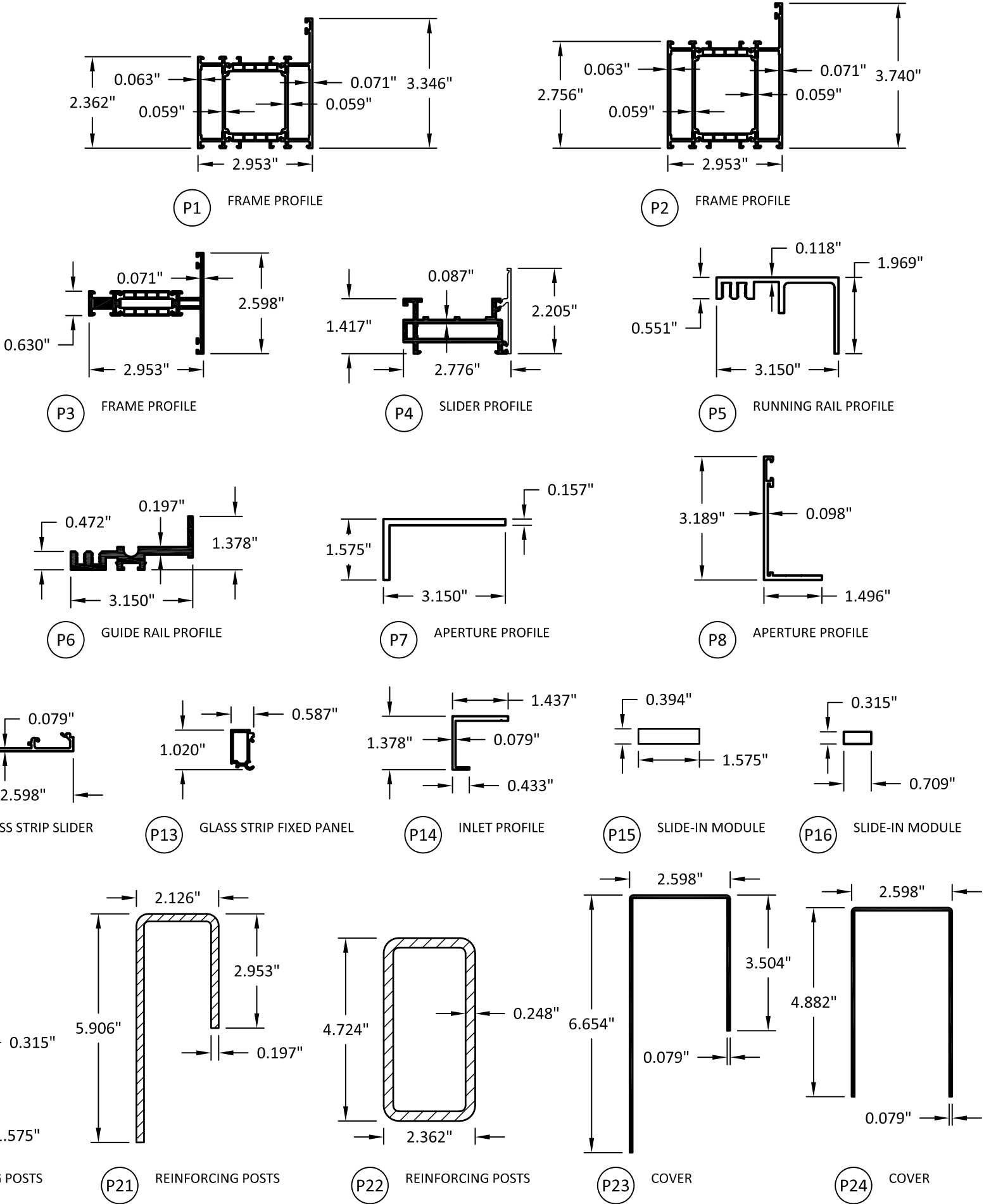
REMARKS	BY	DATE
A. 7TH FBC UPDATE	MS	11.05.20

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RV		HFN	
SCALE:		NTS	
DWG. #:		ALT001	
SHEET:		10	

