

# JELD WEN®

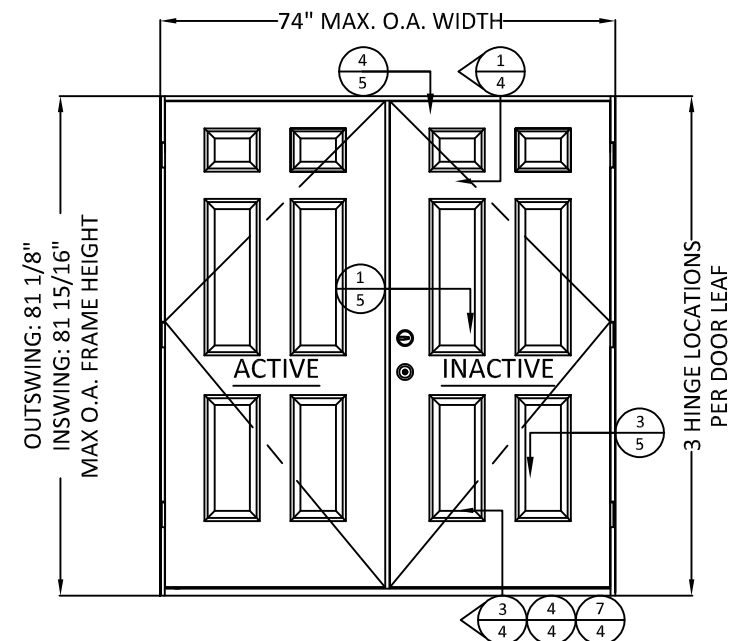
## WINDOWS & DOORS

### DESIGN PRO / SMOOTH PRO NON-IMPACT

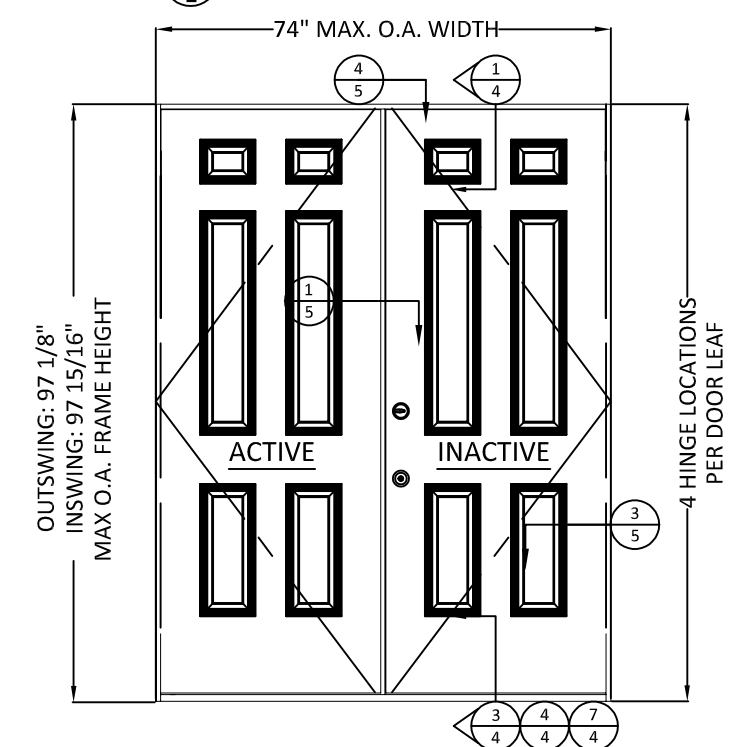
FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ)

**GENERAL NOTES:**

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL RESIDENTIAL CODE (IRC), AND FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - ASTM E330-02
  - ASTM E283-04
  - AAMA 1304-02
- 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- 6-PANEL DOOR SHOWN FOR ILLUSTRATION PURPOSES. ADDITIONAL PANEL CONFIGURATIONS AND FLUSH DOORS ARE QUALIFIED.
- 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



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



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

NOTE:  
INACTIVE AND ACTIVE DOOR PANEL  
ORIENTATION IS INTERCHANGEABLE.

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SHEET	REVISION	SHEET DESCRIPTION
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4	A	VERTICAL ASSEMBLIES
5	A	HORIZONTAL ASSEMBLIES
6	-	WOOD SUBSTRATES
7	-	CONCRETE SUBSTRATES
8	A	COMPONENTS & BILL OF MATERIALS

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

\*SEE GENERAL NOTE 6, SHEET 1, FOR WATER INFILTRATION APPROVED SILLS.

PREPARED BY:



**BUILDING DROPS, INC.**  
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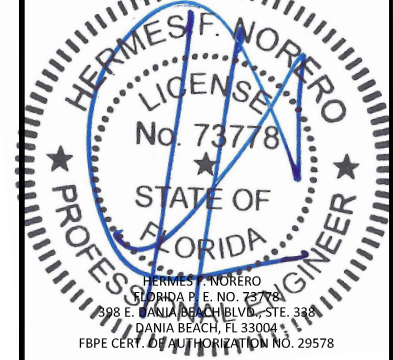
TITLE:  
DESIGN PRO/SMOOTH PRO  
NON-IMPACT  
TYPICAL ELEVATIONS, DESIGN  
PRESSURES, AND GENERAL NOTES

3737 LAKEPORT BLVD.,  
KLAMATH FALLS, OR 97601  
PH: (541)882-3451  
FAX: (541)850-2609



REMARKS	BY	DATE
Add Multi-Point Lock	GL	06/23/14
Reference DWG. #A010833A	AM	09/05/19

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DATE: 02.05.14

DWG. BY: GL/TJM  
CHK. BY: SS/MSS

SCALE: NTS

DWG. #: D015688

SHEET: 1 OF 8

PREPARED BY:



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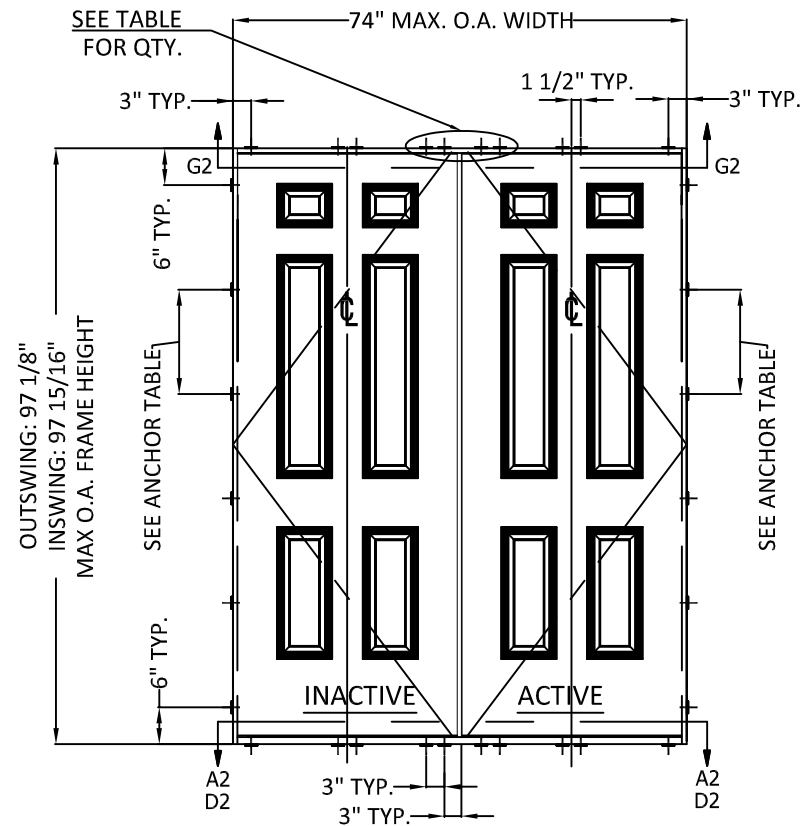
TITLE: DESIGN PRO/SMOOTH PRO  
 NON-IMPACT  
 ANCHOR LAYOUTS AND NOTES

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**INSTALLATION NOTES:**

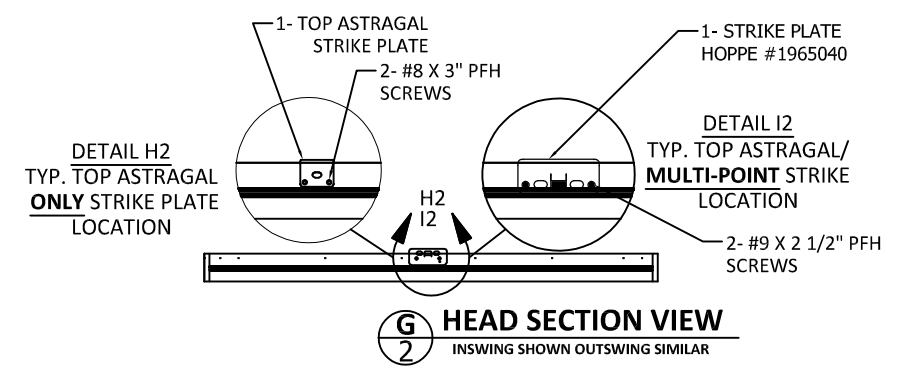
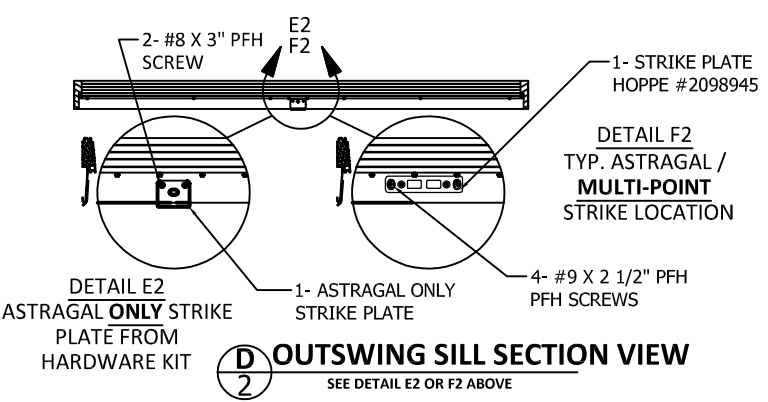
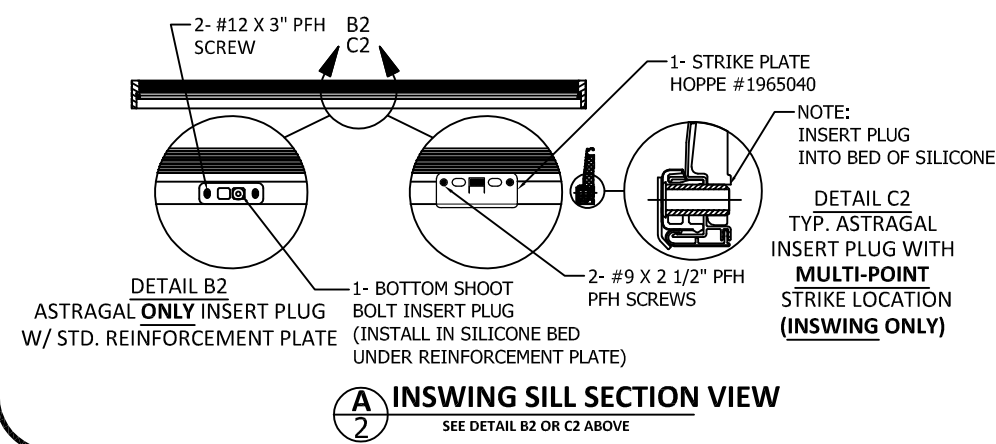
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE A NON-COMPRESSIBLE COMPOSITE OR BETTER.
- MINIMUM 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, AND SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 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.
- FOR 2X STUD CONSTRUCTION, ANCHORING OF THESE PRODUCTS SHALL BE THE SAME AS FOR 2X BUCK CONCRETE/MASONRY CONSTRUCTION.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - 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.
  - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- SEE SHEETS 6 AND 7 FOR MORE DETAILS OF THE INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS, EDGE DISTANCES, EMBEDMENTS, AND SHIM SPACING.
- OPTIONALLY, ANCHORS CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.



