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SIERRA PACIFIC WINDOWS

ENERGY SAVER PATIO INSWING DOOR

(WZ3) (IMPACT)

GENERAL NOTES:

1.

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:
 - ASTM E1886-19
 - ASTM E1996-20
 - ASTM E330-14
2.

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.
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. FOR NON-HVHZ AREA, INSTALLATION TO BE REVIEWED BY AHJ (AUTHORITY HAVING JURISDICTION).
5.

APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN WIND ZONE 3 OR LESS.
6.

APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND ZONE 4.
7.

WINDOW FRAME MATERIAL: VINYL, WOOD, AND ALUMINUM ALLOY
8.

GLASS MEETS THE REQUIREMENTS OF ASTM E 1300. SEE SHEET 1 FOR GLAZING DETAILS.
9.

DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM COMPONENTS SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT FBC REQUIREMENTS CHAPTER 20.
10.

WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES IN ACCORDANCE WITH THE CURRENT FBC REQUIREMENTS CHAPTER 23.
11.

CUSTOM SIZES AVAILABLE UPON REQUEST.

INSTALLATION NOTES:

1.

ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE SPECIFIED.
2.

INSTALLATION ANCHOR FROM HINGE THOUGH FRAME INTO SUBSTRATE WITH APPROPRIATE EMBEDMENT, EDGE DISTANCE AND ANCHOR TYPE. REFER TO ANCHOR SCHEDULE ON SHEET 5.
3.

THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
4.

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. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
5.

INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±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.
6.

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.
7.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
8.

INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9.

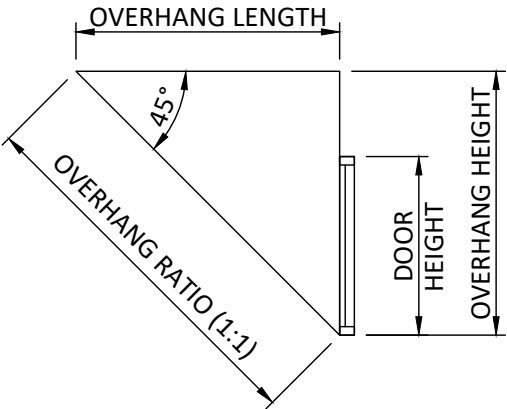
FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
10.

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.

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MAX. OVERALL SIZE		CONFIG.	LOCK HARDWARE	DESIGN PRESSURE (PSF)	MISSILE IMPACT RATING
WIDTH	HEIGHT				
75.00"	98.5"	X X	SURFACE BOLT (INACTIVE LEAF)	+50/-50 PSF*	LARGE & SMALL MISSILE IMPACT
			EMTEK TUBULAR OR EMTEK MORTISE (ACTIVE LEAF)		
			2 PT MULTI-POINT LOCK (INACTIVE LEAF)		
			5 PT MULTI-POINT LOCK (ACTIVE LEAF)		
37.75"	98.5"	X	5 PT MULTI-POINT LOCK		
			EMTEK MORTISE		
			EMTEK TUBULAR		

*NOTE: NOT RATED FOR WATER INFILTRATION



NOTE: WHEN INSTALLED AT A LOCATION PROTECTED BY AN OVERHANG SUCH THAT:
OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥1.0,
WATER INFILTRATION REQUIREMENT DOES NOT NEED TO BE MET



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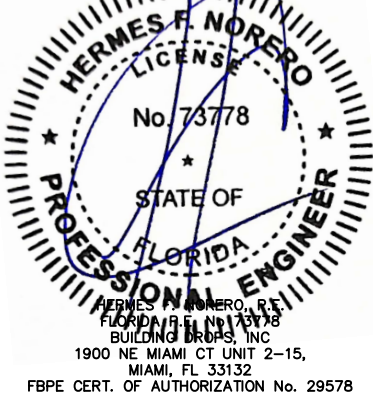
TITLE:
ENERGY SAVER PATIO INSWING DOOR
(WZ3) (IMPACT)
GENERAL NOTES, INSTALLATION NOTES & GLAZING DETAIL

PREPARED BY:
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REMARKS	BY	DATE

