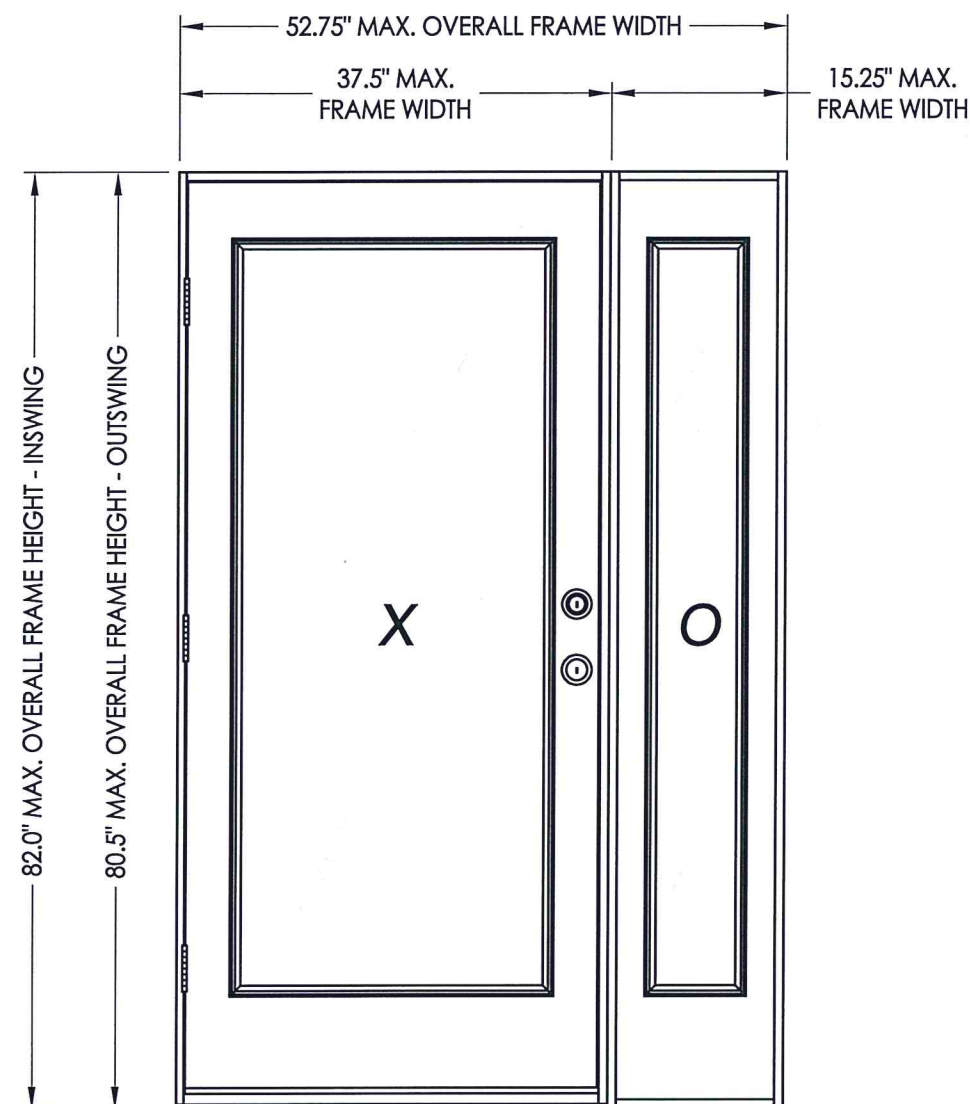




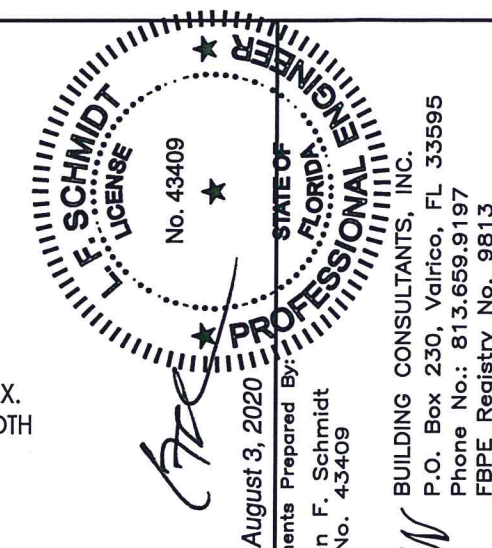
DIAMOND DOOR SERIES
FLUSH GLAZED FIBERGLASS DOOR w/ SIDELITE
IN swing / OUT swing
"NON-IMPACT"

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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
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.

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



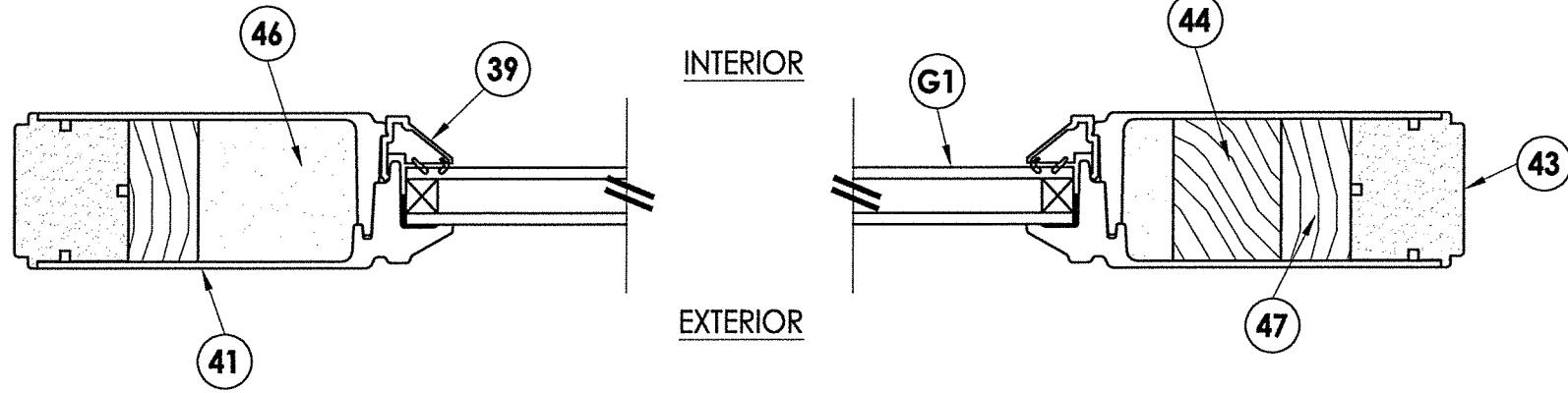
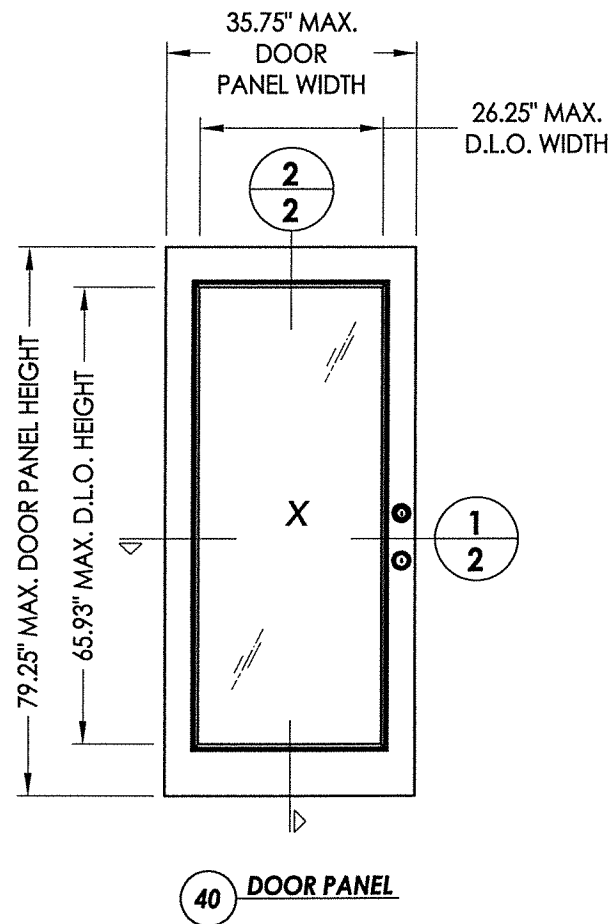
SWING	OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	SIDELITE D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
INSWING	52.75" x 82.0"	26.25" x 65.93"	7.0" x 65.93"	G1	+48.0	-50.0
OUTSWING	52.75" x 80.5"	26.25" x 65.93"	7.0" x 65.93"		+50.0	-54.0



