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METALNOVA, LLC

NOVA SERIES CASEMENT WINDOW

(HVHZ)(IMPACT)

GENERAL NOTES:

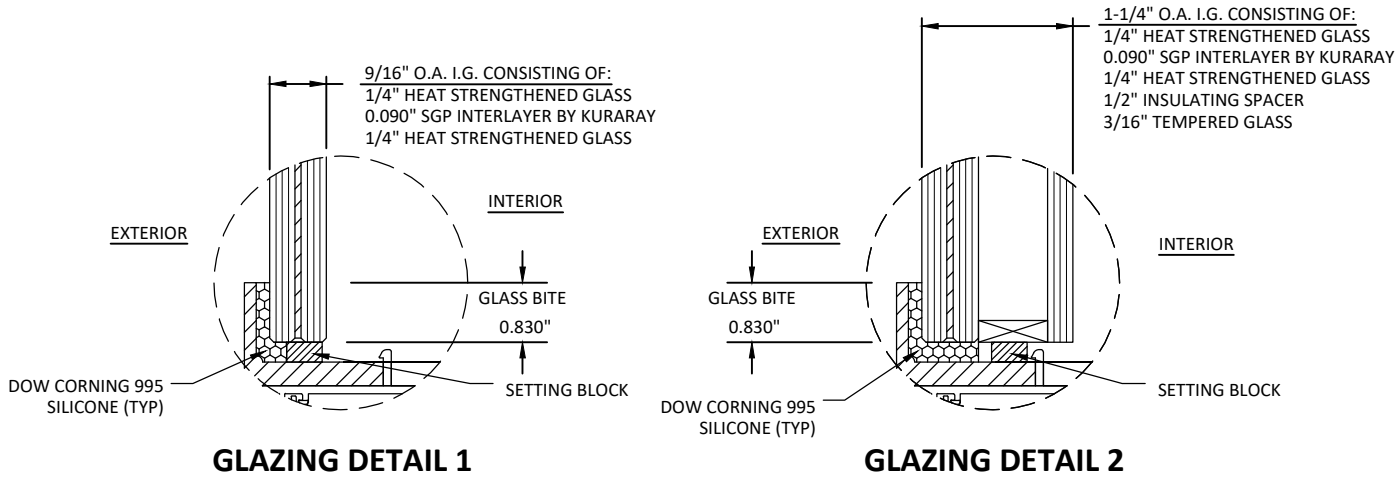
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E1886-13
 - ASTM E1996-14
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X WOOD & STEEL 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. FOR NON-HVHZ AREA, INSTALLATION TO BE REVIEWED BY AHJ (AUTHORITY HAVING JURISDICTION).
- DEVIATION FROM THIS FLORIDA PRODUCT APPROVAL IN HVHZ AREA REQUIRES A ONE TIME APPROVAL FROM MIAMI-DADE COUNTY RER OR AHJ.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW MATERIAL: 304 STAINLESS STEEL
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM COMPONENTS SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT FBC REQUIREMENTS CHAPTER 20.
- CUSTOM SIZES AVAILABLE UPON REQUEST.

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1	GENERAL NOTES & GLAZING DETAIL
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5	INSTALLATION NOTES AND DETAILS
6	COMPONENTS AND BILL OF MATERIALS

DESIGN PRESSURE RATING			
MAX. O.A. PRODUCT SIZE		DESIGN PRESSURE	MISSILE IMPACT RATING
WIDTH	HEIGHT		
SEE SHEET 2			SMI/LMI

GLAZING NOTES:

- GLASS TYPE AND THICKNESS COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, 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.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- SIZES AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES SHOWN HEREIN.



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TITLE: NOVA SERIES
CASEMENT WINDOW
(HVHZ)(IMPACT)
GENERAL NOTES & GLAZING DETAIL

PREPARED BY:

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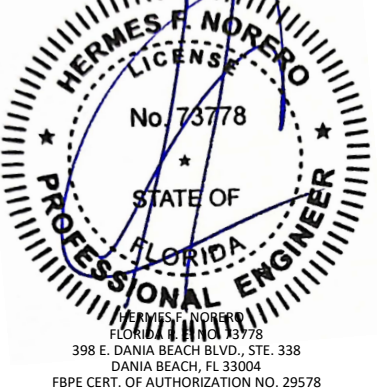
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REMARKS	BY	DATE

