

R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.11-20.dwg, FL-19007.16

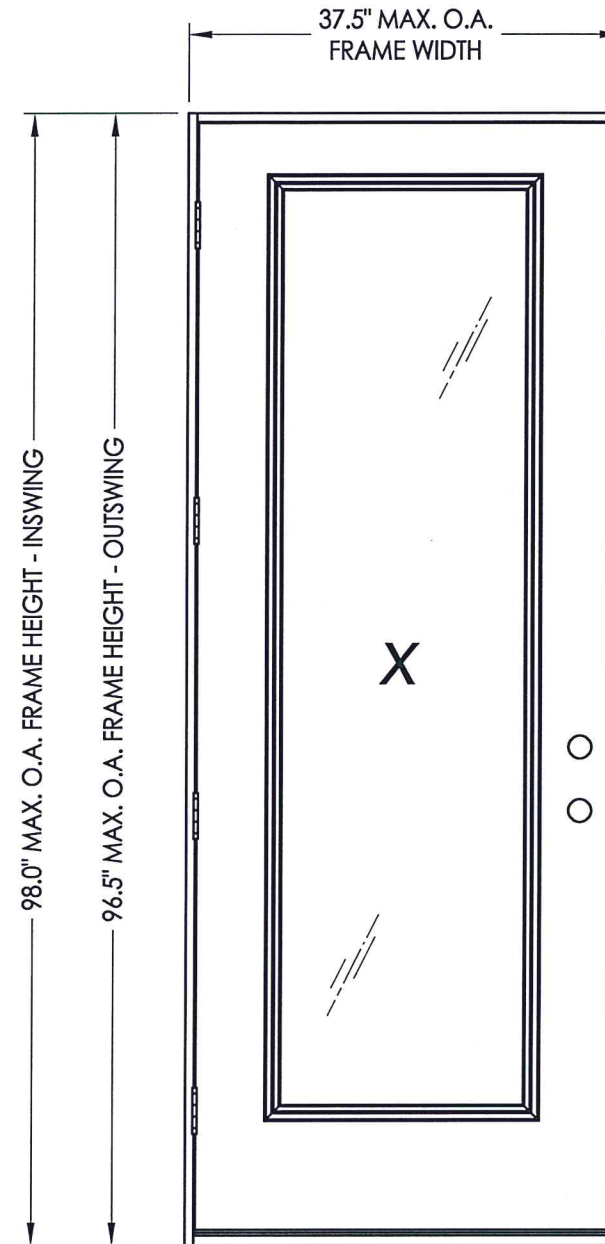


DIAMOND DOOR SERIES FLUSH GLAZED FIBERGLASS DOOR INSWING / OUTSWING "IMPACT"

GENERAL NOTES

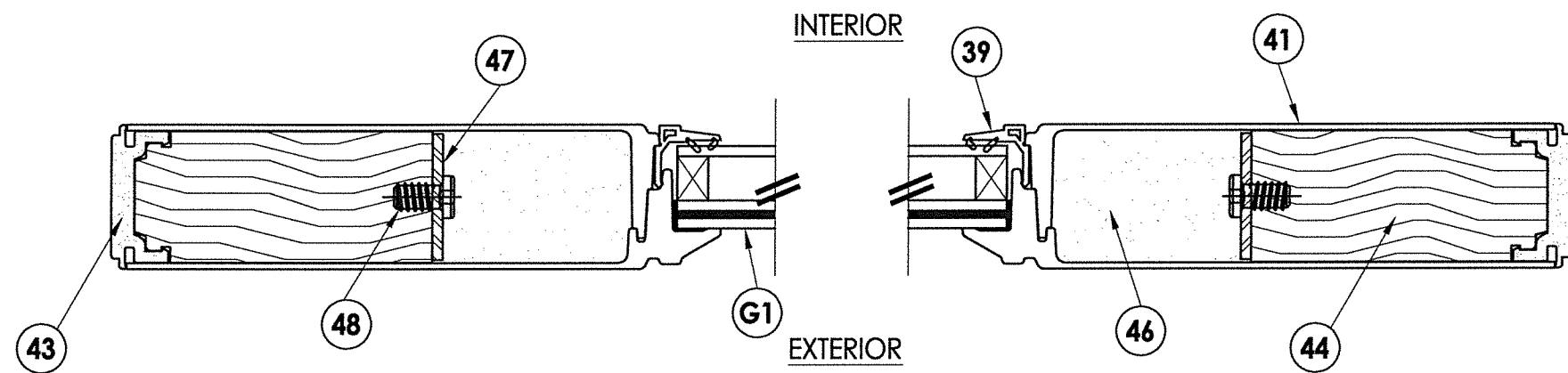
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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SHEET #	DESCRIPTION
1	Typical elevation, design pressures, & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring - 2X buck masonry construction
6	Frame anchoring - 1X buck masonry construction
7	Bill of materials, glazing detail & components

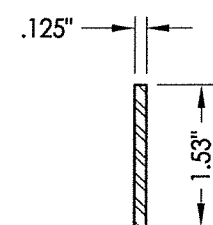


SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
INSWING	37.5" x 98.0"	21.0" x 79.0"	G1	+47.5	-47.5
OUTSWING	37.5" x 96.5"	21.0" x 79.0"		+50.0	-50.0

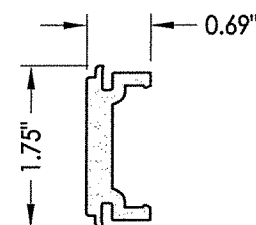
		August 3, 2020	
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: DOERS FIBERGLASS DOOR		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
		REVISIONS	
		NO. DATE	
		3 7/30/20 UPDATE TO 7TH ED. (2020) FBC	
		2 5/15/19 ADD STEEL STUD ANCHORING	
		1 9/26/17 UPDATE TO 6TH ED. (2017) FBC	
DATE: 09/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.16			
SHEET 1 OF 7			



