

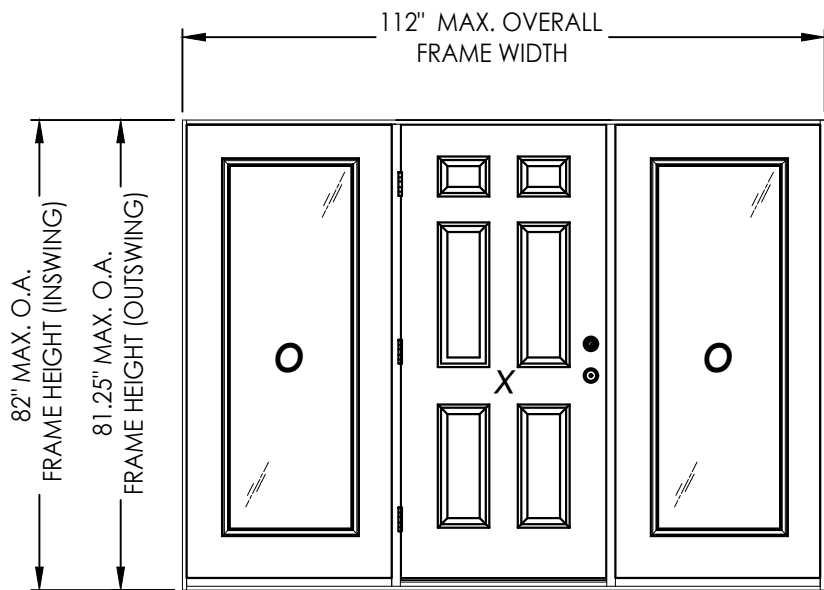
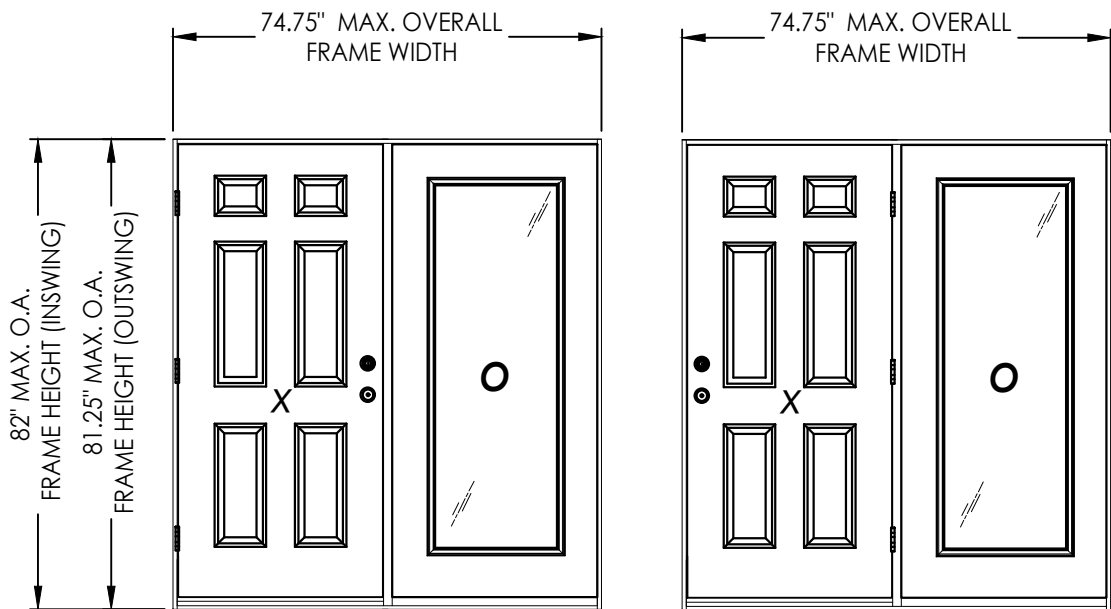
Z:\2023 FBC Drawings\MasterGrain\FL-21852 R8\FL-21852.11-12.dwg

FIBERGLASS OPAQUE
SINGLE DOOR
w/ or w/out SIDELITE(S)
INSWING/OUTSWING
"IMPACT"

GENERAL NOTES

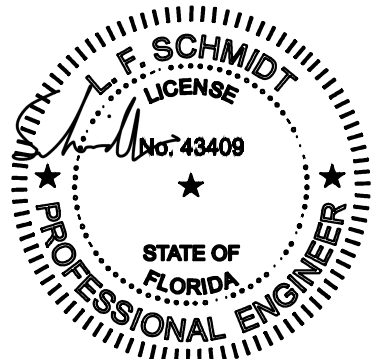
- This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond 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.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Sidelite Panel Details
4	Glazing Details
5	Elevations
6	Horizontal & Vertical Cross Sections (2X Buck)
7	Horizontal & Vertical Cross Sections (1X Buck)
8	Horizontal Cross Sections
9	Vertical Cross Sections (Thresholds)
10	Buck Anchoring
11	Frame Anchoring
12	Hardware Details
13	Bill of Materials & Components



CONTINUOUS HEAD & SILL

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+50.0	-55.0	+50.0	-50.0



Digitally signed by Lyndon F Schmidt
Date: 2023.07.03 09:40:31 -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
considered signed and sealed and the signature
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

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

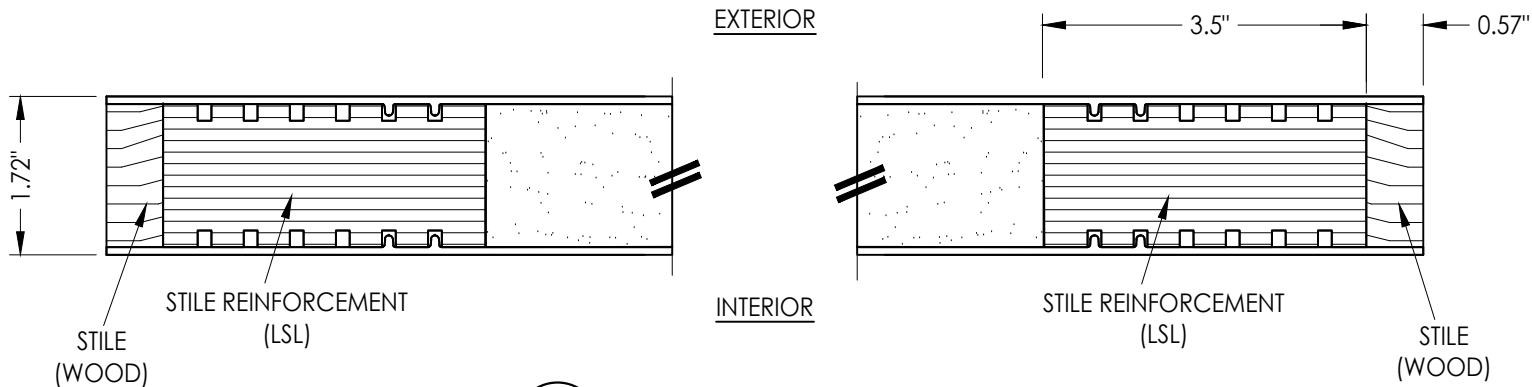
PRODUCT: MASTERGRAIN
FIBERGLASS DOOR

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

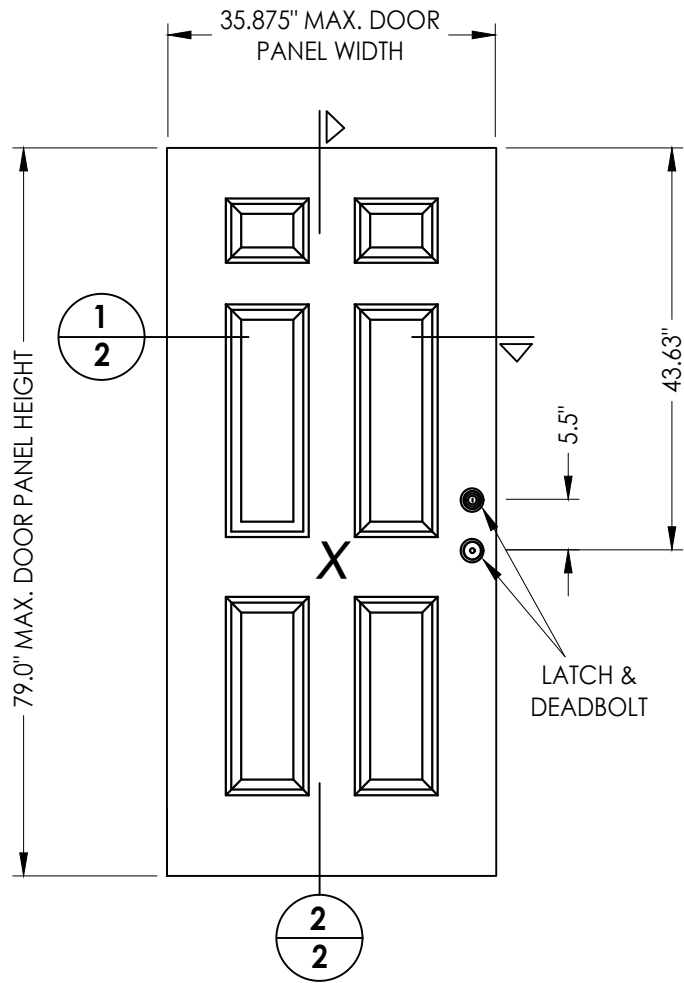
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2	7/08/20	UPDATE TO 7TH ED. (2020) FBC
1	10/03/17	UPDATE TO 6TH ED. (2017) FBC

