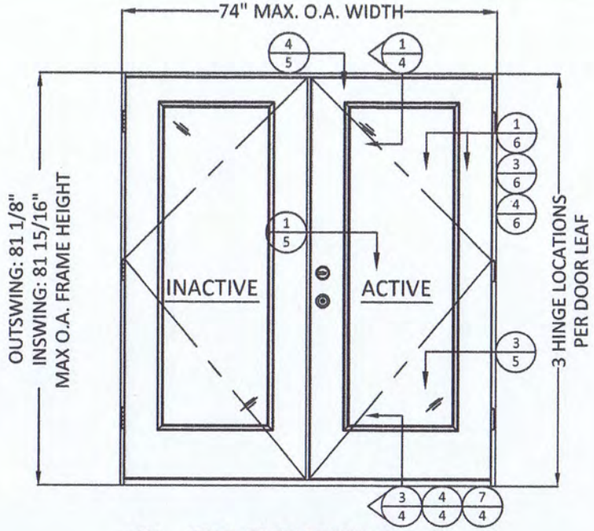
JELD-WEN WINDOWS & DOORS

DESIGN PRO / SMOOTH PRO FULL LITE
IMPACT APPROVED

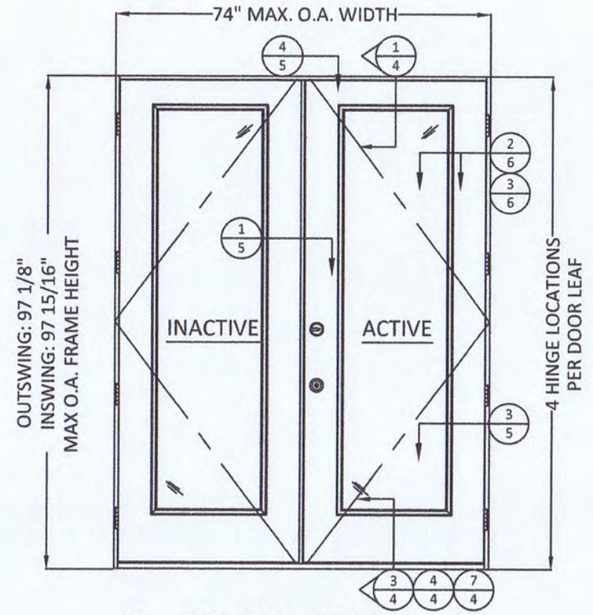
GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT INTERNATIONAL RESIDENTIAL CODE (IRC), INTERNATIONAL BUILDING CODE (IBC), AND TEXAS REVISIONS, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   - ASTM E283-04
   - ASTM E283-04
   - ASTM E330-02
   - ASTM E1886-05
   - ASTM E1996-06
   - AAMA 1304-02
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY OR 2X 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. 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.
4. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE FOR WIND ZONE 3 OR LESS.
5. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS.
6. FULL LITE APPROVAL COVERS USE OF FRACTIONAL GLAZING, INCLUDING INTERNAL GRID, BLINDS BETWEEN GLASS, DECORATIVE AND EXTERNAL WROUGHT IRON. RADIUS (SHAPED) LITES ARE QUALIFIED FOR 6'-8" DOORS AT DP +/-50 PSF ONLY.
7. NOTE: AFCO H-497 SILL MEETS WATER INFILTRATION AT WATER TEST PRESSURE (WTP) OF 9.0 PSF. REMAINING SILLS NOT RATED FOR WATER INFILTRATION. IF AUTHORITY HAVING JURISDICTION REQUIRES THAT PRODUCT MEETS THIS REQUIREMENT, PRODUCT SHALL BE USED WHEN INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥ 1.0

TABLE OF CONTENTS		
SHEET	**REVISION**	**SHEET DESCRIPTION**
1	A	TYPICAL ELEVATIONS, DESIGN PRESSURES, AND GENERAL NOTES
2	A	TYPICAL ANCHOR LAYOUTS AND NOTES
3	-	OPTIONAL 2X BUCK ANCHORING DETAILS
4	-	VERTICAL ASSEMBLIES
5	A	HORIZONTAL ASSEMBLIES
6	A	GLAZING DETAILS
7	-	WOOD SUBSTRATES
8	-	CONCRETE SUBSTRATES
9	A	COMPONENTS & BILL OF MATERIALS



1/1 **TYP. ELEVATION 1**
6'-8" DOOR HEIGHT



2/1 **TYP. ELEVATION 2**
8'-0" DOOR HEIGHT

NOTE:
INACTIVE AND ACTIVE DOOR PANEL ORIENTATION IS INTERCHANGEABLE.