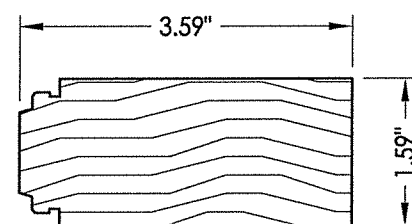
1 HORIZONTAL CROSS SECTION



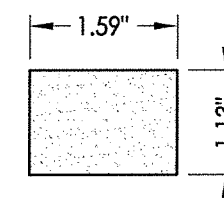
47 STILE STIFFENER
Steel reinforcement



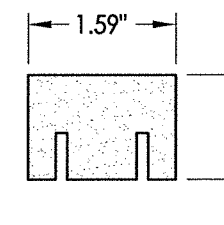
43 LATCH & HINGE STILE
Cellular PVC



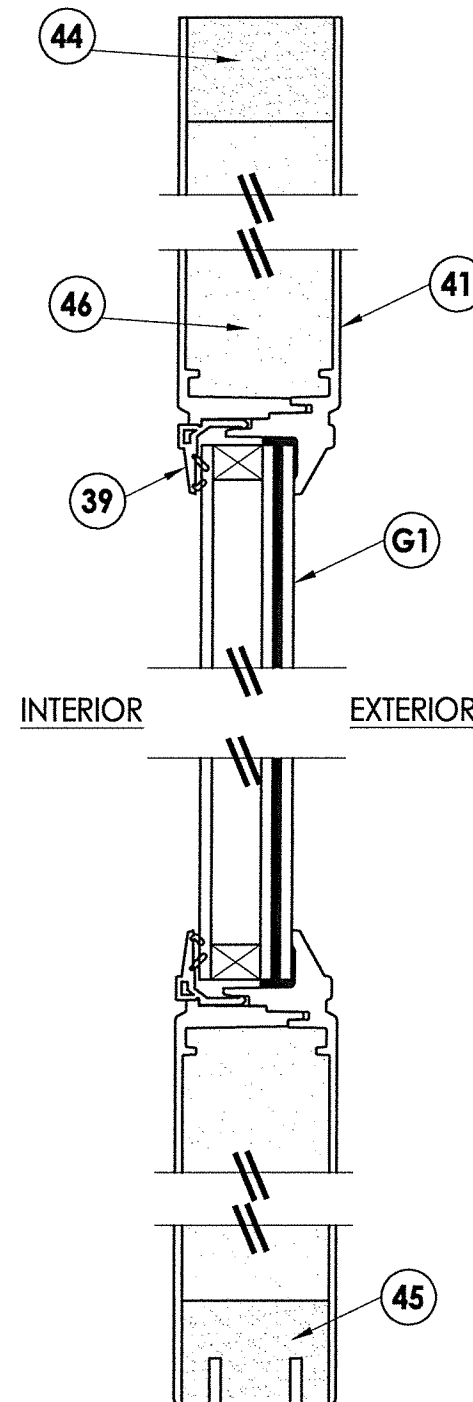
44 LATCH & HINGE STILE
Wood support



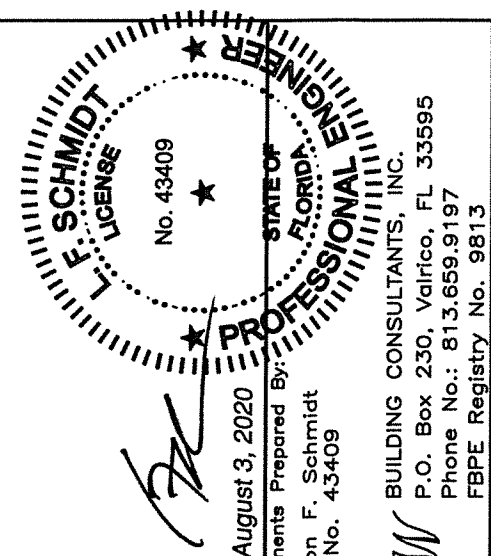
42 **TOP RAIL**
Cellular PVC



45 BOTTOM RAIL
Cellular PVC



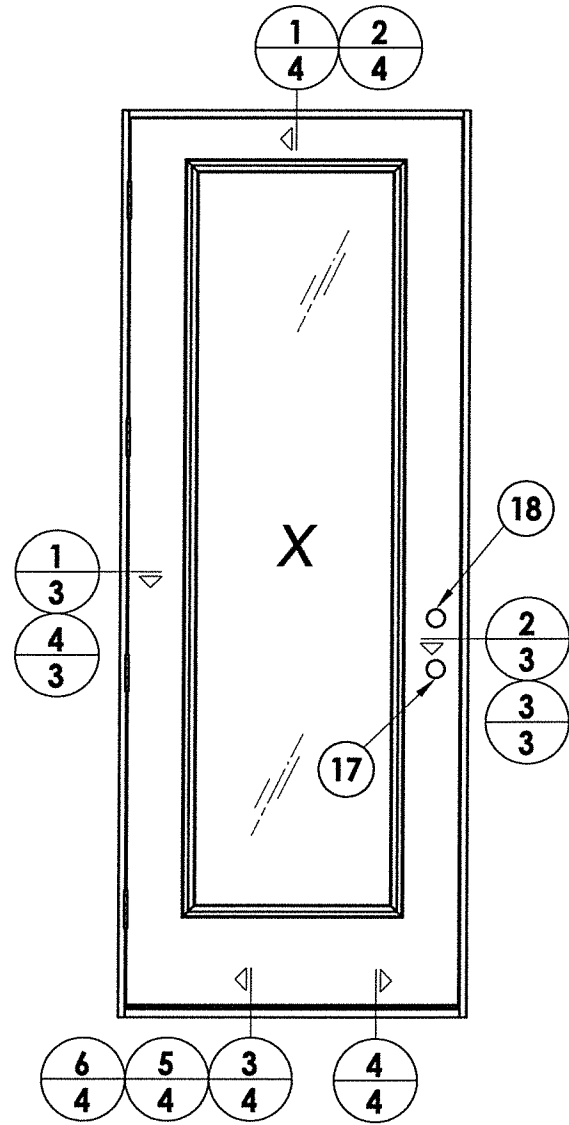
