



DIAMOND DOOR SERIES

FLUSH GLAZED FIBERGLASS DOOR w/ SIDELITE

INSWING / OUTSWING

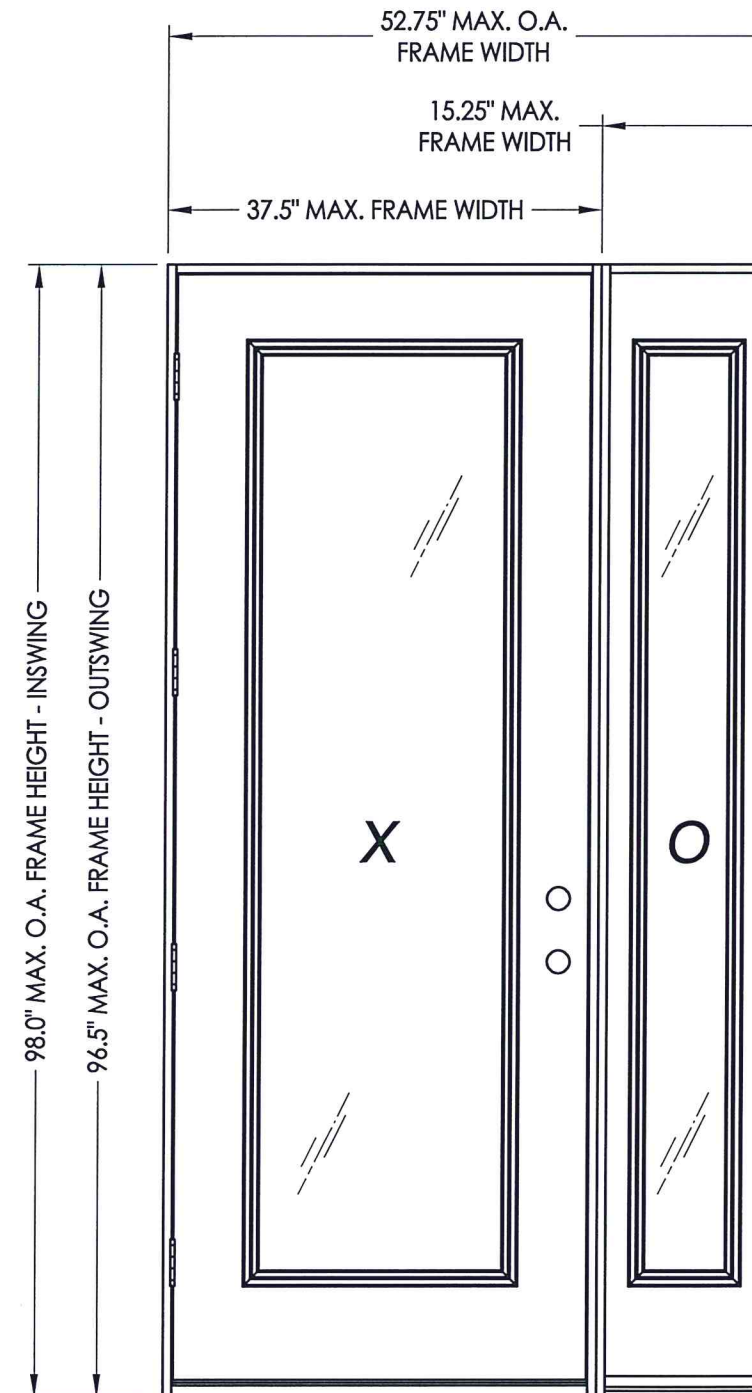
"IMPACT"