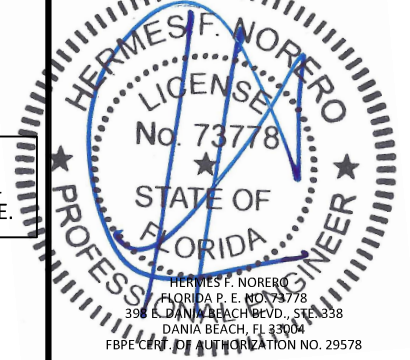
1 TYP. ANCHOR LAYOUT  
 2 6'-8\"/>

NOTE:  
 INACTIVE AND ACTIVE DOOR PANEL  
 ORIENTATION IS INTERCHANGEABLE.

ANCHOR TABLE								
ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	6'8\"/>			
					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



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DATE: 02.05.14  
 DWG. BY: GL/TJM  
 CHK. BY: SS/MSS  
 SCALE: NTS  
 DWG. #: D015688  
 SHEET: OF 8

PREPARED BY:



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TITLE: DESIGN PRO/SMOOTH PRO  
 NON-IMPACT

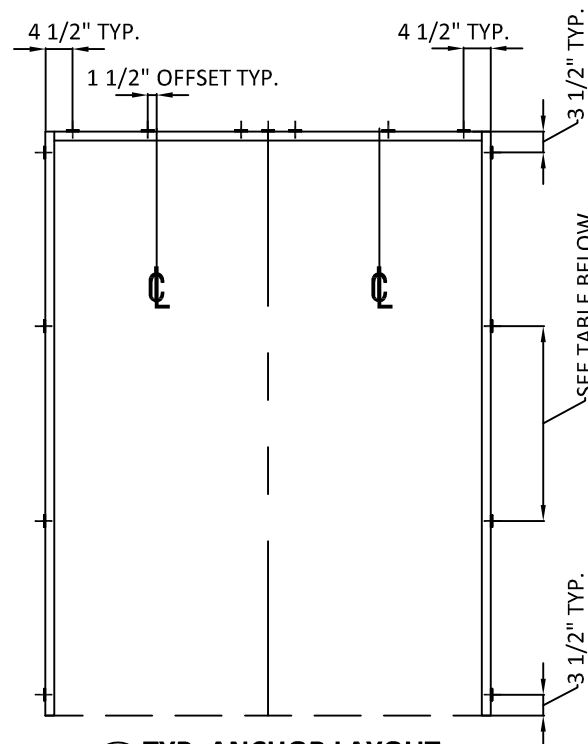
OPTIONAL 2X BUCK  
 ANCHORING DETAILS

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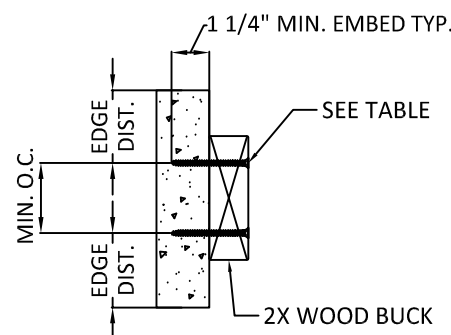
**JELD-WEN**  
 WINDOWS & DOORS

REMARKS	BY	DATE
Add Multi-Point Lock	GL	06/23/14
Reference DWG. #A010833A	AM	09/05/19

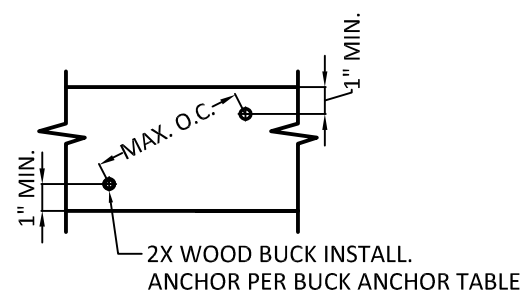
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**1** TYP. ANCHOR LAYOUT  
**3** OPTIONAL 2X BUCK IN CONCRETE/MASONRY



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



**4** 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:

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

DATE: 02.05.14

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SCALE: NTS

DWG. #: D015688

SHEET: OF 8

PREPARED BY:



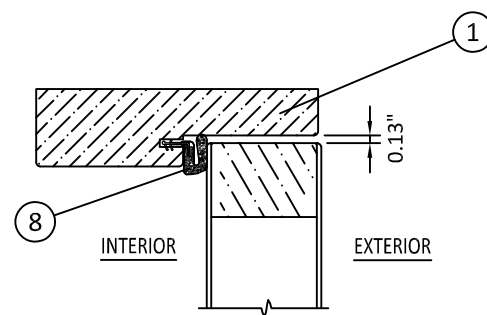
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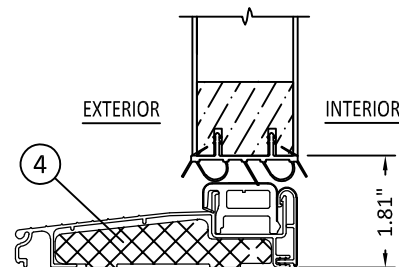
TITLE: DESIGN PRO/SMOOTH PRO  
NON-IMPACT  
VERTICAL ASSEMBLIES