DATE: 02/09/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21852.12
SHEET 1 OF 13

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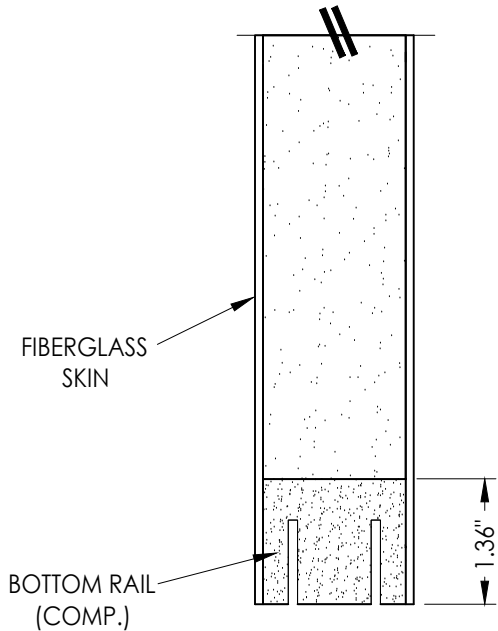
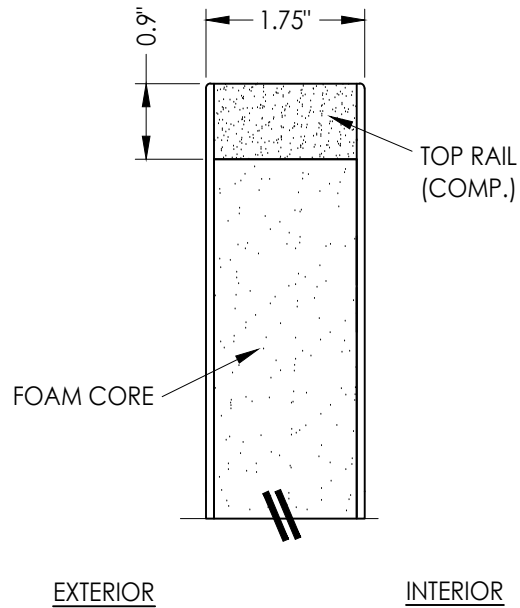


1
2 **HORIZONTAL CROSS SECTION**



40 **DOOR PANEL**
Mastergrain

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



2
2 **VERTICAL CROSS SECTION**

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

PRODUCT: **MASTERGRAIN
FIBERGLASS DOOR**

PART OR ASSEMBLY:
DOOR PANEL DETAILS

REVISIONS			
NO.	DATE	BY	JK
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: 02/09/17

SCALE: N.T.S.

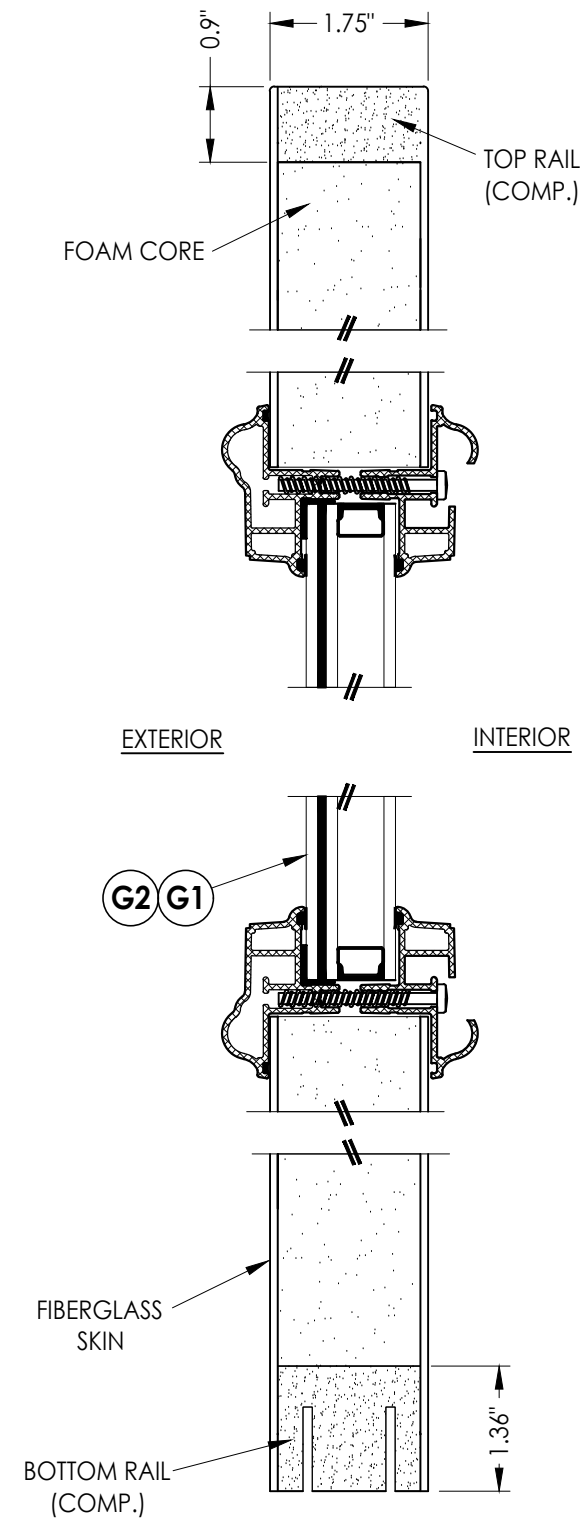
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21852.12