GENERAL NOTES

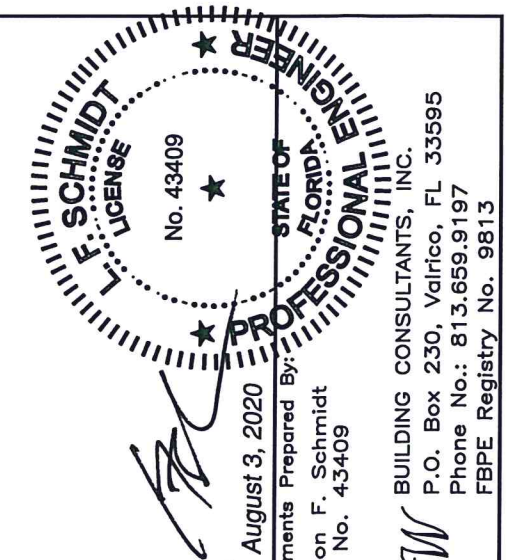
- This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 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.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 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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1	Typical elevation, design pressures, & general notes
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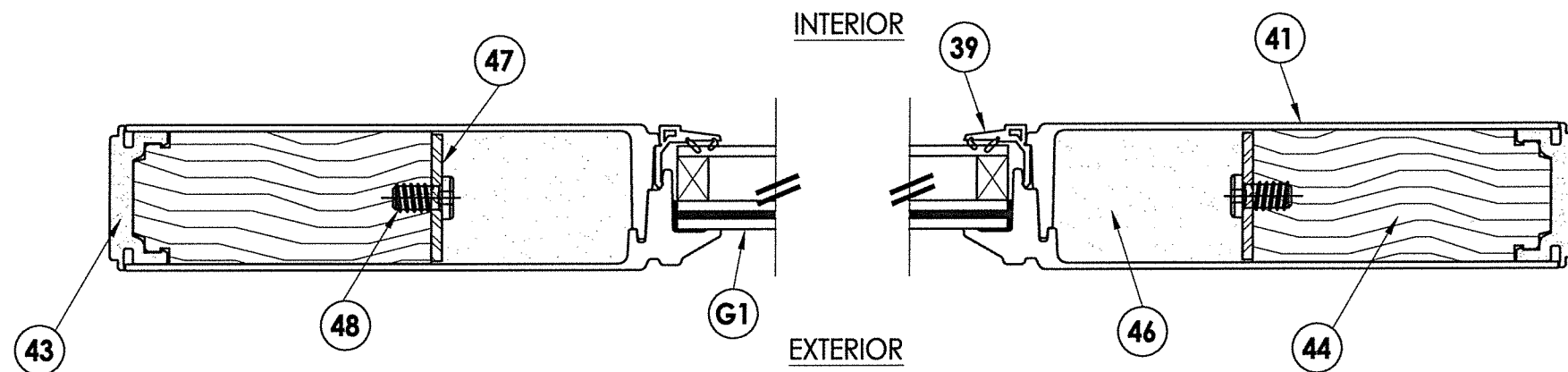
SWING	OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	SIDELITE D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
INSWING	52.75" x 98.0"	21.0" x 79.0"	7.0" x 79.0"	G1	+42.0	-47.5
OUTSWING	52.75" x 96.5"	21.0" x 79.0"	7.0" x 79.0"		+42.0	-42.0



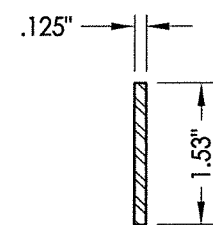
August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

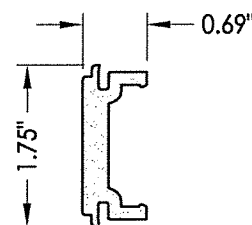
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PART OR ASSEMBLY:		TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES	
NO.	DATE	REVISIONS	
		LFS	JK
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC	
2	5/15/19	ADD STEEL STUD ANCHORING	
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC	
DATE: 09/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.17			
SHEET 1 OF 9			



