

PLY GEM WINDOWS - BUILDER SERIES 4701 FIR FIN & FLIR FLANGE

FRAME 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. **NAIL FIN OR FLANGE:** FOR INSTALLATION THROUGH 2X BUCK USE **#8 PAN HEAD WOOD SCREW** OF SUFFICIENT LENGTH TO ACHIEVE **1 1/2 INCH** MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
5. **NAIL FIN:** FOR INSTALLATION THROUGH 2X BUCK USE **11 GAUGE ROOFING NAILS OR 10D COMMON NAILS** OF SUFFICIENT LENGTH TO ACHIEVE 2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. RECOMMENDED NAIL HEAD DIAMETER TO BE AT LEAST 0.375".
6. **NAIL FIN OR FLANGE:** FOR INSTALLATION THROUGH STEEL STUD USE **#8 SELF-TAPPING SCREW** OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND STEEL STRUCTURE.
7. **FLANGE:** MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8. FOR INSTALLATION THROUGH 1X BUCK INTO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE **3/16 INCH ITW TAPCONS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT INTO CONCRETE/MASONRY.
9. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
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. 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 2000 PSI.

E. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS. (20 GUAGE).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, EXCLUDING HVHZ.

• AAMA 506-16

• AAMA/WDMA/CSA 101/I.S.2/A440-17

• ASTM E1886-19

• ASTM E1996-20
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, IN WIND ZONE 4.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS.
8. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: *OPERABLE PANEL*

O: *FIXED PANEL*

SIZE CHART				
OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT			
53"	74"	R-PG40	+50/-57 PSF	WIND ZONE 3 MISSILE LEVEL D

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Part of the Cornerstone Building Brands Family

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TITLE: BUILDER SERIES 4701 FIR/FLIR FRAME FIXED WINDOW		INSTALLATION & GENERAL NOTES		DATE	
REVISION DESCRIPTION		BY	DATE		
		RV	11.03.14		
		CD	07.01.19		
		LMH	11.09.20		
		LMH	12.10.23		

DATE:	02.22.12
DWN BY:	GRN
CHK BY:	HFN
SCALE:	NTS

Digitally signed by Hermes F. Moreno, P.E.
Reason: I am approving this document
Date: 2023.02.22 16:30:12 -0500



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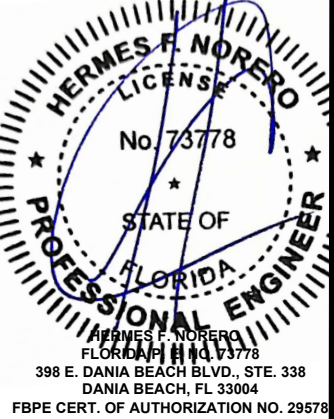
FL#: 15301

DWG #: PGW135

SHEET: 1 OF 6

TITLE: BUILDER SERIES 4701 FIR/FLIR FRAME FIXED WINDOW ELEVATION & ANCHOR LAYOUT			
NO.	REVISION DESCRIPTION	BY	DATE
A	FBC 5TH EDITION UPDATE	RV	11.03.14
B	COMBINED FIR & FLIR	CD	07.01.19
C	7TH EDITION (2020) FBC	LMH	11.09.20
D	8TH EDITION (2023) FBC	LMH	12.10.23