SHEET 2 OF 13

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



2 VERTICAL CROSS SECTION

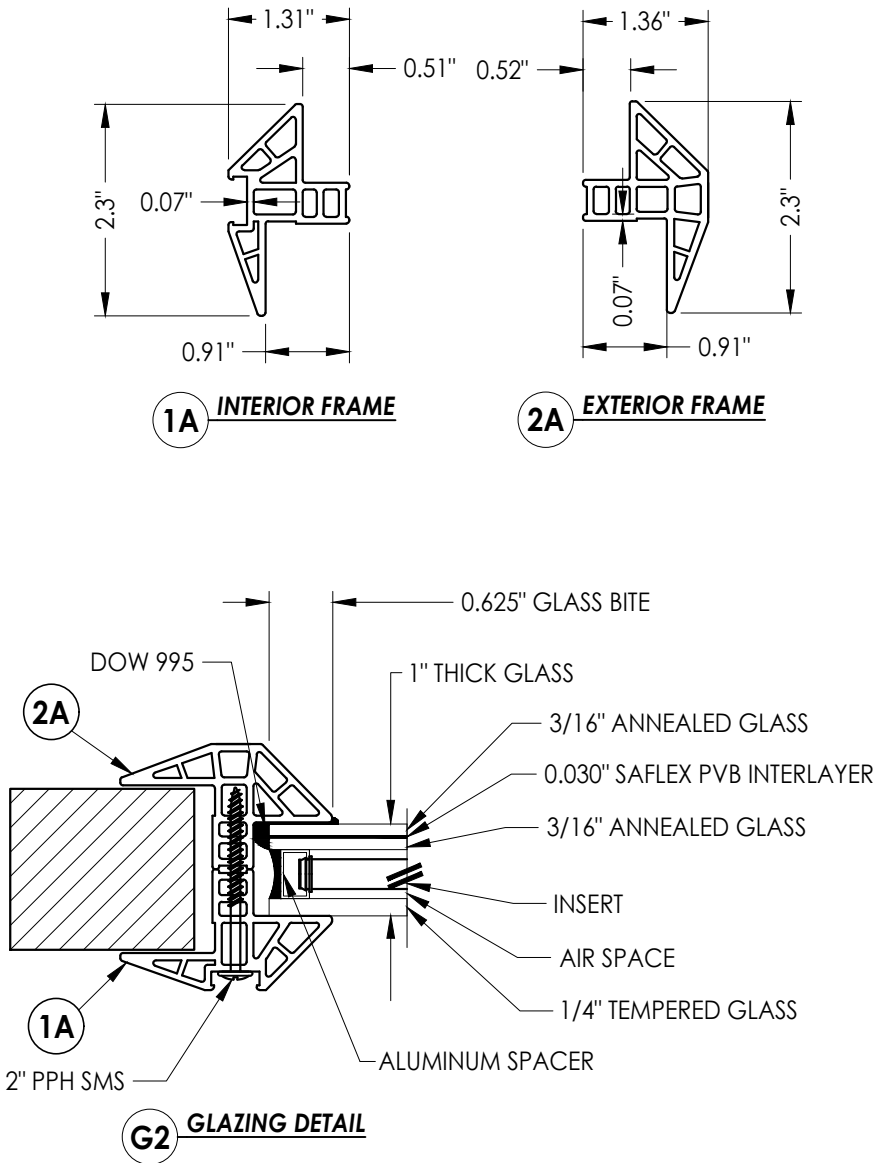
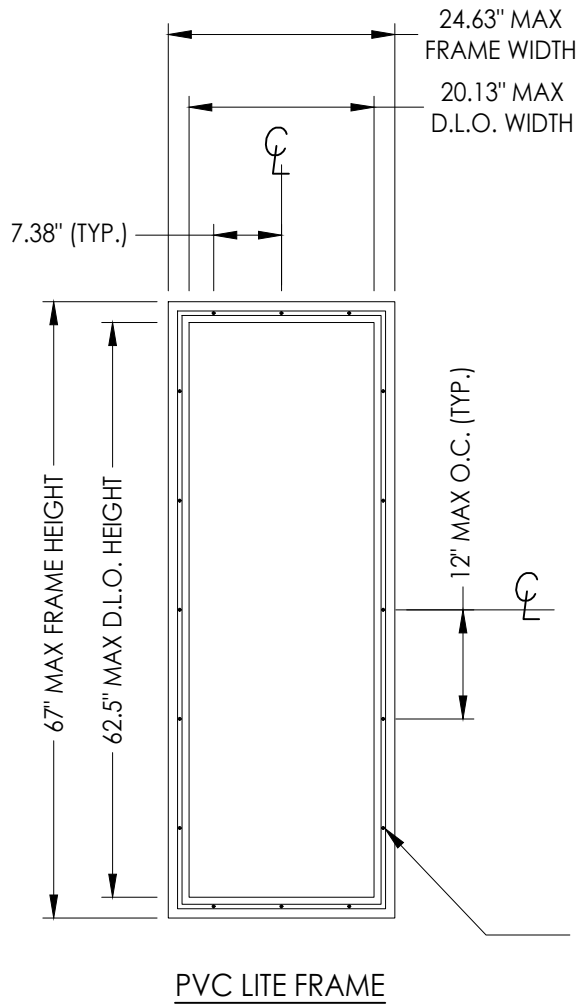
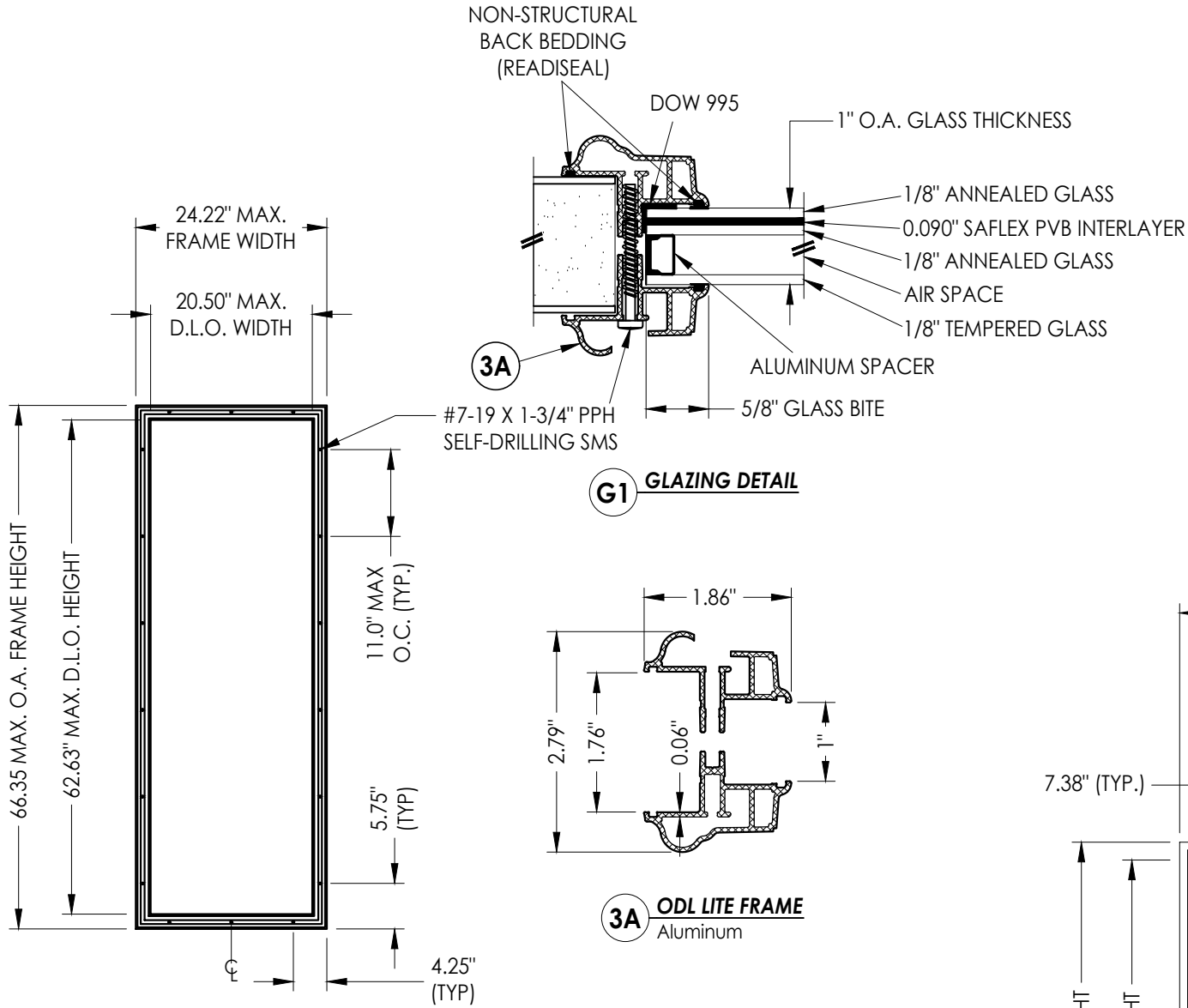
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2	7/08/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	10/03/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
NO.	DATE				
					REVISIONS

DATE:	02/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21852.12
SHEET	3 OF 13

Documents Prepared By:
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FBPE Registry No. 9813

Z:\2023 FBC Drawings\MasterGrain\FL-21852 R8\FL-21852.11-12.dwg



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

PRODUCT:	MASTERGRAIN FIBERGLASS DOOR	
	PART OR ASSEMBLY:	GLAZING DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	CHK.	APP.
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:	02/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21852.12
SHEET	4 OF 13

A diagram of a 3x3 grid. The top row contains circles with $\frac{3}{6}$, $\frac{3}{7}$, $\frac{4}{6}$, and $\frac{4}{7}$. The middle row contains circles with $\frac{1}{8}$, $\frac{2}{8}$, and $\frac{2}{7}$. The bottom row contains circles with $\frac{1}{9}$, $\frac{2}{9}$, $\frac{3}{9}$, and $\frac{4}{9}$. Arrows indicate a path starting from the bottom row, moving up to the middle row, and then to the top row. A large 'X' is placed in the center of the grid.

