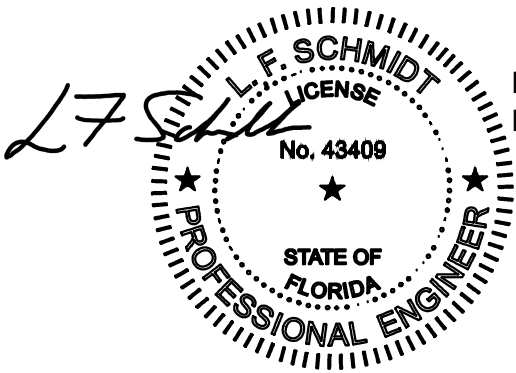




Digitally signed by Lyndon F Schmidt
Date: 2023.08.21 09:15:36 -04'00'

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

COMPOSITE EDGE
GLAZED FIBERGLASS SINGLE DOOR
INSWING/OUTSWING
"NON-IMPACT"

GENERAL NOTES

1. 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).
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.
6. Benchmark Door panels require the use of "J" part numbers and must be stained or painted within six months of installation.

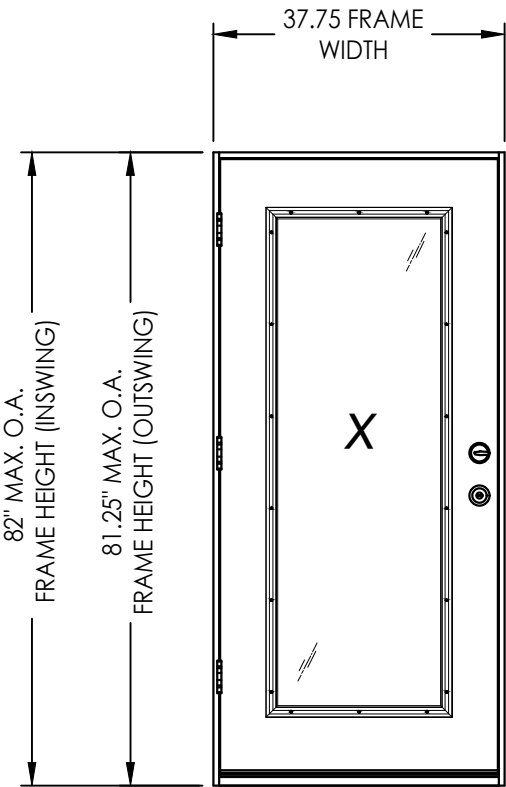


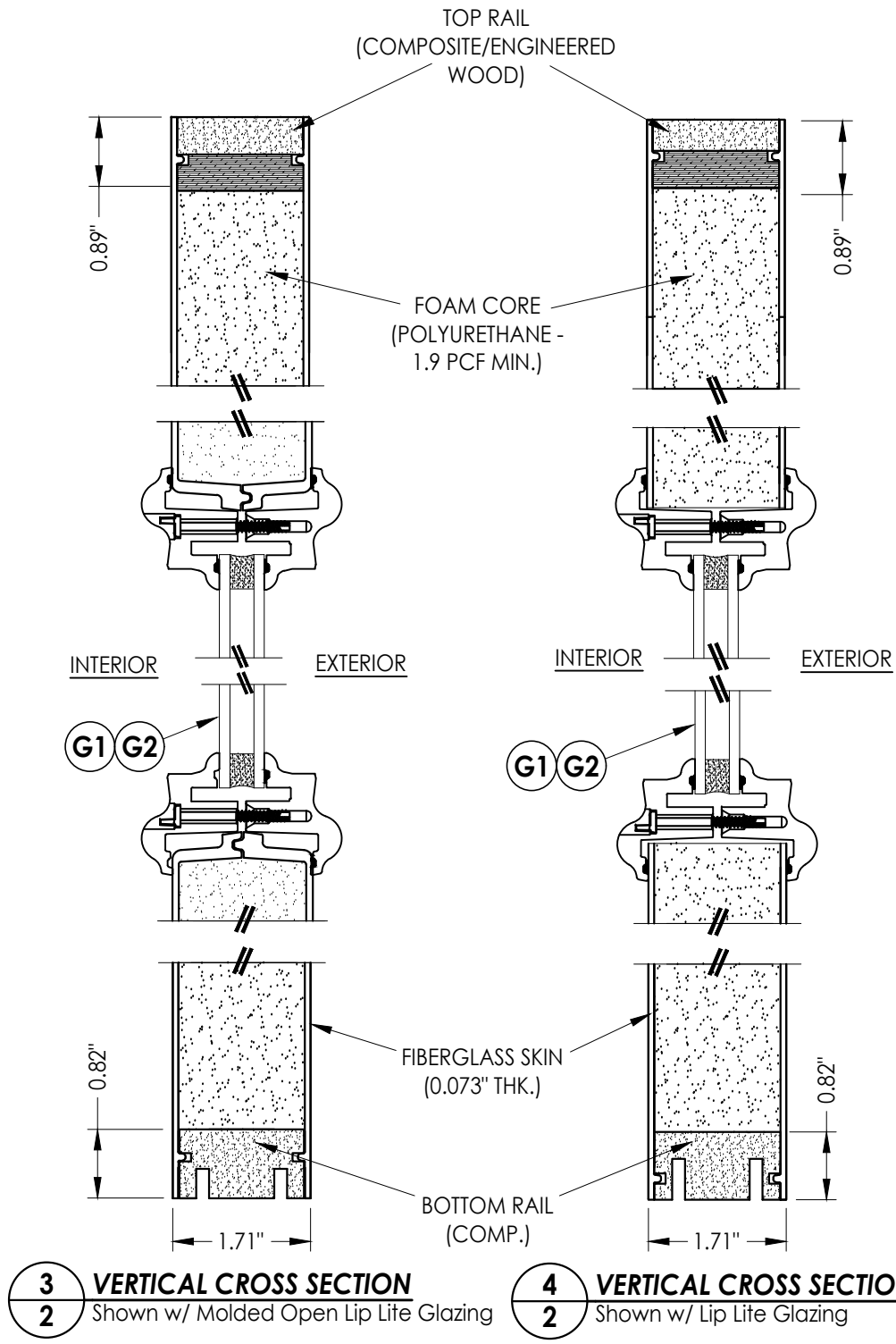
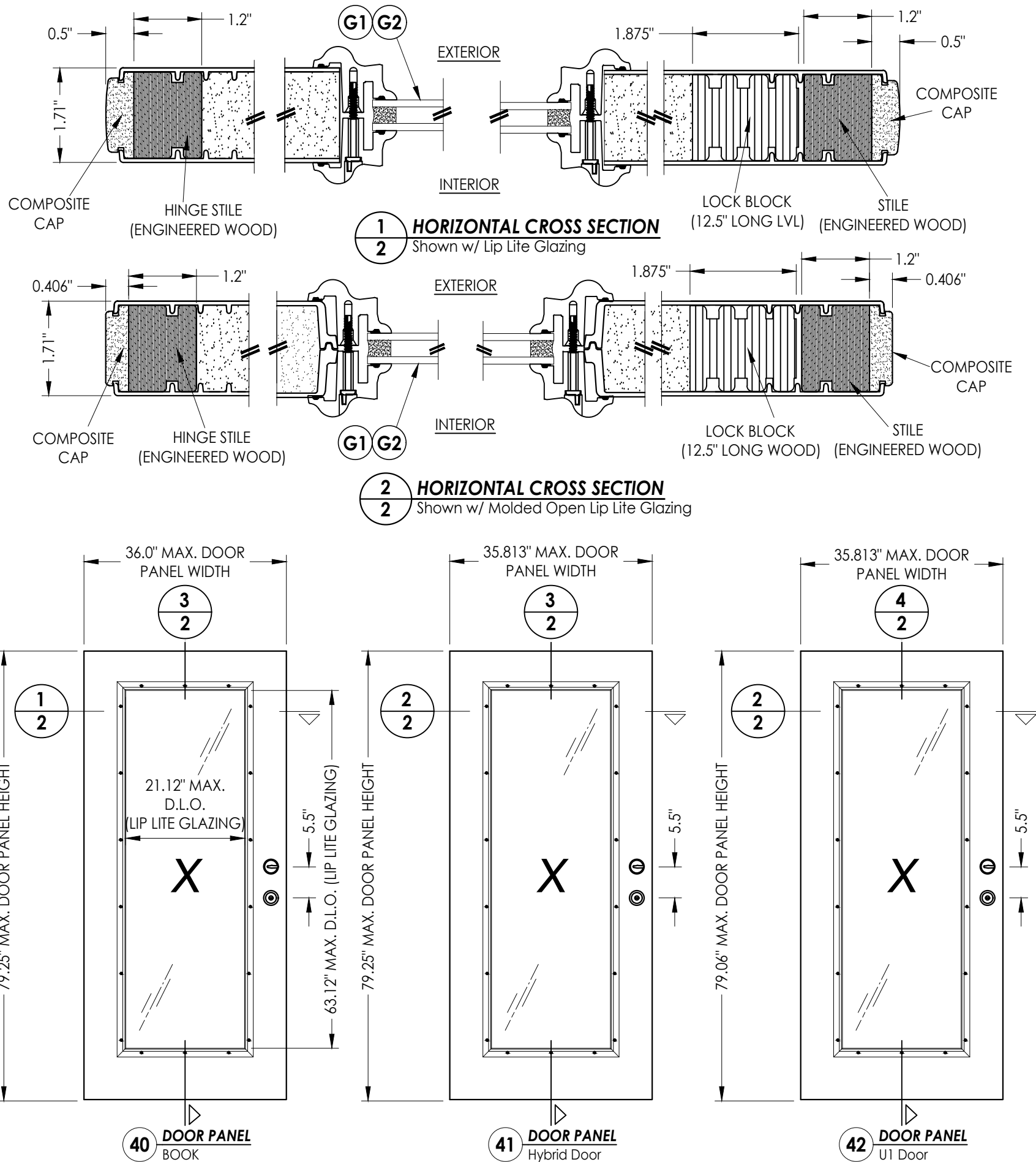
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Door Panel Details
4	Elevations
5	Horizontal & Vertical Cross Sections (2X Buck)
6	Horizontal & Vertical Cross Sections (1X Buck)
7	Horizontal & Vertical Cross Sections (Direct to Masonry)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