DATE:	02.22.12
DWN BY:	GRN
CHK BY:	HFN
SCALE:	NTS

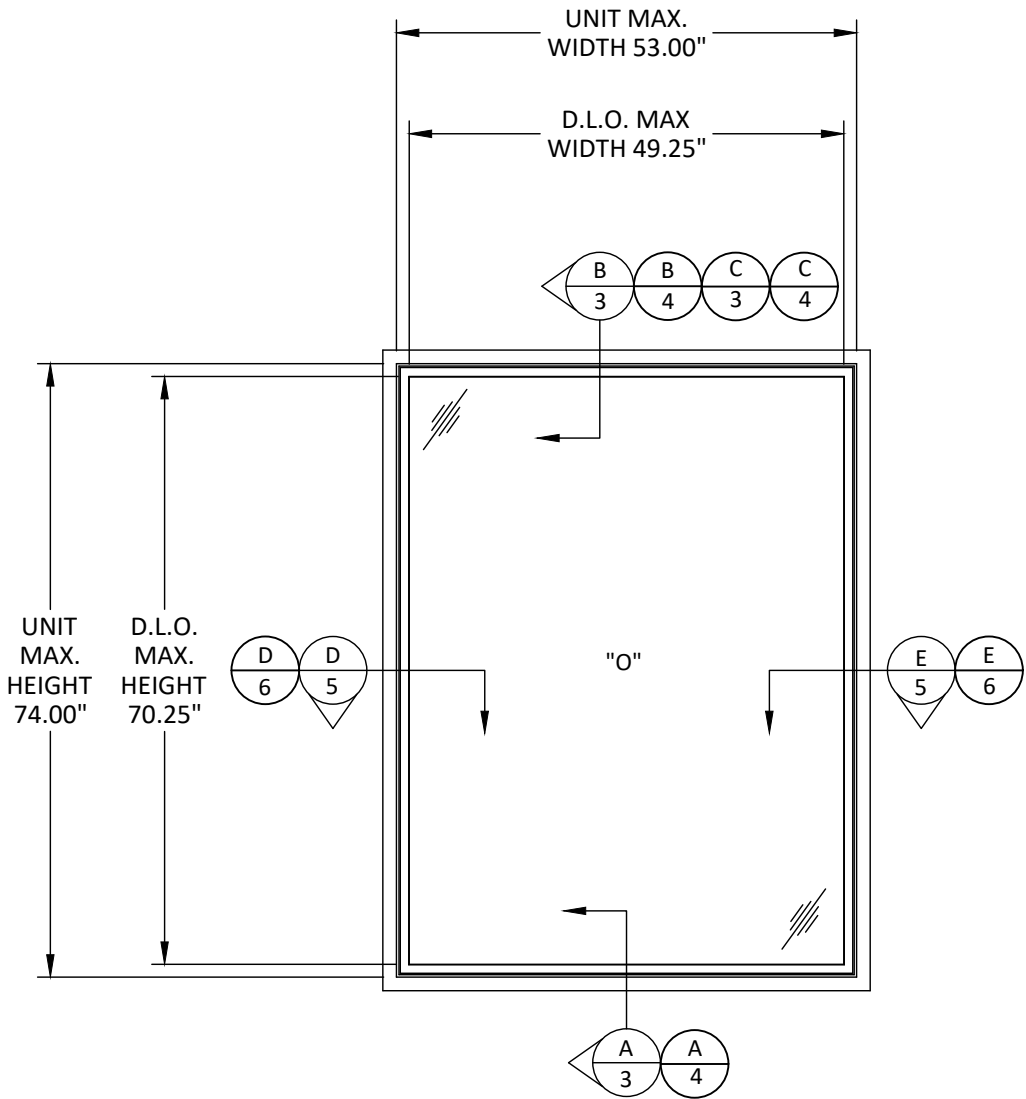


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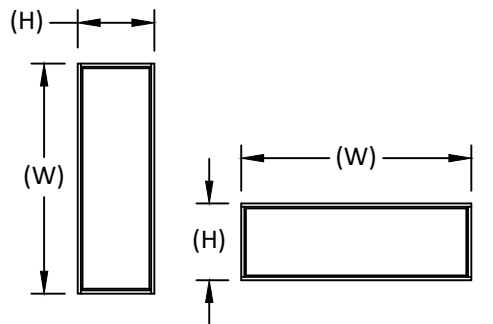
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DWG #: **PGW135**