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)

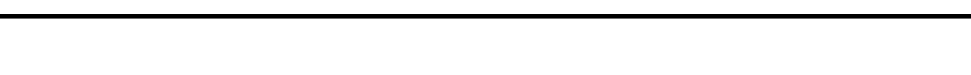
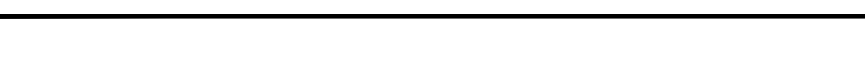
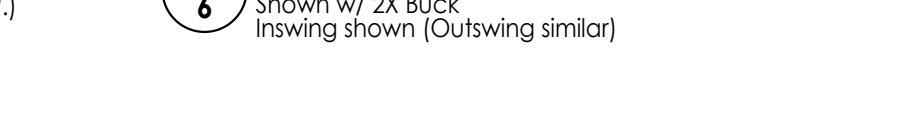
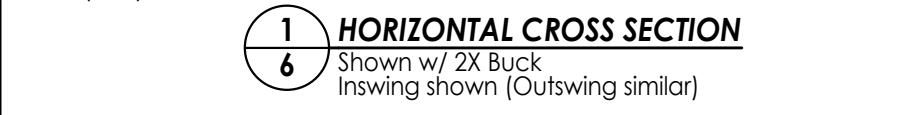
[illegible]

PRODUCT: MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:

Documents Prepared By:
Lyndon F. Schmidt
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BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813



5" C-SINK
(TYP)

0.15" C-SINK
(TYP)

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

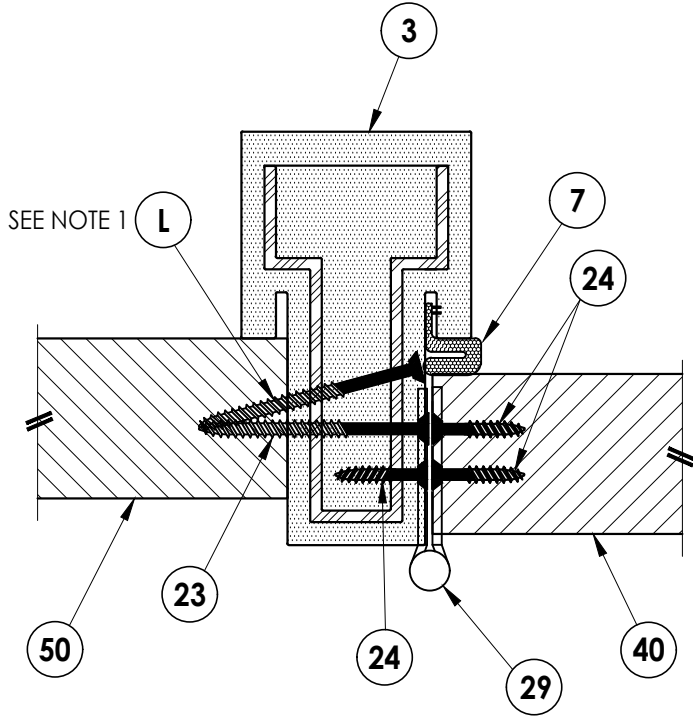
RW

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X)

DATE:	02/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21852.12
SHEET	<u>6</u> OF <u>13</u>

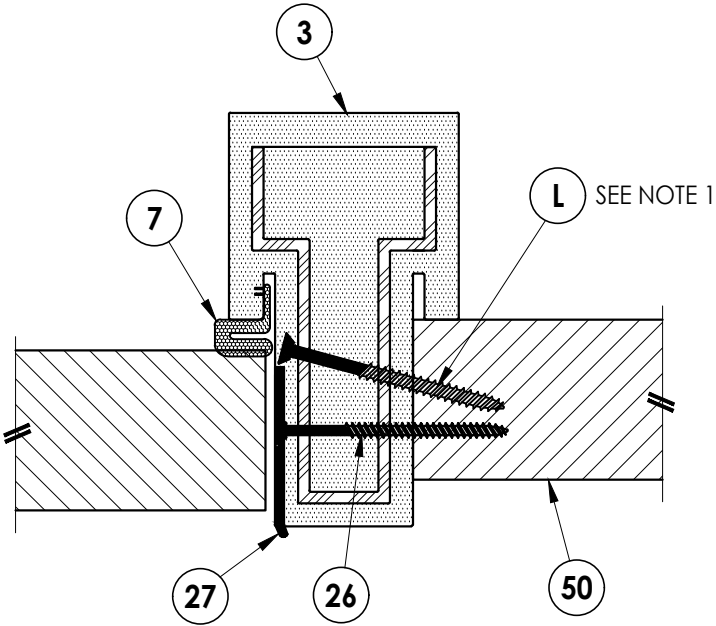
DATE:	02/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21852.12
SHEET	7 OF 13

NOTE:
1. Item #L located 4" from each end then 5 more equally spaced (7 total).



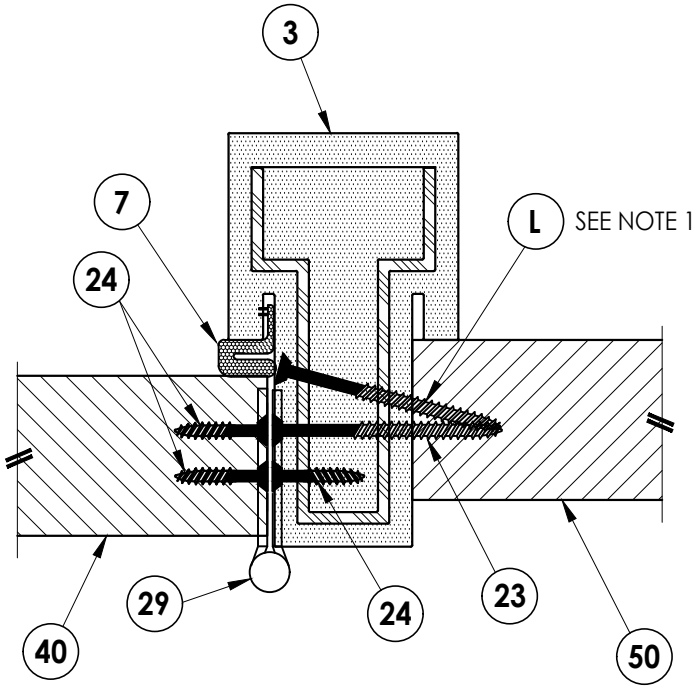
1
8 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

EXTERIOR



2
8 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

INTERIOR



3
8 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

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

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
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: 02/09/17

SCALE: N.T.S.