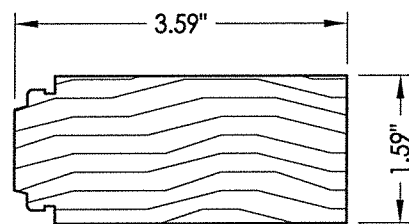
1 HORIZONTAL CROSS SECTION



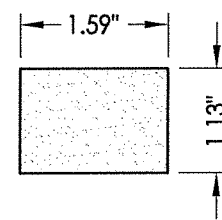
47 STILE STIFFENER
Steel reinforcement



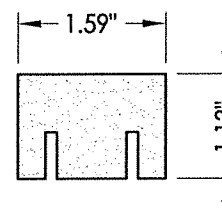
43 **LATCH & HINGE STILE**
Cellular PVC



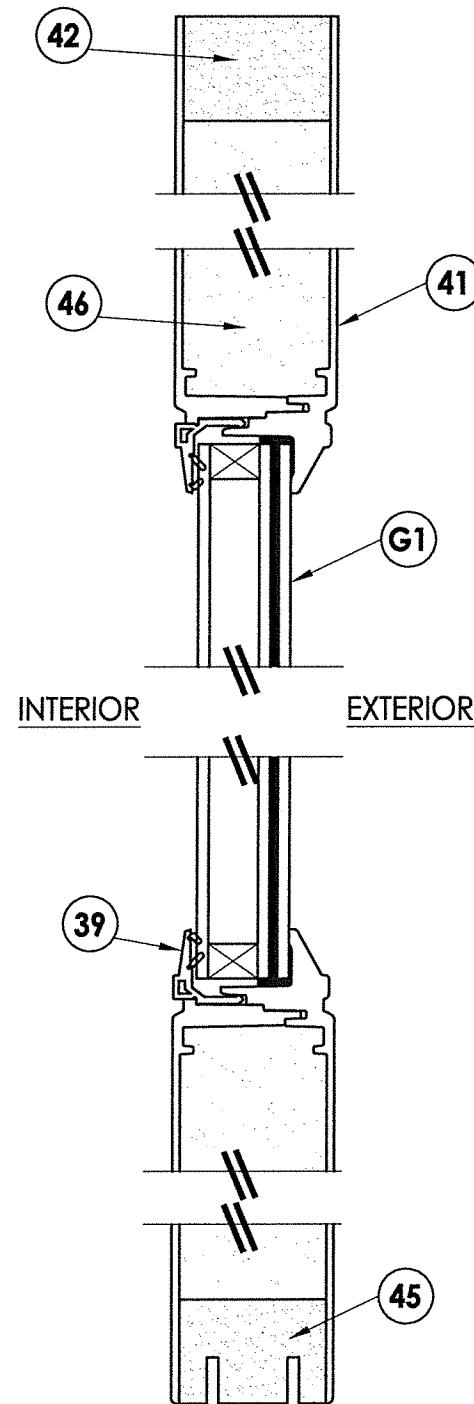
44 LATCH & HINGE STILE
Wood support



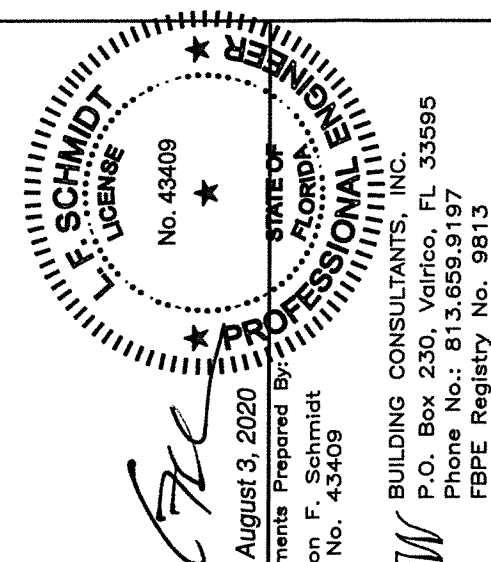
42 **TOP RAIL**
Cellular PVC



45 **BOTTOM RAIL**
Cellular PVC



2 VERTICAL CROSS SECTION



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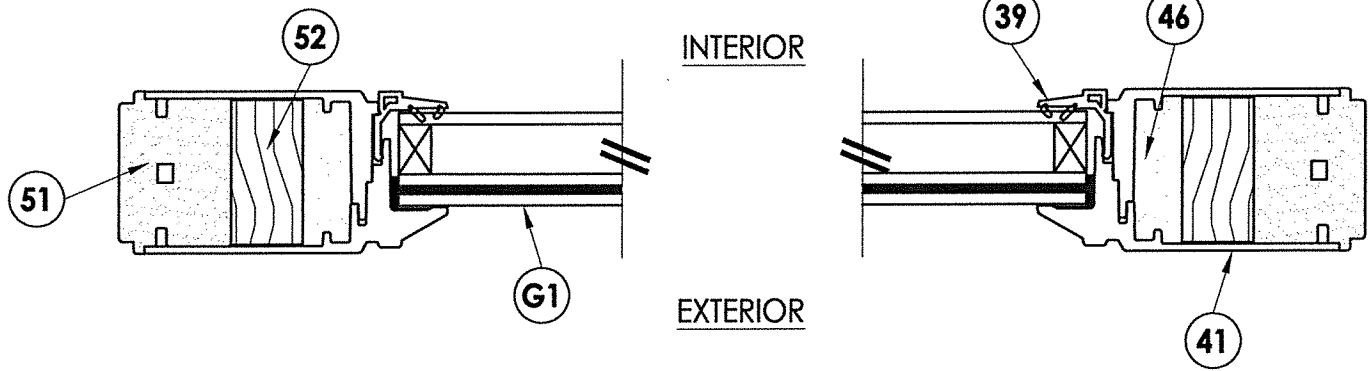
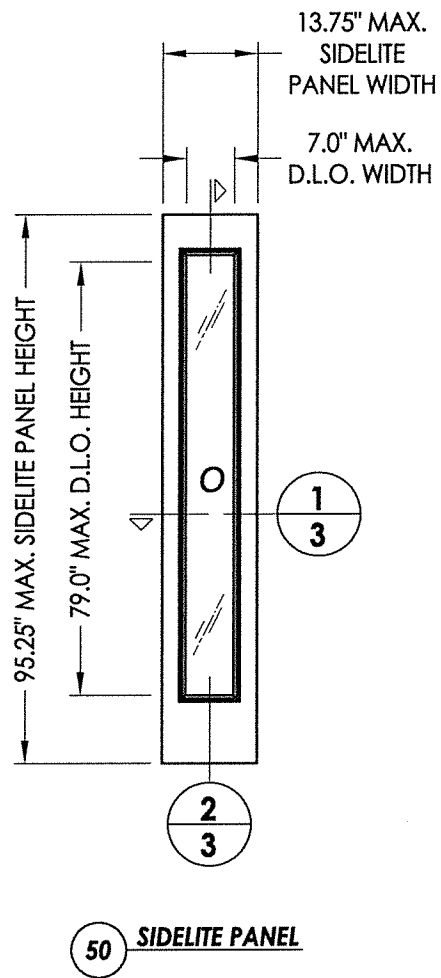
FBPE Registry No. 9813

