

Z:\2023 FBC Drawings\MasterGrain\FL-21852 R10\FL-21852.17-18.dwg

CRAFTSMAN SERIES

FIBERGLASS GLAZED

SINGLE DOOR

INSWING/OUTSWING

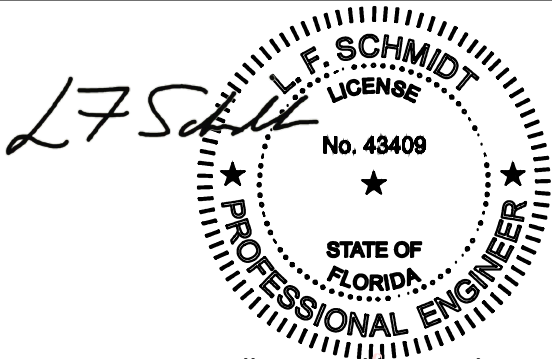
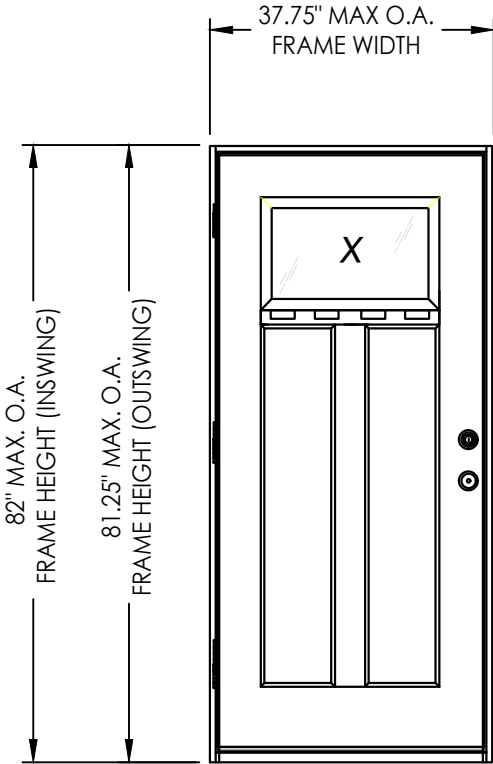
"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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.
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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7	Vertical Cross Sections (Thresholds)
8	Buck & Frame Anchoring
9	Hardware Details
10	Bill of Materials & Components

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	+65.0	-70.0	+65.0	-70.0



Digitally signed by Lyndon F Schmidt
Date: 2026.07.22 17:24:16 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
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must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

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

4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
3	7/01/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
2	7/08/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK
NO.	DATE			BY

REVISIONS

DATE: 02/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

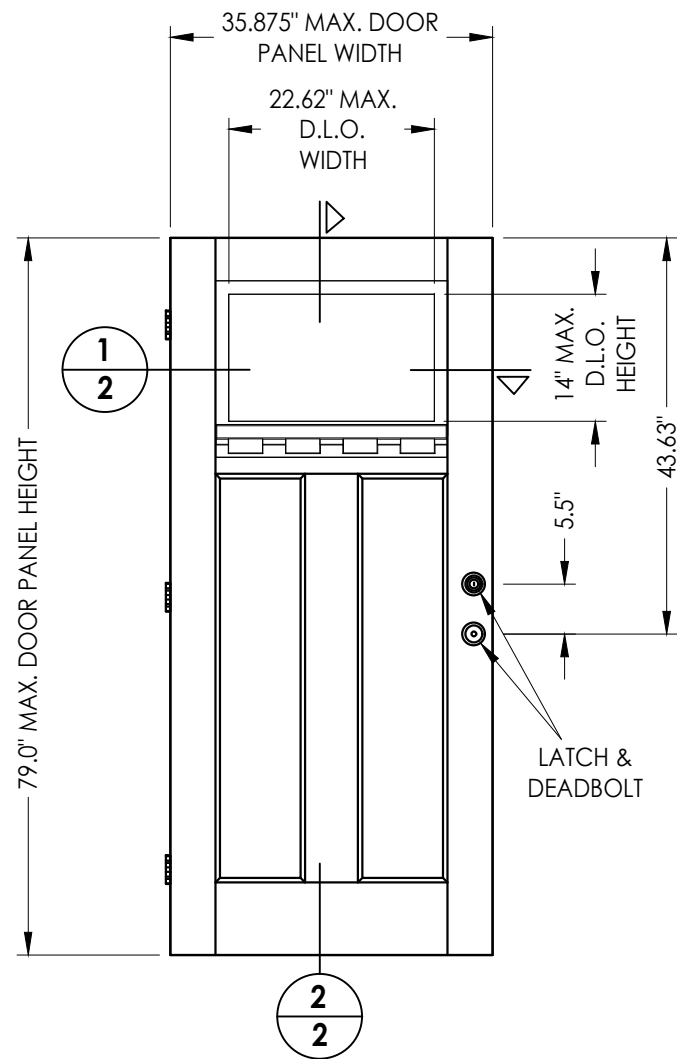
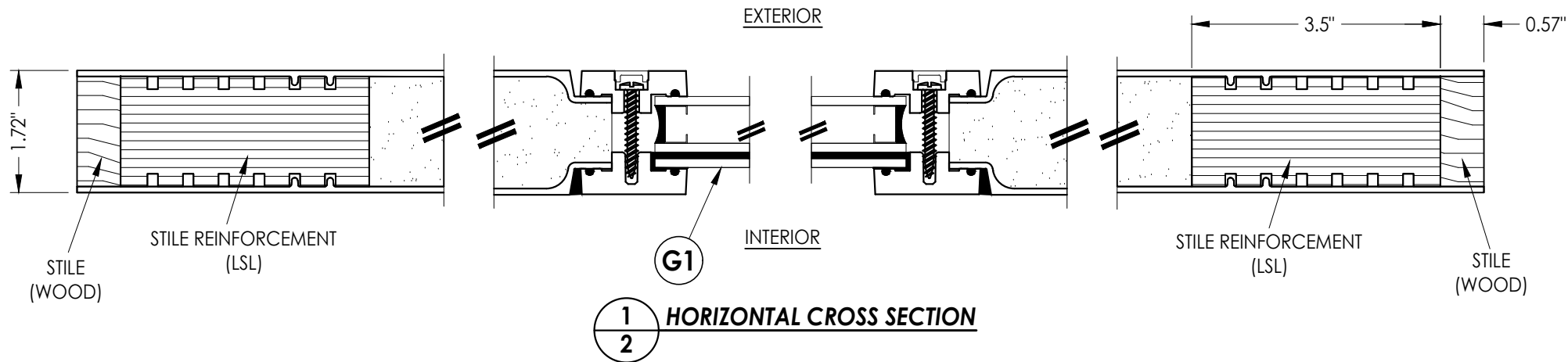
DRAWING NO.: FL-21852.18

