

# **PLY GEM WINDOWS** - *PREMIUM MIRA FIN FRAME ALUMINUM CLAD* *DOUBLE HUNG FIXED SASH IN FRAME TRANSOM WINDOW*

### INSTALLATION NOTES:

1. *ONE (1)* INSTALLATION ANCHORS 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. 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 SCREWS 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 C 476, 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 18 GA. WALL THICKNESS.

GENERAL NOTES:

1. THIS PRODUCT SHOWN HEREIN 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
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 REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
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 DETAILS.
10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
  - X: OPERABLE PANEL
  - O: FIXED PANEL

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| DESIGN PRESSURE RATING |                   |                 |                       |
|------------------------|-------------------|-----------------|-----------------------|
| GLAZE TYPE             | WINDOW SIZE       | DESIGN PRESSURE | MISSILE IMPACT RATING |
| 1                      | 73-3/8" X 29-3/8" | +80.0/-85.0 PSF | NON-IMPACT            |

 **Ply Gem®**  
WINDOWS & DOORS

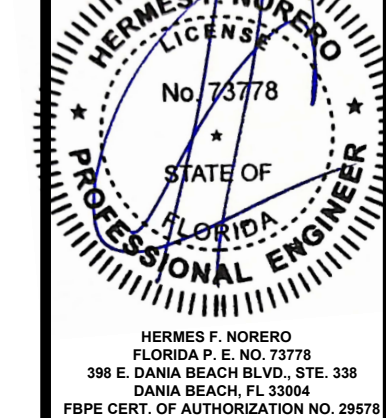
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|-------------------|--|--------------------------------------------------------------------------|------------------------|-----|----------|
| DATE:<br>02.06.12 |  | TITLE: PREMIUM MIRA SASH & FRAME TRANSOM<br>INSTALLATION & GENERAL NOTES |                        |     |          |
| DWN BY:<br>GRN    |  | NO.                                                                      | REVISION DESCRIPTION   | BY  | DATE     |
| CHK BY:<br>HFN    |  | A                                                                        | FBC 5TH EDITION UPDATE | SM  | 08.26.14 |
| SCALE:<br>NTS     |  | B                                                                        | FBC CODE CHANGE        | SM  | 05.24.19 |
|                   |  | C                                                                        | 7TH EDITION (2020) FBC | LMH | 12.02.20 |
|                   |  | D                                                                        | 8TH EDITION (2023) FBC | LMH | 12.10.23 |

Digitally signed by Hermes F. Norero, P.  
Reason: I am approving this document  
Date: 2023.12.22 16:06:48 -05'00'



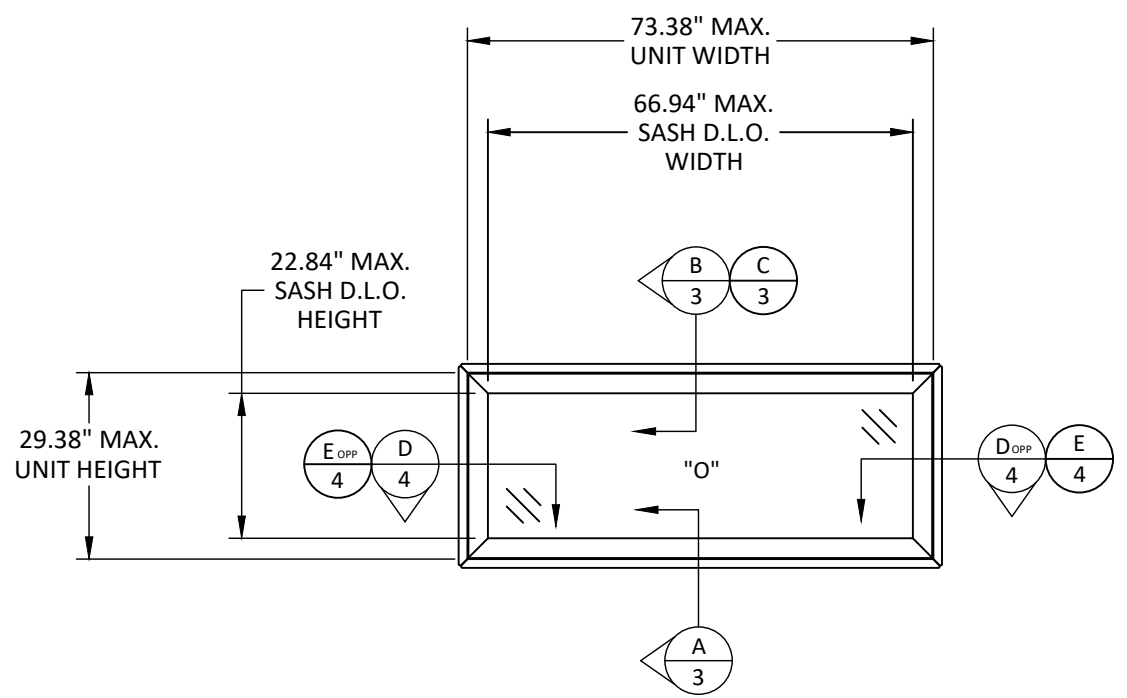
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FL#: 15538

