



DIAMOND DOOR SERIES

FLUSH GLAZED FIBERGLASS DOOR

INSWING / OUTSWING

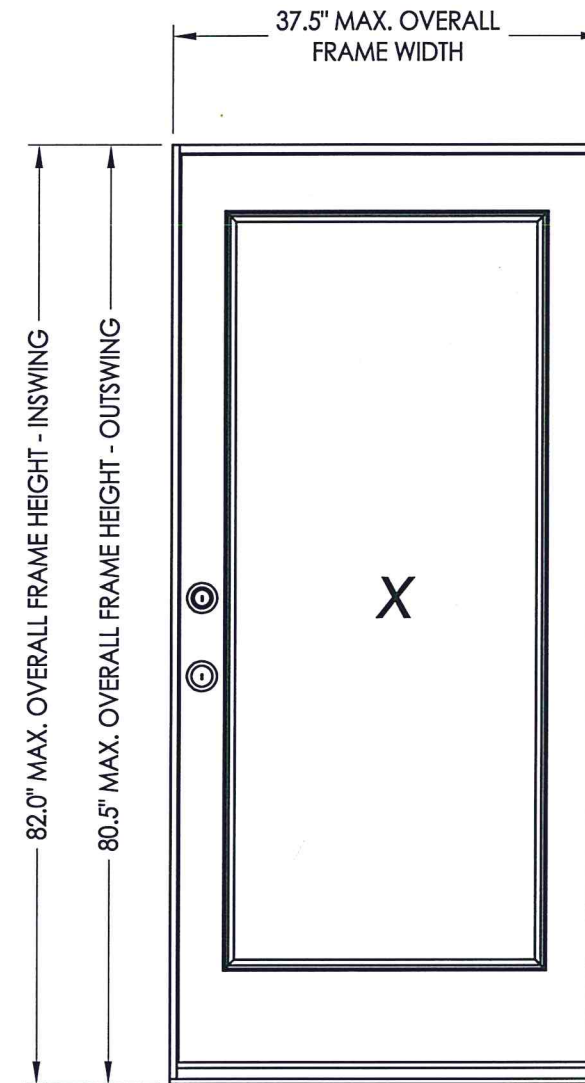
"NON-IMPACT"

GENERAL NOTES

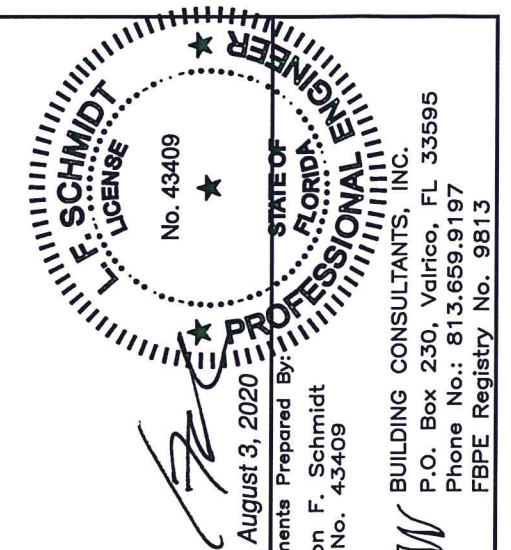
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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.

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SHEET #	DESCRIPTION
1	Typical elevation, design pressures, & general notes
2	Door panel details
3	Horizontal cross sections
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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 82.0"	26.25" x 65.93"	G1	+50.0	-50.0
OUTSWING	37.5" x 80.5"	26.25" x 65.93"		+50.0	-50.0



PRODUCT: DOERS FIBERGLASS DOOR

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

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

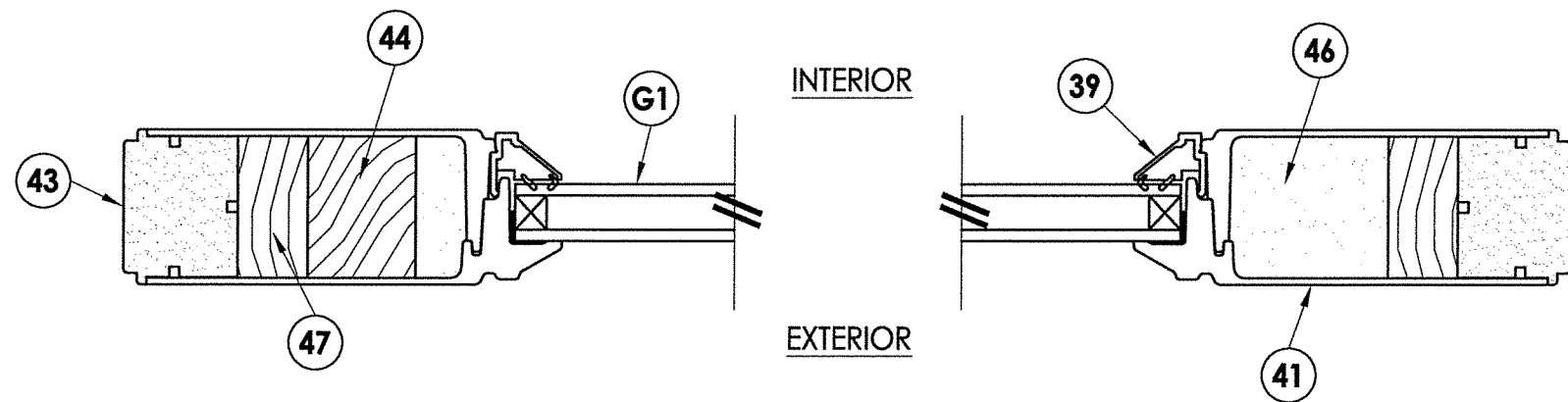
SCALE: N.T.S.