CONFIGURATION	LITE INSERT	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Lip Lite	+47.0	-47.0	+47.0	-47.0
X	Flush Glazed	+47.0	-47.0	+47.0	-47.0
X	3/4 Flush Glazed	+47.0	-47.0	+47.0	-47.0

See Sheet 4 for Hardware Specifications

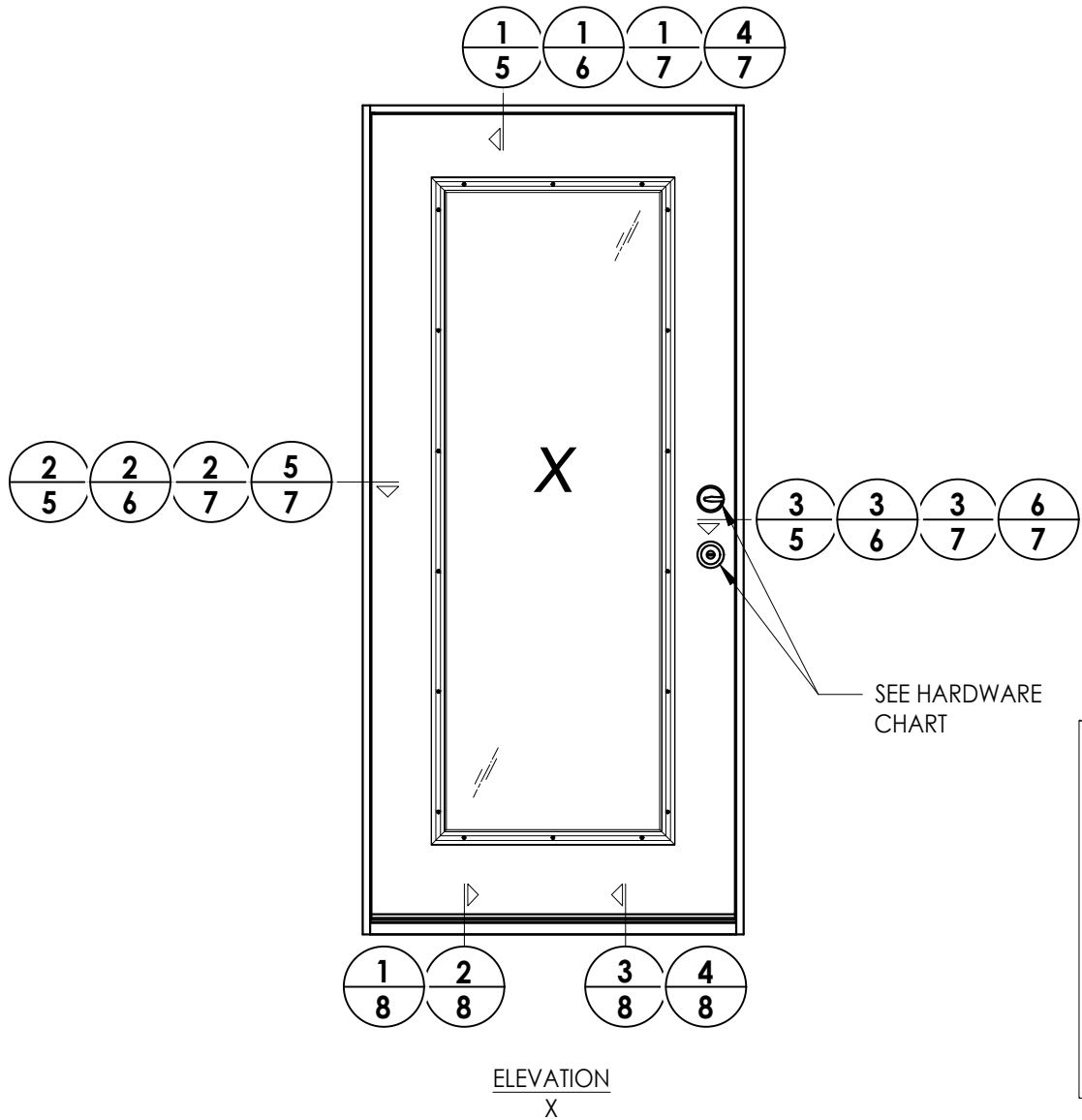
PRODUCT:		THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	

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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: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: DOOR PANEL DETAILS	
		LFS	BY
		FBC	PO
2	8/21/23	UPDATE TO 8TH ED. (2023)	DATE
1	7/16/20	UPDATE TO 7th ED (2020)	NO.
REVISIONS			
DATE: 03/07/20			
SCALE: N.T.S.			
DWG. BY: TJ			
CHK. BY: LFS			
DRAWING NO.: FL-21135.14			
SHEET 2 OF 13			

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HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)



Benchmark Door Panel Options

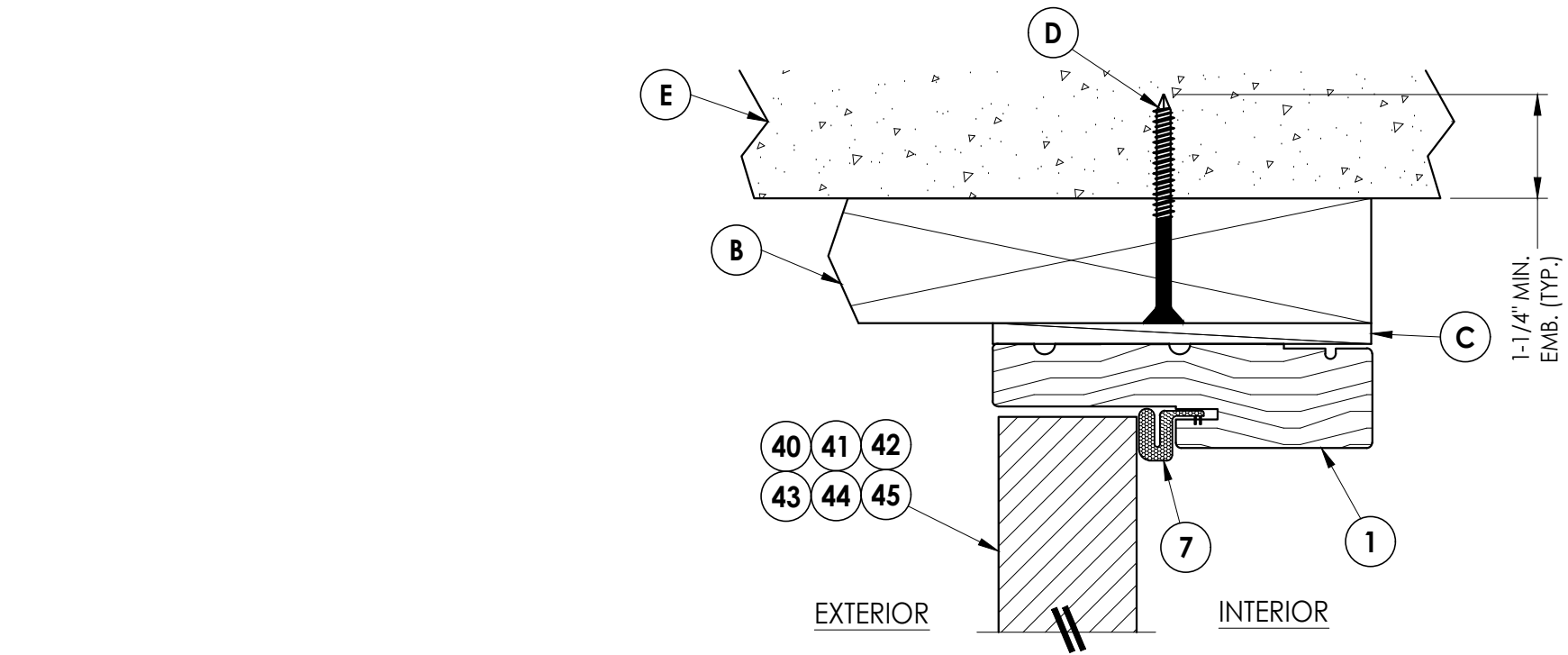
Products approved include all embossed and recessed panel doors.
Similar glazed panel configurations are allowed.
Panels shown are for illustration and are representative only.

