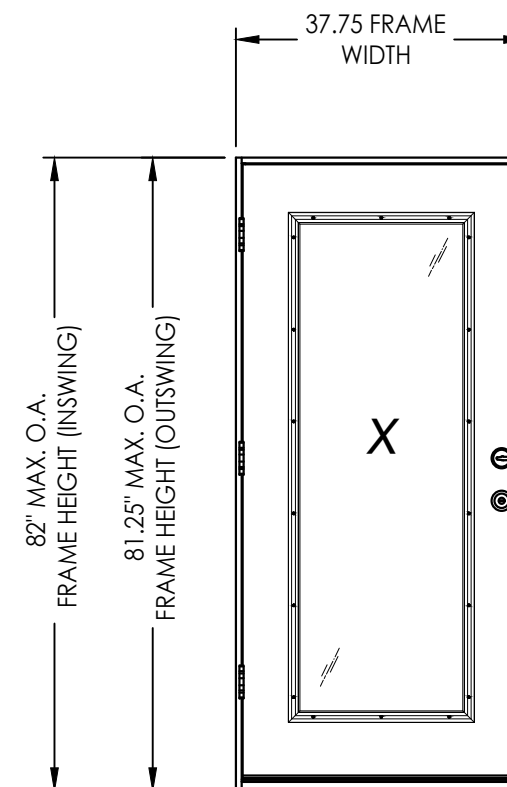


THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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.