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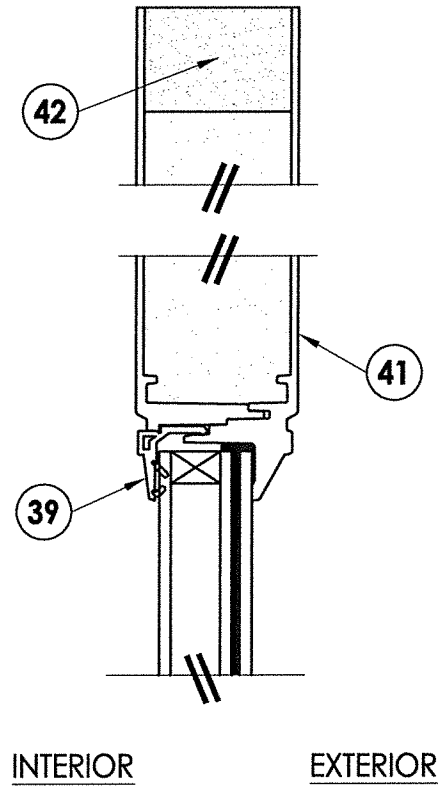
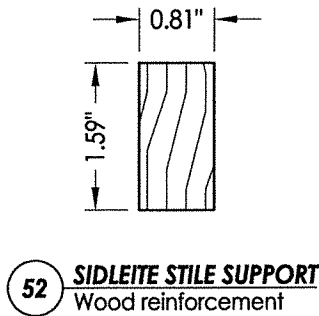
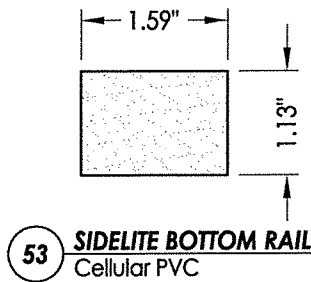
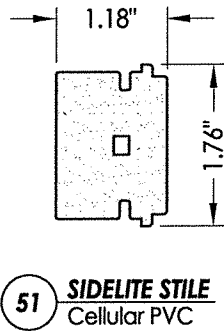
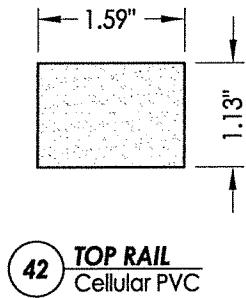
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PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC LFS
2	5/15/19	ADD STEEL STUD ANCHORING	LFS
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC JK
NO.	DATE		BY
REVISIONS			
DATE: 09/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.17			
SHEET 2 OF 9			

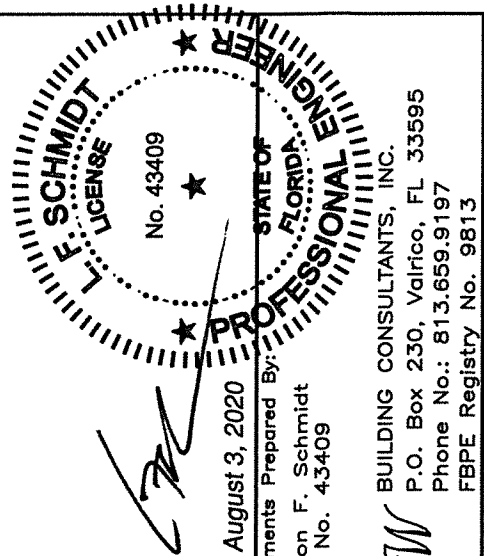
R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.11-20.dwg, 3.7