Documents Prepared By:
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P.E. No. 43409

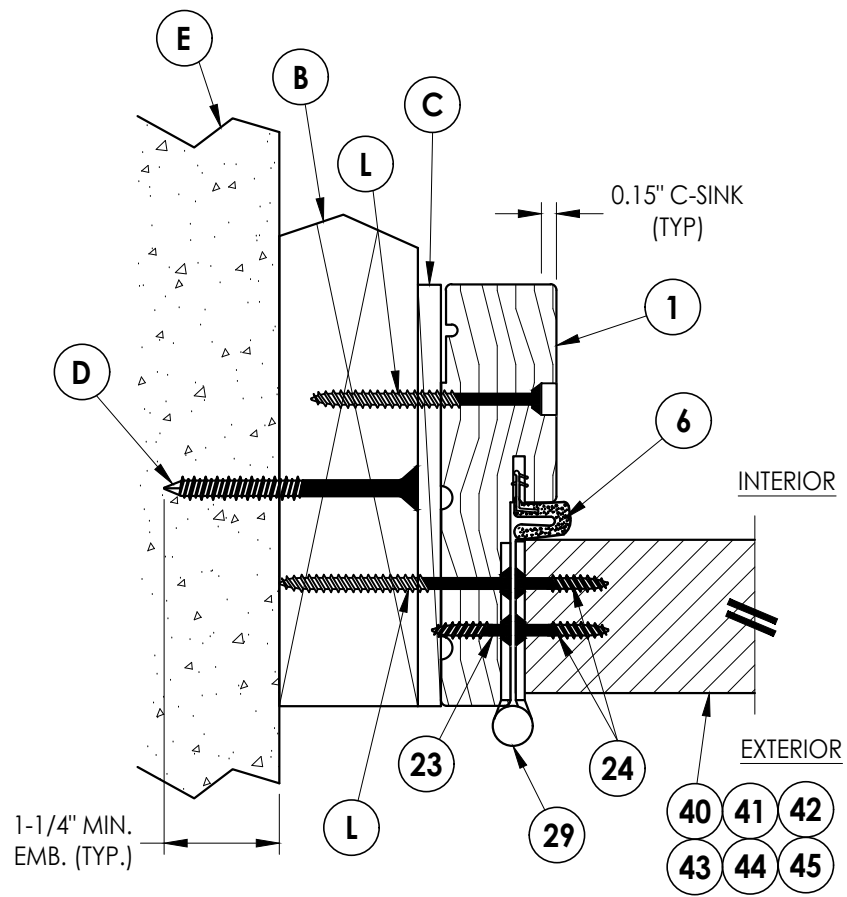
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P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: ELEVATIONS	
		LFS	PO
		BY	
		REVISIONS	
2	8/21/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/16/20	UPDATE TO 7th ED (2020)	FBC
	NO.	DATE	
DATE: 03/07/20			
SCALE: N.T.S.			
DWG. BY: TJ			
CHK. BY: LFS			
DRAWING NO.: FL-21135.14			
SHEET 4 OF 13			

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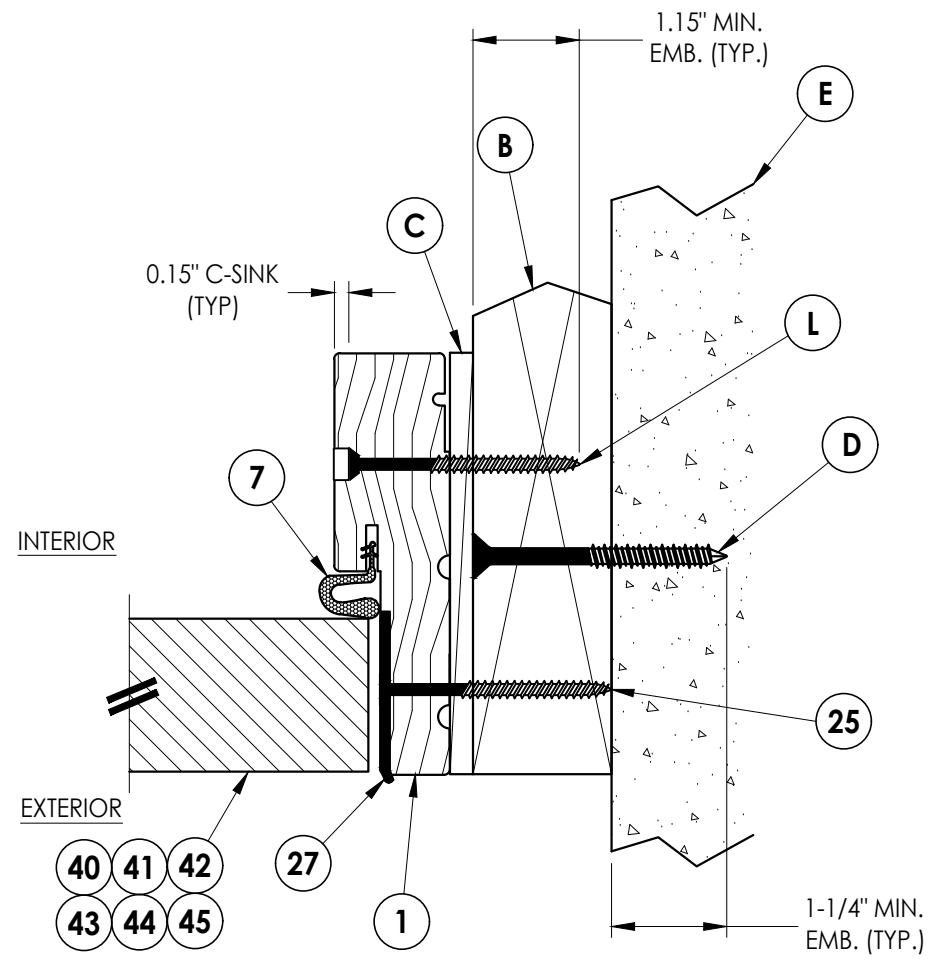


1 **VERTICAL CROSS SECTION**
5 Shown w/ 2X Buck
 Outswing shown (Inswing similar)



