

PLY GEM WINDOWS - PREMIUM MIRA IMPACT ALUMINUM CLAD

WOOD DIRECT SET FIXED WINDOW (IMPACT)

INSTALLATION NOTES:

1.

ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2.

THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3.

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4.

INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
5.

FOR INSTALLATION INTO 2X BUCK USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6.

FOR INSTALLATION INTO 2X BUCK USE 10d COMMON NAILS OR 11 GAUGE ROOFING NAILS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. RECOMMENDED NAIL HEAD DIAMETER TO BE AT LEAST 0.375".
7.

FOR INSTALLATION THROUGH STEEL STUD USE #8 SELF-TAPPING SCREW OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND STEEL STRUCTURE.
8.

FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/4 INCH MINIMUM EMBEDMENT.
9.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
10.

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.
11.

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.
12.

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.

GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D.

HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

E.

STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 20 GA. WALL THICKNESS.
13.

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

13.1

FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1711.1.1 (e.g., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).

13.2

CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1711.1.2 (e.g., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

GENERAL NOTES:

1.

THIS PRODUCT SHOWN HERIEN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC); EXCLUDING HVHZ AND HAS BEEN EVALUATED IN ACCORDANCE WITH THE FOLLOWING:

•

AAMA/WDMA/CSA 101/I.S.2/A440-17

•

ASTM E1886-19

•

ASTM E1996-20

•

AAMA 506-16
2.

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

2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4.

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5.

APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 3 OR LESS. AN IMPACT RESISTANT COVERING IS REQUIRED IN WIND ZONE 4.
6.

WINDOW FRAME MATERIAL: *RADIATA WOOD WITH ALUMINUM 6063-T5 CLADDING*
7.

IN ACCORDANCE WITH THE CURRENT FBC, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED.
8.

IN ACCORDANCE WITH THE CURRENT FBC, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES.
9.

GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAIL.
10.

DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X:

OPERABLE PANEL

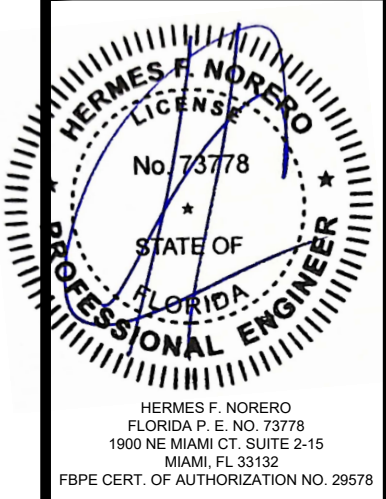
O:

FIXED PANEL

MAX. SIZE	GLAZING	DESIGN PRESSURE	MISSILE IMPACT RATING
49-3/8" X 76-9/16"	TYPE 1	+50/-50 PSF	LARGE & SMALL MISSILE IMPACT RATED
73-3/8" X 86-5/8"	TYPE 2	+50/-50 PSF	LARGE & SMALL MISSILE IMPACT RATED

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUTS
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS & GLAZING DETAIL

TITLE: PREMIUM MIRA DIRECT SET WINDOW IMPACT INSTALLATION & GENERAL NOTES	DATE					
	BY	SM	LMH	LMH	LMH	
	REVISION DESCRIPTION	FBC CODE CHANGE	7TH EDITION (2020) FBC	8TH EDITION (2023) FBC	UPDATED TO CURRENT FBC	
	NO.	B	C	D	E	
DATE: 02.06.12	DWN BY: GRN	CHK BY: HFN	SCALE: NTS			



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MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

