

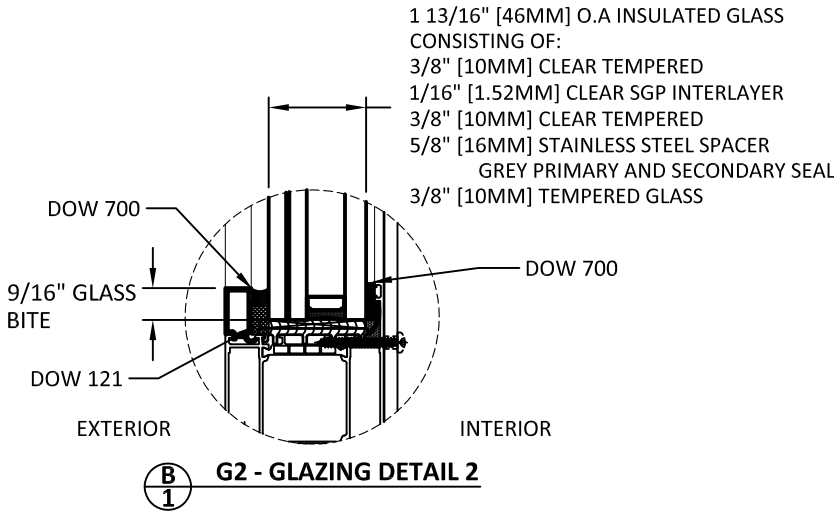
AIR-LUX TECHNIK AG

SERIES 173 WINDOW WALL

(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:

1. 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.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SIZE CHARTS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, TABLE OF CONTENTS & GLAZING DETAILS
2	ELEVATION AND ANCHORS LAYOUT
3	ELEVATION AND ANCHORS LAYOUT
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	HORIZONTAL SECTIONS
7	ANCHOR DETAILS, SCHEDULE & INSTALLATION NOTES
8	COMPONENTS AND BILL OF MATERIALS (SCREWS AND JOINTS)

MISSILE IMPACT RATING	DESIGN PRESSURE
LMI & SMI RATED	SEE SHEETS 2 AND 3 FOR DESIGN PRESSURE LIMITATIONS

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TITLE:
AIR-LUX SERIES 173
WINDOW WALL (HVHZ) (IMPACT)

GENERAL NOTES, TABLE OF
CONTENTS & GLAZING DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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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 23:57:24 -05'00'