2 HORIZONTAL CROSS SECTION

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

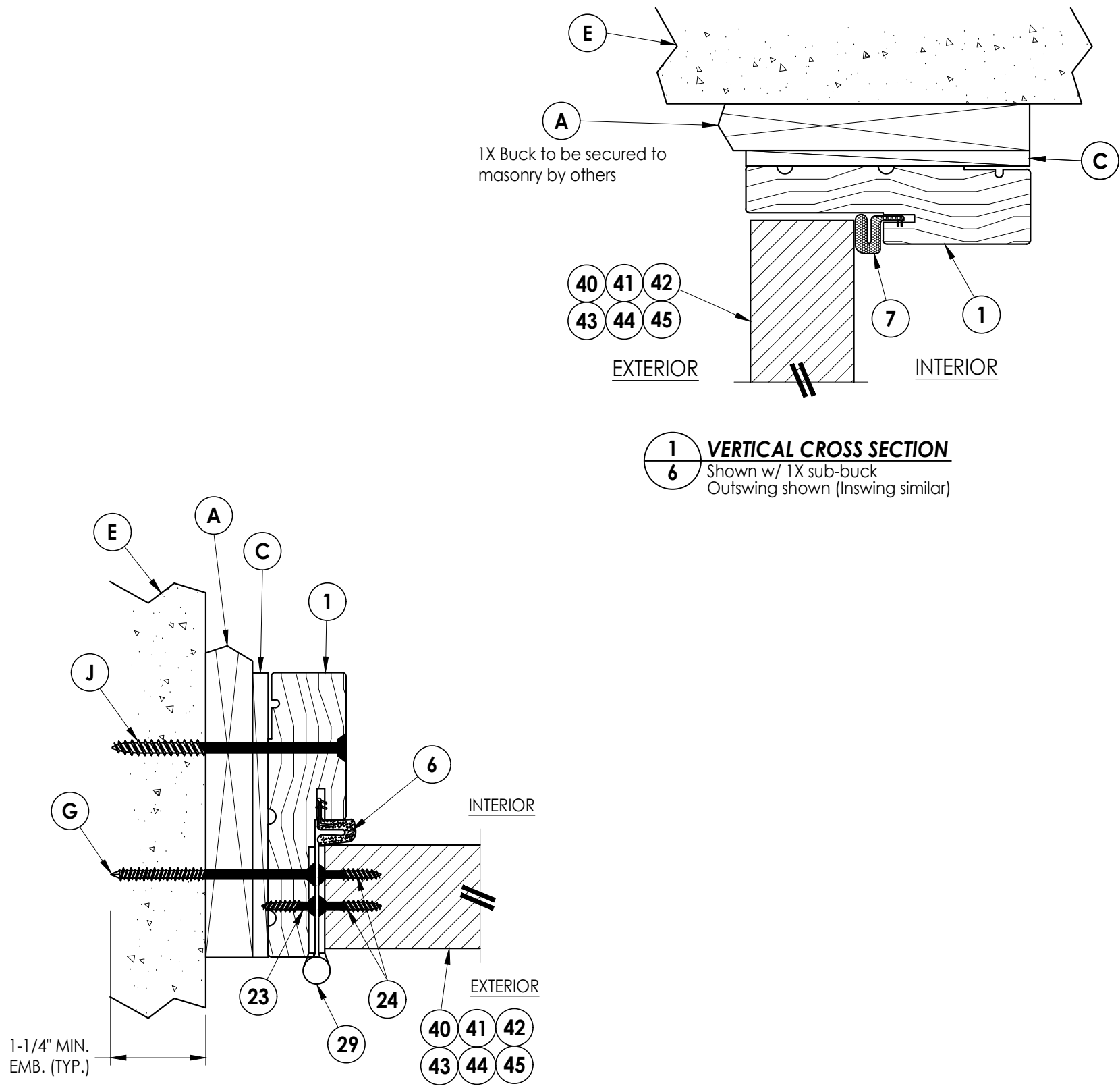


3 **HORIZONTAL CROSS SECTION**

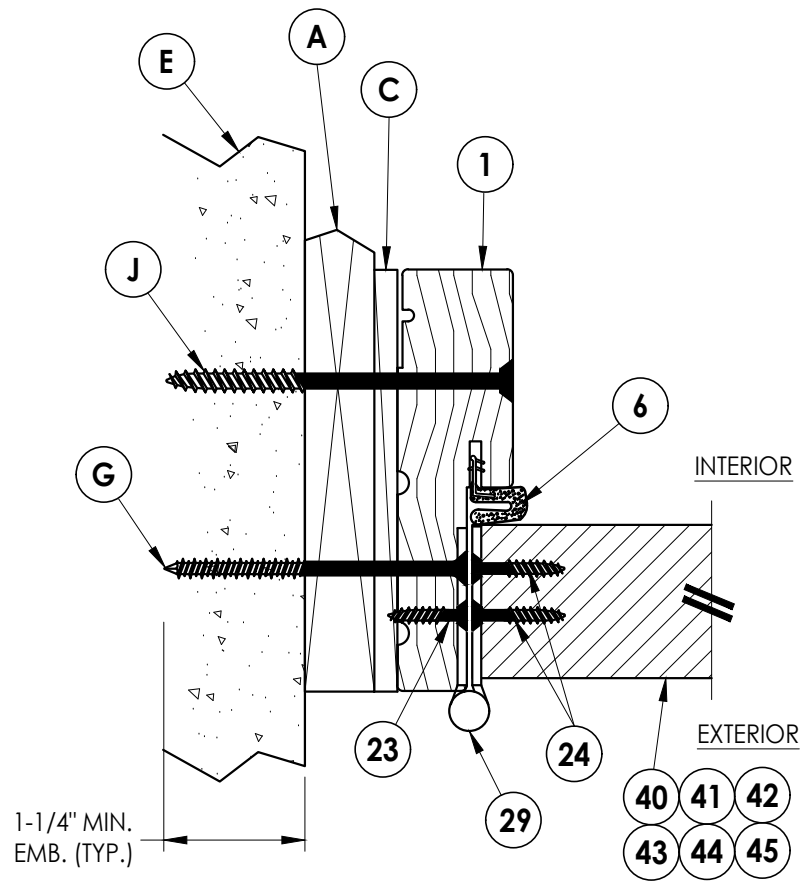
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)

DATE: 03/07/20		PRODUCT: THERMA-TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DWG. BY: TJ		2 8/21/23 UPDATE TO 8TH ED. (2023) FBC LFS			
CHK. BY: LFS		1 7/16/20 UPDATE TO 7th ED (2020) FBC PO			
DRAWING NO.: FL-21135.14		NO. DATE BY			
SHEET 5 OF 13		REVISIONS			

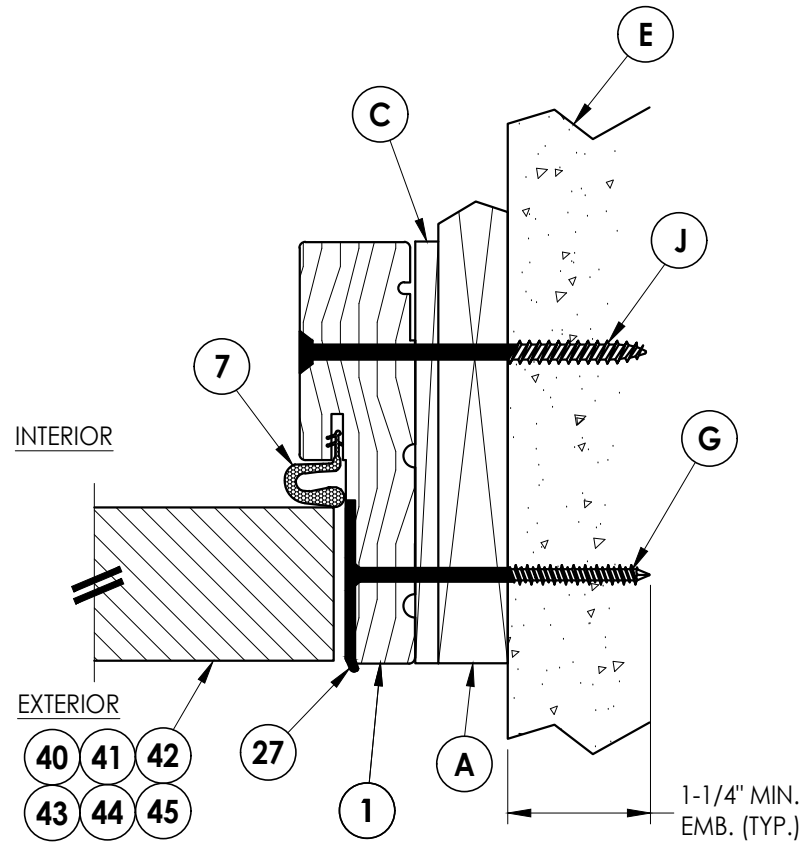
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1 VERTICAL CROSS SECTION
6 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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



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

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

RW

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/16/20	UPDATE TO 7th ED (2020) FBC PO
		BY

DATE: 03/07/20

SCALE: N.T.S.

DWG. BY: TJ

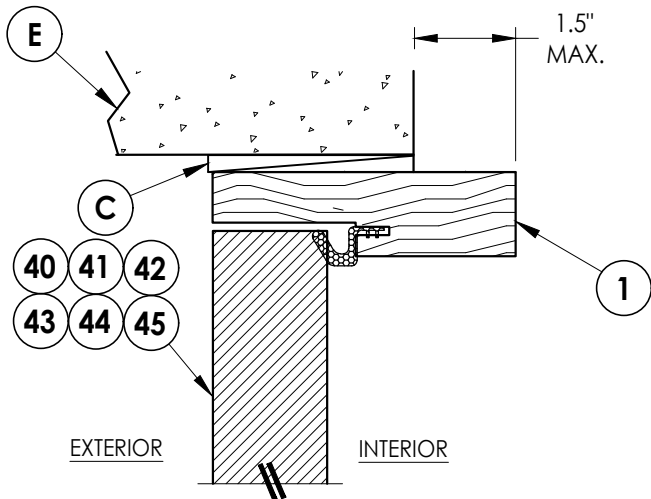
CHK. BY: LFS

DRAWING NO.:

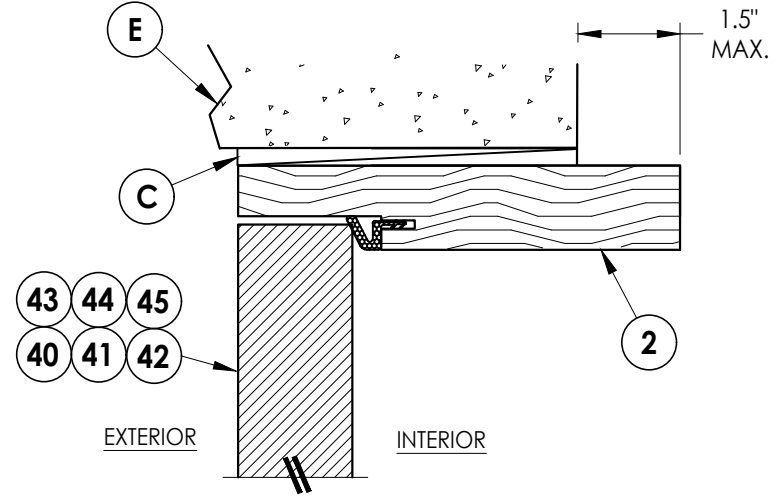
FL-21135.14

SHEET 6 OF 13

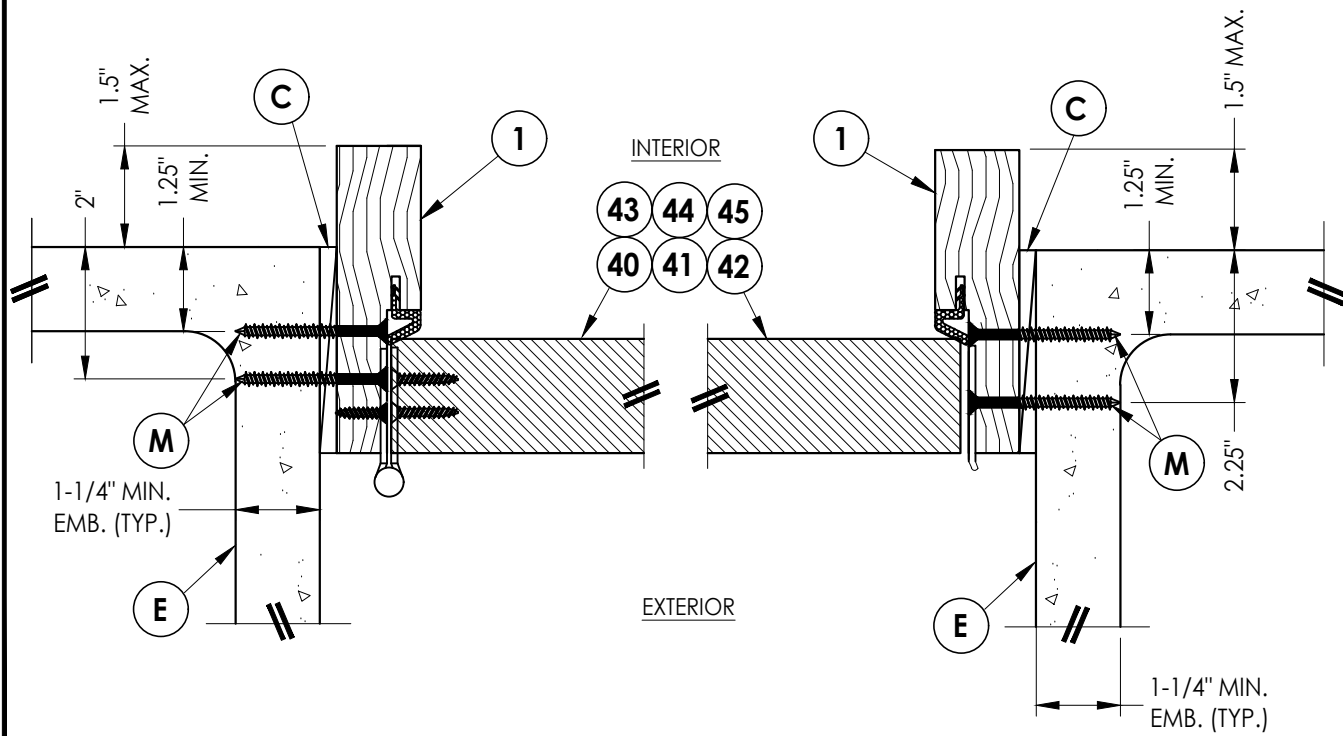
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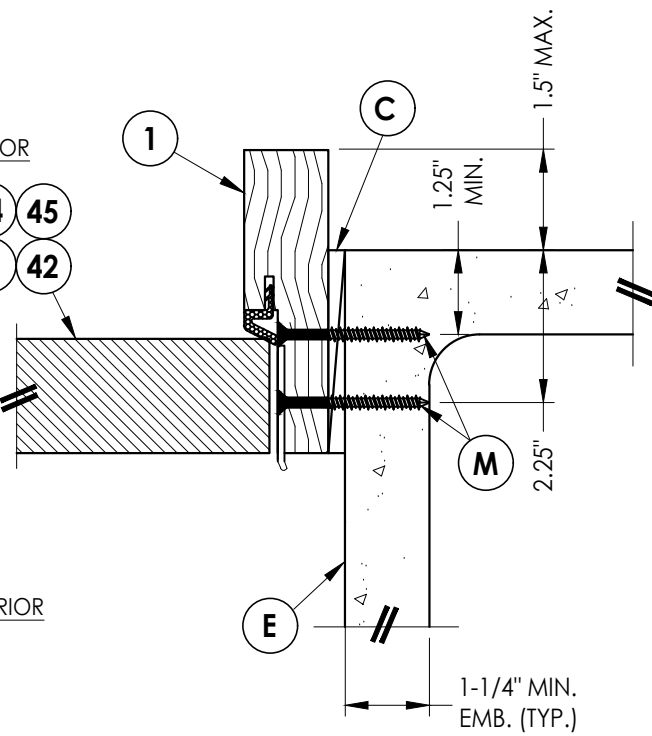
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7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