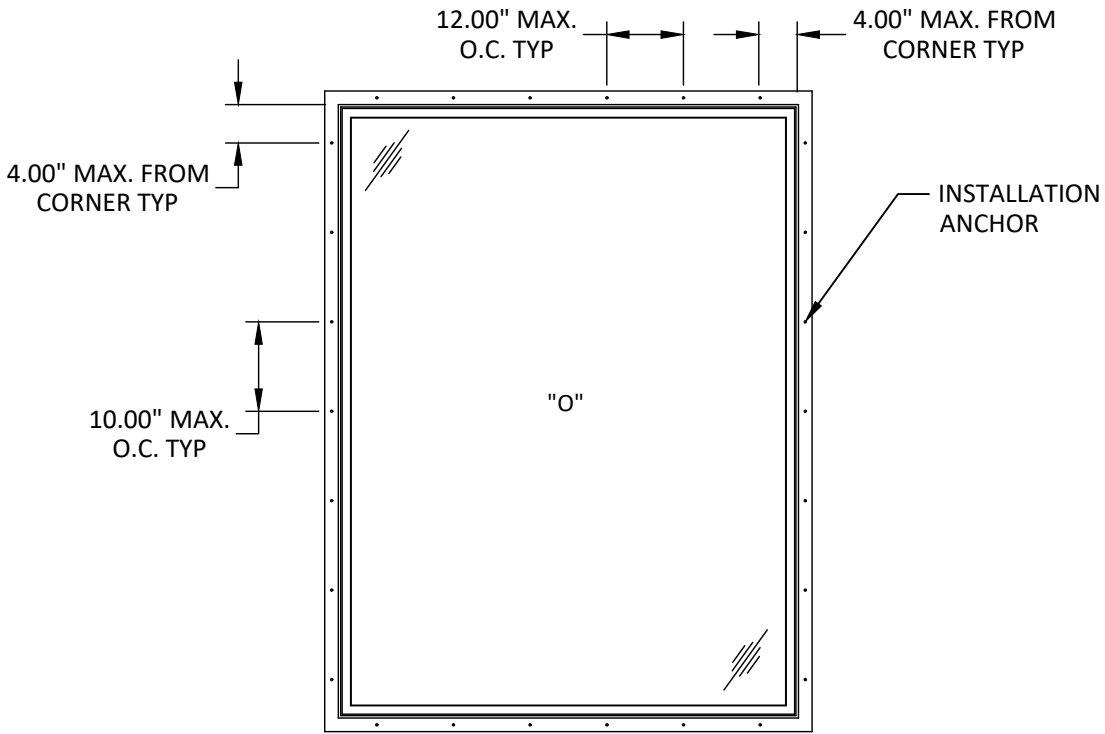
SHEET: **2 OF 6**



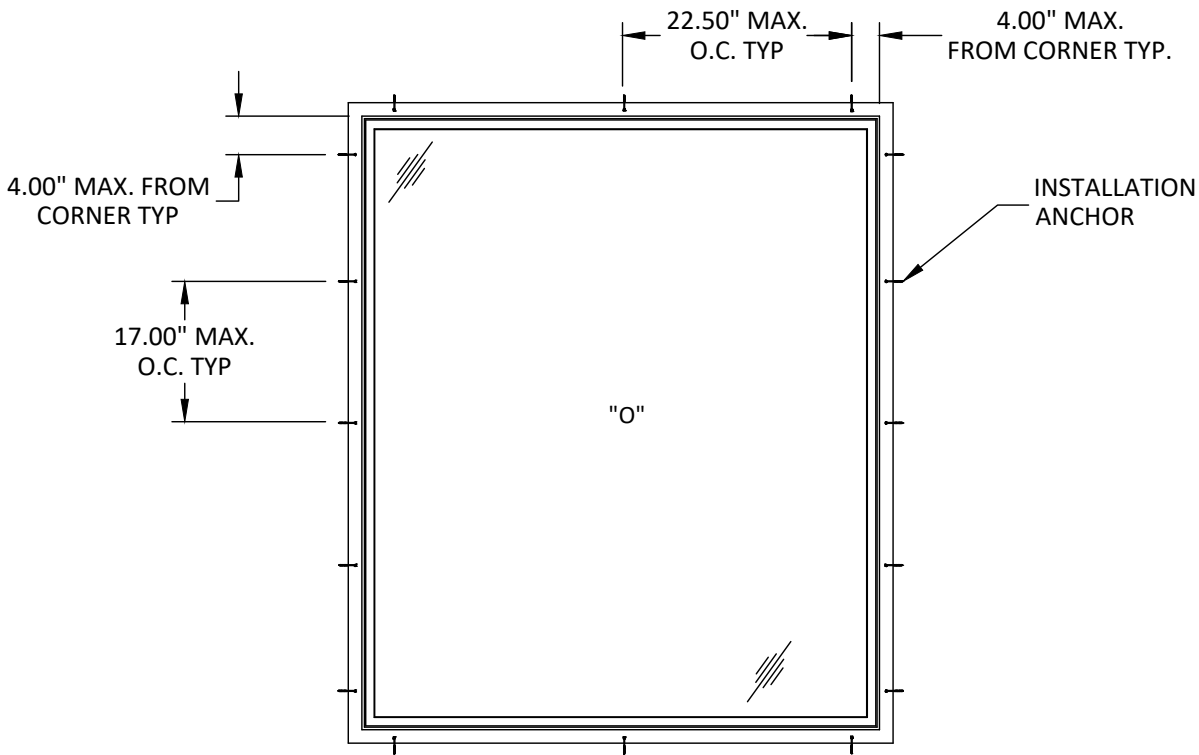
ELEVATION



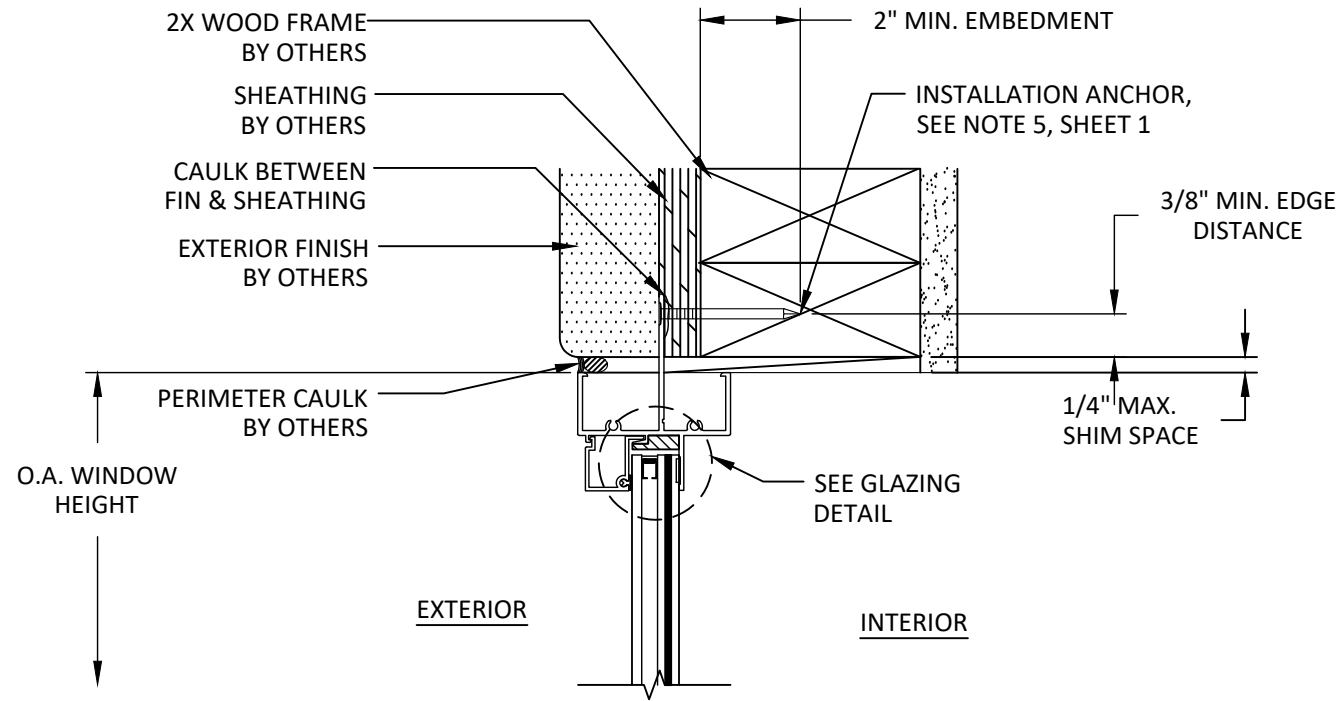
NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM QUALIFIED SQUARE FOOT AREA.



