

PanoramAH! AMERICA, LLC

ah!38 FIXED WINDOW

(HVHZ)(IMPACT)

GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 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.
5.

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.
6.

APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
7.

WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
8.

GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.
9.

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

INSTALLATION NOTES:

1.

TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED ON SHEET 2.
2.

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1.000 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
3.

SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
5.

INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
6.

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.
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.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES AND INSTALLATION NOTES
2	ELEVATION & ANCHOR LAYOUT
3	DESIGN PRESSURE TABLE & GLAZING DETAIL
4	VERTICAL SECTION
5	HORIZONTAL SECTION
6	ANCHOR DETAILS & ANCHOR SCHEDULE

DESIGN PRESSURE RATING (PSF)				
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
O	SEE TABLE ON SHEET 2			LARGE & SMALL MISSILE IMPACT

(W)

(H)

(W)

(H)

NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM TESTED SQUARE FOOT AREA. ANCHOR SPACING SHALL NOT EXCEED THOSE SHOWN FOR LONG OR SHORT LEG OF UNIT, SEE TABLE ABOVE AND SHEET 2.



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ah!38 FIXED WINDOW
(HVHZ)(IMPACT)
GENERAL NOTES &
INSTALLATION NOTES

PREPARED BY:

BUILDING DROPS, INC.

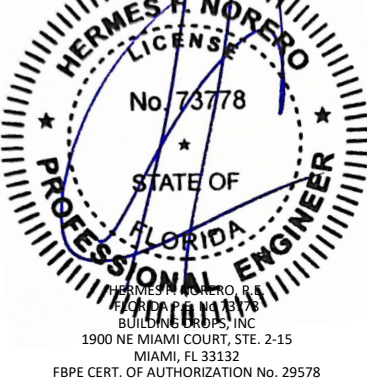
1900 NE MIAMI COURT, STE. 2-15
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BUILDING DROPS

REMARKS	BY	DATE

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Reason: I am approving this document
Date: 2024.02.23 12:04:09 -05'00'



FL #:

FL46510

DATE:

02.23.2024

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SH

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

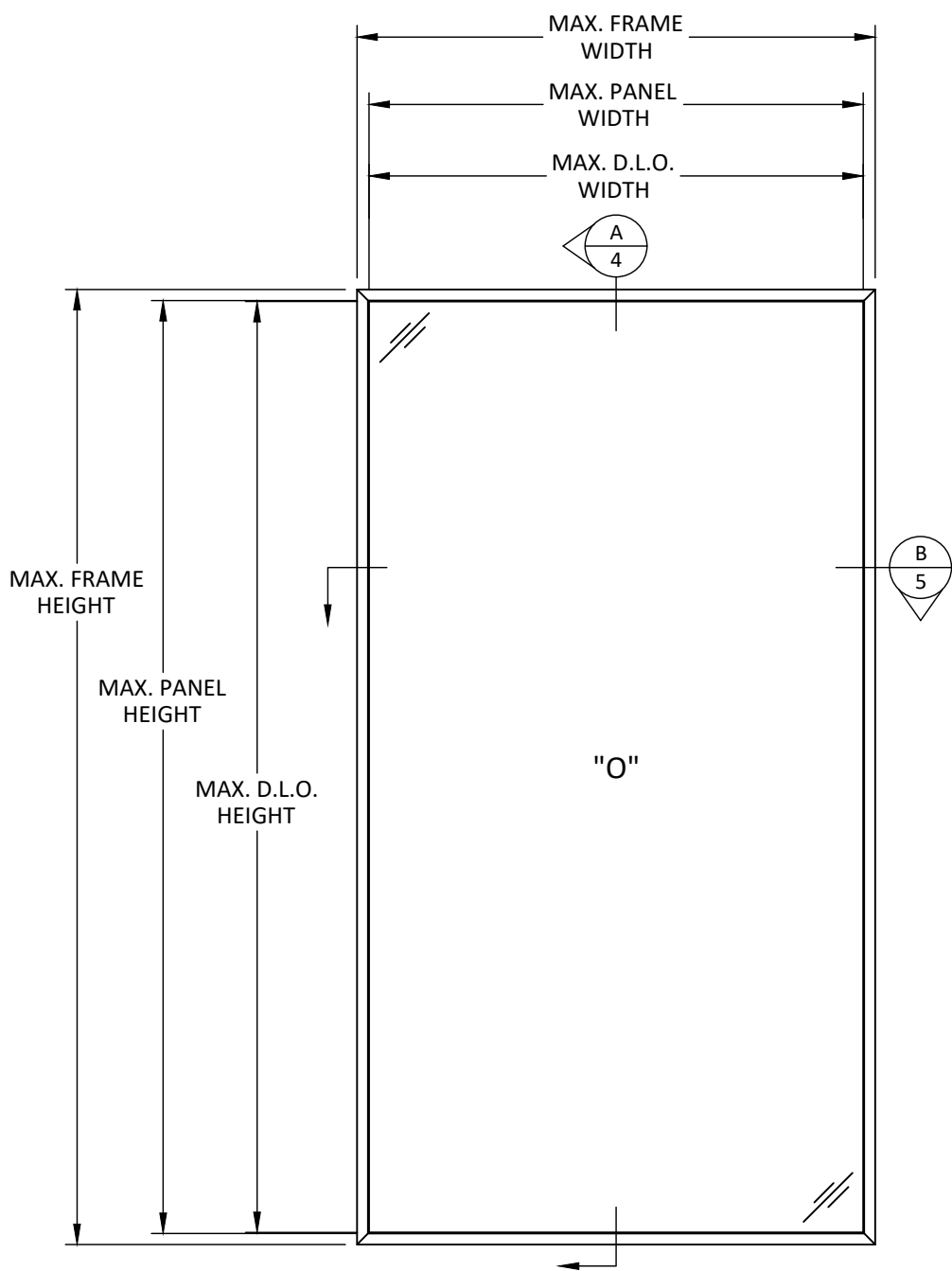
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SECTION:

1

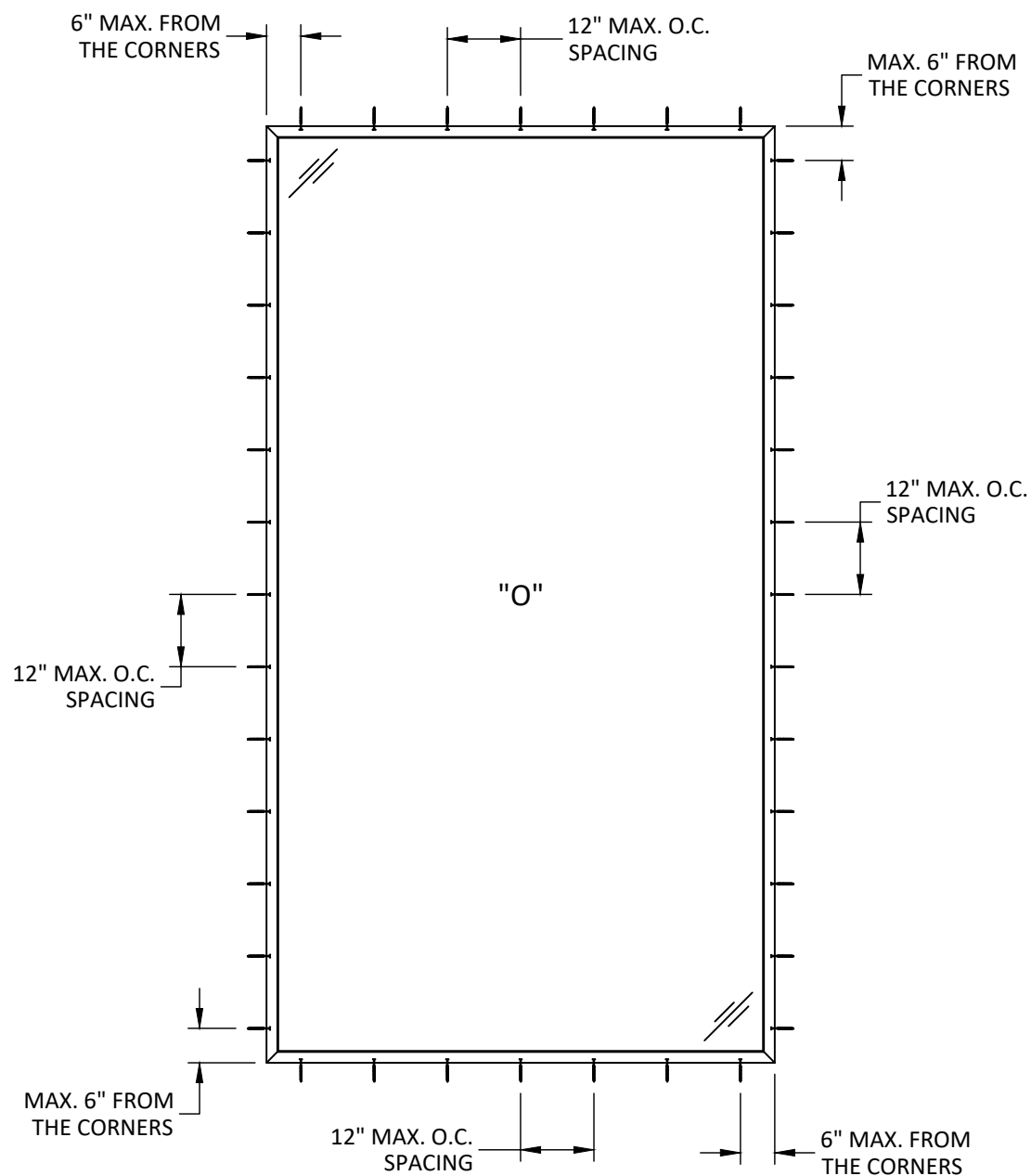
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ELEVATION
TYPICAL

D.L.O. HEIGHT = FRAME HEIGHT - 4.112"
D.L.O. WIDTH = FRAME WIDTH - 4.112"
PANEL HEIGHT = FRAME HEIGHT - 3.151"
PANEL WIDTH = FRAME WIDTH - 3.151"



ANCHOR LAYOUT
THROUGH FRAME INSTALLATION

TITLE: ah!38 FIXED WINDOW
(HVHZ)/(IMPACT)