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Reason: I am approving this document
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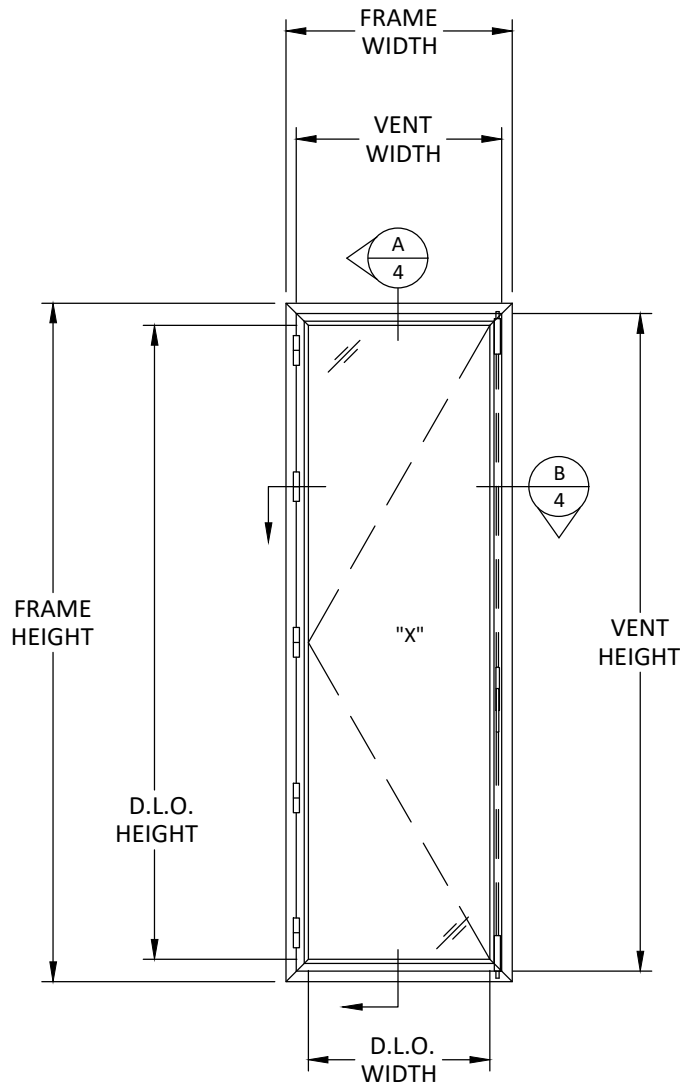
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ELEVATIONS

VENT WIDTH = FRAME WIDTH - 2.5"
VENT HEIGHT = FRAME HEIGHT - 3.75"
D.L.O. WIDTH = FRAME WIDTH - 8"
D.L.O. HEIGHT = FRAME HEIGHT - 8"

DESIGN LOAD CAPACITY - PSF			
3 POINT LOCK CONFIGURATION			
FRAME WIDTH	FRAME HEIGHT	EXT. (+)	INT. (-)
24	72	60.0	60.0
28		60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0
44		60.0	60.0
48		60.0	60.0
52	78	60.0	60.0
56		60.0	60.0
60		60.0	60.0
24		60.0	60.0
28		60.0	60.0
32		60.0	60.0
36	84	60.0	60.0
40		60.0	60.0
44		60.0	60.0
48		60.0	60.0
52		60.0	60.0
56		60.0	60.0
24	90	60.0	60.0
28		60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0
44		60.0	60.0
48		60.0	60.0
52		60.0	60.0

DESIGN LOAD CAPACITY - PSF			
3 POINT LOCK CONFIGURATION			
FRAME WIDTH	FRAME HEIGHT	EXT. (+)	INT. (-)
24	96	60.0	60.0
28		60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0
44		60.0	60.0
48	102	60.0	60.0
24		60.0	60.0
28		60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0
44	108	60.0	60.0
24		60.0	60.0
28		60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0
44	112	60.0	60.0
24		60.0	60.0
28		60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0
44	118	60.0	60.0
24		60.0	60.0
28		60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0
24	120	60.0	60.0
32		60.0	60.0
36		60.0	60.0
40		60.0	60.0