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 #:
FL29500

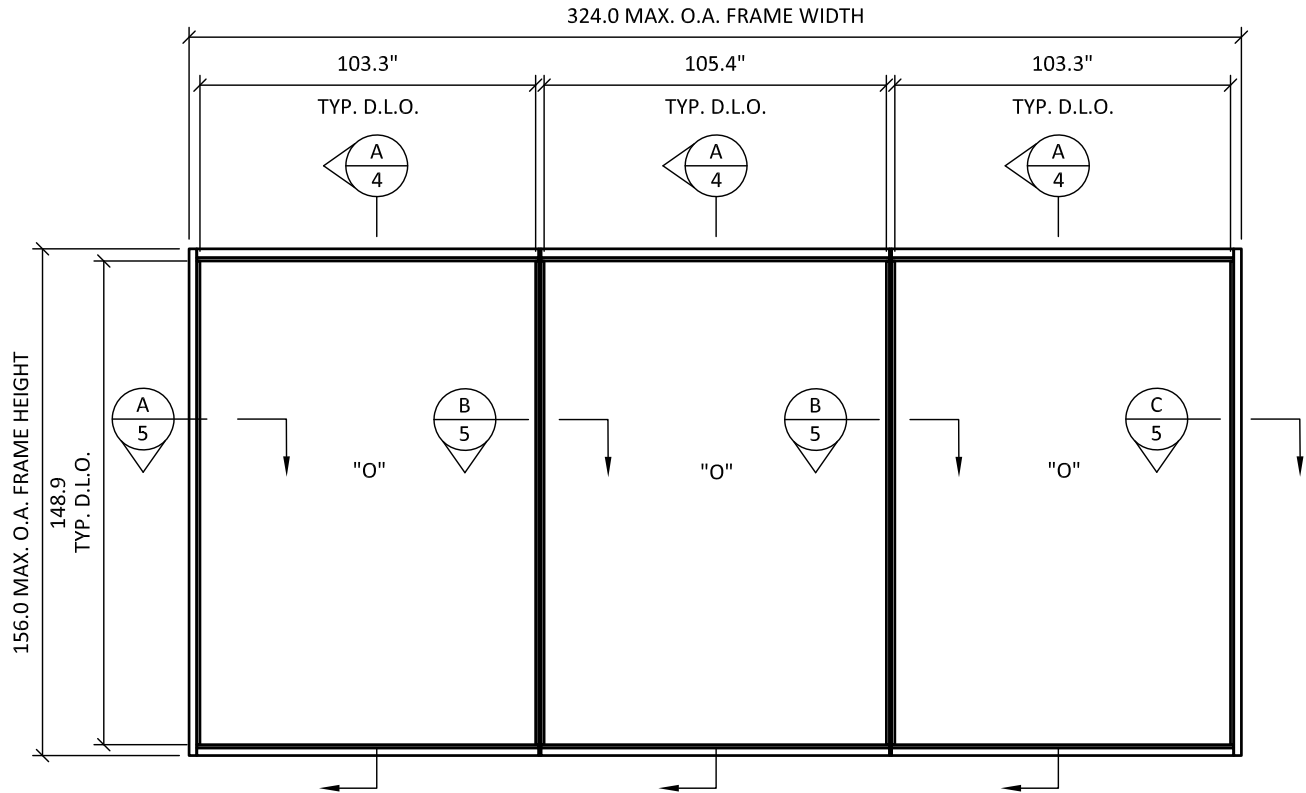
DATE: **04.09.19**

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

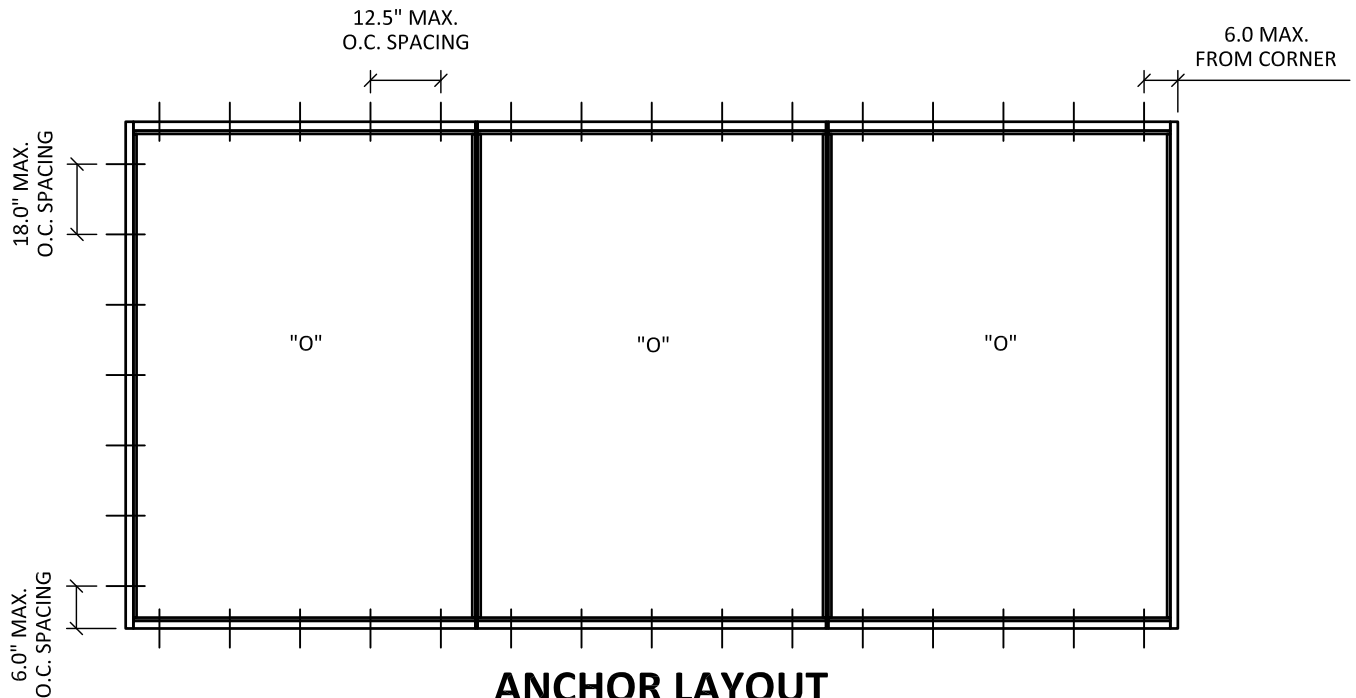
SCALE: **NTS**

DWG. #: **ALT002**

SHEET:
1
OF 8



ELEVATION
WINDOW WALL



ANCHOR LAYOUT
THROUGH FRAME

DESIGN PRESSURE TABLE - WINDOW WALL WITH STEEL REINFORCEMENT																		
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	50.0	50.0
	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	50.0	50.0	48.6
	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	50.0	50.0	47.5
	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	50.0	50.0	47.4