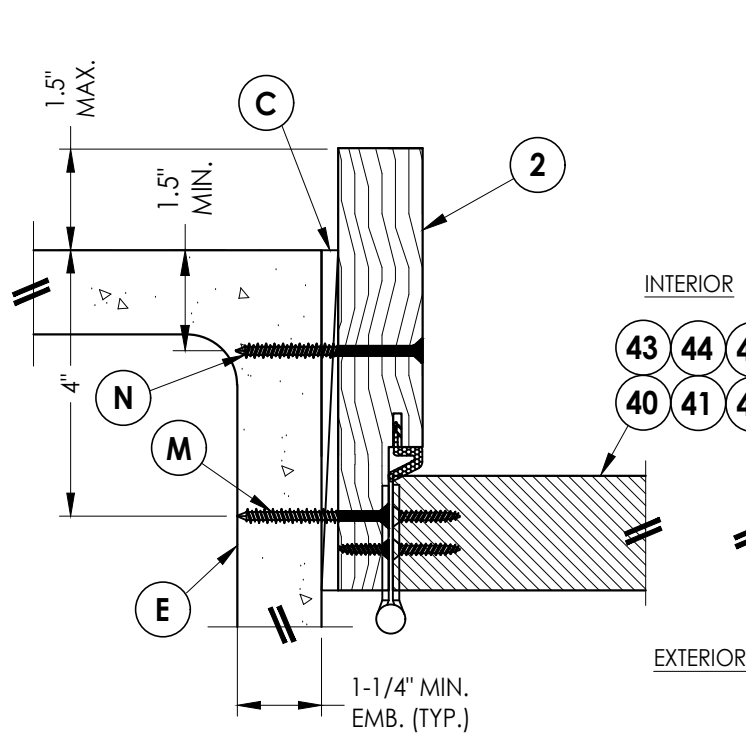
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7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



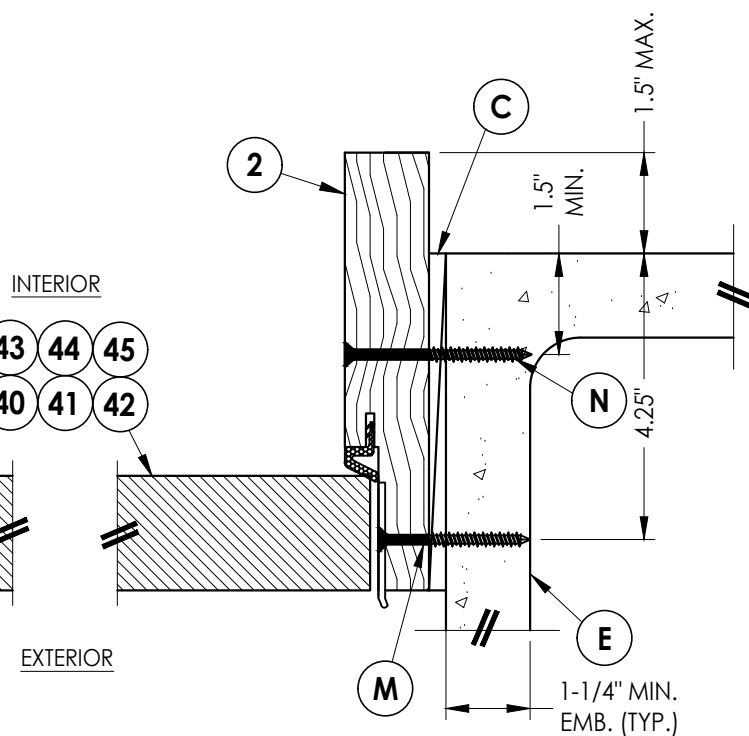
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7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



3
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



5
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



6
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

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: **THERMA-TRU
FIBERGLASS DOOR**
PART OR ASSEMBLY:
**HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)**

NO.	DATE	REVISIONS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC
1	7/16/20	UPDATE TO 7th ED (2020) FBC

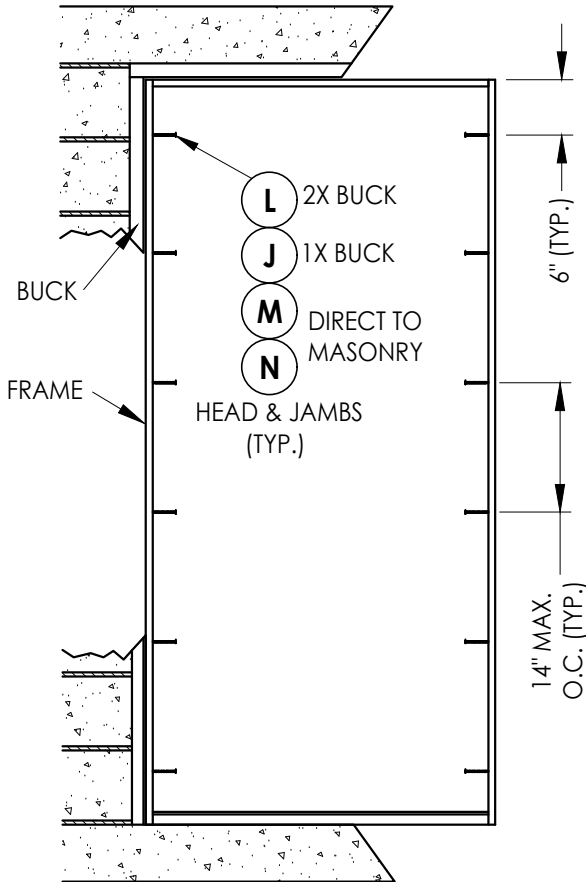
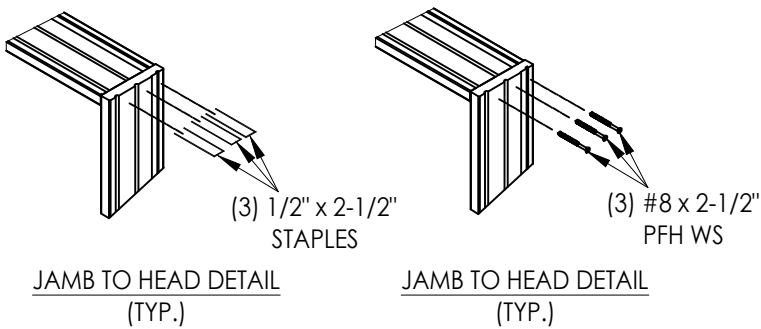
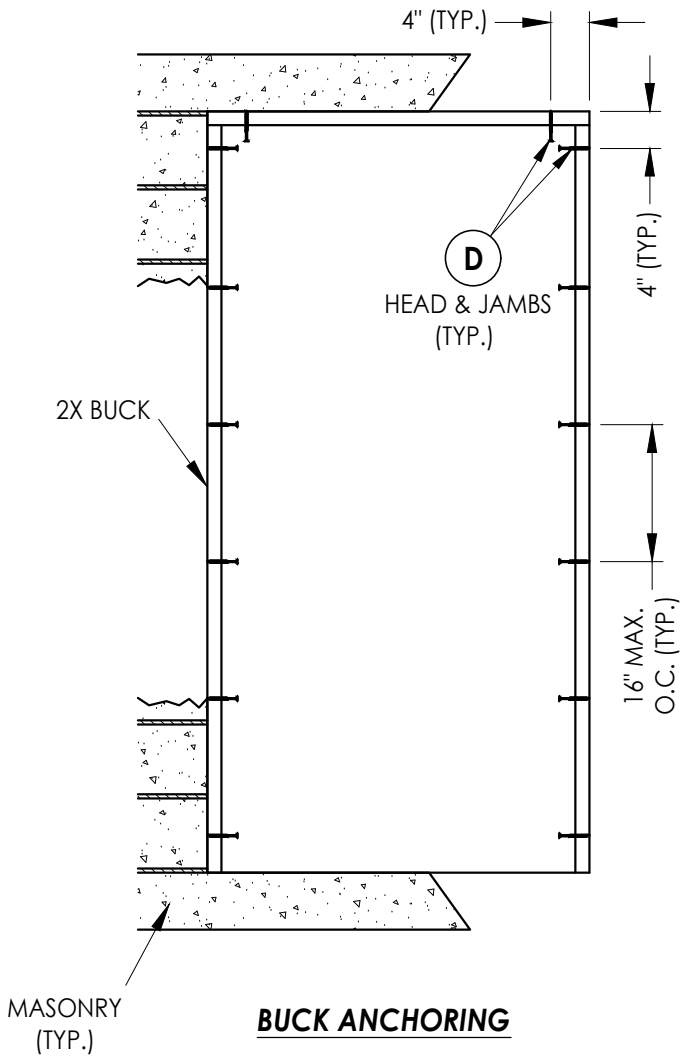
DATE: 03/07/20
SCALE: N.T.S.
DWG. BY: TJ
CHK. BY: LFS
DRAWING NO.: FL-21135.14
SHEET 7 OF 13