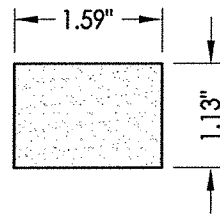
August 3, 2020
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

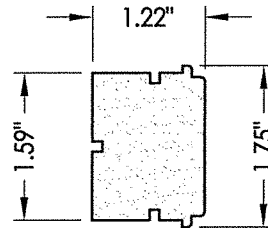
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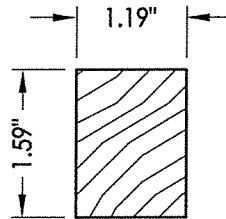
**1
2** HORIZONTAL CROSS SECTION



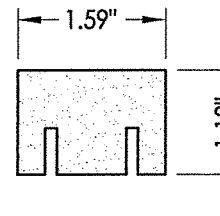
42 TOP RAIL
Cellular PVC



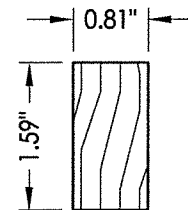
43 LATCH & HINGE STILE
Cellular PVC



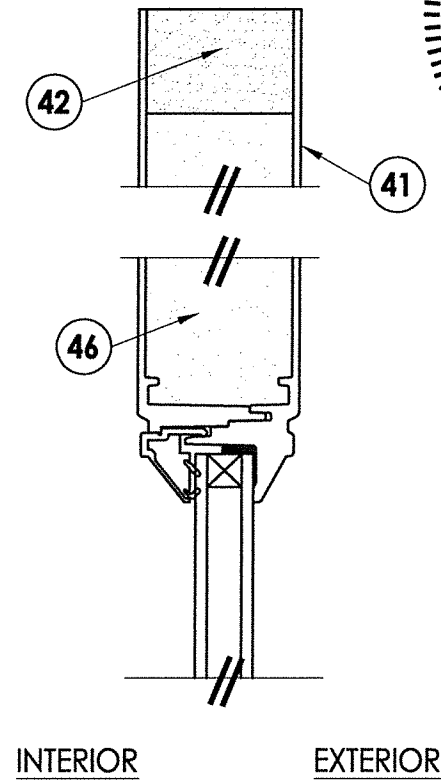
44 LOCK REINFORCEMENT
Wood



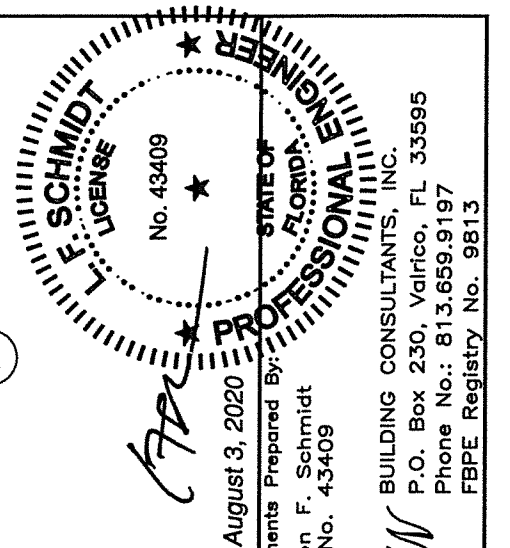
45 BOTTOM RAIL
Cellular PVC



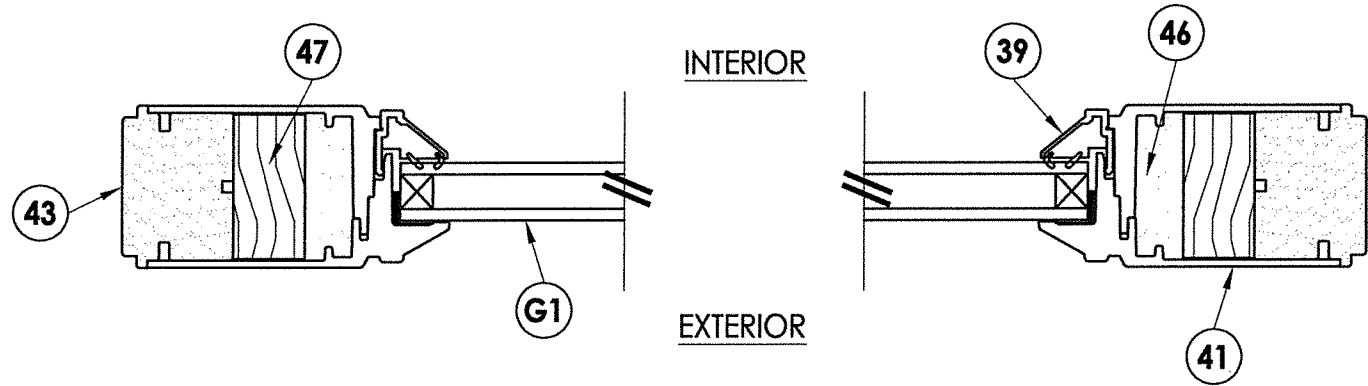
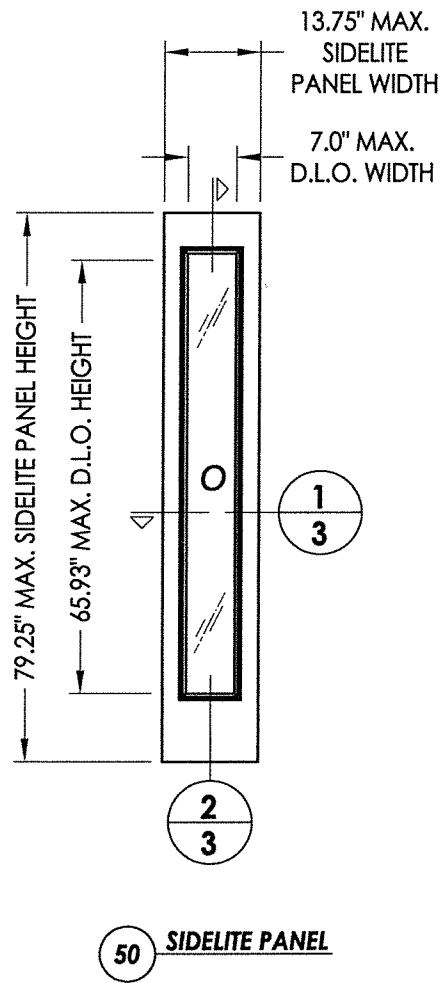
47 LATCH & HINGE STILE
LVL wood reinforcement