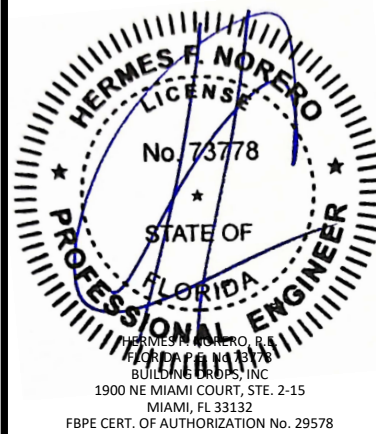
ELEVATION & ANCHOR LAYOUT

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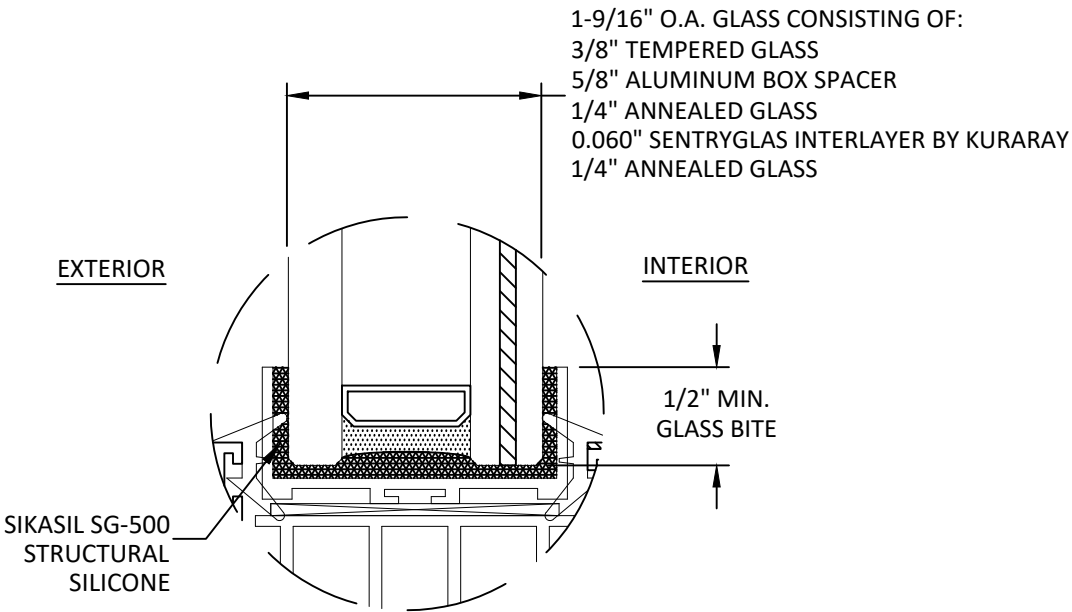


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SECTION:	2

DESIGN PRESSURE TABLE (PSF)			
UNIT DIMENSIONS		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
40	124	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
88		50.0	-55.0
94		47.3	-52.0
100		44.4	-48.9
106	130	41.9	-46.1
112		39.7	-43.6
40		50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
88	136	50.0	-55.0
94		47.3	-52.0
100		44.4	-48.9
106		41.9	-46.1
40		50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76	142	50.0	-55.0
82		50.0	-55.0
88		50.0	-55.0
94		47.3	-52.0
100		44.4	-48.9
40		50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0

DESIGN PRESSURE TABLE (PSF)			
UNIT DIMENSIONS		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
40	148	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
88		50.0	-55.0
94		47.3	-52.0
40	154	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
88		50.0	-55.0
94		47.3	-52.0
40	160	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
88		50.0	-55.0
40	163.75	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
88.875		50.0	-55.0
40	166	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0

DESIGN PRESSURE TABLE (PSF)			
UNIT DIMENSIONS		POS. (+)	NEG. (-)
FRAME WIDTH (IN.)	FRAME HEIGHT (IN.)		
40	172	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
40	178	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
40	184	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
40	190	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0
76		50.0	-55.0
82		50.0	-55.0
40	196	50.0	-55.0
46		50.0	-55.0
52		50.0	-55.0
58		50.0	-55.0
64		50.0	-55.0
70		50.0	-55.0



GLAZING DETAIL 1

- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 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.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.

TITLE: ah!38 FIXED WINDOW (HVHZ)/(IMPACT)

DESIGN PRESSURE TABLES & GLAZING DETAIL

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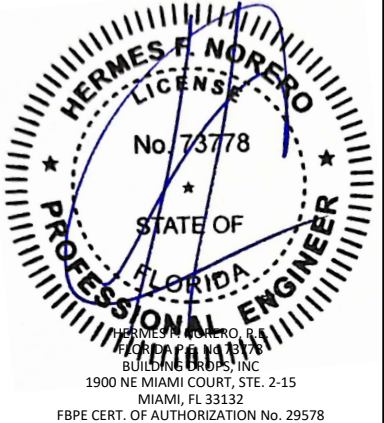
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REMARKS	BY	DATE

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BUILDING DROPS, INC.
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MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL46510