SHEET 1 OF 10

Building Consultants, Inc.
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FBPE Registry No. 9813

RW

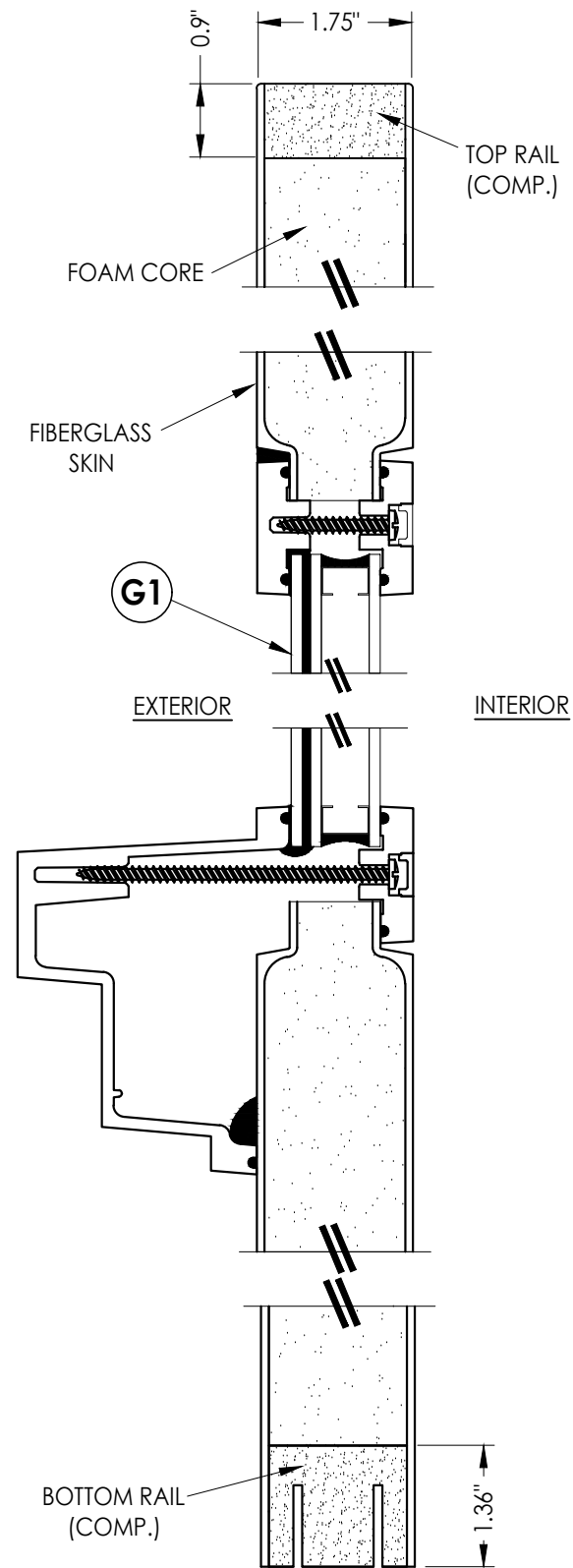
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CRAFTSMAN

40 DOOR PANEL
Mastergrain

FIBERGLASS DOOR SKIN: 0.095" MIN. THK.
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.



2
2

VERTICAL CROSS SECTION

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PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/08/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/03/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 02/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21852.18

SHEET 2 OF 10

4.12"

3"

1.4"

0.13"

1.75"

1" NOMINAL

1.5"

0.625"

0.37"

SECTION A-A

0.36"

0.59"

1.5"

1.5"

1" NOMINAL

SECTION B-B

The diagram illustrates a cross-section of a double-pane window assembly. The top half is labeled "INTERIOR" and the bottom half is labeled "EXTERIOR". The assembly consists of two glass panes: a 1/8" tempered glass pane on the interior side and a 1/8" annealed glass pane on the exterior side. These panes are separated by a 0.090" Saflex PVB interlayer. The total thickness of the glass unit is 1" O.A. (Overall Assembly). The glass panes are held in place by aluminum spacers and are sealed with glazing tape. The spacers are secured with #10 x 1-1/4" PPH SMS (Self-Drilling Metal Screws) on the interior side and #10 x 3" PPH SMS on the exterior side. The entire assembly is mounted in a frame, with DOW 995 (a type of sealant) used to secure the spacers and the glass unit. The diagram also shows the 1/2" glass bite and the 1" O.A. glass thickness.