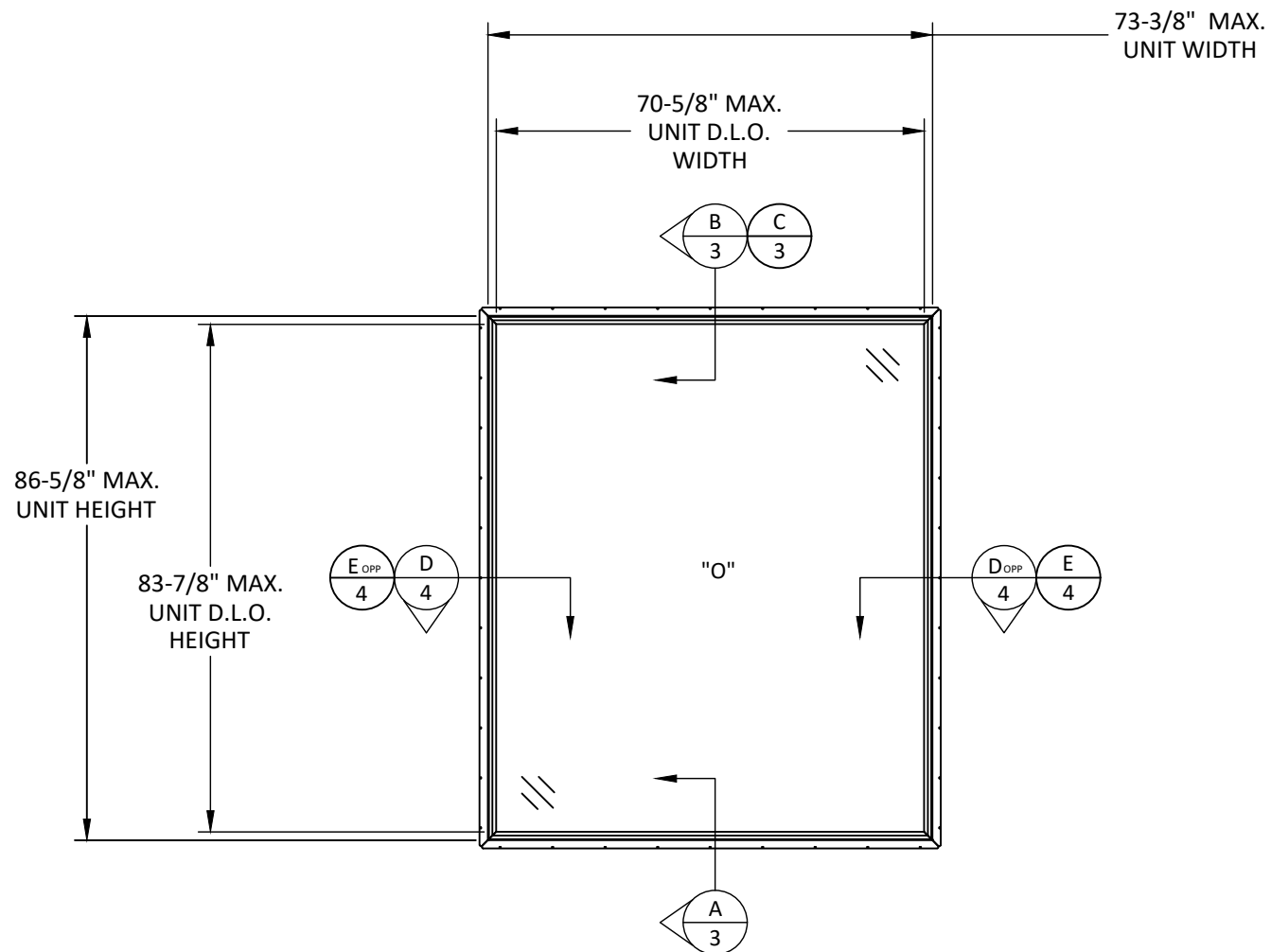
BD BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
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FL#: 15538