	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	50.0	50.0	47.4
	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	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	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 UNLIMITED 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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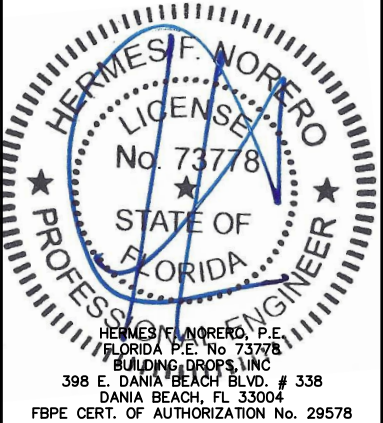
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ELEVATIONS AND
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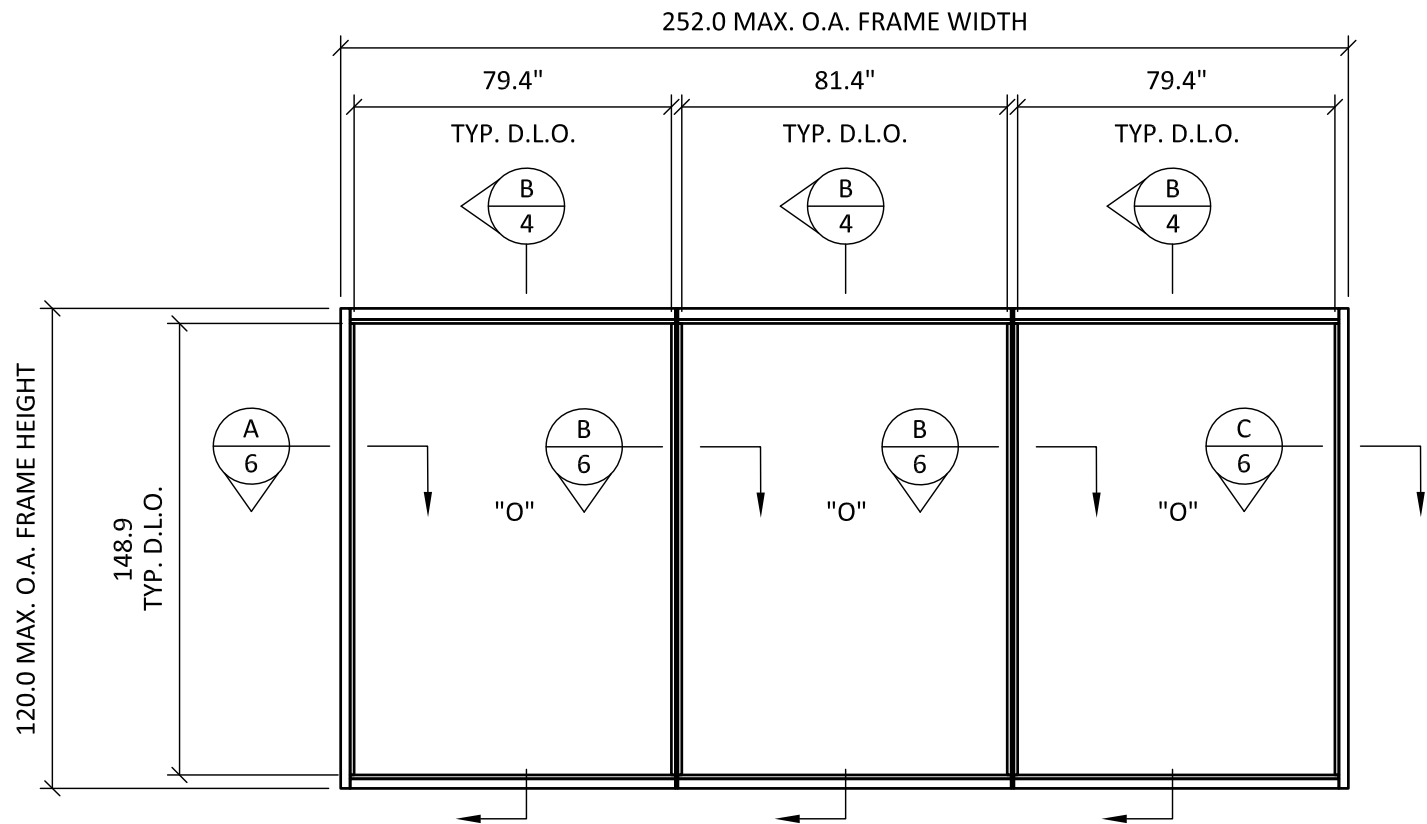
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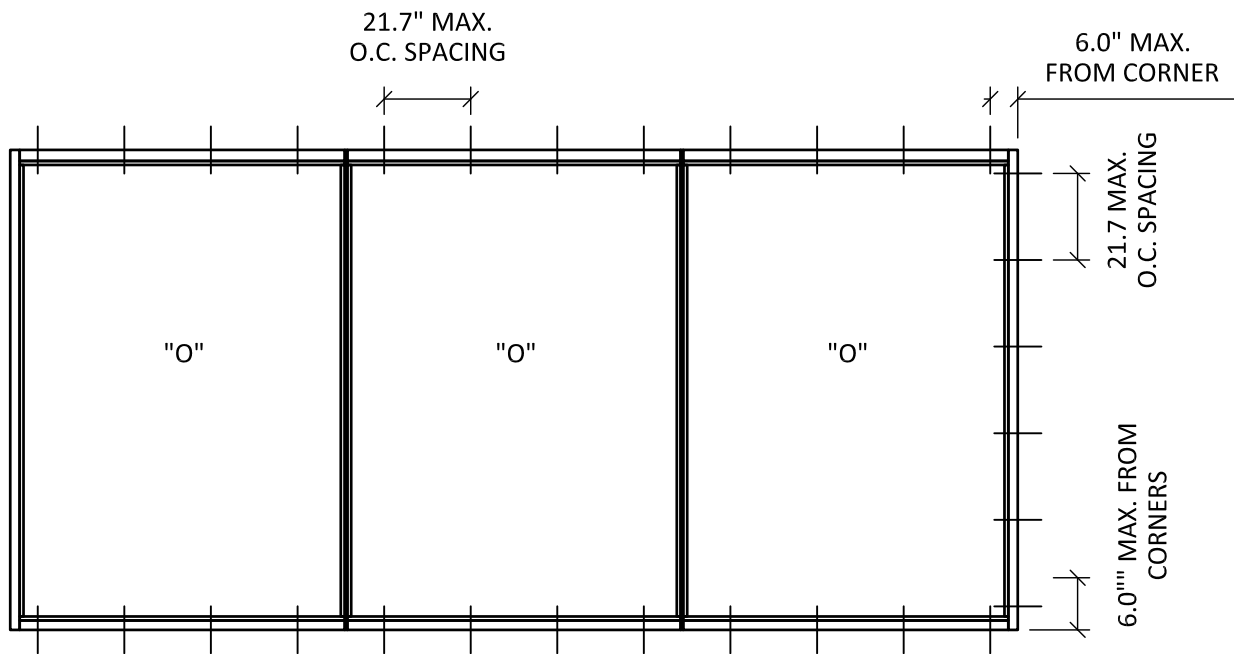
SCALE: **NTS**