INTERIOR

1/2" GLASS BITE

1" O.A. GLASS THICKNESS

1/2" GLASS BITE

GLAZING TAPE

1/8" TEMPERED GLASS

AIR SPACE

1/8" ANNEALED GLASS

0.090" SAFLEX PVB INTERLAYER

1/8" ANNEALED GLASS

ALUMINUM SPACER

DOW 995

#10 X 1-1/4" PPH SMS

EXTERIOR

DOW 995

ALUMINUM SPACER

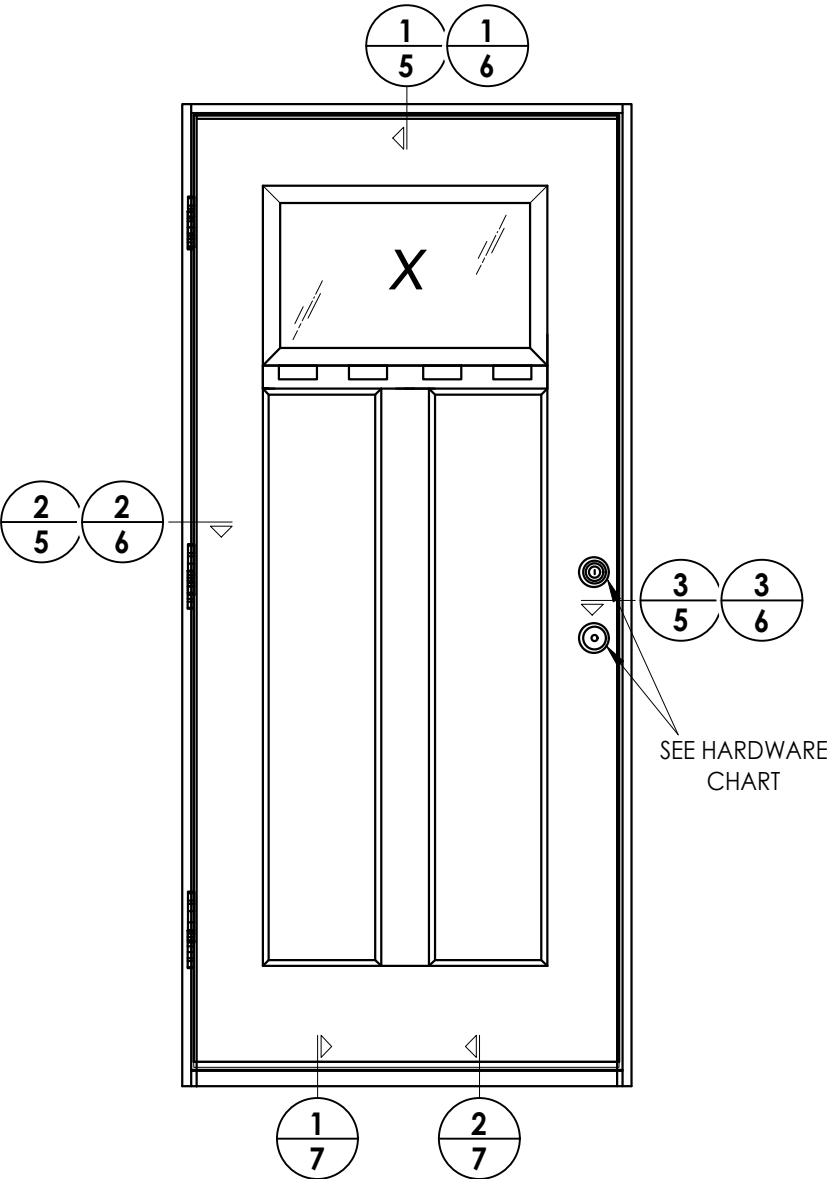
#10 X 3" PPH SMS

G1 GLAZING DETAIL
Craftsman Lite

[illegible]

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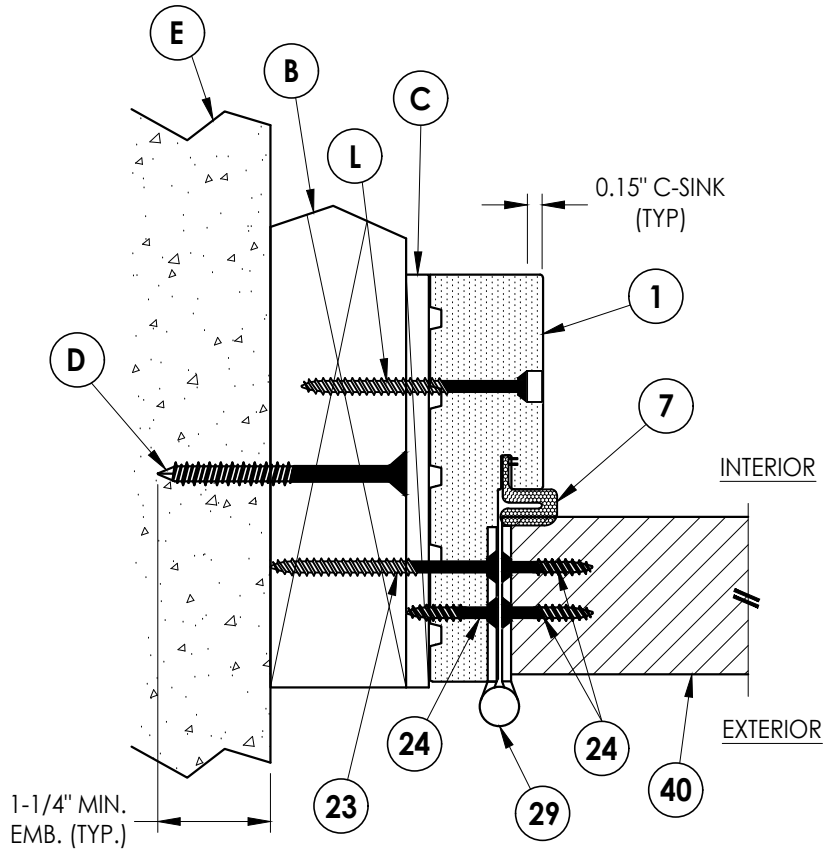


HARDWARE TABLE	
MANUFACTURER	MODEL
PAMEX	KNOB: FLU600 DEADBOLT: FD261
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: F51 DEADBOLT: B60N
HOPPE	MULTIPOINT: HLS™ ONE (3 pt. Manual Tongue)

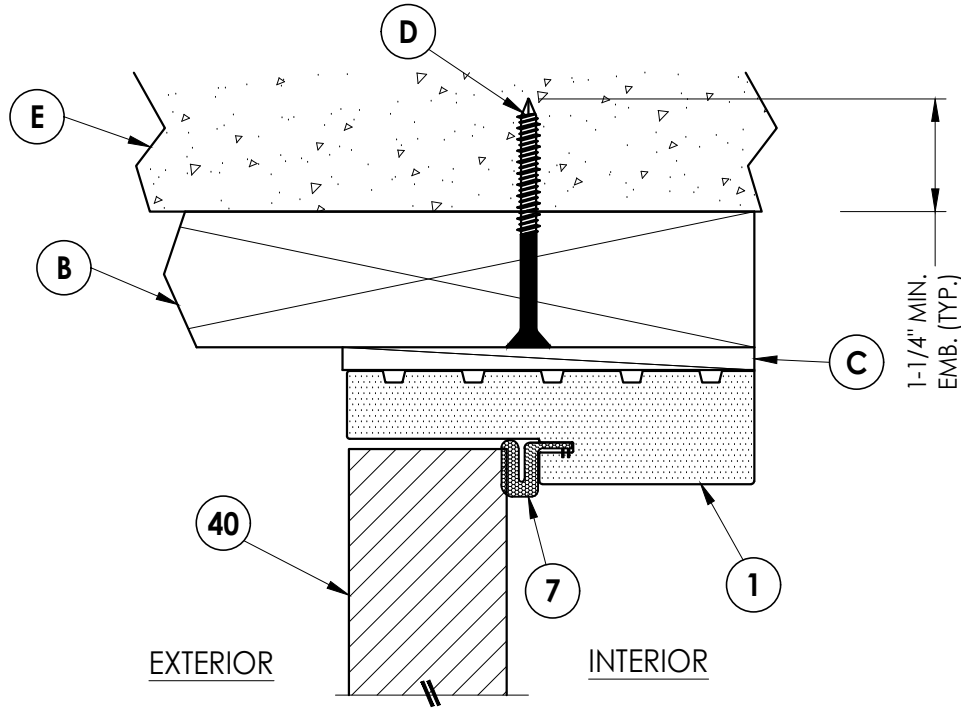
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PRODUCT:	MASTERGRAIN FIBERGLASS DOOR
PART OR ASSEMBLY:	ELEVATION