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Reason: I am approving this document
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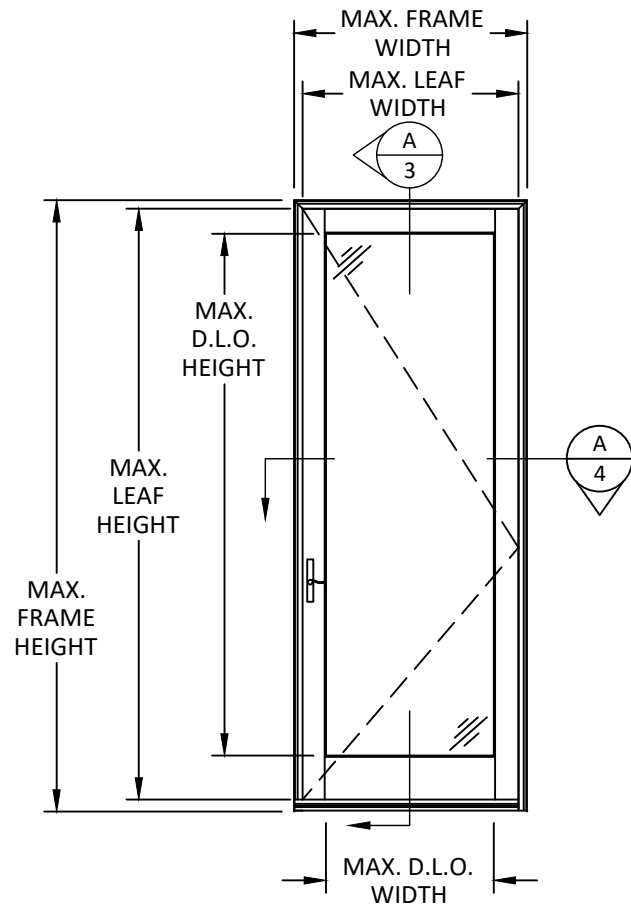
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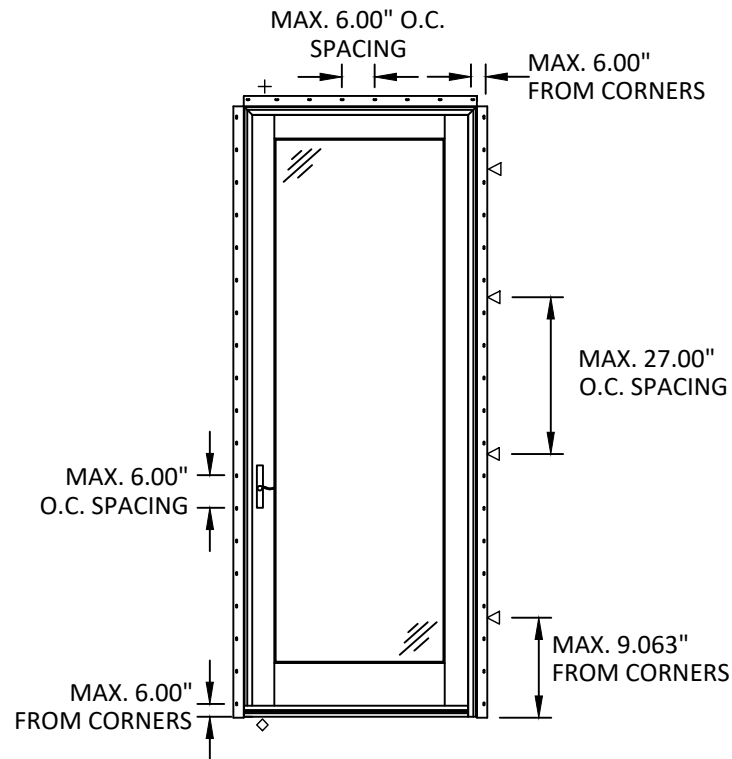