DWG. #: **ALT002**

SHEET:
2
OF 8



ELEVATION
WINDOW WALL



ANCHOR LAYOUT
THROUGH FRAME

DESIGN PRESSURE TABLE - WINDOW WALL WITHOUT STEEL REINFORCEMENT																		
PANEL WIDTH (INCHES)																		
FRAME HEIGHT (INCHES)		24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
	24	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	30	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	36	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	42	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	48	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	54	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	60	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.8	19.4	19.0
	66	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.4	18.8	18.3	17.9
	72	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.4	18.7	18.0	17.5	17.1
	78	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.0	18.1	17.4	16.9	16.4
	84	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.8	17.8	17.0	16.4	15.8
	90	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.7	17.6	16.7	16.0	
	96	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.7	17.5	16.5		
	102	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.7	17.5			
108	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.7					
114	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0						
120	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0						

- QUALIFIED CONFIGURATIONS:
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air-lux®

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TITLE:
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WINDOW WALL (HVHZ) (IMPACT)
ELEVATION AND ANCHORS LAYOUT

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A. 7TH FBC UPDATE	MS	11.05.20

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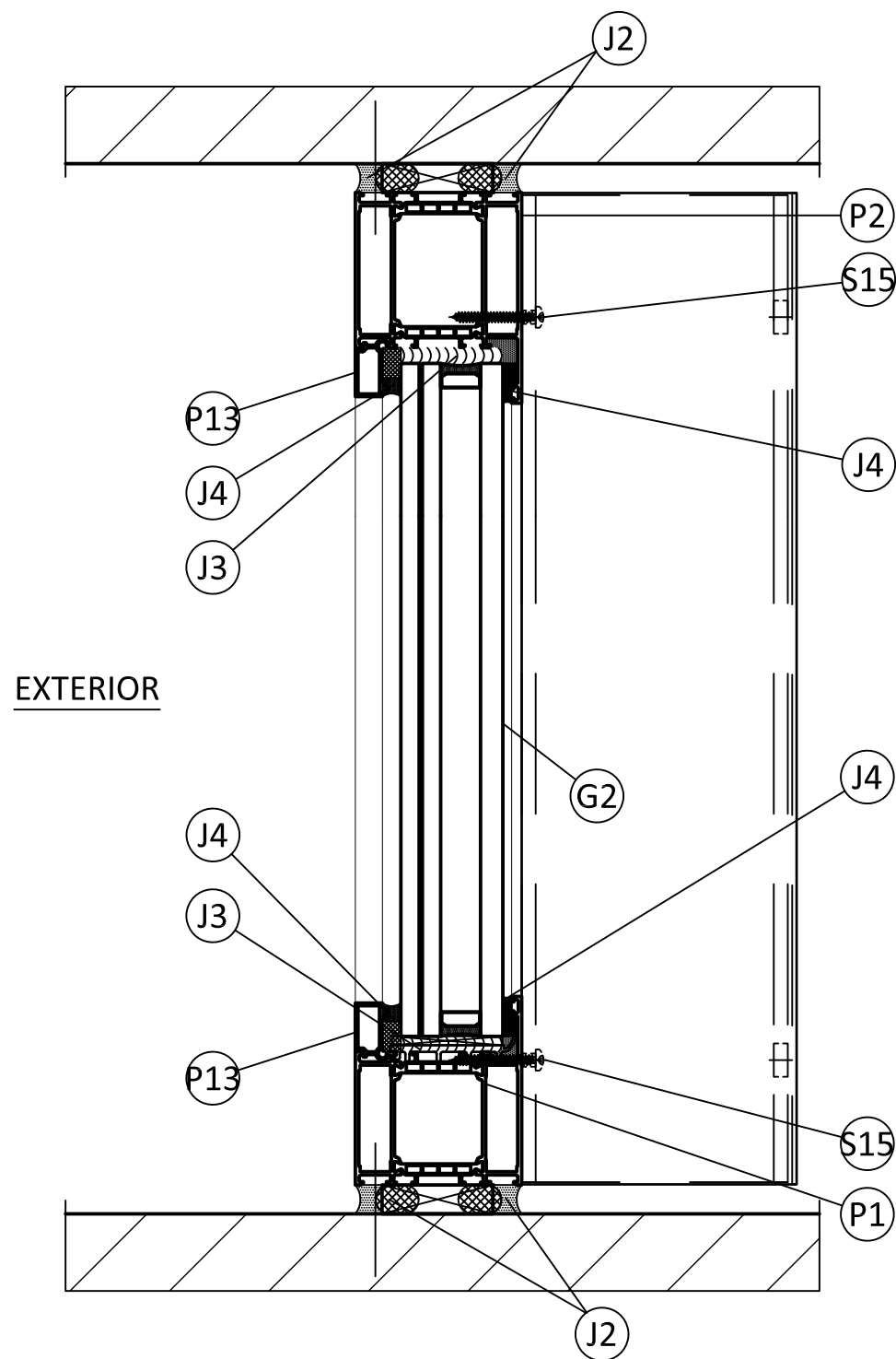
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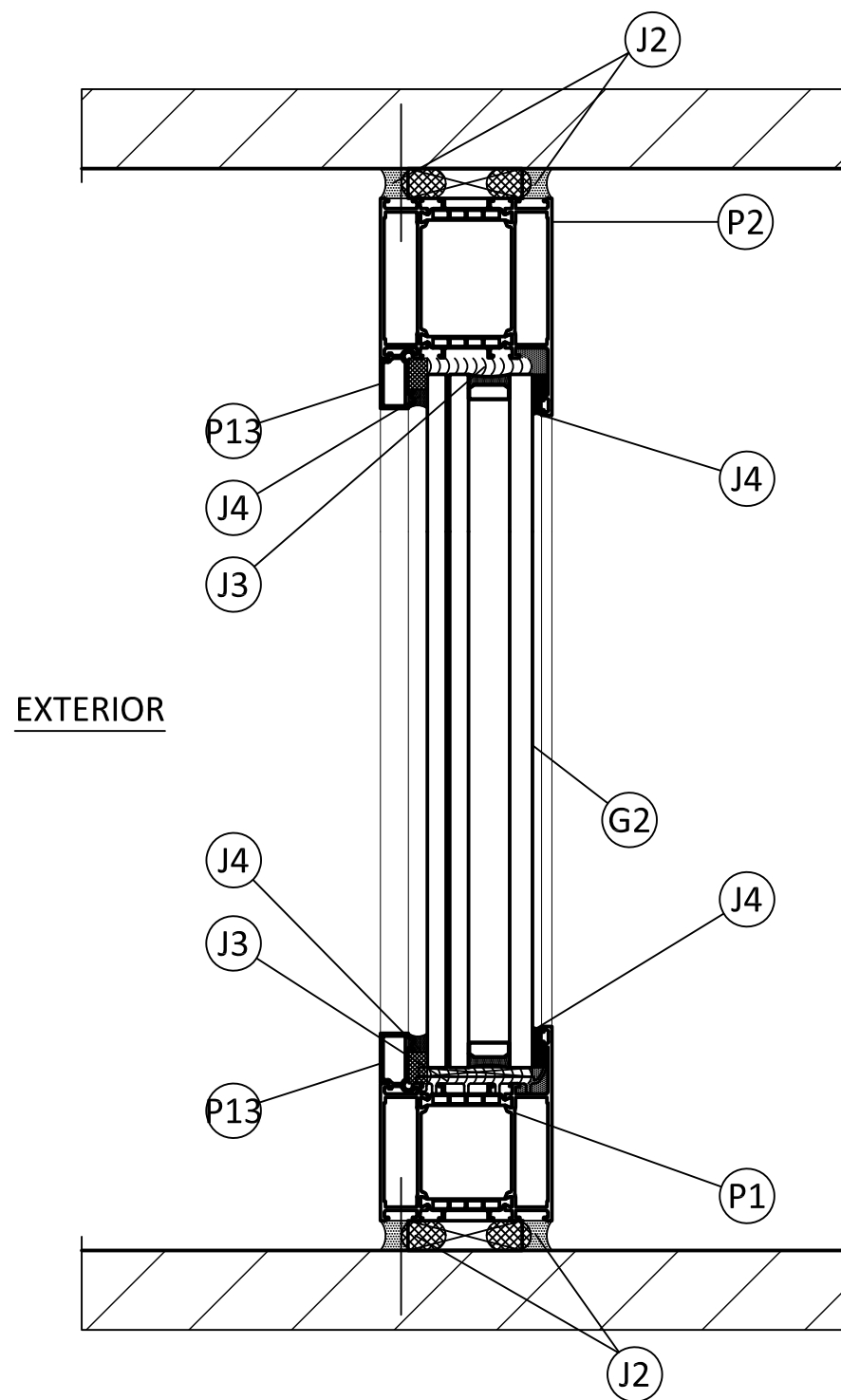
SCALE:
NTS