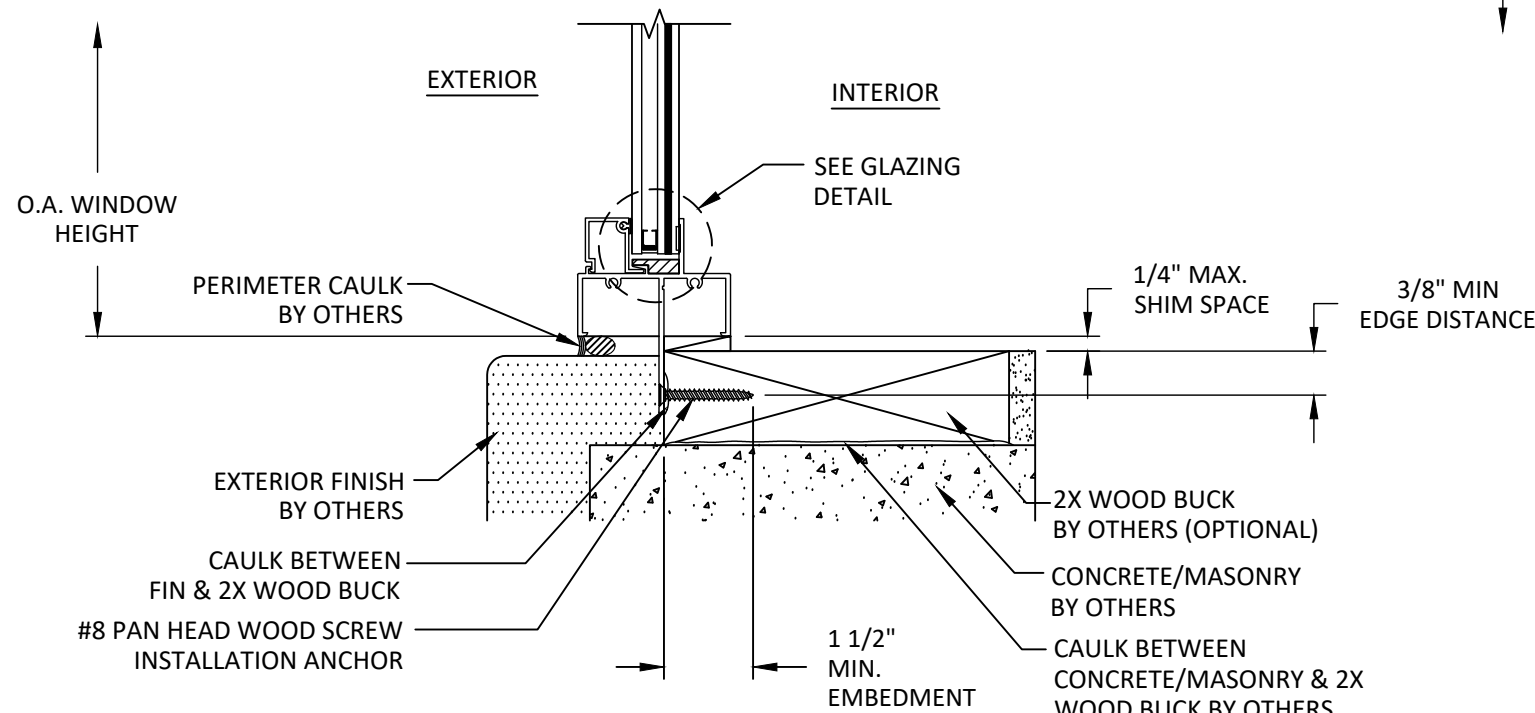
**ANCHOR LAYOUT
FIN**



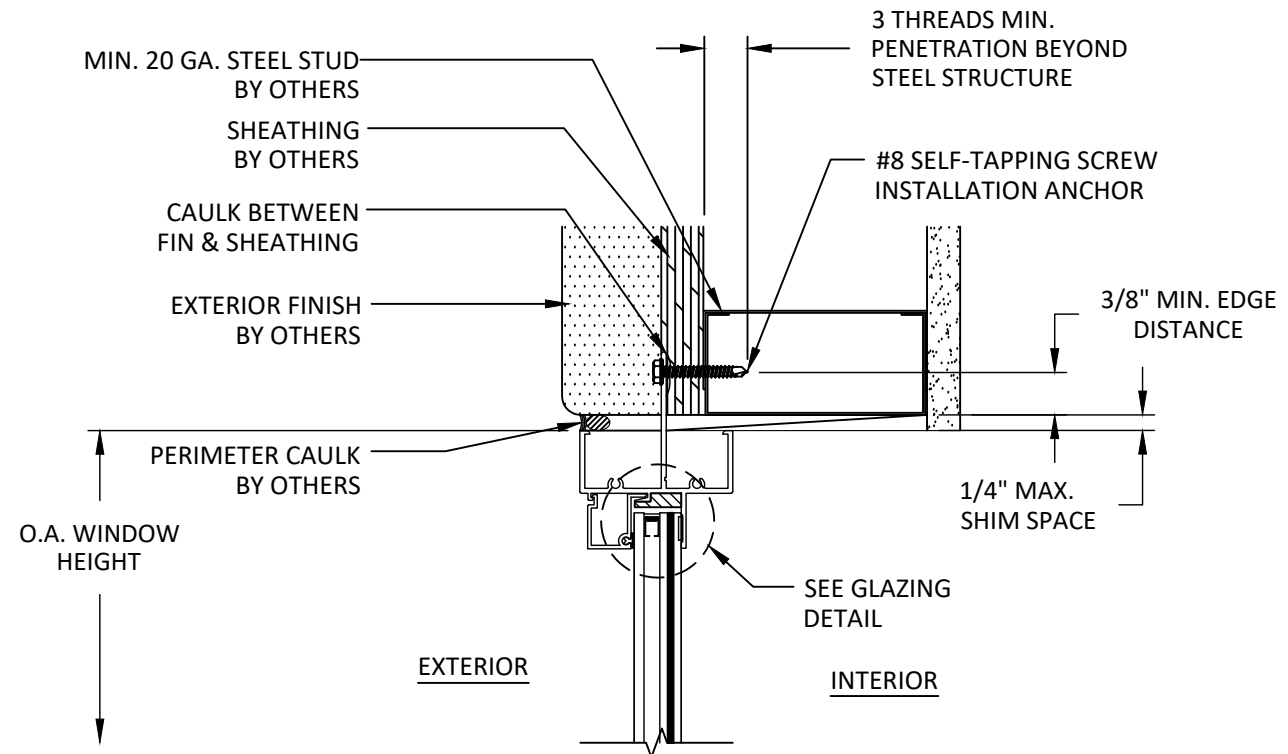
**ANCHOR LAYOUT
FLANGE**



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

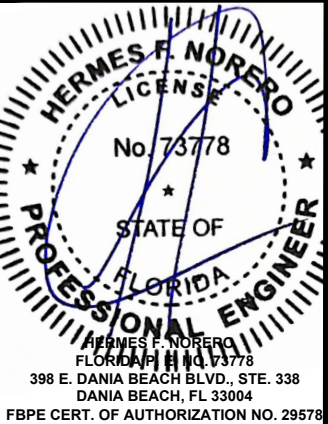


A
3 VERTICAL SECTION
SILL - 2X WOOD BUCK
FIN INSTALLATION



C
3 VERTICAL SECTION
HEAD - STEEL STUD
FIN INSTALLATION

TITLE: BUILDER SERIES 4701 FIR/FLIR FRAME FIXED WINDOW FIN VERTICAL SECTIONS		DATE	BY	DATE
		NO.	REVISION DESCRIPTION	
DATE: 02.22.12	DWN BY: GRN	A	FBC 5TH EDITION UPDATE	11.03.14
	CHK BY: HFN	B	COMBINED FIR & FLIR	07.01.19
	SCALE: NTS	C	7TH EDITION (2020) FBC	11.09.20
		D	8TH EDITION (2023) FBC	12.10.23

