

PLY GEM WINDOWS - 1570 SERIES AWNING WINDOW IMPACT and HVHZ-IMPACT RATED

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ 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.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. FIN INSTALLATION: FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OR 11 GAUGE ROOFING NAILS OR 10d COMMON NAILS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. FIN INSTALLATION: FOR INSTALLATION INTO METAL STUD USE #8 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL.
7. THROUGH FRAME INSTALLATION: FOR INSTALLATION THROUGH IX 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.
8. THROUGH FRAME INSTALLATION: FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
9. THROUGH FRAME INSTALLATION: FOR INSTALLATION INTO METAL STUD USE #10 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL.
10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
12. 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.
13. 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.
14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - 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 WALL THICKNESS OF 35.9 MIL (0.0478" OR 18 GAUGE). MIN. 1/2" EDGE DISTANCE FOR FINLESS INSTALLATION AND MIN. 3/8" EDGE DISTANCE FOR FIN INSTALLATION.
 - F. ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8". MIN. 1/2" EDGE DISTANCE FOR FINLESS INSTALLATION AND MIN. 3/8" EDGE DISTANCE FOR FIN INSTALLATION.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT 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-II
 - ASTM E1886-19
 - ASTM E1996-20
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. 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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER OR AHJ.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: PVC
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAILS.
8. DESIGNATION "X" AND "O" STAND FOR THE FOLLOWING:
 - "X" - OPERABLE PANEL
 - "O" - FIXED PANEL

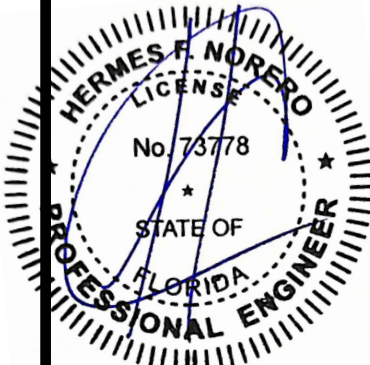
PRODUCT MODEL	OVERALL SIZE		DESIGN PRESSURE	INSTALLATION METHOD	MISSILE IMPACT RATING
	WIDTH	HEIGHT			
PI57NAWIIMP	48"	36"	+50/-50 PSF	NAIL FIN	LARGE & SMALL MISSILE IMPACT
PI57RAWIIMP	48"	36"	+50/-50 PSF	THROUGH FRAME	LARGE & SMALL MISSILE IMPACT

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5	BILL OF MATERIALS & COMPONENTS

 Ply Gem® WINDOWS & DOORS Part of the Cornerstone Building Brands Family				
433 N. MAIN ST., PO BOX 559 ROCKY MOUNT, VA 24151 PH: 540-484-6348 FX: 540-484-6683				
TITLE: I570 SERIES AWNING WINDOW (HVHZ)(IMPACT) INSTALLATION & GENERAL NOTES				
NO.		REVISION DESCRIPTION		DATE
A		8TH EDITION (2023) FBC.		12.08.23
B		UPDATED TO CURRENT FBC.		01.28.25
DATE: 05.03.21		DWN BY: LMH		CHK BY:
				SCALE: NTS
 HERMES F. NORERO FLORIDA P. E. NO. 73778 1900 NE MIAMI CT. SUITE 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION NO. 29578				
 BUILDING DROPS, INC. 1900 NE MIAMI CT. SUITE 2-15 MIAMI, FL 33132 PH:(954)399-8478 FX:(954)744-4738				
FL#: 38105				
DWG #: PGW323				
SHEET: 1 OF 5				

TITLE: 1570 SERIES AWNING WINDOW (HVHZ)(IMPACT) ELEVATIONS AND ANCHOR LAYOUTS			
NO.	REVISION DESCRIPTION	BY	DATE
A	8TH EDITION (2023) FBC.	LMH	12.08.23
B	UPDATED TO CURRENT FBC.	LMH	01.28.25