CONFIGURATION	MAX. OVERALL NOMINAL SIZE		DESIGN PRESSURE (PSF)				MISSILE IMPACT RATING
	WIDTH	HEIGHT	INSWING		OUTSWING		
			POS.	NEG.	POS.	NEG.	
XX	6'-0"	6'-8"	50*	50	50*	50	LMI & SMI
XX RADIUS	6'-0"	6'-8"	50*	50	50*	50	LMI & SMI
XX	6'-0"	8'-0"	50*	50	50*	50	LMI & SMI

*SEE GENERAL NOTE 7, SHEET 1, FOR WATER INFILTRATION APPROVED SILLS.

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TITLE: *DESIGN PRO/SMOOTH PRO FULL LITE IMPACT APPROVED*
TYPICAL ELEVATIONS, DESIGN PRESSURES, AND GENERAL NOTES

3737 LAKEPORT BLVD.,
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JELD-WEN WINDOWS & DOORS

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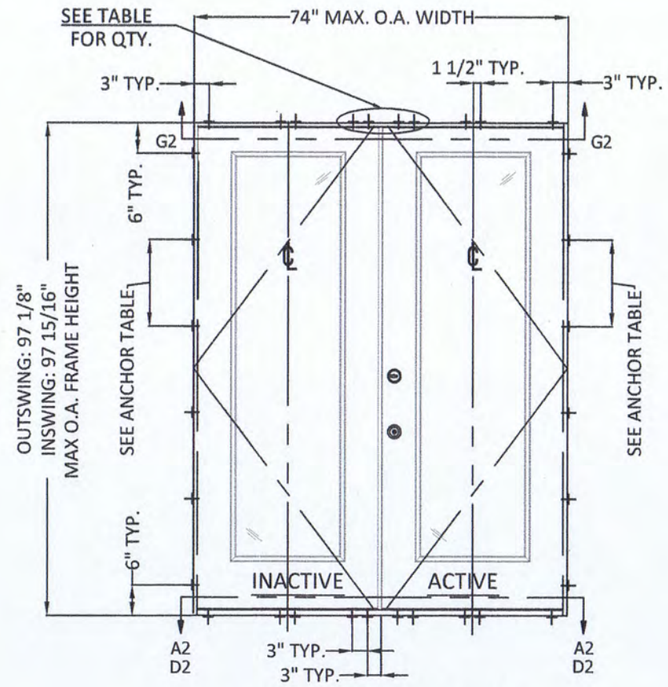
STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14
DWG. BY: GL
CHK. BY: SS
SCALE: NTS
DWG. #: A010927
SHEET: 1 OF 9

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. 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.
3. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
4. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING, AND SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. 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.
6. FOR 2X STUD CONSTRUCTION, ANCHORING OF THESE PRODUCTS SHALL BE THE SAME AS FOR 2X BUCK CONCRETE/MASONRY CONSTRUCTION.
7. 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.
8. SEE SHEETS 7 AND 8 FOR MORE DETAILS OF THE INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS, EDGE DISTANCES, EMBEDMENTS, AND SHIM SPACING.
9. OPTIONALLY, ANCHORS CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

