

SEAWAY MANUFACTURING CORP.

FIXED WINDOWS (WZ3)(IMPACT)

GENERAL NOTES:

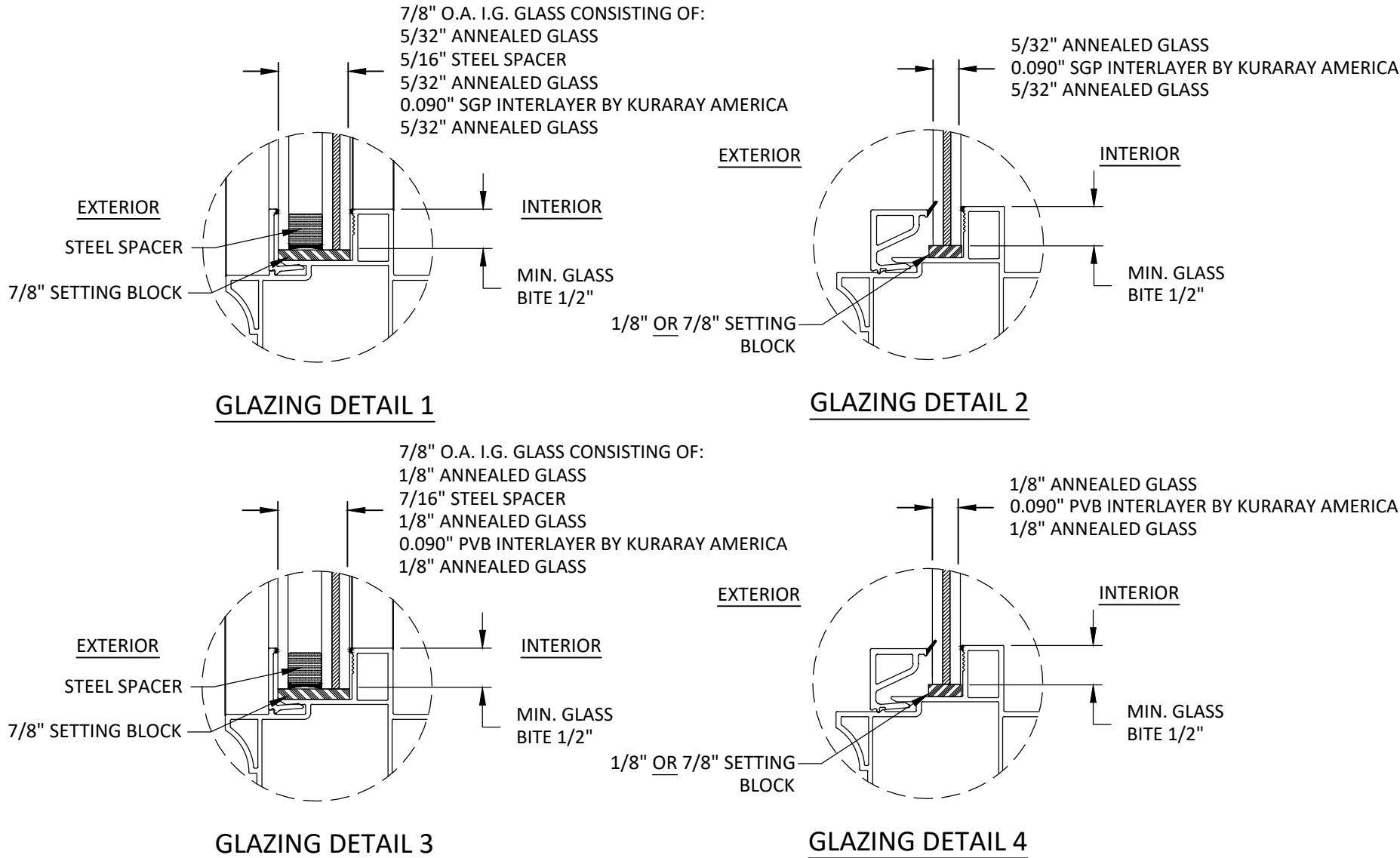
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
 - ASTM E1886-19
 - ASTM E1996-17
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 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.
- 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN IN WIND ZONE 4.
- WINDOW FRAME MATERIAL: PVC
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

GLAZING NOTES:

- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING 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.
- TWO APPROVED SETTING BLOCKS SHALL BE USED FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DP TABLE ON SHEET 1, AND ELEVATIONS ON SHEET 2.