DATE: 05.03.21	DWN BY: LMH	CHK BY:	SCALE: NTS
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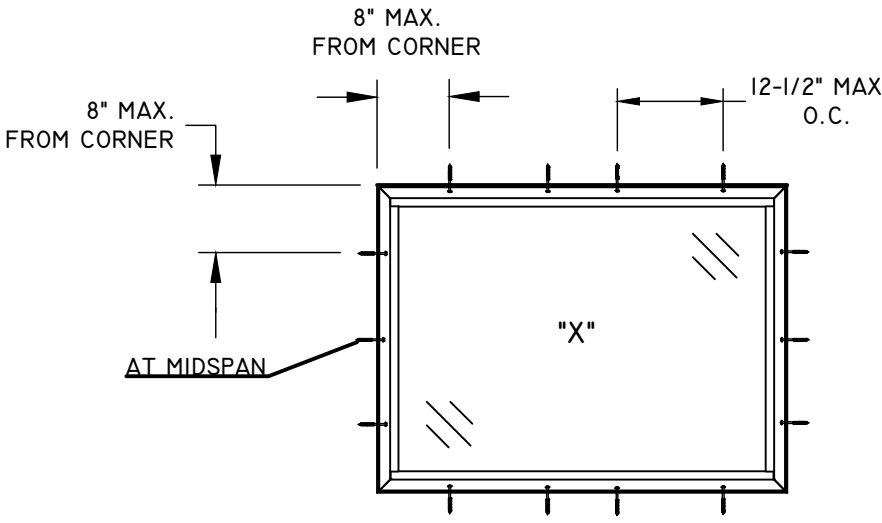
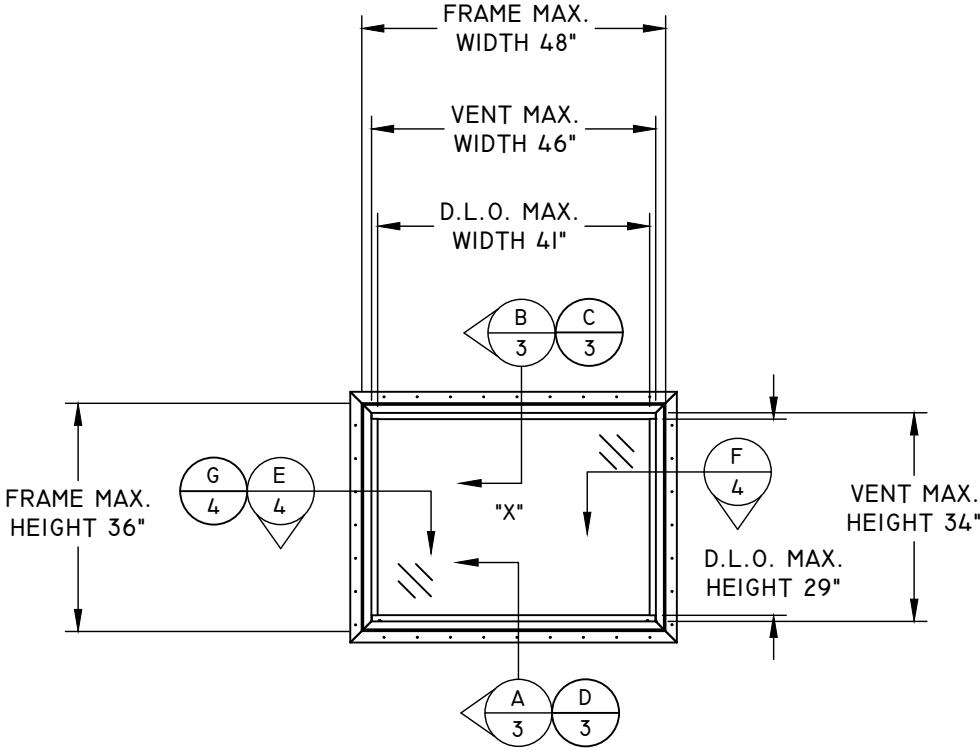
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FLORIDA P. E. NO. 73778
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

BD BUILDING DROPS
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1900 NE MIAMI CT. SUITE 2-15
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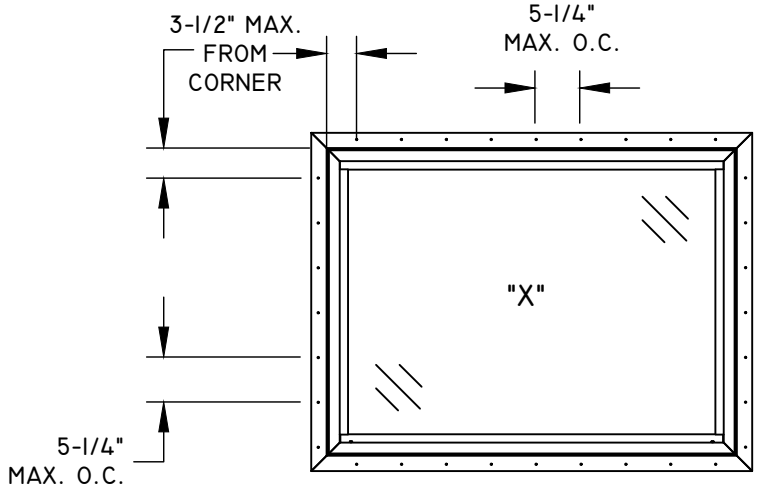
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DWG #: PGW323