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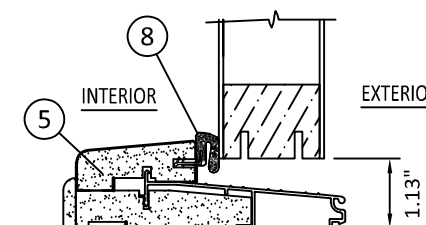
**JELD-WEN**  
WINDOWS & DOORS



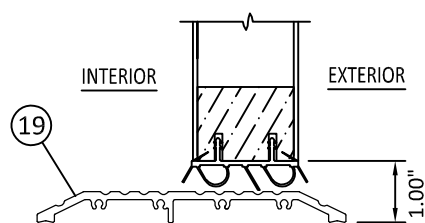
**1**  
**4** OPERABLE HEAD  
OUTSWING SHOWN - INSWING SIMILAR



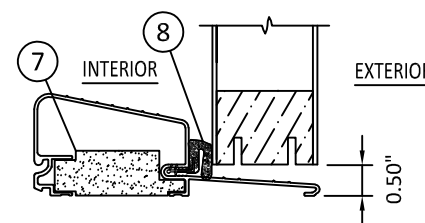
**3**  
**4** OPERABLE SILL  
INSWING



**4**  
**4** OPERABLE SILL  
OUTSWING



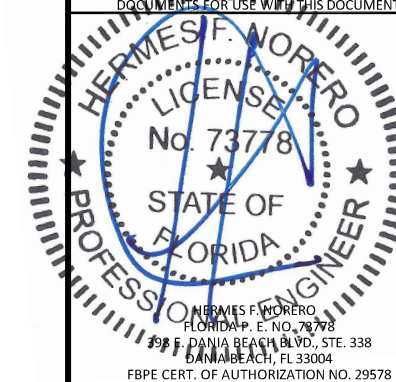
**5**  
**4** OPERABLE ADA SILL  
INSWING/OUTSWING



**7**  
**4** OPERABLE SILL  
OUTSWING  
OPTIONAL AFCO H-497

REMARKS	BY	DATE
Add Multi-Point Lock	GL	06/23/14
Reference DWG. #A010833A	AM	09/05/19

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HERMES F. NORERO  
FLORIDA P. E. NO. 73778  
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FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 02.05.14

DWG. BY: GL/TJM    CHK. BY: SS/MSS

SCALE: NTS

DWG. #: D015688

SHEET: OF 8



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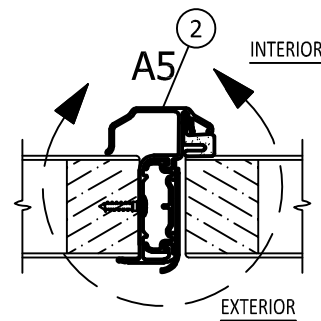
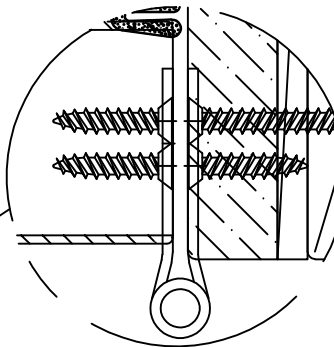
TITLE:  
 DESIGN PRO/SMOOTH PRO  
 NON-IMPACT  
 HORIZONTAL ASSEMBLIES

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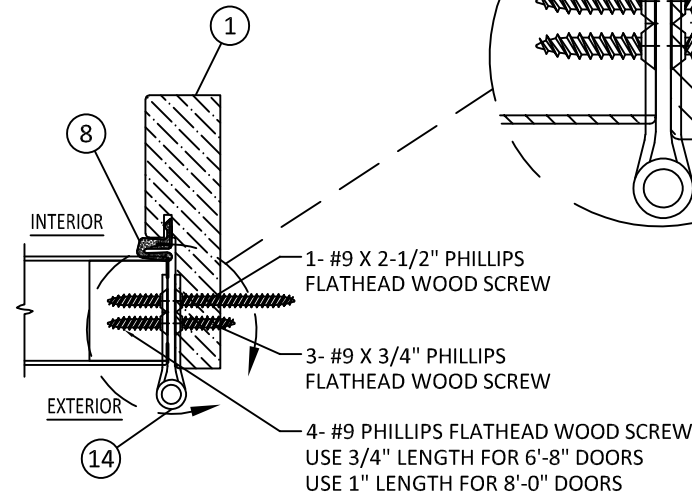
**JELD-WEN**  
 WINDOWS & DOORS

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



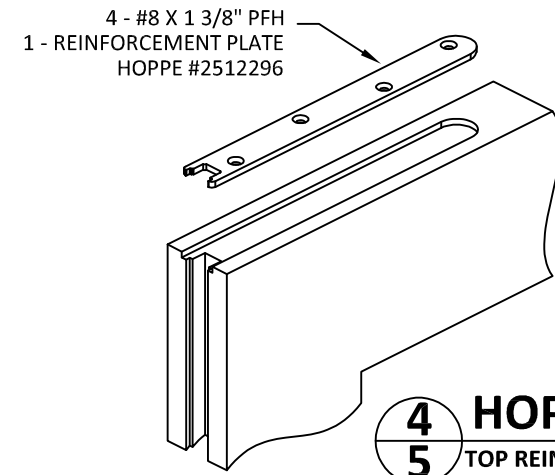
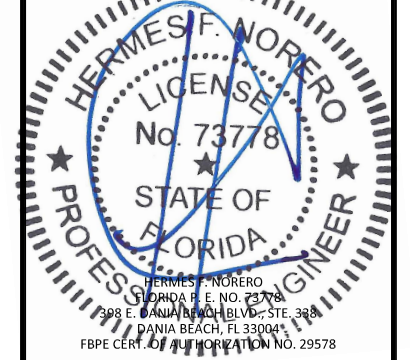
**1**  
**5** MEETING STILE  
 OUTSWING SHOWN - INSWING SIMILAR