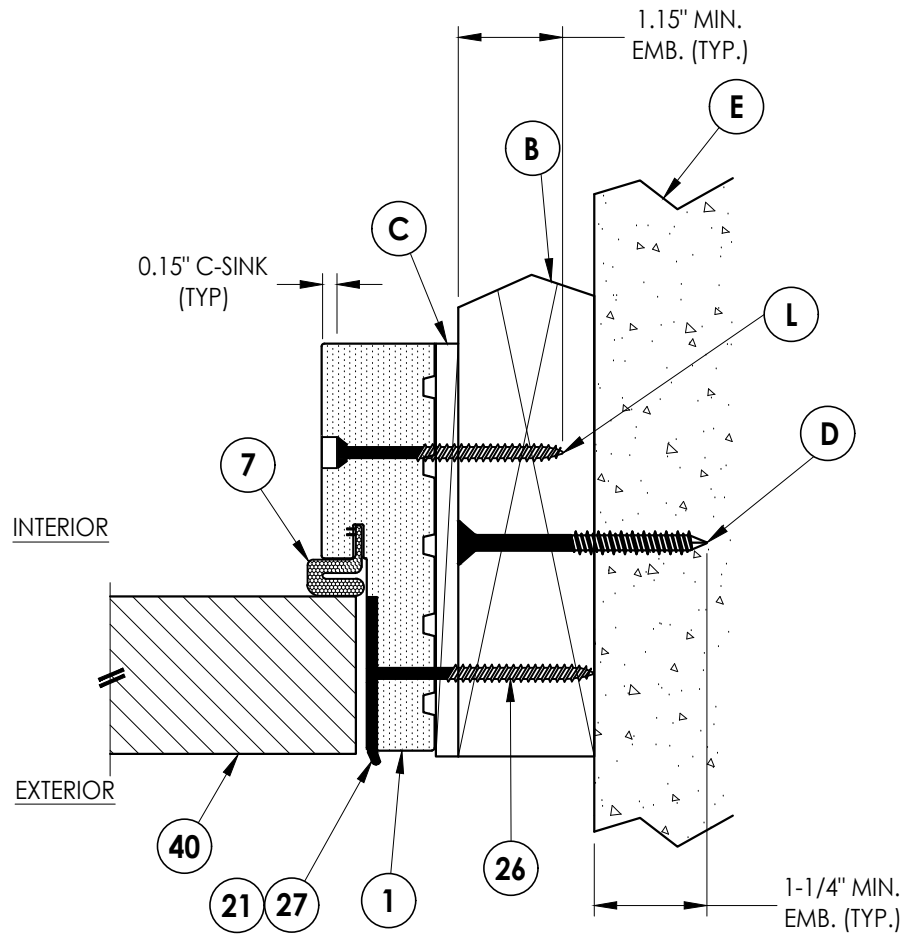
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FBPERegistry No. 9813



2 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



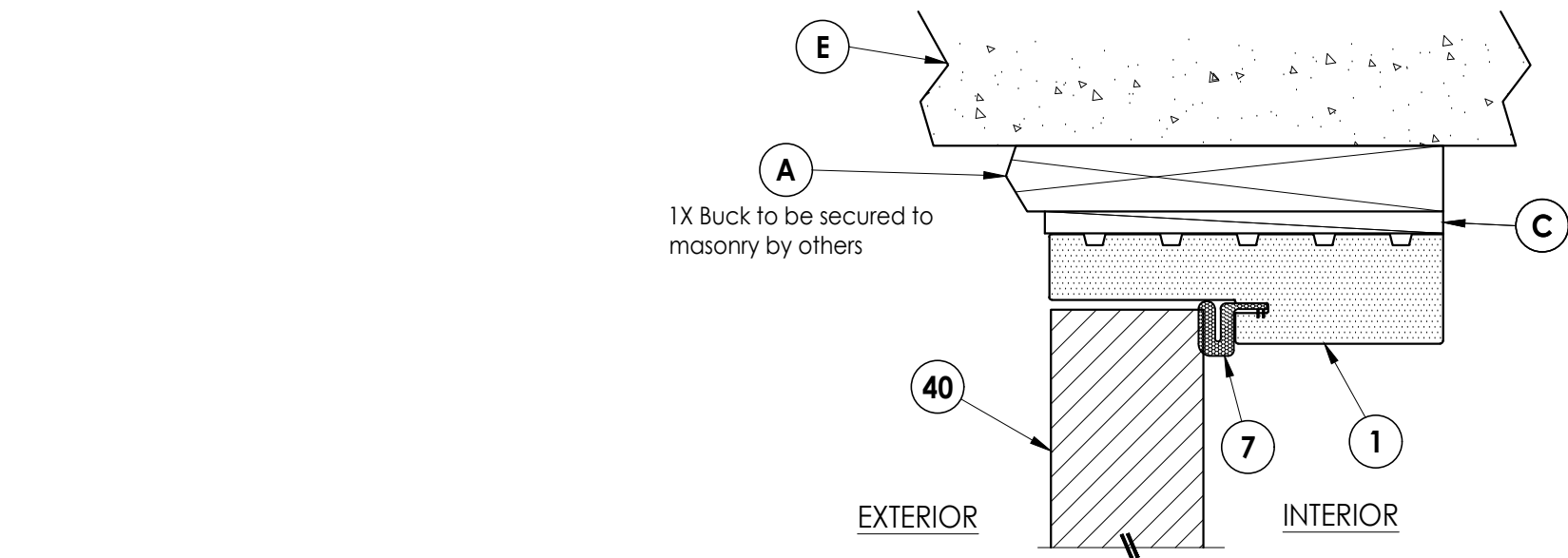
1 VERTICAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