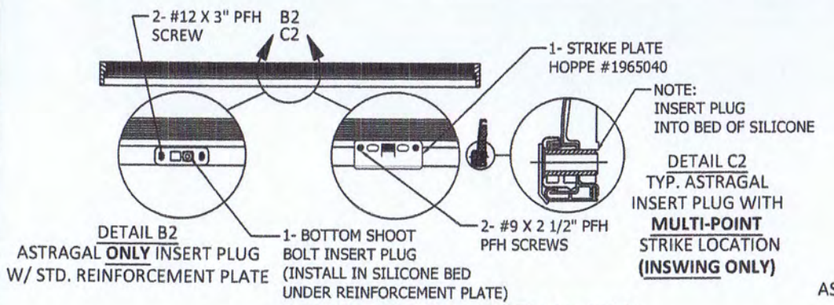


1/2 TYP. ANCHOR LAYOUT

6'-8" OR 8'-0" DOOR HEIGHT

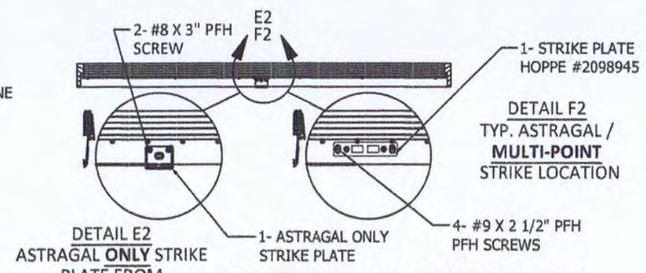
ANCHOR TABLE								
ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	6'8" DOORS		8'0" DOORS	
					MAX. O.C. SPACING AT JAMBS	# OF ANCHORS AT HEAD/SILL CLUSTERS	MAX. O.C. SPACING AT JAMBS	# OF ANCHORS AT HEAD/SILL CLUSTERS
WOOD SCREW	#10	2X WOOD BUCK OR FRAMING	1-1/2"	3/4"	17-1/2"	4	17-1/4"	4
ITW TAPCON	3/16"	CONCRETE/CMU	1-1/4"	2-1/2"	17-1/2"	4	17-1/4"	4
ELCO ULTRACON	1/4"	CONCRETE/CMU	1-3/8" - CONC. 1-1/4" - CMU	1"	17-1/2"	4	17-1/4"	4
ITW TAPCON	3/16"	CONCRETE/CMU	1-1/4"	1"	11-5/8"	8	14-3/8"	6

NOTE:
INACTIVE AND ACTIVE DOOR PANEL ORIENTATION IS INTERCHANGEABLE.



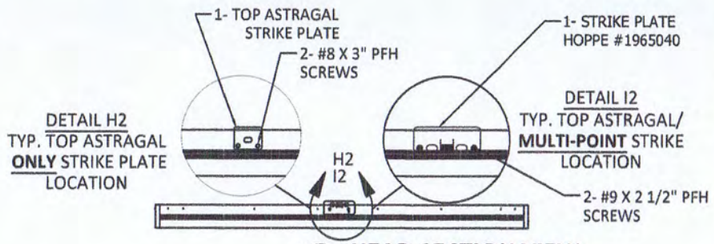
A/2 INSWING SILL SECTION VIEW

SEE DETAIL B2 OR C2 ABOVE



D/2 OUTSWING SILL SECTION VIEW

SEE DETAIL E2 OR F2 ABOVE



G/2 HEAD SECTION VIEW

INSWING SHOWN OUTSWING SIMILAR

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TITLE: *DESIGN PRO/SMOOTH PRO FULL LITE IMPACT APPROVED*

TYPICAL ANCHOR LAYOUTS AND NOTES

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DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14

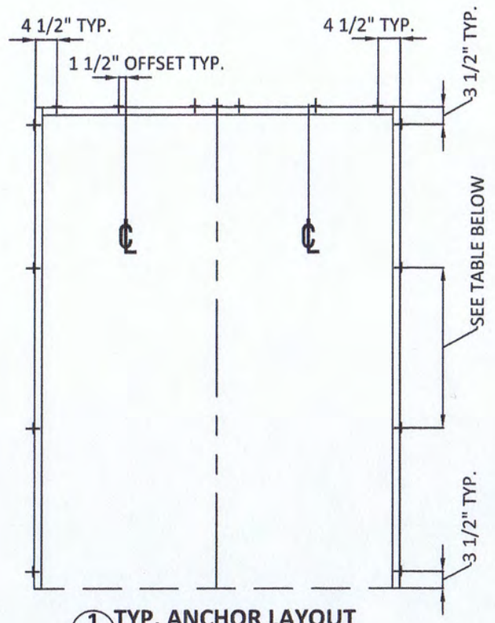
DWG. BY: GL | CHK. BY: SS

SCALE: NTS

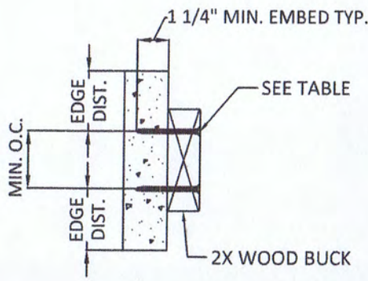
DWG. #: A010927

SHEET: OF 9

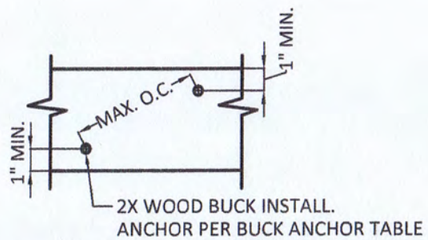
2



1/3 **TYP. ANCHOR LAYOUT**
OPTIONAL 2X BUCK IN CONCRETE/MASONRY



3/3 **2X WOOD BUCK INSTALL.**
CROSS SECTION



4/3 **2X WOOD BUCK INSTALL.**
SIDE VIEW

2X BUCK ANCHOR TABLE							
ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DIST. TO SUBSTRATE	MIN. CENTER TO CENTER DISTANCE	6'8" DOORS	8'0" DOORS
						MAX. O.C. SPACING AT JAMBS	MAX. O.C. SPACING AT JAMBS
ITW TAPCON	1/4"	CONCRETE/CMU	1-1/4"	2-1/2"	4"	25"	30-1/4"
ELCO ULTRACON	1/4"	CONCRETE/CMU	1-3/8" - CONC. 1-1/4" - CMU	1"	4"	25"	30-1/4"