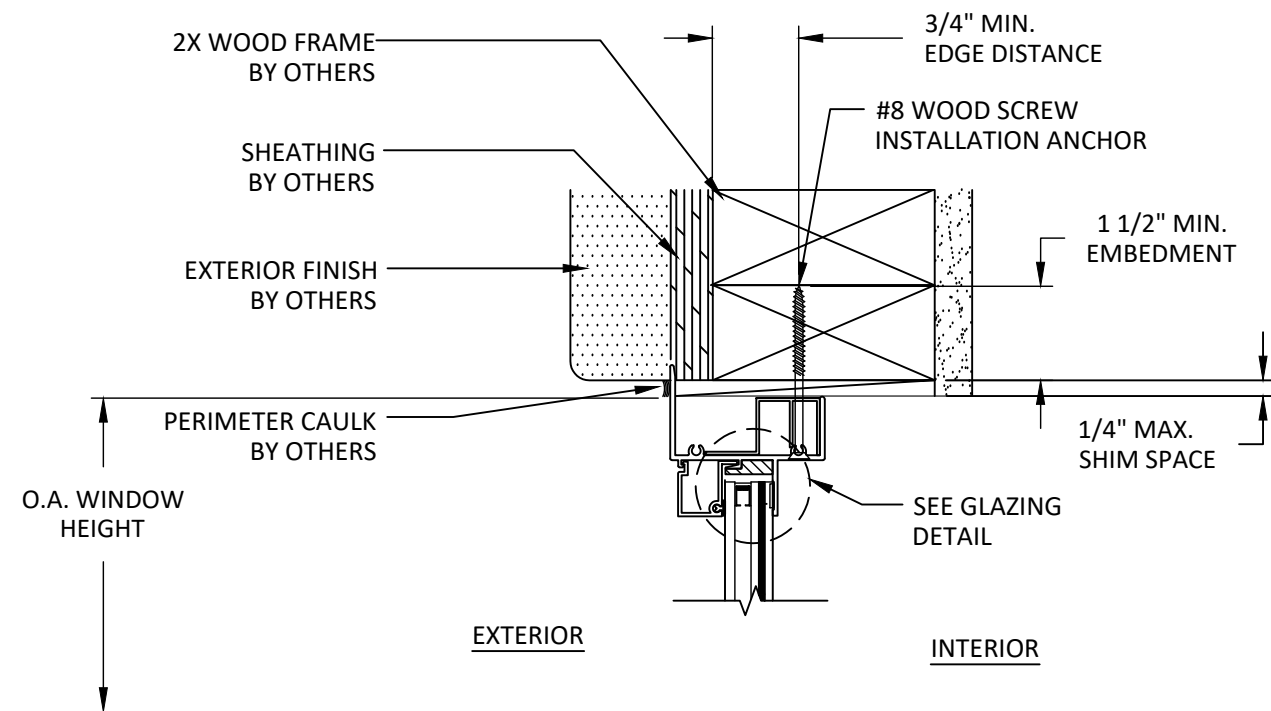


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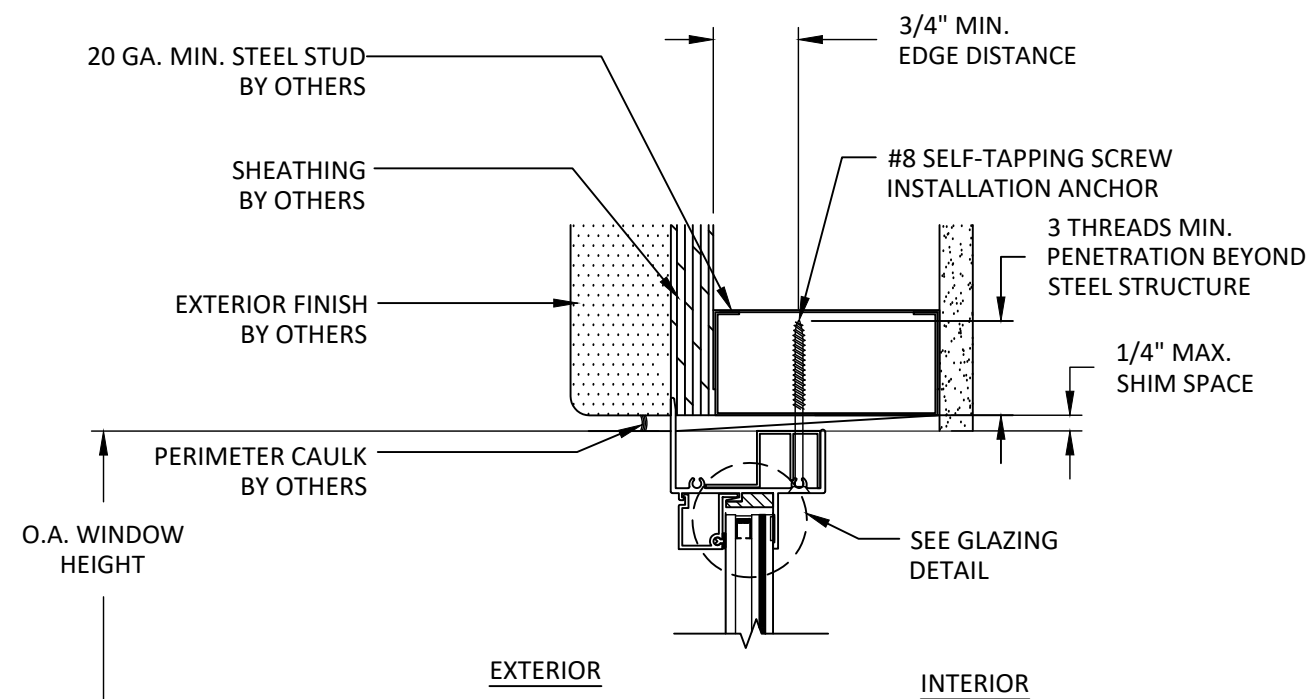
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DWG #: **PGW135**