2 VERTICAL CROSS SECTION



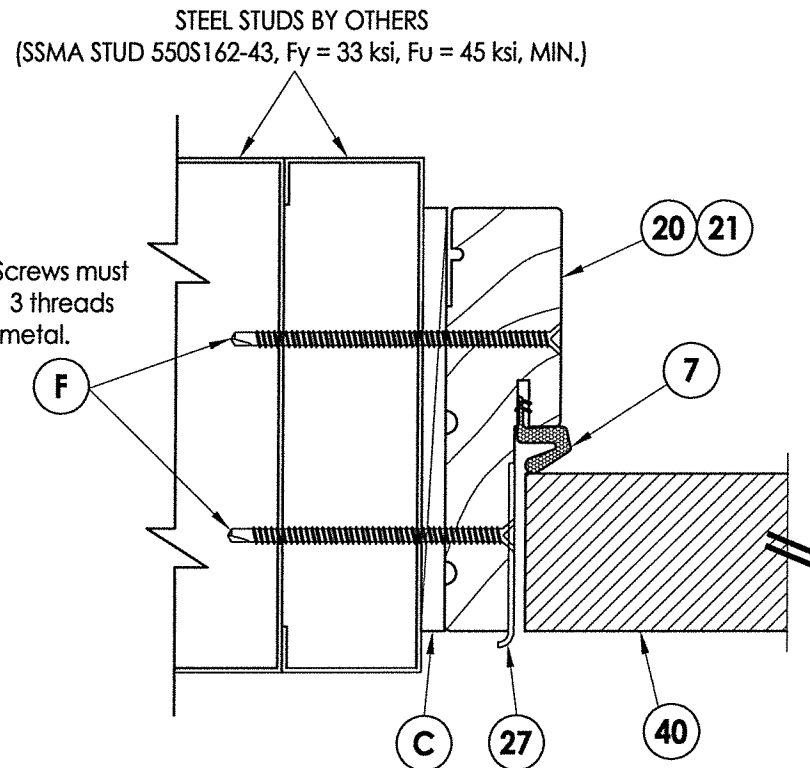
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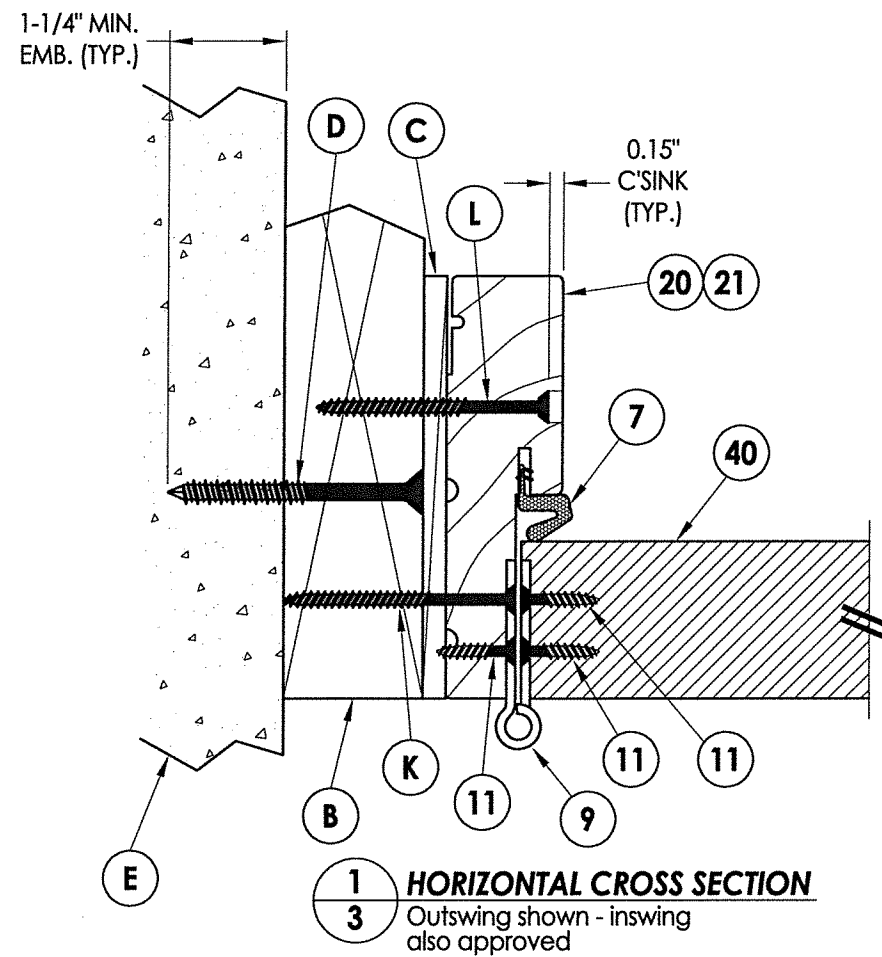
DATE: 09/28/15		PRODUCT: DOERS FIBERGLASS DOOR	
SCALE: N.T.S.	PART OR ASSEMBLY: DOOR PANEL DETAILS		
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.16			
SHEET 2 OF 7			



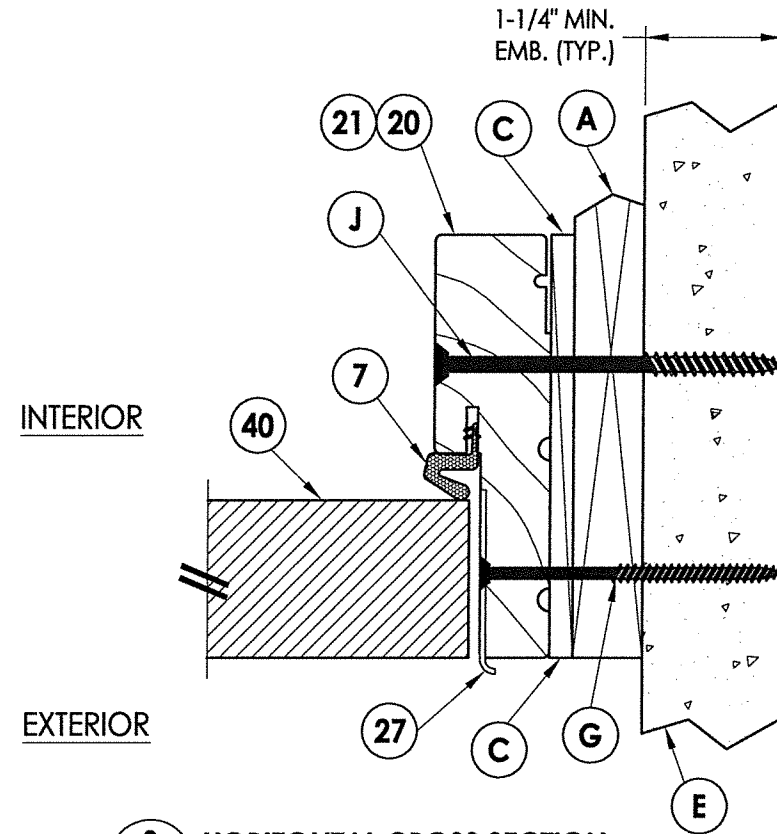
NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through 2 sheets of metal.