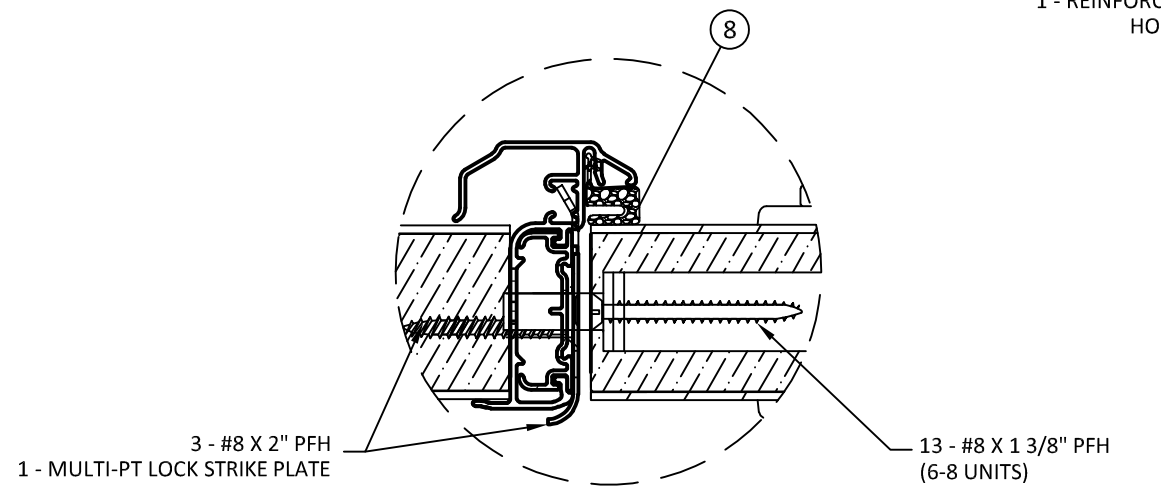
**3**  
**5** HINGE JAMB  
 OUTSWING SHOWN - INSWING SIMILAR

REMARKS	BY	DATE
Add Multi-Point Lock	GL	06/23/14
Reference DWG. #A010833A	AM	09/05/19

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



**DETAIL A5**  
 HOPPE MULTI-PT LOCK  
 FASTENING

DATE:	02.05.14
DWG. BY:	GL/TJM
CHK. BY:	SS/MSS
SCALE:	NTS
DWG. #:	D015688
SHEET:	OF 8

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DESIGN PRO/SMOOTH PRO  
 NON-IMPACT

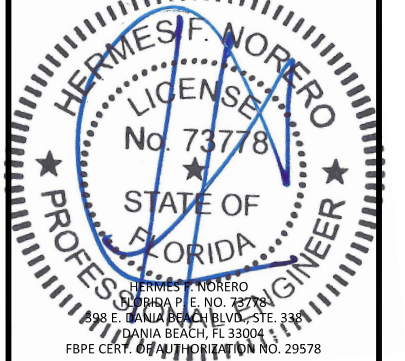
WOOD INSTALLATION

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TITLE:

REMARKS	BY	DATE
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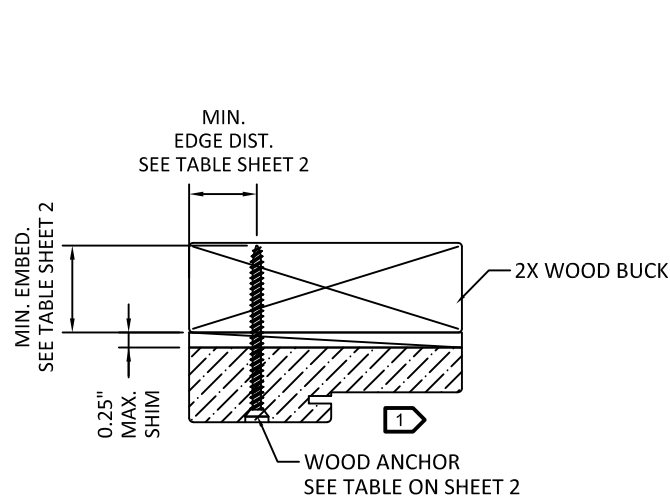
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SCALE: NTS

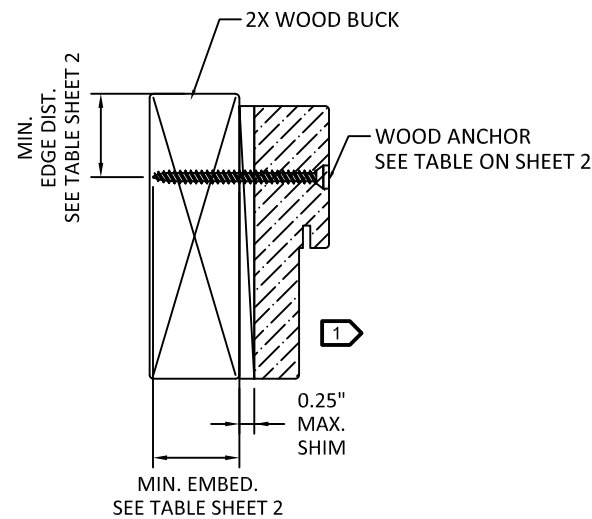
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SHEET: OF 8