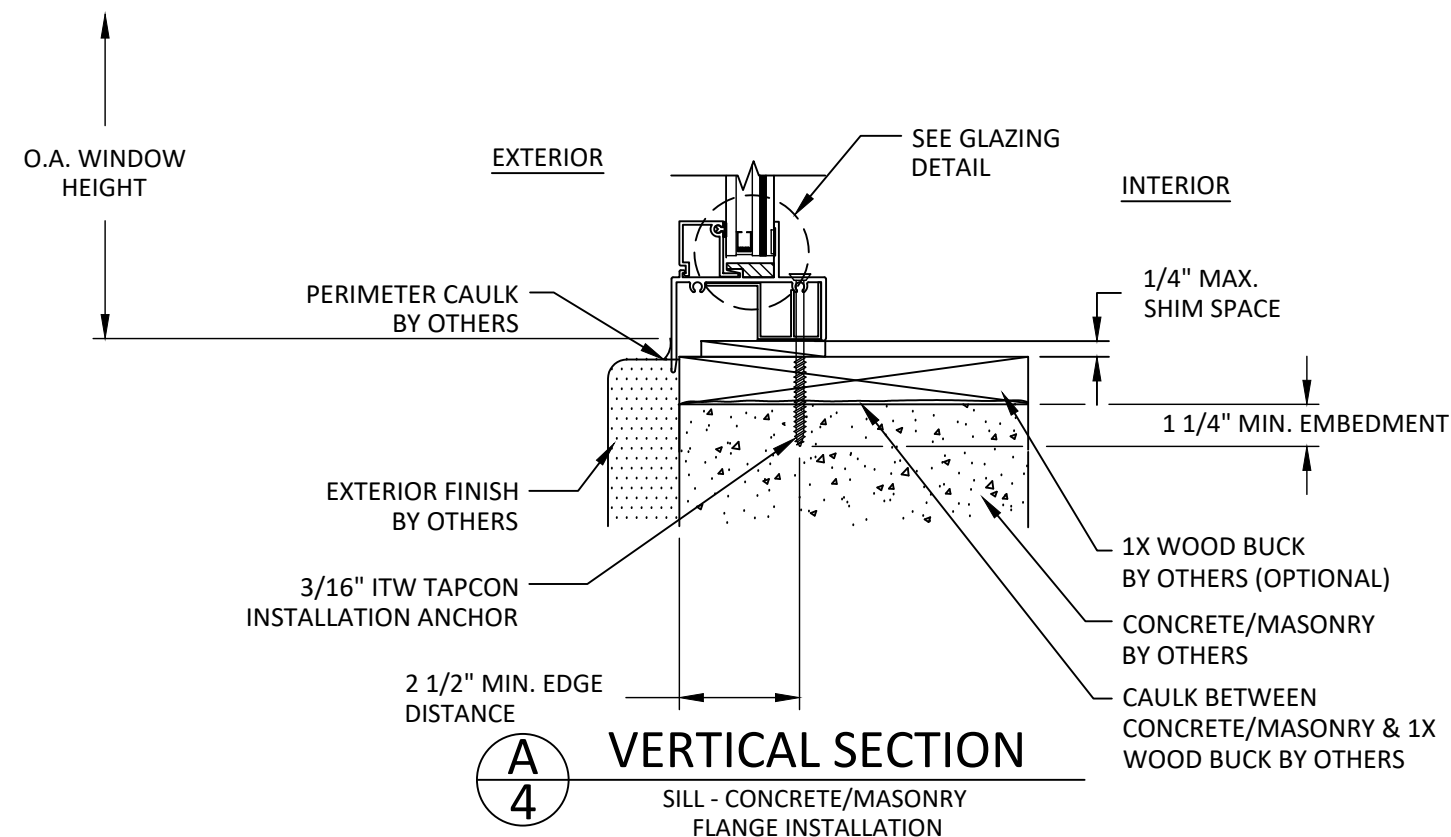
SHEET: **3 OF 6**



B
4
VERTICAL SECTION
HEAD - 2X WOOD FRAME
FLANGE INSTALLATION

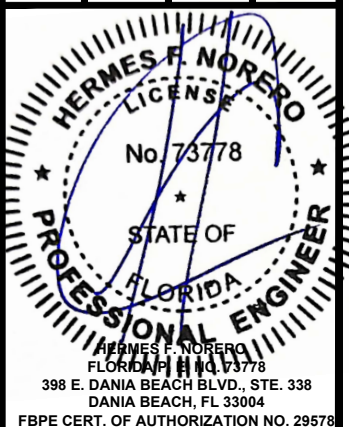


C
4
VERTICAL SECTION
HEAD - STEEL STUD
FLANGE INSTALLATION



A
4
VERTICAL SECTION
SILL - CONCRETE/MASONRY
FLANGE INSTALLATION

TITLE: BUILDER SERIES 4701 FIR/FLIR FRAME FIXED WINDOW FLANGE VERTICAL SECTIONS	NO.	REVISION DESCRIPTION	BY	DATE
	A	FBC 5TH EDITION UPDATE	RV	11.03.14
	B	COMBINED FIR & FLIR	CD	07.01.19
	C	7TH EDITION (2020) FBC	LMH	11.09.20
DATE: 02.22.12	D	8TH EDITION (2023) FBC	LMH	12.10.23
DWN BY: GRN	CHK BY: HFN	SCALE: NTS		