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SHEET
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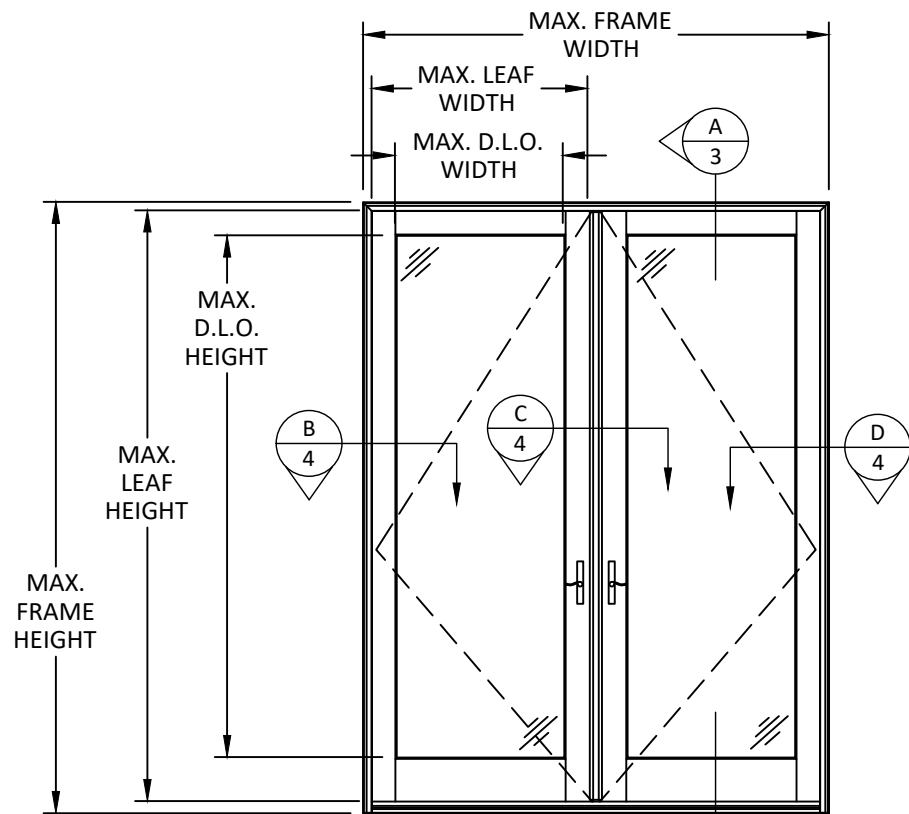
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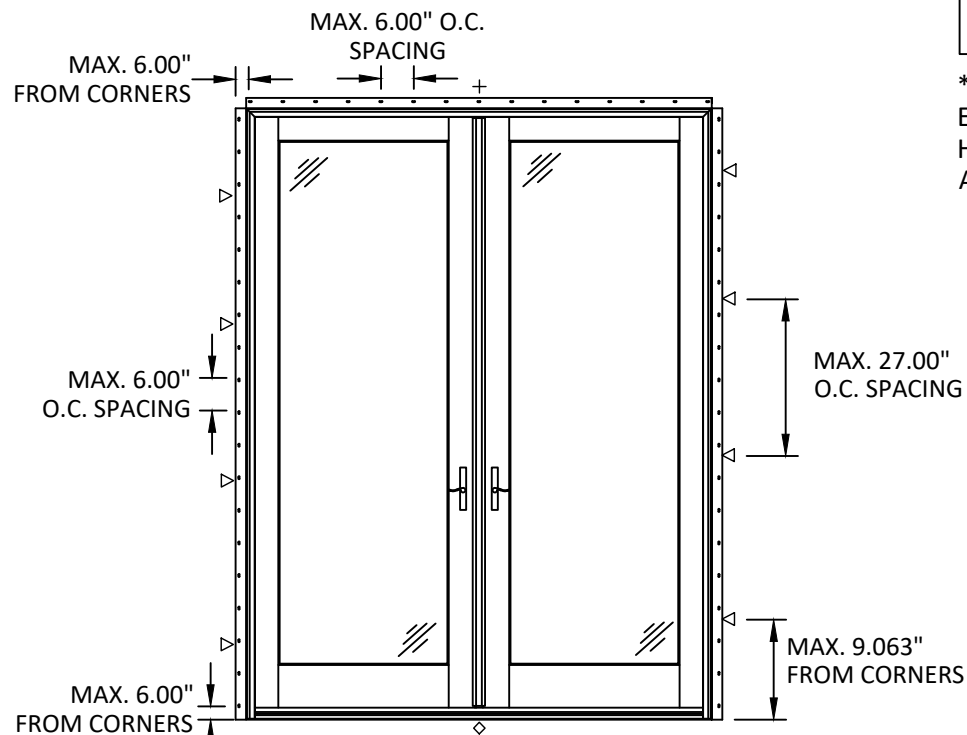
ANCHOR LAYOUT
NAIL FIN