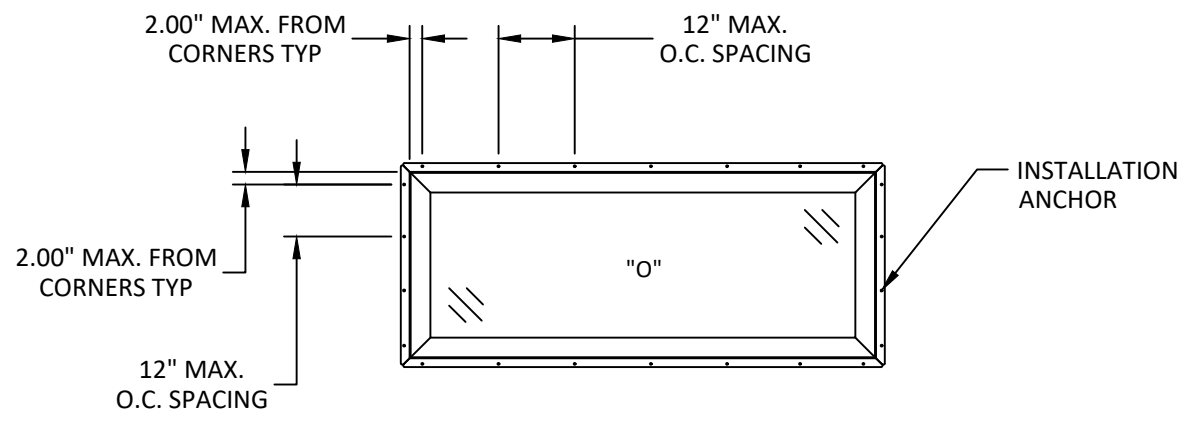
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**PGW145**

SHEET: 1 OF 4

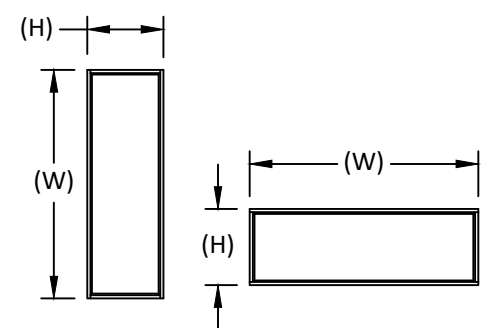
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**ELEVATION**