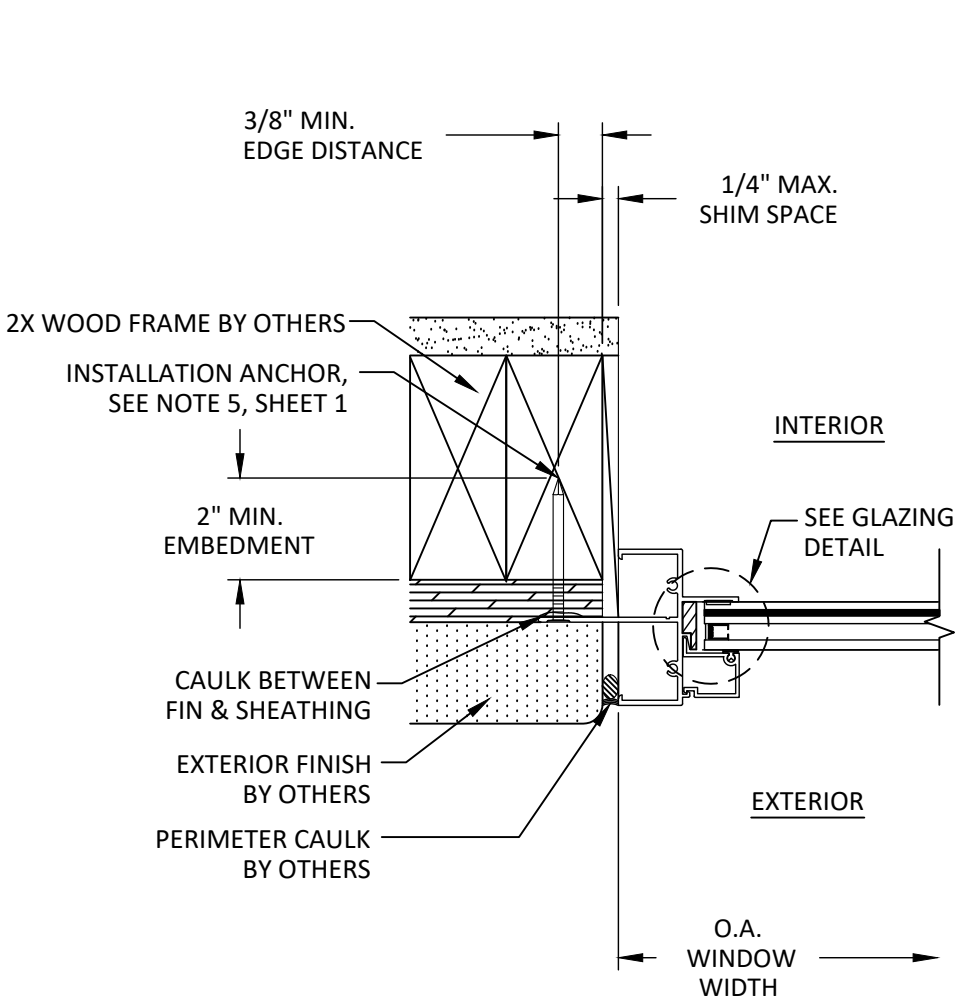


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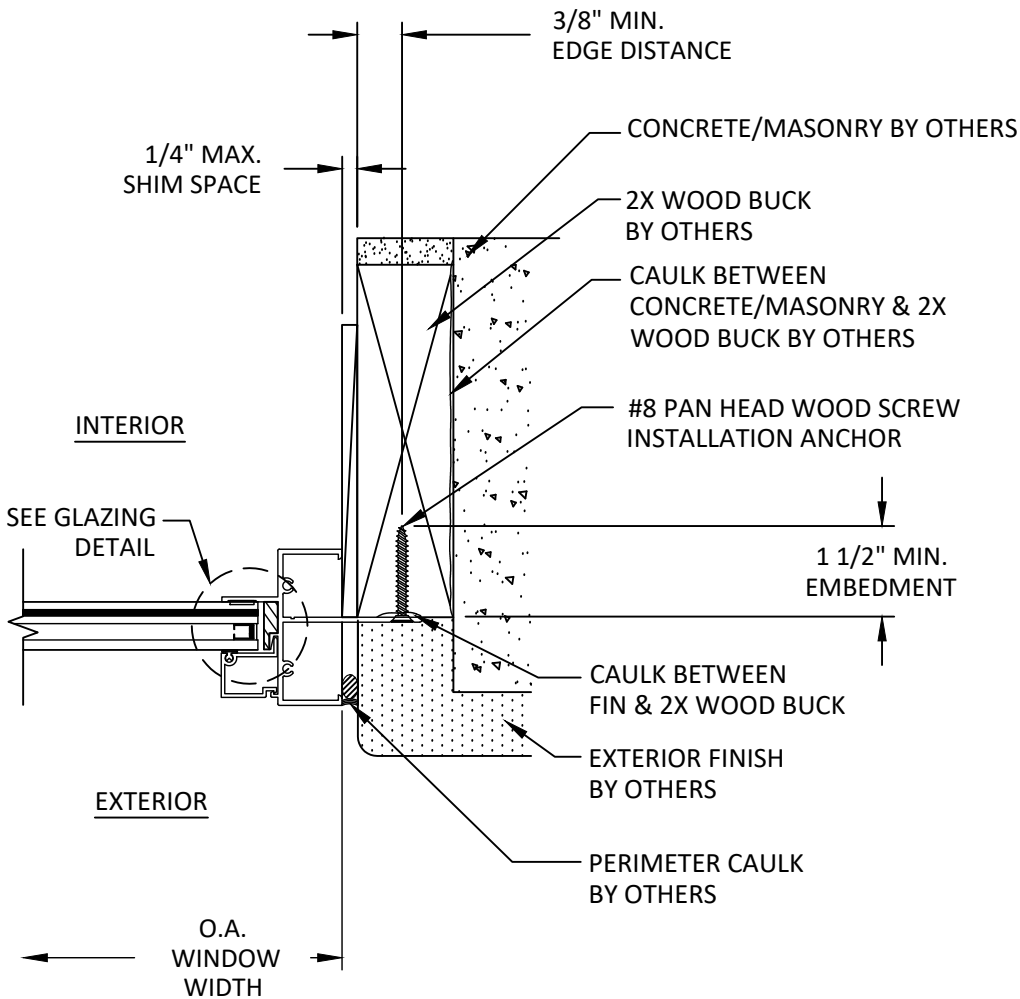
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DWG #: **PGW135**

SHEET: **4 OF 6**



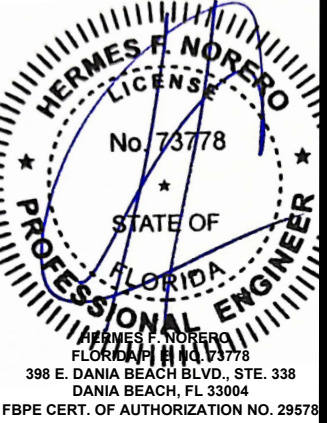
D
5 **HORIZONTAL SECTION**
JAMB - 2X WOOD FRAME
FIN INSTALLATION



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

TITLE: BUILDER SERIES 4701 FIR/FLIR FRAME FIXED WINDOW FIN HORIZONTAL SECTIONS				DATE	BY
REVISION DESCRIPTION				DATE	BY
NO.				11.03.14	RV
A				07.01.19	CD
B				11.09.20	LMH
C				12.10.23	LMH
D					

DATE:	02.22.12
DWN BY:	GRN
CHK BY:	HFN
SCALE:	NTS



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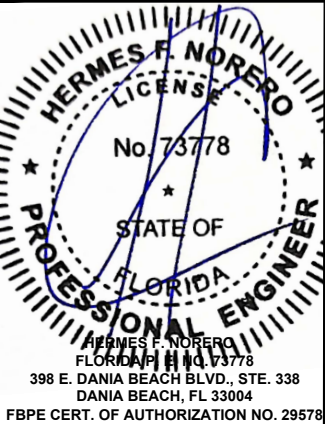
FL#: **15301**

DWG #: **PGW135**

SHEET: **5 OF 6**

TITLE: BUILDER SERIES 4701 FIR/FLIR FRAME FIXED WINDOW FLANGE HORIZONTAL SECTIONS & GLAZING DETAIL		REVISION DESCRIPTION	BY	DATE
NO.	A	FBC 5TH EDITION UPDATE	RV	11.03.14
B	COMBINED FIR & FLIR		CD	07.01.19
C	7TH EDITION (2020) FBC		LMH	11.09.20
D	8TH EDITION (2023) FBC		LMH	12.10.23

