

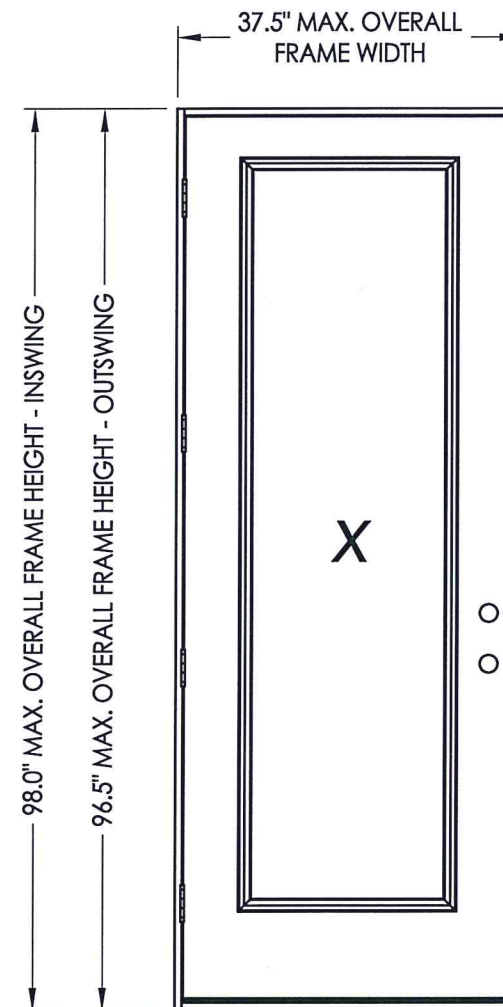


DIAMOND DOOR SERIES FLUSH GLAZED FIBERGLASS DOOR INSWING / OUTSWING "NON-IMPACT"

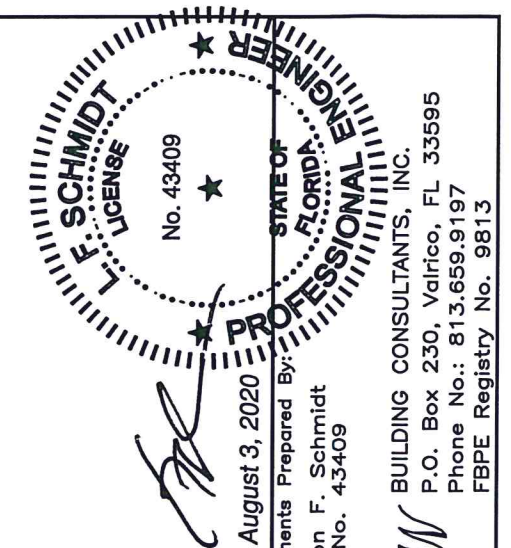
GENERAL NOTES

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 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	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



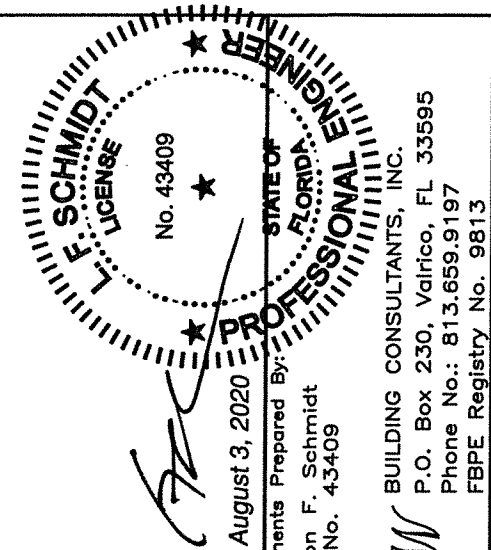
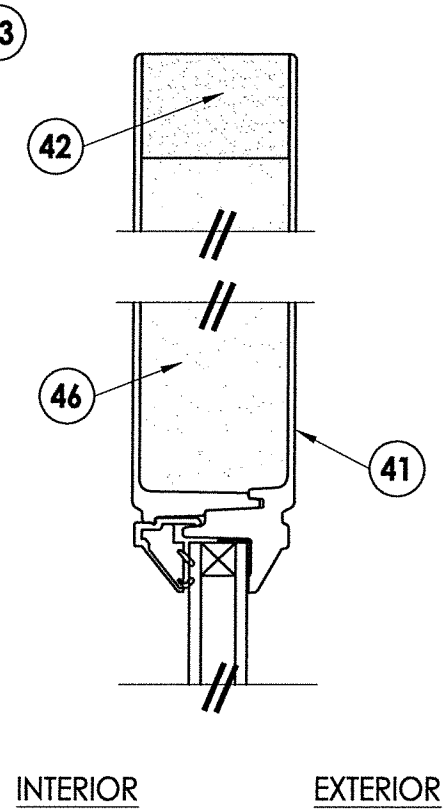
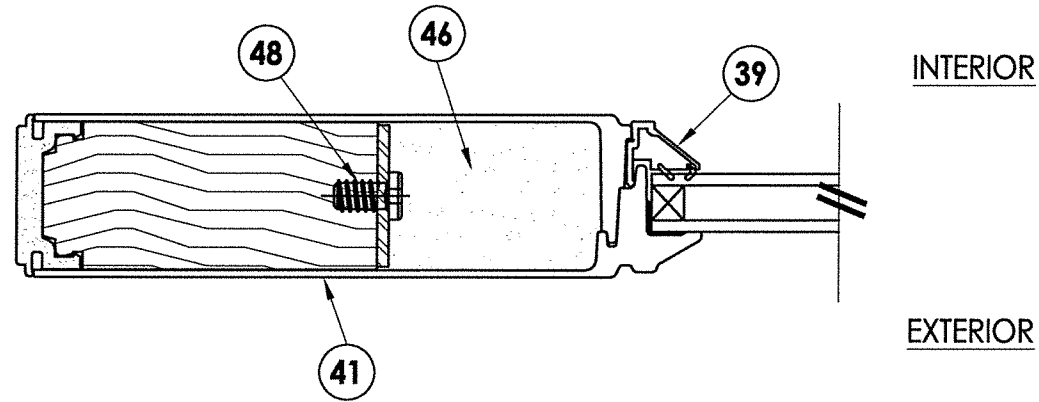
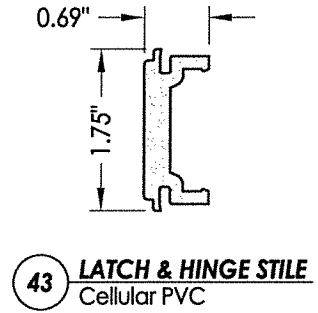
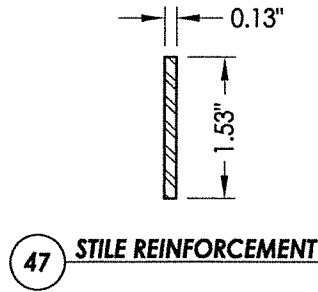
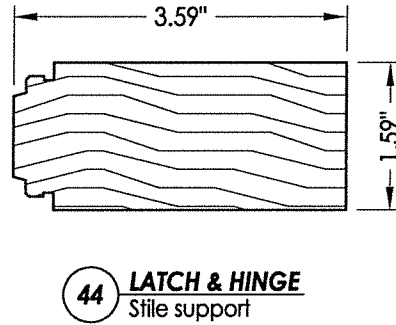
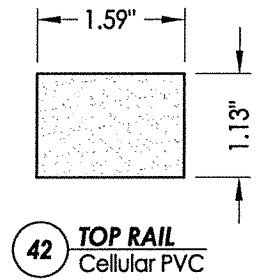
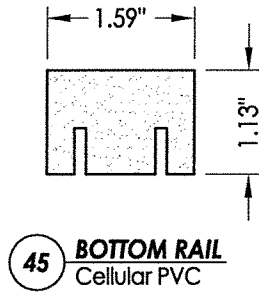
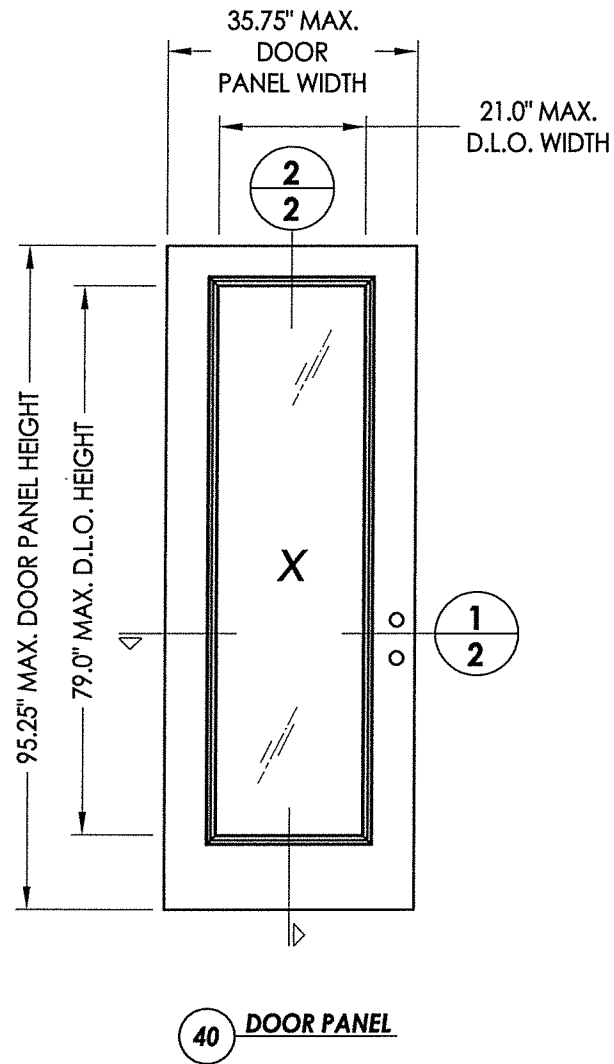
SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
INSWING	37.5" x 98.0"	21.0" x 79.0"	G1	+47.5	-47.5
OUTSWING	37.5" x 96.5"	21.0" x 79.0"		+50.0	-50.0