1. Sill Item #'s 32, 38, 39, 50, 51, 52, 53, 54 & 55 are attached to jambs w/ (3) #8 X 2-1/2" pph screws or (3) 2.5" staples at each end.
2. Sill Item #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



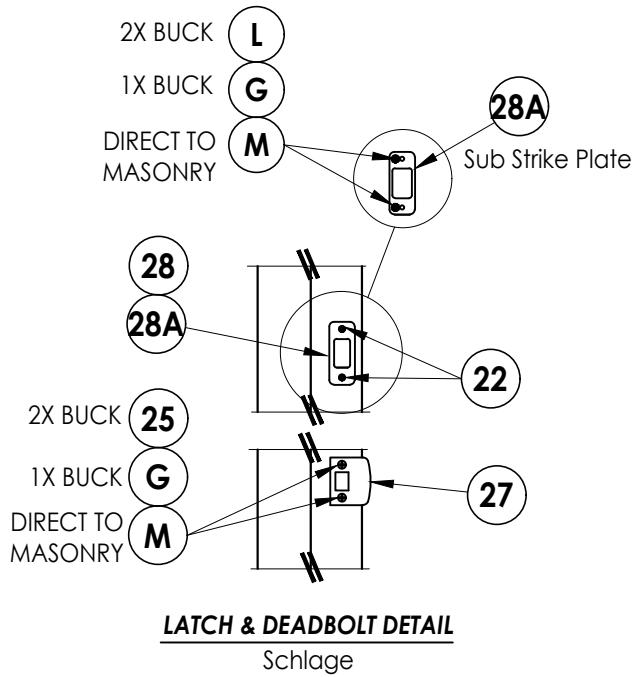
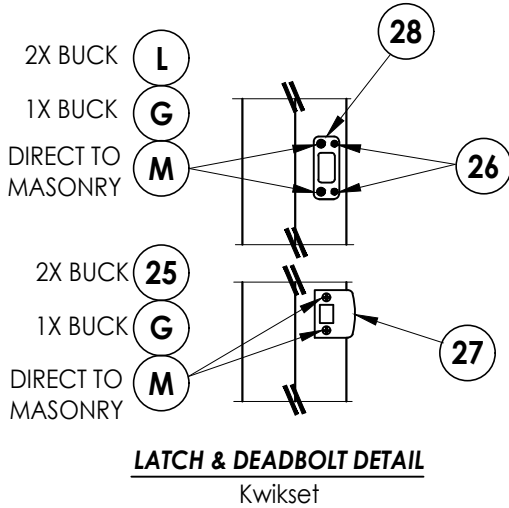
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SCALE: N.T.S.		THERMA-TRU		Lyndon F. Schmidt	
DWG. BY: TJ		FIBERGLASS DOOR		P.E. No. 43409	
CHK. BY: LFS		PART OR ASSEMBLY:		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-21135.14		VERTICAL CROSS			
SHEET 8 OF 13		SECTIONS (THRESHOLDS)			
NO.		DATE			
2		8/21/23		UPDATE TO 8TH ED. (2023) FBC LFS	
1		7/16/20		UPDATE TO 7th ED (2020) FBC PO	
NO.		DATE		BY	
				REVISIONS	

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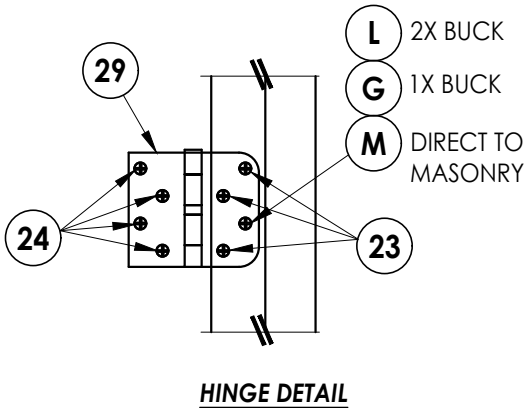
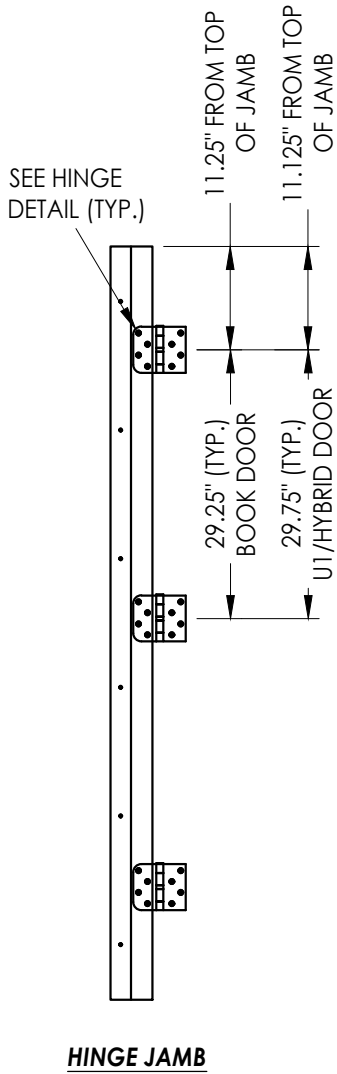
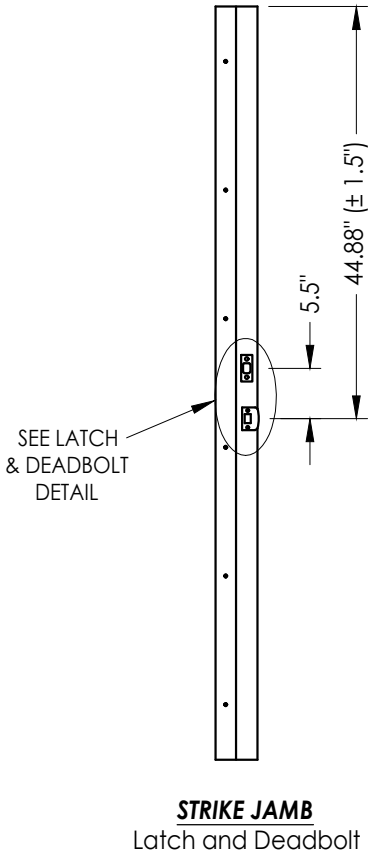


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: BUCK AND FRAME ANCHORING		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
2	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
1	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO			
NO.	DATE			BY			
				REVISIONS			
DATE: 03/07/20							
SCALE: N.T.S.							
DWG. BY: TJ							
CHK. BY: LFS							
DRAWING NO.: FL-21135.14							
SHEET 9 OF 13							