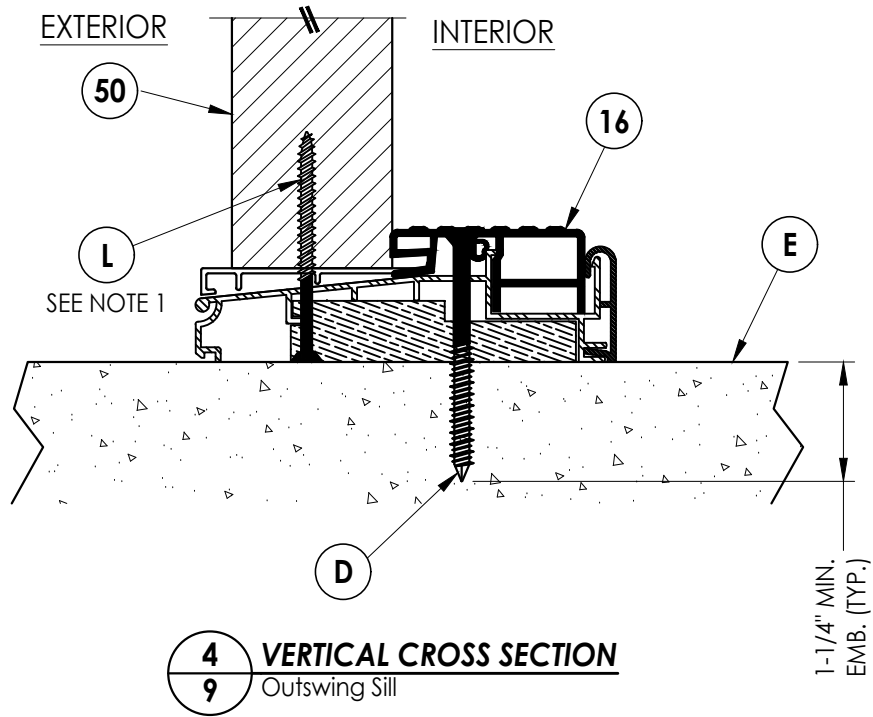
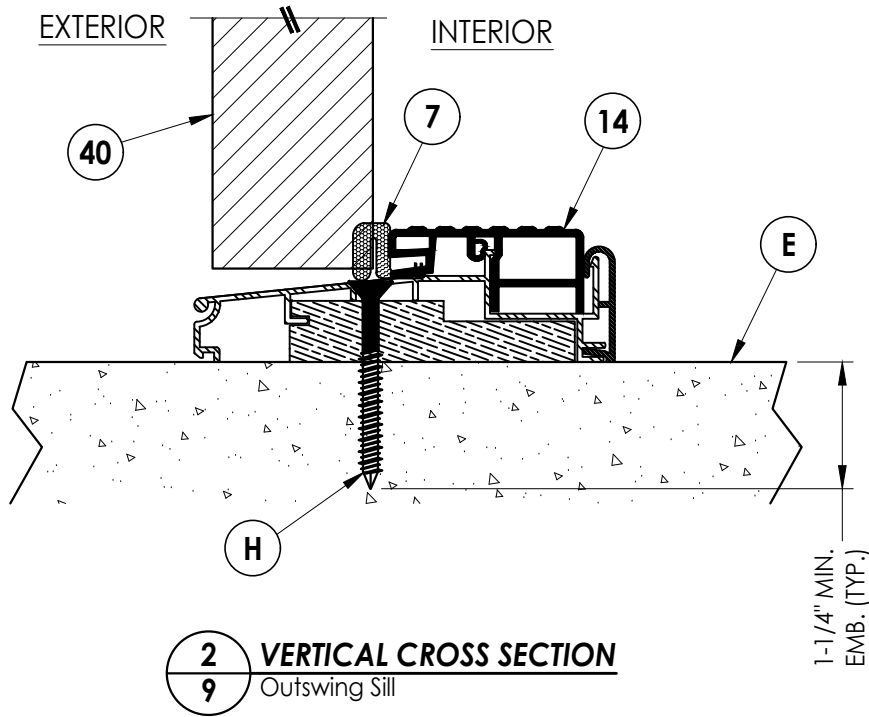
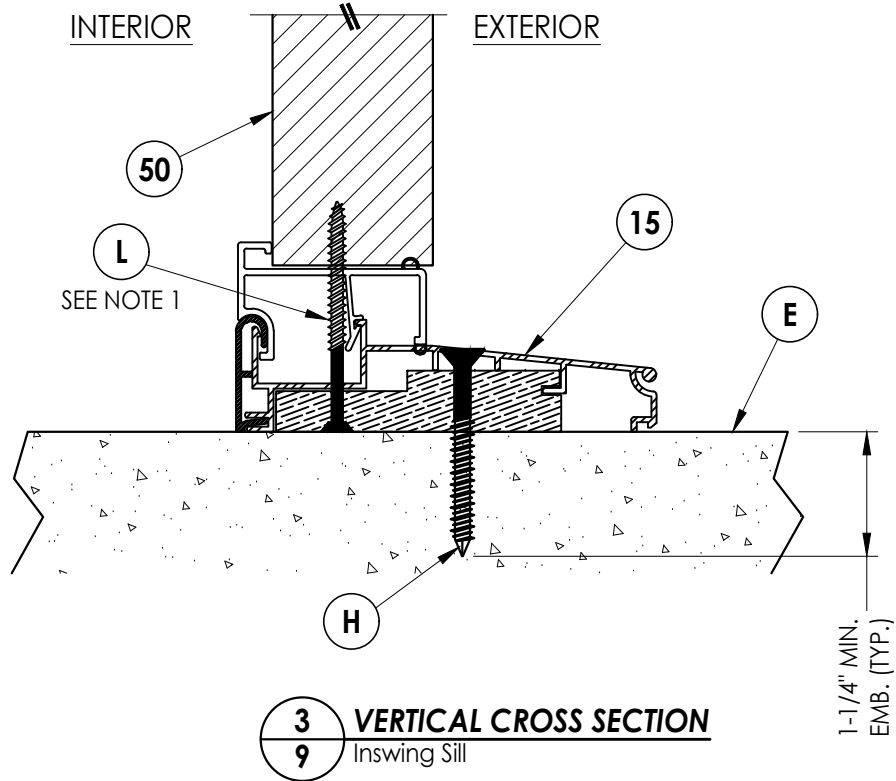
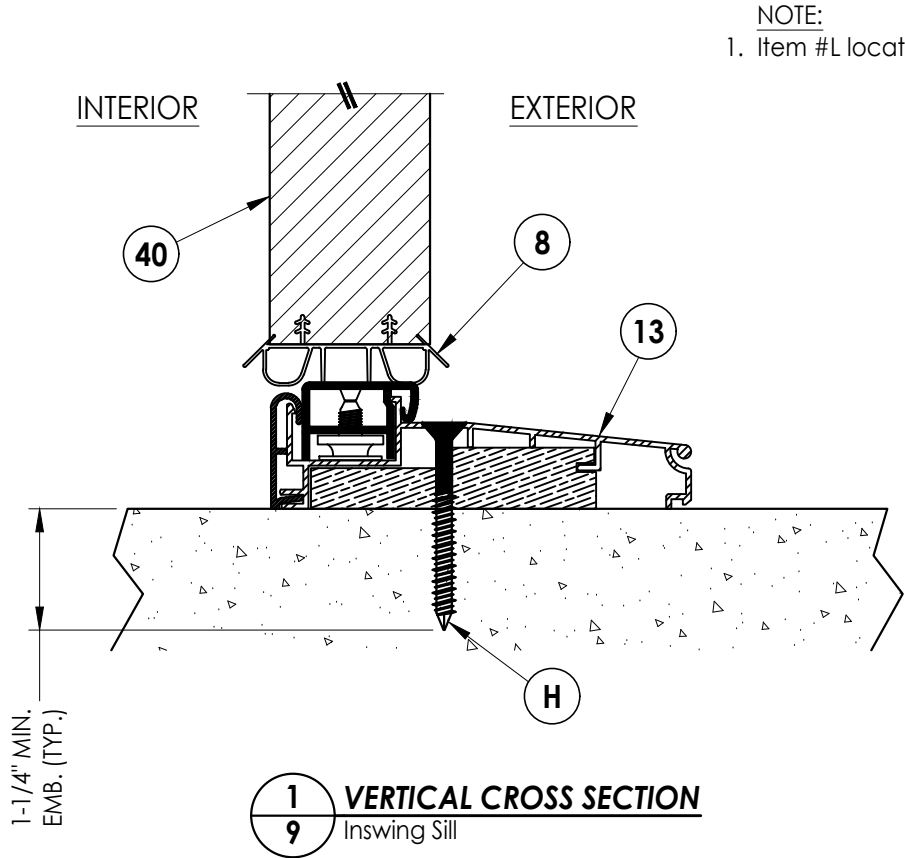
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CHK. BY: LFS