DESIGN LOAD CAPACITY - PSF			
2 POINT LOCK CONFIGURATION			
FRAME WIDTH	FRAME HEIGHT	EXT. (+)	INT. (-)
24	72	40.0	40.0
28		40.0	40.0
32		40.0	40.0
36		40.0	40.0
40		40.0	40.0
44		40.0	40.0
48	78	40.0	40.0
52		40.0	40.0
56		40.0	40.0
60		40.0	40.0
24		40.0	40.0
28		40.0	40.0
32	84	40.0	40.0
36		40.0	40.0
40		40.0	40.0
44		40.0	40.0
48		40.0	40.0
52		40.0	40.0
56	90	40.0	40.0
60		40.0	40.0
24		40.0	40.0
28		40.0	40.0
32		40.0	40.0
36		40.0	40.0
40		40.0	40.0
44		40.0	40.0
48		40.0	40.0
52		40.0	40.0

DESIGN LOAD CAPACITY - PSF			
2 POINT LOCK CONFIGURATION			
FRAME WIDTH	FRAME HEIGHT	EXT. (+)	INT. (-)
24	96	40.0	40.0
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32		40.0	40.0
36		40.0	40.0
40		40.0	40.0
44		40.0	40.0
48	102	40.0	40.0
24		40.0	40.0
28		40.0	40.0
32		40.0	40.0
36		40.0	40.0
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24		40.0	40.0
28		40.0	40.0
32		40.0	40.0

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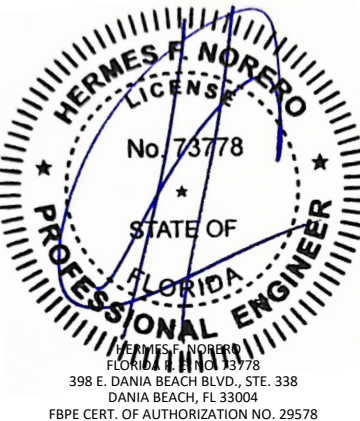
NOVA SERIES
CASEMENT WINDOW
(HVHZ/IMPACT)
ELEVATIONS AND
ANCHOR LAYOUT

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REMARKS	BY	DATE

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CHK. BY: HFN

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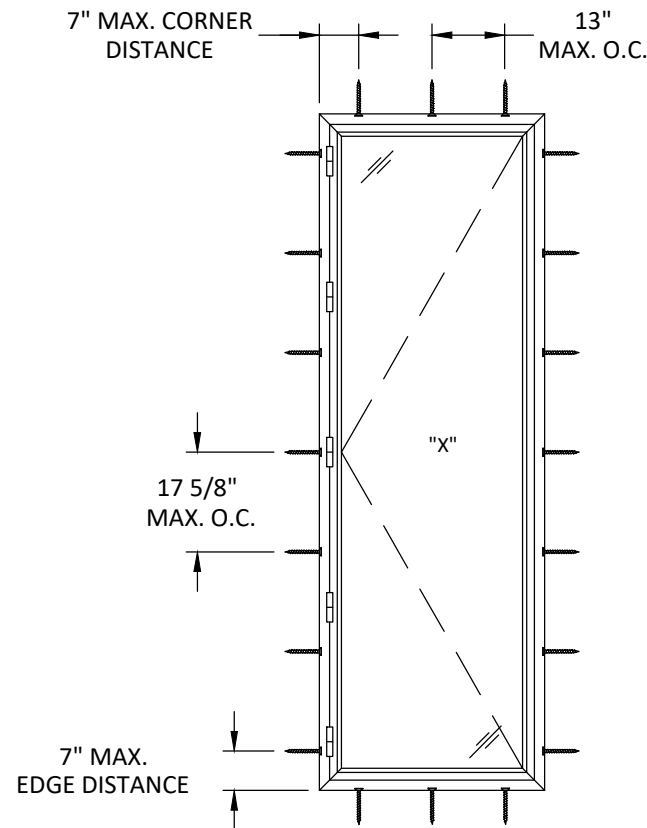
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ANCHOR LAYOUT
THROUGH FRAME
INSTALLATION