MAX OVERALL SIZE		CONFIG.	DESIGN PRESSURE	MISSILE IMPACT RATING	GLAZING
WIDTH	HEIGHT				
71.50"	73.50"	O	+50 / -50 PSF	IMPACT	1-2
37.52"	71.45"	O	+50 / -50 PSF	IMPACT	3-4

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



SEAWAY MANUFACTURING CORP.
2250 EAST 33RD ST.
ERIE, PA 16510
PH: (814) 898-2255
FX: (814) 899-5556

FIXED WINDOWS
(WZ3) (IMPACT)

GENERAL NOTES & GLAZING DETAILS

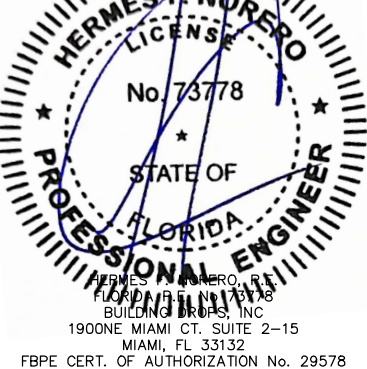
PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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REMARKS	BY	DATE
SIZE & GLASS UPDATES	MG	05/23

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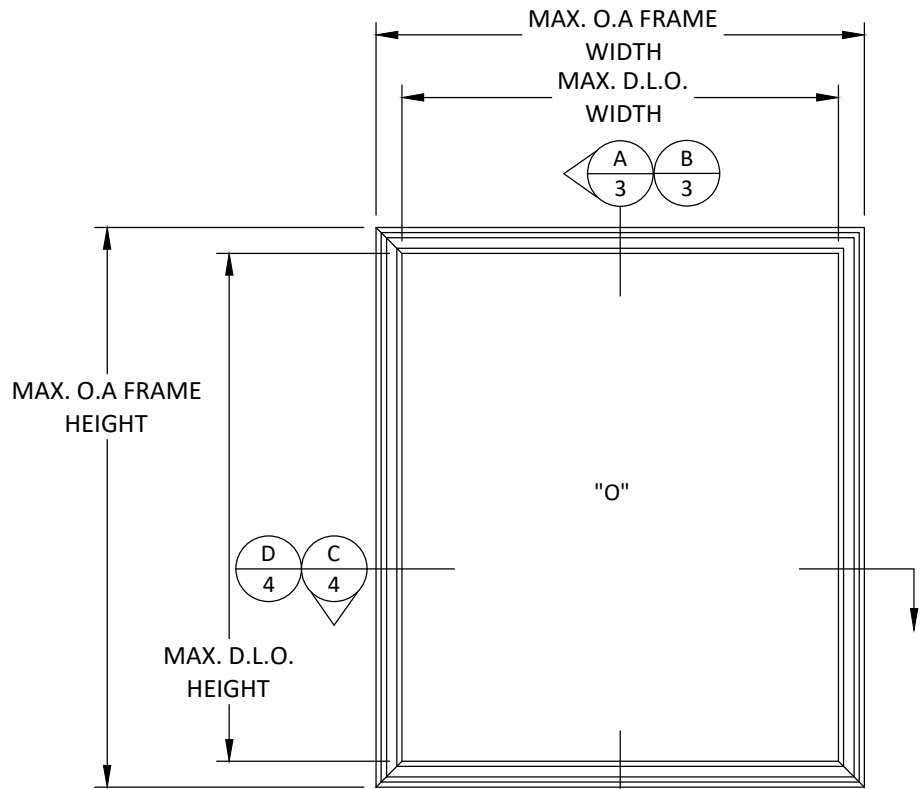
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Reason: I am approving this document
Date: 2023.10.23 14:32:14 -0400



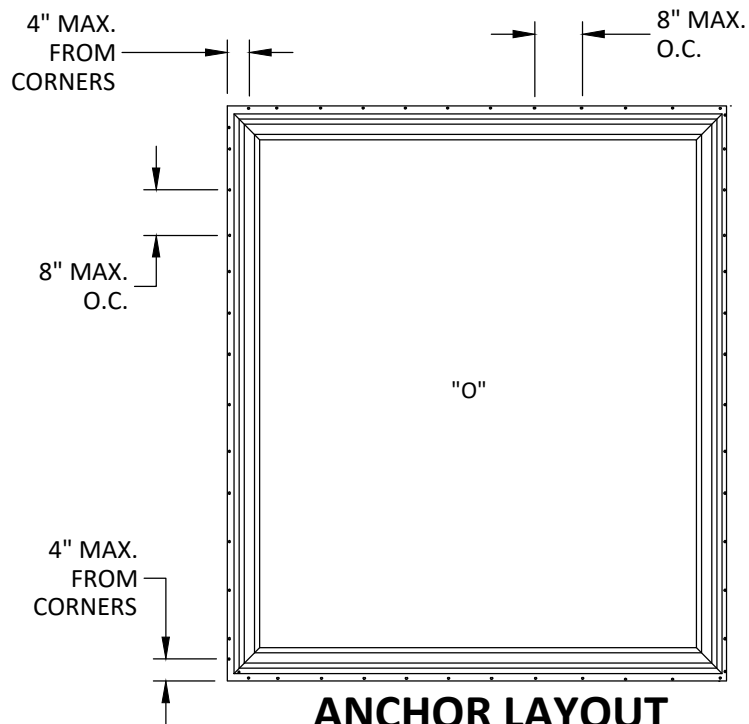
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DATE:		02.26.21	
DWG. BY:		CHK. BY:	
ER		HFN	
SCALE:		NTS	
DWG. #:		SEM008	
SHEET:		1	
		OF 5	