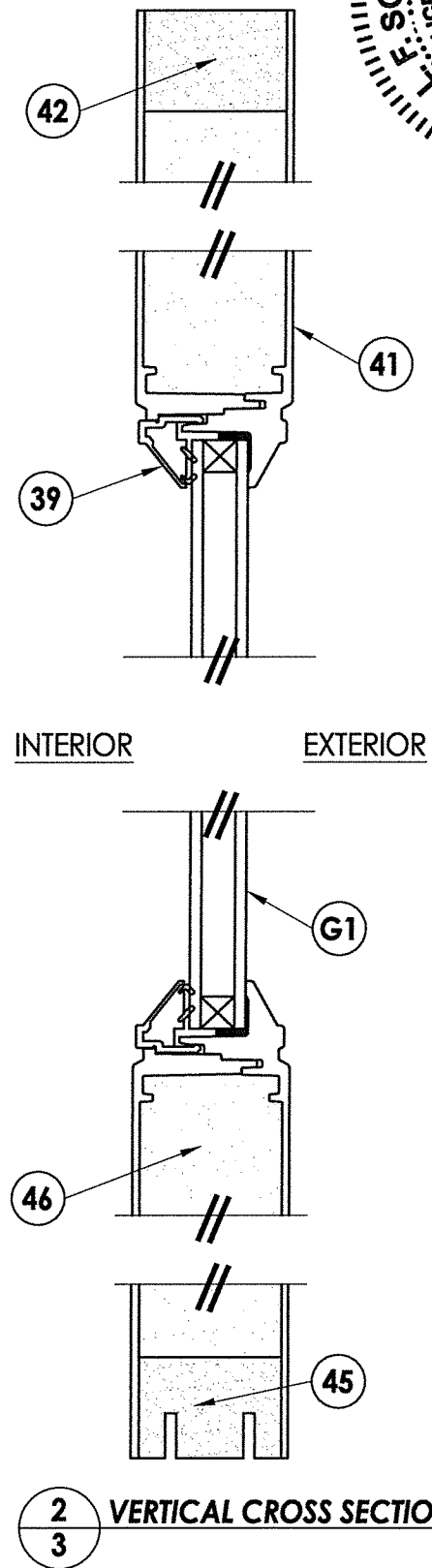
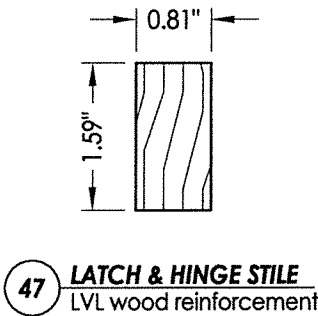
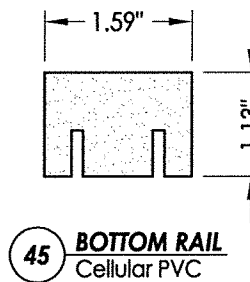
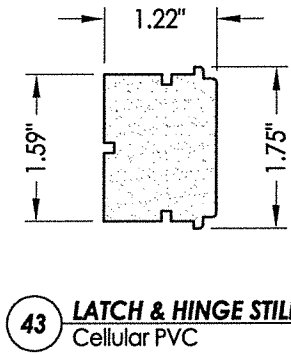
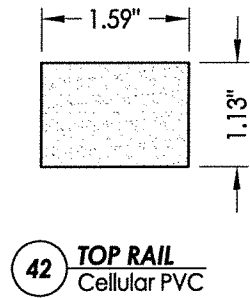
**2
2** VERTICAL CROSS SECTION



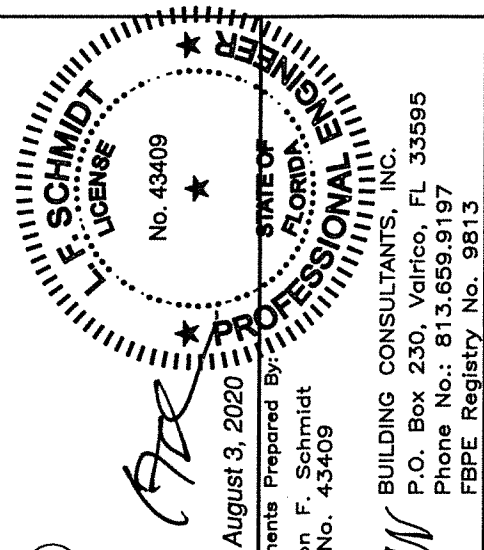
PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
NO	DATE	REVISIONS	
		BY	
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC	LFS
2	5/15/19	ADD STEEL STUD ANCHORING	LFS
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC	JK
DATE: 09/22/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.2			
SHEET 2 OF 9			



1
3 HORIZONTAL CROSS SECTION



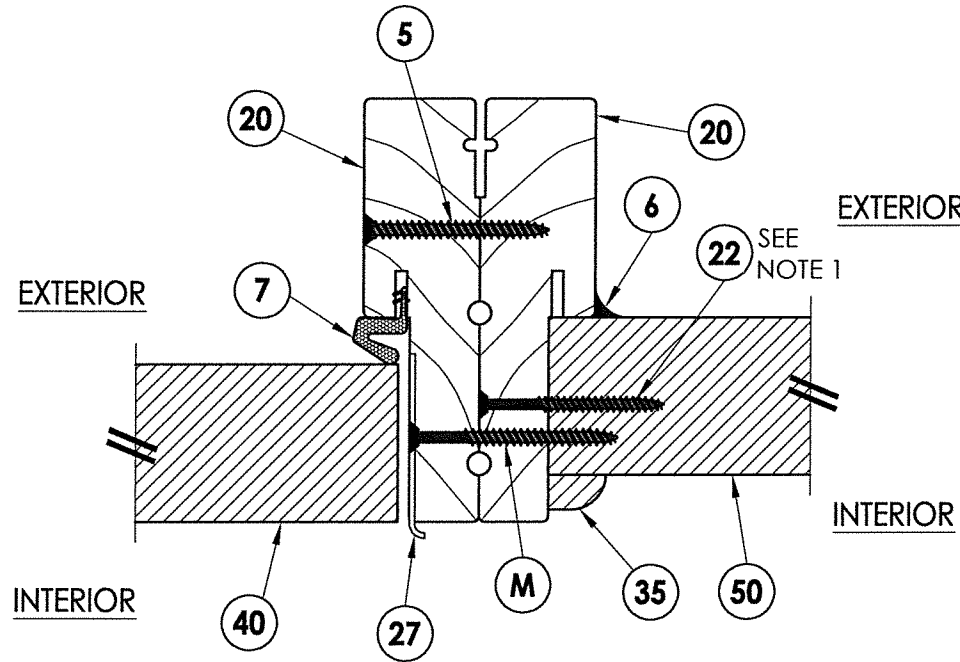
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3 VERTICAL CROSS SECTION