**ANCHOR LAYOUT  
FIN**



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

|                   |  |                                                                        |                        |     |          |
|-------------------|--|------------------------------------------------------------------------|------------------------|-----|----------|
| DATE:<br>02.06.12 |  | TITLE: PREMIUM MIRA SASH & FRAME TRANSOM<br>ELEVATIONS & ANCHOR LAYOUT |                        |     |          |
| DWN BY:<br>GRN    |  | NO.                                                                    | REVISION DESCRIPTION   | BY  | DATE     |
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|                   |  | D                                                                      | 8TH EDITION (2023) FBC | LMH | 12.10.23 |

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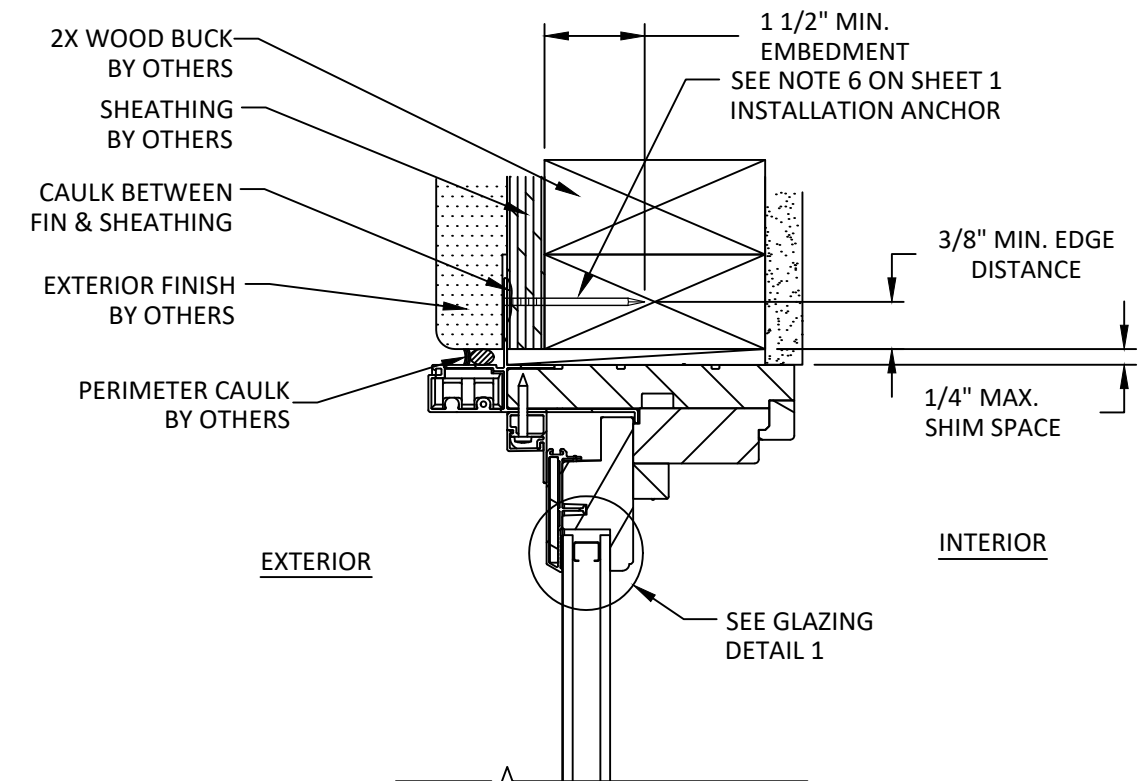
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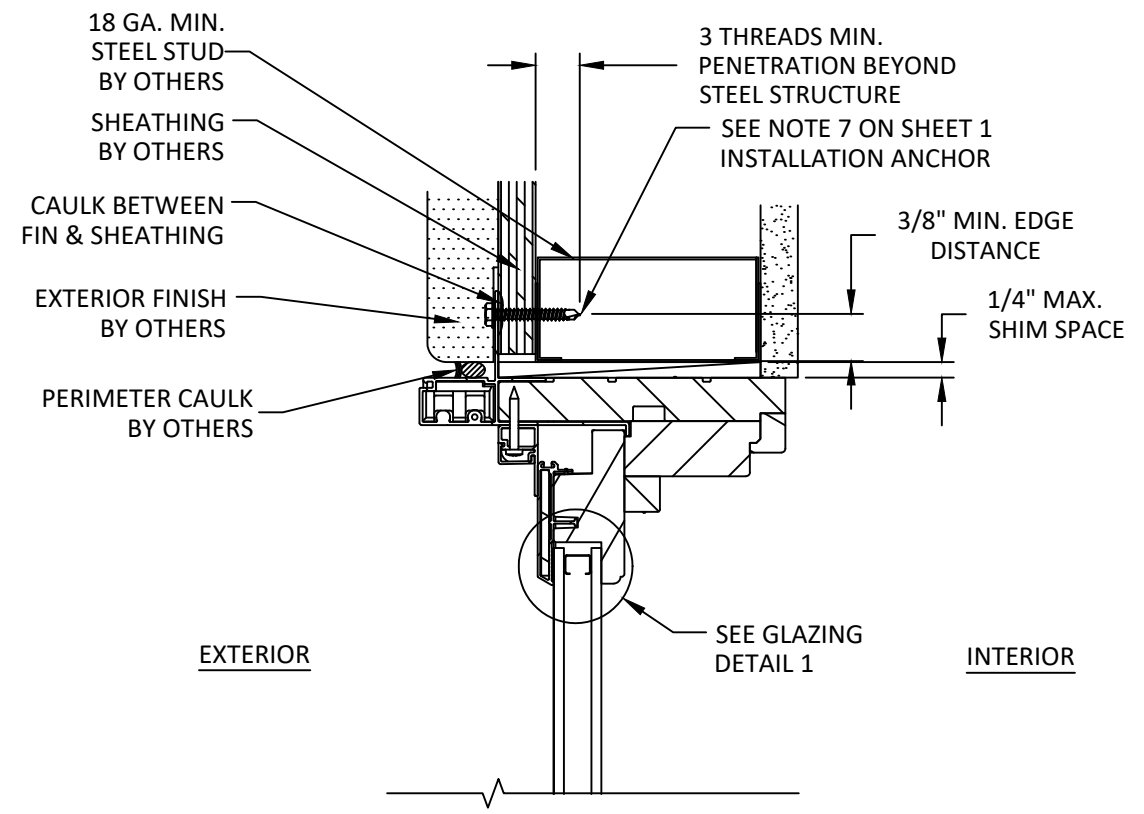
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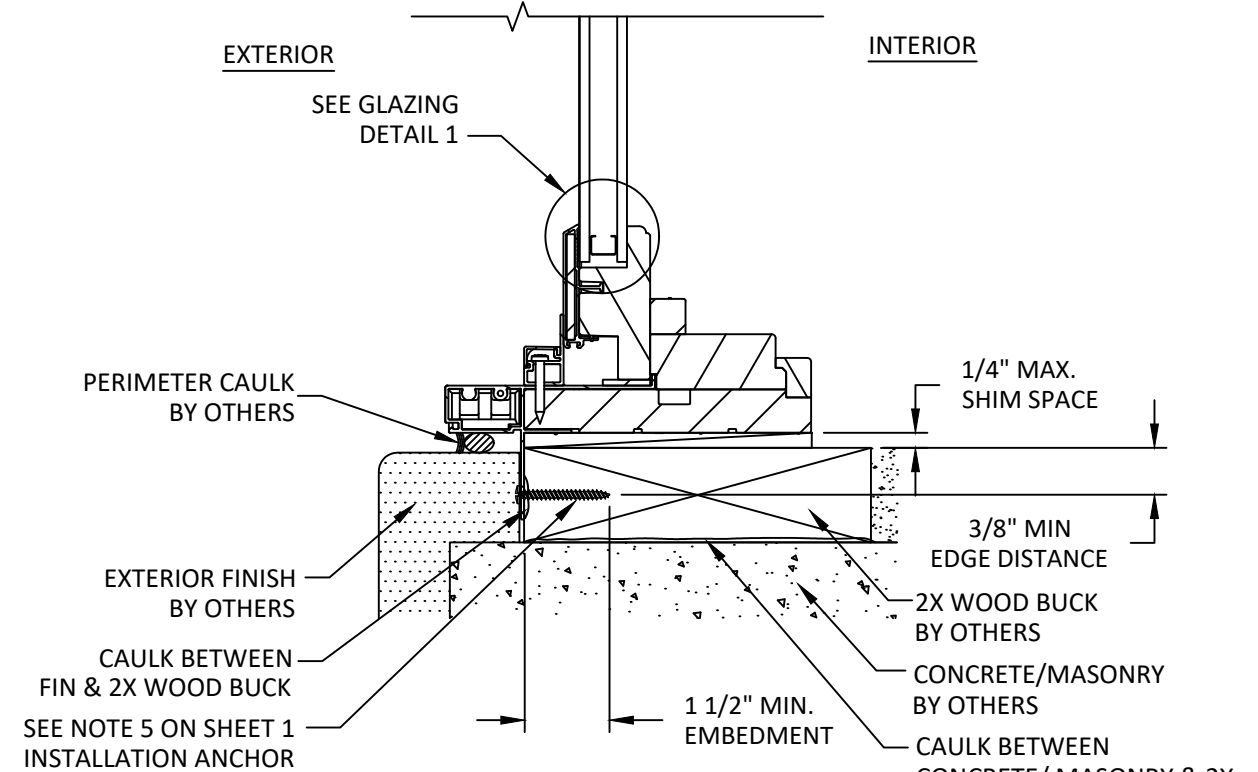
SHEET: **2 OF 4**