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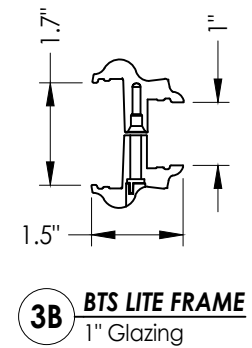
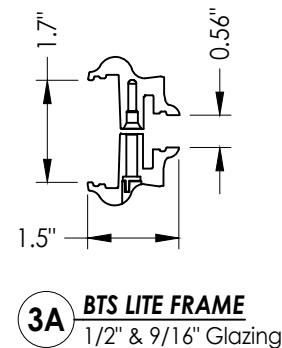
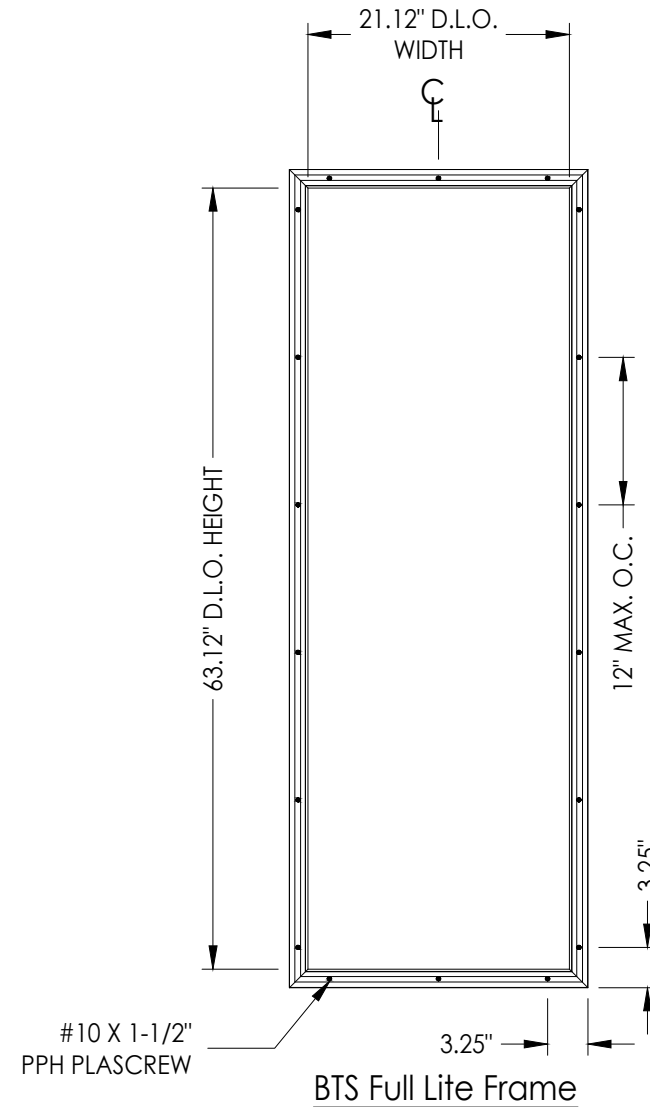
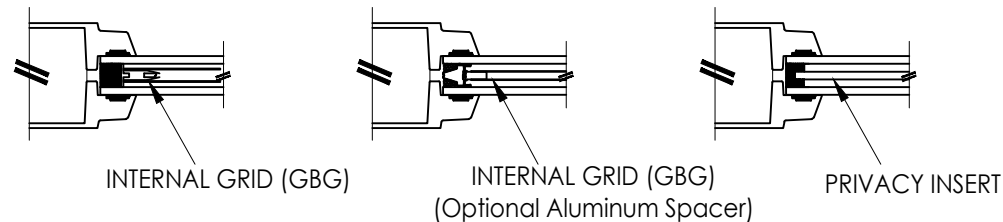
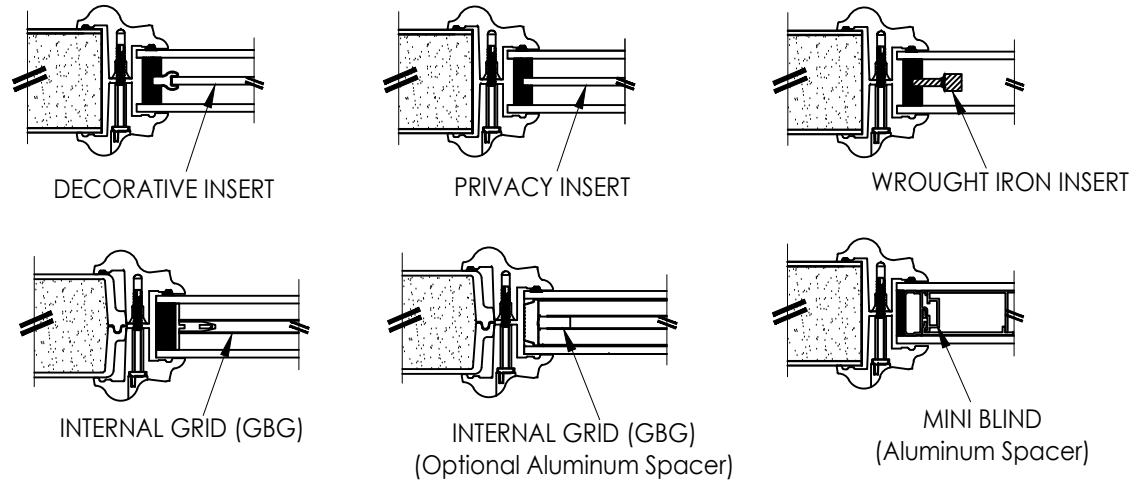
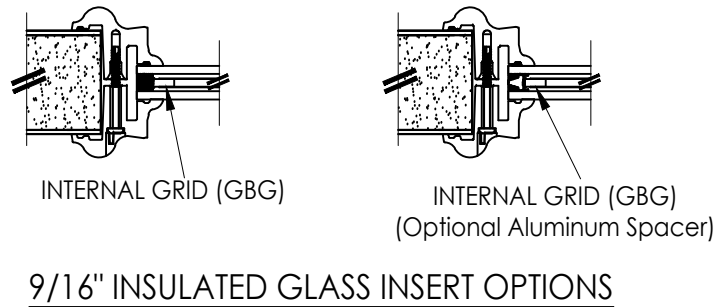
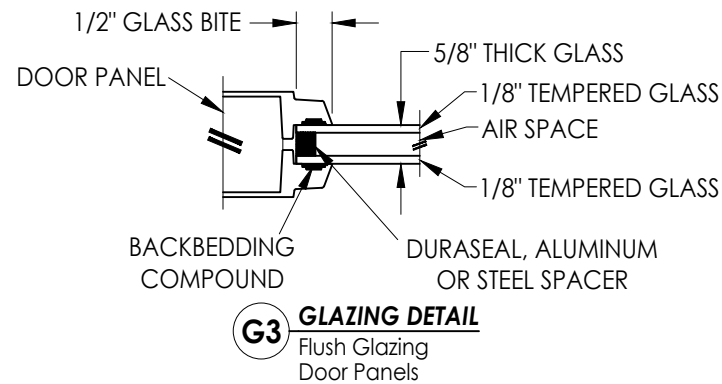
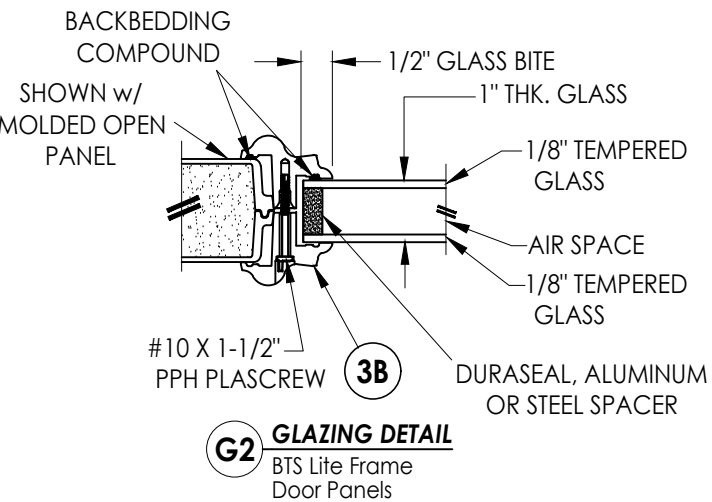
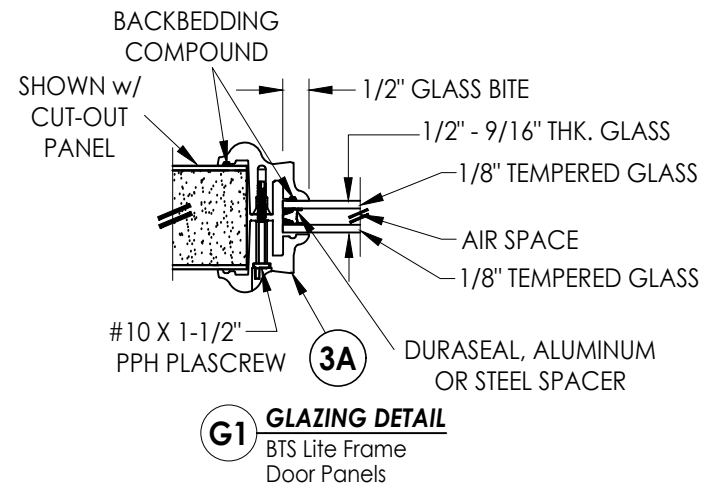


LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)



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: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HARDWARE DETAILS					
				LFS			
				FBC			
2	8/21/23	UPDATE TO 8TH ED. (2023)					
1	7/16/20	UPDATE TO 7th ED (2020)					
	NO.	DATE					
				REVISIONS			
DATE: 03/07/20							
SCALE: N.T.S.							
DWG. BY: TJ							
CHK. BY: LFS							
DRAWING NO.: FL-21135.14							
SHEET 10 OF 13							

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

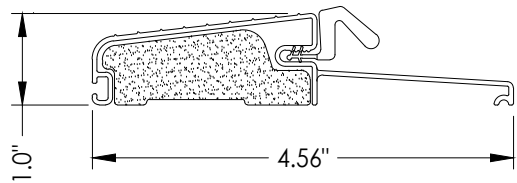
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

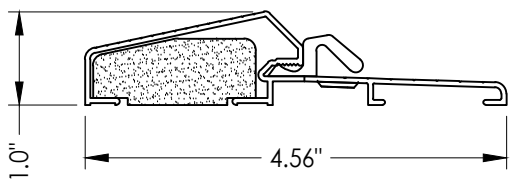
NO.	DATE	REVISIONS		
		DATE	BY	PO
2	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
1	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO

DATE: 03/07/20
SCALE: N.T.S.
DWG. BY: TJ
CHK. BY: LFS
DRAWING NO.: FL-21135.14
SHEET 11 OF 13

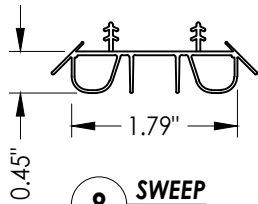
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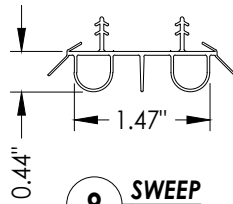
16 **OUTSWING THRESHOLD**
Composite Sill