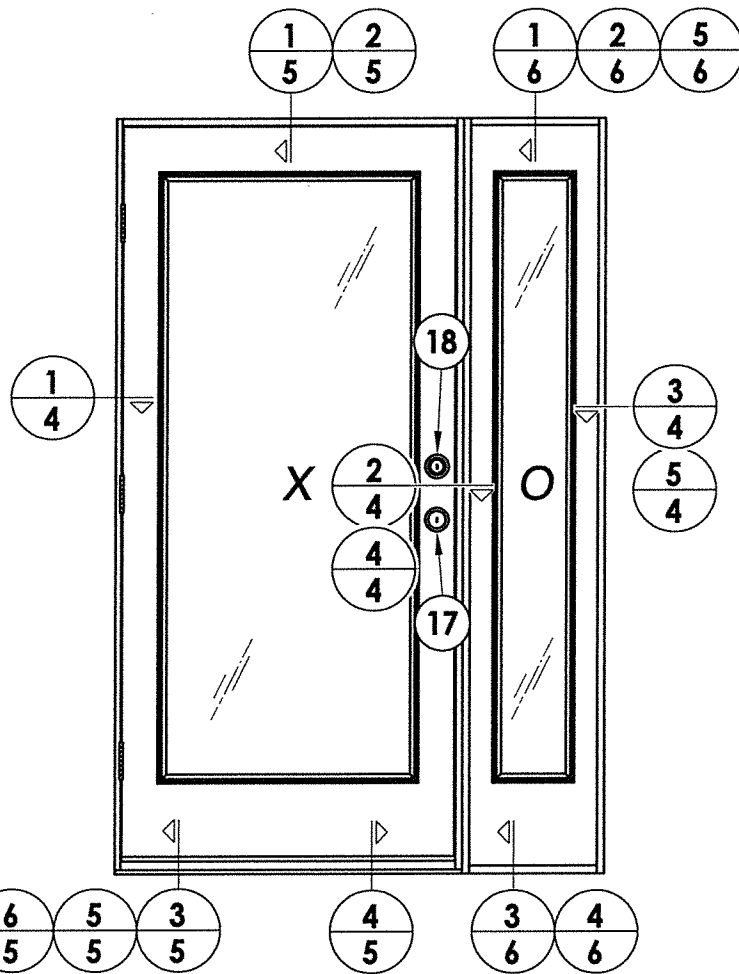
August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
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
NO.	DATE	BY	REVISIONS
DATE: 09/22/15		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-19007.2		SHEET 3 OF 9	

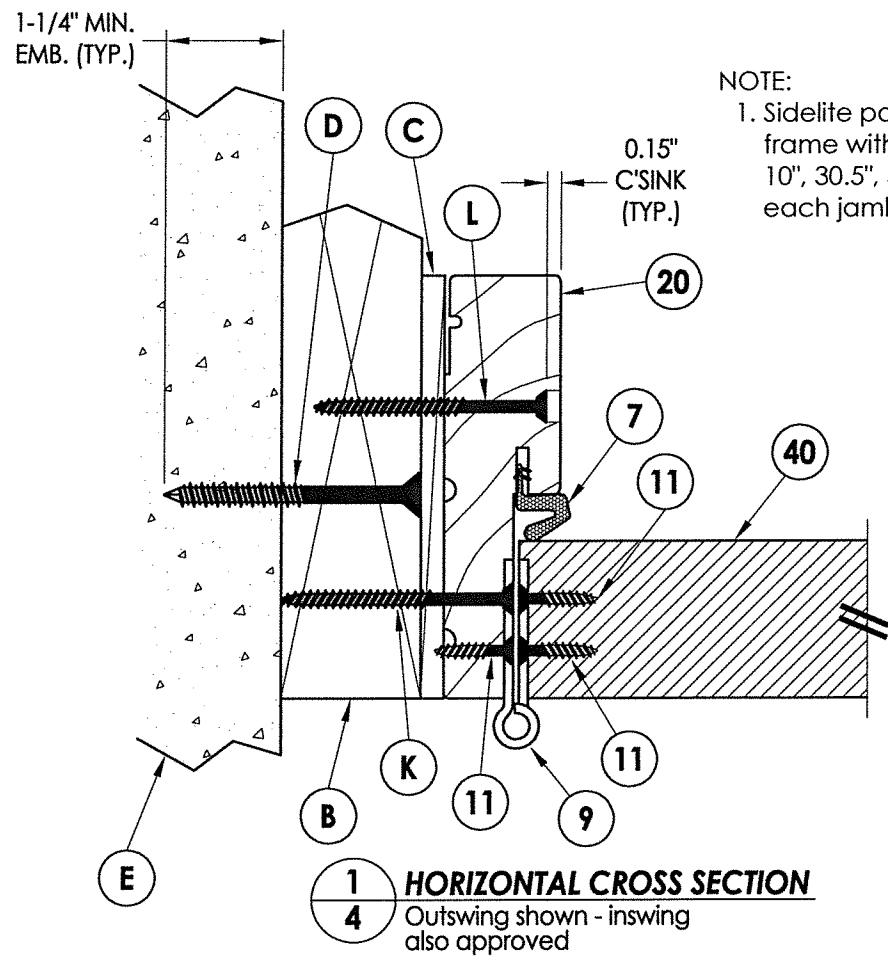
R:\Clients\Doors PERMANENTVA - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.1-10.dwg, 4.2