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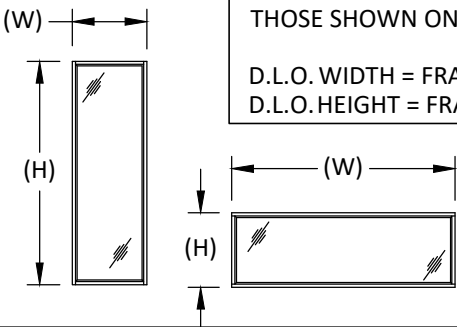
VALUES >50PSF ARE FOR
INTERPOLATION PURPOSES ONLY.
MAXIMUM ALLOWABLE DESIGN
PRESSURE FOR THIS PRODUCT
AND CONFIGURATION IS 50PSF



ELEVATION
FIXED WINDOW

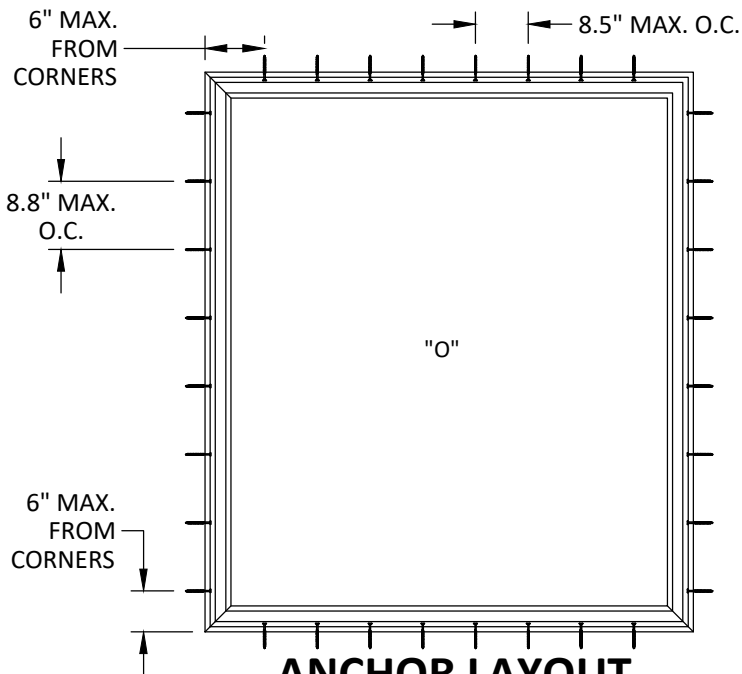


ANCHOR LAYOUT
NAIL FIN - FIXED WINDOW (#8 SCREWS)



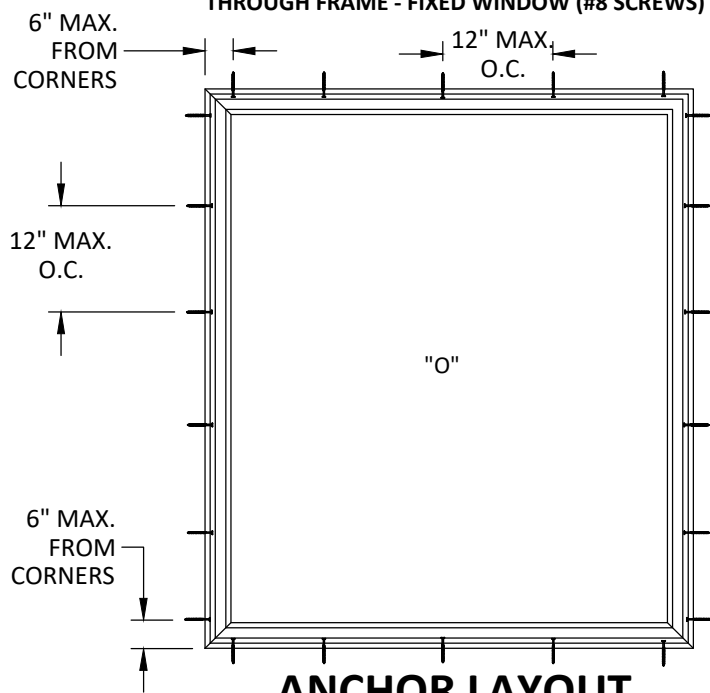
NOTE:
WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM TESTED SQUARE FOOT AREA. ANCHOR SPACING SHALL NOT EXCEED THOSE SHOWN ON SHEET 2.

D.L.O. WIDTH = FRAME WIDTH - 4.5
D.L.O. HEIGHT = FRAME HEIGHT - 4.5



ANCHOR LAYOUT

THROUGH FRAME - FIXED WINDOW (#8 SCREWS)



ANCHOR LAYOUT

THROUGH FRAME - FIXED WINDOW (#10 SCREWS)

DESIGN LOAD CAPACITY - PSF		
G1 OR G2 GLAZING (SGP)		
FRAME WIDTH	FRAME HEIGHT	EXT. (+) INT. (-)
48	42	55.0
54		55.0
60		55.0
66		55.0
72		55.0
78		55.0
84		55.0
48	48	55.0
54		55.0
60		55.0
66		55.0
72		55.0
78		55.0
84		55.0
48	54	55.0
54		55.0
60		55.0
66		55.0
72		55.0
78		55.0
84		55.0
48	60	55.0
54		55.0
60		55.0
66		55.0
72		55.0
78		55.0
84		52.1
48	66	55.0
54		55.0
60		55.0
66		55.0
72		55.0
78		51.0
84		51.0
48	73.5	55.0
54		55.0
60		55.0
66		54.2
72		50.0
78		50.0
84		50.0
48	78	55.0
54		55.0
60		49.9
66		45.3
72		45.3
78		45.3
84		45.3
48	84	55.0
54		49.9
60		44.4
66		39.9
72		39.9
78		39.9
84		39.9
48	90	55.0
54		46.4
60		40.6
66		36.1
72		36.1
78		36.1
84		36.1
48	96	55.0
54		44.6
60		38.2
66		33.4
72		33.4
78		33.4
84		33.4