SHEET: 2 OF 5

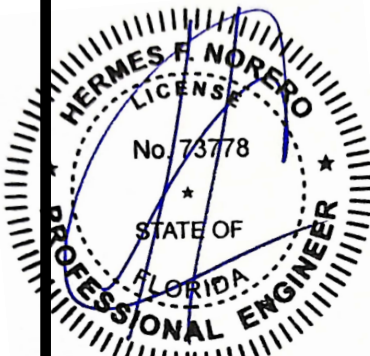


ANCHOR LAYOUT
FINLESS



ANCHOR LAYOUT
FIN

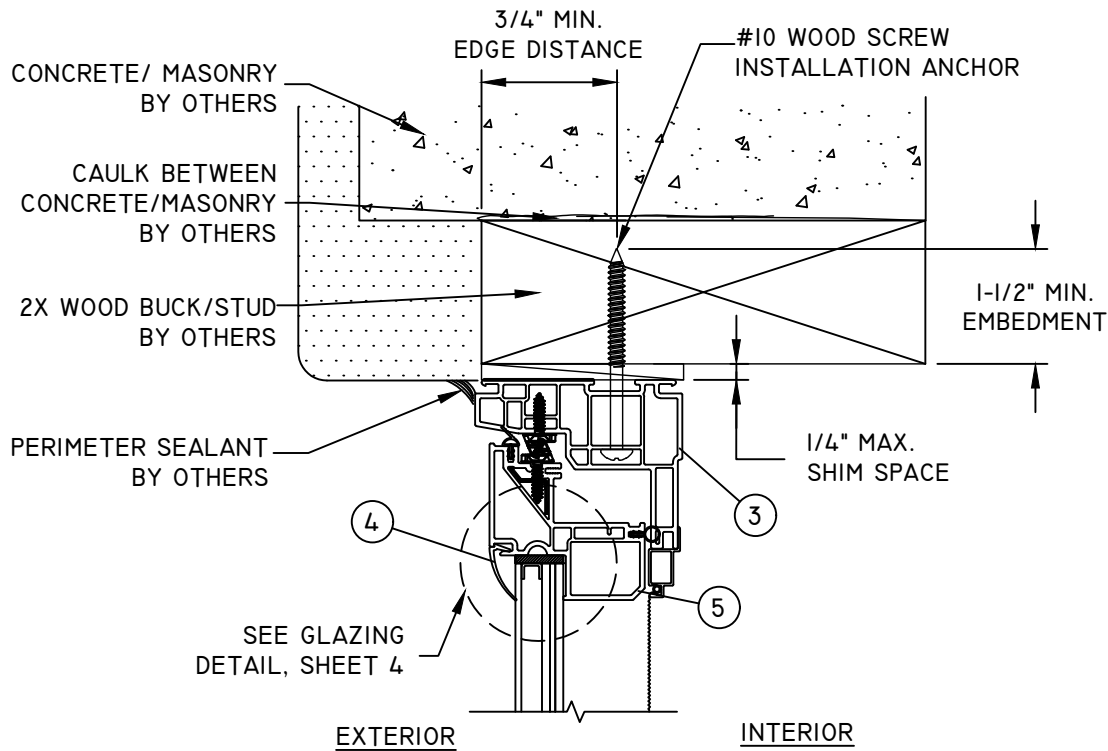
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	CHK BY:	LMH	UPDATED TO CURRENT FBC.	
SCALE: NTS				



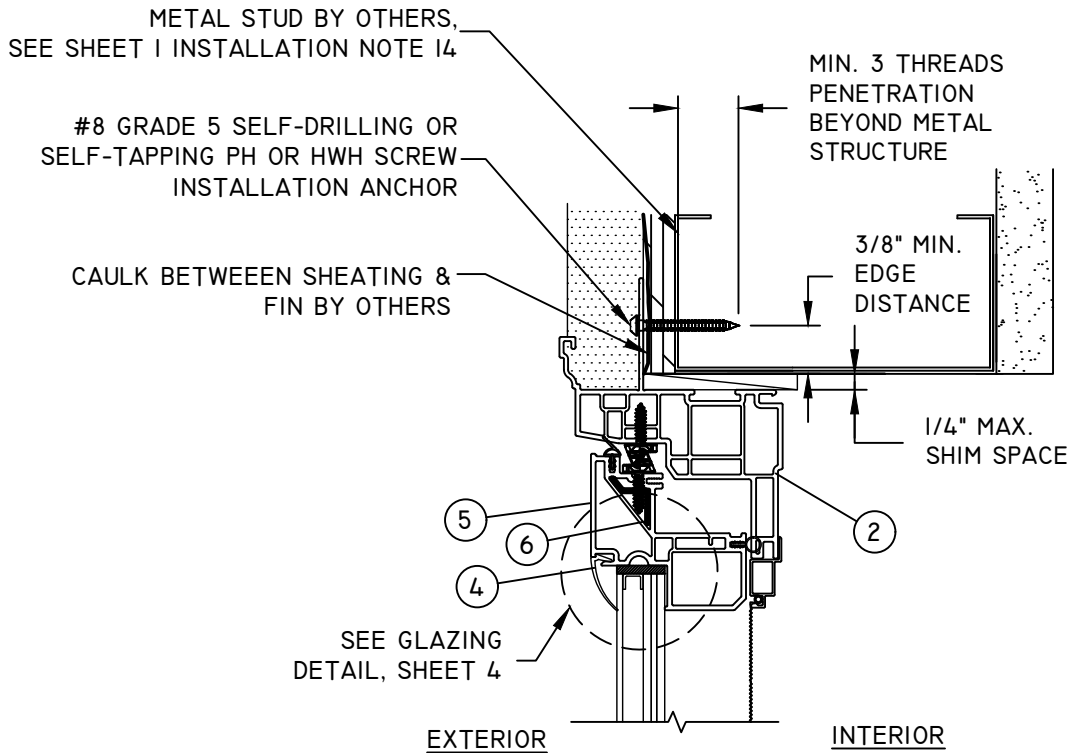
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DWG #: **PGW323**
SHEET: **3 OF 5**