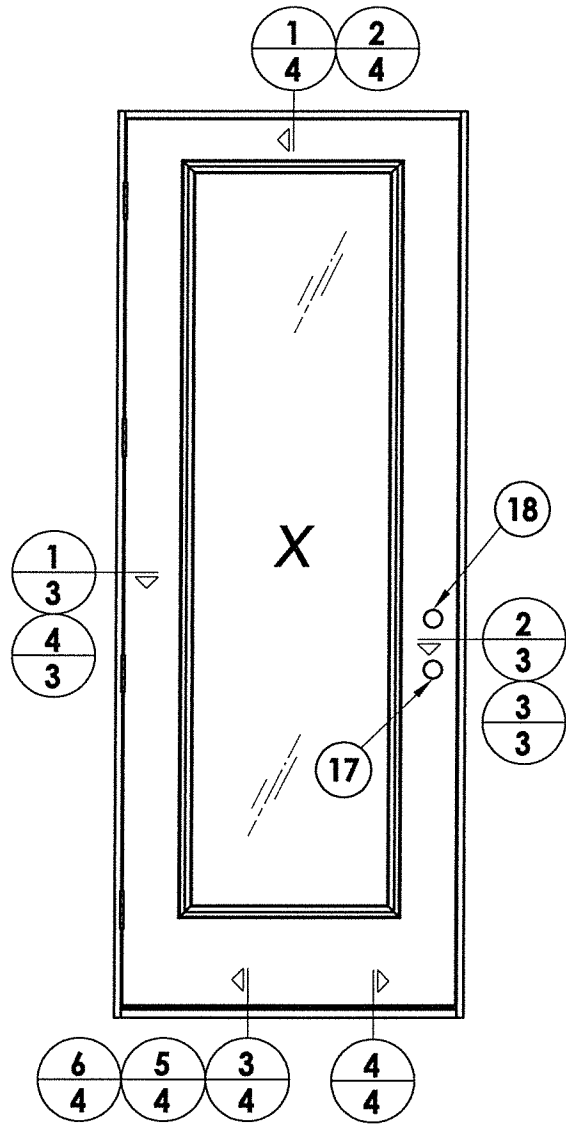
August 3, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
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: 09/22/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.6			
SHEET 1 OF 7			

R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\A - Drawings\FL 19007 (2020)\FL-19007.1-10.dwg, 2.6

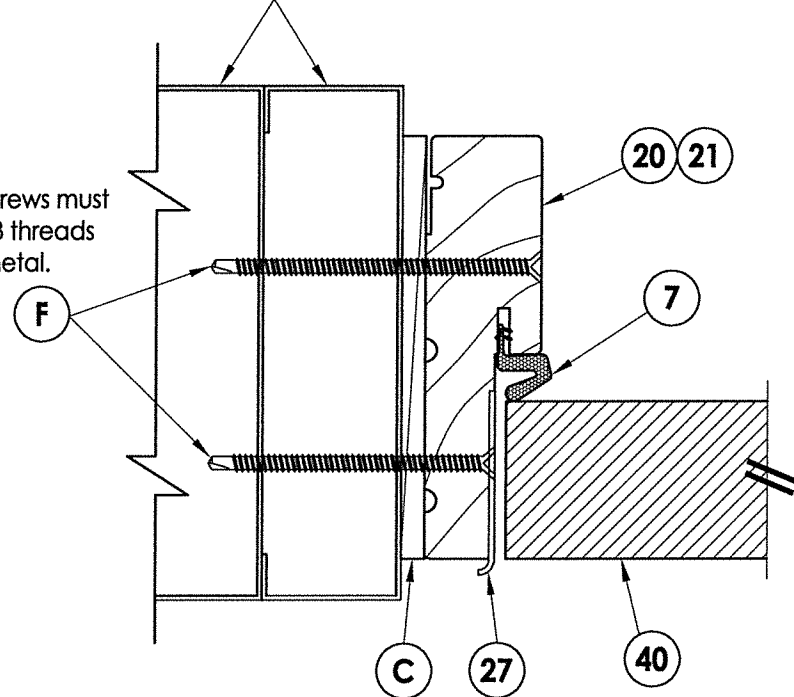


PRODUCT:		DOERS FIBERGLASS DOOR		PART OR ASSEMBLY: DOOR PANEL DETAILS	
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2	5/15/19	ADD STEEL STUD ANCHORING		LFS	
1	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
NO.	DATE			BY	
				REVISIONS	
DATE: 09/22/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.6					
SHEET 2 OF 7					