DWG. #:
ALT002

SHEET:
3



A
4 VERTICAL SECTION
THROUGH FRAME



B
4 VERTICAL SECTION
THROUGH FRAME

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TITLE: AIR-LUX SERIES 173
WINDOW WALL (HVHZ) (IMPACT)

VERTICAL SECTIONS

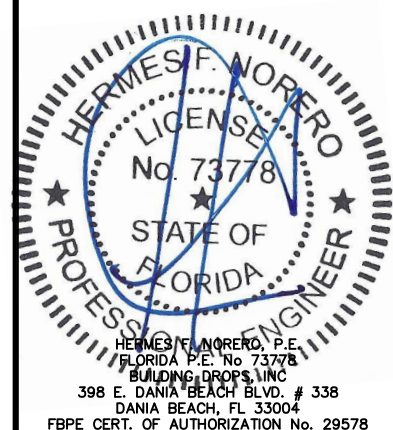
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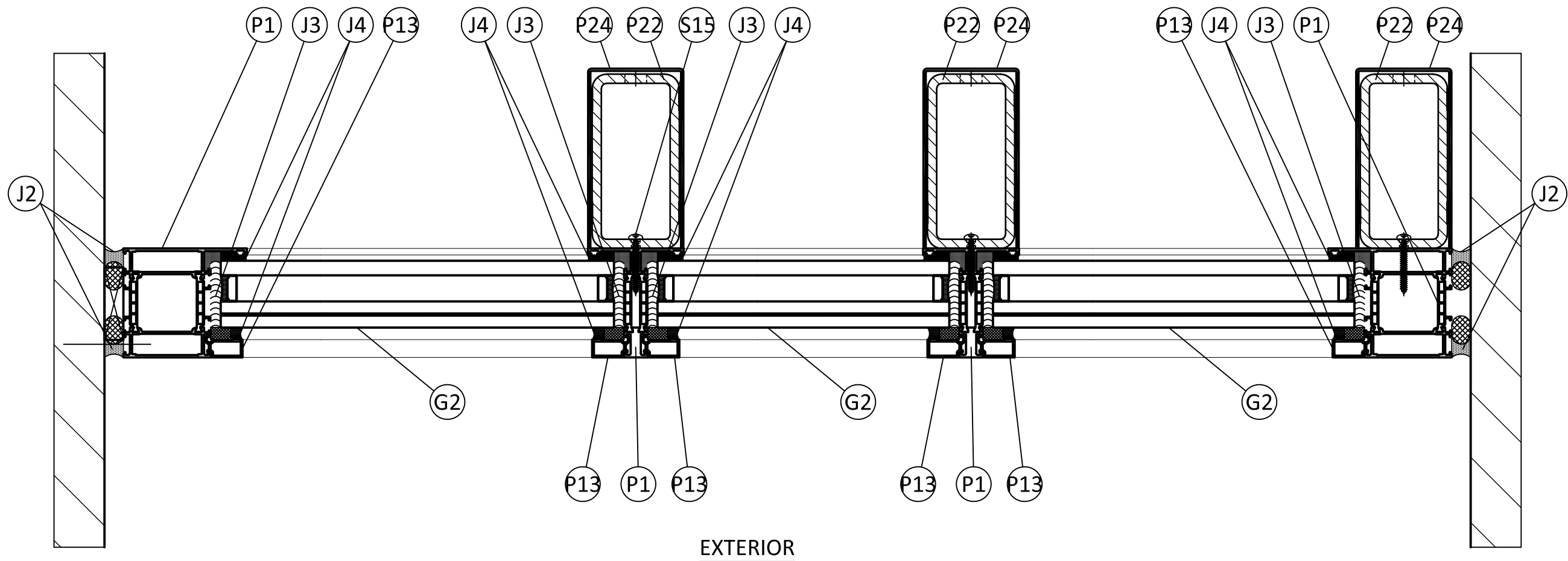
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SCALE: **NTS**