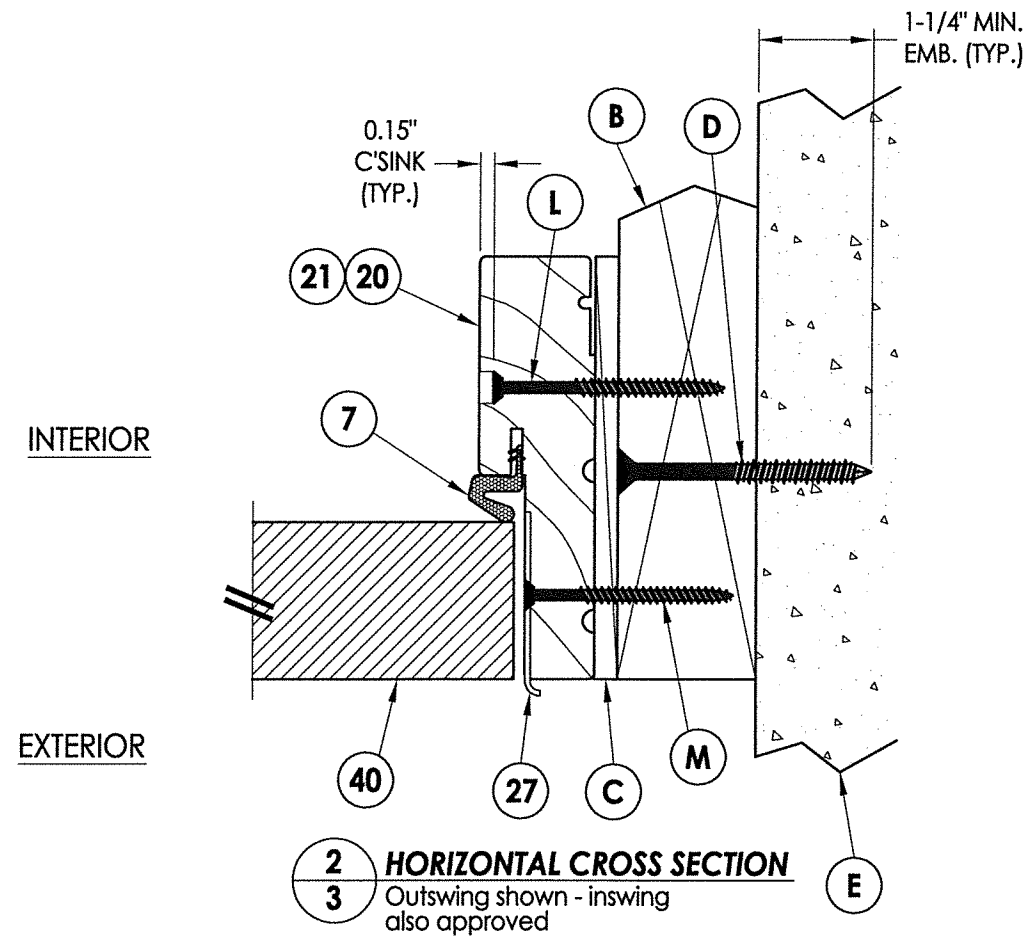
4 HORIZONTAL CROSS SECTION
3 Shown w/ Steel Stud Framing Option



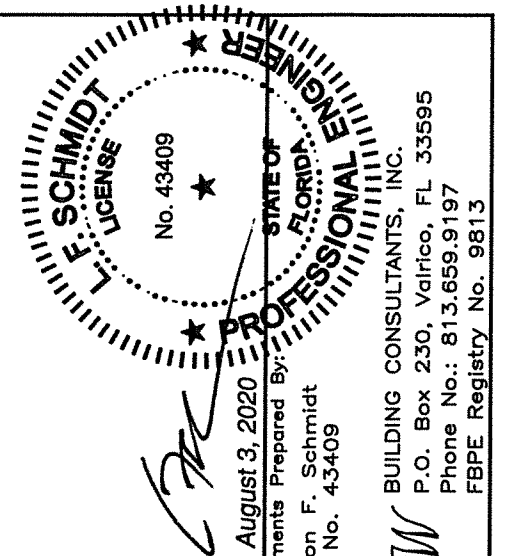
1 HORIZONTAL CROSS SECTION
3 Outswing shown - inswing also approved



3 HORIZONTAL CROSS SECTION
3 Shown w/1X sub-buck



2 HORIZONTAL CROSS SECTION
3 Outswing shown - inswing also approved



August 3, 2020
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PRODUCT:		DOERS FIBERGLASS DOOR	
		PART OR ASSEMBLY:	
		HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
3	7/30/20	LFS	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	LFS	ADD STEEL STUD ANCHORING
1	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC
DATE: 09/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.16			
SHEET 3 OF 7			

Technical cross-section diagram of a roof assembly. The diagram is divided into two main sections: EXTERIOR (left) and INTERIOR (right), separated by a break symbol (//). The assembly consists of several layers and components:

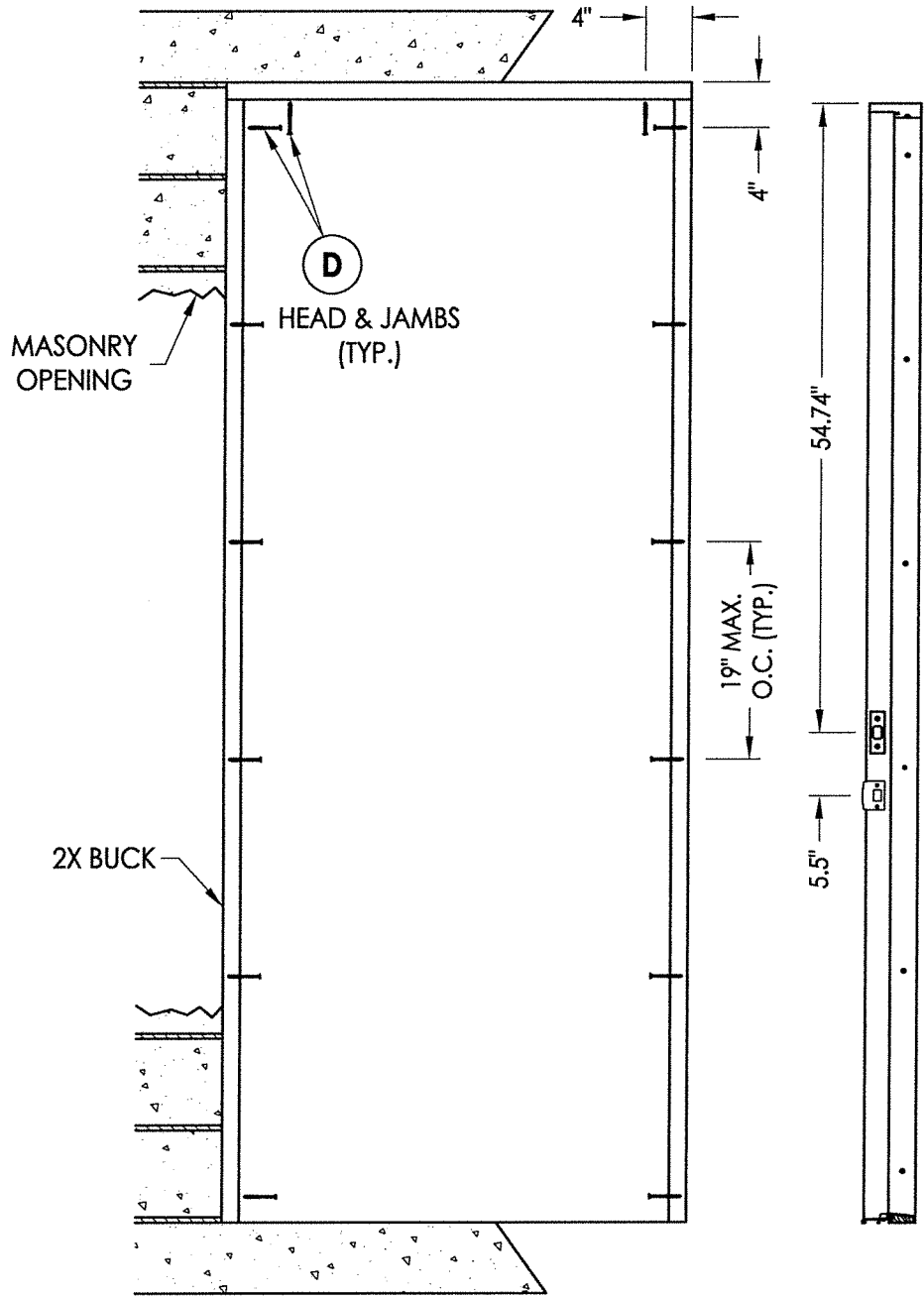
- Exterior Layer (Top):** A sloped surface with a granular texture, indicated by callout **E**.
- Insulation Layer:** A thick, hatched layer below the exterior surface, indicated by callout **A**.
- Structural Layer:** A solid layer below the insulation, indicated by callout **C**.
- Interior Layer (Bottom):** A sloped surface with a granular texture, indicated by callout **J**.
- Fasteners:** A vertical screw or bolt, indicated by callout **7**, passes through the insulation and structural layers.
- Sealant:** A wavy line representing a sealant or gasket, indicated by callout **20**, is located at the interface between the insulation and the structural layer.
- Dimensions:** A vertical dimension line on the right indicates a minimum thickness of **1-1/4" MIN.** for the insulation layer, with the note **EMB. (TYP.)** (Embedded Typical).


August 3, 2020
Plans Prepared By: L. F. Schmidt
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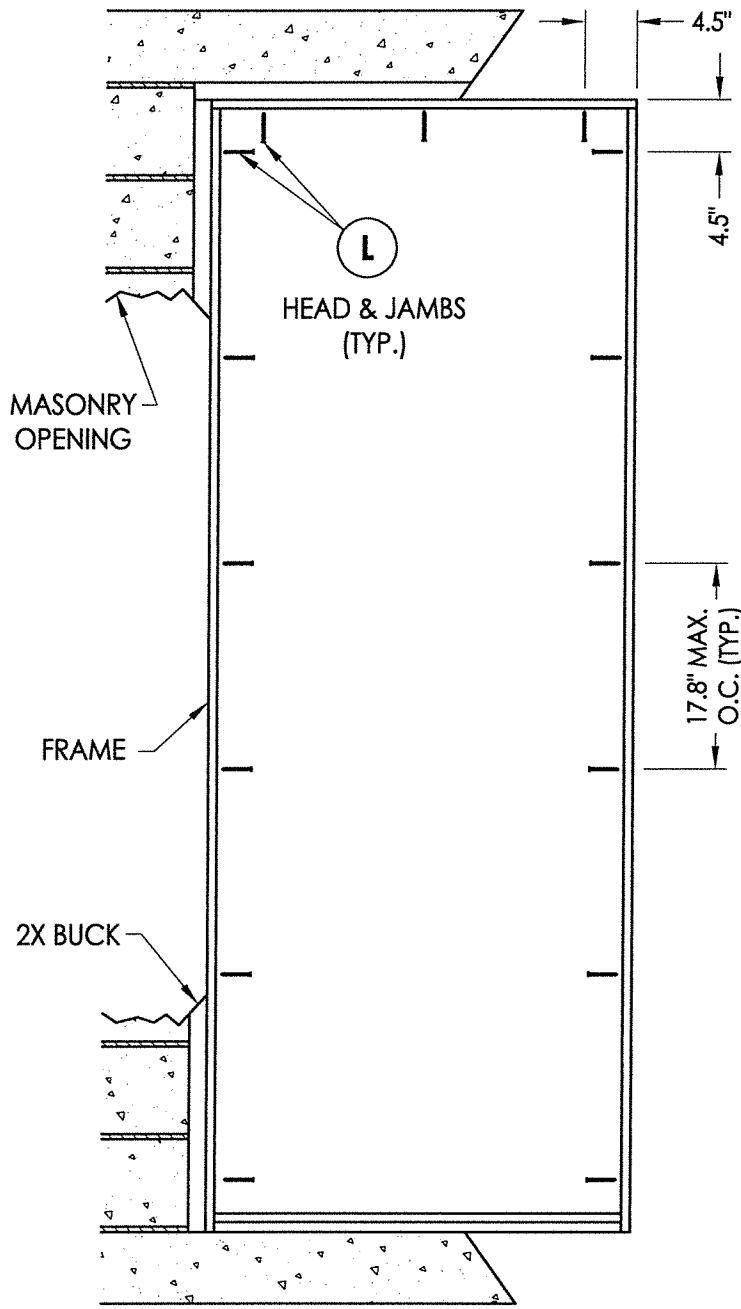
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R:\Clients\Doors PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.11-20.dwg, 5.6