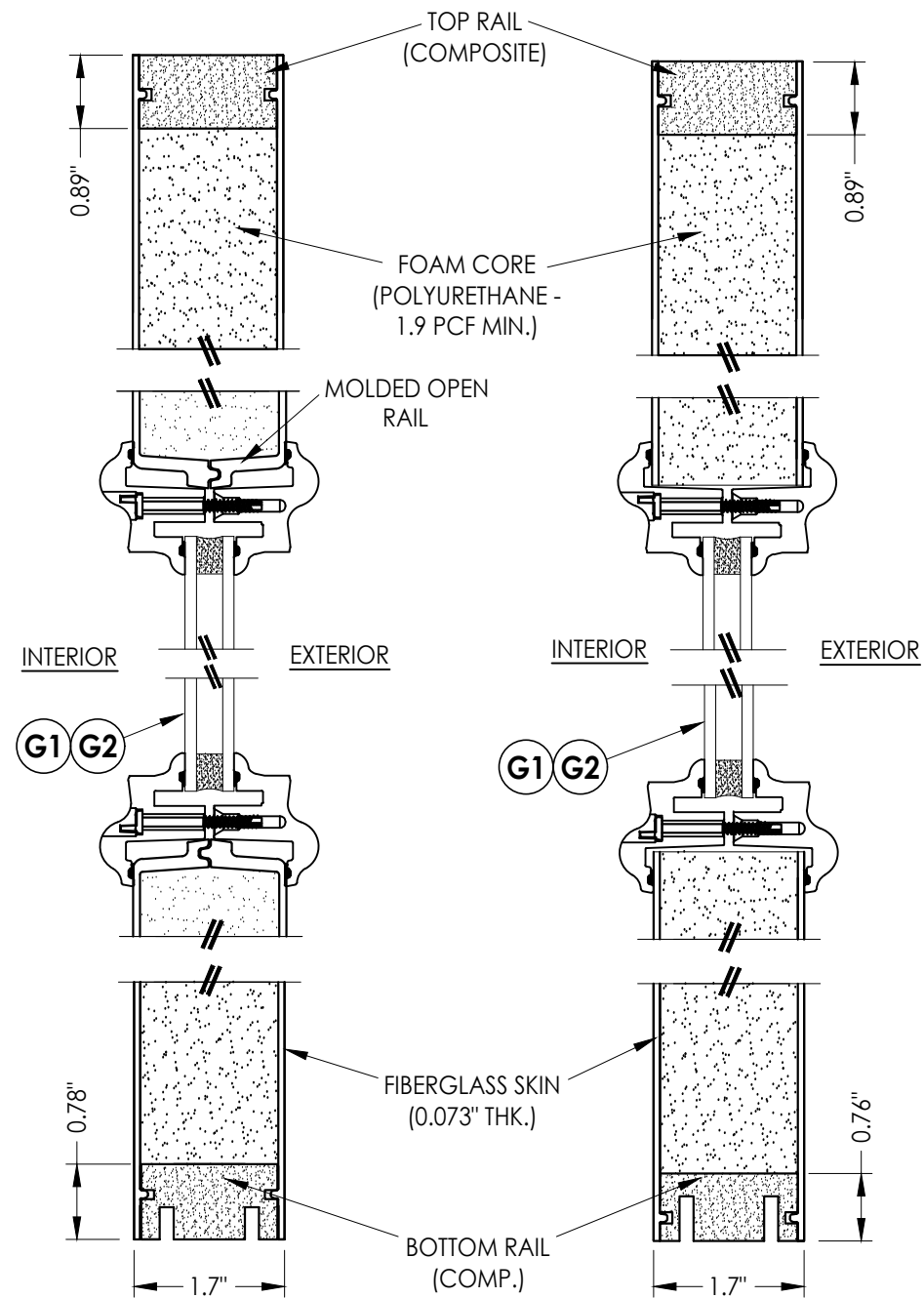
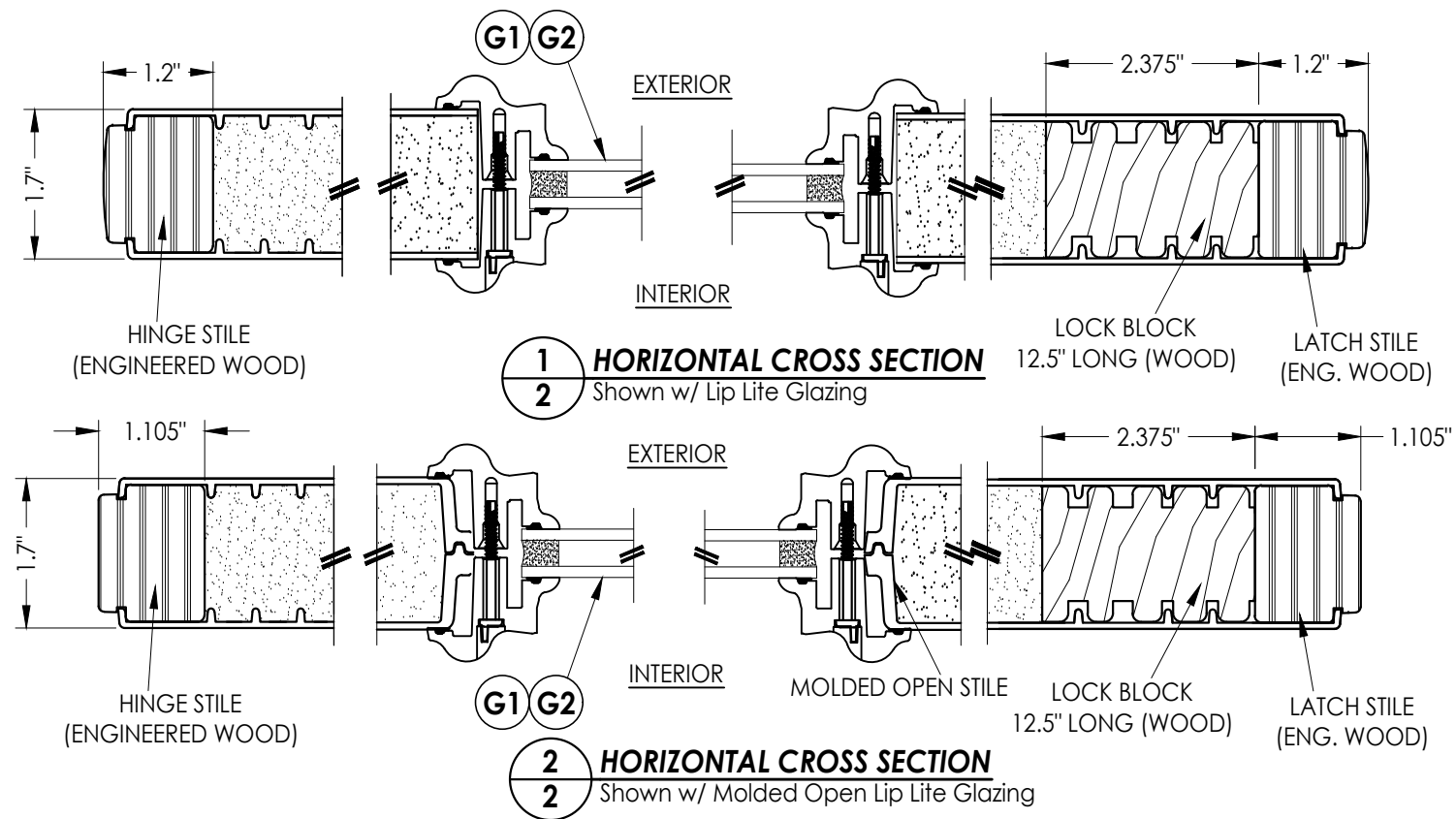