BILL OF MATERIALS (PROFILES)			
ITEM	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
P1	FRAME PROFILE	ALUMINUM 6060-T66	AIR-LUX
P2	FRAME PROFILE	ALUMINUM 6060-T66	AIR-LUX
P3	FRAME PROFILE	ALUMINUM 6060-T66	AIR-LUX
P4	SLIDER PROFILE	ALUMINUM 6060-T66	AIR-LUX
P5	RUNNING RAIL PROFILE	ALUMINUM 6060-T66	AIR-LUX
P6	GUIDE RAIL PROFILE	ALUMINUM 6060-T66	AIR-LUX
P7	APERTURE PROFILE	ALUMINUM 6060-T66	AIR-LUX
P8	APERTURE PROFILE	ALUMINUM 6060-T66	AIR-LUX
P9	REVEAL PROFILE	ALUMINUM 6060-T66	AIR-LUX
P10	CLIP PROFILE	ALUMINUM 6060-T66	AIR-LUX
P11	CLIP PROFILE	ALUMINUM 6060-T66	AIR-LUX
P12	GLASS STRIP SLIDER	ALUMINUM 6060-T66	AIR-LUX
P13	GLASS STRIP FIXED PANEL	ALUMINUM 6060-T66	AIR-LUX
P14	INLET PROFILE	ALUMINUM 6060-T66	AIR-LUX
P15	SLIDE-IN MODULE	ALUMINUM 6060-T66	AIR-LUX
P16	SLIDE-IN MODULE	ALUMINUM 6060-T66	AIR-LUX
P17	GASKET SUPPORT PROFILE	PVC	AIR-LUX
P18	SEAL	EPDM	AIR-LUX
P19	RUNNING ROUND	STAINLESS STEEL	AIR-LUX
P20	REINFORCING POSTS	STEEL	AIR-LUX
P21	REINFORCING POSTS	STEEL	AIR-LUX
P22	REINFORCING POSTS	STEEL	AIR-LUX
P23	COVER	ALUMINUM 5005	AIR-LUX
P24	COVER	ALUMINUM 5005	AIR-LUX



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TITLE: AIR-LUX SERIES 173 SLIDING
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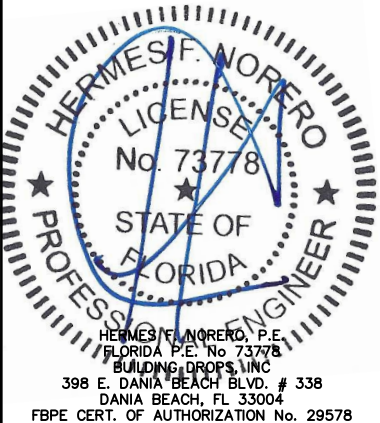
COMPONENTS AND
BILL OF MATERIALS