THROUGH FRAME ANCHOR

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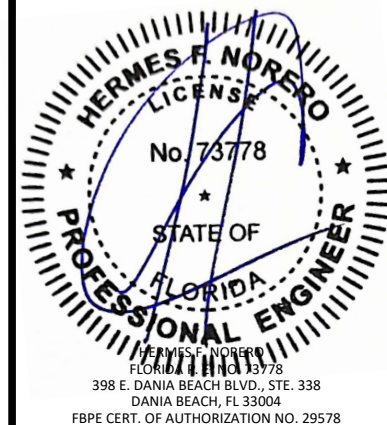
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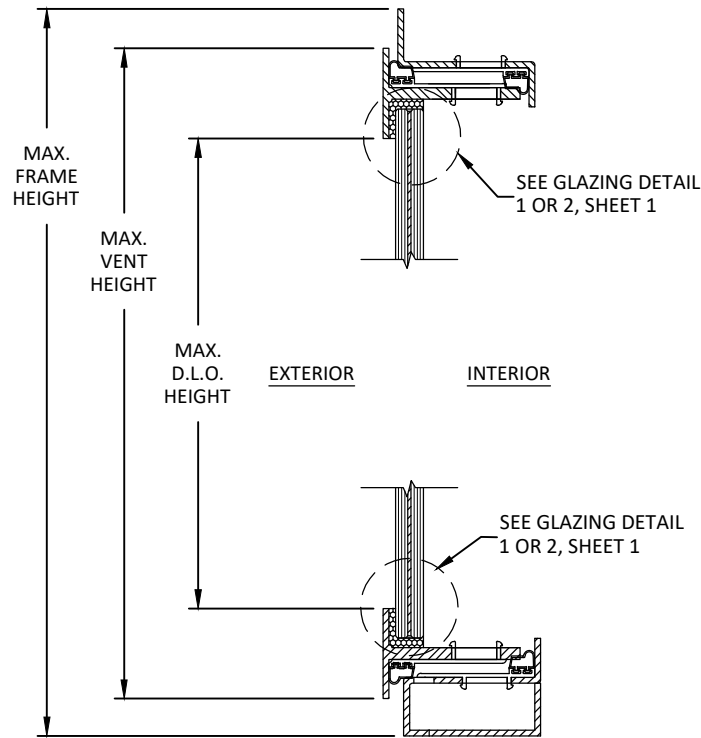
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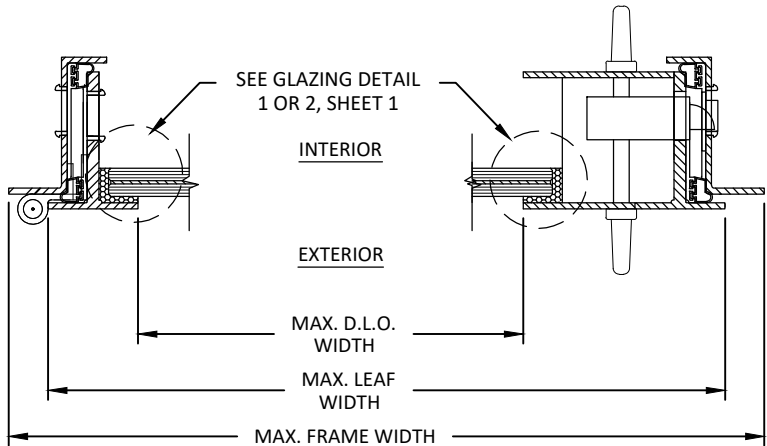
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A
4 VERTICAL SECTION