DESIGN LOAD CAPACITY - PSF		
G3 OR G4 GLAZING (PVB)		
FRAME WIDTH	FRAME HEIGHT	EXT. (+) INT. (-)
12	42	55.0
18		55.0
24		55.0
30		55.0
36		55.0
42		55.0
48		55.0
54		55.0
60		53.2
12	48	55.0
18		55.0
24		55.0
30		55.0
36		55.0
42		55.0
48		55.0
54		51.7
12	54	55.0
18		55.0
24		55.0
30		55.0
36		55.0
42		55.0
48		51.7
12	60	55.0
18		55.0
24		55.0
30		55.0
36		55.0
42		53.2
12	66	55.0
18		55.0
24		55.0
30		55.0
36		55.0
42		53.2
12	71.45	55.0
18		55.0
24		55.0
30		55.0
36		55.0
42		50.0
12	78	55.0
18		55.0
24		55.0
30		48.1
36		48.1
42		48.1
12	84	55.0
18		55.0
24		48.1
30		38.5
36		38.5
42		38.5
12	90	55.0
18		52.1
24		39.1
30		39.1
36		39.1
42		39.1
12	96	55.0
18		43.0
24		32.2
30		32.2
36		32.2
42		32.2



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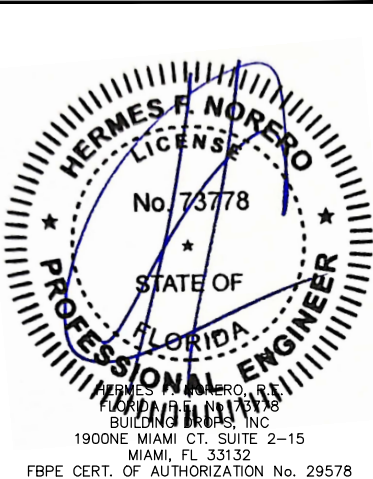
ELEVATIONS, ANCHOR LAYOUTS & DESIGN PRESSURE TABLE

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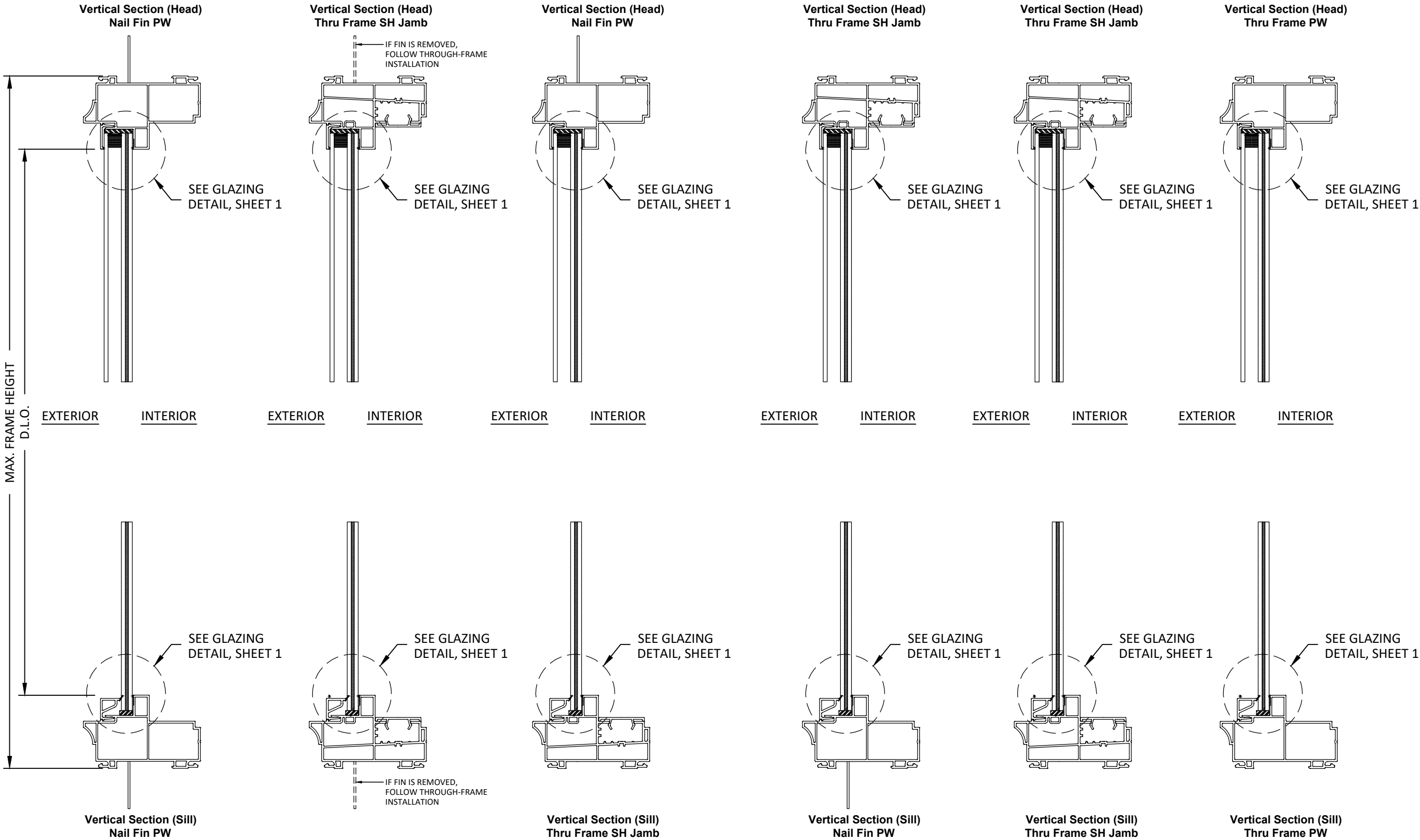
REMARKS	BY	DATE
SIZE & GLASS UPDATES	MG	05/23