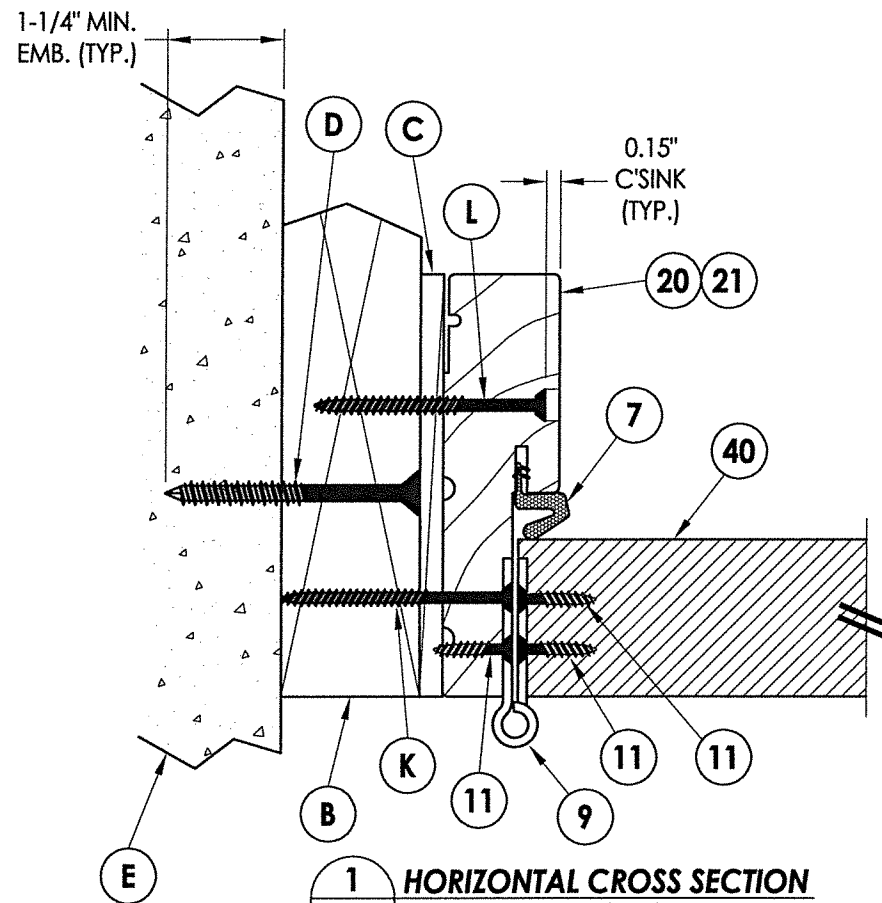


NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through 2 sheets of metal.

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



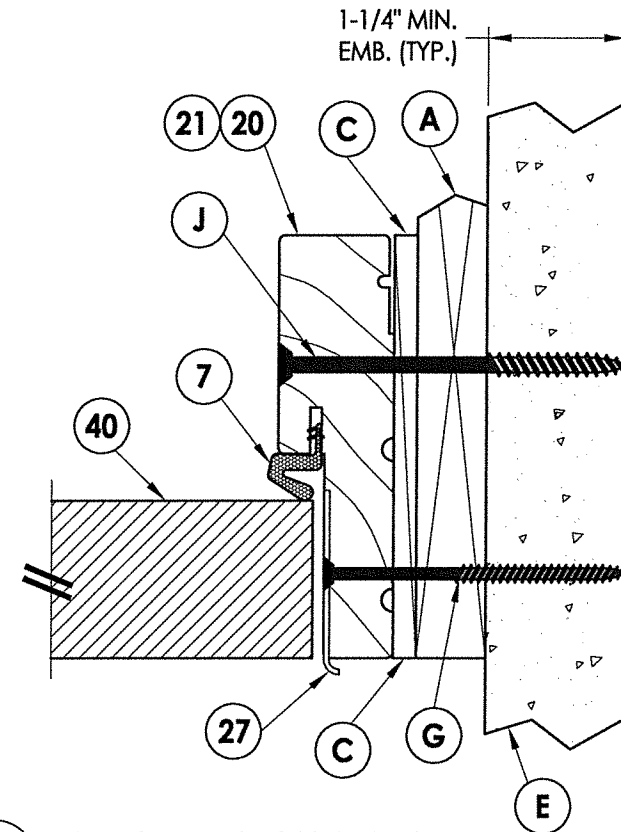
4 HORIZONTAL CROSS SECTION
3 Shown w/ Steel Stud Framing Option



1 HORIZONTAL CROSS SECTION
3 Outswing shown - inswing also approved

INTERIOR

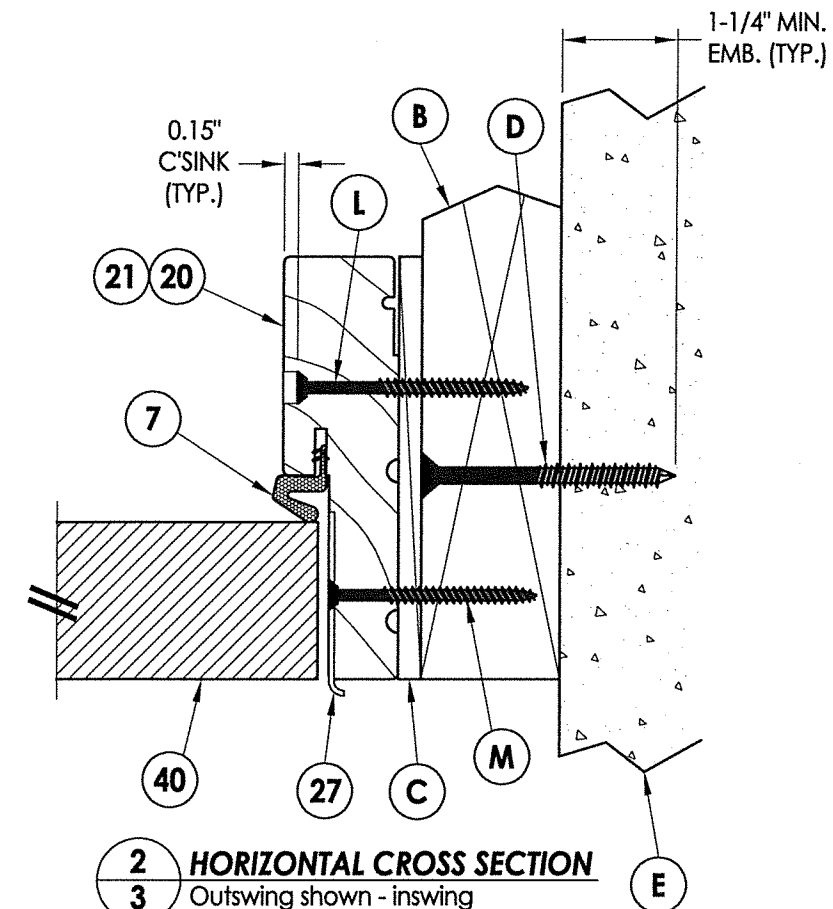
EXTERIOR



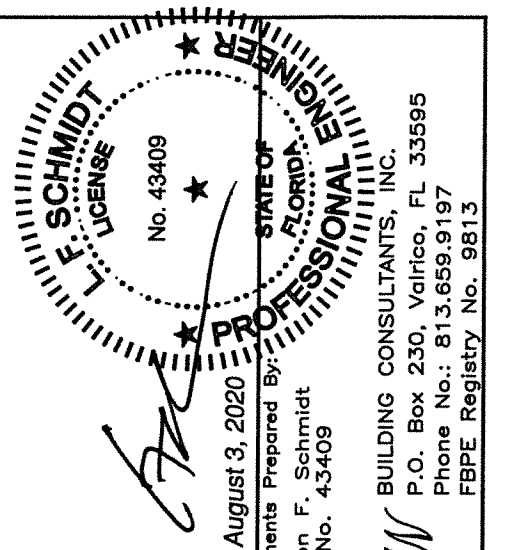
3 HORIZONTAL CROSS SECTION
3 Shown w/1X sub-buck