NOTES:

1. 2X BUCK IS NOT FOR INSTALLATION AT SILL. THRESHOLD SHALL BE FASTENED IN ACCORDANCE WITH ANCHOR LOCATIONS SHOWN ON SHEET 2.
2. ANCHORS MAY BE STAGGERED AS SHOWN IN DETAIL 4/3.

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OPTIONAL 2X BUCK ANCHORING DETAILS

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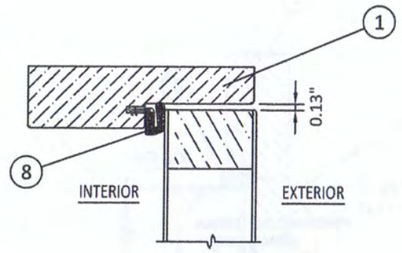
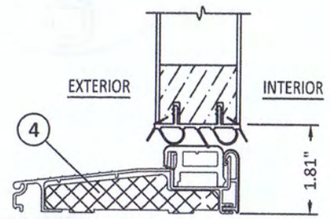
SHEET: OF 9
3



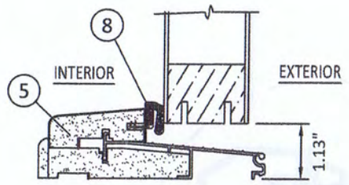
1/4 OPERABLE HEAD

OUTSWING SHOWN - INSWING SIMILAR



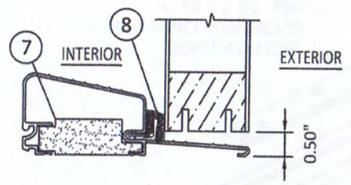
3/4 OPERABLE SILL

INSWING
ENDURA ZAIL4565F



4/4 OPERABLE SILL

OUTSWING
AFCO J-2297



7/4 OPERABLE SILL

OUTSWING
OPTIONAL AFCO H-497

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TITLE: *DESIGN PRO/SMOOTH PRO FULL LITE IMPACT APPROVED*

VERTICAL ASSEMBLIES

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ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14