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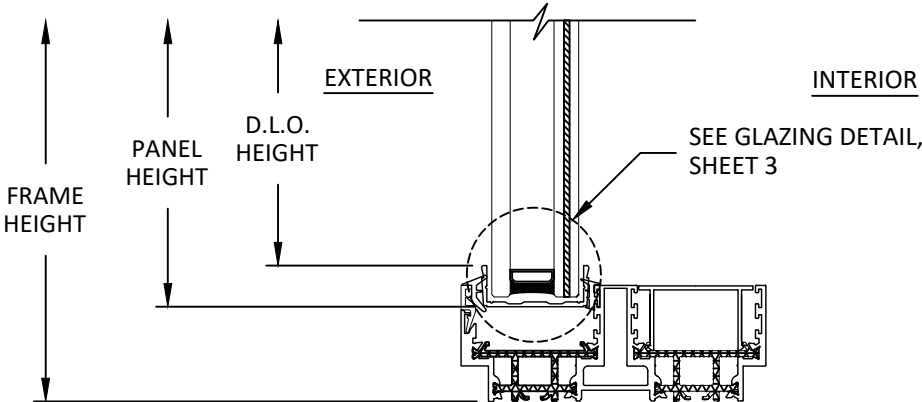
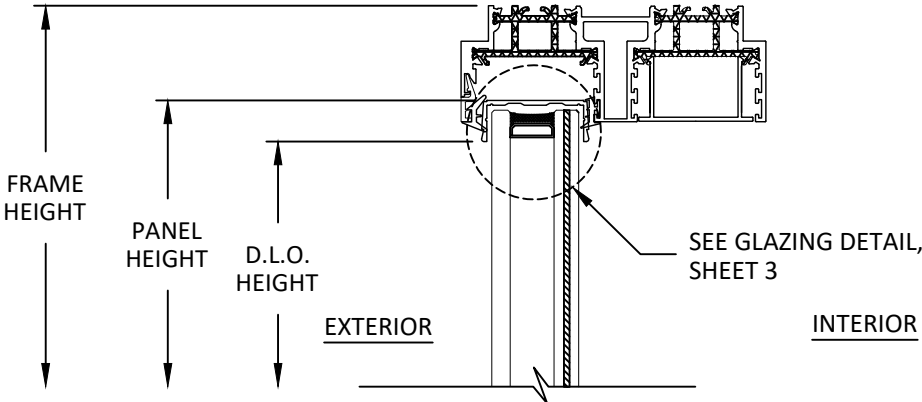
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CHK. BY: HFN

SCALE: NTS

DWG. #: PAN011

SECTION: 3

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A
4 **VERTICAL SECTION**
TYP. SECTION DETAIL



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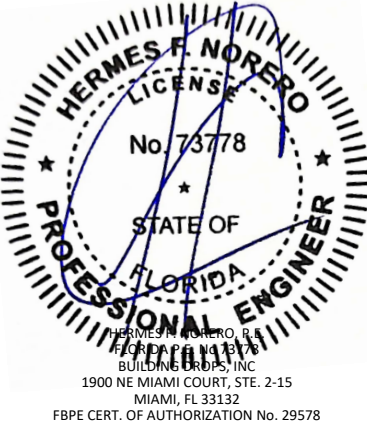
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(HVHZ)/(IMPACT)
VERTICAL SECTION