INTERIOR

EXTERIOR



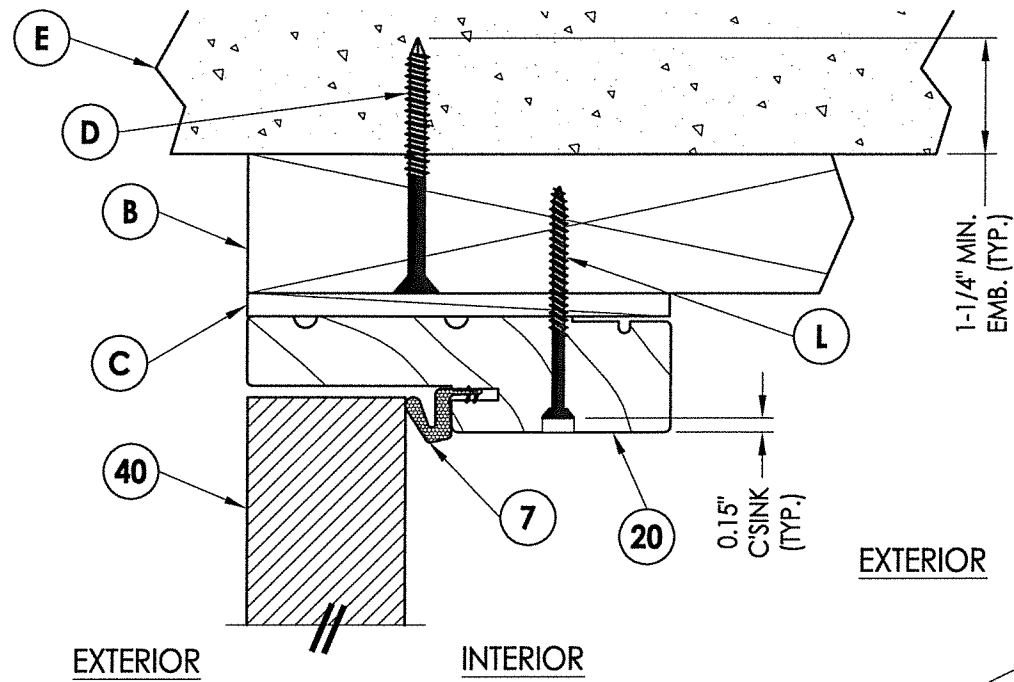
2 HORIZONTAL CROSS SECTION
3 Outswing shown - inswing also approved



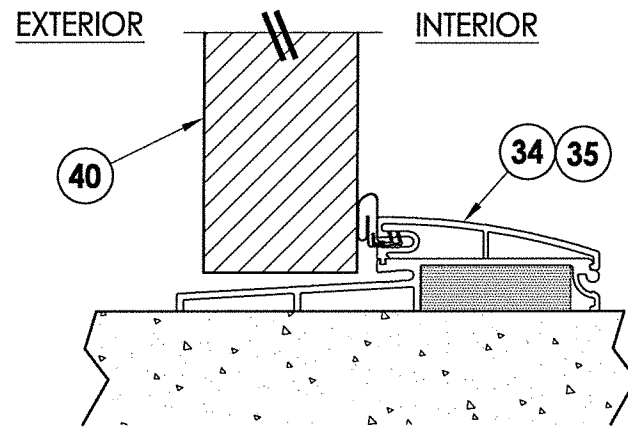
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PRODUCT:		DOERS FIBERGLASS DOOR		PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
		LFS	UPDATE TO 7TH ED. (2020) FBC	LFS	ADD STEEL STUD ANCHORING	JK	BY
		2	5/15/19	1	9/26/17	DATE	
		NO					
REVISIONS							
DATE: 09/22/15							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-19007.6							
SHEET 3 OF 7							

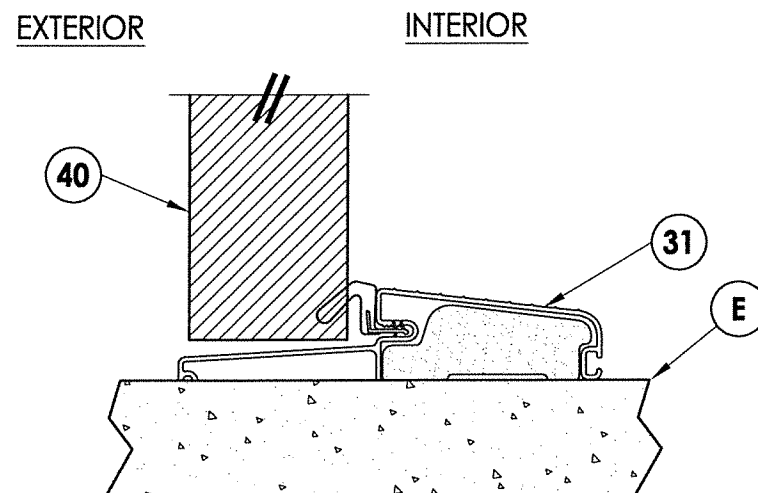
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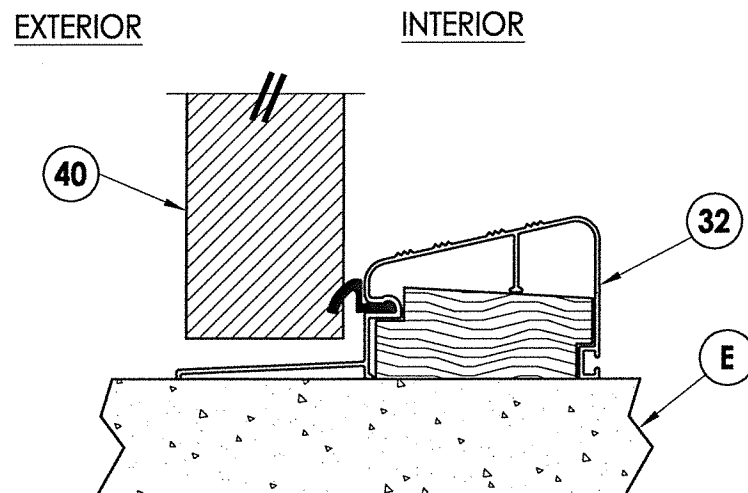
1 VERTICAL CROSS SECTION
4 Outswing shown - inswing also approved