DOOR SIZING LEGEND
SINGLE DOOR MAX. DIMENSIONS: LEAF AND D.L.O. WIDTH: • LEAF WIDTH: FRAME WIDTH - 1.875" • D.L.O. WIDTH: FRAME WIDTH -10.75"
LEAF AND D.L.O. HEIGHT: • LEAF HEIGHT: FRAME HEIGHT - 2.5" • D.L.O. HEIGHT: FRAME HEIGHT -14.375"
DOUBLE DOOR MAX. DIMENSIONS: LEAF AND D.L.O. WIDTH: • LEAF WIDTH: FRAME WIDTH /2 - 1.563" • D.L.O. WIDTH: FRAME WIDTH /2 -10.438"
LEAF AND D.L.O. HEIGHT: • LEAF HEIGHT: FRAME HEIGHT - 2.5" • D.L.O. HEIGHT: FRAME HEIGHT -14.375"
DOOR ANCHOR LEGEND
◁ = ONE (1) ANCHOR THROUGH EACH HINGE
◇ = TWO (2) ANCHORS THROUGH SHOOTBOLT STRIKE PLATE
+ = THREE (3) ANCHORS THROUGH SHOOTBOLT STRIKE PLATE

*MIN. EDGE DISTANCES AND MIN. EMBEDMENT FOR INSTALLATION THROUGH HINGES AND SHOOTBOLT SEE THROUGH FRAME ANCHOR SCHEDULE ON SHEET 5



ELEVATION



ANCHOR LAYOUT
NAIL FIN



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ENERGY SAVER PATIO INSWING
DOOR
(WZ3) (IMPACT)
ELEVATION & ANCHORS LAYOUTS

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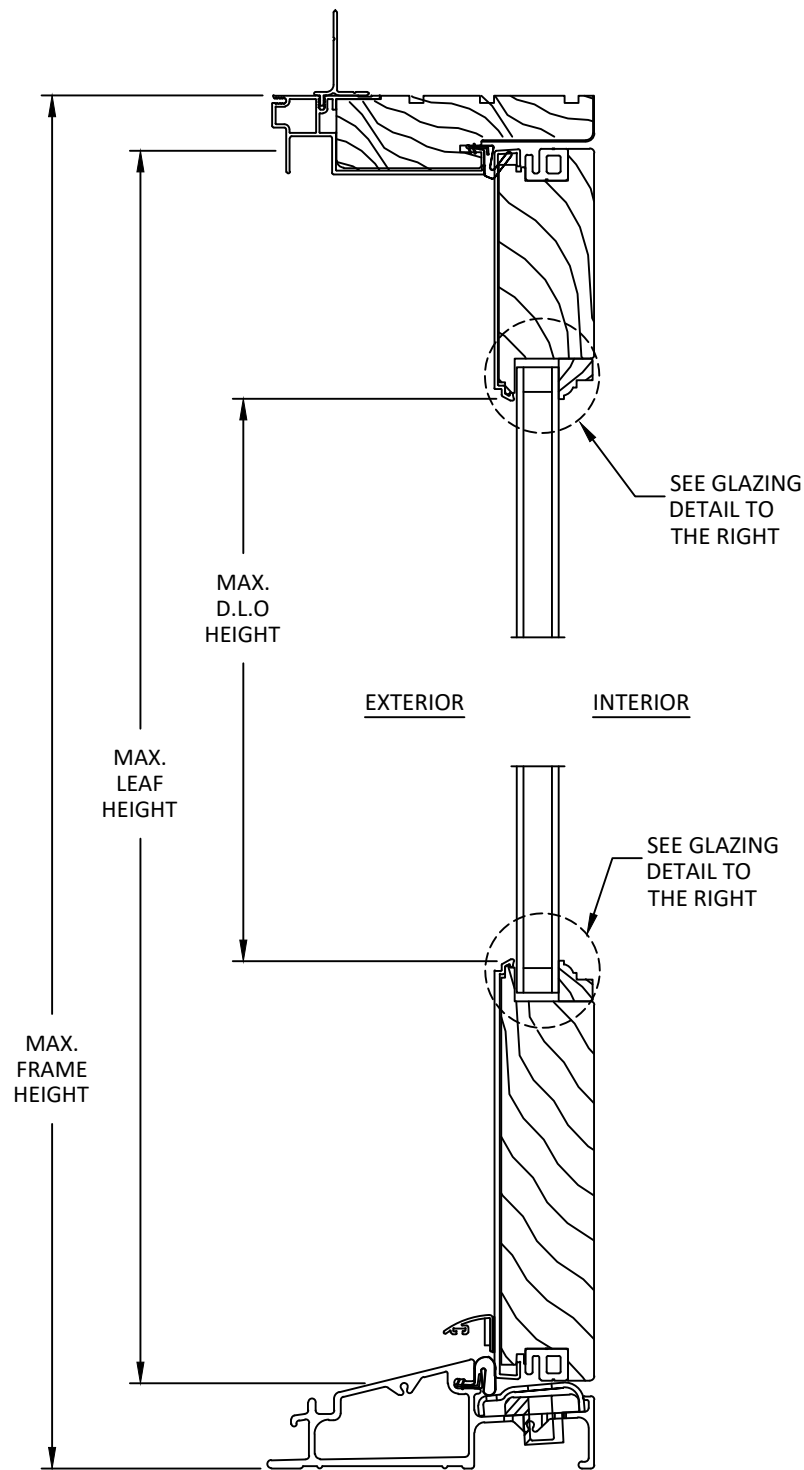
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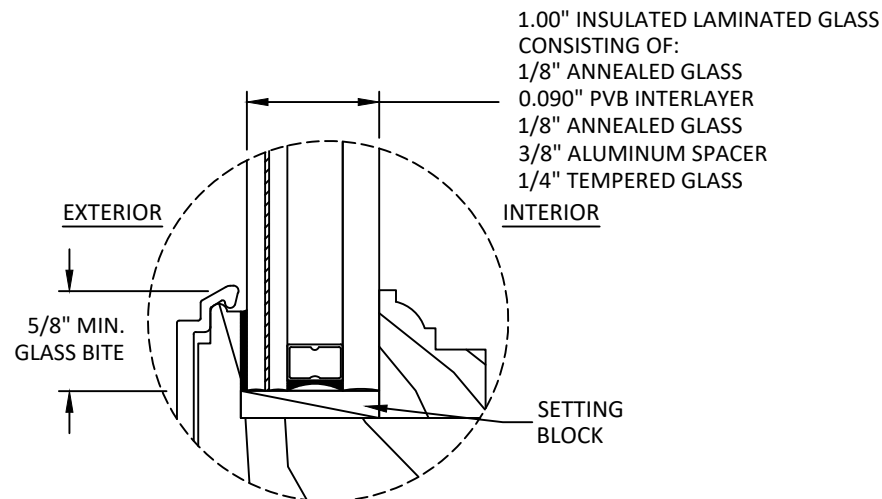