DWG. BY: JK

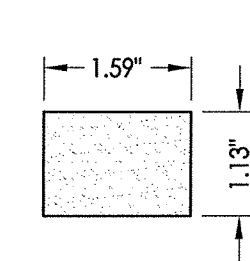
CHK. BY: LFS

DRAWING NO.: FL-19007.1

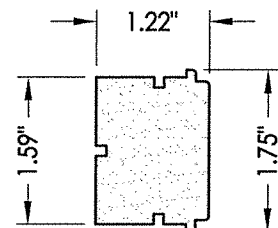
SHEET 1 OF 7



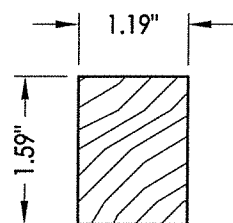
1 HORIZONTAL CROSS SECTION



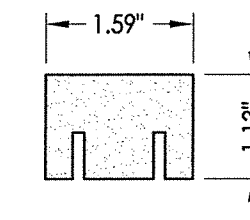
42 **TOP RAIL**
Cellular PVC



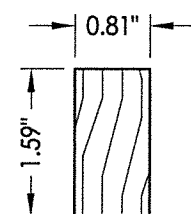
43 LATCH & HINGE STILE
Cellular PVC



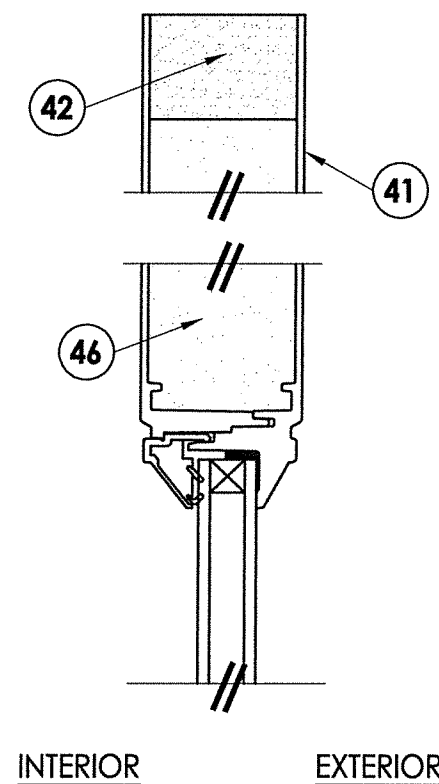
44 LOCK REINFORCEMENT



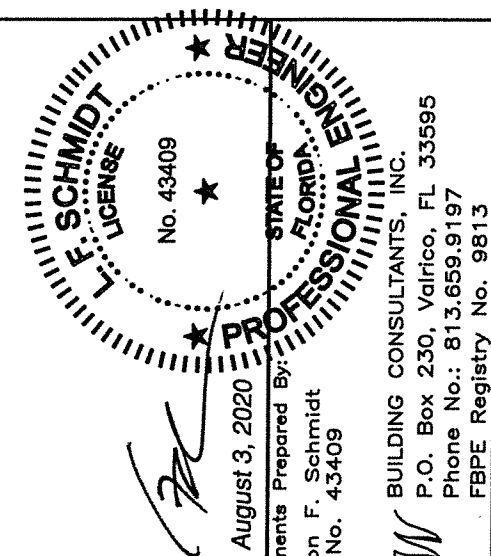
45 **BOTTOM RAIL**
Cellular PVC



47 LATCH & HINGE STILE
LVL wood reinforcement



2 VERTICAL CROSS SECTION

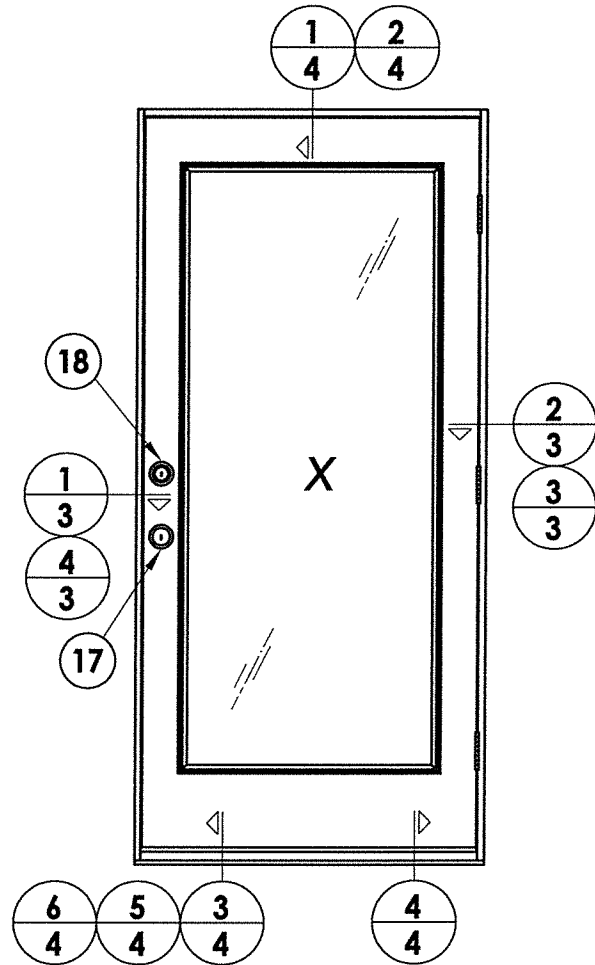


Documents Prepared By:
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P.E. No. 43409



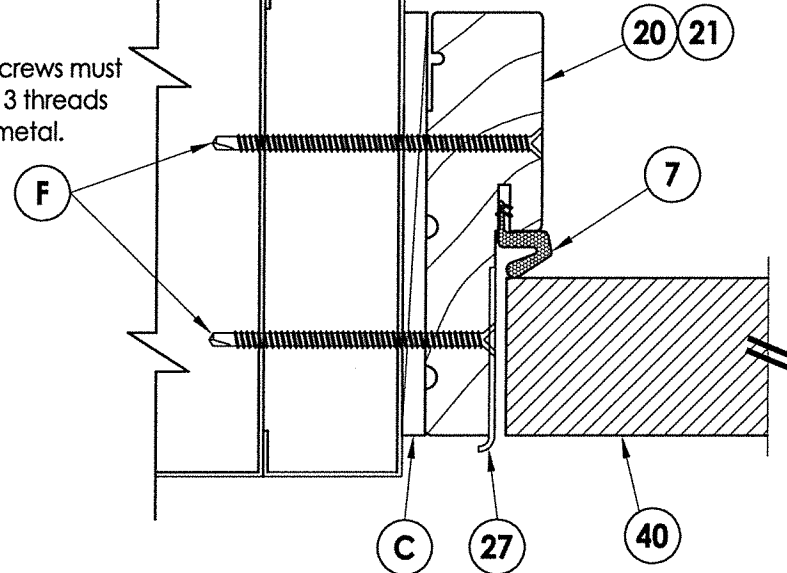
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 09/22/15		PRODUCT: DOERS FIBERGLASS DOOR	
SCALE: N.T.S.		PART OR ASSEMBLY: DOOR PANEL DETAILS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.1			
SHEET 2 OF 7			

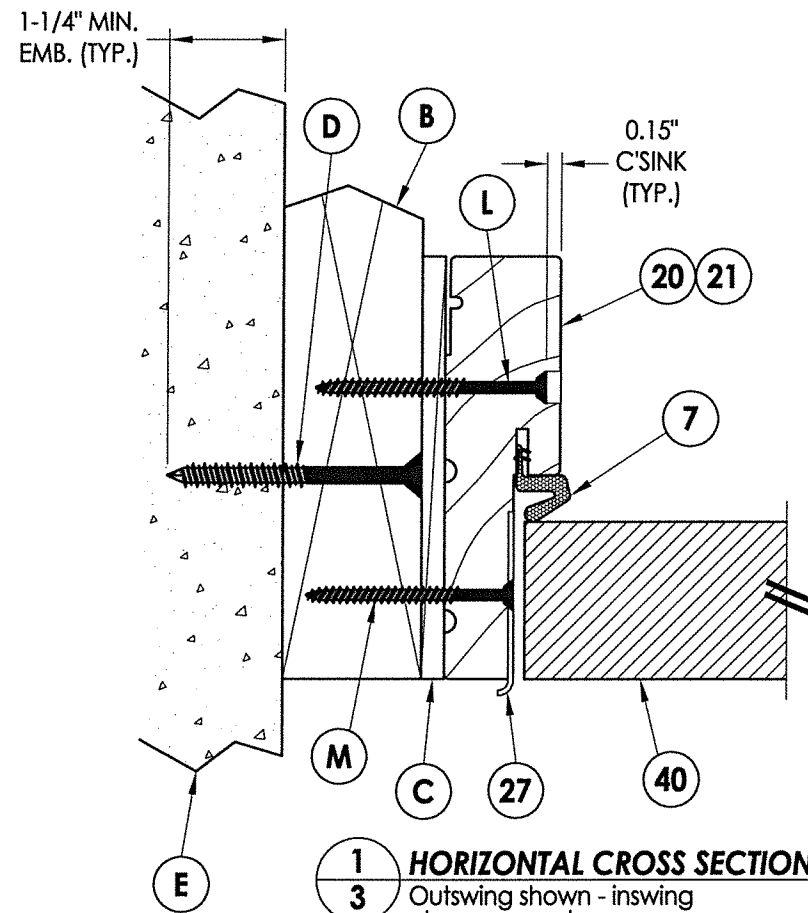


NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through 2 sheets of metal.