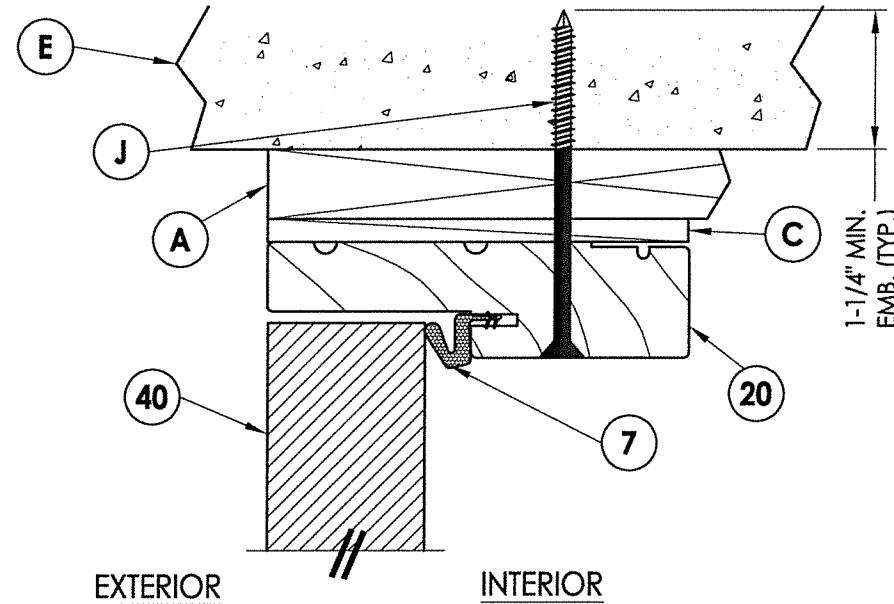
6 VERTICAL CROSS SECTION
4 Outswing configuration



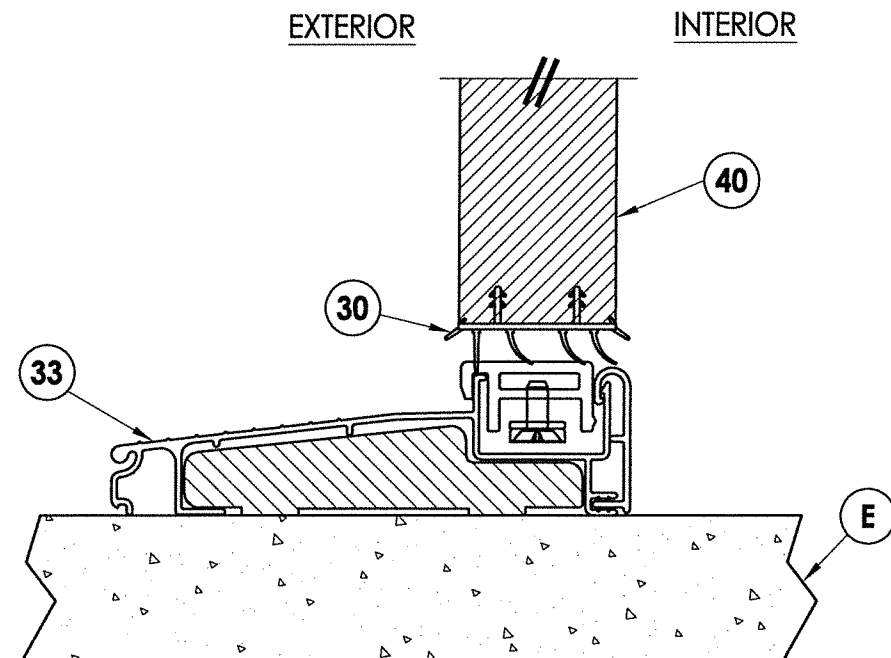
3 VERTICAL CROSS SECTION
4 Outswing configuration



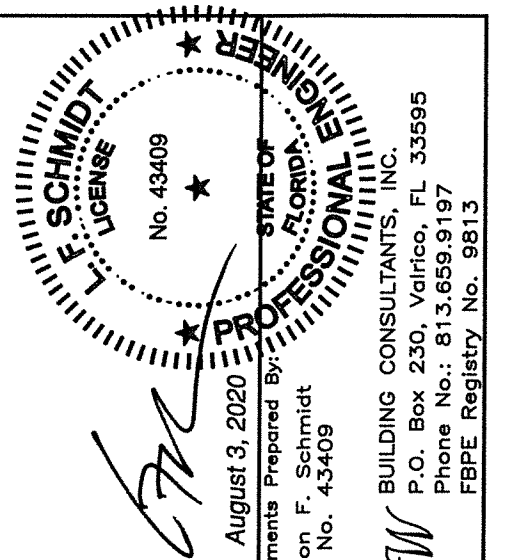
5 VERTICAL CROSS SECTION
4 Outswing configuration
(Where water infiltration requirements are specified)