DWG. #: **ALT002**

SHEET:
4

OF 8



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

B
5 **HORIZONTAL SECTION**
THROUGH FRAME

C
5 **HORIZONTAL SECTION**
THROUGH FRAME - ANCHORED JAMB

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HORIZONTAL SECTIONS

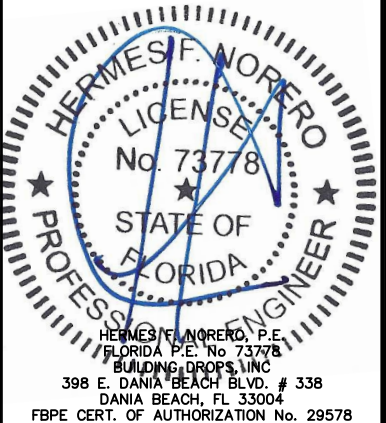
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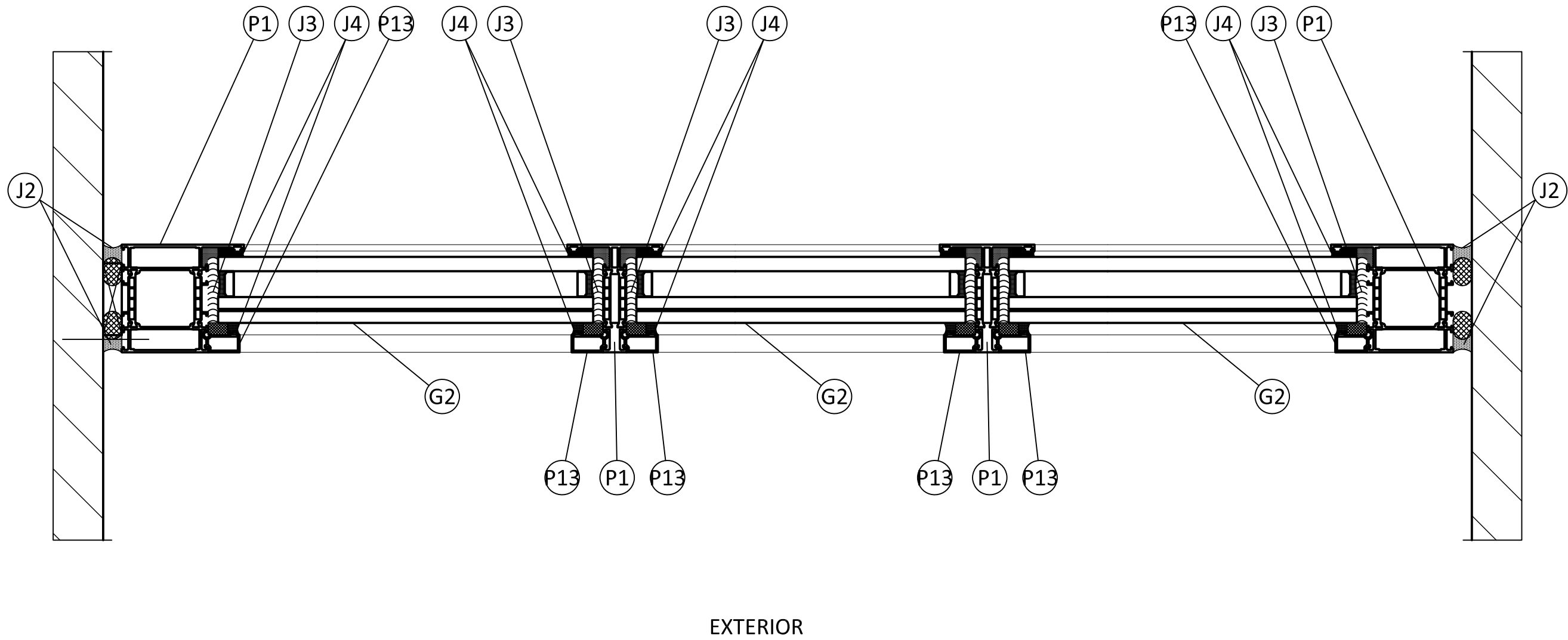