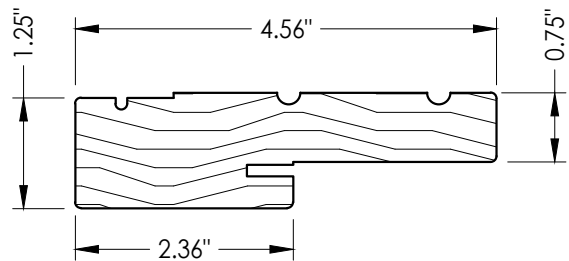
17 **OUTSWING THRESHOLD**
Composite / Aluminum Sill



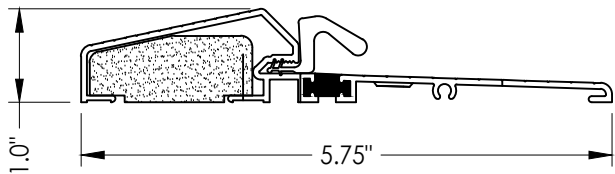
8 **SWEEP**



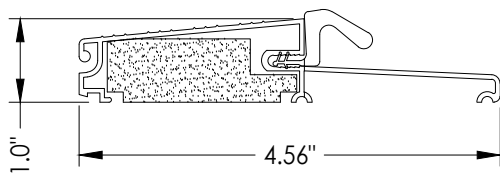
9 **SWEEP**



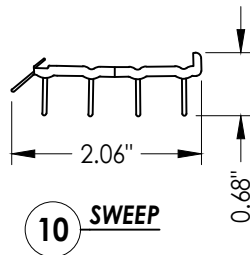
1 **WOOD JAMB**



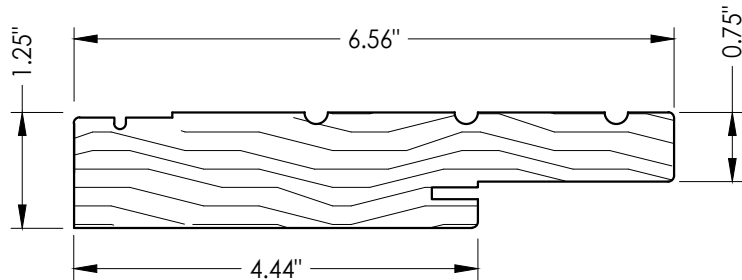
18 **OUTSWING THRESHOLD**
Composite / Aluminum Sill
(Thermal Break)



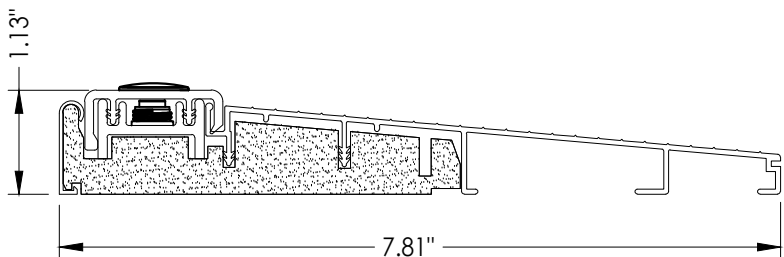
19 **OUTSWING THRESHOLD**
Composite Sill



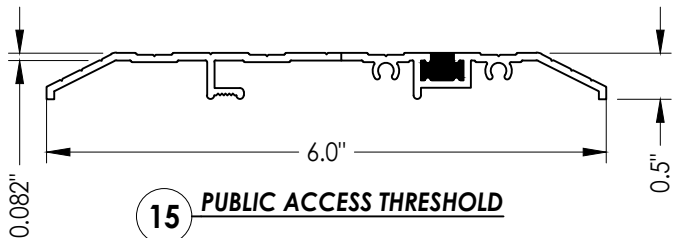
10 **SWEEP**



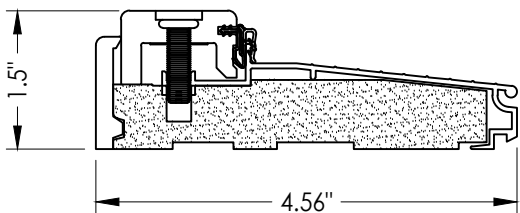
2 **WOOD JAMB**



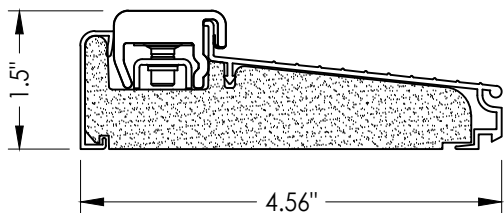
32 **INSWING THRESHOLD**
Inswing Composite Adjustable 7-3/4" Sill



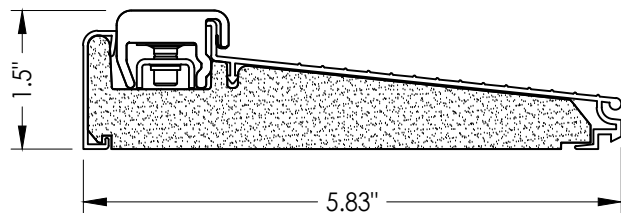
15 **PUBLIC ACCESS THRESHOLD**



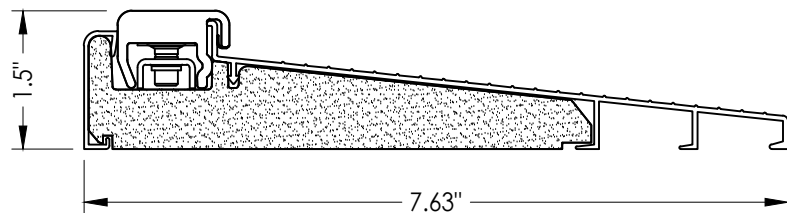
38 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill



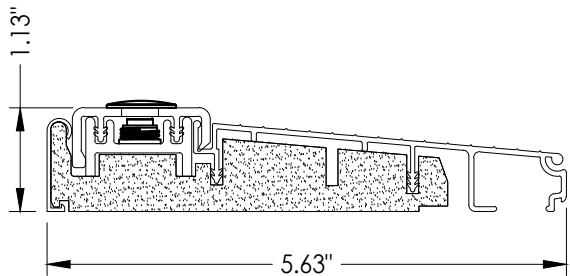
50 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
Book, Hybrid



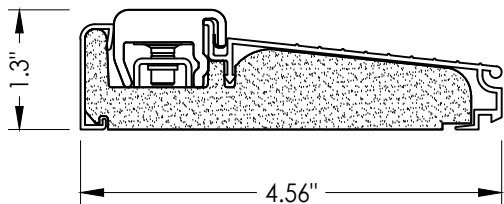
51 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
Book, Hybrid



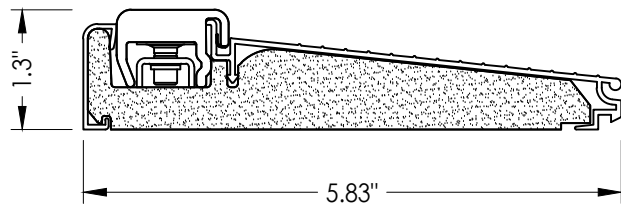
52 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
Book, Hybrid



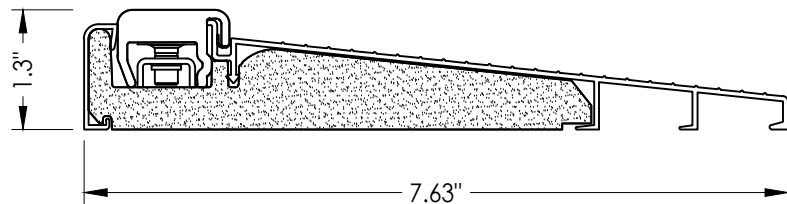
39 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill



53 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
U1



54 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
U1



55 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
U1

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:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/16/20	UPDATE TO 7th ED. (2020) FBC PO

DATE: 03/07/20

SCALE: N.T.S.

DWG. BY: TJ

CHK. BY: LFS

DRAWING NO.: FL-21135.14

SHEET 12 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.14 - 17.dwg

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			29	4" X 4" HINGE	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	38	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	39	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	40	DOOR PANEL (BOOK)	-
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	41	DOOR PANEL (HYBRID)	-
1	JAMB (FINGER JOINT PINE)	WOOD	42	DOOR PANEL (U1)	-
2	JAMB (FINGER JOINT PINE)	WOOD	43	FLUSH GLAZED DOOR PANEL (BOOK)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	44	FLUSH GLAZED DOOR PANEL (HYBRID)	-
7	WEATHERSTRIP (LONG REACH)	FOAM	45	FLUSH GLAZED DOOR PANEL (U1)	-
8	SWEEP	VINYL	50	INSWING THRESHOLD	ALUM/COMP
9	SWEEP	VINYL	51	INSWING THRESHOLD	ALUM/COMP
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	52	INSWING THRESHOLD	ALUM/COMP
15	ADA THRESHOLD	ALUM	53	INSWING THRESHOLD	ALUM/COMP
16	OUTSWING THRESHOLD	ALUM/COMP	54	INSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP	55	INSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP			
19	OUTSWING THRESHOLD	ALUM/COMP			
22	#8 x 3/4" PFH WOOD SCREW	STEEL			
23	#10 x 3/4" PFH WOOD SCREW	STEEL			
24	#10 x 1" PFH WOOD SCREW	STEEL			

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 ULTRACON [®]	1/4"	1-1/4"	1"	4"
ITW TAPCON [®]	3/16"	1-1/4"	AS SHOWN	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.

Documents Prepared By:
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P.E. No. 43409

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS

REVISIONS

NO.	DATE	DESCRIPTION
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC
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SHEET 13 OF 13

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