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



**C**  
**3** **VERTICAL SECTION**  
STEEL STUD SUBSTRATE - HEAD  
FIN INSTALLATION



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

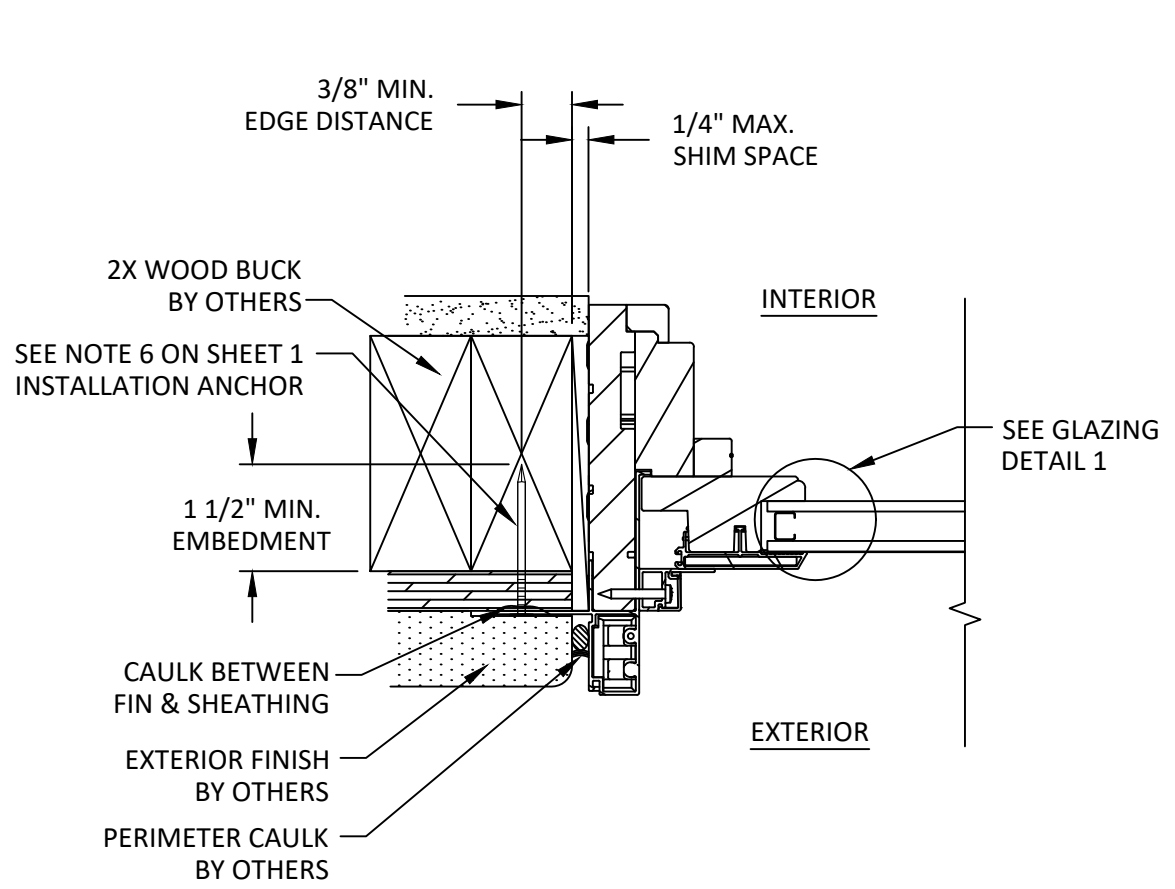
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|                                                               |  | 02.06.12 | GRN | FBC 5TH EDITION UPDATE | A   |
|                                                               |  | DWN BY:  | SM  | FBC CODE CHANGE        | B   |
|                                                               |  | CHK BY:  | SM  | 7TH EDITION (2020) FBC | C   |
|                                                               |  | SCALE:   | LMH | 8TH EDITION (2023) FBC | D   |
|                                                               |  | NTS      | LMH |                        |     |