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DATE:	02.26.21
DWG. BY:	ER
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SEM008
SHEET:	2

NOTE:
THE SINGLE HUNG JAMB CAN BE USED IN PLACE OF PICTURE WINDOW FRAME IN ANY COMBINATION, AND MAY HAVE ITS FIN REMOVED FOR A THROUGH-FRAME INSTALLATION FOR ATTACHMENT TO THE MULLION STIFFENER(S).
OTHERWISE IT WOULD BE NAIL FIN INSTALLATION.



A
3
VERTICAL SECTION
NAIL FIN

B
3
VERTICAL SECTION
NAIL FIN & THROUGH FRAME HYBRID

C
3
VERTICAL SECTION
THROUGH FRAME

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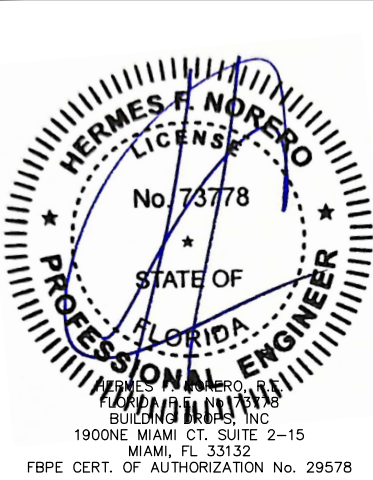
VERTICAL SECTIONS