4 HORIZONTAL CROSS SECTION
4 Inswing configuration

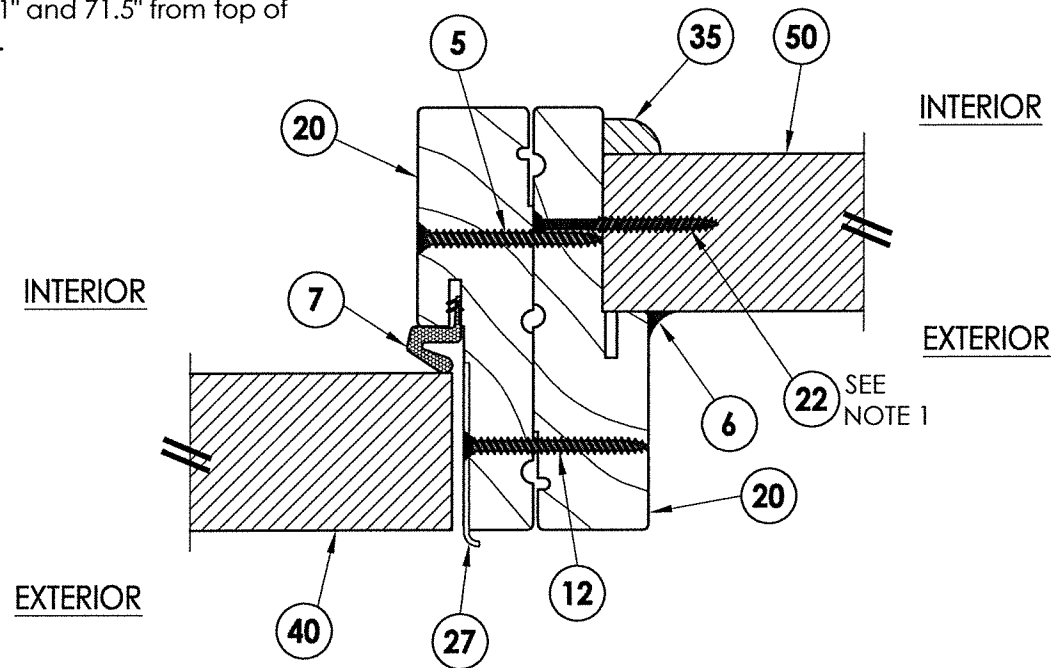


5 HORIZONTAL CROSS SECTION
4 Shown w/IX sub-buck

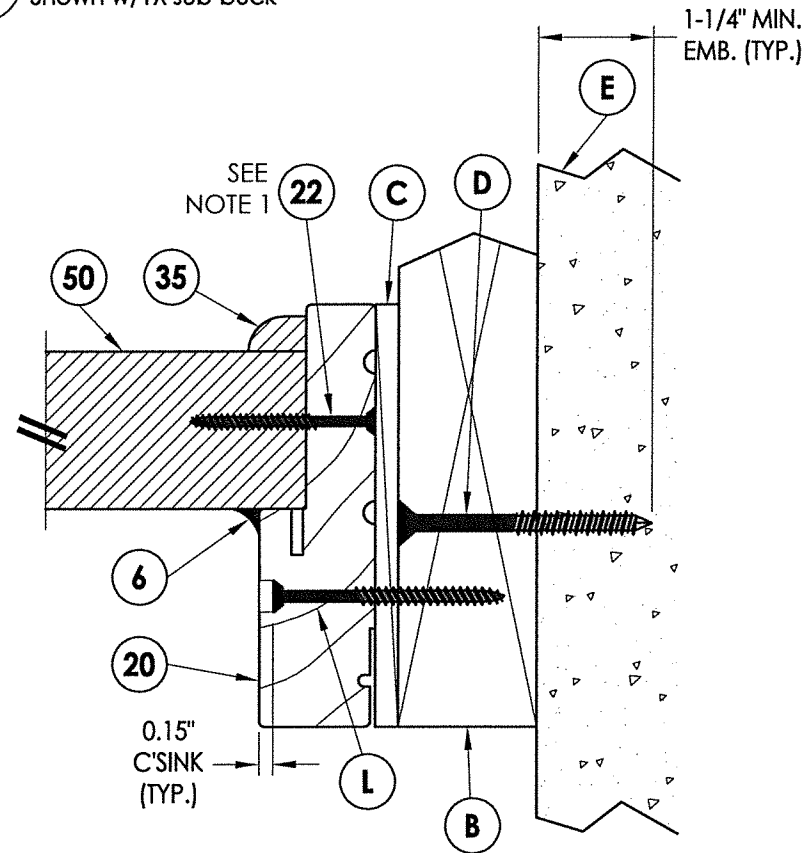
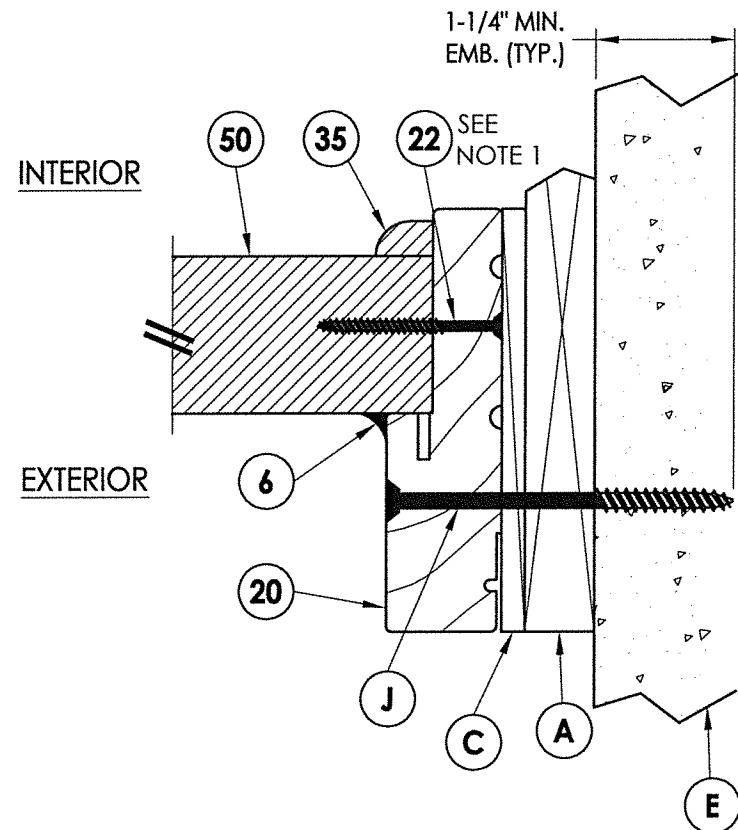


1 HORIZONTAL CROSS SECTION
4 Outswing shown - inswing also approved

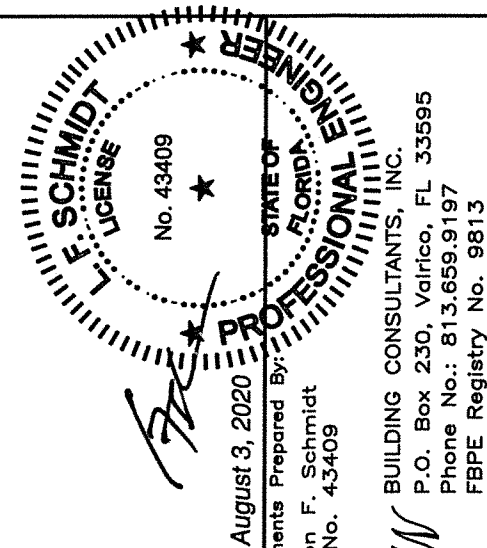
NOTE:
1. Sidelite panel secured to the sidelite frame with (4) of item #22 located 10", 30.5", 51" and 71.5" from top of each jamb.



2 HORIZONTAL CROSS SECTION
4 Outswing configuration



3 HORIZONTAL CROSS SECTION
4 Outswing shown - inswing also approved



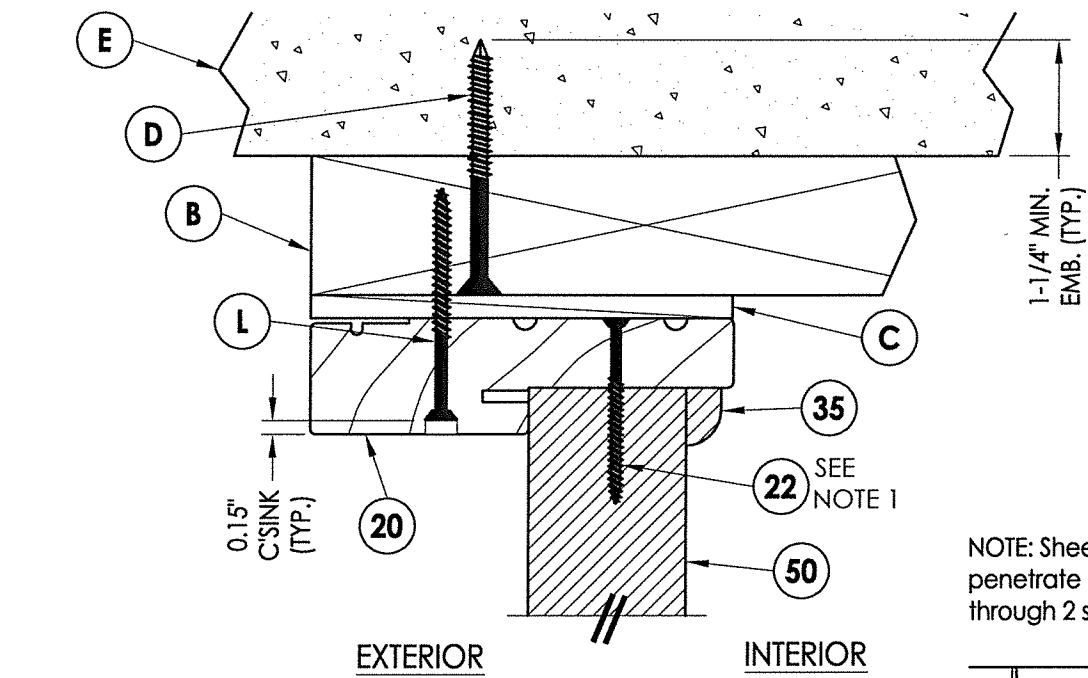
August 3, 2020
Documents Prepared By:
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P.E. No. 43409