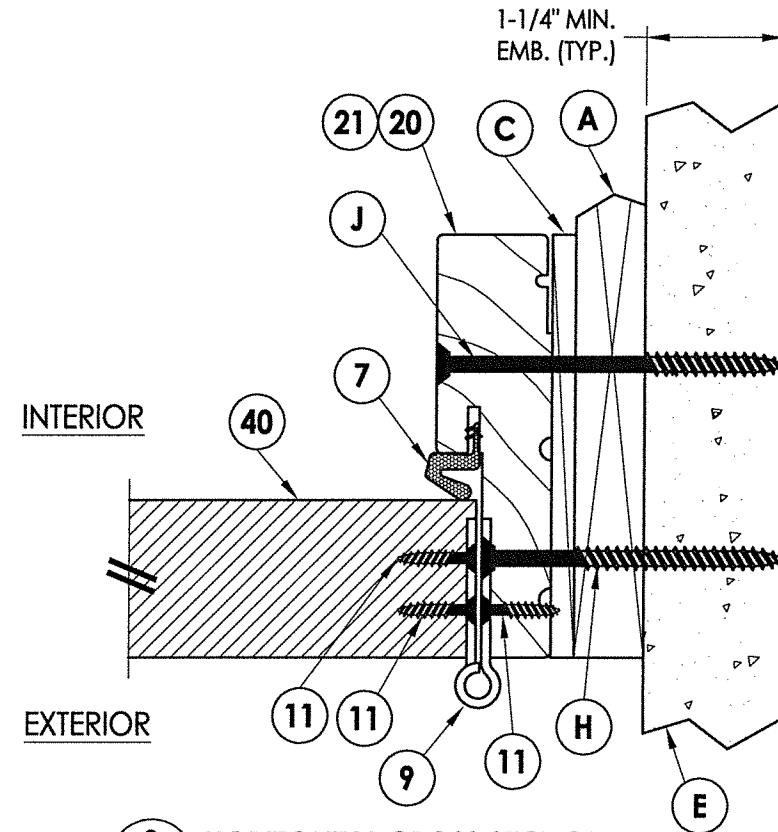
METAL STUDS BY OTHERS
(SSMA STUD 550S162-43, Fy = 33 ksi, Fu = 45 ksi, MIN.)



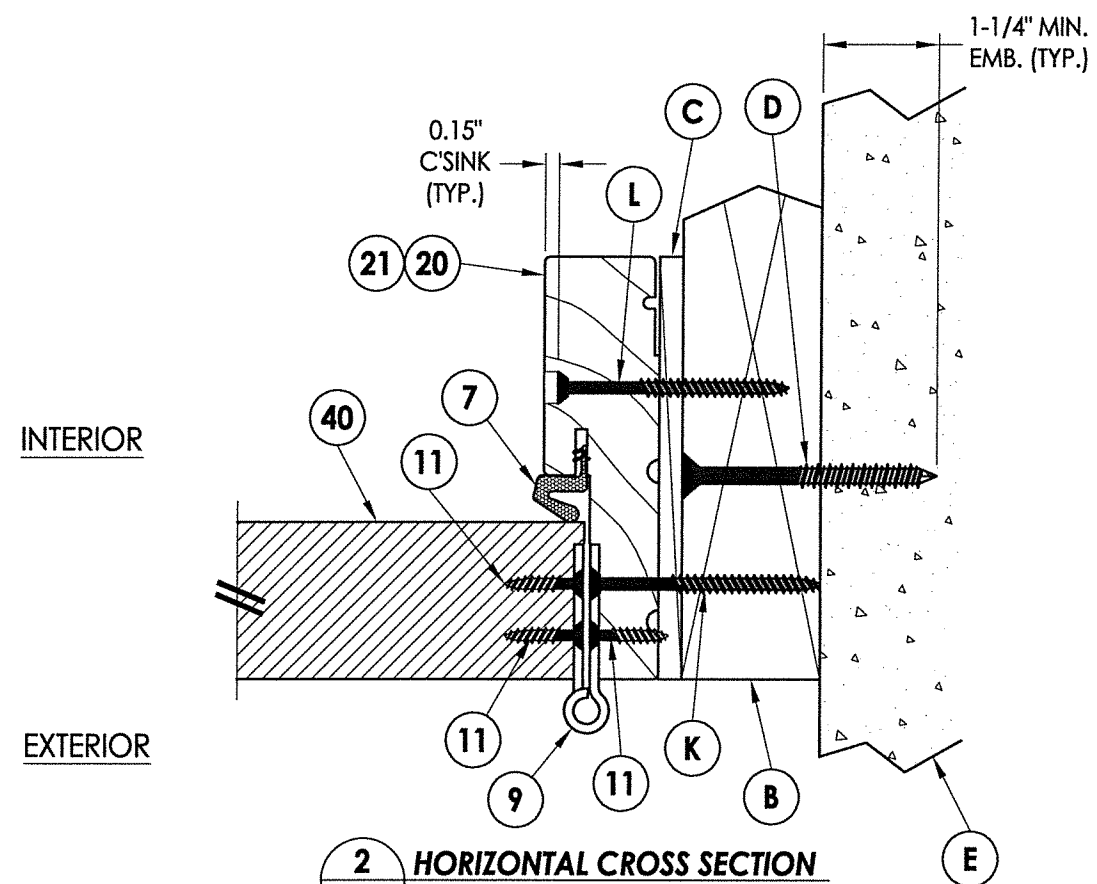
4 HORIZONTAL CROSS SECTION
3 Shown w/ Steel Stud Framing Option



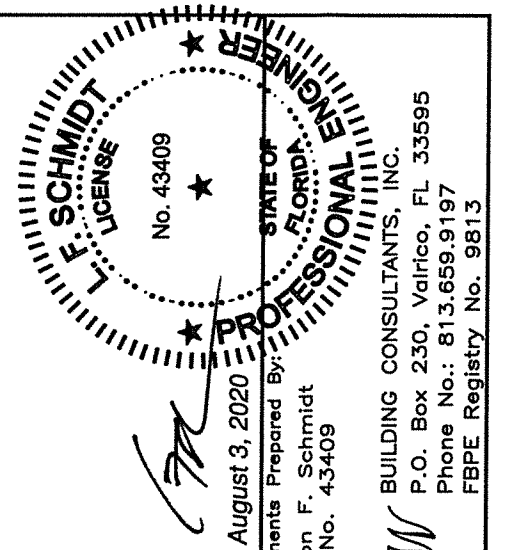
1 HORIZONTAL CROSS SECTION
3 Outswing shown - inswing also approved