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BD
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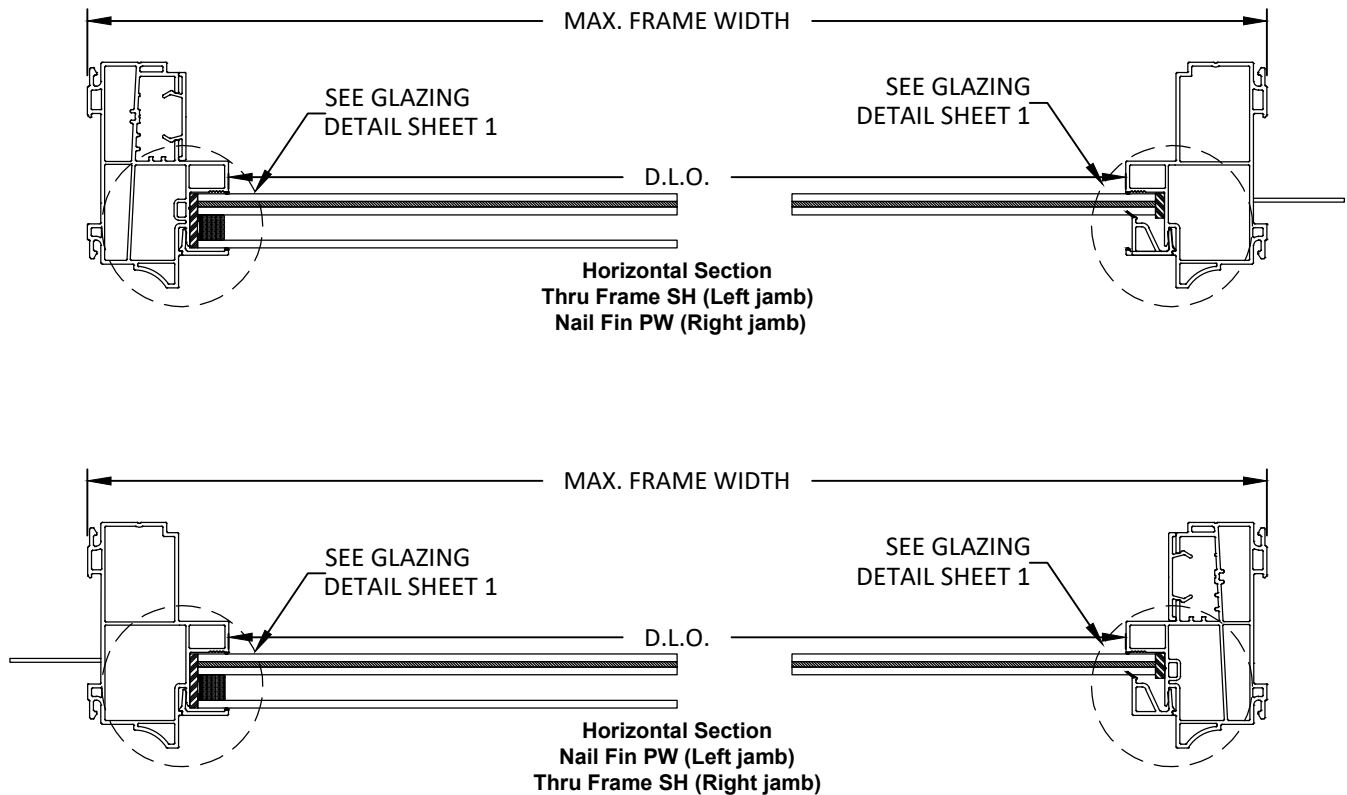
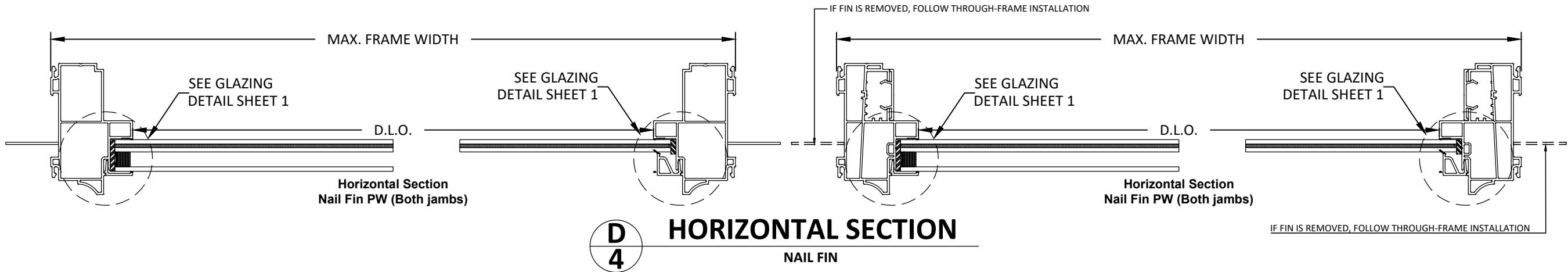
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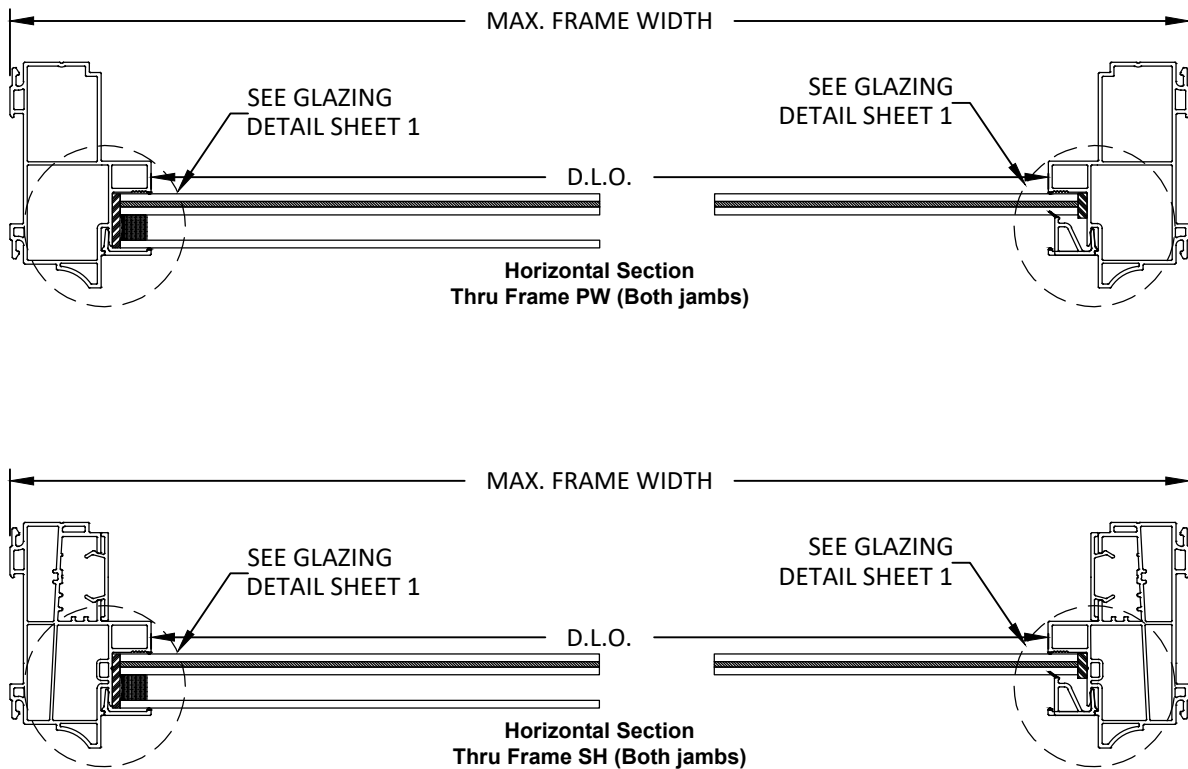