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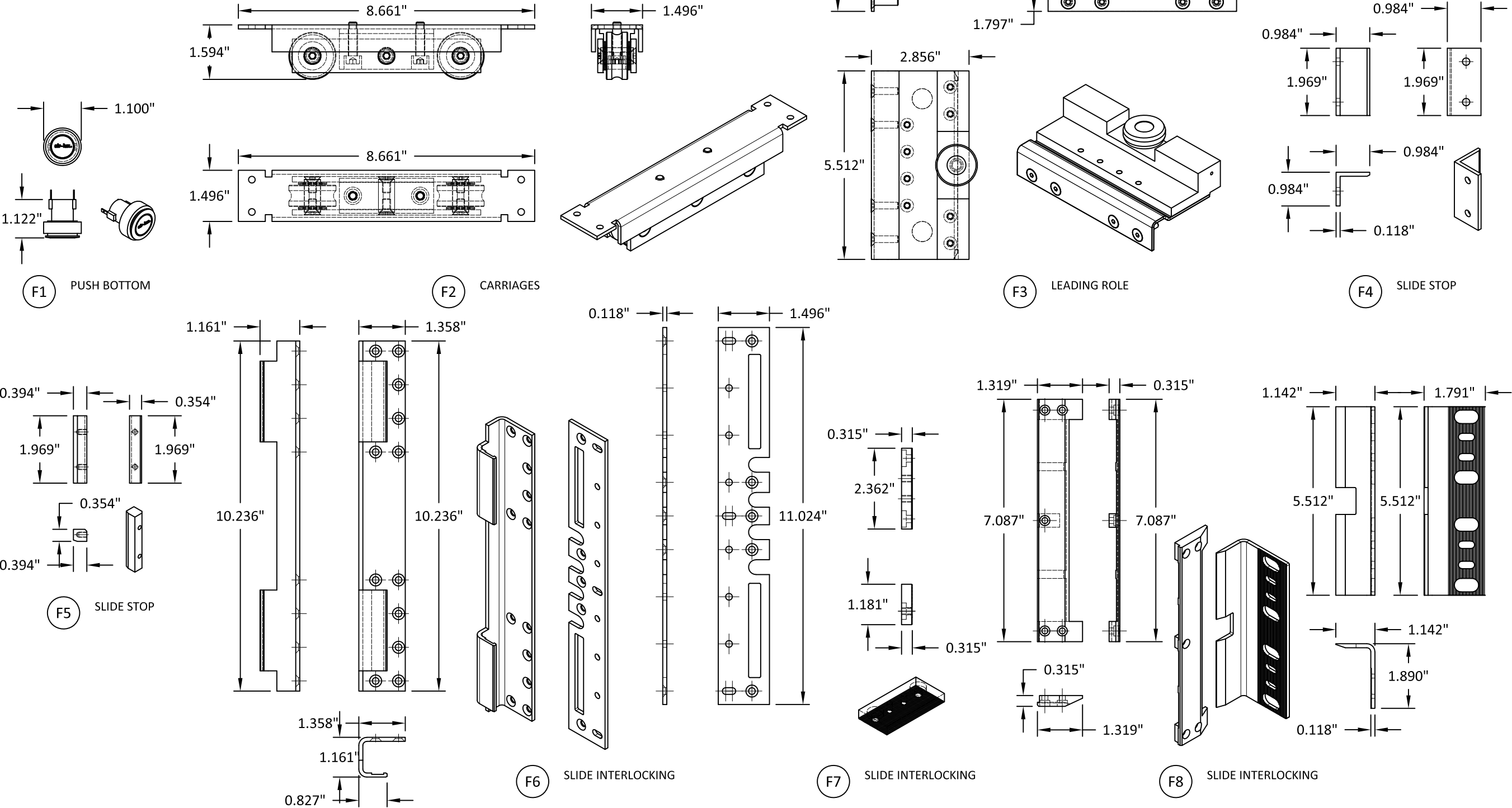
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BILL OF MATERIALS (FITTINGS)			
ITEM	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
F1	PUSH BUTTON	STAINLESS STEEL	AIR-LUX
F2	CARRIAGES	STAINLESS STEEL	AIR-LUX
F3	LEADING ROLE	STAINLESS STEEL ALUMINUM 6060-T66 PLASTIC NYLON	AIR-LUX
F4	SLIDE STOP	ALUMINUM 6060-T66	AIR-LUX
F5	SLIDE STOP	ALUMINUM 6060-T66	AIR-LUX
F6	SLIDE INTERLOCKING	STAINLESS STEEL	AIR-LUX
F7	SLIDE INTERLOCKING	ALUMINUM 6060-T66	AIR-LUX
F8	SLIDE INTERLOCKING	STAINLESS STEEL	AIR-LUX



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TITLE: AIR-LUX SERIES 173 SLIDING
GLASS DOOR (HVHZ) (IMPACT)

BILL OF MATERIALS (FITTINGS)