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



2 HORIZONTAL CROSS SECTION
3 Outswing shown - inswing also approved



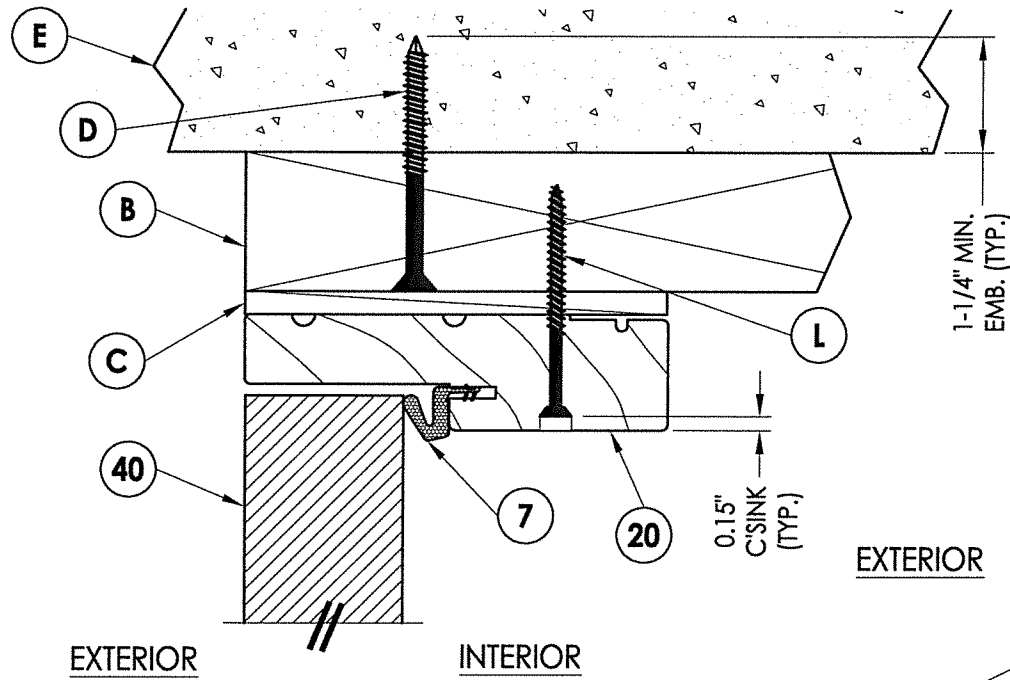
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PRODUCT:	DOERS FIBERGLASS DOOR
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

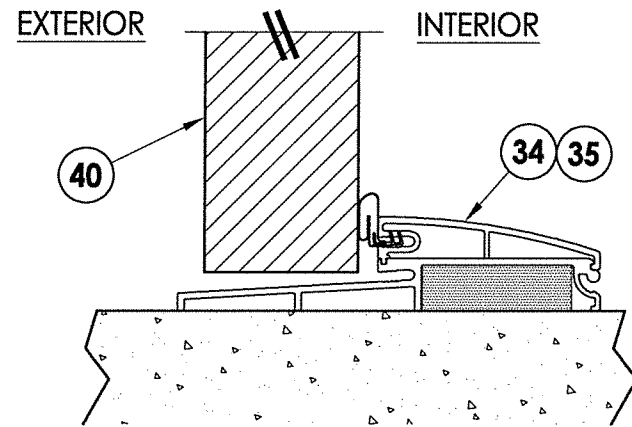
NO.	DATE	BY
3	7/30/20	LFS
2	5/15/19	LFS
1	9/26/17	JK

DATE:	09/22/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-19007.1
SHEET	3 OF 7

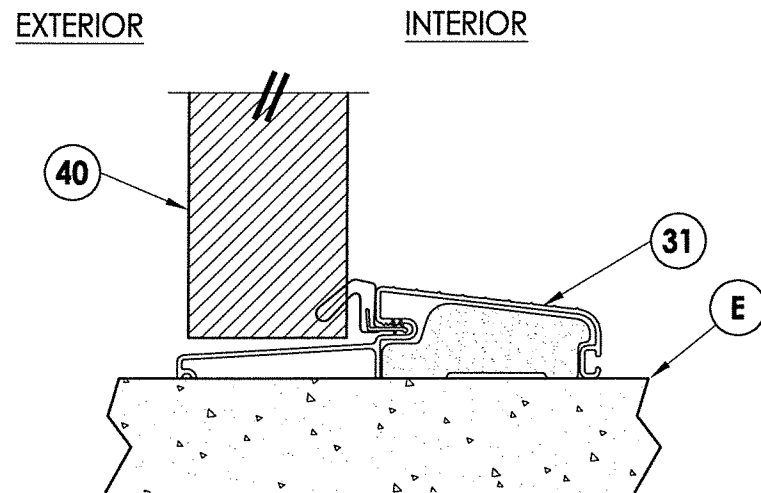
R:\Clients\Doers PERMANENT\A - Florida Product Approvals\FL-19007 Doors - Glazed\C - Drawings\FL 19007 (2020)\FL-19007.1-10.dwg, 4.1



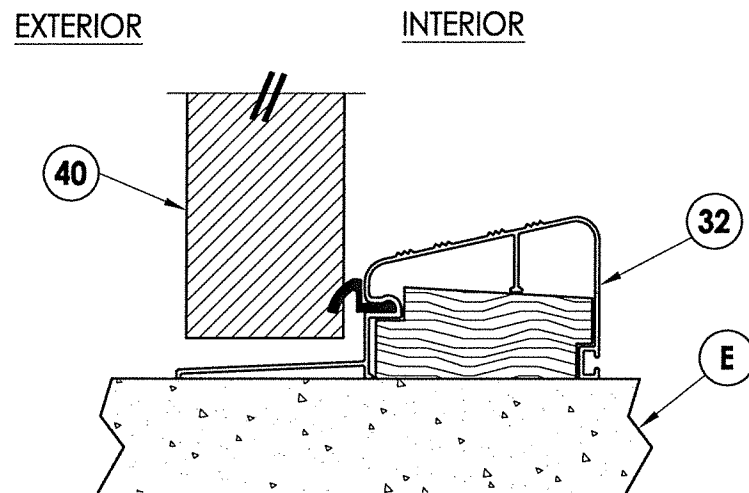
1
4 **VERTICAL CROSS SECTION**
Outswing shown - inswing
also approved