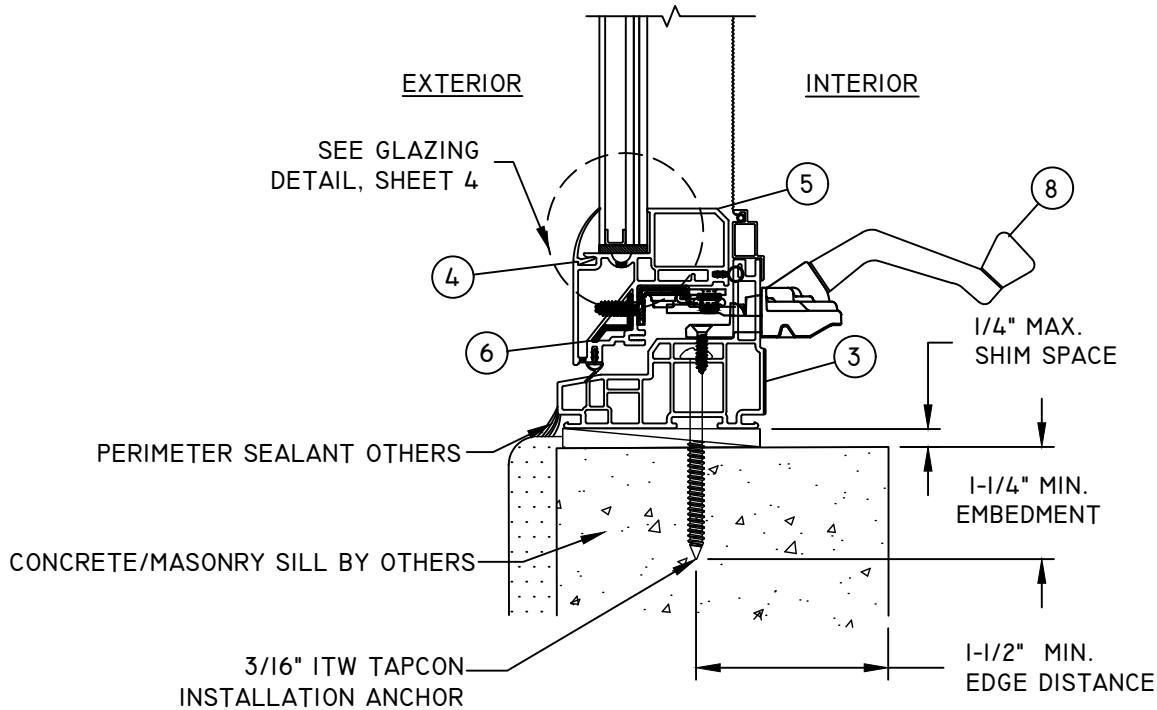


B
3 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
FINLESS INSTALLATION



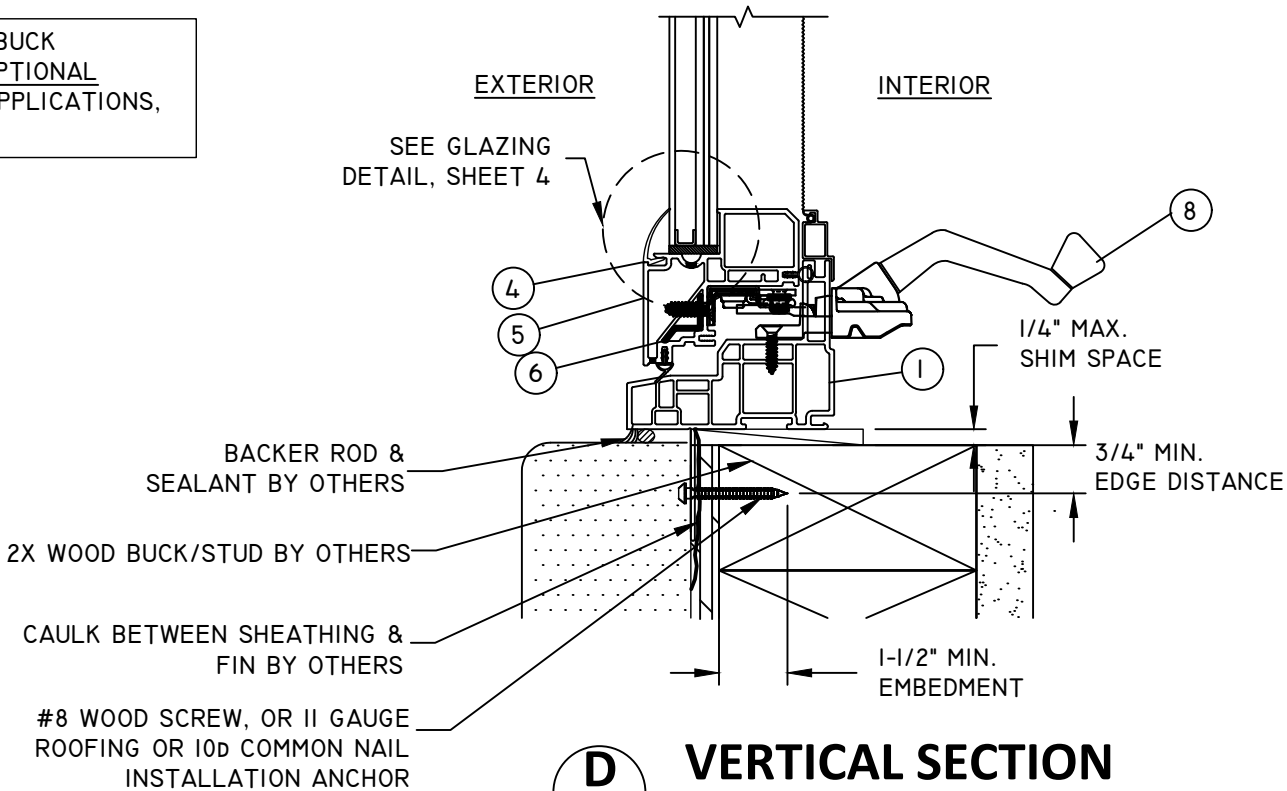
C
3 **VERTICAL SECTION**
HEAD-METAL STUD
FIN INSTALLATION WITH OPTIONAL J-CHANNEL