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NOTE:
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E 4 HORIZONTAL SECTION
NAIL FIN & THROUGH FRAME HYBRID



F 4 HORIZONTAL SECTION
THROUGH FRAME

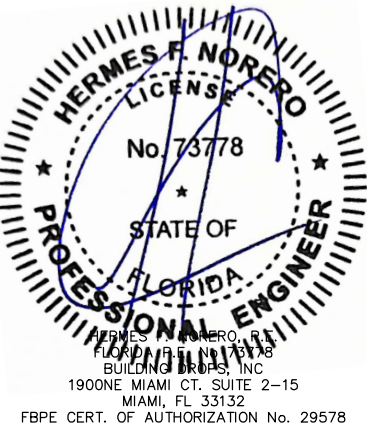


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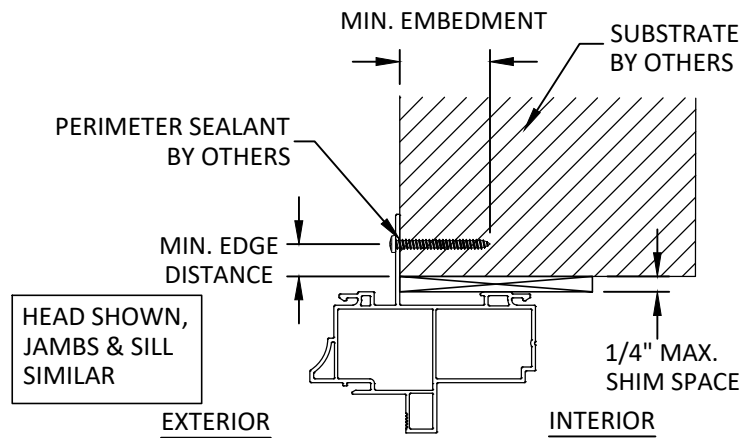
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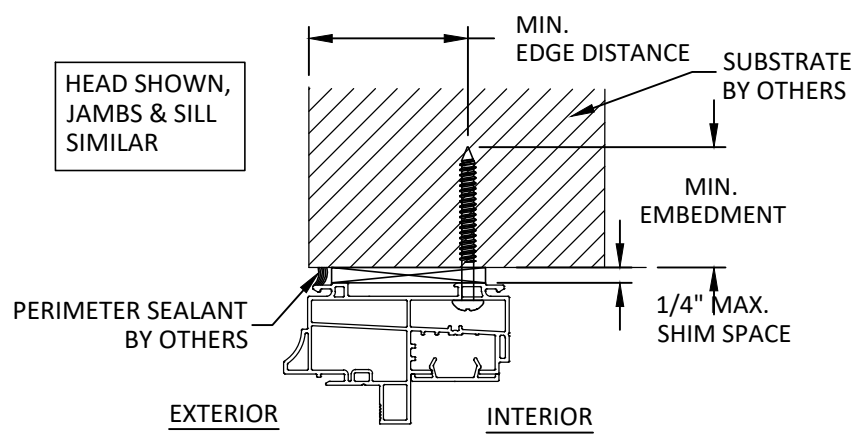


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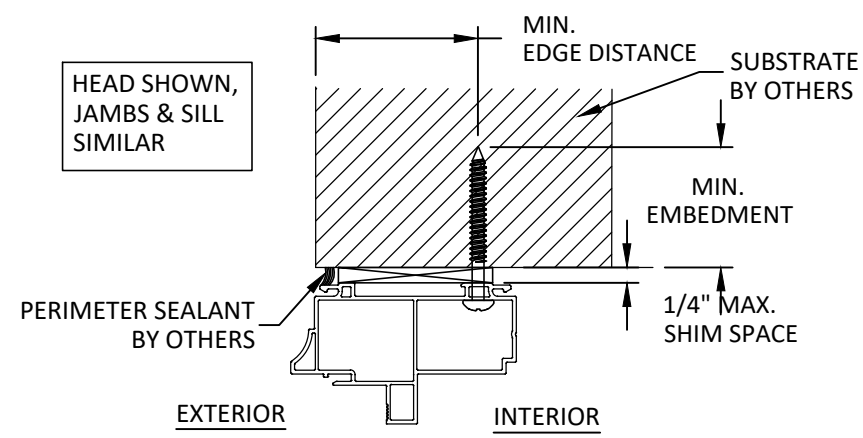
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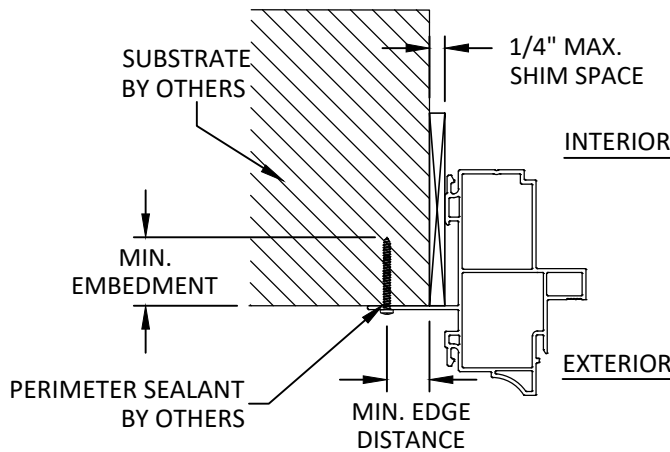
A
5
ANCHOR DETAIL
NAIL FIN (HEAD), PW FRAME