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

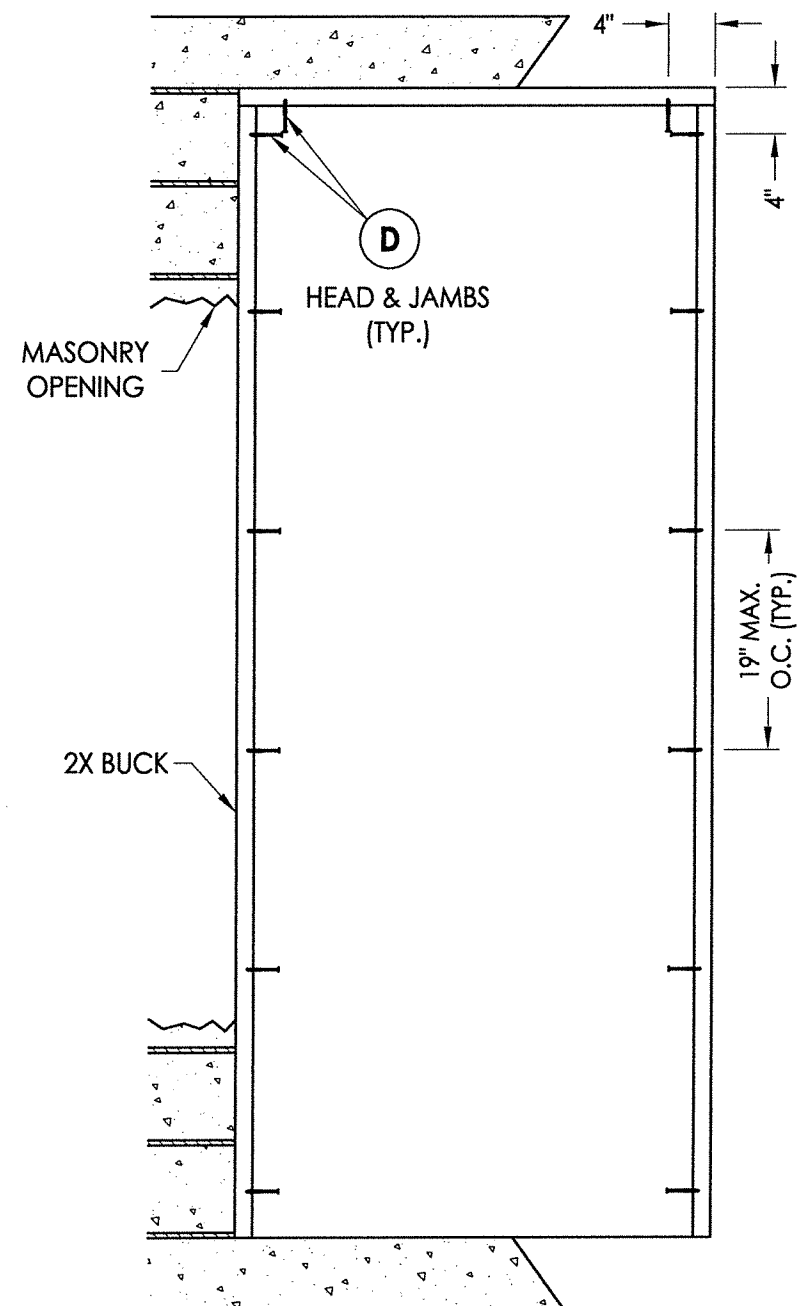


4 VERTICAL CROSS SECTION
4 Inswing configuration

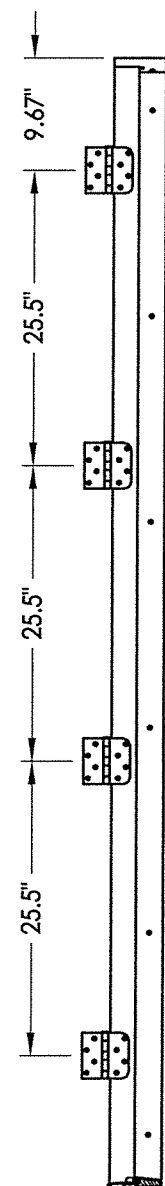


August 3, 2020
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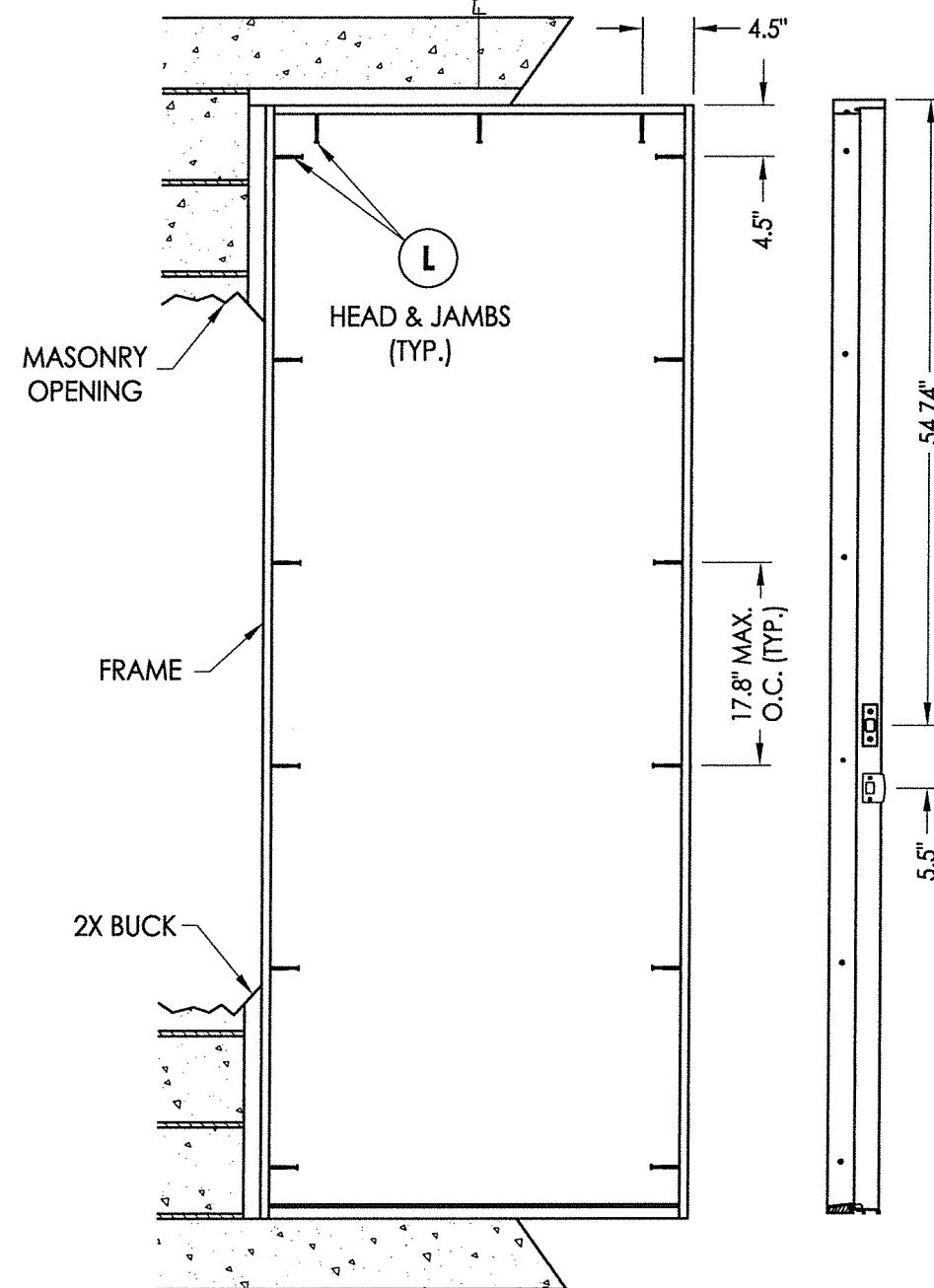
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				LFS	
				JK	
				BY	
				REVISIONS	
3	7/30/20	UPDATE TO 7TH ED. (2020)		FBC	LFS
2	5/15/19	ADD STEEL STUD ANCHORING			LFS
1	9/26/17	UPDATE TO 6TH ED. (2017)		FBC	JK
NO.	DATE				BY
DATE: 09/22/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.6					
SHEET 4 OF 7					



BUCK ANCHORING

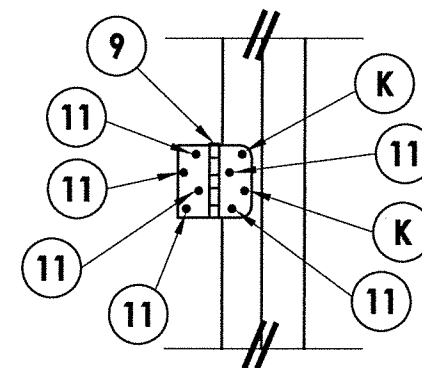


HINGE JAMB

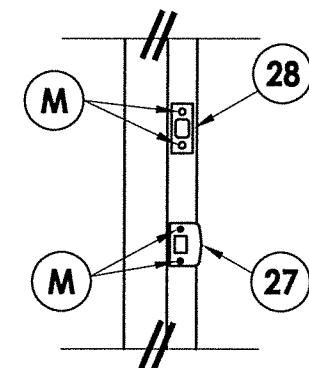


FRAME ANCHORING
Masonry 2X buck construction

STRIKE JAMB



HINGE DETAIL



LATCH & DEADBOLT 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.

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



August 3, 2020

Plans Prepared By: _____

John F. Schmidt
No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

August 3, 2020

Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

R.

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING 2X
BUCK MASONRY CONSTRUCTION

[illegible]

DATE: 09/22/15

SCALE: N.T.S.