DWG. BY:	CHK. BY:
GL	SS

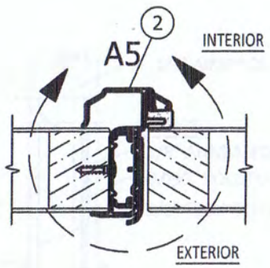
SCALE: NTS

DWG. #: A010927

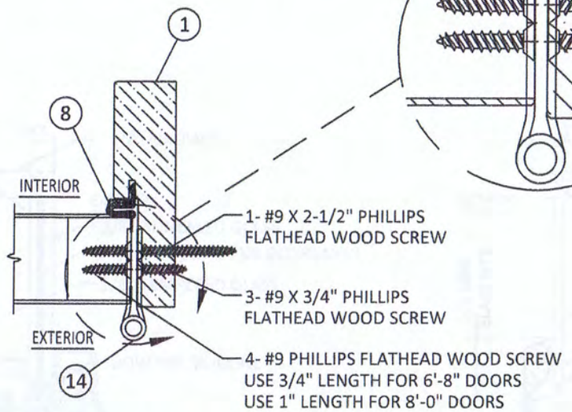
SHEET: 4 OF 9

HINGE SCHEDULE	
DOOR HEIGHT	QUANTITY
6'-8"	3
8'-0"	4

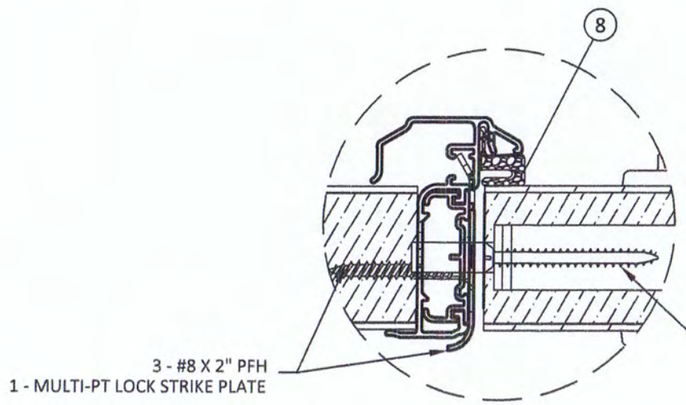
HINGE DETAIL AT JAMB:
PLACE #9 X 2-1/2" PFH SCREW NEXT TO WEATHERSTRIP



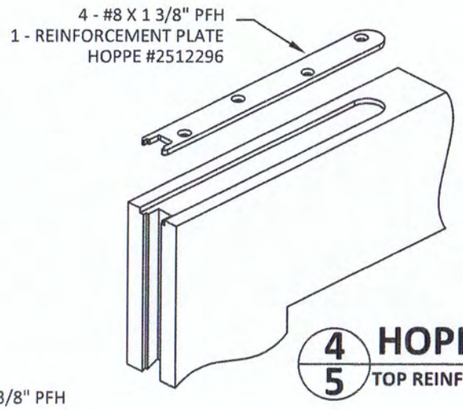
1/5 MEETING STILE
OUTSWING SHOWN - INSWING SIMILAR



3/5 HINGE JAMB
OUTSWING SHOWN - INSWING SIMILAR



DETAIL A5
HOPPE MULTI-PT LOCK
FASTENING



4/5 HOPPE MULTI-POINT LOCK
TOP REINFORCEMENT PLATE - ACTIVE PANEL ONLY

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TITLE: *DESIGN PRO/SMOOTH PRO FULL LITE IMPACT APPROVED*
WOOD SUBSTRATES

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TEXAS P.E. NO. 102957
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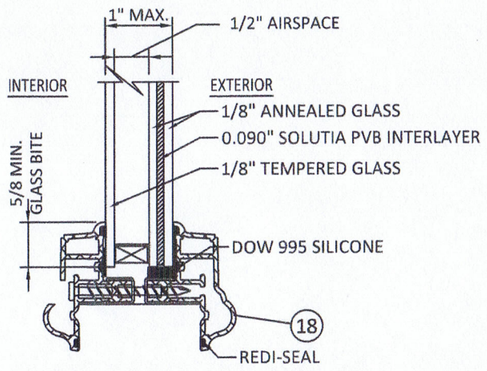
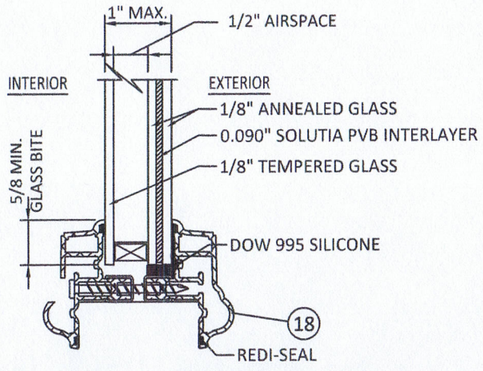
SHEET:	OF 9

5



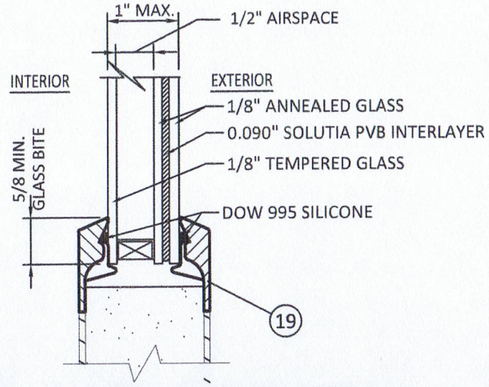
1/6 6'-8" GLAZING DETAIL

20 1/2" MAX. D.L.O. WIDTH
62 1/2" MAX. D.L.O. HEIGHT



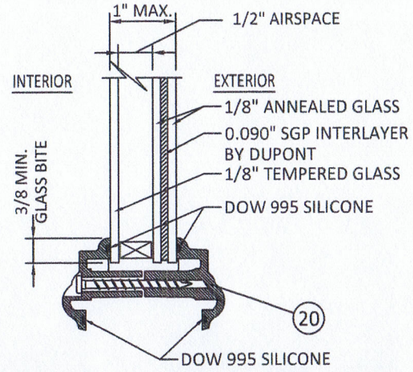
2/6 8'-0" GLAZING DETAIL

20 1/2" MAX. D.L.O. WIDTH
78 1/2" MAX. D.L.O. HEIGHT



3/6 FLUSH GLAZE DETAIL

23 7/8" MAX. D.L.O. WIDTH
78 7/8" MAX. D.L.O. HEIGHT



4/6 GLAZING DETAIL

FOR OVAL, SUNBURST, AND ROUND TOPS
IN 6'8" UNITS AT DP+/- 50 PSF ONLY

NOTE:
FRACTIONAL GLAZING, INCLUDING INTERNAL GRID, BLINDS BETWEEN GLASS, DECORATIVE, EXTERNAL WROUGHT IRON AND RADIUS (SHAPED) LITES ARE APPROVED IN ALL GLAZING DETAILS SHOWN ABOVE.