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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: HORIZONTAL CROSS SECTIONS

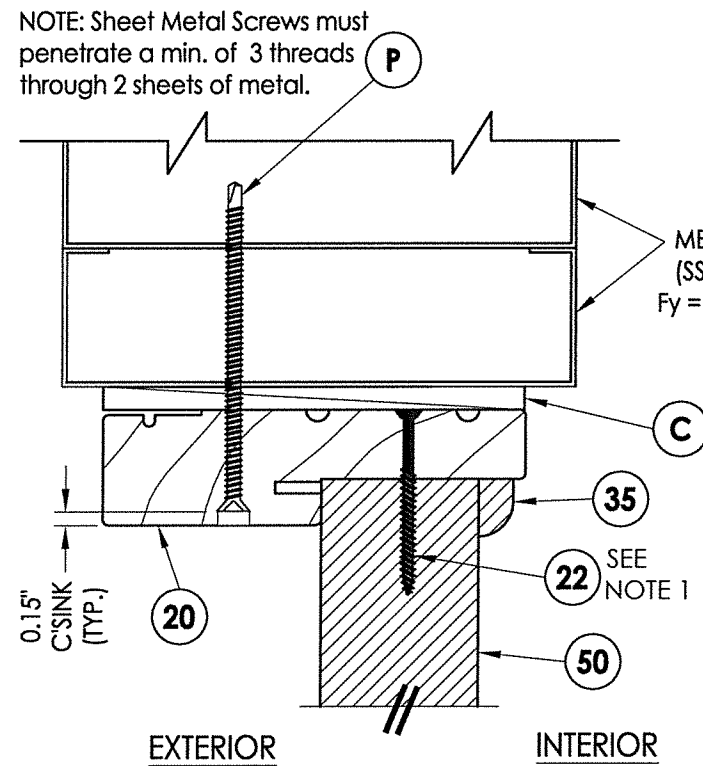
NO.	DATE	BY
3	7/30/20	LFS
2	5/15/19	LFS
1	9/26/17	JK

DATE: 09/22/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-19007.2
SHEET 4 OF 9



1 VERTICAL CROSS SECTION
6 Outswing shown - inswing also approved

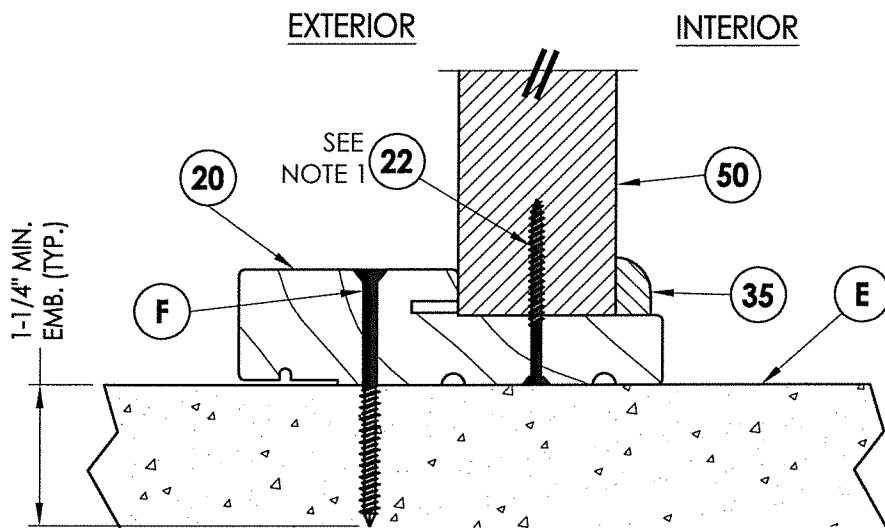
NOTE:
1. Sidelite panel secured to the sidelite frame with (2) of item #22 in the head and sill 3" from each end.



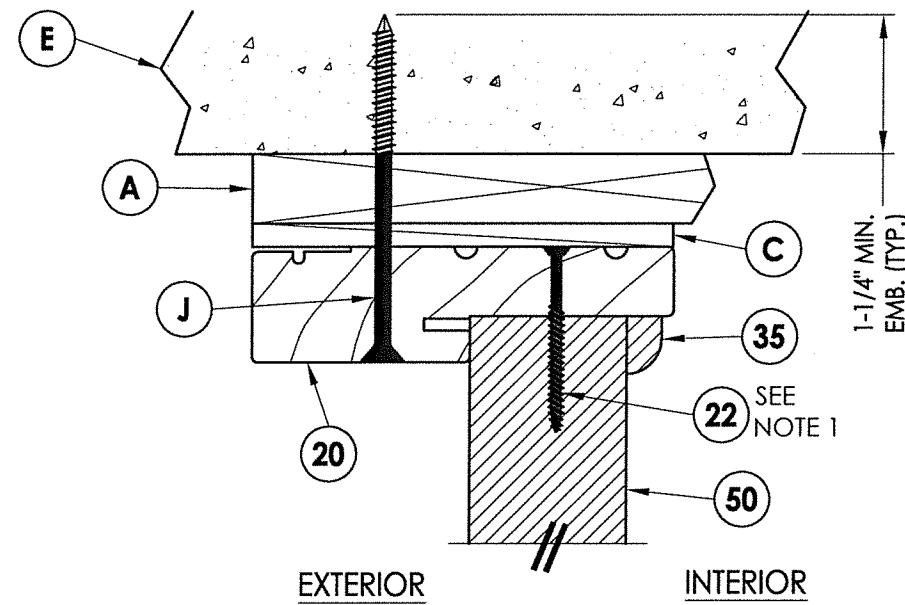
2 VERTICAL CROSS SECTION
6 Shown w/ 1X sub-buck