1
3 HORIZONTAL CROSS SECTION



2
3 VERTICAL CROSS SECTION

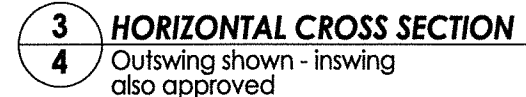
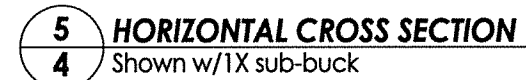


August 3, 2020

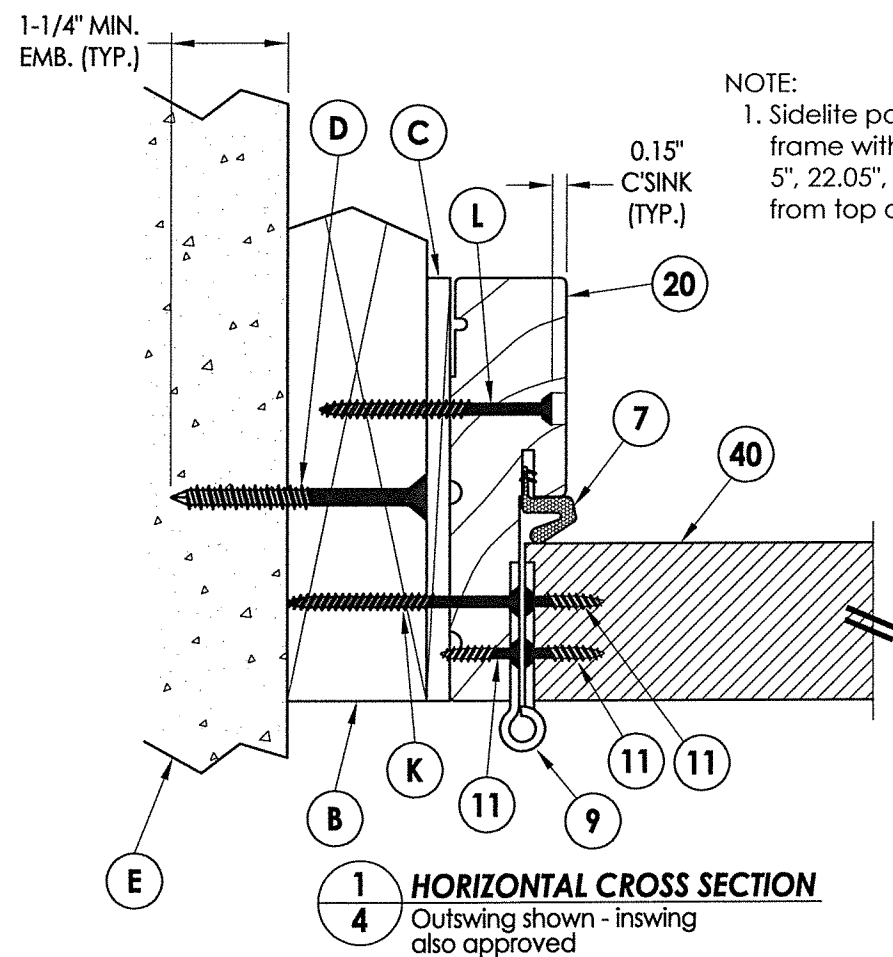
Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
REVISIONS		NO.	DATE
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
			BY
DATE: 09/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.17			
SHEET 3 OF 9			



1. Sidelite panel secured to the sidelite frame with (6) of item #22 located 5", 22.05", 39.10", 56.15", 73.2" & 90.25" from top of each jamb and (2).



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PRODUCT:		DOERS FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
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	
				REVISIONS	
DATE: 09/28/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.17					
SHEET 4 OF 9					

Technical cross-section diagram of a window assembly. The diagram shows the exterior (left) and interior (right) views. Key components and labels include:

- E**: Exterior weatherstripping or seal.
- J**: Joint or gap between the storm door and the main door.
- A**: Storm door frame or body.
- C**: Main door frame or body.
- 40**: Storm door handle or latch mechanism.
- 7**: Storm door hinge or pivot point.
- 20**: Main door handle or latch mechanism.
- 1-1/4" MIN. EMB. (TYP.)**: Minimum embedding depth of the storm door into the main door frame.