B
4 HORIZONTAL SECTION

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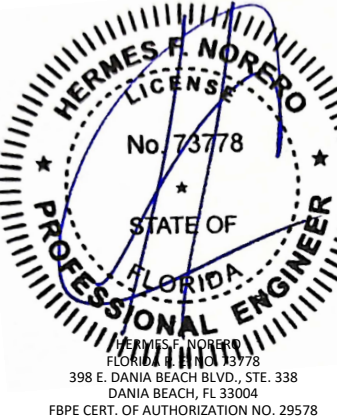
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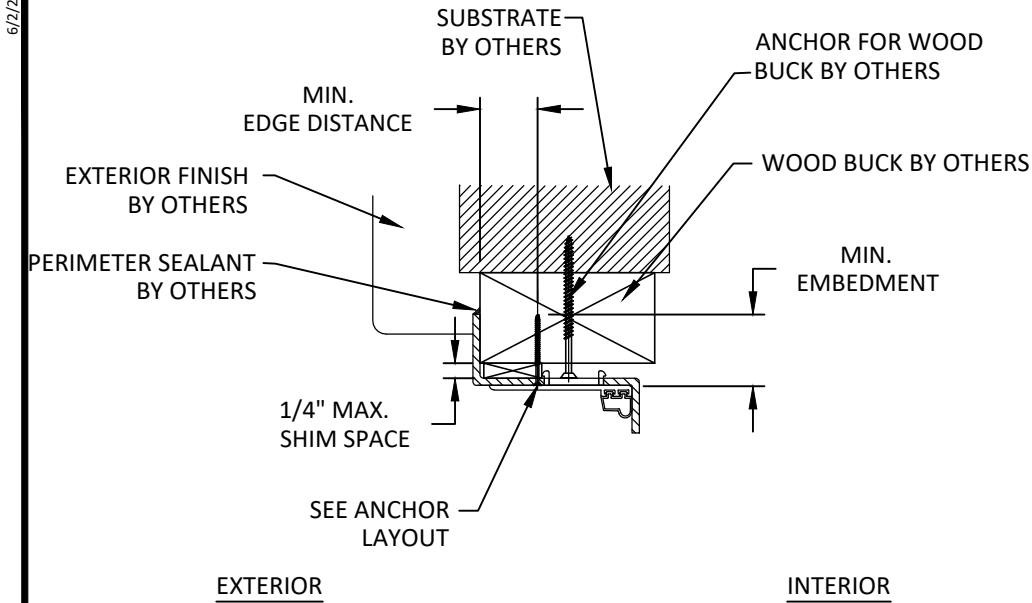
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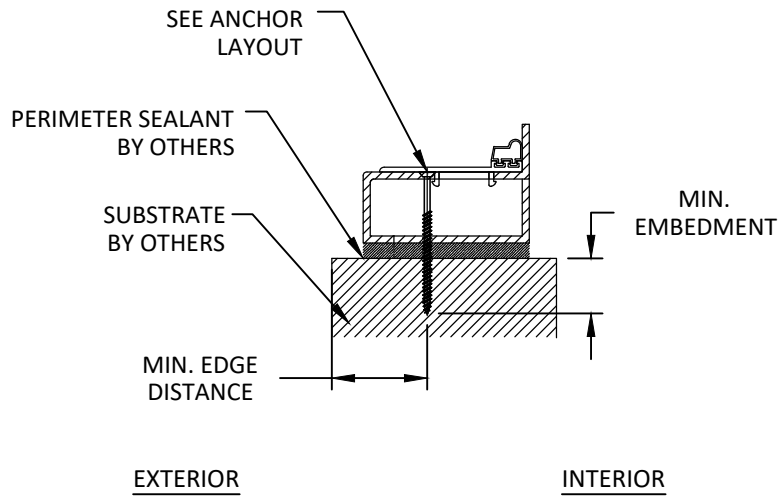
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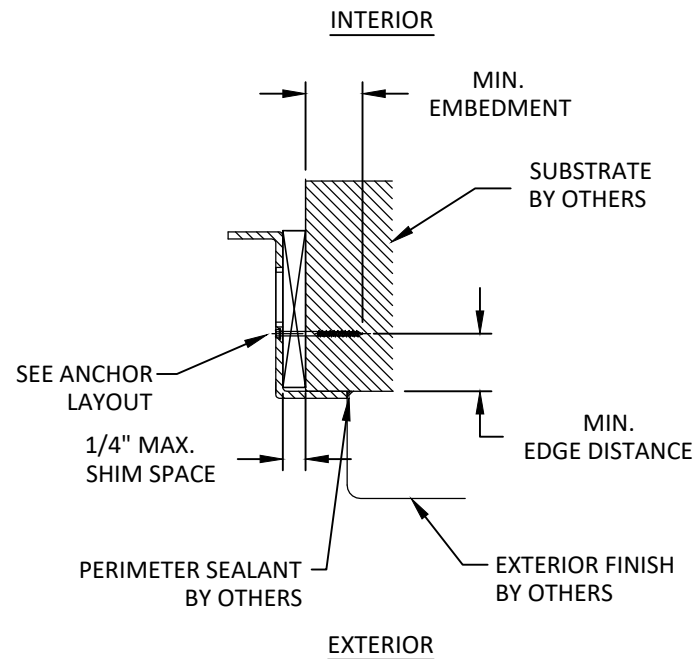
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A
5 **ANCHOR INSTALLATION**
THROUGH FRAME (HEAD)