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A
3 **VERTICAL SECTION**
DOUBLE AND SINGLE DOOR



- GLAZING NOTES:
1. GLASS TYPE AND THICKNESS COMPLIES 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.
 2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
 4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS SHOWN ON ELEVATIONS.



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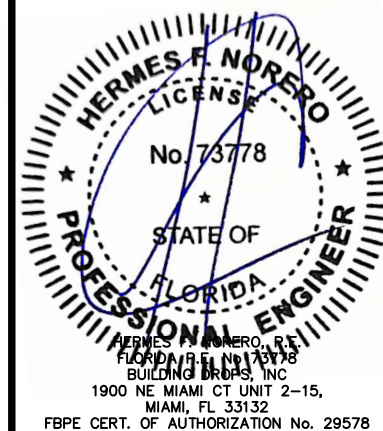
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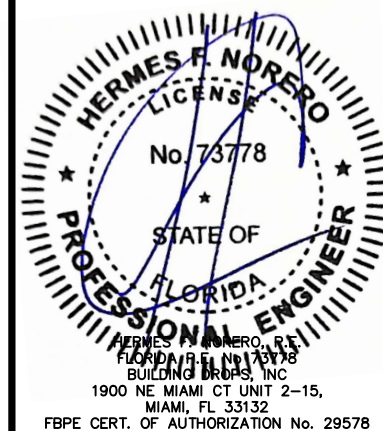
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DOOR
(WZ3) (IMPACT)
HORIZONTAL SECTIONS