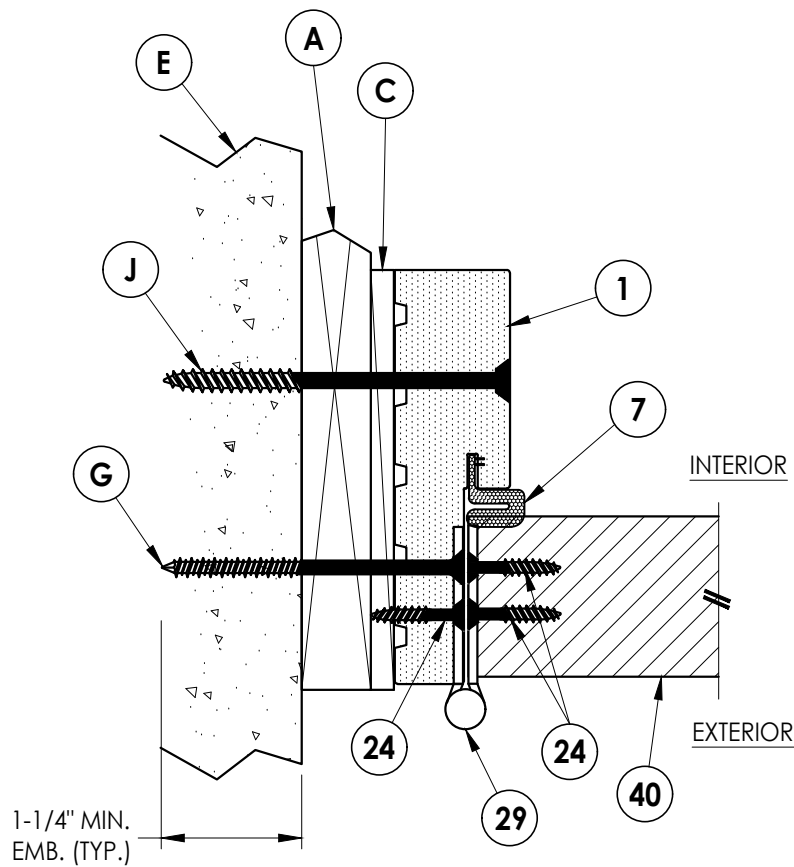
3 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)

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PRODUCT: MASTERGRAIN FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC LFS
3	7/01/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	7/08/20	UPDATE TO 7TH ED. (2020)	FBC LFS
1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC JK
NO. DATE		REVISIONS	
DATE: 02/07/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21852.18			
SHEET 5 OF 10			

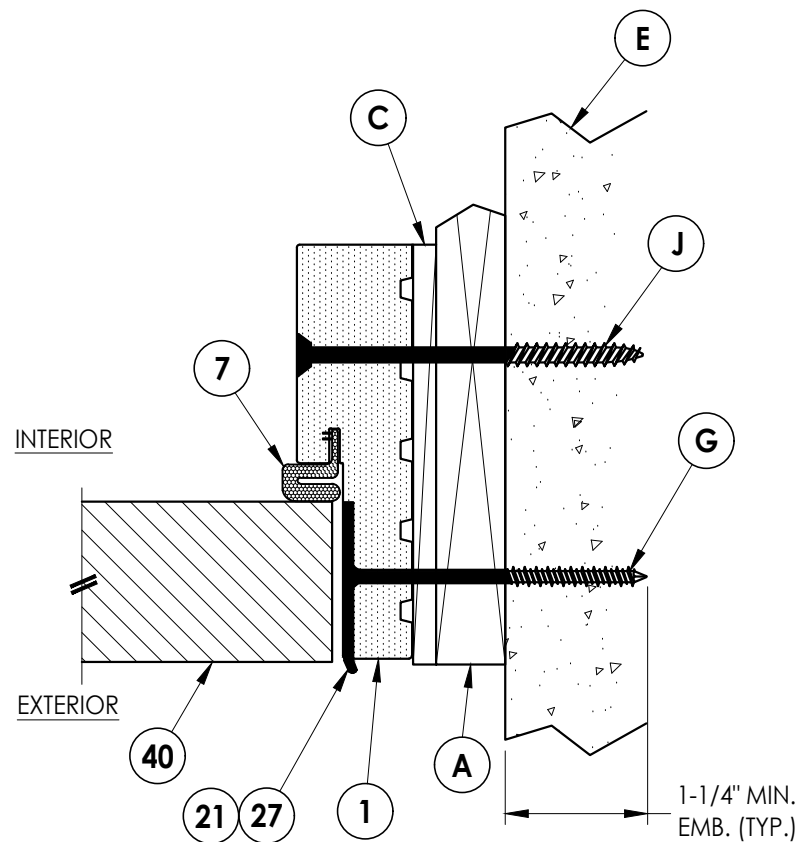
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1 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS			
		DATE	BY	CHK	APP
4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	7/01/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/08/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK	

DATE: 02/07/17

SCALE: N.T.S.