CONFIGURATION	LITE INSERT	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Lip Lite	+47.0	-47.0	+47.0	-47.0
X	Flush Glazed	+47.0	-47.0	+47.0	-47.0
X	3/4 Flush Glazed	+47.0	-47.0	+47.0	-47.0

See Sheet 4 for Hardware Specifications

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

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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
4	8/21/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020)	FBC PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
1	12/03/17	RECESSED PANEL NOTATION	JK
NO.	DATE		BY
REVISIONS			
DATE: 07/07/17			
SCALE: N.T.S.			
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.: FL-21135.5			
SHEET 1		OF 13	



3 VERTICAL CROSS SECTION
2 Shown w/ Molded Open Lip Lite Glazing

4 **VERTICAL CROSS SECTION**
2 Shown w/ Lip Lite Glazing

4	8/21/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020)	FBC PO
2	10/08/18	REV. DOOR PANEL OPTION	NOTE MT
1	12/03/17	RECESSED PANEL NOTATION	JK
NO.	DATE		BY
			REVISIONS

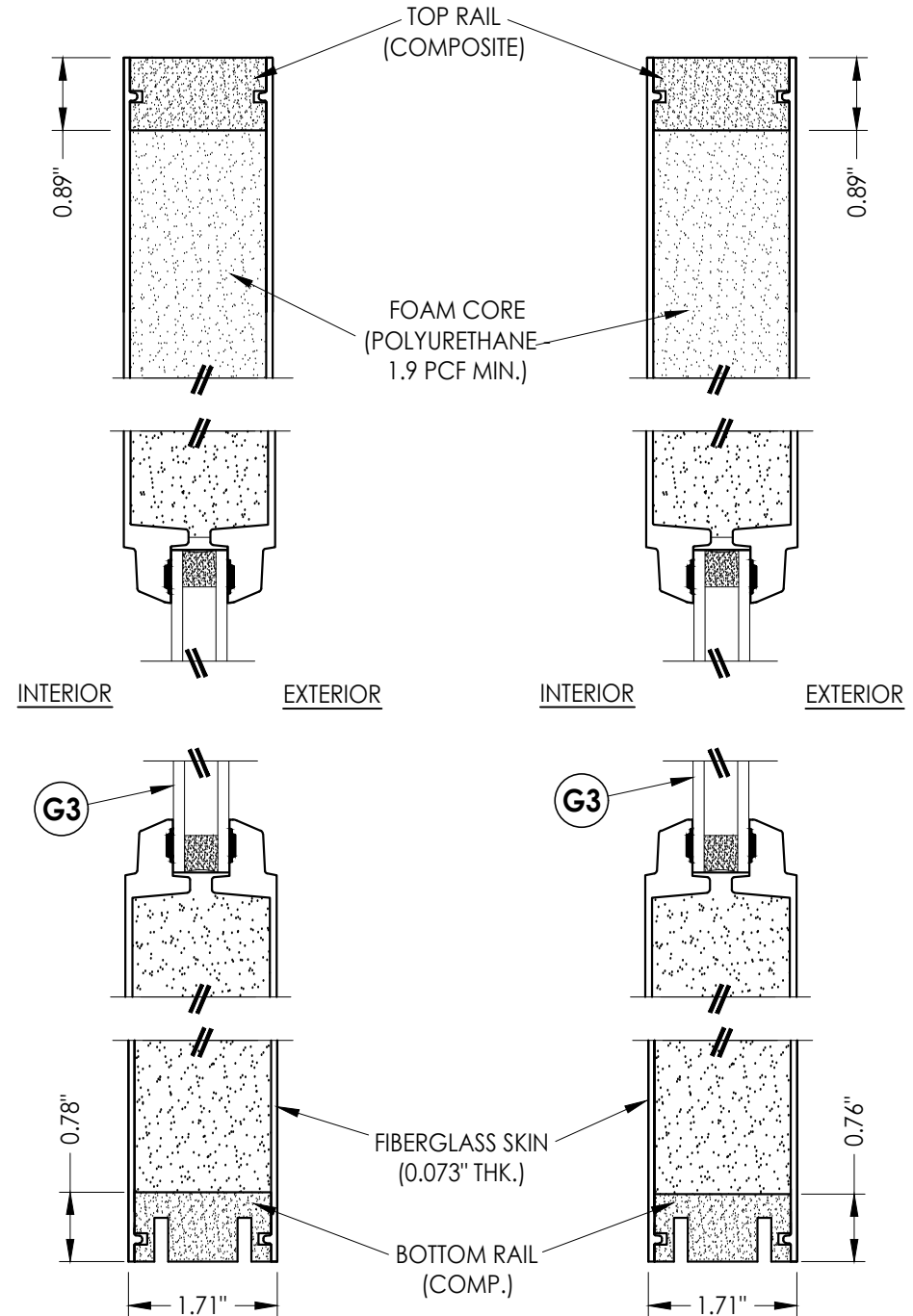
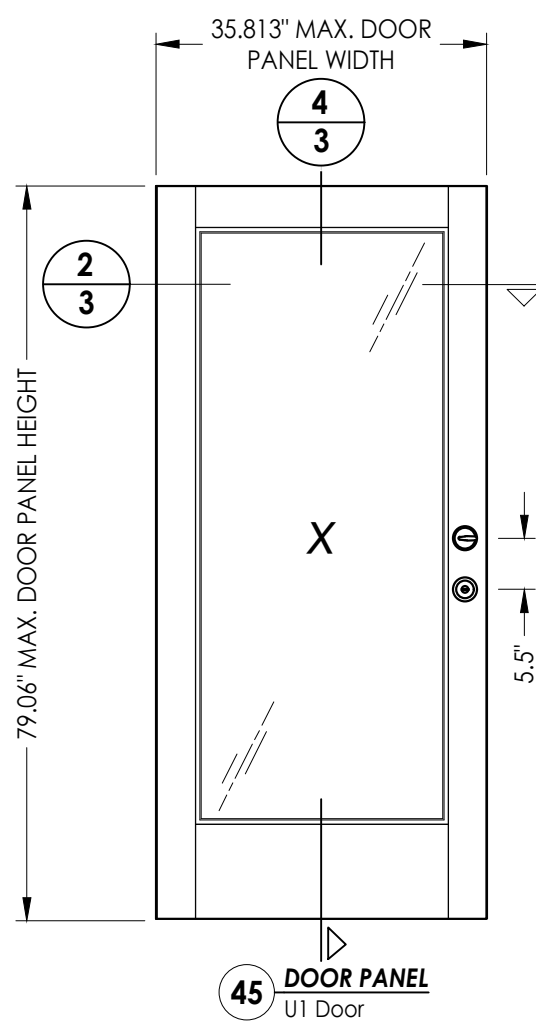
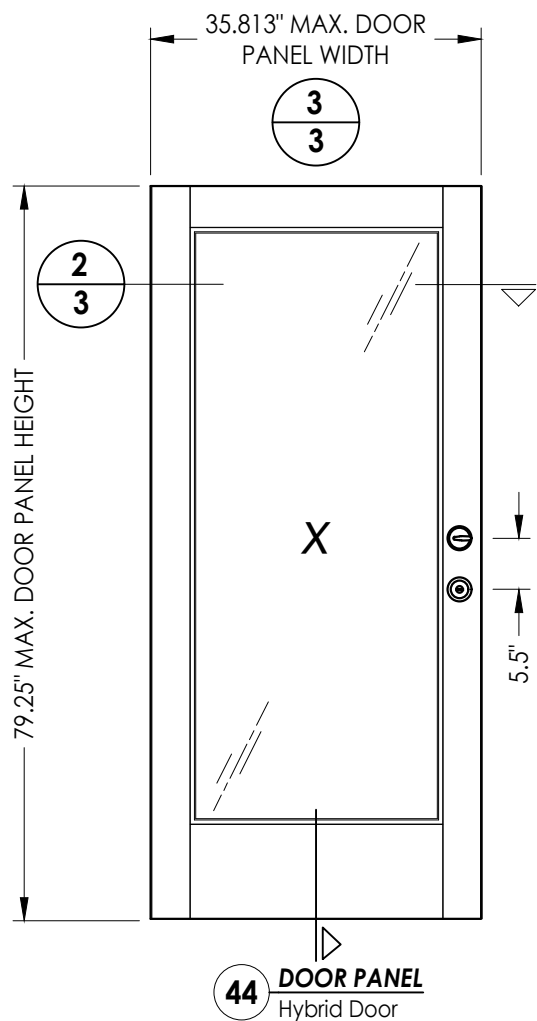
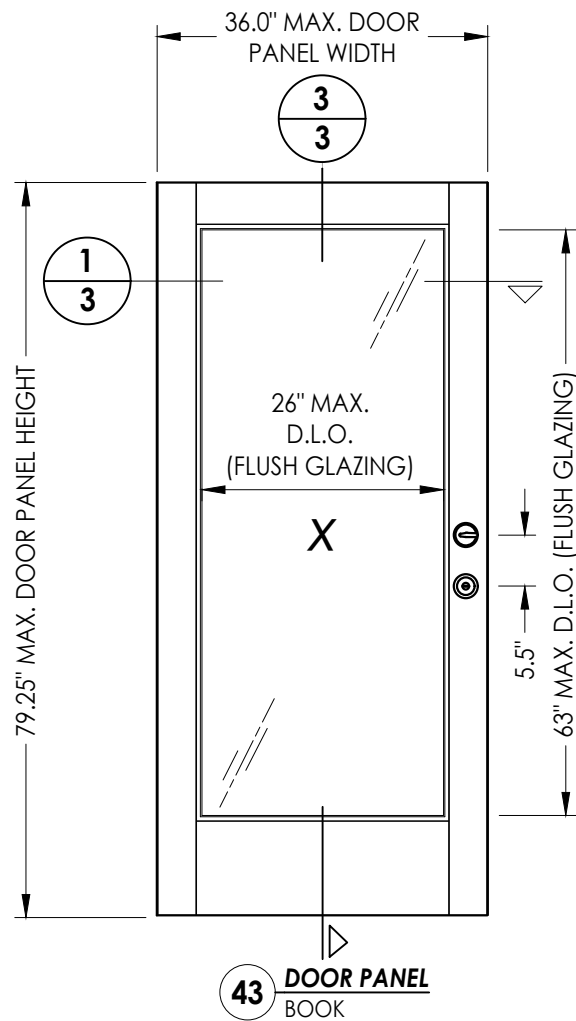
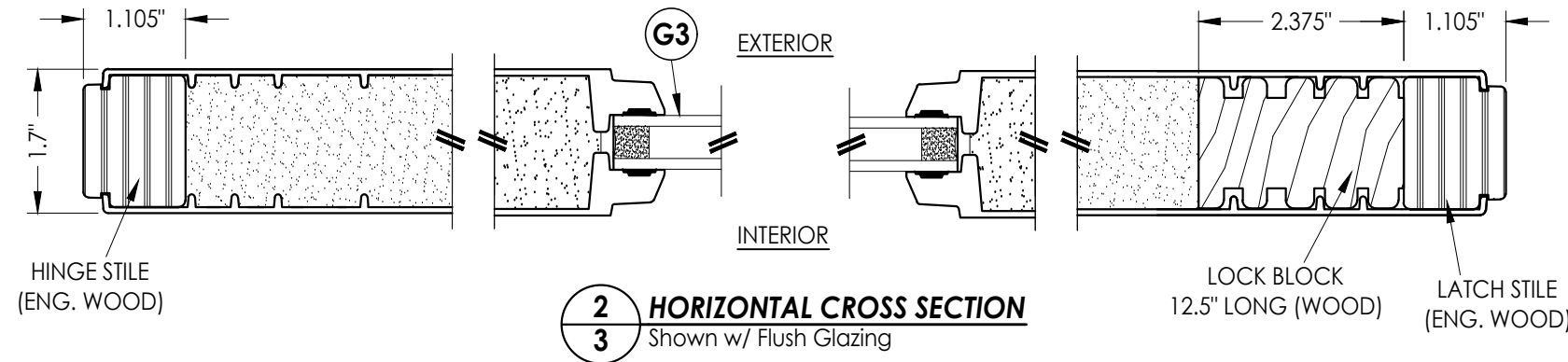
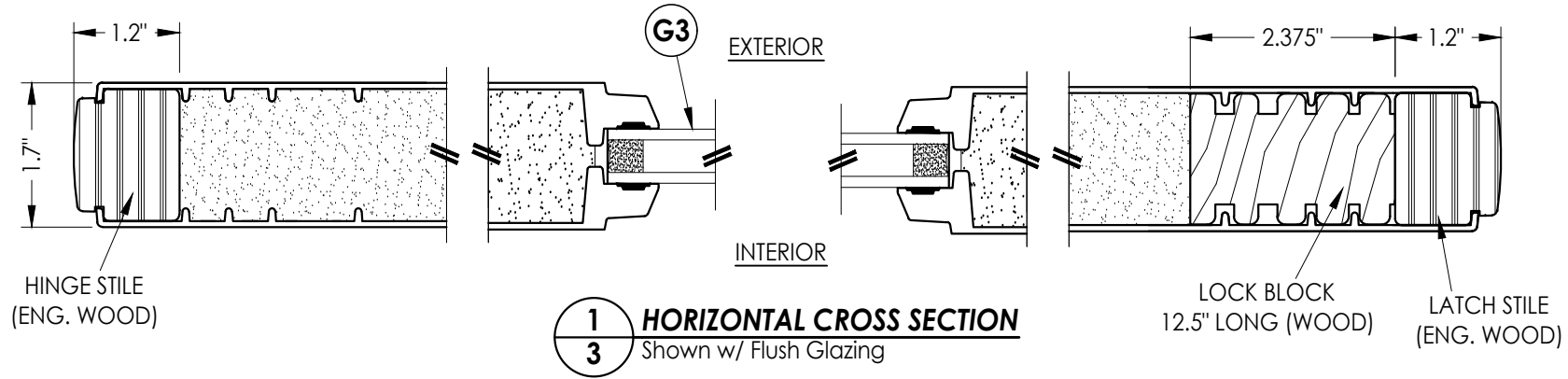
FL-21135.5