The diagram illustrates the assembly of a storm door onto a main door, showing the various seals, hinges, and hardware required for proper installation and operation.

A cross-sectional view of a window assembly. The diagram is divided into two sections: **EXTERIOR** on the left and **INTERIOR** on the right. The exterior side shows a sloped frame profile labeled **33**. The interior side shows a vertical frame profile labeled **40**. A horizontal component, likely a sash or pane, is labeled **30** and is positioned between the two frame profiles. The assembly is mounted on a base, which is labeled **E** and contains a textured, speckled material. The window assembly is shown in a closed position.



[Signature]

August 3, 2020

Certs Prepared By: _____
John F. Schmidt
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August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

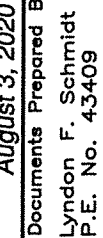
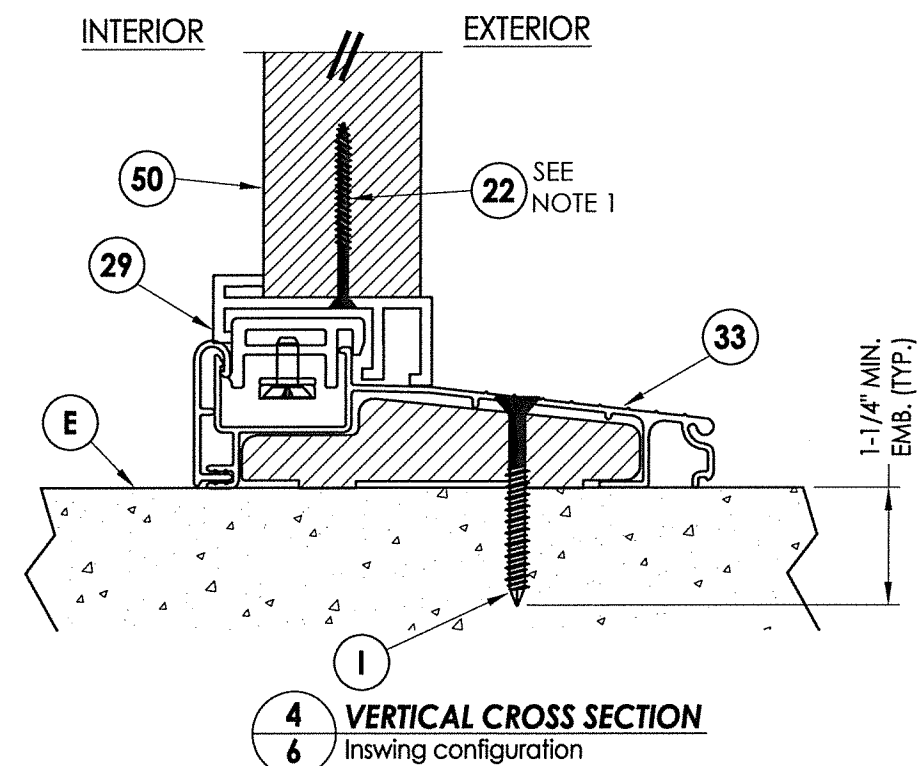
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PRODUCT:		DOERS FIBERGLASS DOOR		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	5/15/19	ADD STEEL STUD ANCHORING		LFS	
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
NO.	DATE			BY	
					REVISIONS
DATE: 09/28/15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



NOTE:

1. Sidelite panel secured to the sidelite frame with (2) of item #22 in the head and sill 3" from each end.



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SCALE: N.T.S.		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.17			
SHEET 6 OF 9			

HINGE JAMB

Diagram illustrating the dimensions and hinge placement for a Hinge Jamb. The jamb is shown with four hinges. The dimensions are:

- 25.5" (between the first and second hinge)
- 25.5" (between the second and third hinge)
- 25.5" (between the third and fourth hinge)
- 9.67" (from the top edge to the first hinge)

Technical drawing of a window frame assembly. The drawing includes a cross-section view on the left and a side elevation view on the right.