DATE:	02.22.12
DWN BY:	GRN
CHK BY:	HFN
SCALE:	NTS

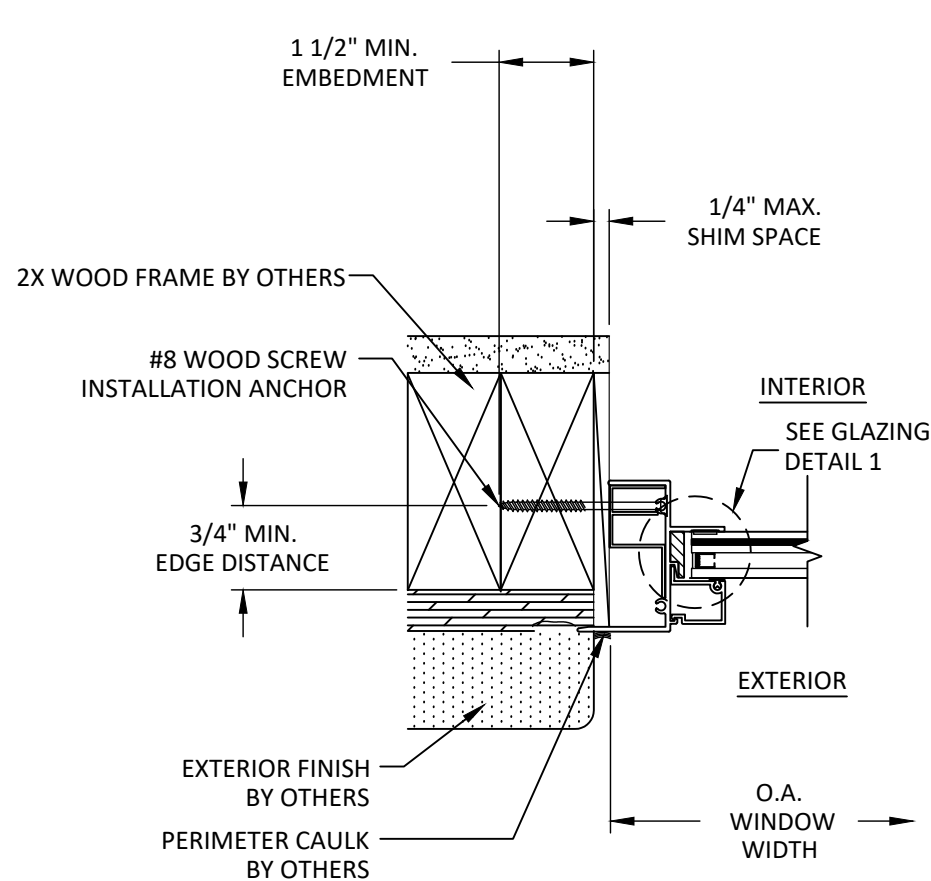


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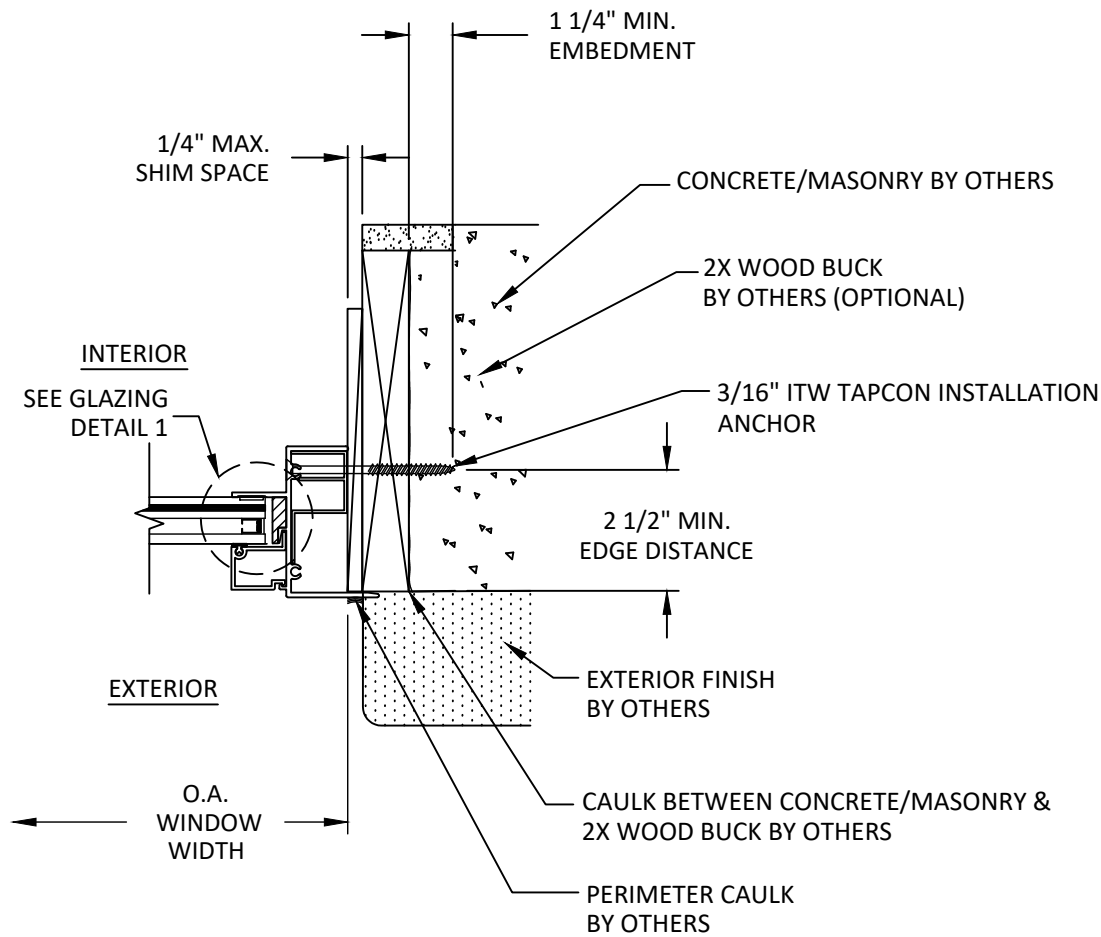
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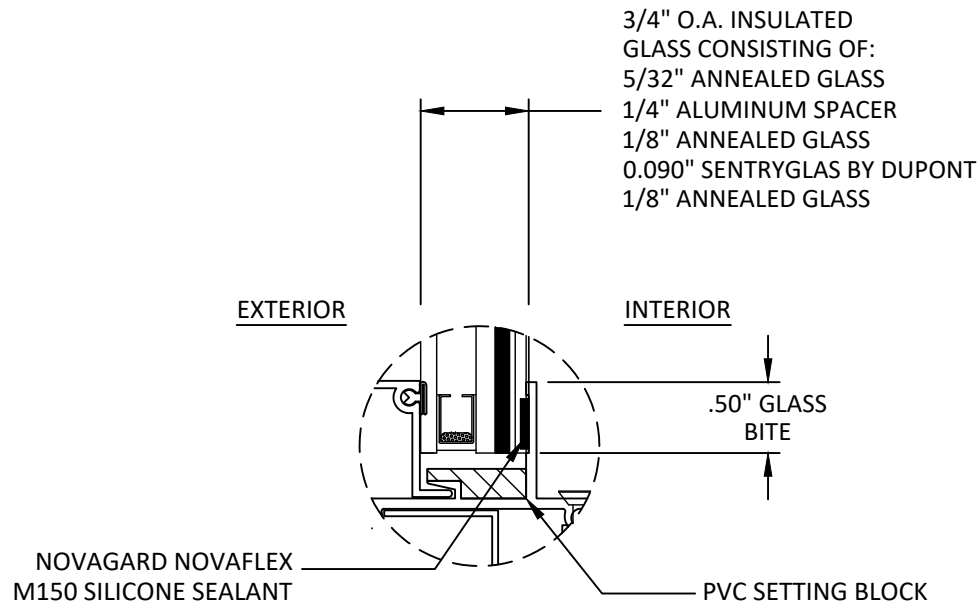
SHEET: **6 OF 6**



D
6 **HORIZONTAL SECTION**
JAMB - 2X WOOD FRAME
FLANGE INSTALLATION



E
6 **HORIZONTAL SECTION**
JAMB - 1X BUCK/CONCRETE/MASONRY
FLANGE INSTALLATION



GLAZING DETAIL 1