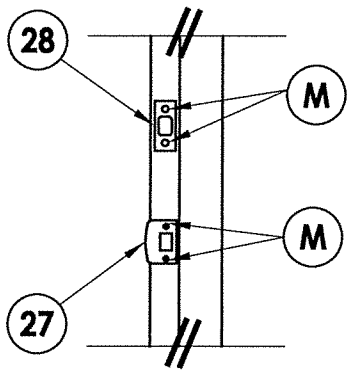
BUCK ANCHORING

STRIKE JAMB

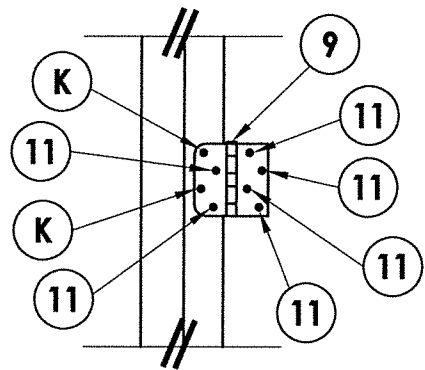


FRAME ANCHORING
Masonry 2X buck construction

HINGE JAMB



LATCH & DEADBOLT DETAIL



HINGE DETAIL

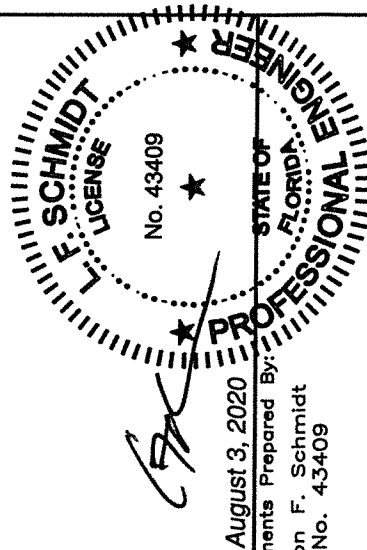
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRA CON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



August 3, 2020

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: DOERS FIBERGLASS DOOR
PART OR ASSEMBLY: BUCK AND FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION

NO.	DATE	REVISIONS
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	5/15/19	ADD STEEL STUD ANCHORING
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC

DATE: 09/28/15

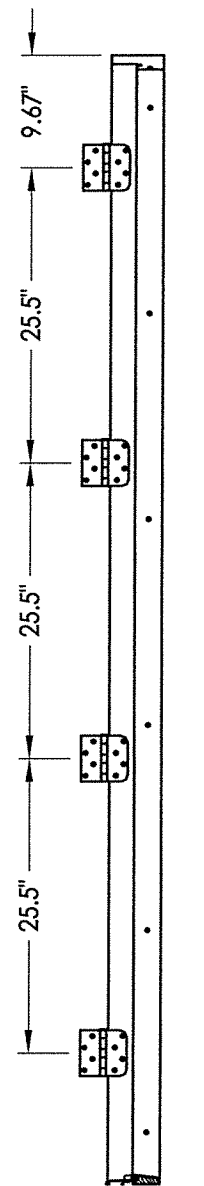
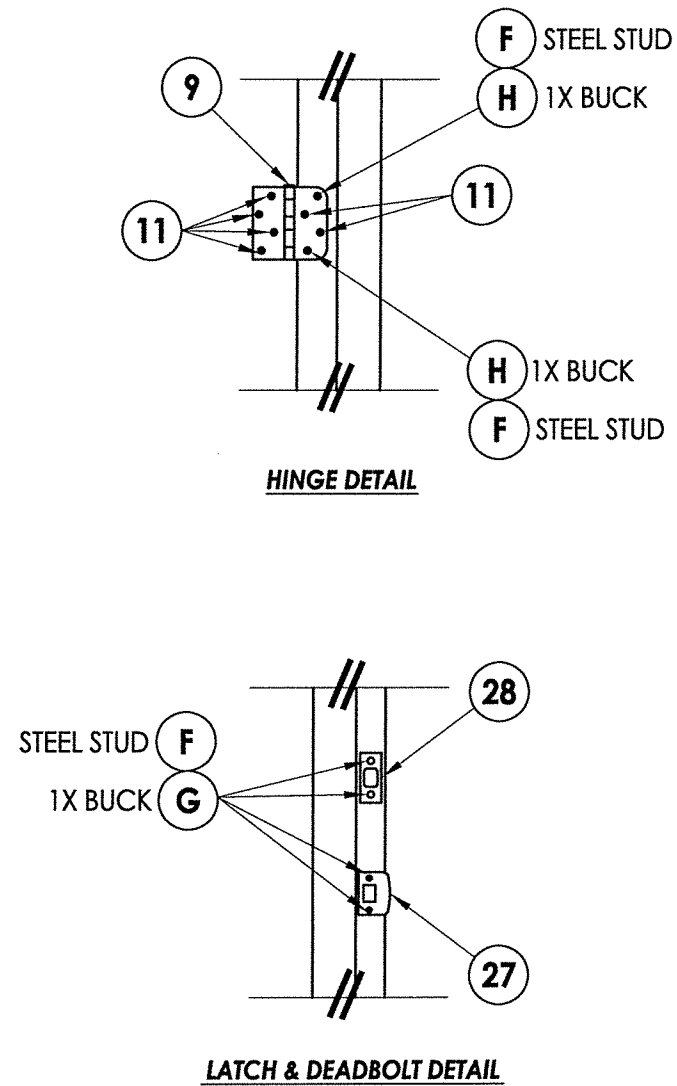
SCALE: N.T.S.