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

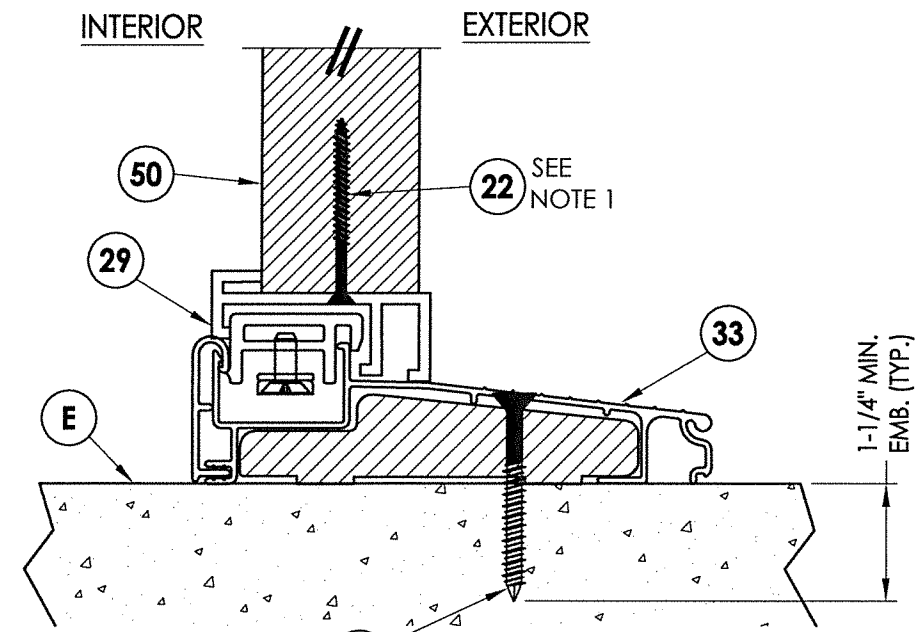
METAL STUDS BY OTHERS
(SSMA STUD 550S162-43,
Fy = 33 ksi, Fu = 45 ksi, MIN.)



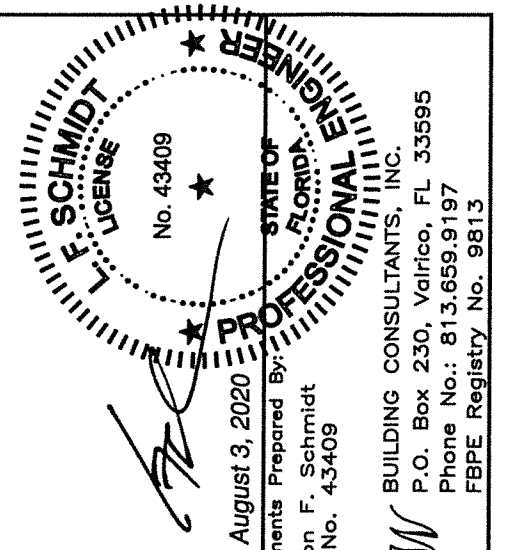
3 VERTICAL CROSS SECTION
6 Outswing configuration



4 VERTICAL CROSS SECTION
6 Inswing configuration



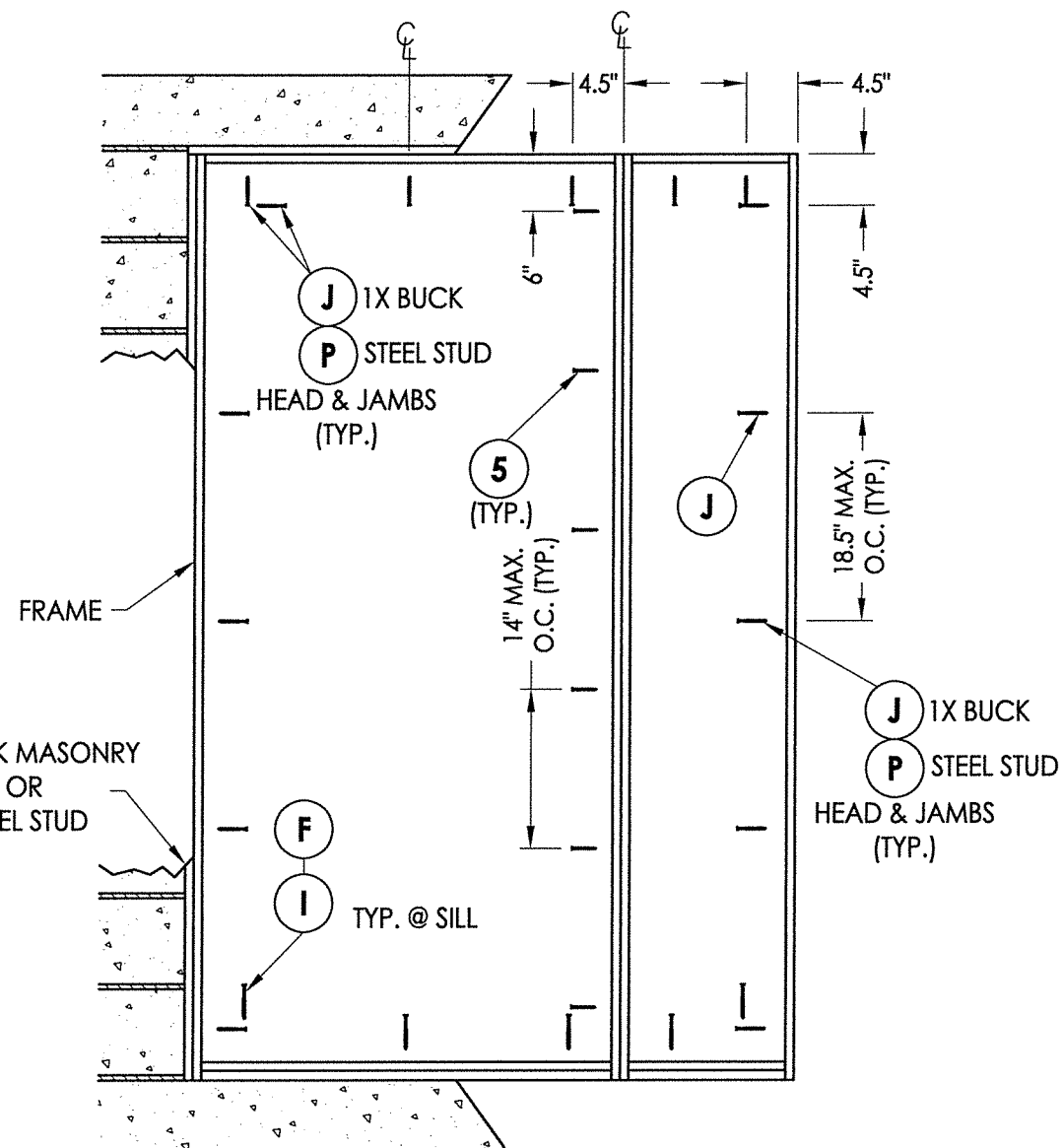
5 VERTICAL CROSS SECTION
6 Shown w/ Steel Stud Framing Option



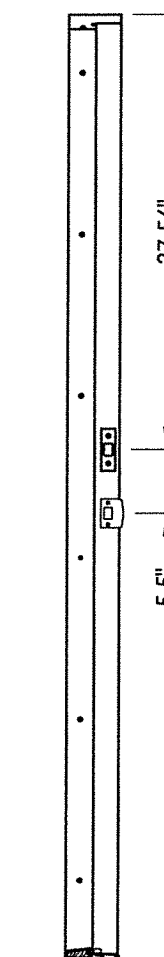
August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOERS		FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS			
REVISIONS		NO.	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
		DATE			
DATE: 09/22/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.2					
SHEET 6 OF 9					