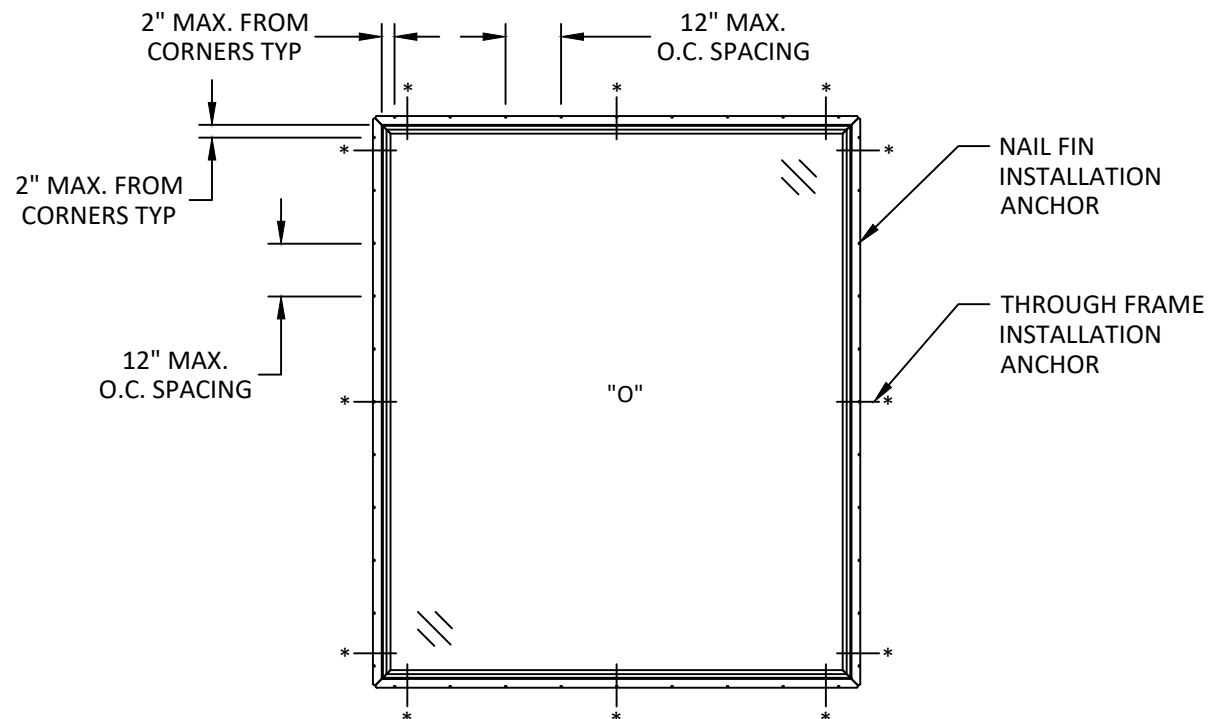
DWG #: PGW142

SHEET: 1 OF 4

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.09.18 15:38:22 -04'00'

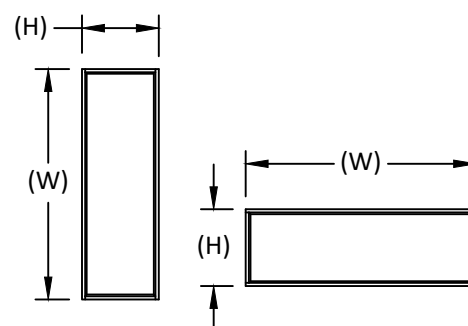


ELEVATION



**ANCHOR LAYOUT
FIN**

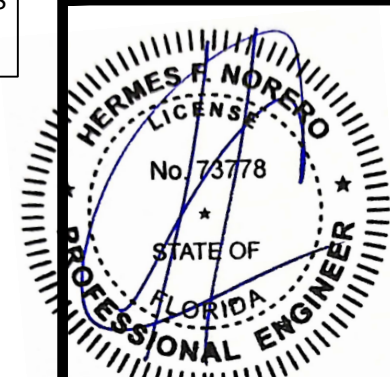
***NOTE:**
THROUGH FRAME ANCHORS REQUIRED
FOR UNITS LARGER THAN 49-3/8" X
76-9/16". SPACED AT 4" FROM CORNERS
AND AT MIDSPAN. SEE DETAIL C/3 FOR
ANCHOR PLACEMENT DETAILS.



NOTE:
WINDOW WIDTH (W) AND HEIGHT
(H) ARE INTERCHANGEABLE FOR ALL
SIZES SHOWN HEREIN NOT TO EXCEED
MAXIMUM QUALIFIED SQUARE FOOT
AREA.