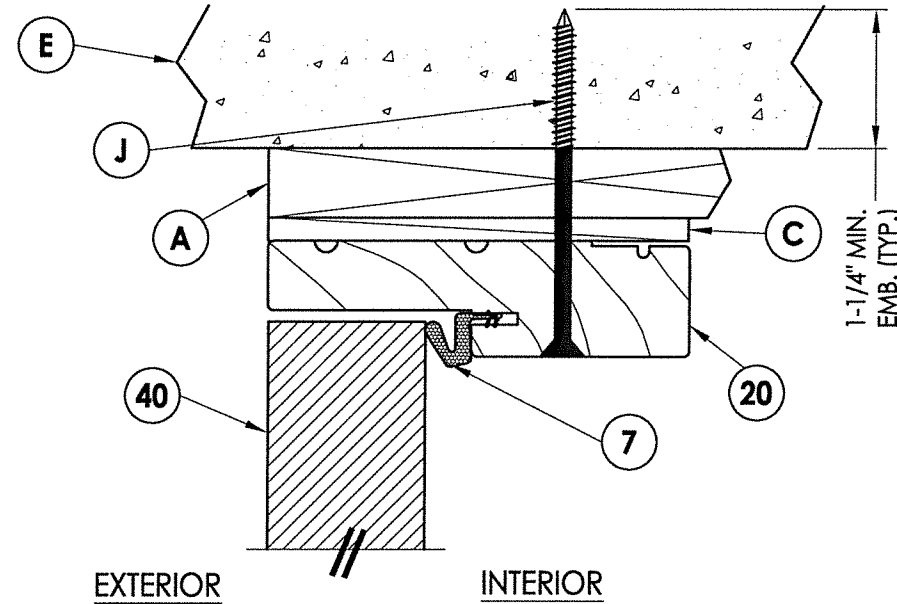
6
4 **VERTICAL CROSS SECTION**
Outswing configuration



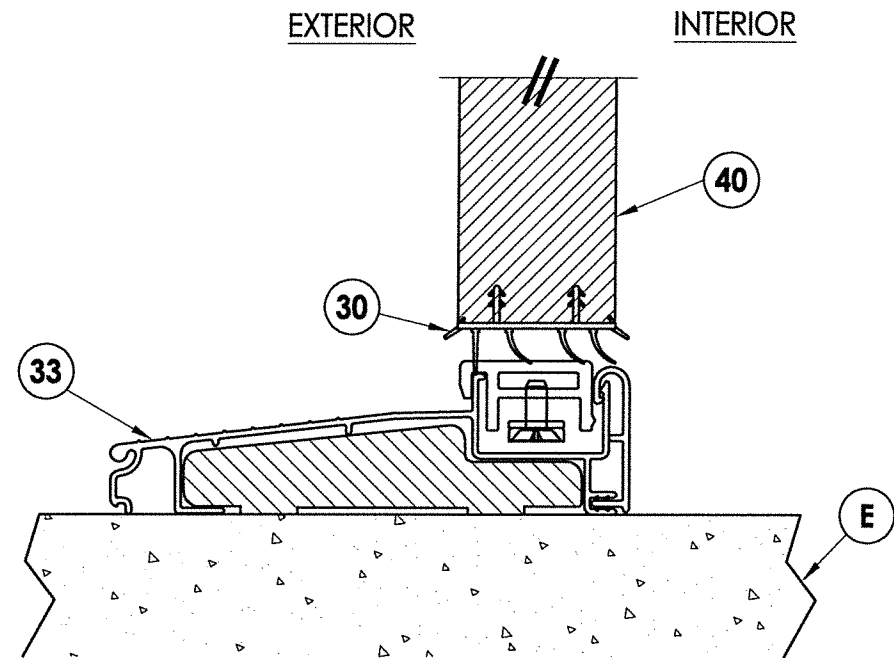
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4 **VERTICAL CROSS SECTION**
Outswing configuration



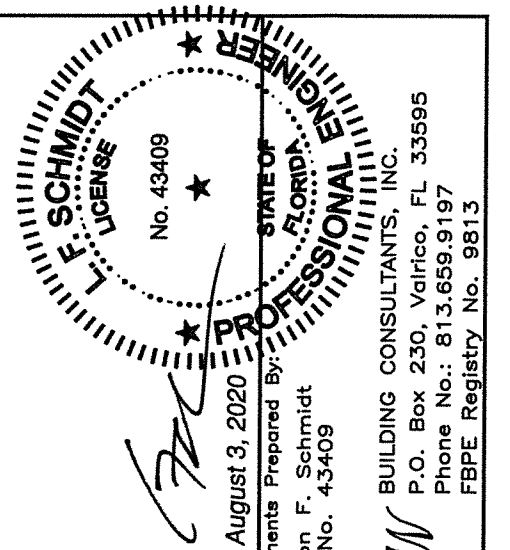
5
4 **VERTICAL CROSS SECTION**
Outswing configuration
(Where water infiltration requirements are specified)