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TITLE:
DESIGN PRO/SMOOTH PRO FULL LITE
IMPACT APPROVED
HORIZONTAL ASSEMBLIES,
GLAZING DETAIL

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KLAMATH FALLS, OR 97601
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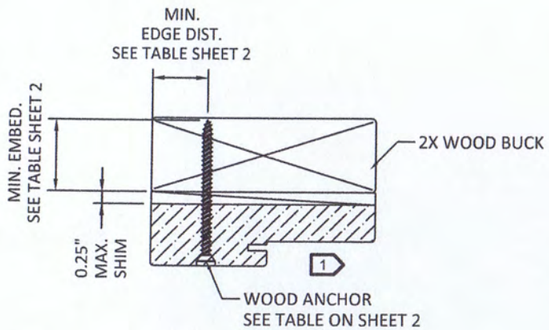
STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

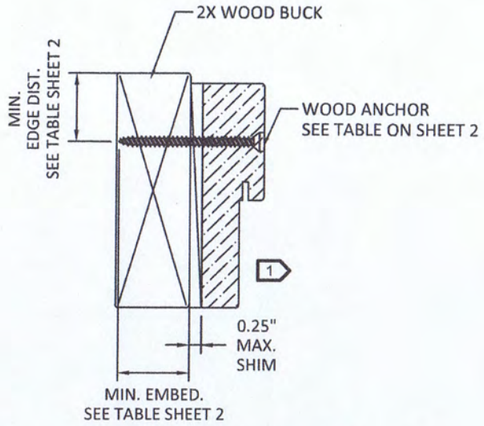
ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14
DWG. BY: GL
CHK. BY: SS
SCALE: NTS
DWG. #: A010927
SHEET: 6 OF 9



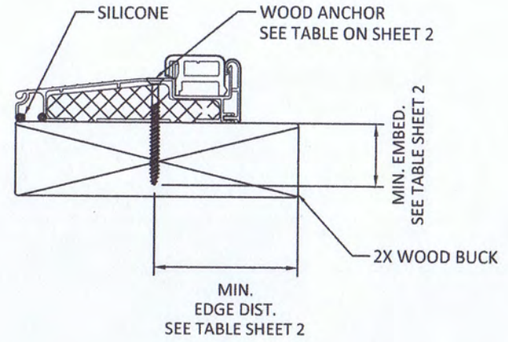
1/7 HEAD (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



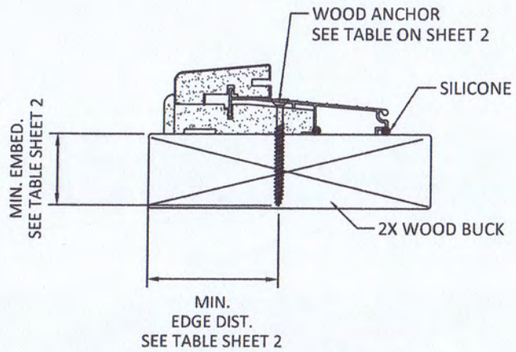
2/7 JAMB (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



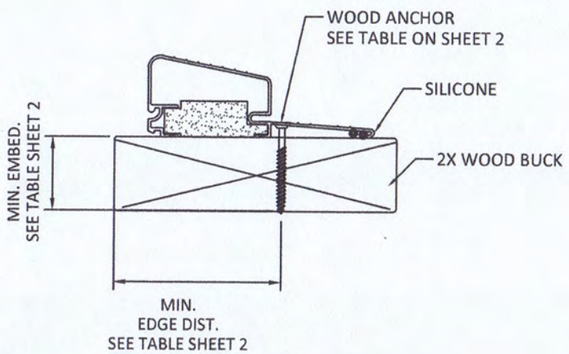
3/7 OPERABLE SILL

INSWING
ENDURA ZAIL4565F



4/7 OPERABLE SILL

OUTSWING
AFCO J-2297



7/7 OPERABLE SILL

HIGH BUMP OUTSWING
AFCO H-497

1 OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

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BUILDING DROPS, IN
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TITLE:
DESIGN PRO/SMOOTH PRO FULL LITE
IMPACT APPROVED
WOOD SUBSTRATES