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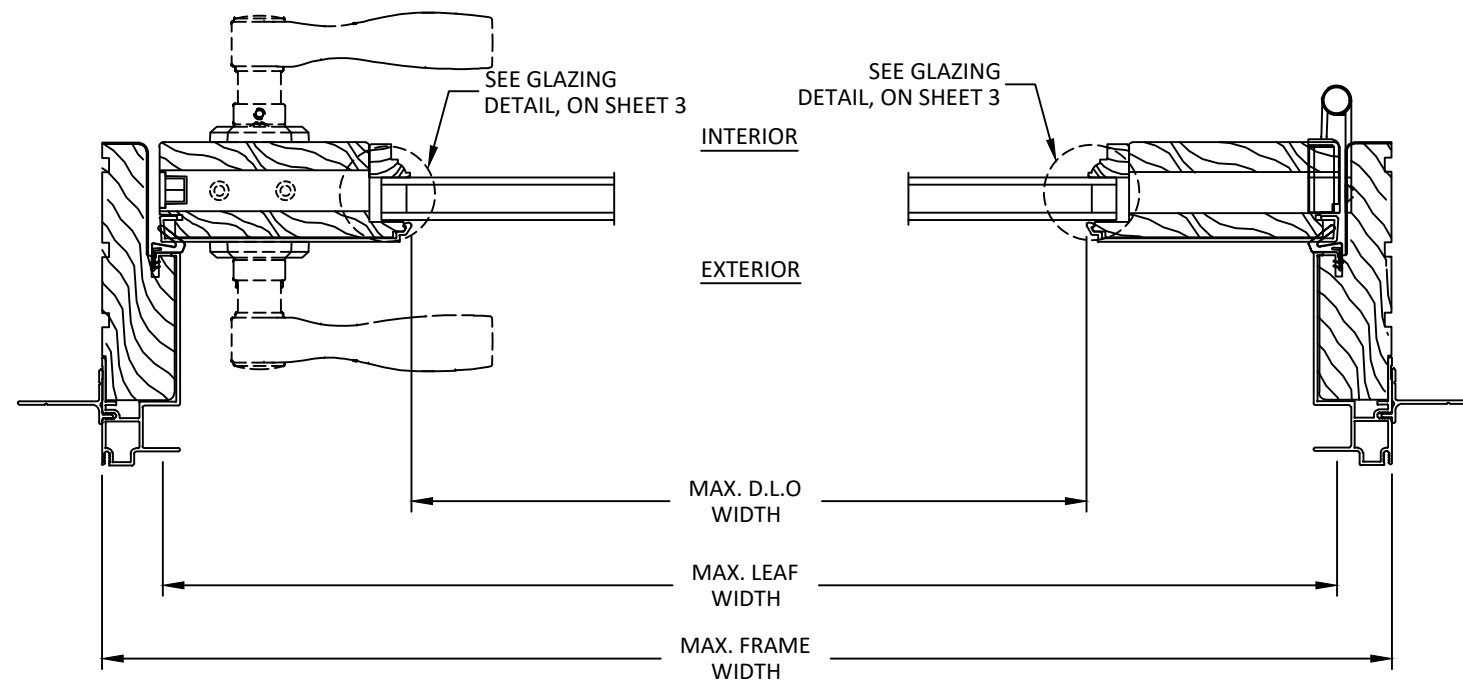
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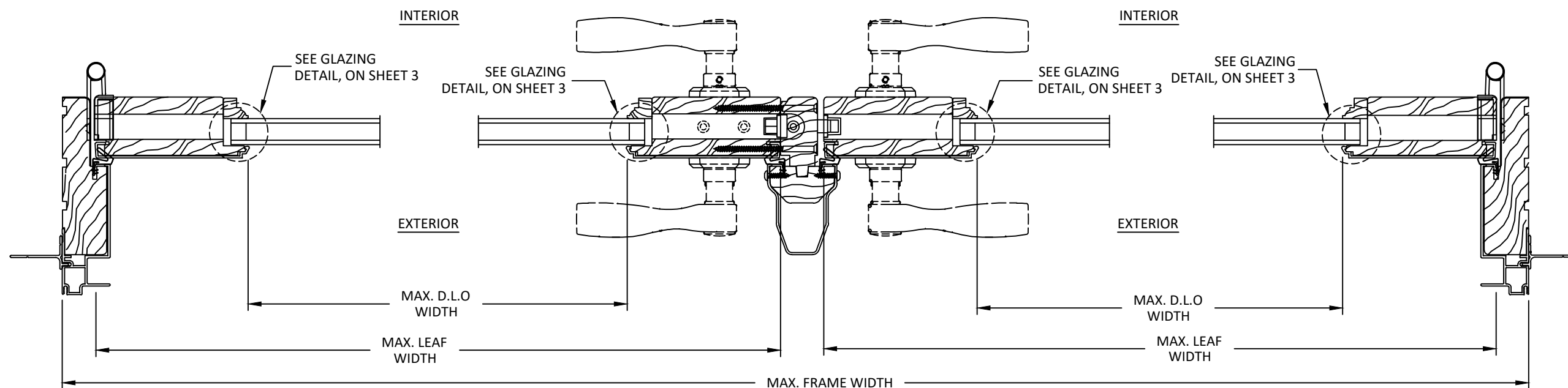
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A
4 HORIZONTAL SECTION
JAMB INSWING