DWG. BY: JK

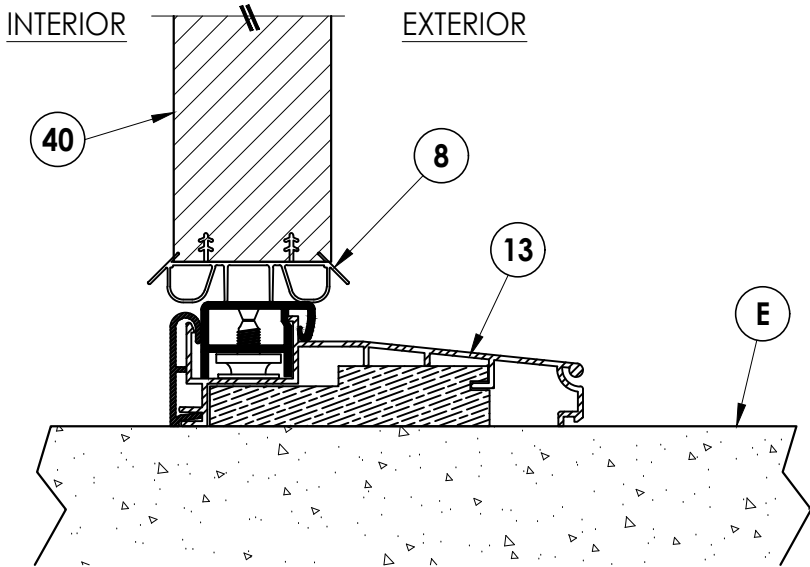
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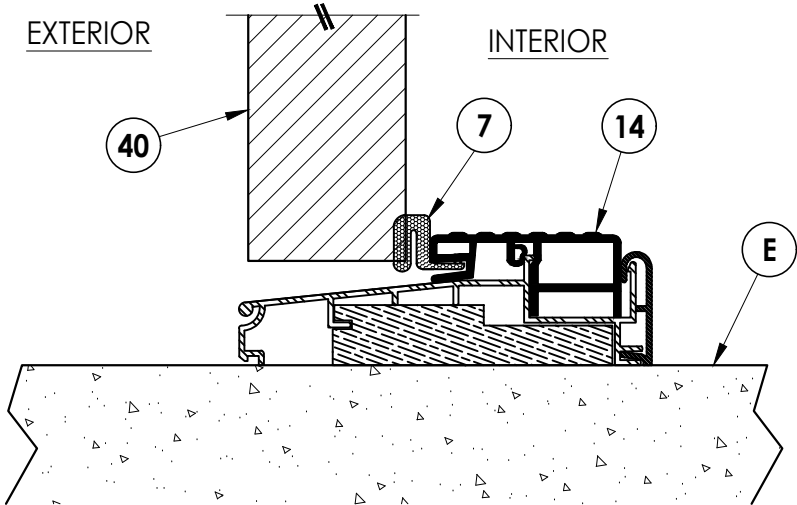
FL-21852.18

SHEET 6 OF 10

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1
7 VERTICAL CROSS SECTION
Inswing Sill



2
7 VERTICAL CROSS SECTION
Outswing Sill

DATE: 02/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-21852.18

SHEET 7 OF 10

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:

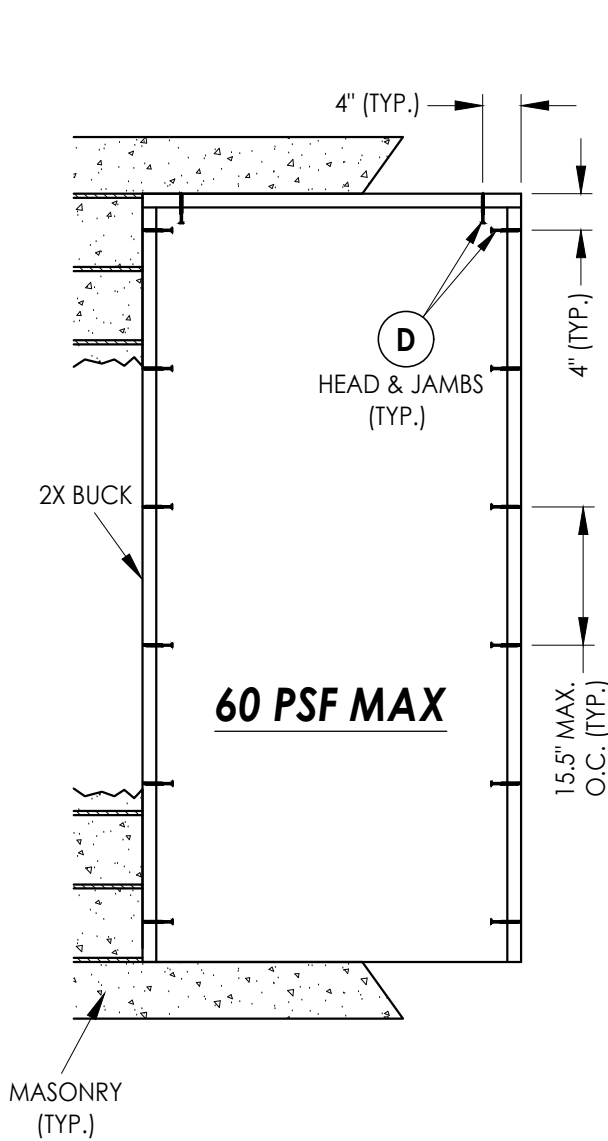
VERTICAL CROSS
SECTIONS (THRESHOLDS)

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P.E. No. 43409

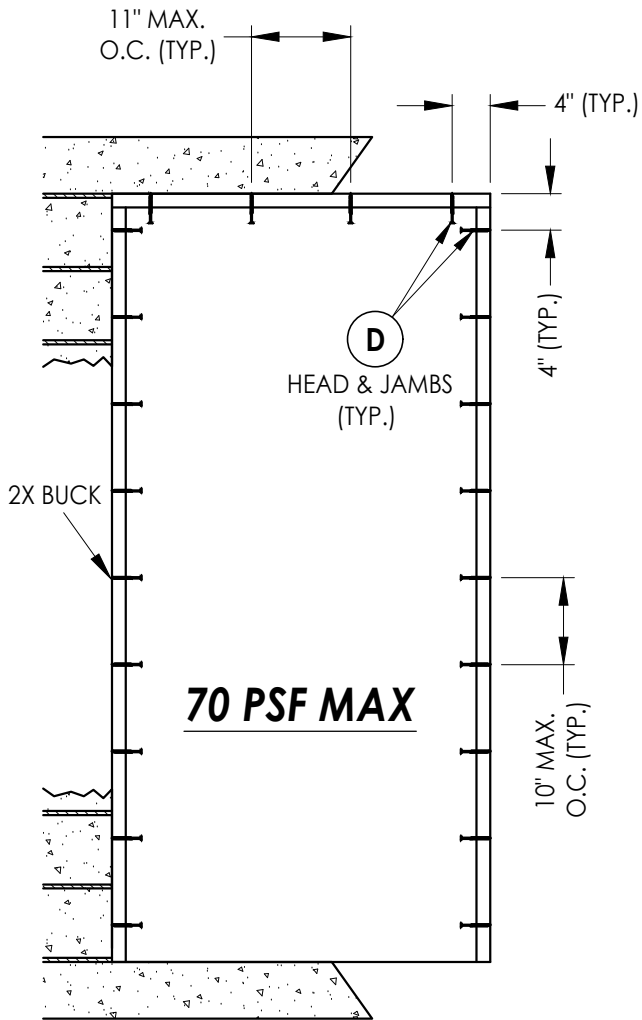
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Phone No.: 813.659.9197
FBPE Registry No. 9813