3737 LAKEPORT BLVD.,
KLAMATH FALLS, OR 97601
PH: (541)882-3451

JELD-WEN WINDOWS & DOORS

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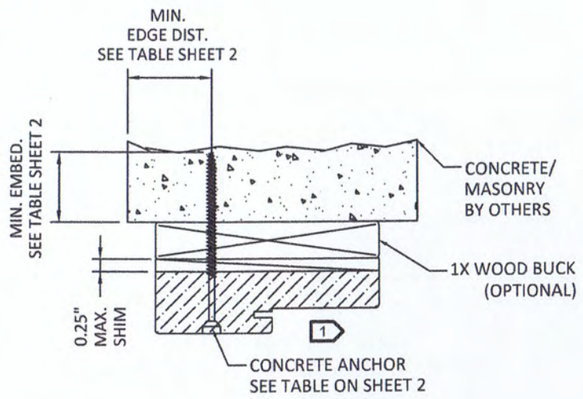
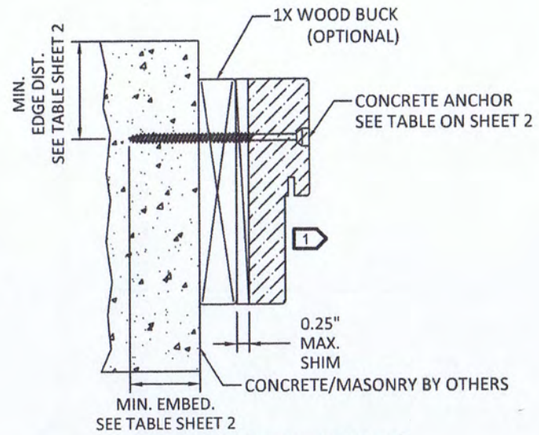
7



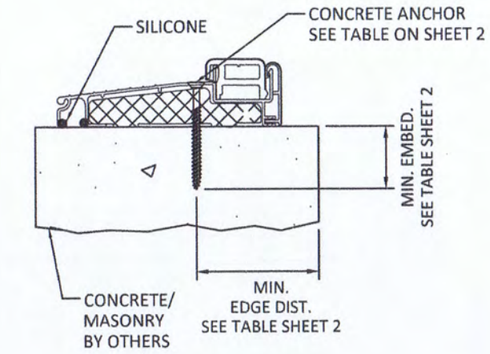
1/8 HEAD (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



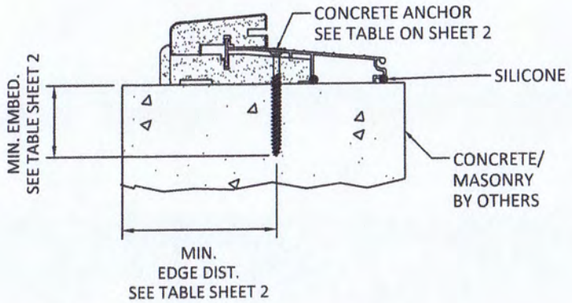
2/8 JAMB (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



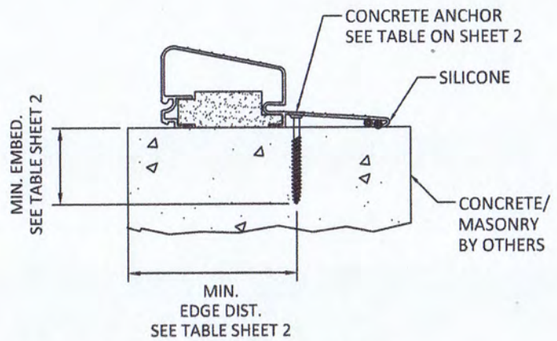
3/8 OPERABLE SILL

INSWING
ENDURA ZAIL4565F



4/8 OPERABLE SILL

OUTSWING
AFCO J-2297



7/8 OPERABLE SILL

HIGH BUMP OUTSWING
AFCO H-497

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TITLE: *DESIGN PRO/SMOOTH PRO FULL LITE IMPACT APPROVED*

CONCRETE SUBSTRATES

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KLAMATH FALLS, OR 97601
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JELD-WEN WINDOWS & DOORS

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ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14