Labels and Dimensions:

- MASONRY OPENING:** Points to the opening in the masonry wall.
- FRAME:** Points to the window frame.
- 2X BUCK:** Points to the bucking material.
- HEAD & JAMBS (TYP.):** Points to the top and side frame members.
- (L):** Circular callout for a fastener (likely a screw or nail).
- (F):** Circular callout for a fastener (likely a screw or nail).
- (I):** Circular callout for a fastener (likely a screw or nail).
- (5) (TYP.):** Circular callout for a fastener (likely a screw or nail).
- TYP. @ SILL:** Text indicating typical fastener placement at the sill.
- 14.5" MAX. O.C. (TYP.):** Dimension for the maximum on-center spacing of fasteners.
- 17.8" MAX. O.C. (TYP.):** Dimension for the maximum on-center spacing of fasteners.
- 4.5":** Dimension for the width of the frame or bucking material.
- 6":** Dimension for the height of the frame or bucking material.

FRAME ANCHORING

STRIKE JAMB

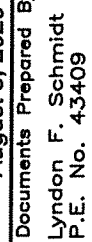
STRIKE JAMB

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 ULTRACON®	1/4"	1-1/4"	1"	4"

HINGE DETAIL

LATCH & DEADBOLT DETAIL

LATCH & DEADBOLT DETAIL



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[illegible]

Diagram showing the front elevation of the cabinet with dimensions for the drawers:

- Top drawer: 9.67" wide, 25.5" high
- Second drawer: 25.5" high
- Third drawer: 25.5" high
- Bottom drawer: 25.5" high

4.5"

6"

J 1X BUCK

P STEEL STUD

HEAD & JAMBS (TYP.)

MASONRY OPENING

FRAME

1X BUCK

5 (TYP.)

14.5" MAX. O.C. (TYP.)

J

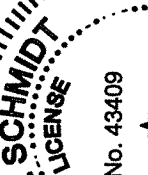
17.8" MAX. O.C. (TYP.)