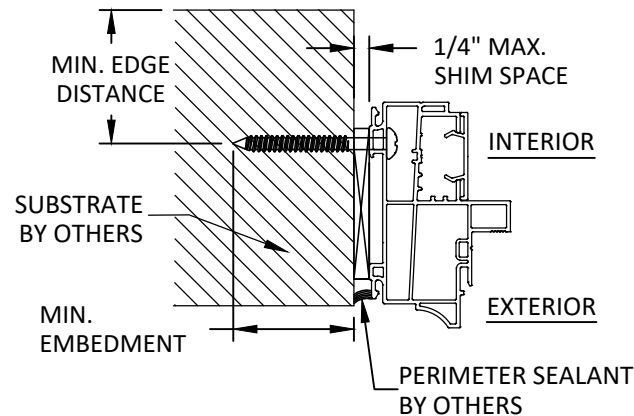
B,C
5
ANCHOR DETAIL
THROUGH FRAME (HEAD), SH JAMB



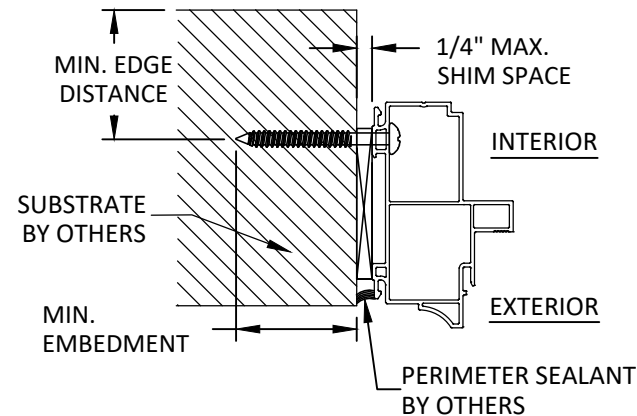
C
5
ANCHOR DETAIL
THROUGH FRAME (HEAD), PW FRAME



D
5
ANCHOR DETAIL
NAIL FIN, PW JAMB



E,F
5
ANCHOR DETAIL
THROUGH FRAME, SH JAMB



F
5
ANCHOR DETAIL
THROUGH FRAME, PW JAMB

INSTALLATION NOTES:

- PER FMA/AAMA 100 FOR NAIL FIN INSTALLATION: APPLY A THICK, CONTINUOUS BEAD OF SEALANT ON THE INTERIOR SURFACE OF THE MOUNTING FIN ON THE HEAD AND JAMBS. AT THE SILL, APPLY A HEAVY, DISCONTINUOUS BEAD OF SEALANT ON THE INTERIOR SURFACE OF THE MOUNTING FIN, LEAVING A 2" VOID WITHIN 4" OF EACH PERIMETER JAMB (TOTAL OF 2 VOIDS PER WINDOW ALONG THE SILL). LOCATE THE SEALANT BEAD ALONG THE INSIDE EDGE OF THE FASTENER SLOTS.
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- 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.
- FOR THROUGH FRAME INSTALLATION, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). FOR NAIL FIN INSTALLATION, SHIM AS REQUIRED TO ACHIEVE SQUARE AND PLUMB 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.
- FOR MASONRY OR CONCRETE OPENINGS, 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.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.
- 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.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
NAILING FIN	WOOD: MIN. SG = 0.55	#8 WOOD SCREW PAN HEAD	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 PAN HEAD SDS	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
THROUGH FRAME	WOOD: MIN. SG = 0.55	#8 & #10 WOOD SCREW PAN HEAD	1.5"	0.75"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#8 & #10 PAN HEAD SDS	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
	CONCRETE: f _c =3000PSI	3/16" ITW TAPCON FLAT HEAD	1.25"	1.75"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	3/16" ITW TAPCON FLAT HEAD	1.25"	1.75"

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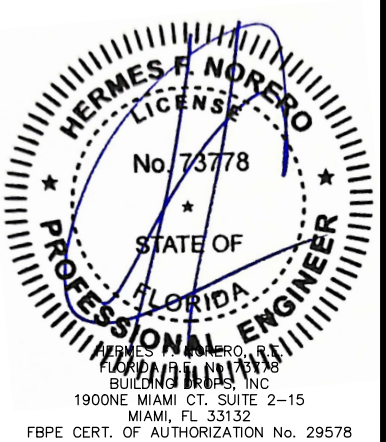
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SHEET:

5

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