DWG. BY: JK

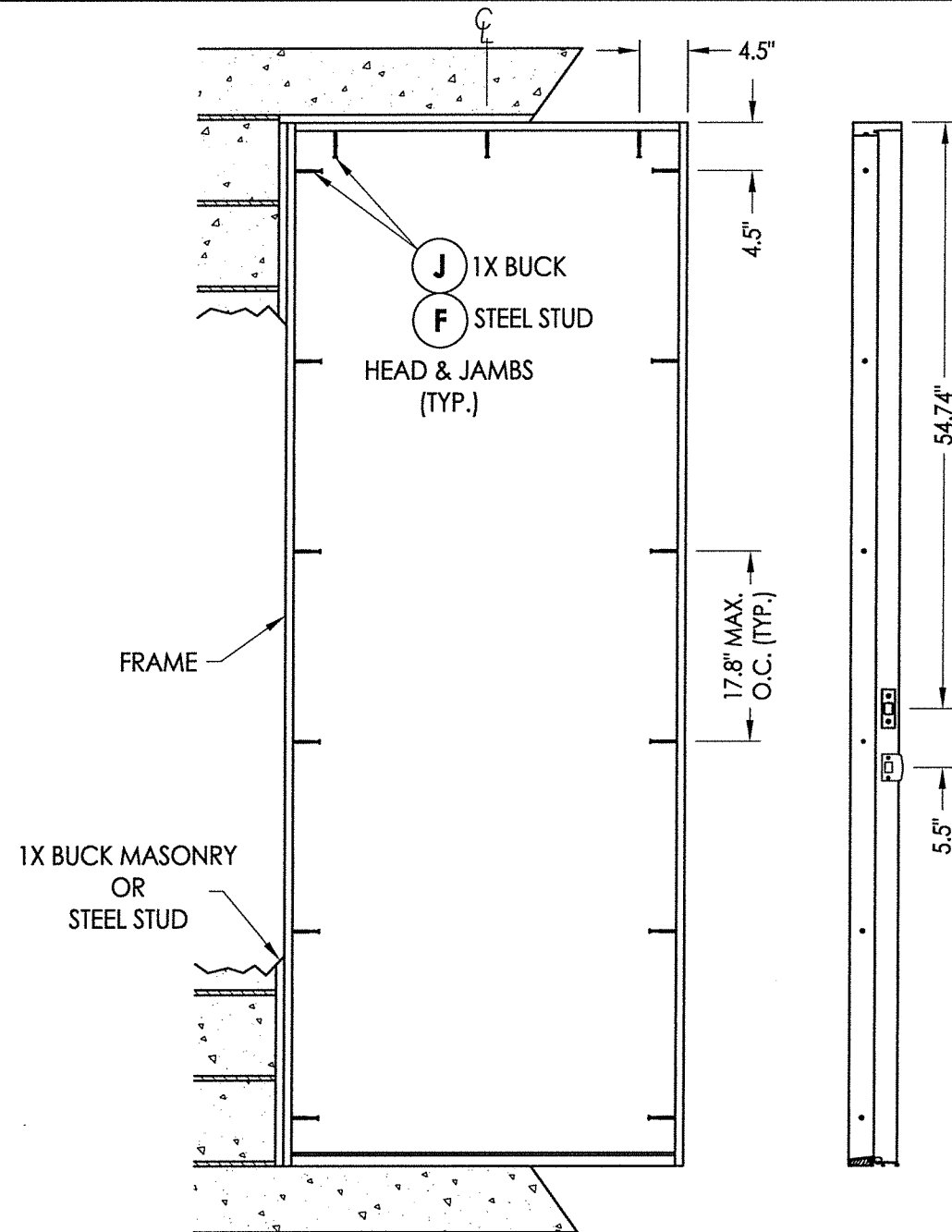
CHK. BY: LFS

DRAWING NO.: FL-19007.16

SHEET 5 OF 7



HINGE JAMB



FRAME ANCHORING
Masonry 1X buck Construction
Steel Stud Construction

STRIKE JAMB

NOTE: ATTACH JAMBS TO HEAD & SILL w/ (2) #8 X 2" PFH WOOD SCREWS @ EACH CORNER (TYP.)

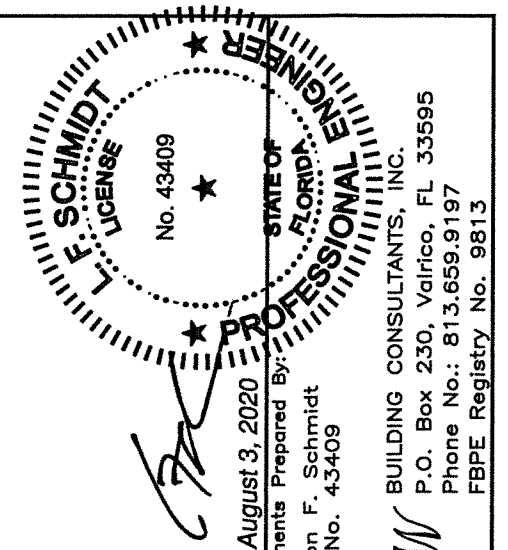
CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

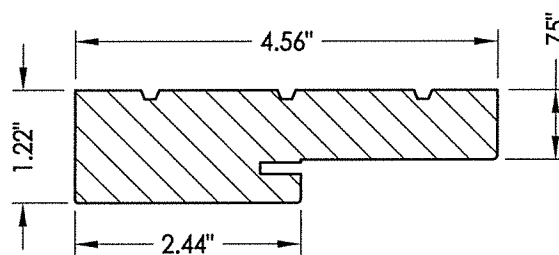
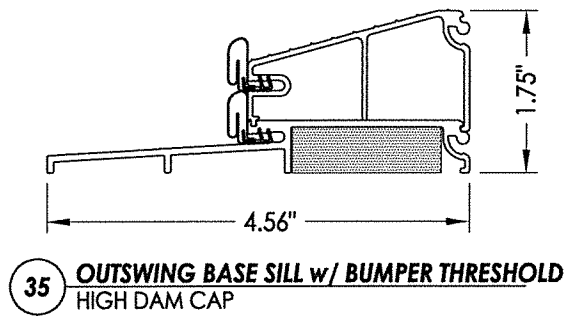
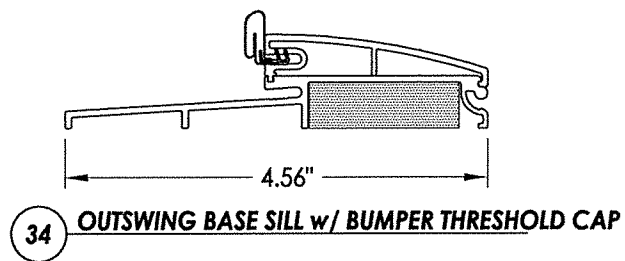


August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
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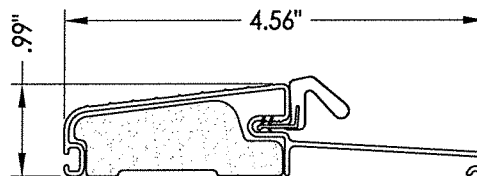
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION	
REVISIONS		DATE	BY
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC	LFS
2	5/15/19	ADD STEEL STUD ANCHORING	LFS
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
	NO.	DATE	BY
DATE: 09/28/15		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-19007.16		SHEET 6 OF 7	