NOTE: BOTH NAIL FIN AND REPLACEMENT FRAMES MAY USE OPTIONAL J-CHANNEL SUCH THAT TYPICAL INSTALLATION METHODS AND ANCHOR REQUIREMENTS ARE MET

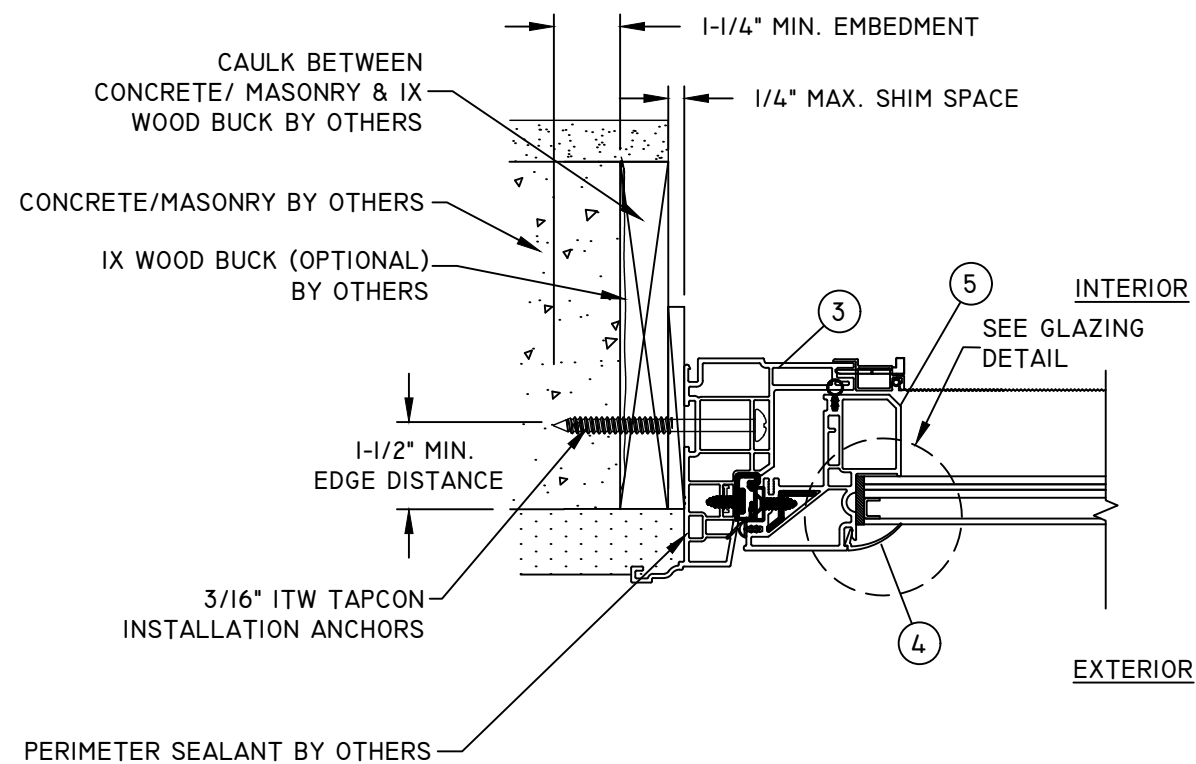


A
3 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
FINLESS INSTALLATION

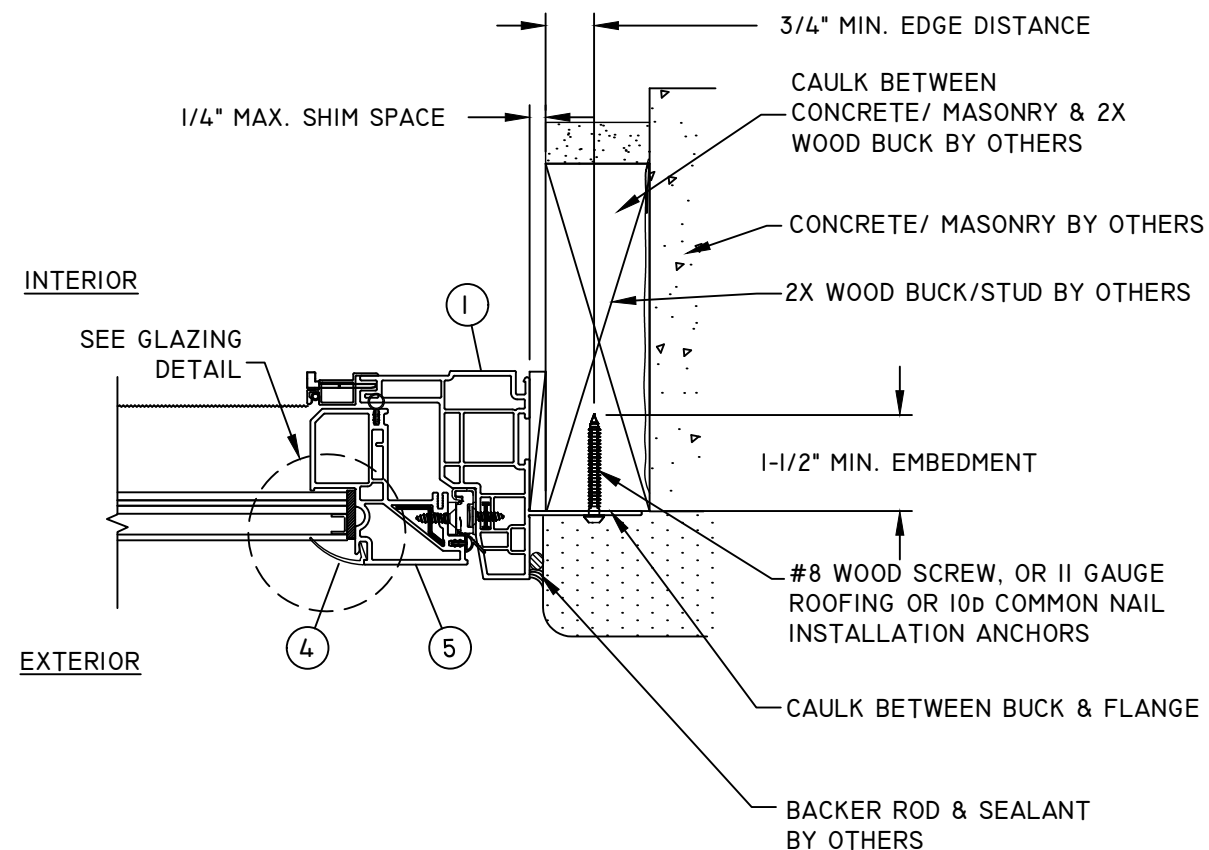
NOTE: 1X WOOD BUCK BY OTHERS IS OPTIONAL FOR MASONRY APPLICATIONS, SEE DETAIL E/4.