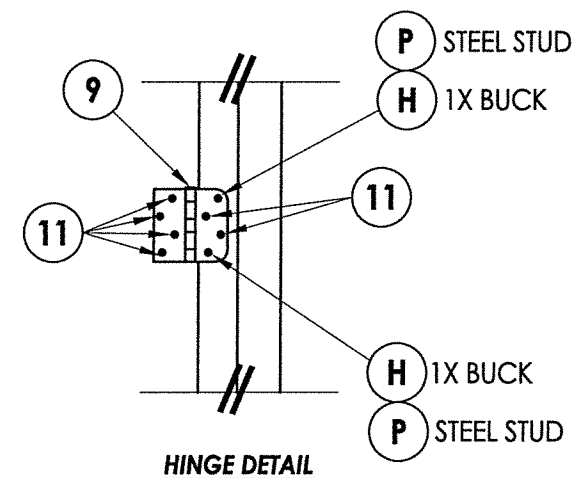
1X BUCK MASONRY
OR
STEEL STUD



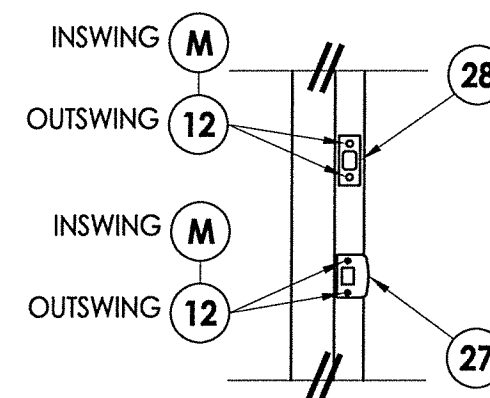
FRAME ANCHORING
Masonry 1X buck Construction
Steel Stud Construction



STRIKE JAMB



HINGE DETAIL



LATCH & DEADBOLT DETAIL

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"
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.


 August 3, 2020
 ents Prepared By: _____
 n F. Schmidt
 No. 43409

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

August 3, 2020

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

[illegible]

DATE: 09/22/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

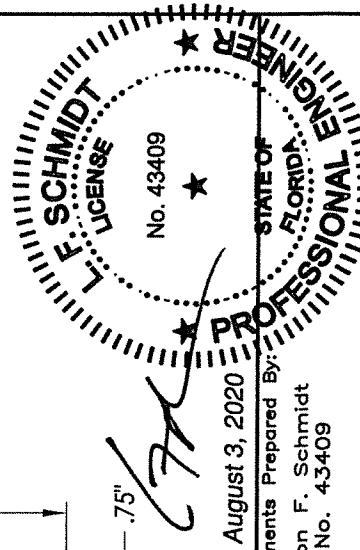
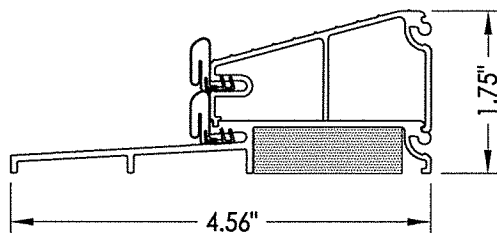
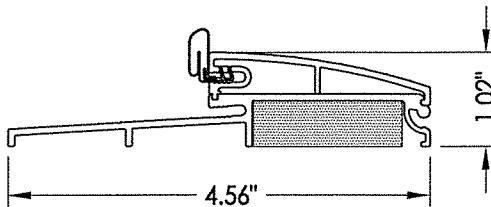
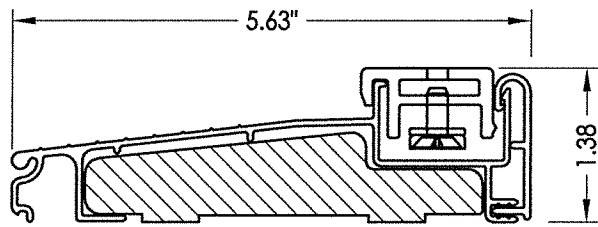
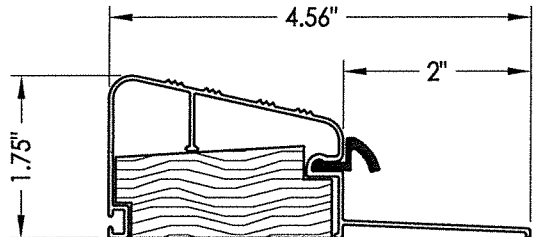
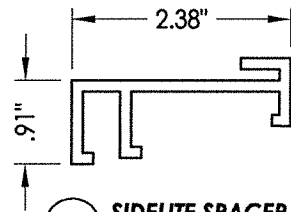
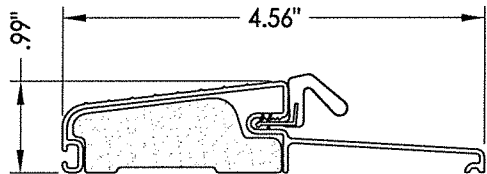
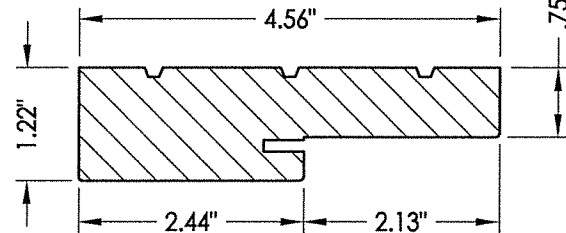
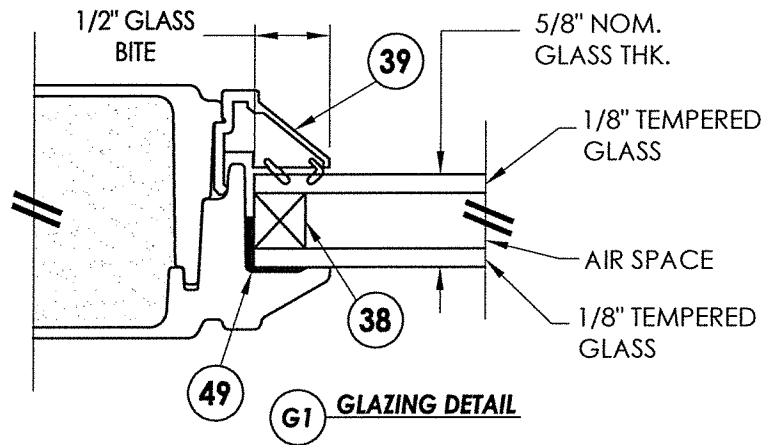
DRAWING NO.:

FL-19007.2

SHEET 8 OF 9

R:\Clients\Doers PERMANENTVA - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL-19007.1-10.dwg, 9.2

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 WEATHERSTRIP 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. 0.075" THICK)	FIBERGLASS
42	TOP RAIL	CELLULAR PVC
43	LATCH & HINGE STILE	CELLULAR PVC
44	LOCK REINFORCEMENT	WOOD
45	BOTTOM RAIL	CELLULAR PVC
46	POLYURETHANE FOAM	POLYURETHANE
47	CONTINUOUS LATCH & HINGE STILE REINFORCEMENT	WOOD
49	GLAZING COMPOUND DOW 995	SILICONE
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-



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FBPE Registry No. 9813

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

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: 09/22/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-19007.2
SHEET 9 OF 9