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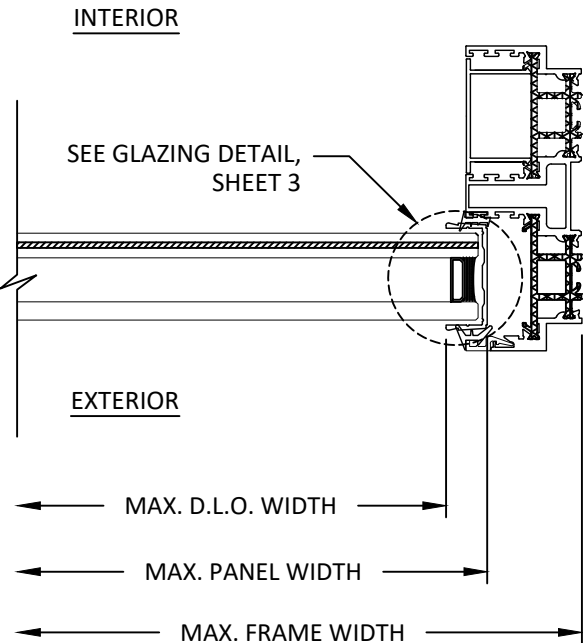
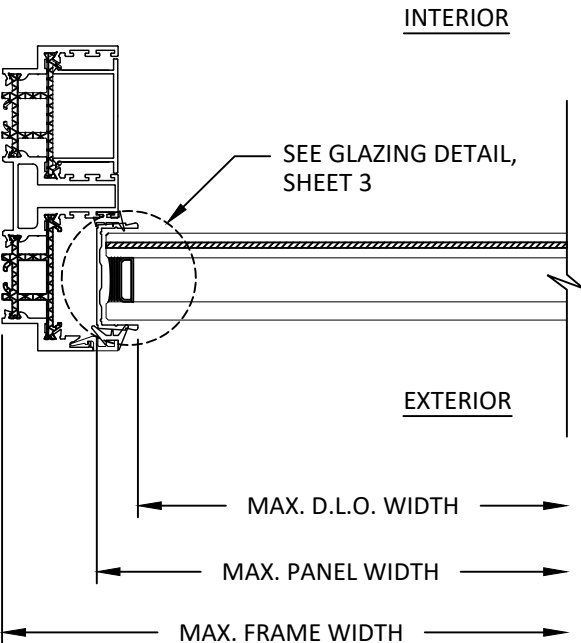
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SECTION:	4

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B
5 **HORIZONTAL SECTION**
TYP. SECTION DETAIL



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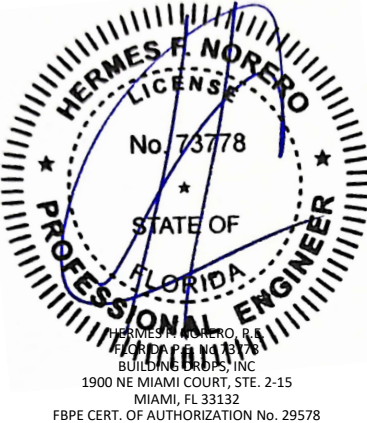
TITLE: **ah!38 FIXED WINDOW
(HVHZ)/(IMPACT)**
HORIZONTAL SECTION