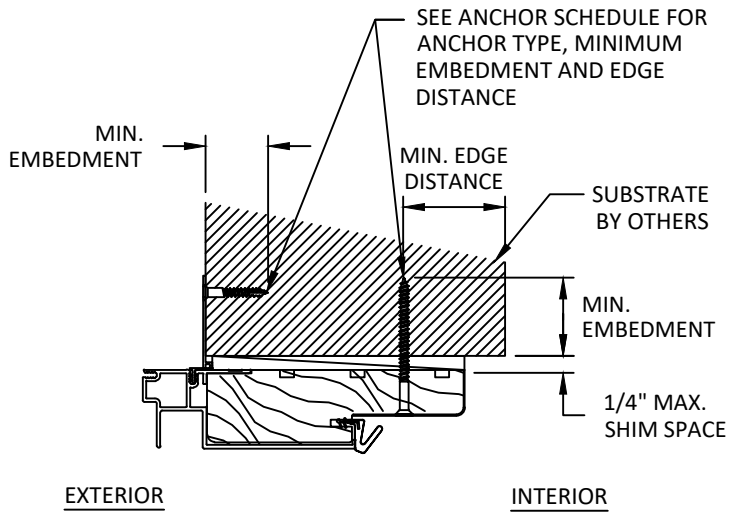


B
4 HORIZONTAL SECTION
JAMB INSWING

C
4 HORIZONTAL SECTION
ASTRAGAL

D
4 HORIZONTAL SECTION
JAMB INSWING

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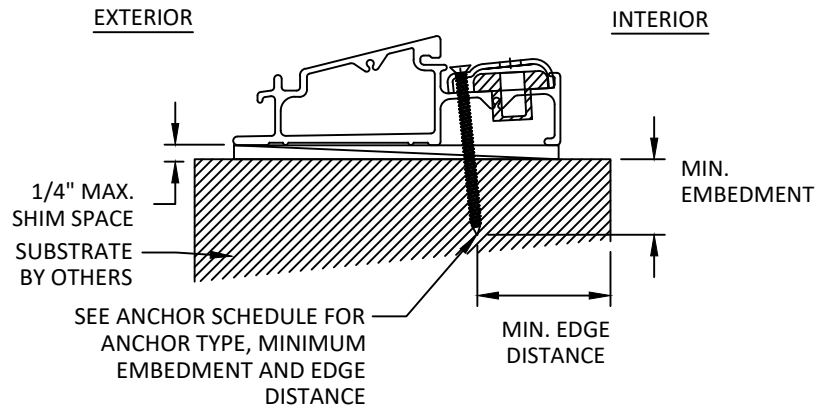


A
5

ANCHOR DETAIL
NAIL FIN (HEAD)

NOTE:

- JAMB HAS SIMILAR DETAIL.



B
5

ANCHOR DETAIL
THROUGH FRAME (SILL)

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
NAIL FIN	WOOD: MIN. SG=0.55	#8 WOOD SCREW	1.5"	0.75"
	METAL: 16 GAUGE STEEL, MIN. Fy=33KSI	#8 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
	CONCRETE: f _c =3000PSI	3/16" ITW TAPCON	1"	2.25"
	MASONRY: CMU PER ASTM C90 f _c =2000PSI	3/16" ITW TAPCON	1"	2.00"
THROUGH FRAME	WOOD: MIN. SG=0.55	#10 WOOD SCREW	1.5"	0.75"
	METAL: 16 GAUGE STEEL, MIN. Fy=33KSI	#10 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.50"
	CONCRETE: f _c =3000PSI	3/16" ITW TAPCON	1"	2.25"
	MASONRY: CMU PER ASTM C90 f _c =2000PSI	3/16" ITW TAPCON	1"	2.00"



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DOOR
(WZ3) (IMPACT)
ANCHOR DETAILS & SCHEDULE

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