SHEET 2 OF 13

DOOR ASSEMBLY:
DOOR PANEL DETAILS

Prepared By:
J. Schmidt
43409

Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.5-8.dwg



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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

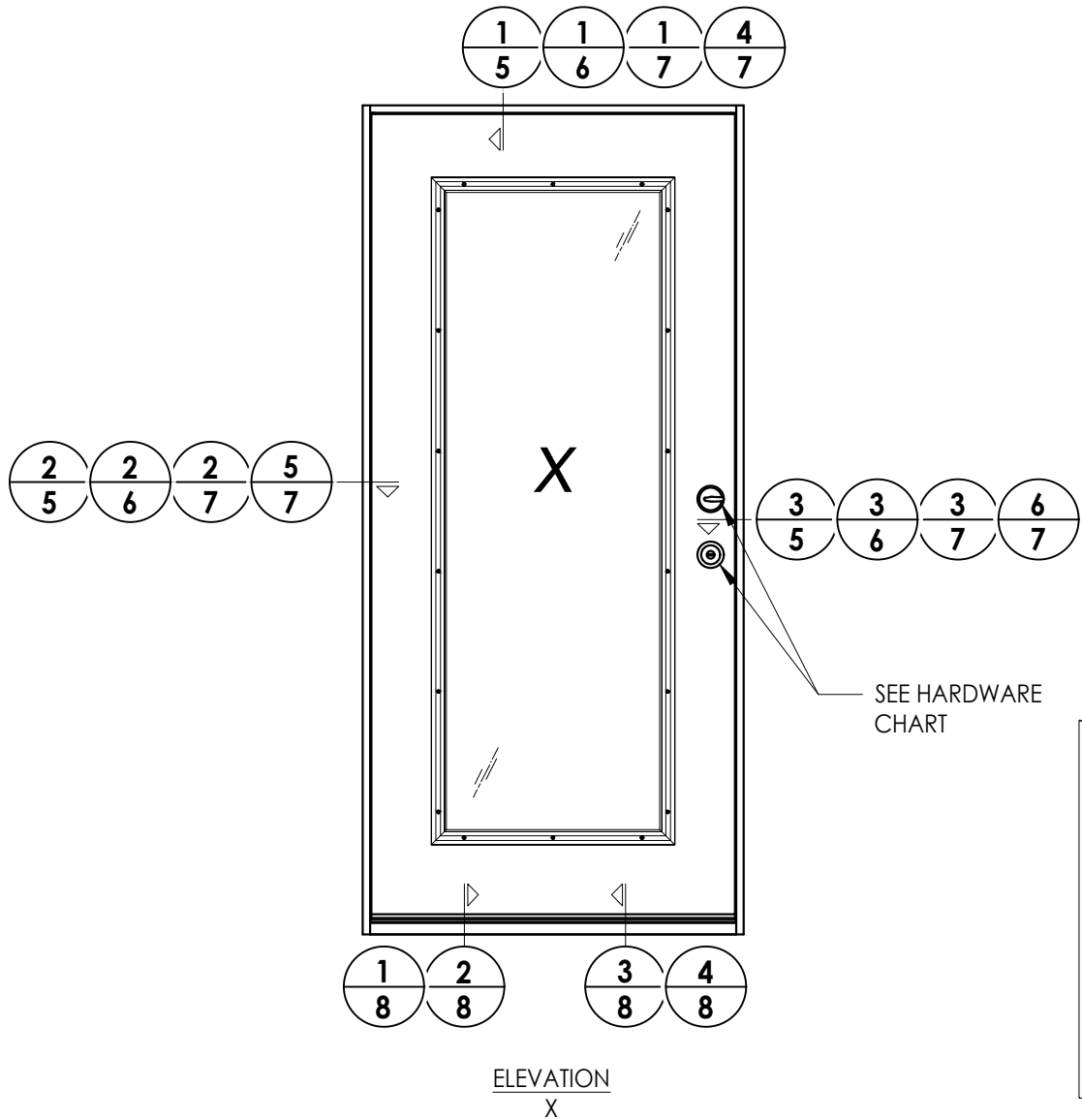
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21135.5