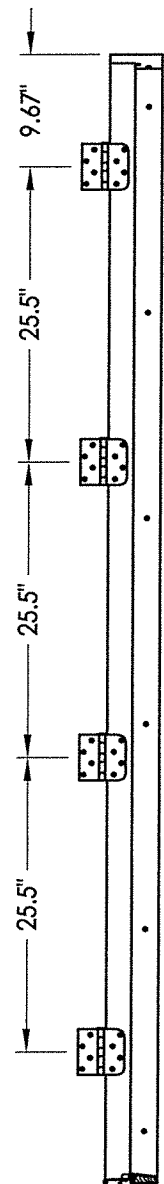
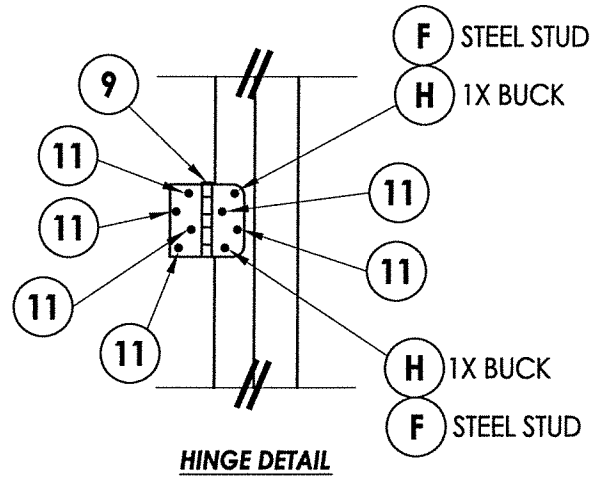
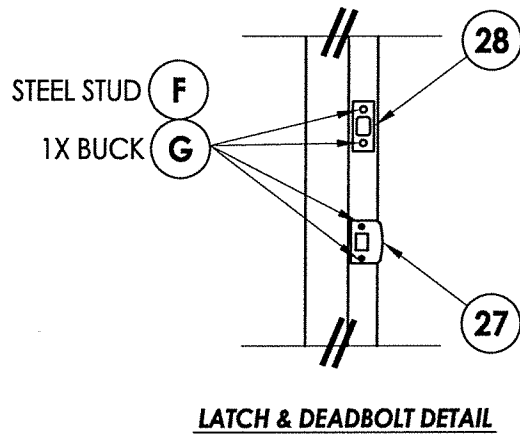
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CHK. BY: LFS

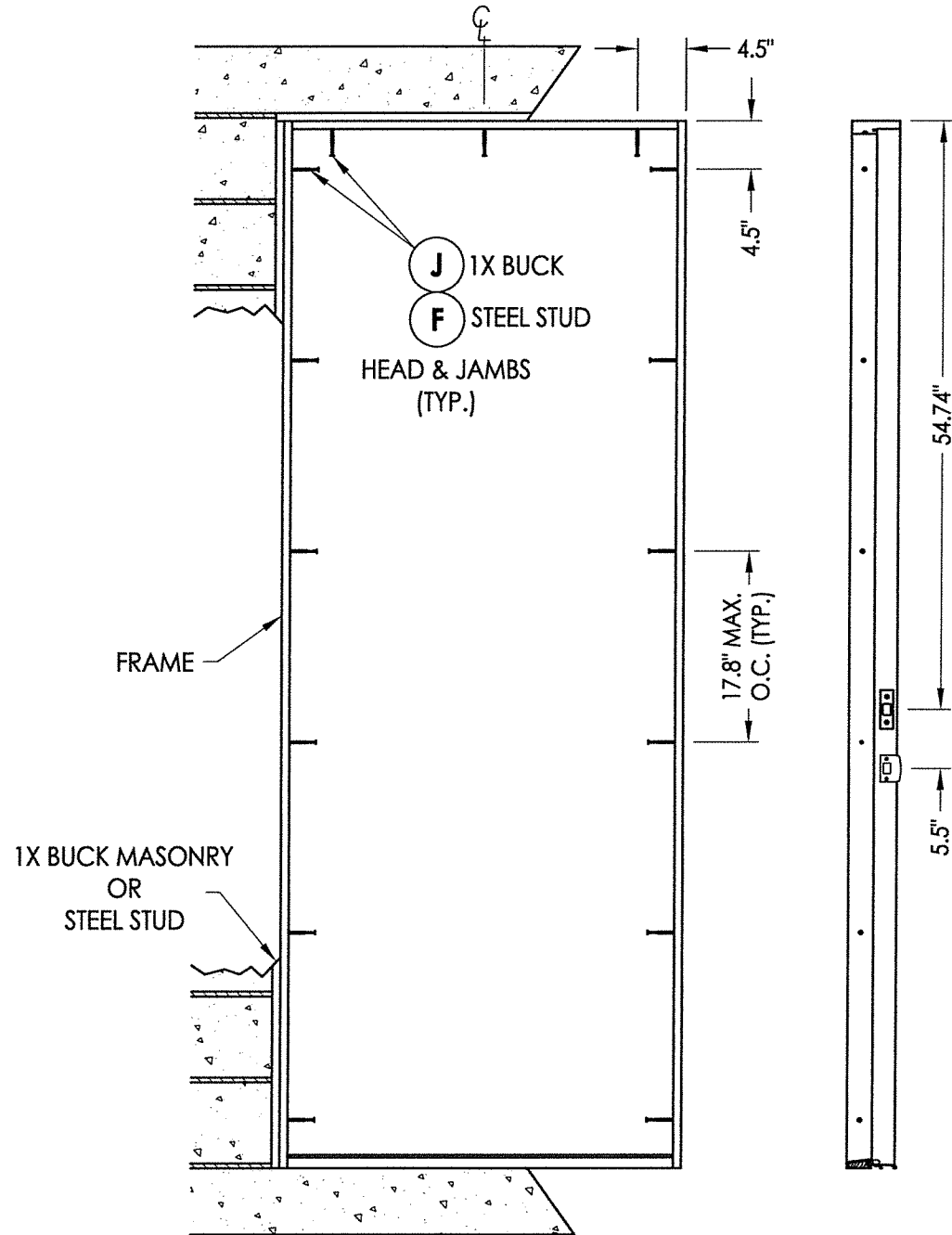
DRAWING NO.:

FL-19007.6

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HINGE JAMB



FRAME ANCHORING
Masonry 1X buck Construction
Steel Stud Construction

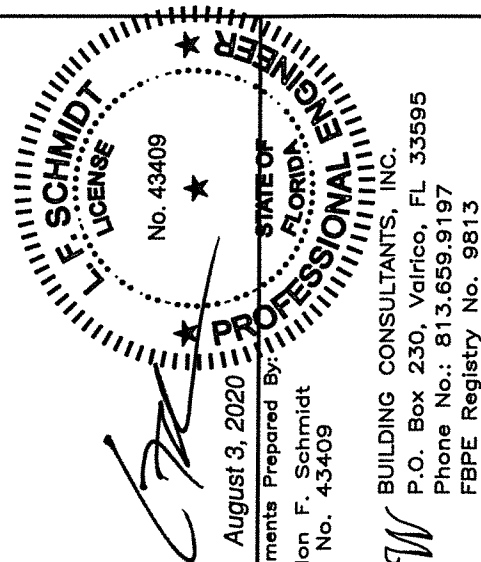
STRIKE JAMB

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

- CONCRETE ANCHOR NOTES:**
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"

- 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.