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SHEET:	5



EXTERIOR

A
6

HORIZONTAL SECTION THROUGH FRAME - FLOATING JAMB

B
6

HORIZONTAL SECTION THROUGH FRAME

C
6

HORIZONTAL SECTION THROUGH FRAME - FLOATING JAMB

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HORIZONTAL SECTIONS

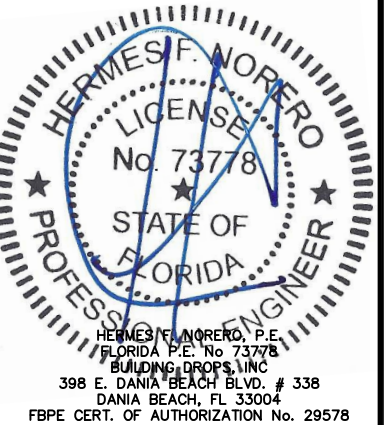
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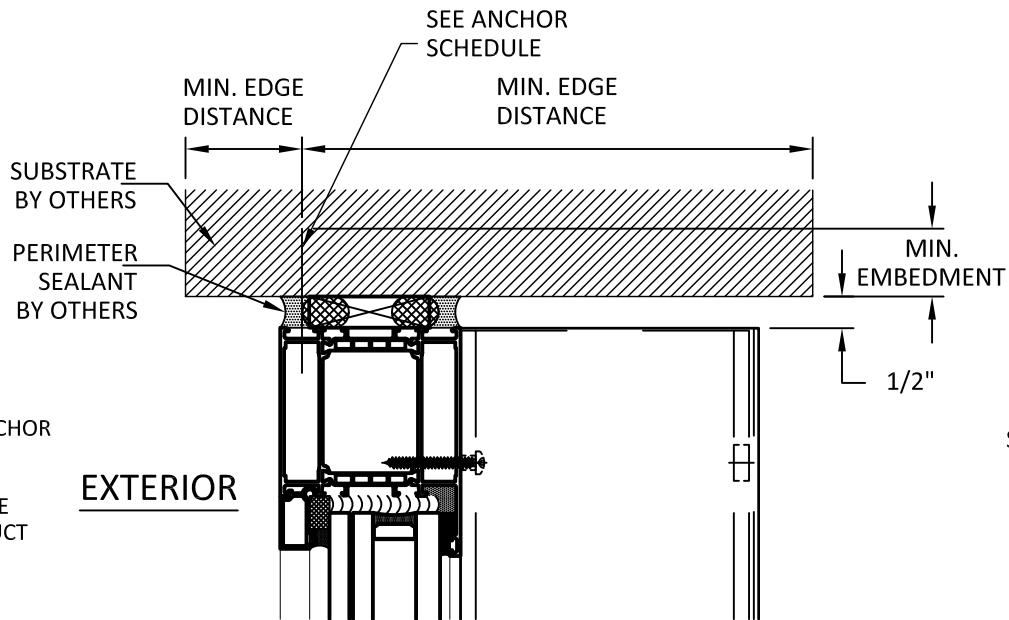
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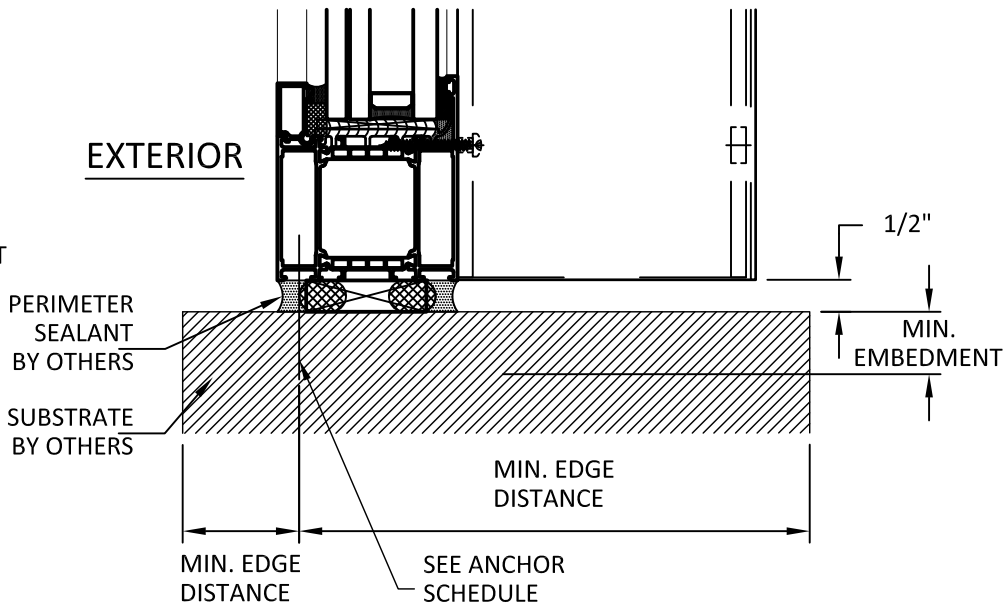
INSTALLATION NOTES:

- 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 ±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
7