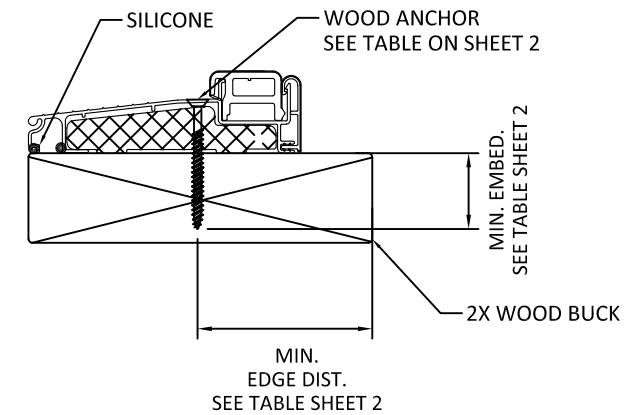
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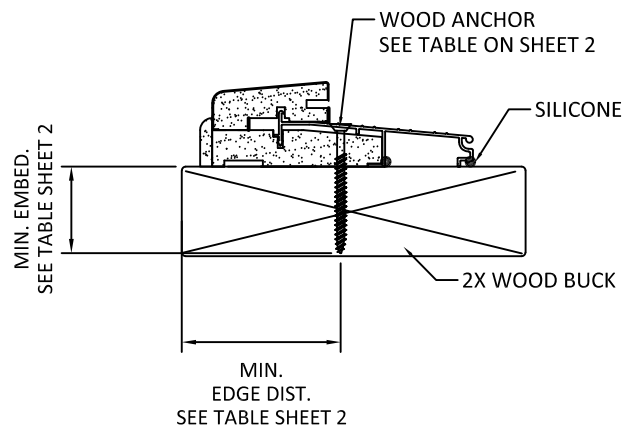
**1**  
**6** HEAD (TYPICAL)  
OUTSWING SHOWN - INSWING SIMILAR



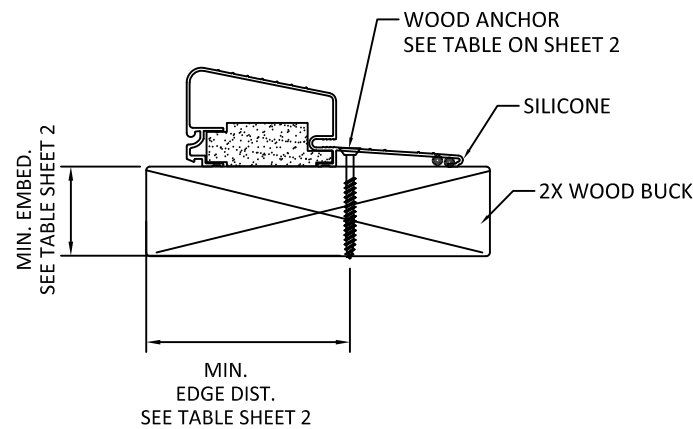
**2**  
**6** JAMB (TYPICAL)  
OUTSWING SHOWN - INSWING SIMILAR



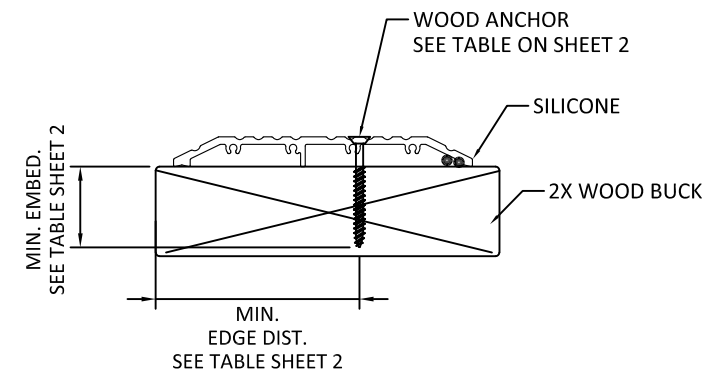
**3**  
**6** OPERABLE SILL  
INSWING



**4**  
**6** OPERABLE SILL  
OUTSWING



**5**  
**6** OPERABLE SILL  
HIGH BUMP OUTSWING  
AFCO H-497



**6**  
**6** OPERABLE SILL  
ADA SILL

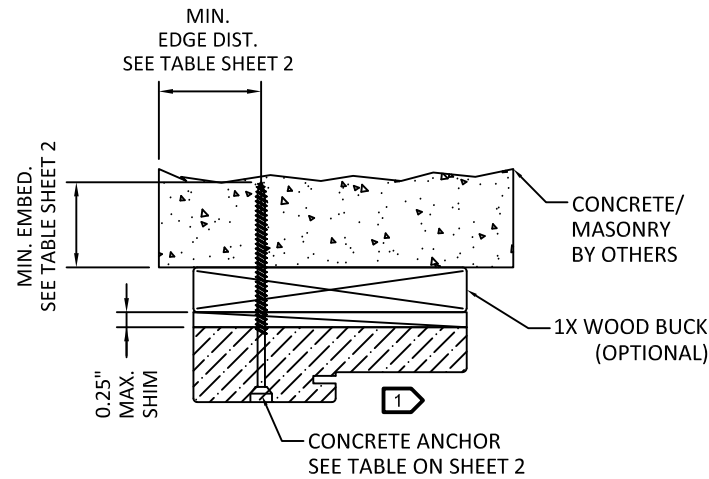
1 OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

PREPARED BY:

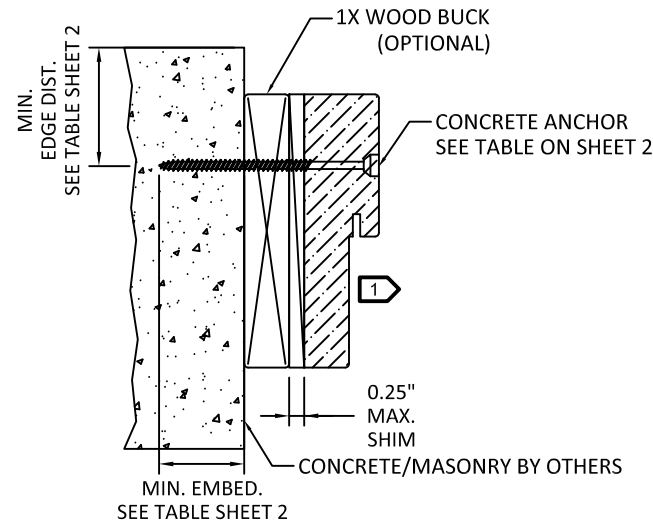
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TITLE:  
**DESIGN PRO/SMOOTH PRO  
NON-IMPACT  
CONCRETE INSTALLATION**