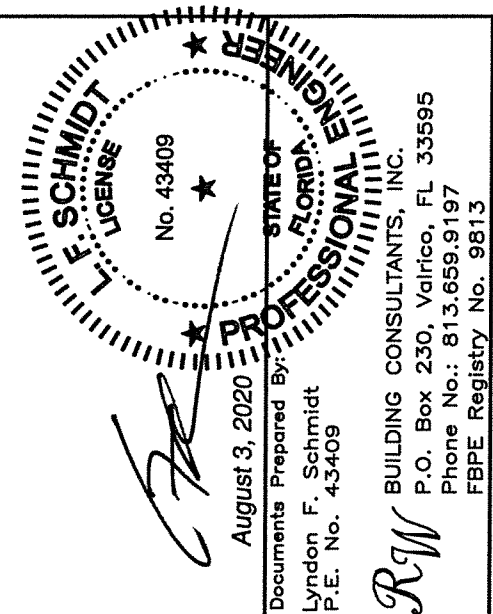
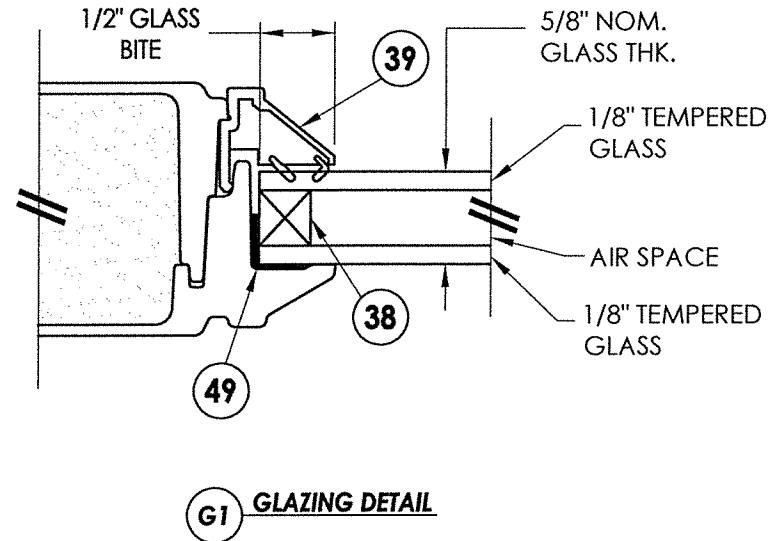
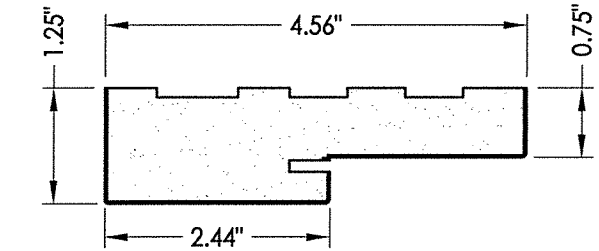
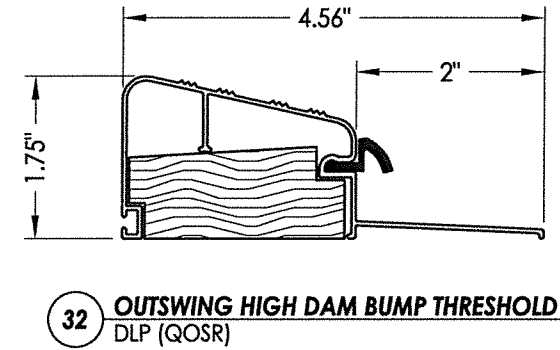
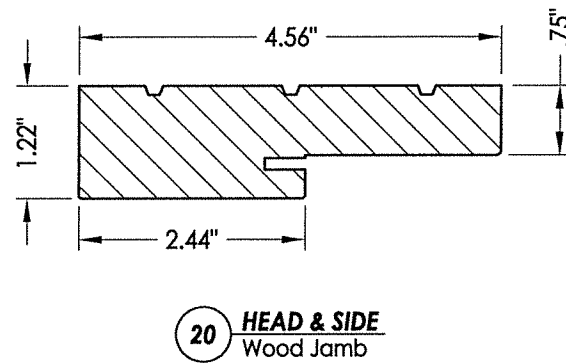
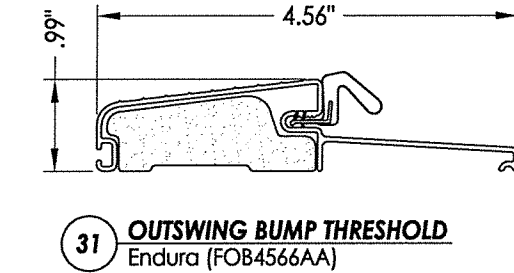
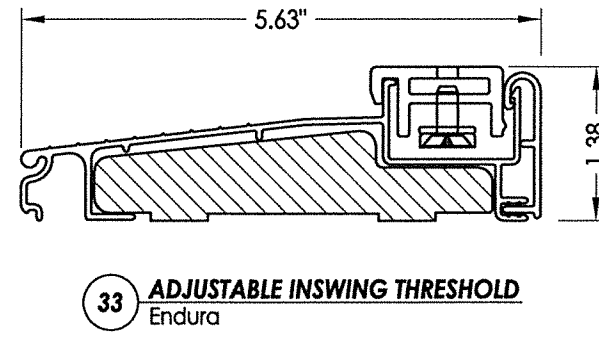
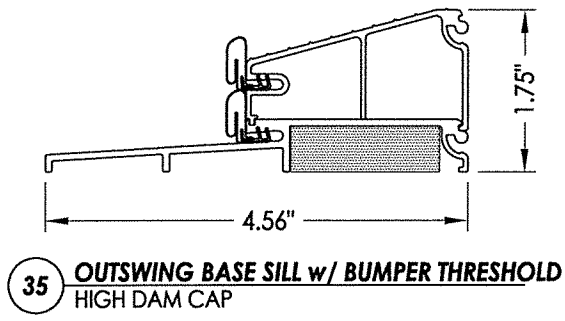
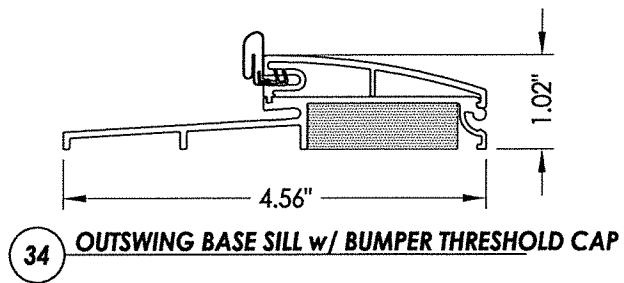


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FBPE Registry No. 9813

PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		FRAME ANCHORING 1X BUCK MASONRY CONSTRUCTION	
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			
DATE: 09/22/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.6			
SHEET 6 OF 7			

R:\Clients\Doors PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.1-10.dwg, 7.6

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 WEATHERSTRIP 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	POLYFIBER 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 REINFORCEMENT	STEEL
48	REINFORCEMENT RETAINING SCREW	NYLON
49	GLAZING COMPOUND DOW 995	SILICONE



PRODUCT:		DOORS		FIBERGLASS DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS, GLAZING		DETAIL & COMPONENTS	
NO.	DATE	REVISIONS	BY	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		
DATE: 09/22/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-19007.6					
SHEET 7 OF 7					