HEAD ANCHOR DETAIL



C
7

SILL ANCHOR DETAIL

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

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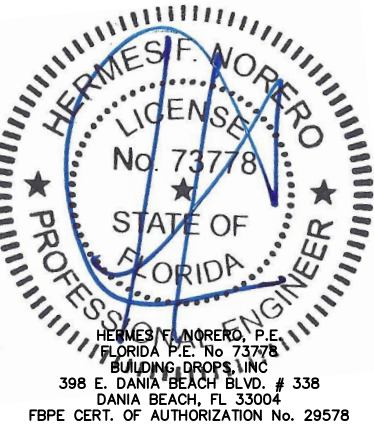
TITLE: AIR-LUX SERIES 173
WINDOW WALL (HVHZ) (IMPACT)
ANCHOR DETAILS, SCHEDULE &
INSTALLATION NOTES

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



REMARKS	BY	DATE
A. 7TH FBC UPDATE	MS	11.05.20

THE INSTALLATION DETAILS DESCRIBED HERE IN 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 #:
FL29500

DATE: 04.09.19

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

DWG. #: ALT002

SHEET:

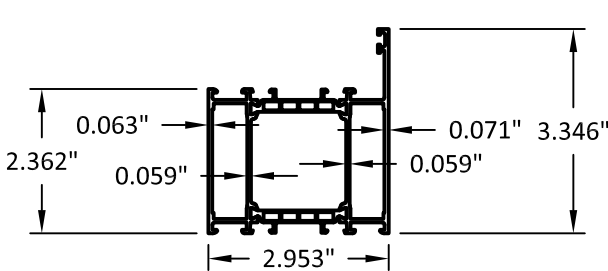
7

OF 8

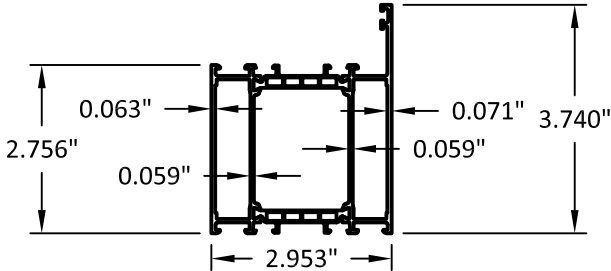
BILL OF MATERIALS (PROFILES)			
ITEM	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
P1	FRAME PROFILE	ALUMINUM 6060-T66	AIR-LUX
P2	FRAME PROFILE	ALUMINUM 6060-T66	AIR-LUX
P13	GLASS STRIP FIXED PANEL	ALUMINUM 6060-T66	AIR-LUX
P22	REINFORCING POSTS	STEEL	AIR-LUX
P24	COVER	ALUMINUM 5005	AIR-LUX

BILL OF MATERIALS (SCREWS)		
ITEM	DESCRIPTION	MATERIAL
S15	PAN HEAD, TORX, SEF-TAPPING SCREW	ISO14585 STAINLESS 3/16"x1 1/2" [4,2x38MM]

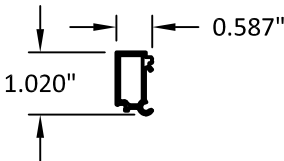
BILL OF MATERIALS (JOINTS)		
ITEM	DESCRIPTION	MATERIAL
J1	JOINT FRAME-STRUCTURE	LIQUID PLASTIC TRIFLEX PRO DETAIL
J2	JOINT FRAME-STRUCTURE	DOWSIL 791
J3	JOINT GLASS FRAME	DOWSIL 791
J4	PAN HEAD, SOCKET HEX DRV., MACHINE SCREW	DOWSIL 791



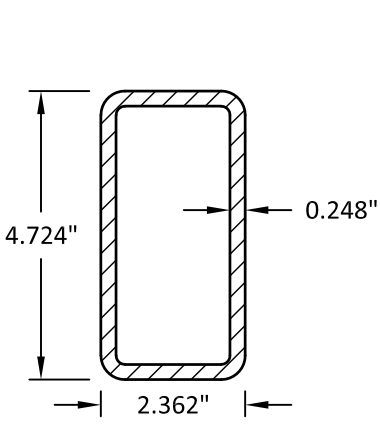
P1 FRAME PROFILE



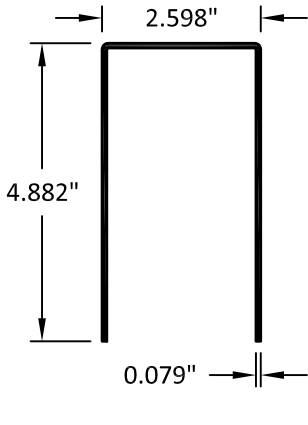
P2 FRAME PROFILE



P13 GLASS STRIP FIXED PANEL



P22 REINFORCING POSTS



P24 COVER

air-lux[®]

AIR-LUX TECHNIK AG
BREITSCHACHENSTRASSE 52
9032 ENGELBURG/SG
SWITZERLAND
PH: +41 71 272 2600 FX: +41 71 272 2601

TITLE:

AIR-LUX SERIES 173
WINDOW WALL (HVHZ) (IMPACT)
COMPONENTS AND
BILL OF MATERIALS
(SCREWS AND JOINTS)

PREPARED BY:

BUILDING DROPS, INC.

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DANIA BEACH, FL 33004
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REMARKS	BY	DATE
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HERMES F. NORERO

LICENSED PROFESSIONAL ENGINEER

No. 73778

STATE OF FLORIDA

HERMES F. NORERO, P.E.

FLORIDA P.E. No. 73778

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD. # 338

DANIA BEACH, FL 33004

FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

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DWG. BY:

RV

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

ALT002

SHEET:

8

OF 8