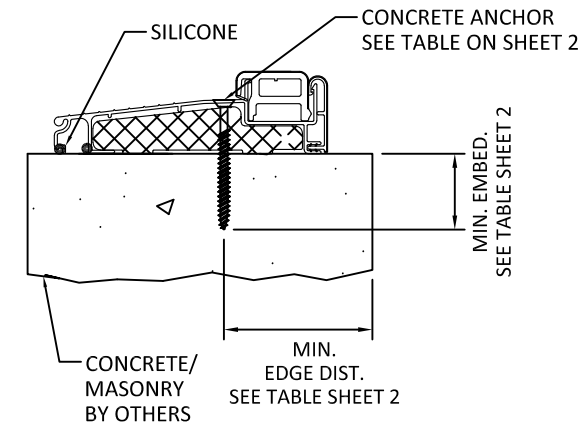
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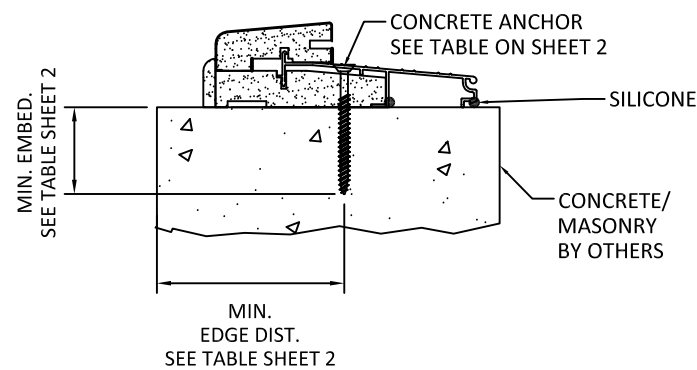
**1**  
**7** **HEAD (TYPICAL)**  
OUTSWING SHOWN - INSWING SIMILAR



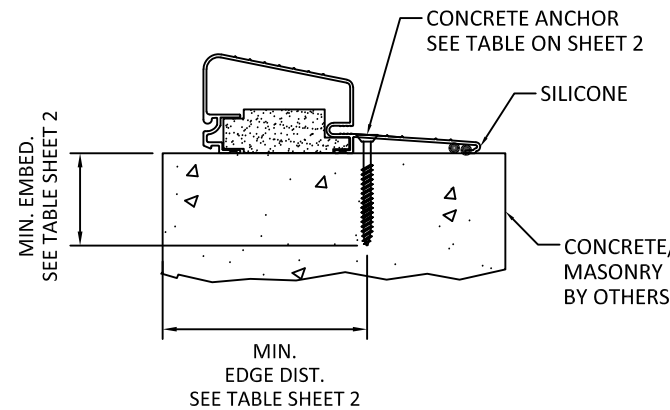
**2**  
**7** **JAMB (TYPICAL)**  
OUTSWING SHOWN - INSWING SIMILAR



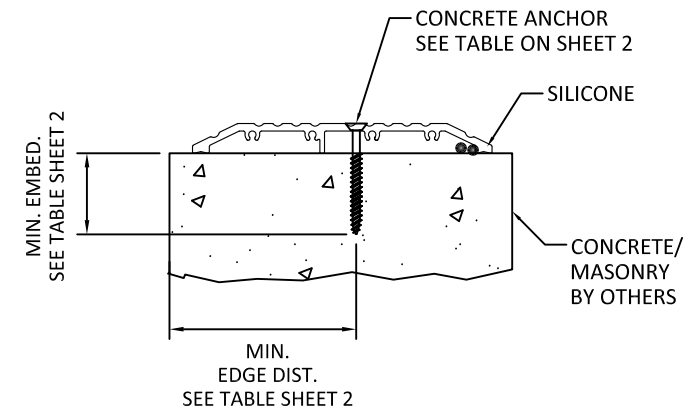
**3**  
**7** **OPERABLE SILL**  
INSWING



**4**  
**7** **OPERABLE SILL**  
OUTSWING



**5**  
**7** **OPERABLE SILL**  
HIGH BUMP OUTSWING  
AFCO H-497

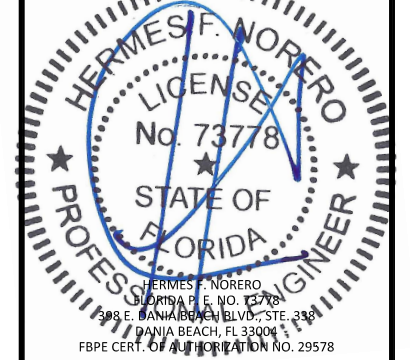


**6**  
**7** **OPERABLE SILL**  
ADA SILL

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

REMARKS	BY	DATE
Add Multi-Point Lock	GL	06/23/14
Reference DWG. #A010833A	AM	09/05/19