DRAWING NO.:
FL-21852.12

SHEET 8 OF 13

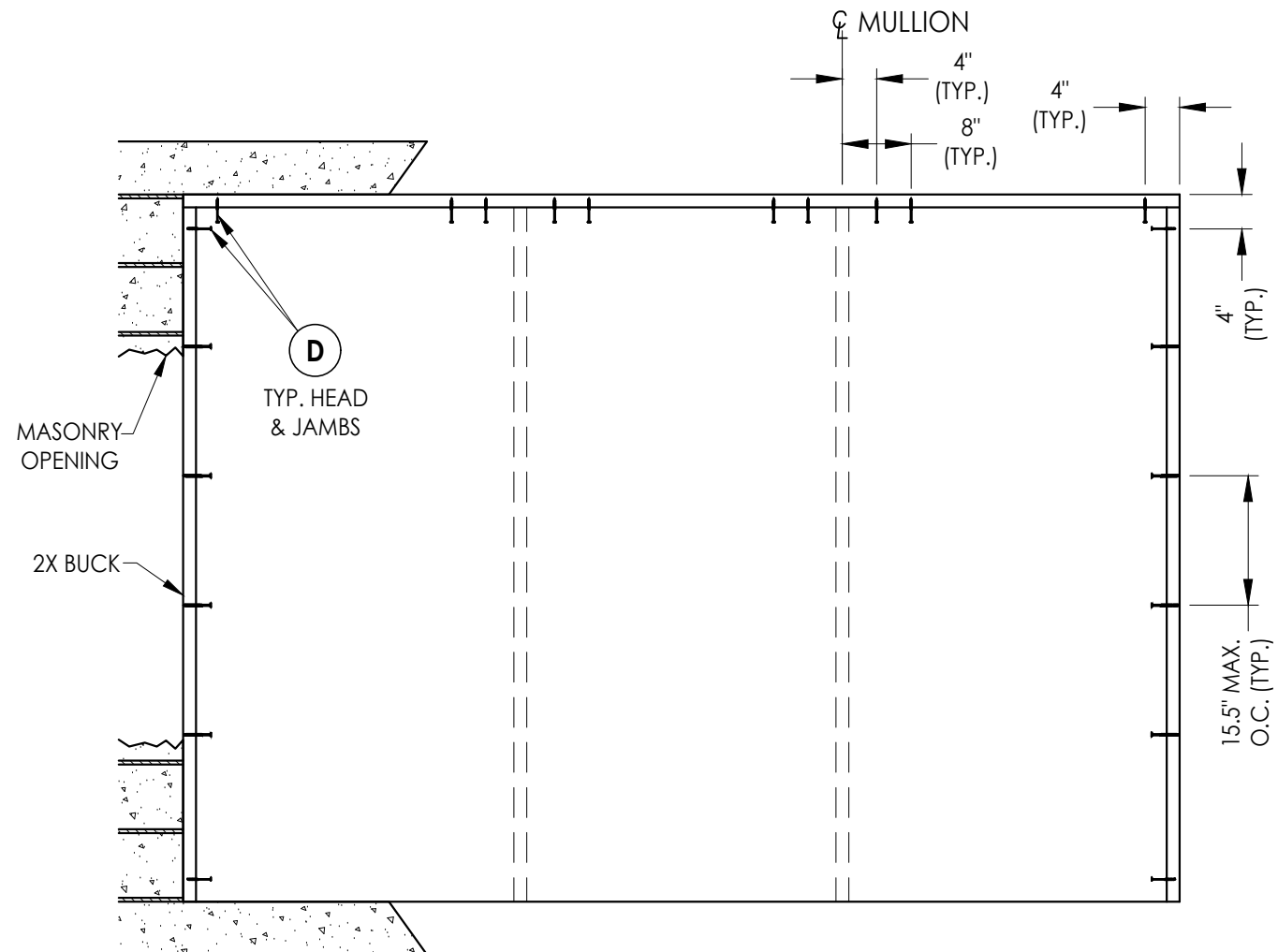
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PRODUCT:		MASTERGRAIN FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	

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



2X BUCK ANCHORING

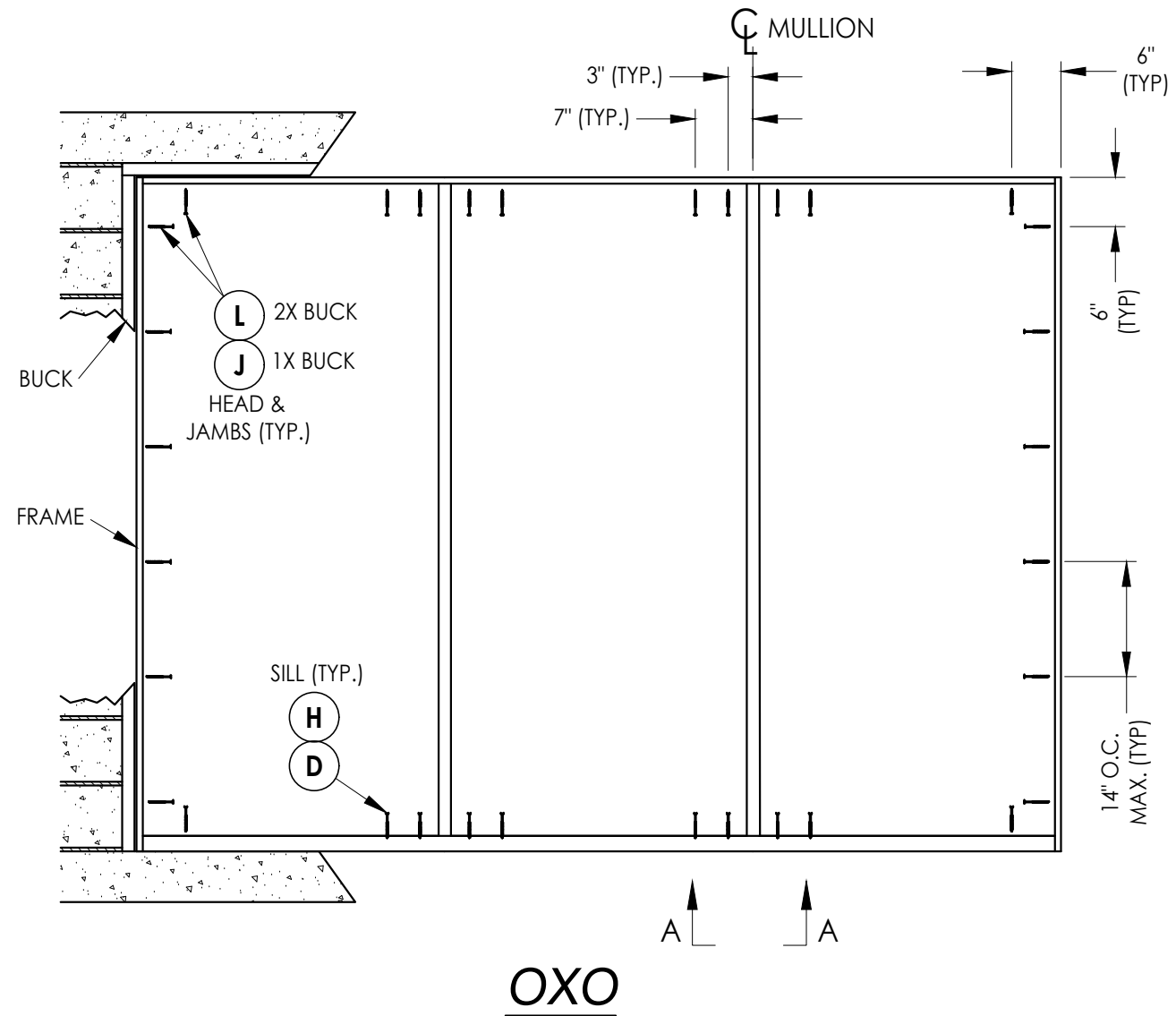
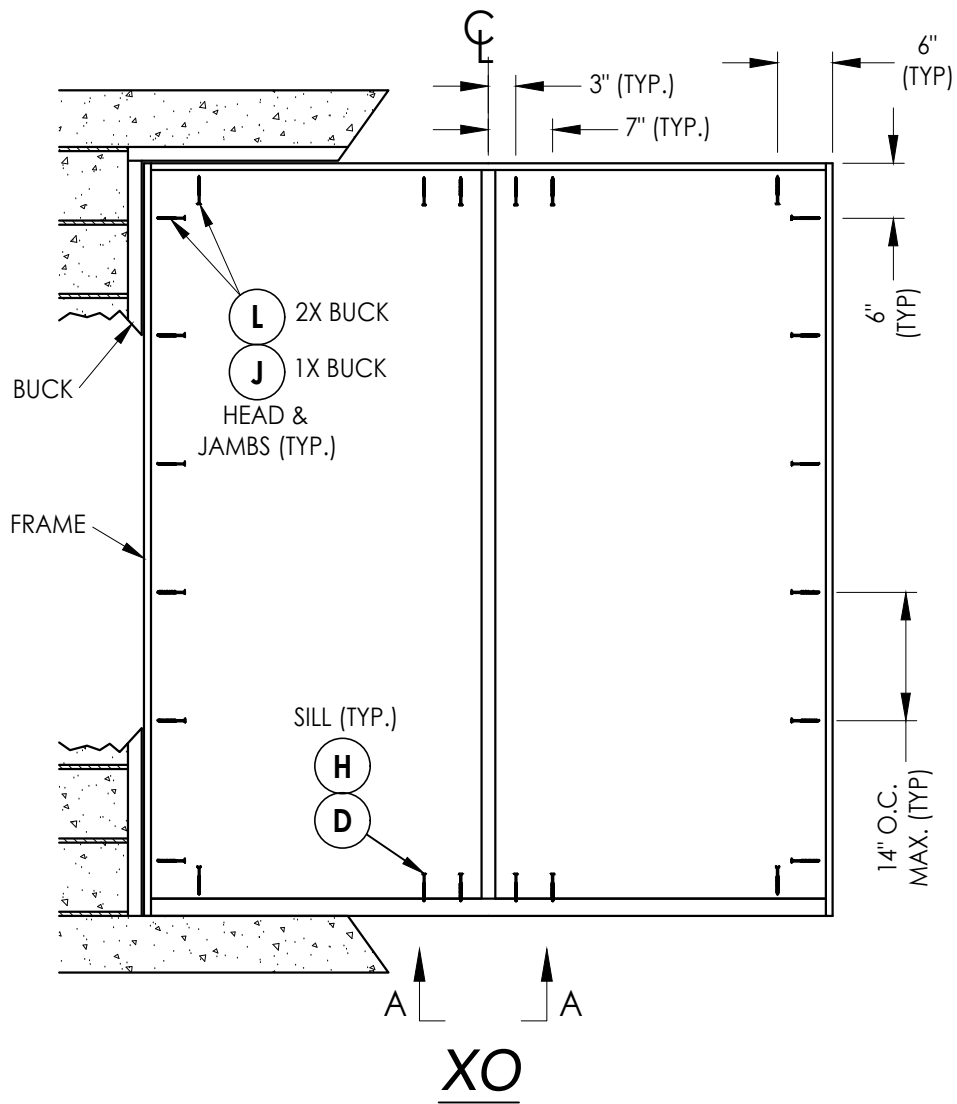
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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