B
5 **ANCHOR INSTALLATION**
THROUGH FRAME (SILL)



C
5 **ANCHOR INSTALLATION**
THROUGH FRAME (JAMB)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE SPECIFIED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- FOR MASONRY OR CONCRETE OPENINGS A 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.
- 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.
- 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, HIGH IMPACT, NON-METALIC, NON COMPRESSIBLE, NATURALLY DURABLE & PRESERVATIVE TREATED MATERIALS.
- 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
THROUGH FRAME (HEAD/JAMB)*	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
	STEEL: MIN. 18 GAUGE, MIN. FY = 36 KSI, OR ALUMINUM MIN 1/8", 6063-T5	#14 SMS OR SELF DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND METAL	0.50"
THROUGH FRAME (SILL)	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	1.00"
	STEEL: MIN. 18 GAUGE, MIN. FY = 36 KSI, OR ALUMINUM MIN 1/8", 6063-T5	#14 SMS OR SELF DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND METAL	0.50"
	CONCRETE (MIN. F'C= 2000 PSI) OR CMU (PER ASTM C90)	1/4" ITW TAPCON	1.50"	2.50"

*NOTE:
FOR MASONRY OR CONCRETE SUBSTRATE ON HEAD AND JAMBS, INSTALLATION ANCHORS SHALL BE INSTALLED INTO 2X P.T WOOD BUCKS, ANCHORED TO THE STRUCTURE BY OTHERS.