TITLE: PREMIUM MIRA DIRECT SET WINDOW IMPACT ELEVATION & ANCHOR LAYOUTS	DATE	BY	REVISION DESCRIPTION	DATE
	NO.			
	B	SM	FBC CODE CHANGE	05.24.19
	C	LMH	7TH EDITION (2020) FBC	12.02.20
	D	LMH	8TH EDITION (2023) FBC	12.10.23
	E	LMH	UPDATED TO CURRENT FBC	08.20.26

DATE: 02.06.12	DWN BY: GRN	CHK BY: HFN	SCALE: NTS
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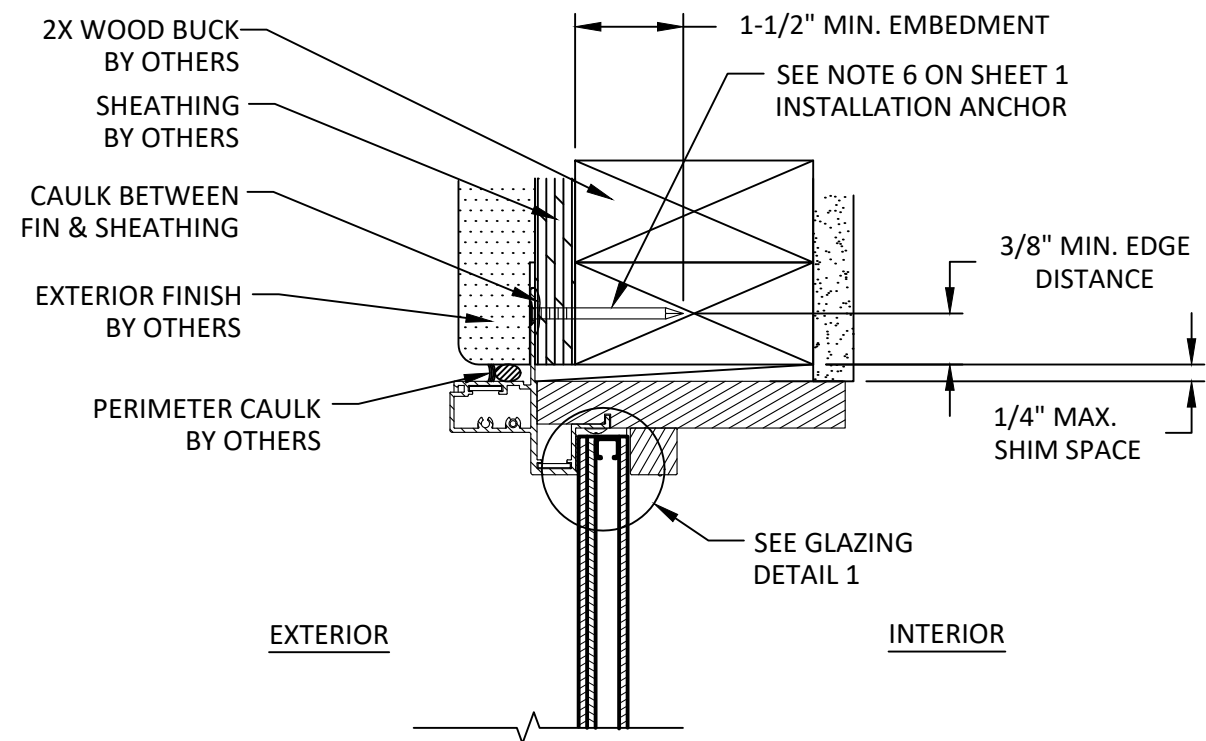
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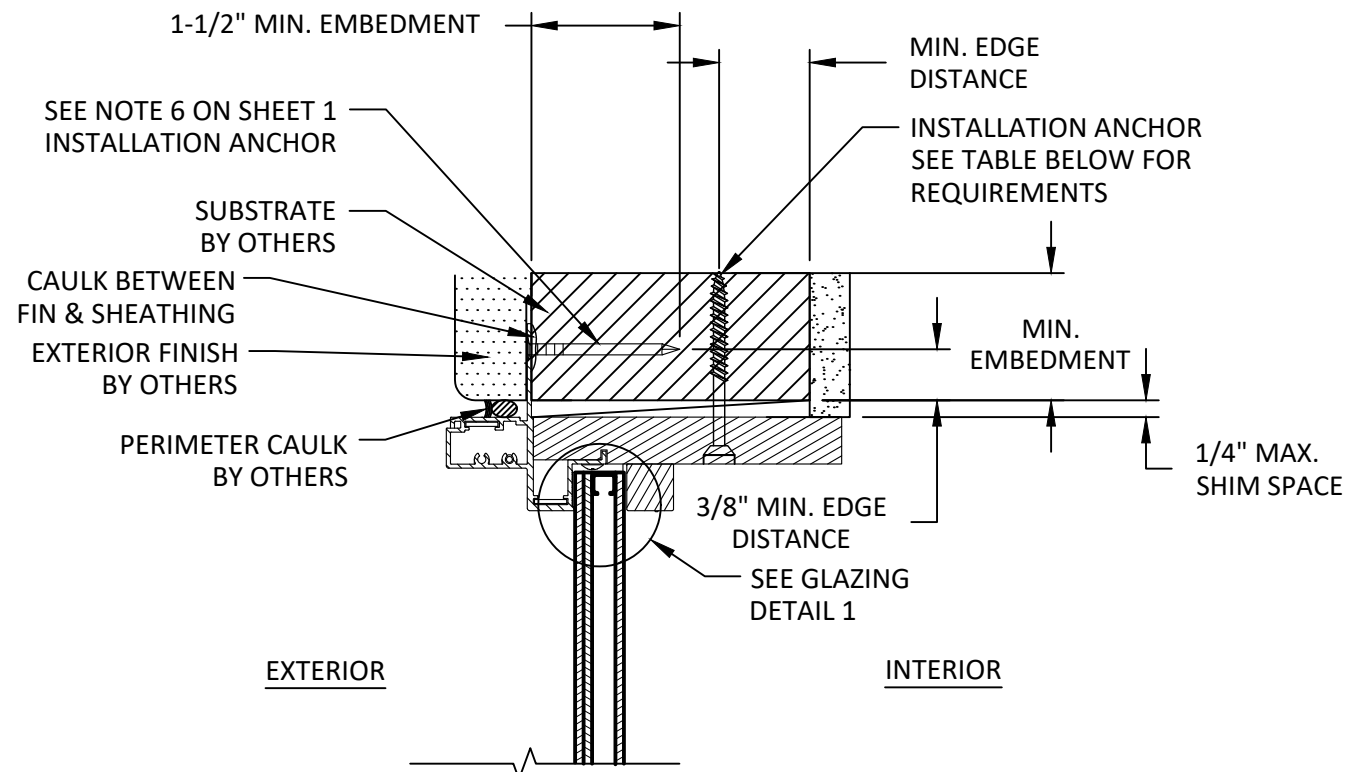
FL#: **15538**