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DATE: 02.05.14

DWG. BY: GL/TJM  
CHK. BY: SS/MSS

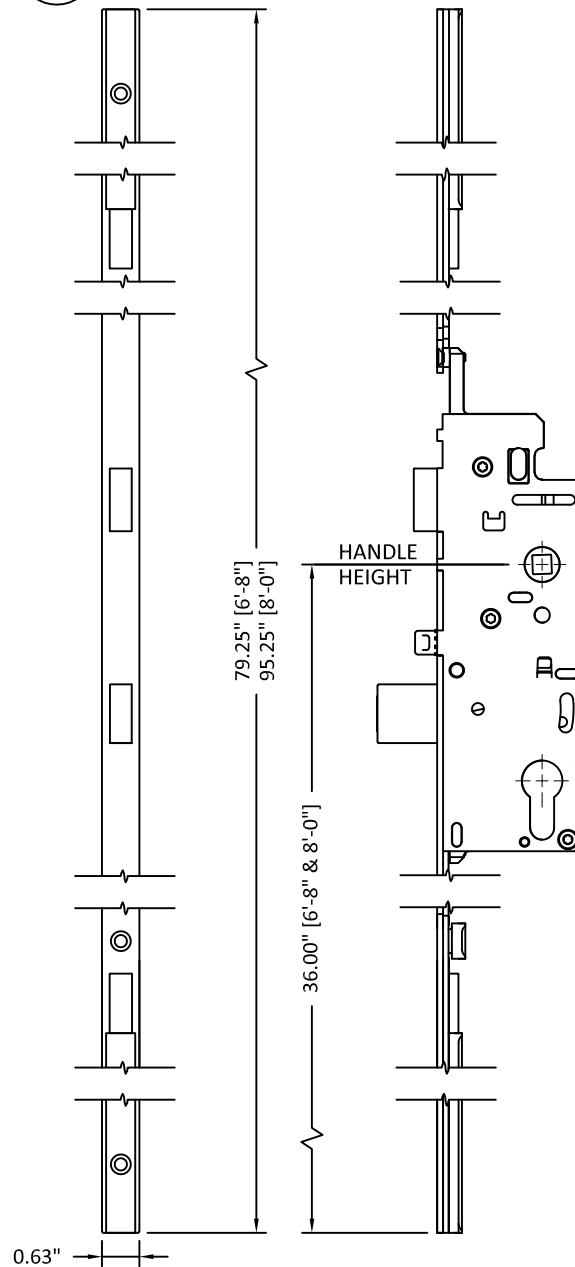
SCALE: NTS

DWG. #: D015688

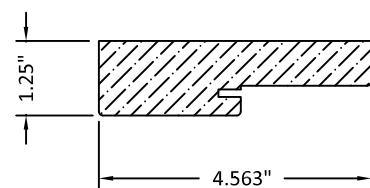
SHEET: OF 8

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	THRESHOLD	-
5	THRESHOLD	-
6	(NOT USED)	-
7	AFCO H-497 THRESHOLD	-
8	WEATHERSTRIP	URETHANE FOAM & POLYETHYLENE
9	NON-COMPRESSION SHIM (0.25" MAX. THK.)	COMPOSITE
10	2X WOOD (S.G. MUST BE 0.55 OR GREATER)	WOOD
11	1X WOOD (S.G. MUST BE 0.55 OR GREATER)	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	LOCK SERIES 400	STEEL
16	DEADBOLT SERIES 780	STEEL
17	HOPPE MULTI-POINT HARDWARE HLS9000 (SEE SHEET 2 FOR HARDWARE AND FASTENING DETAILS)	STEEL
18	PU DOOR CORE	-
19	ADA THRESHOLD	-

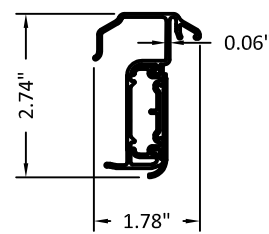
17 HOPPE MULTI-POINT LOCK



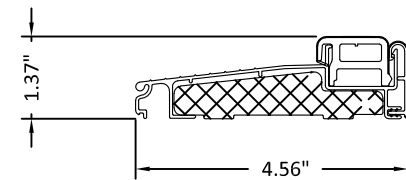
1 FRAME HEAD/JAMBS  
VARIES, SEE BOM ABOVE



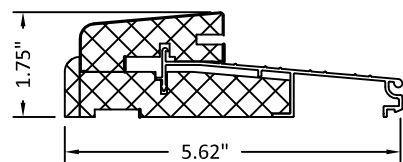
2 ENDURA ASTRAGAL  
ALUMINUM



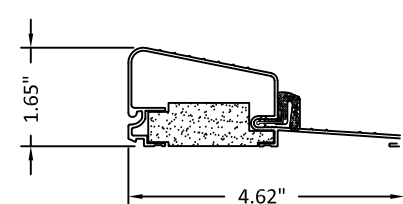
4 THRESHOLD



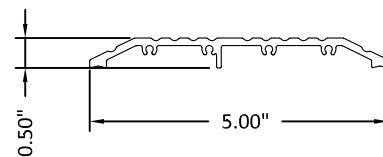
5 THRESHOLD



7 AFCO H-497 THRESHOLD



19 ADA SILL



PREPARED BY:

**BUILDING DROPS, INC.**

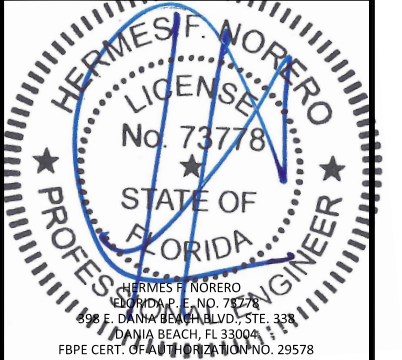
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744.4738  
WEB: www.buildingdrops.com

TITLE: DESIGN PRO/SMOOTH PRO  
NON-IMPACT  
COMPONENTS AND BILL OF MATERIALS

3737 LAKEPORT BLVD.,  
KLAMATH FALLS, OR 97601  
PH: (541)882-3451  
FAX: (541)850-2609

REMARKS	BY	DATE
Add Multi-Point Lock	GL	06/23/14
Reference DWG. #A010833A	AM	09/05/19

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DATE: 02.05.14

DWG. BY: GL/TJM      CHK. BY: SS/MSS

SCALE: NTS

DWG. #: D015688

SHEET: OF 8