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

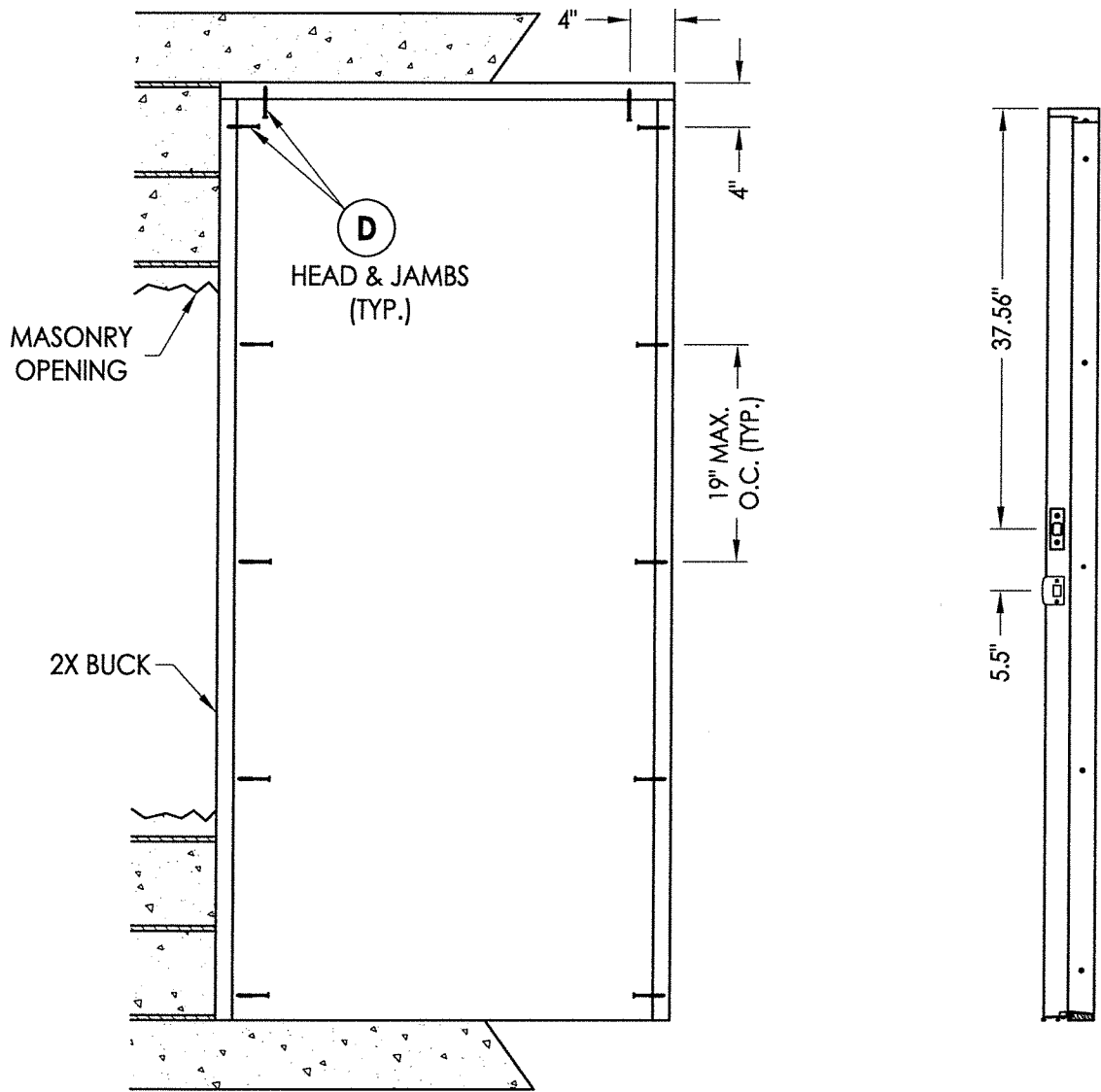


4
4 **VERTICAL CROSS SECTION**
Inswing configuration

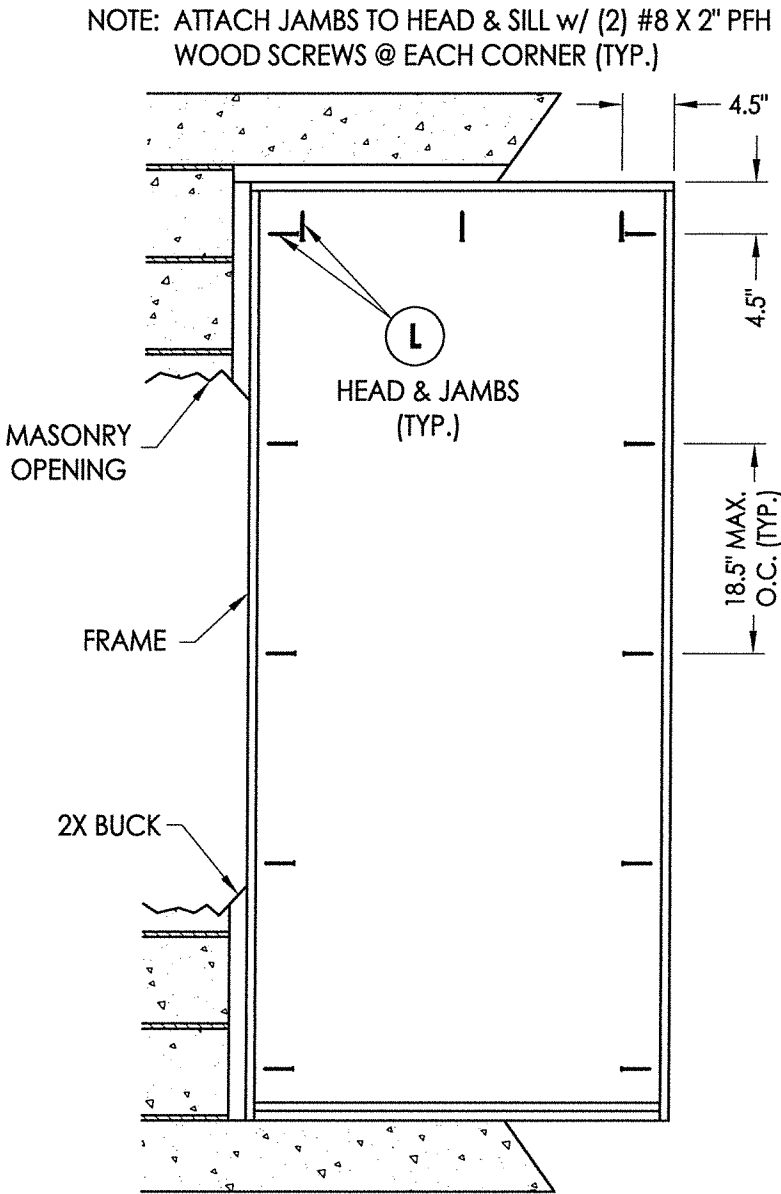


August 3, 2020
Documents Prepared By:
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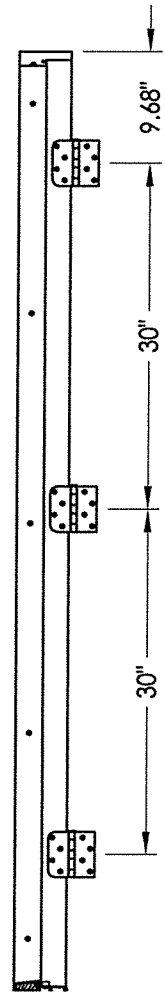
PRODUCT:		DOERS FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
		LFS	BY
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC	
2	5/15/19	ADD STEEL STUD ANCHORING	
1	9/26/17	UPDATE TO 6TH ED. (2017) FBC	
NO.	DATE		
REVISIONS			
DATE: 09/22/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19007.1			
SHEET 4 OF 7			



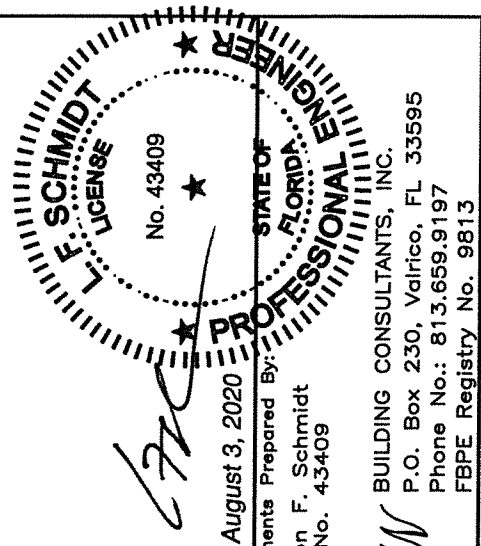
BUCK ANCHORING



FRAME ANCHORING
Masonry 2X buck construction



HINGE JAMB

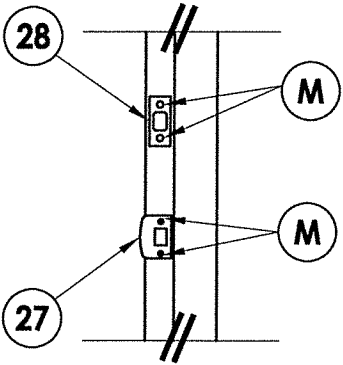


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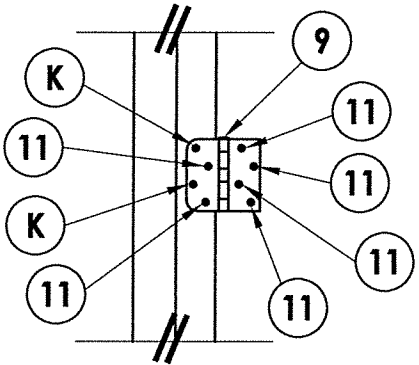
- CONCRETE ANCHOR NOTES:**
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
 - Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required 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"
ELCO ULTRA CON®	1/4"	1-1/4"	1"	4"

- 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.