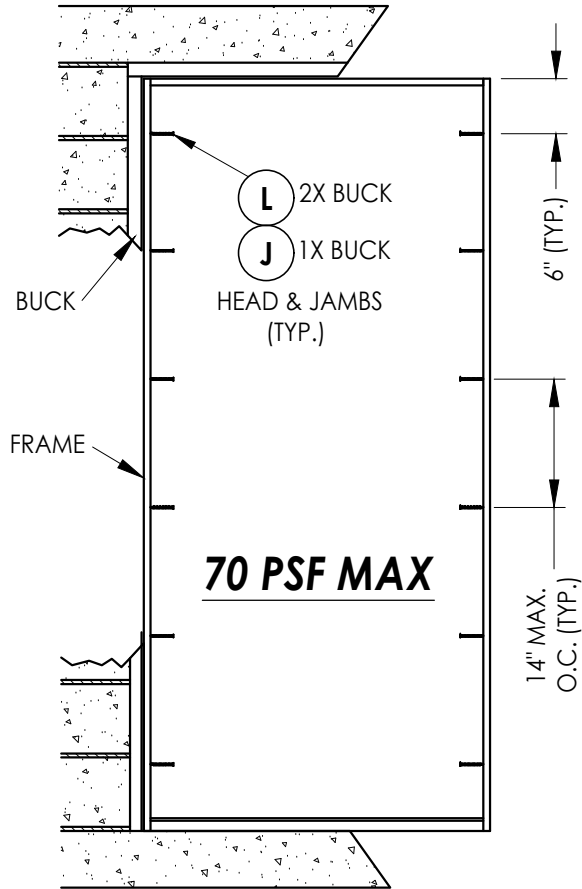
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2X BUCK ANCHORING



2X BUCK ANCHORING



FRAME ANCHORING

NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD WOOD SCREWS @ HEAD & SILL.

DATE		NO.		DATE		BY		REVISIONS	
4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS					
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2	7/08/20	UPDATE TO 7TH ED. (2020)	FBC	LFS					
1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK					