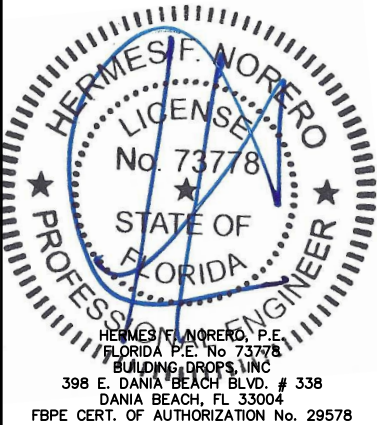
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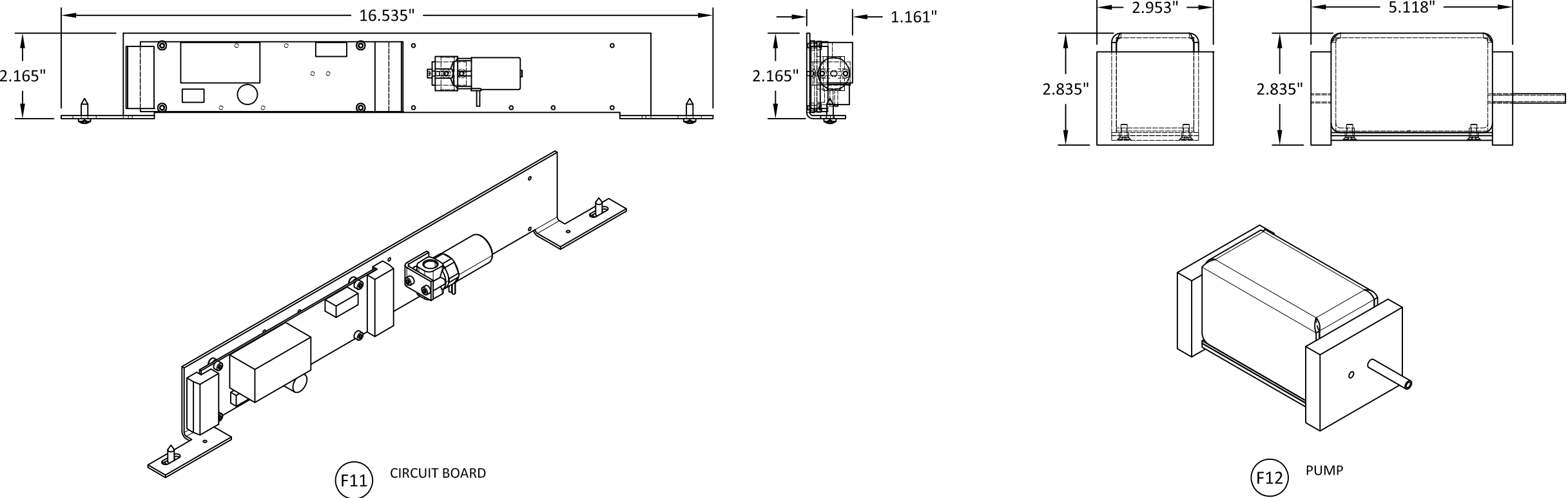
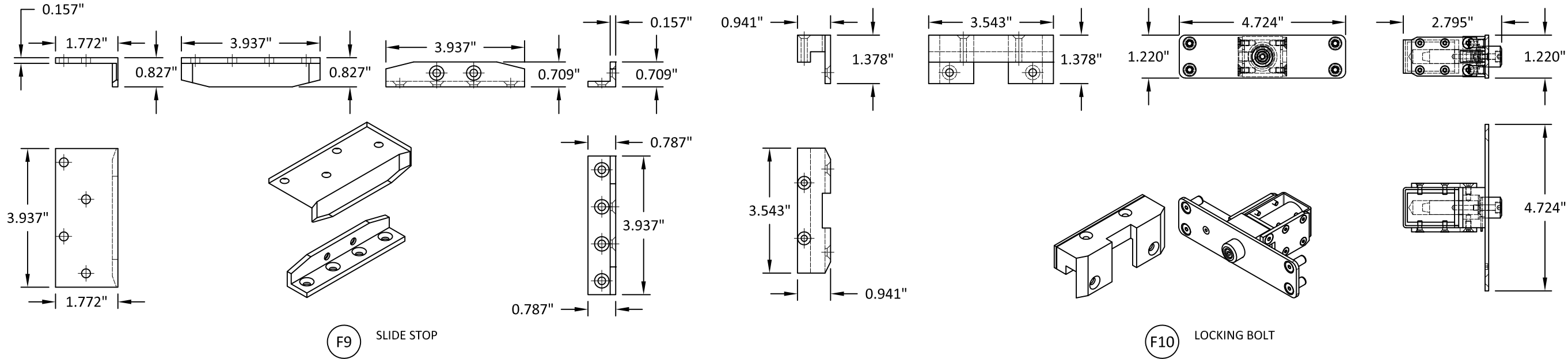