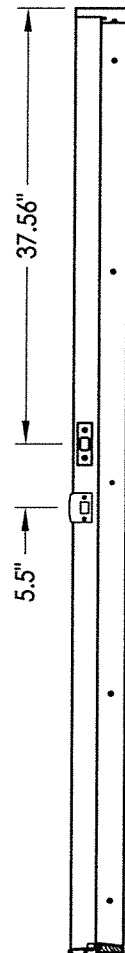


LATCH & DEADBOLT DETAIL



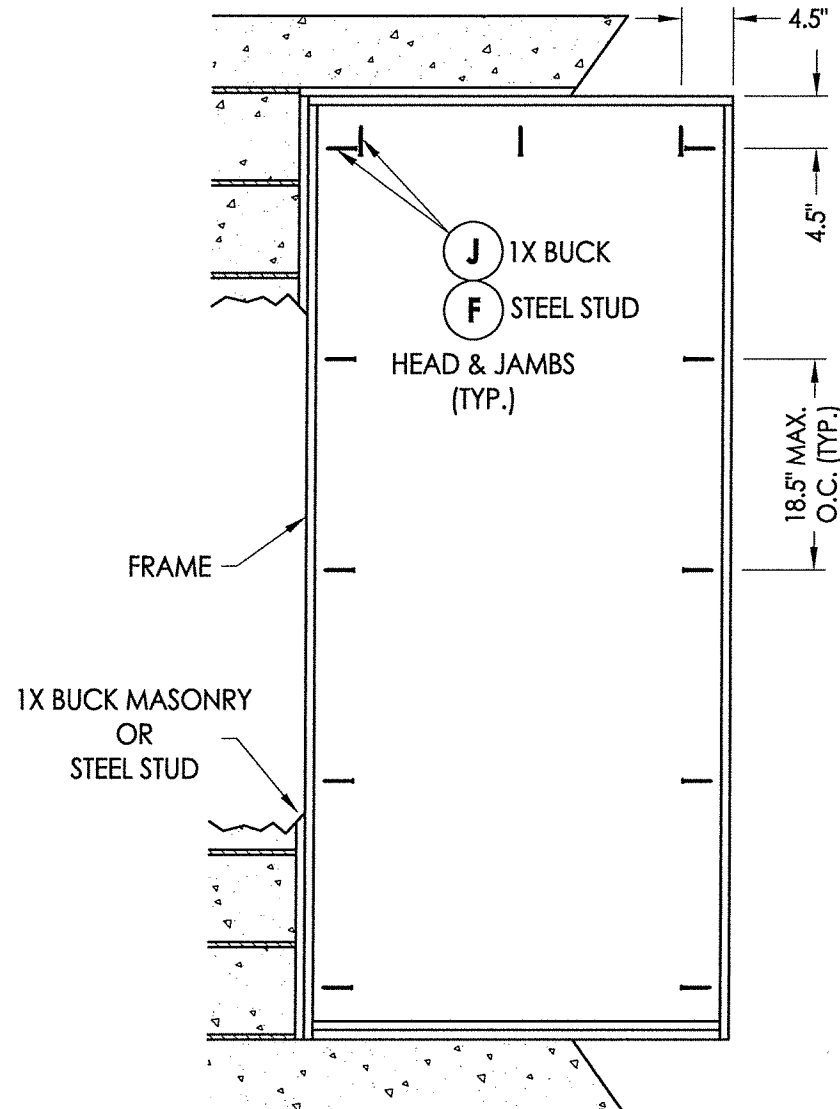
HINGE DETAIL

DATE: 09/22/15								PRODUCT:		DOERS FIBERGLASS DOOR	
SCALE: N.T.S.											
DWG. BY: JK											
CHK. BY: LFS											
DRAWING NO.: FL-19007.1											
SHEET 5 OF 7											

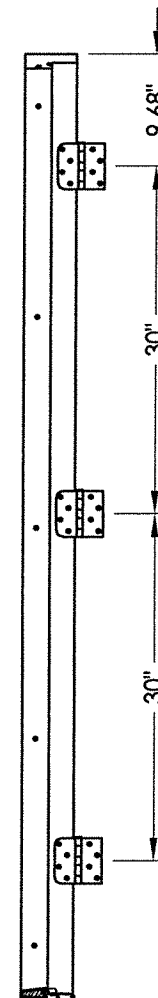


STRIKE JAMB

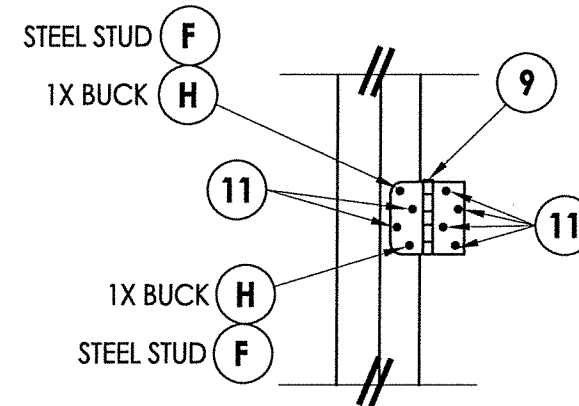
NOTE: ATTACH JAMBS TO HEAD & SILL w/ (2) #8 X 2" PFH WOOD SCREWS @ EACH CORNER (TYP.)



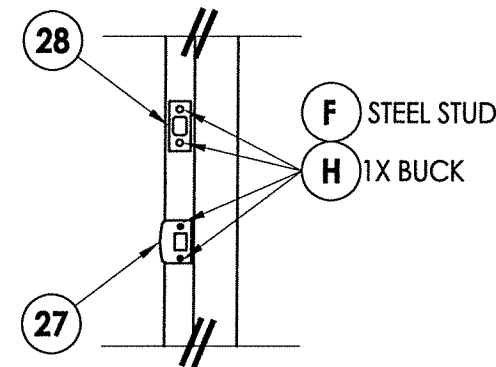
FRAME ANCHORING
Masonry 1X buck Construction
Steel Stud Construction



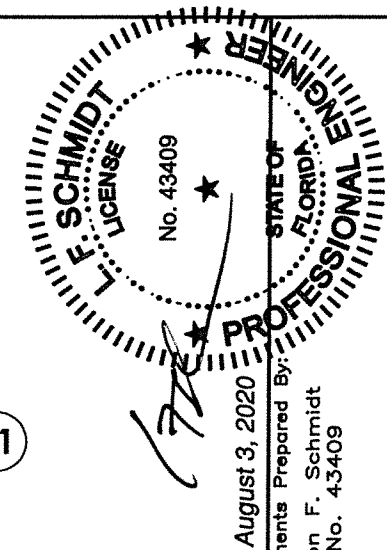
HINGE JAMB



HINGE DETAIL



LATCH & DEADBOLT DETAIL



August 3, 2020
Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT: DOERS FIBERGLASS DOOR
PART OR ASSEMBLY: FRAME ANCHORING 1X 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: 09/22/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-19007.1
SHEET 6 OF 7

CONCRETE ANCHOR NOTES:

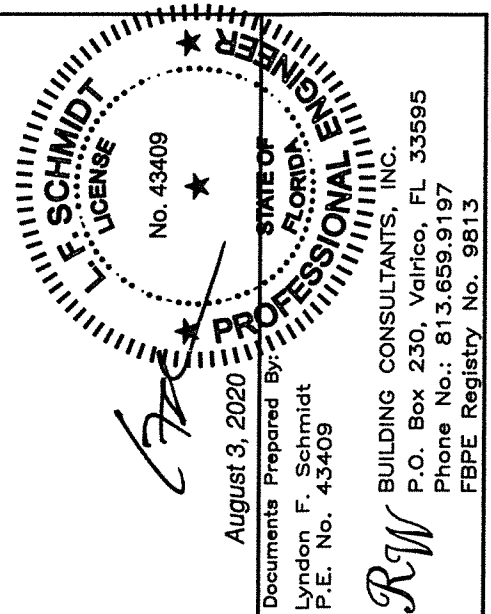
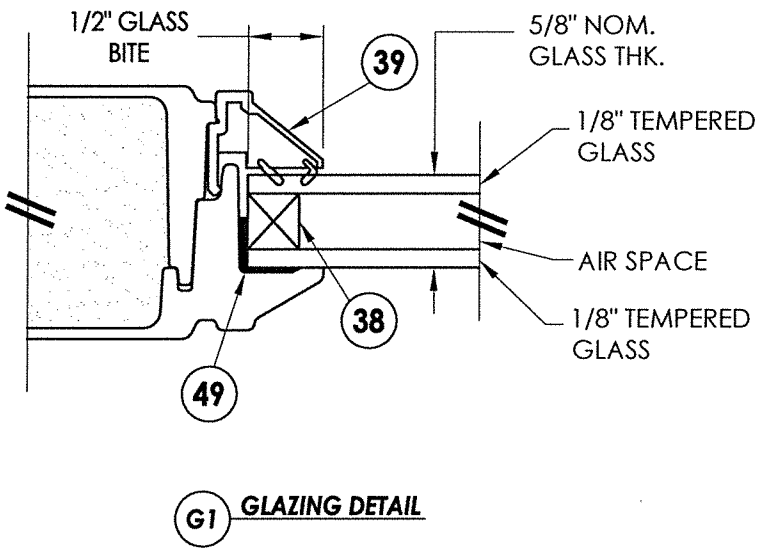
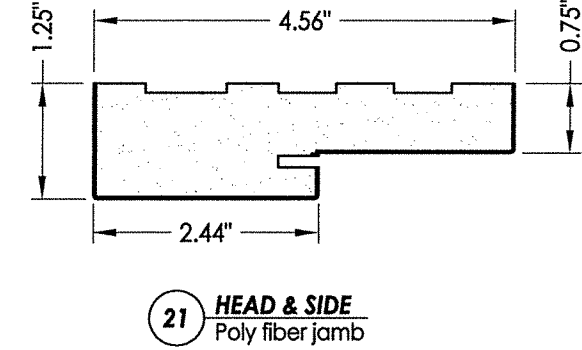
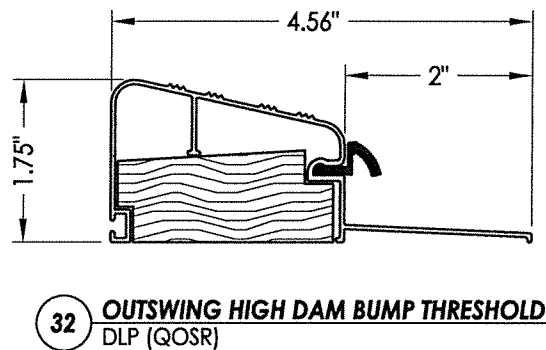
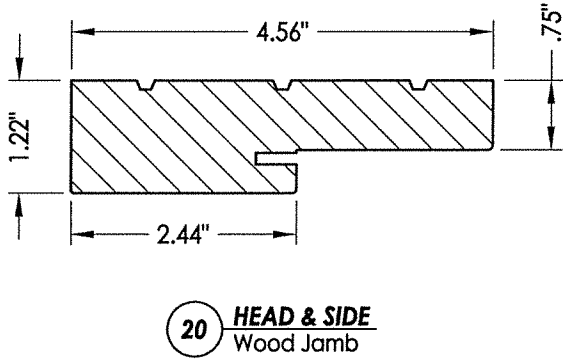
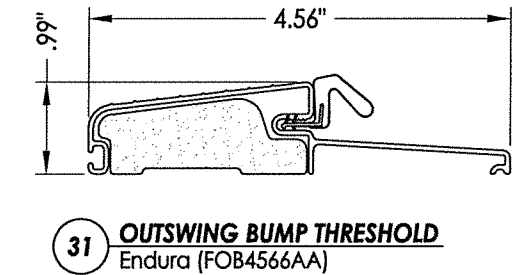
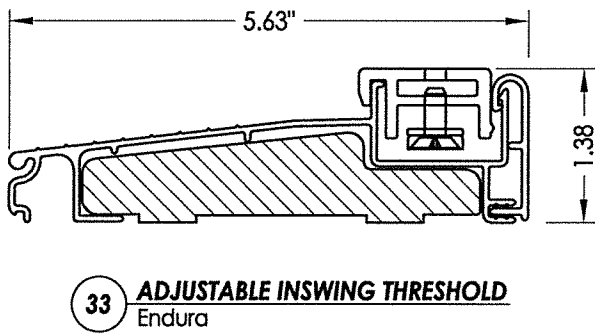
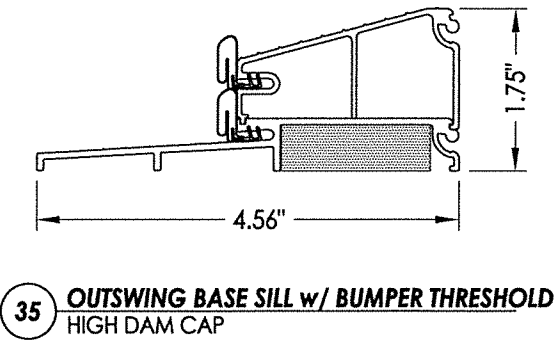
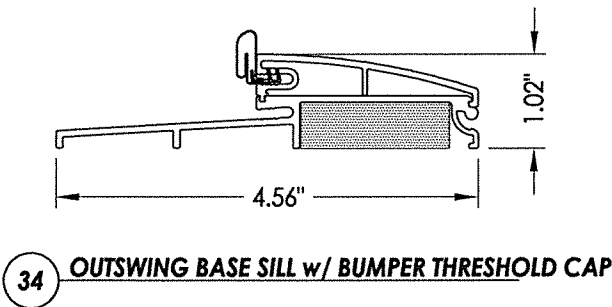
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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.

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
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	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. 0.075" 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



PRODUCT:		DOORS
		FIBERGLASS DOOR
PART OR ASSEMBLY:		BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS
		REVISIONS
NO.	DATE	BY
3	7/30/20	LFS
2	5/15/19	JK
1	9/26/17	JK
DATE: 09/22/15		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: FL-19007.1		
SHEET 7 OF 7		