DWG #: **PGW142**

SHEET: **2 OF 4**

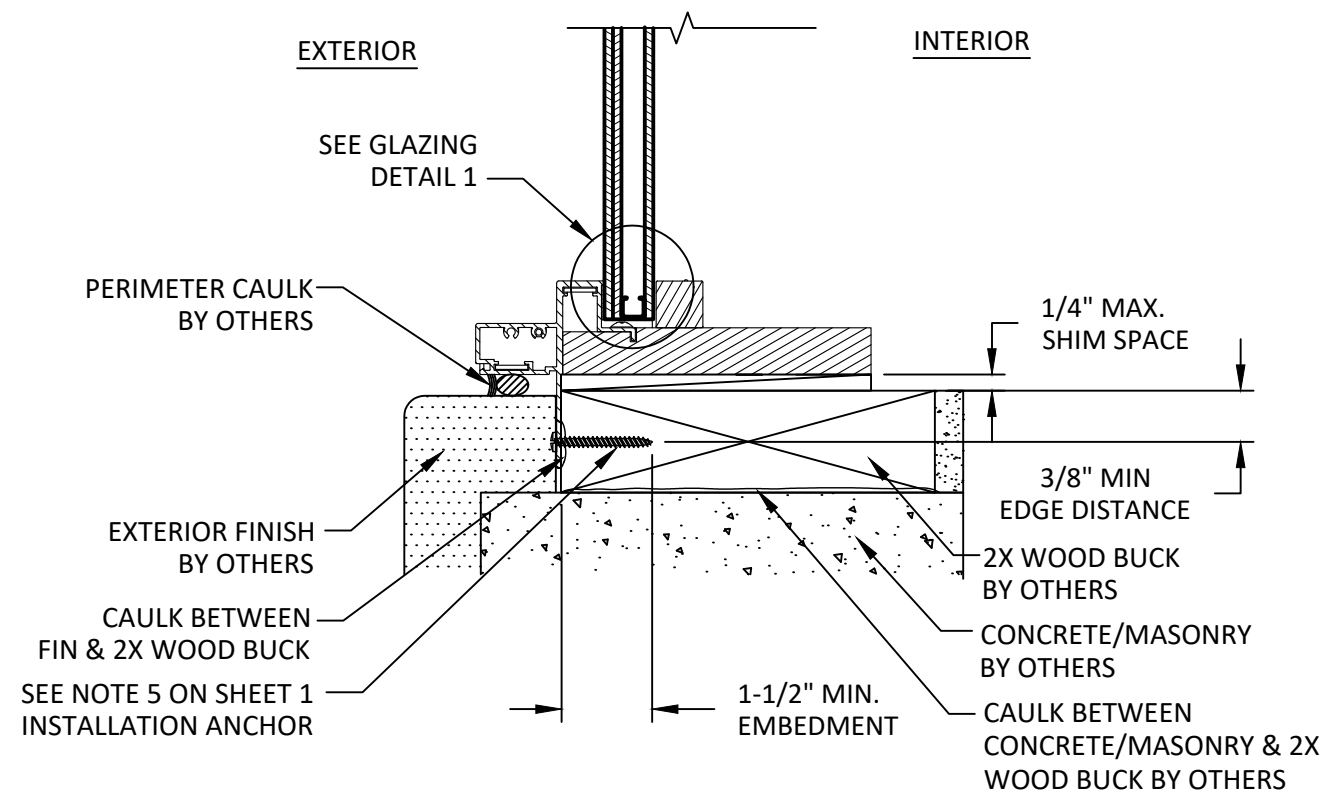


B
3 **VERTICAL SECTION**
2X WOOD FRAME - HEAD
FIN INSTALLATION



C
3 **VERTICAL SECTION**
THROUGH FRAME INSTALLATION REQUIRED
AT 4" FROM CORNERS AND MIDSPAN IN ADDITION
TO NAIL FIN ANCHORS FOR SIZES OVER 49-3/8" X 76-9/16"

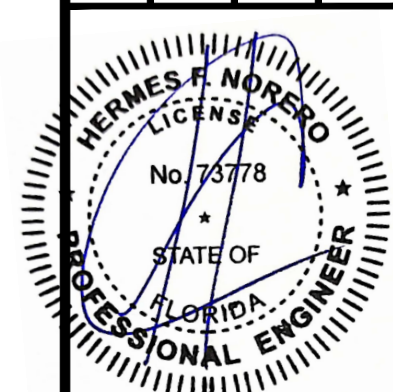
ANCHOR TYPE	MIN. EDGE DISTANCE	MIN. EMBEDMENT
#8 FH WOOD SCREW	3/4"	1-1/2"
#8 FH SELF-DRILLING SCREW	3/4"	THREE THREADS PENETRATION BEYOND STEEL WALL



A
3 **VERTICAL SECTION**
2X WOOD BUCK - SILL
FIN INSTALLATION

TITLE: PREMIUM MIRA DIRECT SET WINDOW IMPACT VERTICAL SECTIONS	DATE	BY	REVISION DESCRIPTION	NO.
	05.24.19	SM	FBC CODE CHANGE	B
	12.02.20	LMH	7TH EDITION (2020) FBC	C
	12.10.23	LMH	8TH EDITION (2023) FBC	D
	08.20.26	LMH	UPDATED TO CURRENT FBC	E

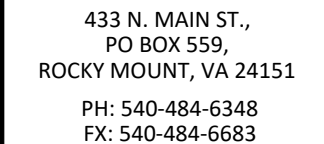
DATE: 02.06.12	DWN BY: GRN	CHK BY: HFN	SCALE: NTS
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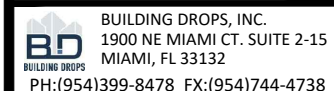
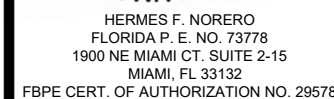
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DWG #: **PGW142**
SHEET: **3 OF 4**



- NOTES:**
- 1) GLASS THICKNESS AND TYPE COMPLIES WITH ASTM E1300 GLASS CHART REQUIREMENTS.
 - 2) ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC.
 - 3) ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH.24
 - 4) SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.



FL#: 15538

DWG #:
PGW142

SHEET: 4 OF 4