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BILL OF MATERIALS (FITTINGS)			
ITEM	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
F9	SLIDE STOP	ALUMINUM 6060-T66	AIR-LUX
F10	LOCKING BOLT	ALUMINUM 6060-T66 STAINLESS STEEL ELECTRONIC COMPONENT	AIR-LUX
F11	CIRCUIT BOARD	ELECTRONIC COMPONENT	AIR-LUX
F12	PUMP	ELECTRONIC COMPONENT	AIR-LUX



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TITLE: AIR-LUX SERIES 173 SLIDING
GLASS DOOR (HVHZ) (IMPACT)

BILL OF MATERIALS (FITTINGS)

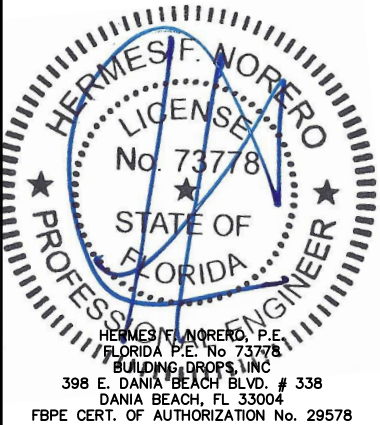
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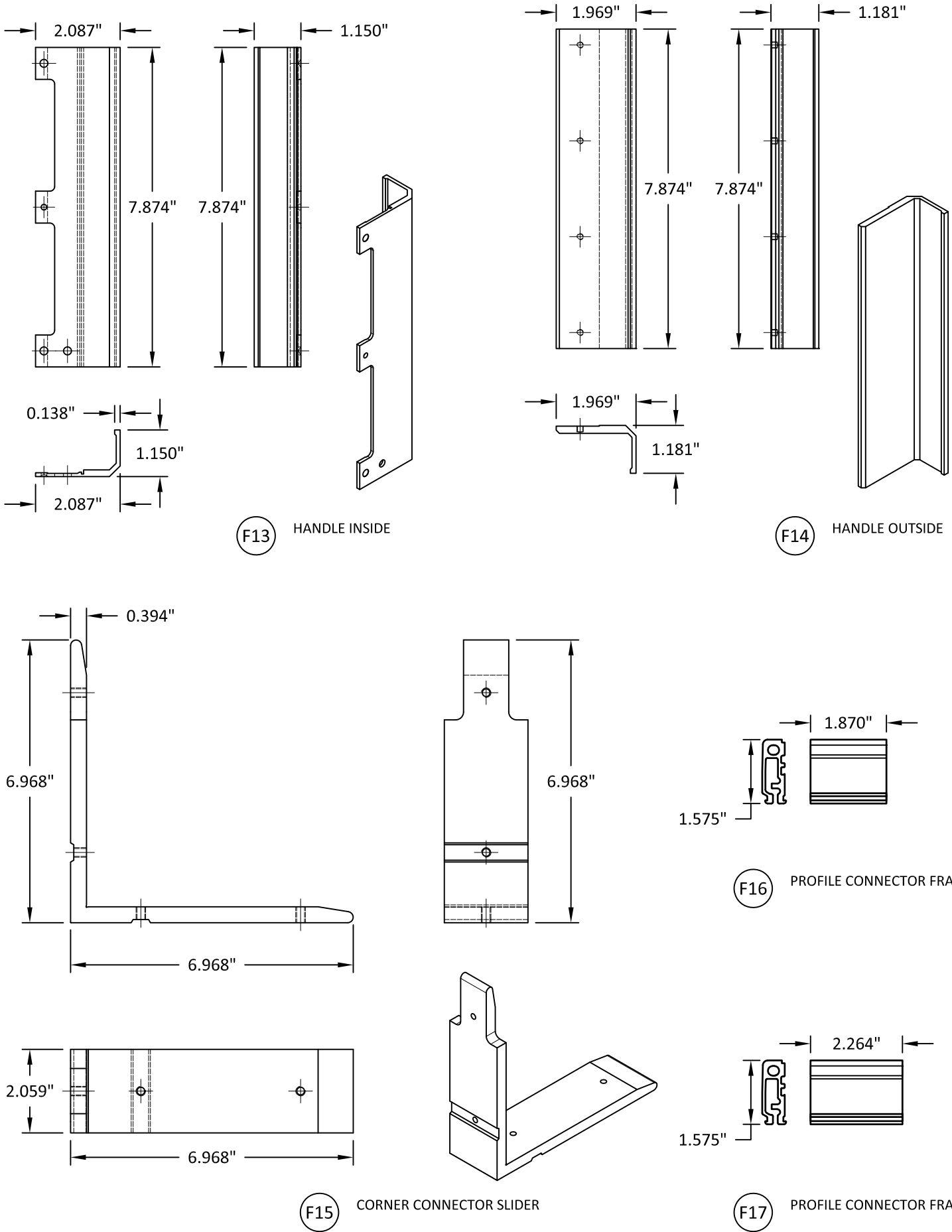
SHEET: 13