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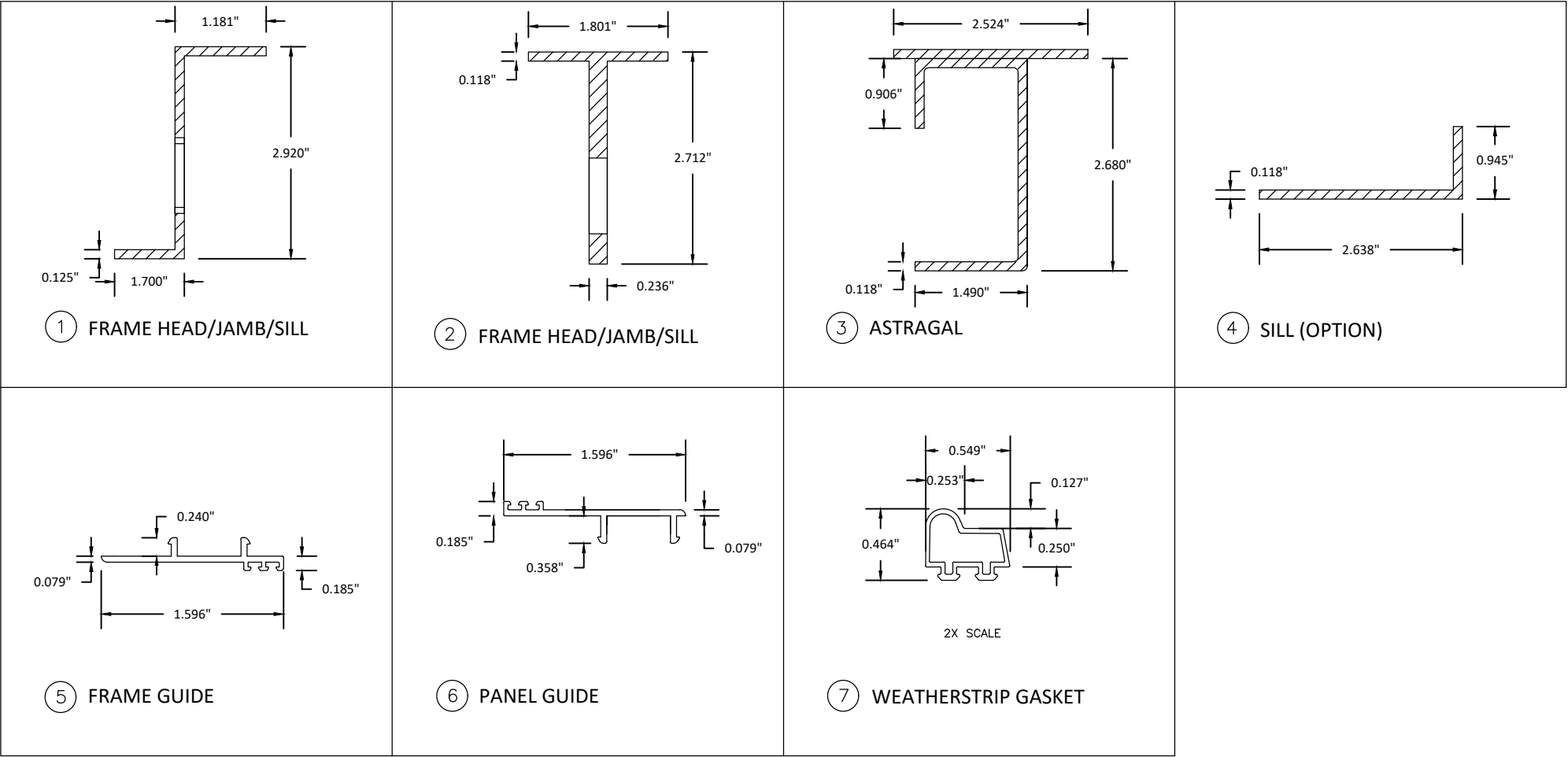
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BILL OF MATERIALS						
ITEM	PART No.	QUANTITY	DESCRIPTION	MATERIAL	LOCATION	MANUFACTURER
1	N001	4	FRAME HEAD/JAMB/RESIDENTIAL SILL	S.S.	DOOR FRAME	METALNOVA
2	N002	4	PANEL HEAD/JAMB/SILL	S.S.	DOOR PANEL	METALNOVA
3	N003	1	ASTRAGAL	S.S.	INACTIVE LEAF PANEL JAMB	METALNOVA
4	N004	1	FRAME SILL	S.S.	DOOR FRAME	METALNOVA
5	E055	1	FRAME GUIDE	PVC	FRAME PERIMETER	METALNOVA
6	E056	1	PANEL GUIDE	PVC	PANEL PERIMETER	METALNOVA
7	E001	AS REQ'D.	WEDGE GASKET	EPDM	FRAME JAMB/ASTRAGAL/FRAME PANEL	METALNOVA
8	895/995	CONTINUOUS	STRUCTURAL SILICONE	SILICONE	PERIMETER GLASS TO METAL	PECORA OR DOW CORNING
9	N005	6/VENT	6" BUTT HINGES (3 PAIR)	--	PANEL AND FRAME JAMBS	METALNOVA
10	N/A	2 EA. LITE OF GLASS	1/4" X 1/2" X 3" LG. SETTING BLOCK	EXTRUDED SILICONE	@ 6" FROM ENDS	GENERIC
11	N/A	1/VENT	OPERATING HANDLE	ALUMINUM	EACH PANEL JAMB	PASINI
12	1025	1	TRANSMISSION MOVEMENT DEVISE	ZAMA/S.S.	PANEL JAMB ASTRAGAL SIDE ONLY	GIESSE
13	N/A	1/VENT	3 POINT LOCK SYSTEM	ZINC/IRON/S.S.	PANEL JAMB	GIESSE
14	03	2/VENT	FLUSH BOLT (HEAVY DUTY)	S.S.	PANEL JAMB AT TOP & BOTTOM	METALNOVA
15	N006	2	FLUSHBOLT STRIKE PLATE (4" LONG)	S.S.	FLUSHBOLT STRIKE PLATE	METALNOVA
16	N007	1	STRIKE PLATE FOR LOCK SYSTEM	S.S.	ASTRAGAL	METALNOVA



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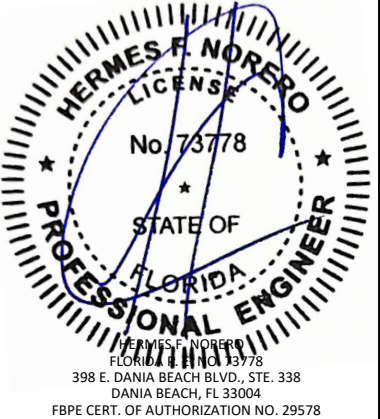
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