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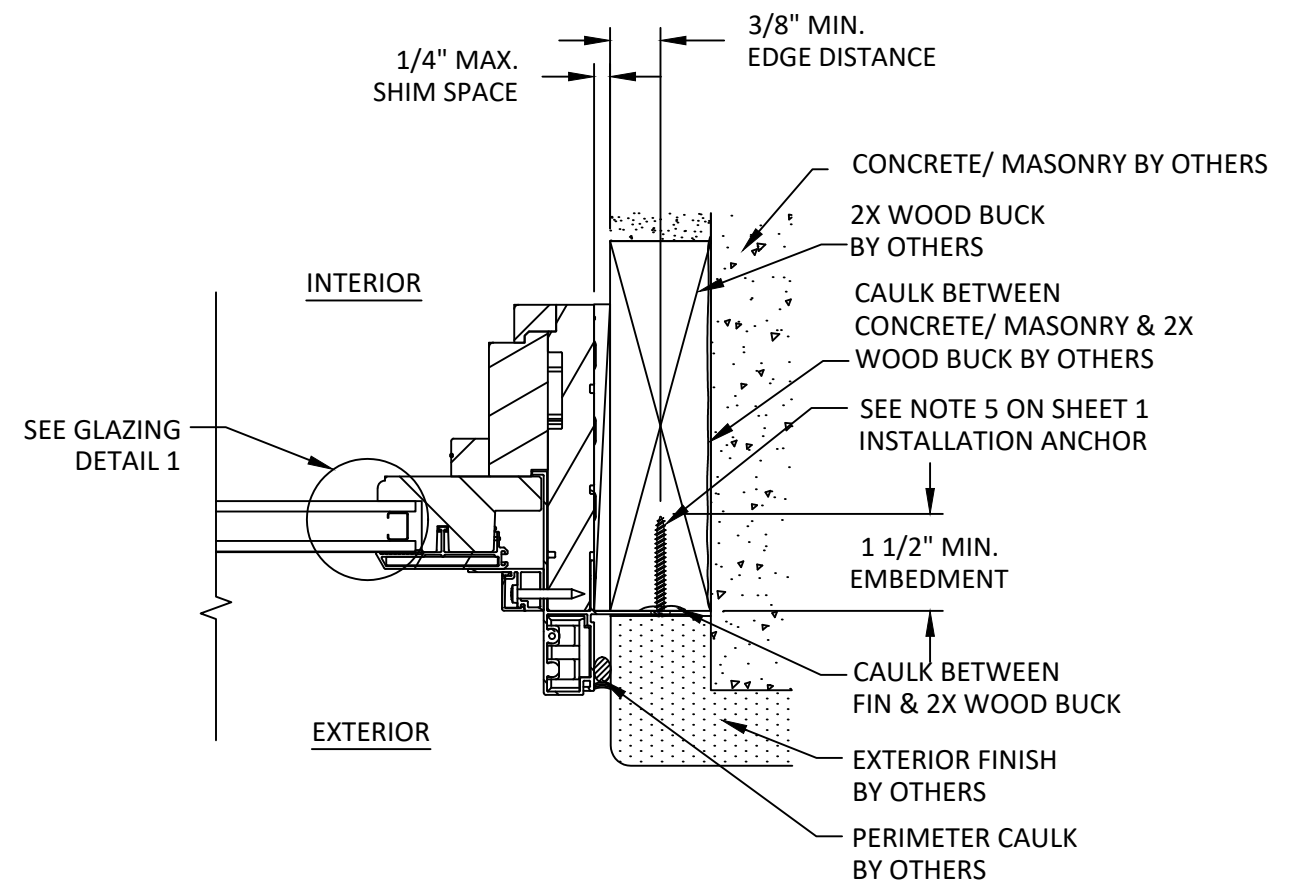
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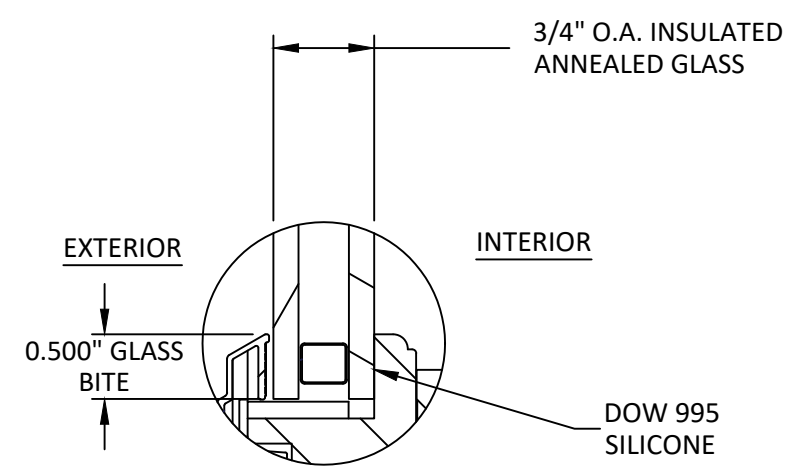
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DWG #: **PGW145**  
SHEET: **3 OF 4**



**D**  
**4** **HORIZONTAL SECTION**  
2X WOOD STUD SUBSTRATE - JAMB  
FIN INSTALLATION



**E**  
**4** **HORIZONTAL SECTION**  
2X WOOD BUCK - JAMB  
FIN INSTALLATION



**GLAZING DETAIL 1**

- NOTES:
- 1) GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E 1300 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.

| TITLE: PREMIUM MIRA SASH & FRAME TRANSOM<br>HORIZONTAL SECTIONS & GLAZING DETAIL | DATE | BY  | REVISION DESCRIPTION   |          |     |          |
|----------------------------------------------------------------------------------|------|-----|------------------------|----------|-----|----------|
|                                                                                  | NO.  |     |                        |          |     |          |
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|                   |                |                |               |
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