F

I TYP. @ SILL

F

I



August 3, 2020

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PART OR ASSEMBLY:
FRAME ANCHORING 1X BUCK
MASONRY CONSTRUCTION

BUILDING CONSULTANTS, INC.
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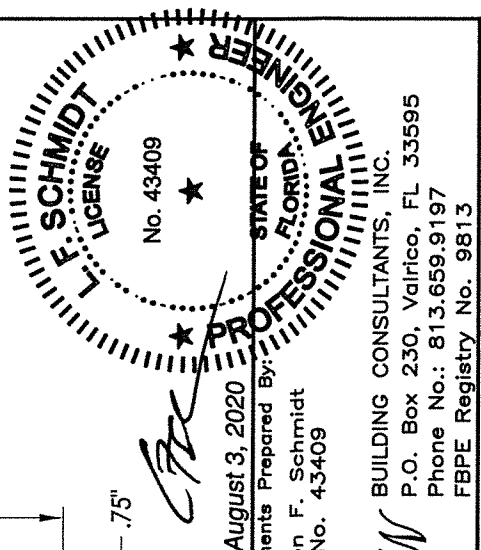
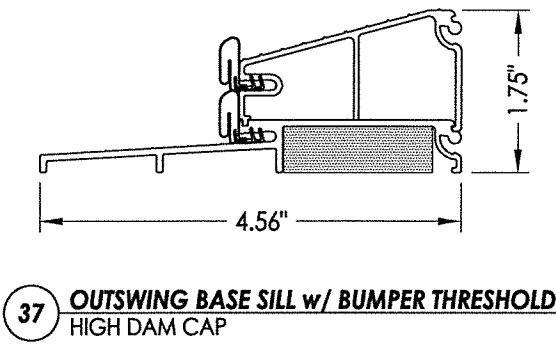
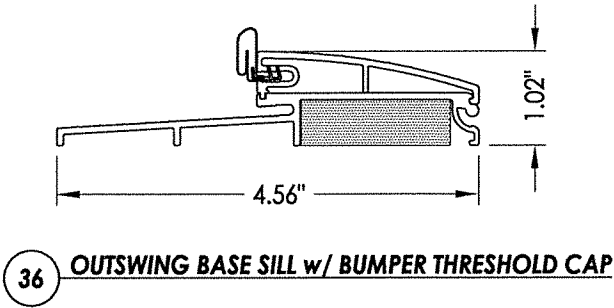
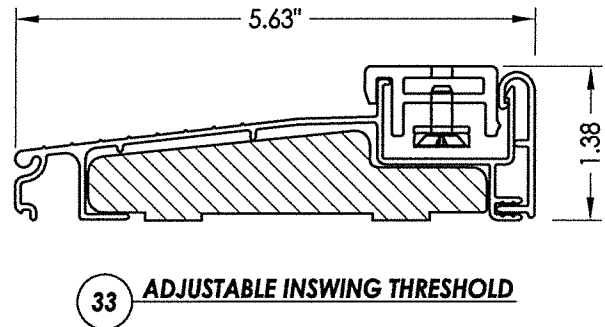
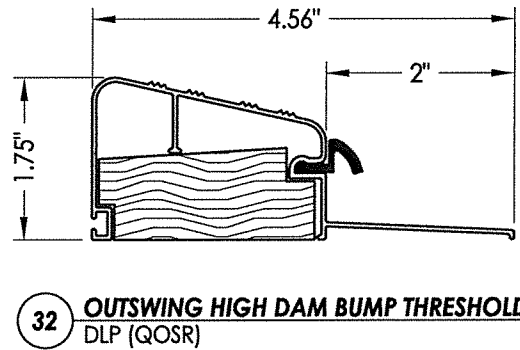
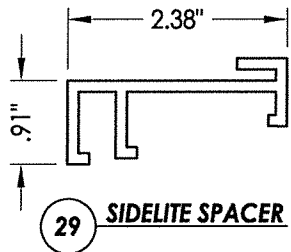
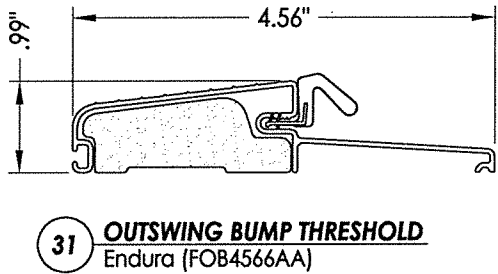
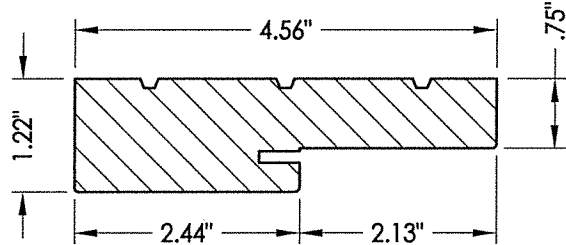
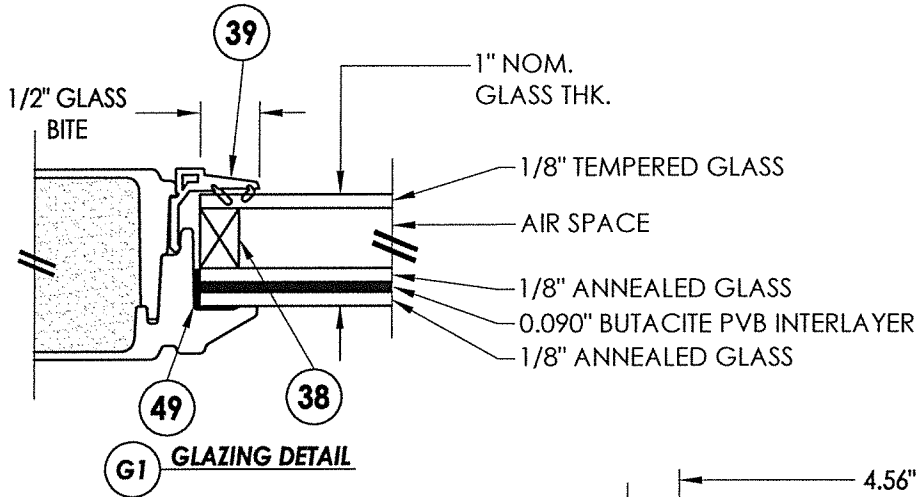
DATE:	09/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-19007.17
SHEET	8 OF 9

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"

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

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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	1/4" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL
H	3/16" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL
I	1/4" X 2-1/4" 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
P	#10-16 PFH SELF-DRILLING SMS	STEEL
5	#10 X 2" PFH SCREW	STEEL
6	SEALANT	SILICONE
7	Q-LON 650 WEATHER STRIP SCHLEGEL	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
12	#9 X 2" 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
22	#8 X 2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	SIDELITE SPACER	PVC
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
35	SHOE MOULD 5/8" X 3/8"	WOOD
36	OUTSWING BASE SILL w/ BUMPER THRESHOLD CAP	ALUM. / COMP.
37	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
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
51	SIDELITE STILE	CELLULAR PVC
52	SIDELITE STILE SUPPORT	WOOD
53	SIDELITE BOTTOM RAIL	CELLULAR PVC



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PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS	
REVISIONS		NO.	DATE
		3	7/30/20
		2	5/15/19
		1	9/26/17
		DATE	
DATE: 09/28/15		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-19007.17		SHEET 9 OF 9	