D
3 **VERTICAL SECTION**
SILL - 2X WOOD FRAME
FIN INSTALLATION

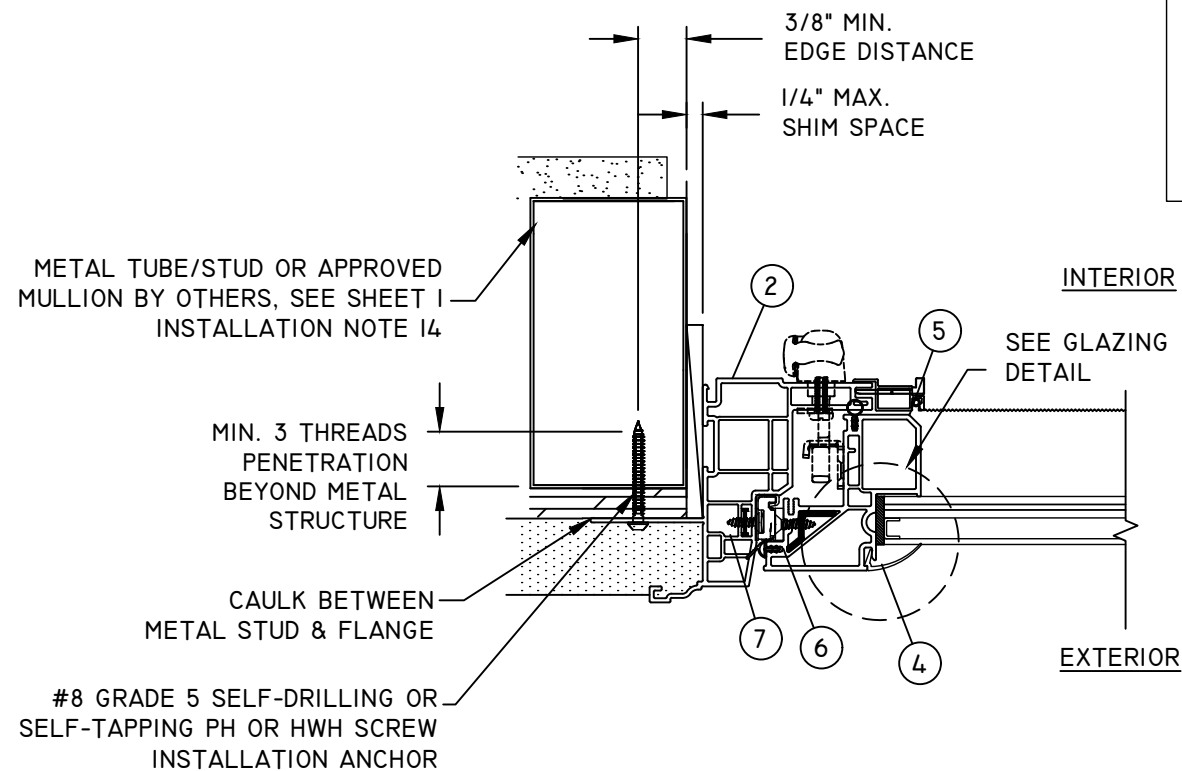


E
4 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY/1X BUCK
FINLESS INSTALLATION

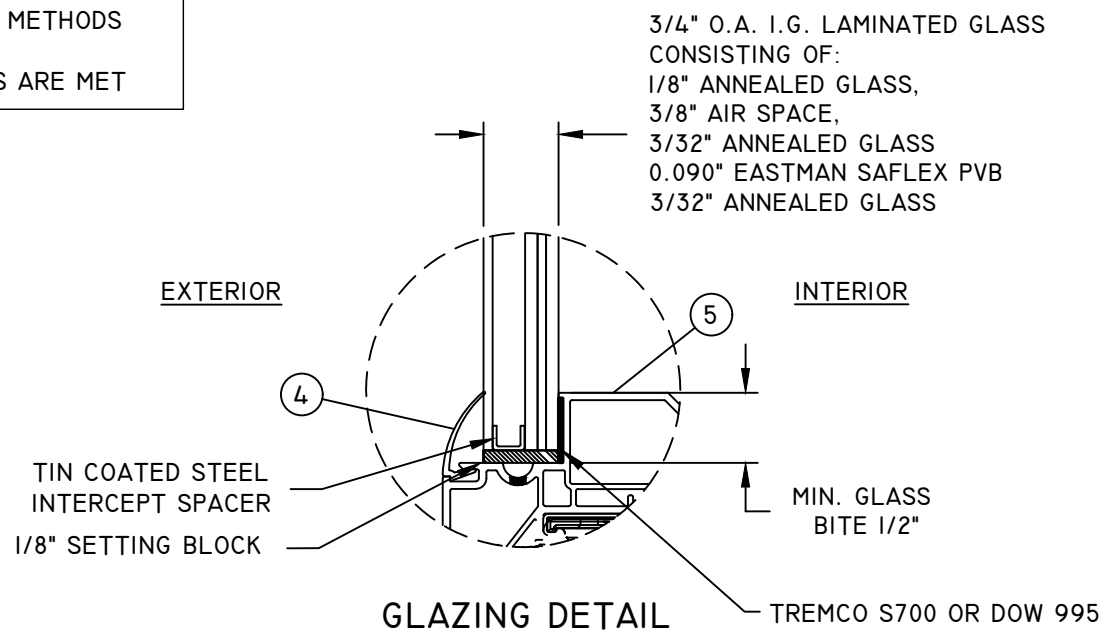


F
4 **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
FIN INSTALLATION

NOTE: BOTH NAIL FIN AND REPLACEMENT FRAMES MAY USE OPTIONAL J-CHANNEL SUCH THAT TYPICAL INSTALLATION METHODS AND ANCHOR REQUIREMENTS ARE MET

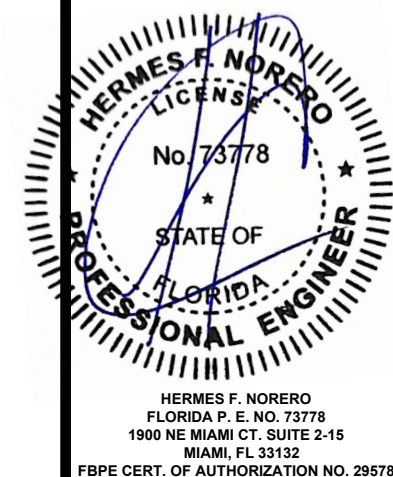


G
4 **HORIZONTAL SECTION**
JAMB - METAL TUBE/STUD OR APPROVED MULLION
FIN INSTALLATION WITH OPTIONAL J-CHANNEL



NOTE:
1) FOR INSTALLATION ABOVE 30 FT. ABOVE GRADE IN AREAS REQUIRING IMPACT RESISTANCE, ALL UNITS MUST BE SAFETY GLAZED OR COVERED BY AN IMPACT PROTECTIVE SYSTEM PER FBC CHAPTER 24.