DATE: 02/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21852.18

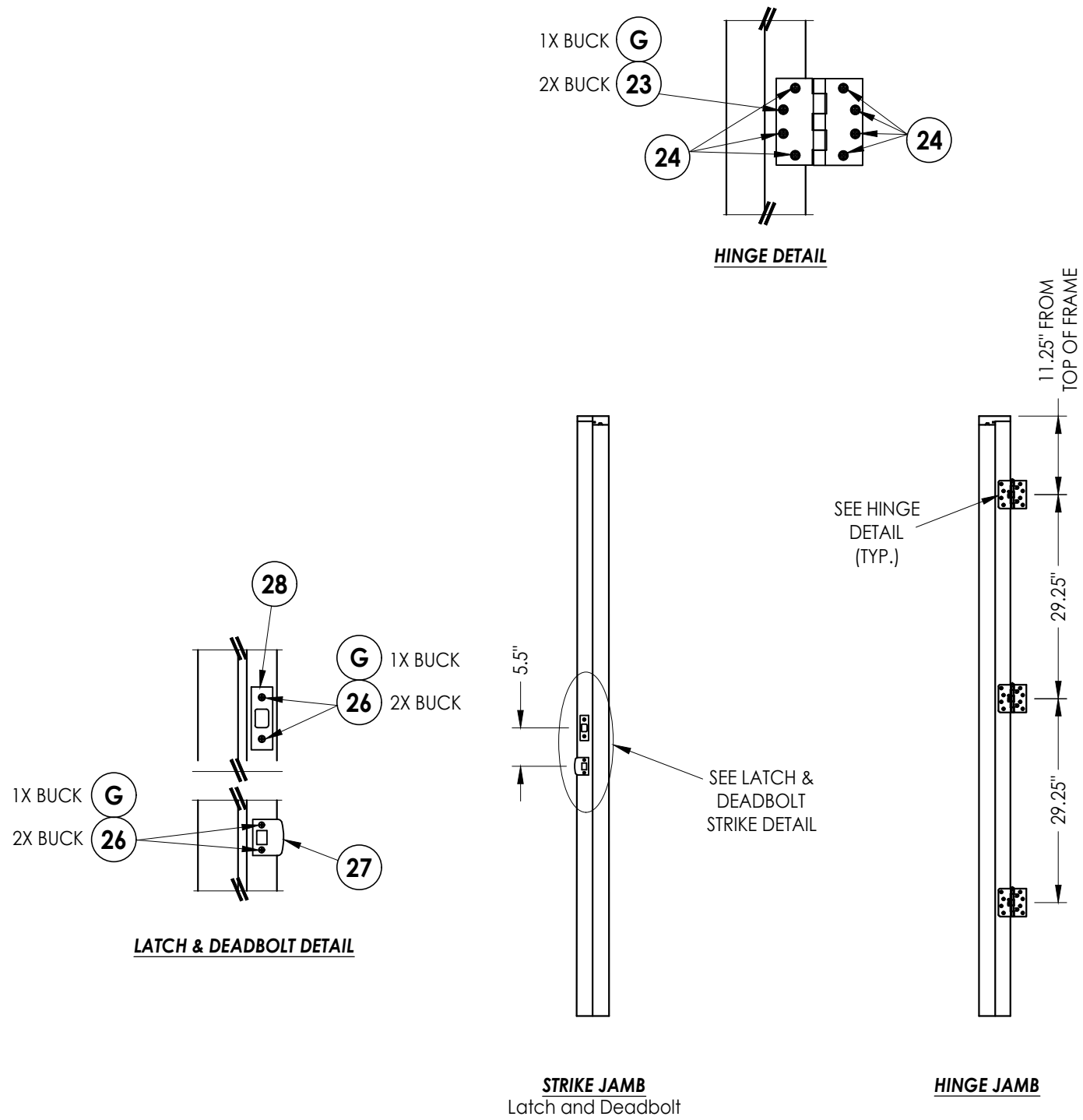
SHEET 8 OF 10

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

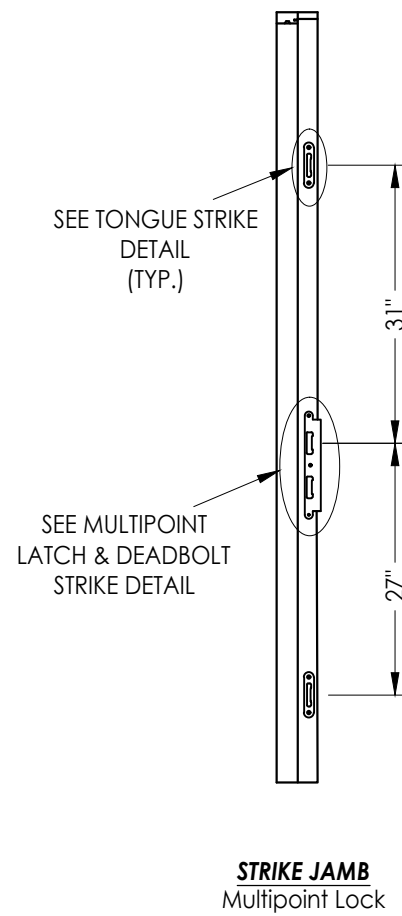
PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

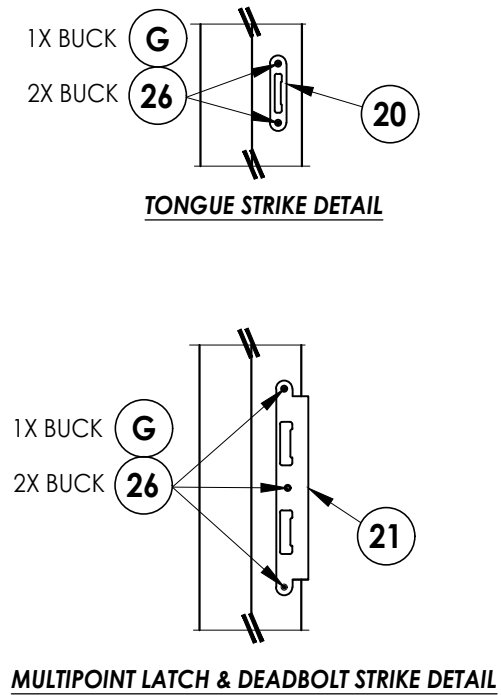
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P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



LATCH & DEADBOLT HARDWARE DETAILS



MULTIPOINT LOCK HARDWARE DETAILS



DATE:	02/09/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-21852.18	
SHEET	9	OF 10

RW BUILDING CC
P.O. Box 23
Phone No.:
FBPE Regist

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

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	COMPOSITE JAMB	COMP
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
13	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
14	OUTSWING BUMP THRESHOLD	ALUM/COMP
20	MULTIPOINT TONGUE STRIKE PLATE	STEEL
21	MULTIPOINT LATCH & DEADBOLT STRIKE PLATE	STEEL
23	#12 X 2-1/2" PFH WOOD SCREW	STEEL
24	#12 x 1" PFH WOOD SCREW	STEEL
26	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
40	DOOR PANEL	-

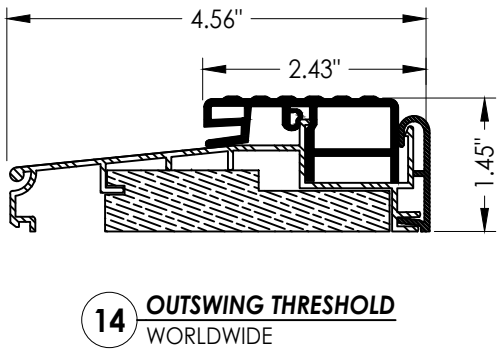
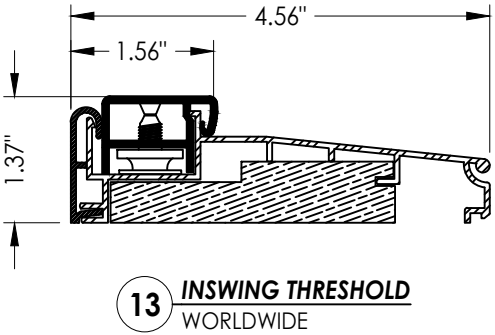
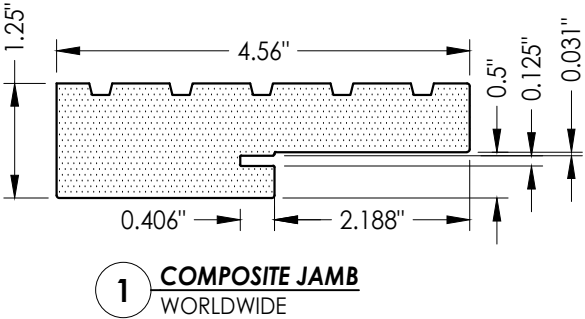
CONCRETE ANCHOR NOTES:

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"
DeWALT ULTRA-CON®	1/4"	1-1/4"	1"	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.



DATE: 02/07/17		SHEET 10 OF 10		DRAWING NO.: FL-21852.18		CHK. BY: LFS		DWG. BY: JK		SCALE: N.T.S.	
NO.		DATE		REVIEWS		BY		JK		LFS	
1		10/03/17		UPDATE TO 6TH ED. (2017)		FBC		JK		LFS	
2		7/08/20		UPDATE TO 7TH ED. (2020)		FBC		LFS		LFS	
3		7/01/23		UPDATE TO 8TH ED. (2023)		FBC		LFS		LFS	
4		7/01/26		UPDATE TO 9TH ED. (2026)		FBC		LFS		LFS	
PRODUCT:		MASTERGRAIN FIBERGLASS DOOR									
PART OR ASSEMBLY:		BILL OF MATERIALS AND COMPONENTS									
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									