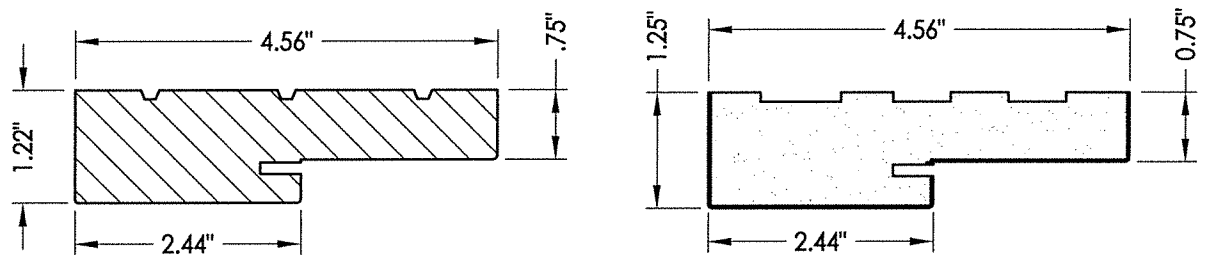
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10-16 PFH SELF-DRILLING SMS	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	3/16" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL
K	#9 X 2-1/2" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
M	#9 X 2-1/4" PFH WOOD SCREW	STEEL
7	Q-LON 650 WEATHER STRIP SCHLEGEL	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
17	KWIKSET KEYED ENTRY - SIGNATURE SERIES	STEEL
18	KWIKSET DEADBOLT - SIGNATURE SERIES (780)	STEEL
20	FINGER JOINTED PINE FRAME, HEAD & HINGE JAMBS	WOOD
21	POLY FIBER JAMB	COMP. / VINYL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
30	WEATHER-STOP 3647 HOLM INDUSTRIES	VINYL
31	OUTSWING BUMP THRESHOLD	ALUM. / PVC
32	OUTSWING HIGH DAM BUMP THRESHOLD	ALUM. / WOOD
33	INSWING ADJUSTABLE THRESHOLD	ALUM. / WOOD
34	OUTSWING BASE SILL w/ BUMPER THRESHOLD CAP	ALUM. / COMP.
35	OUTSWING BASE SILL w/ BUMPER THRESHOLD HIGH DAM CAP	ALUM. / COMP.
38	GLAZING SPACER	ALUM.
39	GLAZING BEAD	PVC
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
41	DOOR SKIN (MIN. 0.095" THICK)	FIBERGLASS
42	TOP RAIL	CELLULAR PVC
43	LATCH & HINGE STILE	CELLULAR PVC
44	LATCH & HINGE STILE SUPPORT	WOOD
45	BOTTOM RAIL	CELLULAR PVC
46	POLYURETHANE FOAM	POLYURETHANE
47	STILE STIFFENER REINFORCEMENT	STEEL
48	REINFORCEMENT RETAINING SCREW	NYLON
49	GLAZING COMPOUND DOW 995	SILICONE



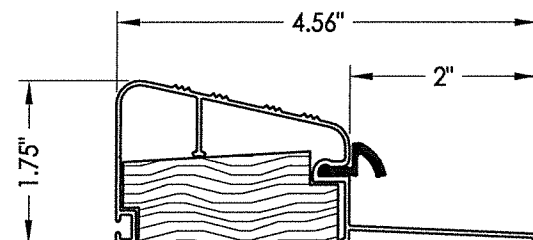
20 HEAD & SIDE
Wood Jamb



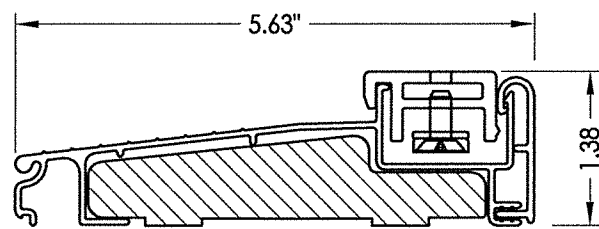
31 OUTSWING BUMP THRESHOLD



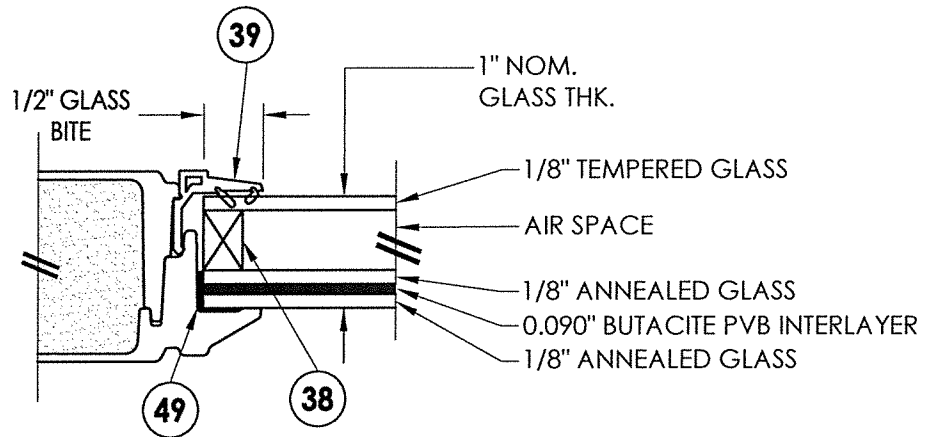
21 HEAD & SIDE
Poly fiber jamb



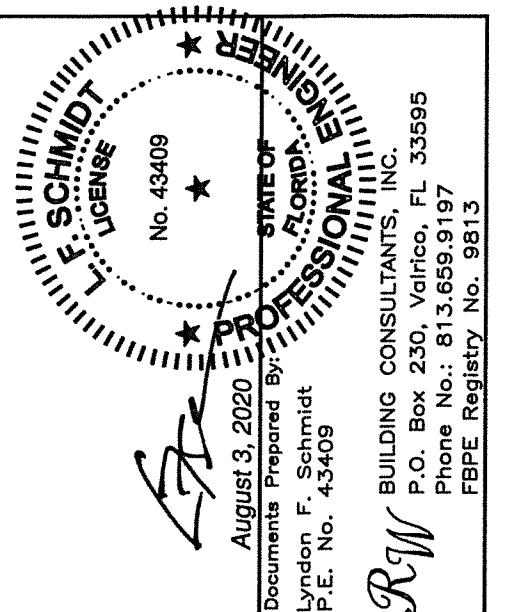
32 OUTSWING HIGH DAM BUMP THRESHOLD
DLP (QOSR)



33 ADJUSTABLE INSWING THRESHOLD



G1 GLAZING DETAIL



PRODUCT:	DOERS FIBERGLASS DOOR
PART OR ASSEMBLY:	BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS

[illegible]

DATE:	09/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-19007.16
SHEET	7 OF 7