DWG. BY: GL | CHK. BY: SS

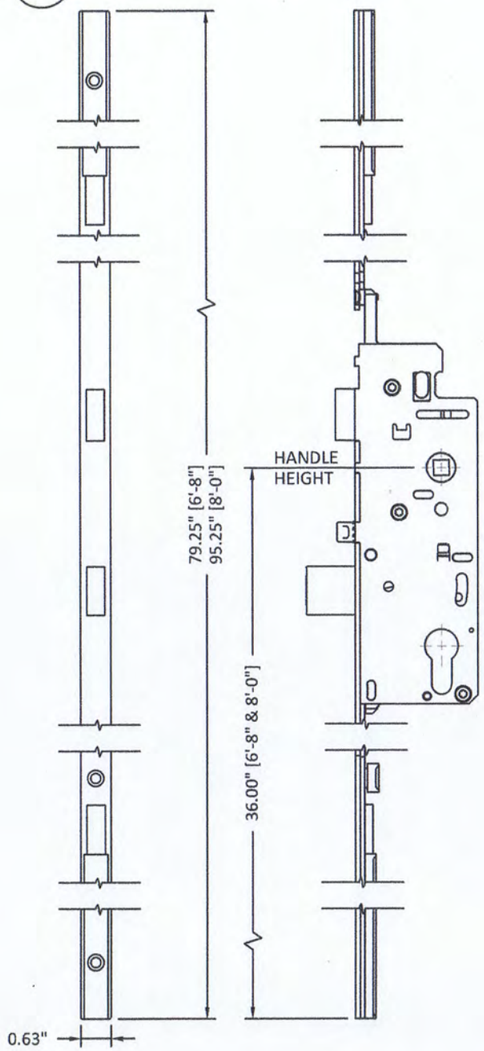
SCALE: NTS

DWG. #: A010927

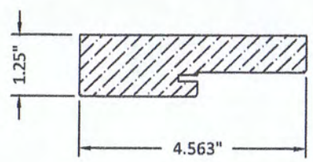
SHEET: 8 OF 9

BILL OF MATERIALS		
ITEM#	DESCRIPTION	MATERIAL
1	FRAME HEAD/JAMBS	FINGER-JOINTED PINE
		SOLID PINE
		LAMINATED VENEER LUMBER
		COMPOSITE
2	ASTRAGAL, ENDURA ULTIMATE HURRICANE (SEE SHEET 2 FOR HARDWARE AND FASTENING DETAILS)	6063-T6 ALUMINUM
3	*(NOT USED)*	-
4	ENDURA ZAIL4565F THRESHOLD	-
5	AFCO J-2297 THRESHOLD	-
6	*(NOT USED)*	-
7	AFCO H-497 THRESHOLD	-
8	WEATHERSTRIP	URETHANE FOAM & POLYETHYLENE
9	NON-COMPRESSION SHIM (0.25" MAX. THK.)	COMPOSITE
10	*(NOT USED)*	WOOD
11	*(NOT USED)*	WOOD
12	#10 WOOD INSTALLATION SCREW W/ 1 1/2" MIN. EMBEDMENT	STEEL
13	CONC./CMU ANCHOR (SEE ANCHOR TABLE SHEETS 2 & 3)	STEEL
14	BUTT HINGE (SEE SCHEDULE SHEET 5)	-
15	KWIKSET LOCK SERIES 400	STEEL
16	KWIKSET DEADBOLT SERIES 780	STEEL
17	HOPPE MULI-POINT HARDWARE HLS9000 (SEE SHEET 2 FOR HARDWARE AND FASTENING DETAILS)	STEEL
18	ODL LITE KIT (LMI)	6063-T6 ALUMINUM
19	FLUSH GLAZING LEG	FIBERGLASS
20	ODL LIPLITE KIT (RADIUS LITES)	PC ABS

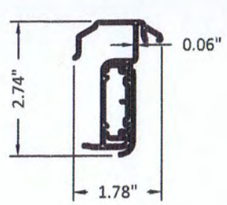
17 HOPPE MULT-POINT LOCK



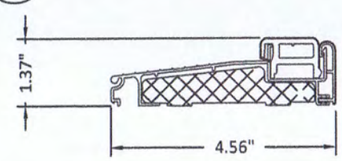
1 FRAME HEAD/JAMBS
VARIES, SEE BOM AT LEFT



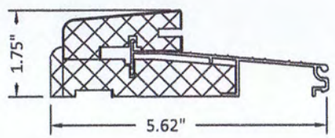
2 ENDURA ASTRAGAL
ALUMINUM



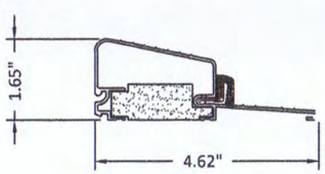
4 ENDURA ZAIL4565F THRESHOLD



5 AFCO J-2297 THRESHOLD



7 AFCO H-497 THRESHOLD



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COMPONENTS AND BILL OF MATERIALS

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