OF 14

BILL OF MATERIALS (FITTINGS)			
ITEM	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
F13	HANDLE INSIDE	ALUMINUM 6060-T66	AIR-LUX
F14	HANDLE OUTSIDE	ALUMINUM 6060-T66	AIR-LUX
F15	CORNER CONNECTOR SLIDER	ALUMINUM 6060-T66	AIR-LUX
F16	PROFILE CONNECTOR FRAME	ALUMINUM 6060-T66	AIR-LUX
F17	PROFILE CONNECTOR FRAME	ALUMINUM 6060-T66	AIR-LUX

BILL OF MATERIALS (SCREWS)		
ITEM	DESCRIPTION	MATERIAL
S1	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO7380 STAINLESS #8x1/4" [M4x6MM]
S2	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO7380 STAINLESS #10x5/16" [M5x8MM]
S3	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO7380 STAINLESS #10x3/8" [M5x10MM]
S4	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO7380 STAINLESS 1/4"x5/16" [M6x8MM]
S5	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO7380 STAINLESS 1/4"x3/8" [M6x10MM]
S6	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO7380 STAINLESS 1/4"x5/8" [M6x16MM]
S7	FLAT HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO10642 STAINLESS #8x1/2" [M4x12MM]
S8	FLAT HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO10642 STAINLESS #10x5/16" [M5x8MM]
S9	FLAT HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO10642 STAINLESS #10x3/4" [M5x20MM]
S10	FLAT HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO10642 STAINLESS 1/4"x5/8" [M6x16MM]
S11	CAP HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO4762 STAINLESS #8x5/8" [M4x16MM]
S12	CAP HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO4762 STAINLESS #10x3/4" [M5x20MM]
S13	CAP HEAD, SOCKET HEX DRV., MACHINE SCREW	ISO14585 STAINLESS 3/16"x1/2" [4,2x13MM]
S14	PAN HEAD, TORX, SEF-TAPPING SCREW	ISO14585 STAINLESS 3/16"x1 1/4" [4,2x32MM]
S15	PAN HEAD, TORX, SEF-TAPPING SCREW	ISO14585 STAINLESS 3/16"x1 1/2" [4,2x38MM]
S16	PAN HEAD, TORX, SEF-TAPPING SCREW	ISO14586 STAINLESS 3/16"x1/2" [4,2x13MM]
S17	PAN HEAD, TORX, SEF-TAPPING SCREW	ISO14586 STAINLESS 3/16"x1" [4,2x25MM]
S18	PAN HEAD, TORX, SEF-TAPPING SCREW	ISO14586 STAINLESS 3/16"x1 1/4" [4,2x32MM]
S19	BLIND RIVET NUT FLAT HEAD	ALUMINUM #10 [M5]
S20	BLIND RIVET NUT FLAT HEAD	ALUMINUM 1/4" [M6]

BILL OF MATERIALS (JOINTS)		
ITEM	DESCRIPTION	MATERIAL
J1	JOINT FRAME-STRUCTURE	LIQUID PLASTIC TRIFLEX PRO DETAIL
J2	JOINT FRAME-STRUCTURE	DOWSIL 791
J3	JOINT GLASS FRAME	DOWSIL 791
J4	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	DOWSIL 791



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TITLE: **AIR-LUX SERIES 173 SLIDING GLASS DOOR (HVHZ) (IMPACT)**

BILL OF MATERIALS (FITTINGS, SCREWS AND JOINTS)

PREPARED BY: **BUILDING DROPS, INC.**
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REMARKS	BY	DATE
A. 7TH FBC UPDATE	MS	11.05.20

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

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