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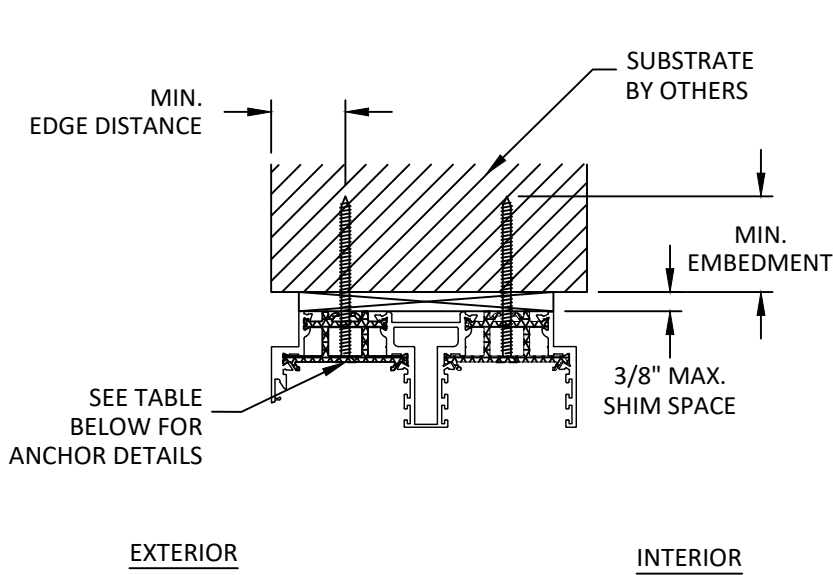
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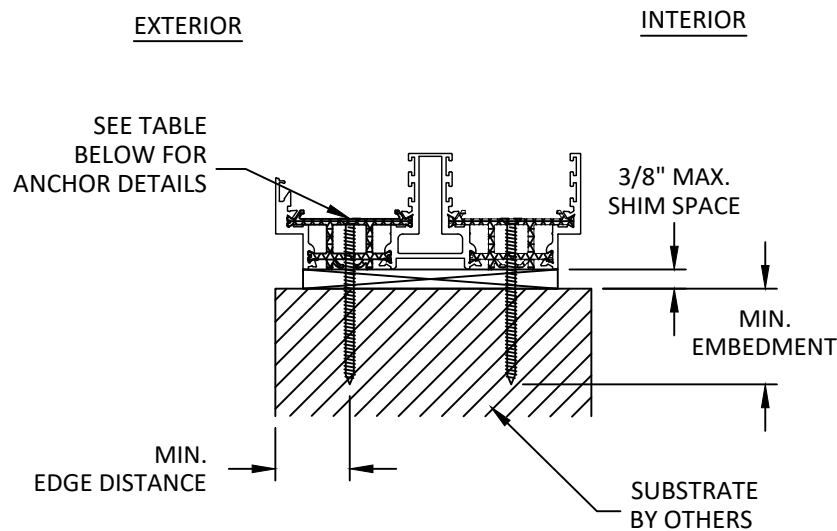


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DATE:	02.23.2024	
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SCALE:	NTS	
DWG. #:	PAN011	
SECTION:	5	

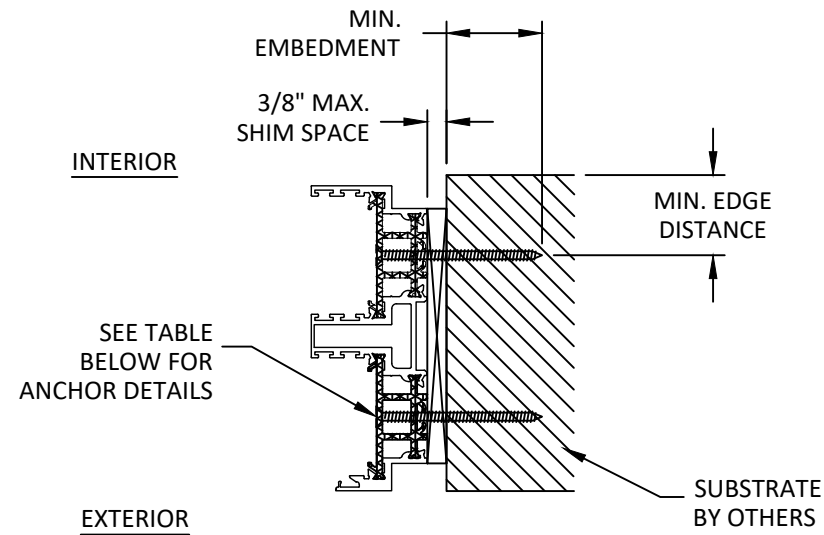
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A
6 VERTICAL SECTION
HEAD - THROUGH FRAME



B
6 VERTICAL SECTION
SILL - THROUGH FRAME



C
6 HORIZONTAL SECTION
JAMB - THROUGH FRAME

ANCHOR SCHEDULE					
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	SPACING
THROUGH FRAME	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"	SEE SHEET 2
	METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN PENETRATION BEYOND STRUCTURE	0.50"	
	CONCRETE: f'c=3000PSI	1/4" ITW TAPCON	1.50"	2.50"	
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"	

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ANCHOR DETAILS &
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SECTION:

6