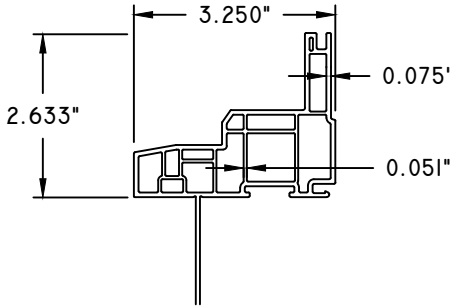
TITLE: 1570 SERIES AWNING WINDOW (HVHZ)(IMPACT) HORIZONTAL SECTIONS & GLAZING OPTIONS	NO.	REVISION DESCRIPTION	BY	DATE
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DATE: 05.03.21	DWN BY: LMH	CHK BY:	SCALE: NTS	



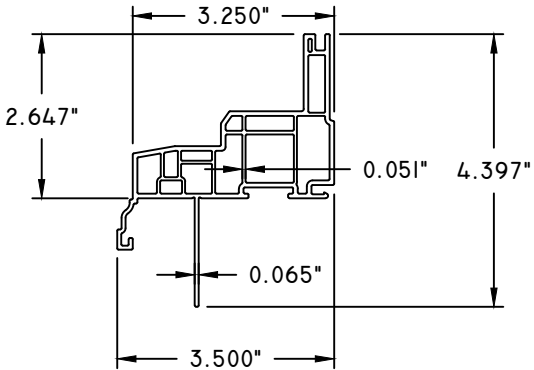
BILL OF MATERIALS

ITEM #	DESCRIPTION	MANUFACTURER	MATERIAL
1	NAIL FIN FRAME	PLY GEM / SILVERLINE	PVC
2	NAIL FIN FRAME WITH J-CHANNEL	PLY GEM / SILVERLINE	PVC
3	REPLACEMENT FRAME	PLY GEM / SILVERLINE	PVC
4	GLAZING BEAD	PLY GEM / SILVERLINE	PVC
5	AWNING MAIN SASH	PLY GEM / SILVERLINE	PVC
6	SASH REINFORCEMENT	PLY GEM / SILVERLINE	ALUMINUM
7	TRACK REINFORCEMENT	PLY GEM / SILVERLINE	ALUMINUM
8	SS ENCORE DUAL ARM OPERATOR	PLY GEM / SILVERLINE	ALUMINUM
9	REPLACEMENT FRAME WITH J-CHANNEL	PLY GEM / SILVERLINE	PVC

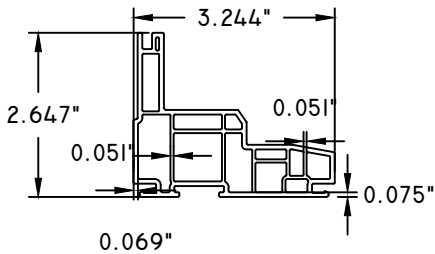
1 NAIL FIN FRAME
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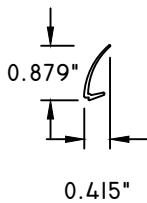
2 NAIL FIN FRAME WITH J-CHANNEL
PVC



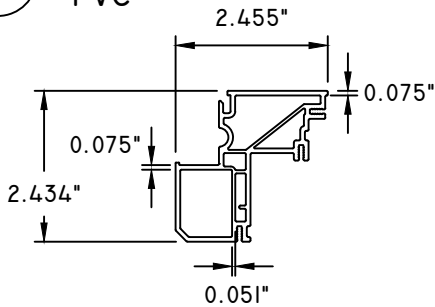
3 REPLACEMENT FRAME
PVC



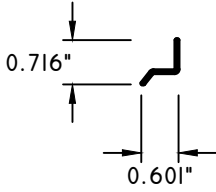
4 GLAZING BEAD
PVC



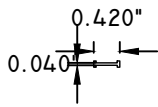
5 AWNING MAIN SASH
PVC



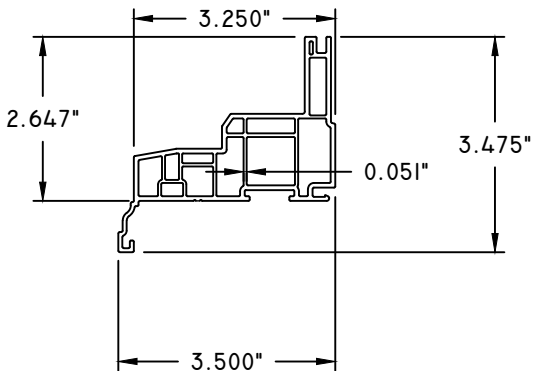
6 SASH REINFORCEMENT
ALUMINUM



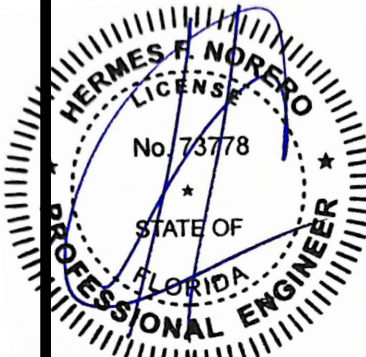
7 TRACK REINFORCEMENT
ALUMINUM



9 REPLACEMENT FRAME W/ J-CHANNEL
PVC



TITLE: 1570 SERIES AWNING WINDOW (HVHZ)(IMPACT) BILL OF MATERIALS & COMPONENTS	DATE	BY	REVISION DESCRIPTION	NO.
	05.03.21	LMH		A
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SHEET: **5 OF 5**