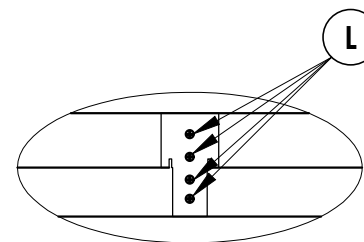
RW

BUILDING CODE
P.O. Box 237
Phone No.:
FBPE Register

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



FRAME ANCHORING



SECTION A-A
(TYP. AT HEAD AND SILL)

NOTE:

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

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: 02/09/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: *LFS*

DRAWING NO.:

FL-21852.12

SHEET 11 OF 13

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

PRODUCT: MASTERGRAIN
FIBERGLASS DOOR

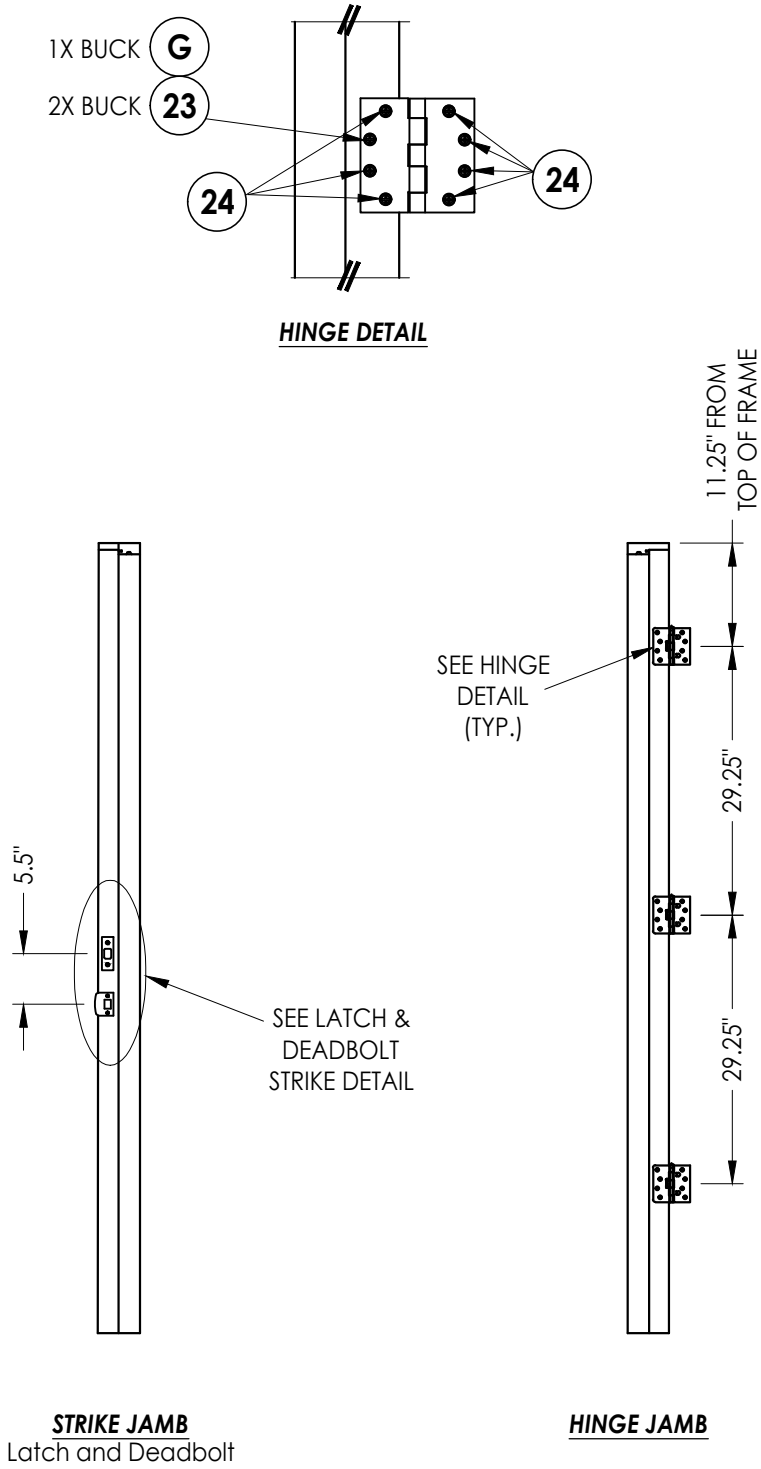
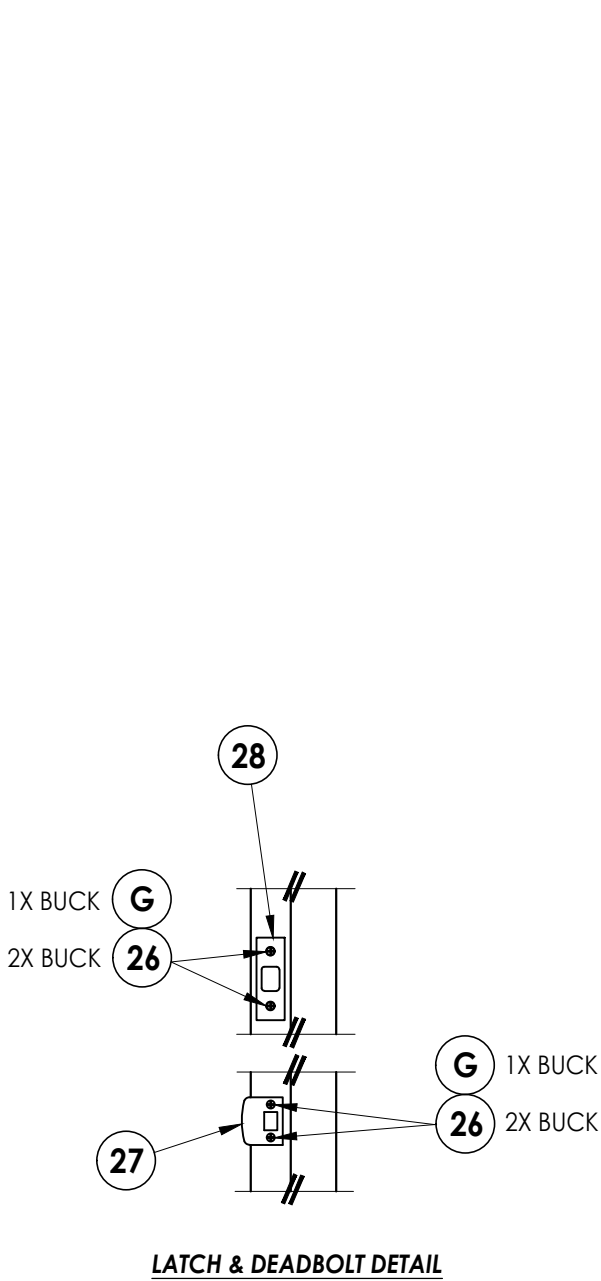
PART OR ASSEMBLY:

BUCK ANCHORING

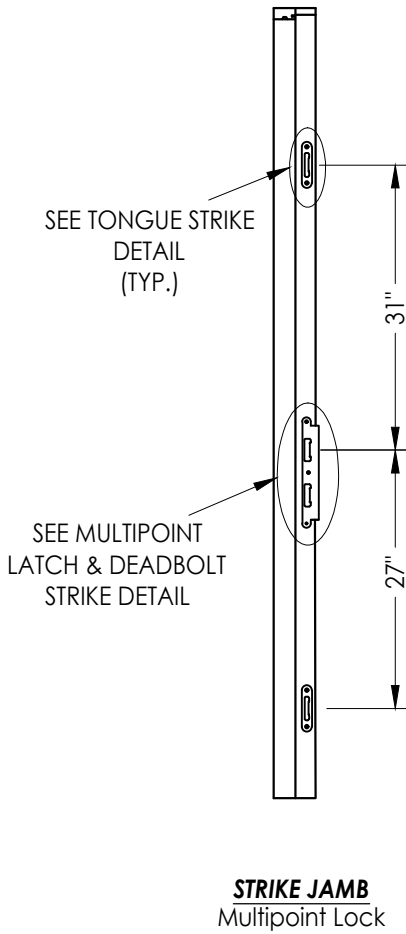
Documents Prepared By:
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R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

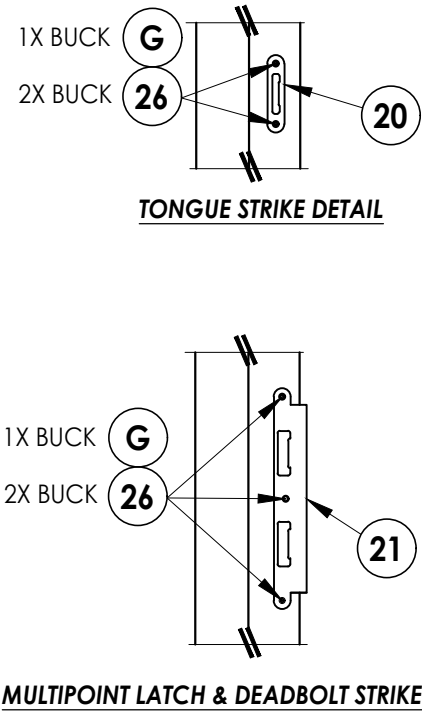
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LATCH & DEADBOLT HARDWARE DETAILS



MULTIPOINT LOCK HARDWARE DETAILS



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: MASTERGRAIN FIBERGLASS DOOR			PART OR ASSEMBLY: HARDWARE DETAILS		
			LFS	BY	REVISIONS
			FBC	JK	
3	7/01/23	UPDATE TO 8TH ED. (2023)	FBC		
2	7/08/20	UPDATE TO 7TH ED. (2020)	FBC		
1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC		
	NO.	DATE			
DATE: 02/09/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-21852.12					
SHEET 12 OF 13					

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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
H	1/4" X 2-1/4" PFH DeWALT OR 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
3	MULLION	ALUM/COMP
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
13	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
14	OUTSWING BUMP THRESHOLD	ALUM/COMP
15	INSWING THRESHOLD (w/ SIDELITE ADAPTER)	ALUM/COMP
16	OUTSWING THRESHOLD (w/ SIDELITE ADAPTER)	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	#10 X 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	-
50	SIDELITE PANEL	-

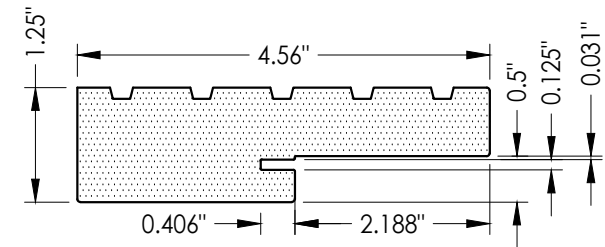
CONCRETE ANCHOR NOTES:

- 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:

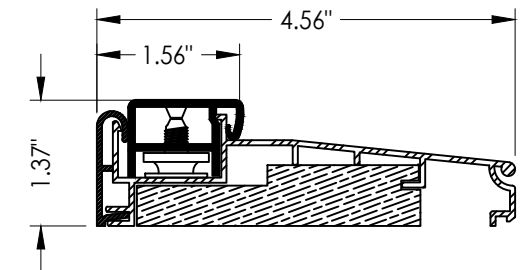
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

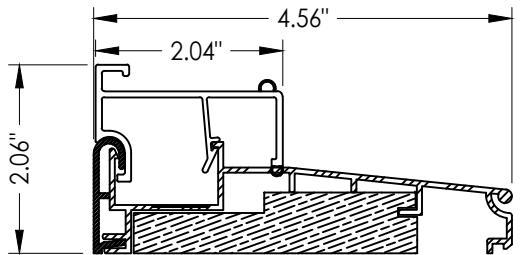
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



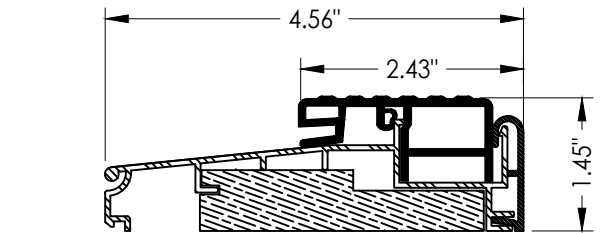
1 COMPOSITE JAMB
WORLDWIDE



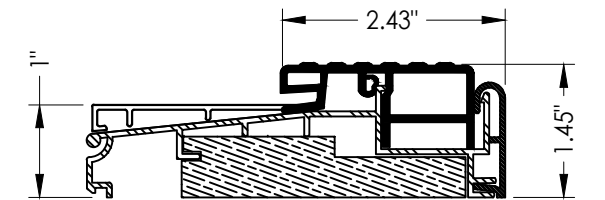
13 INSWING THRESHOLD
WORLDWIDE



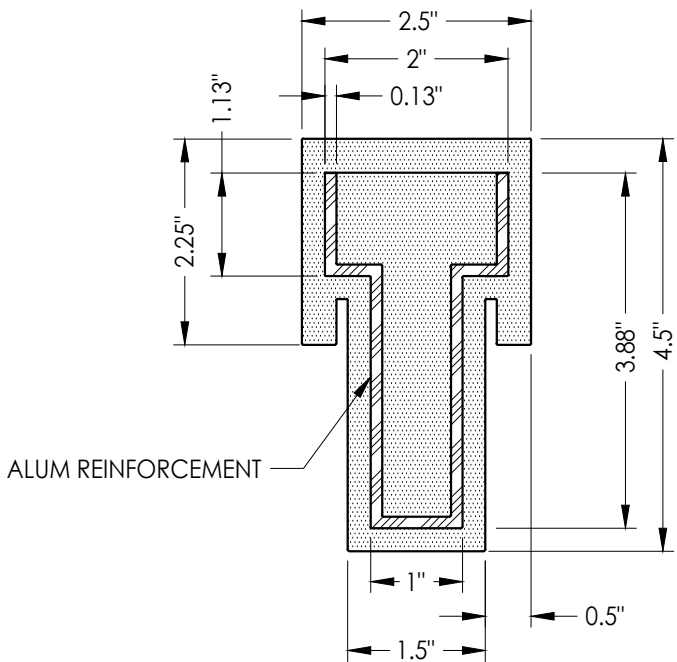
15 INSWING THRESHOLD w/ SIDELITE ADAPTER
WORLDWIDE



14 OUTSWING THRESHOLD
WORLDWIDE



16 OUTSWING THRESHOLD w/ SIDELITE ADAPTER
WORLDWIDE



3 COMPOSITE MULLION
WORLDWIDE

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PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
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SHEET 13 OF 13