DATE: 07/07/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21135.5
SHEET 3 OF 13

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FBPE Registry No. 9813

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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:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21135.5

SHEET 4 OF 13

4 8/21/23 UPDATE TO 8TH ED. (2023) FBC LFS

3 7/16/20 UPDATE TO 7th ED (2020) FBC PO

2 10/08/18 REV. DOOR PANEL OPTION NOTE MT

1 12/03/17 RECESSED PANEL NOTATION JK

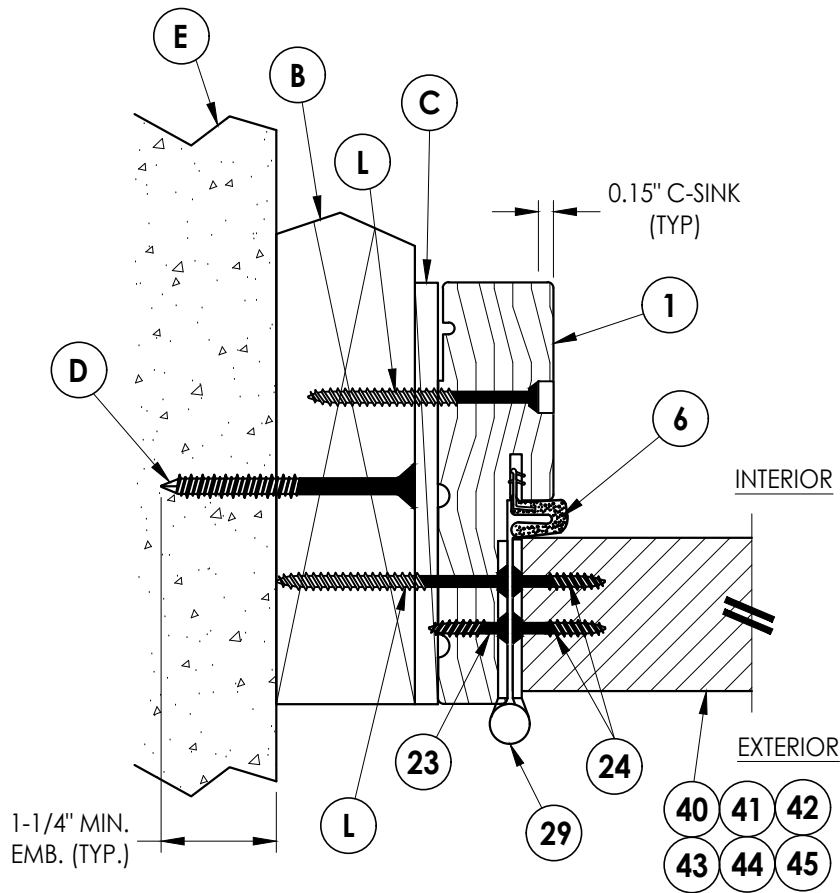
NO. DATE BY

REVISIONS

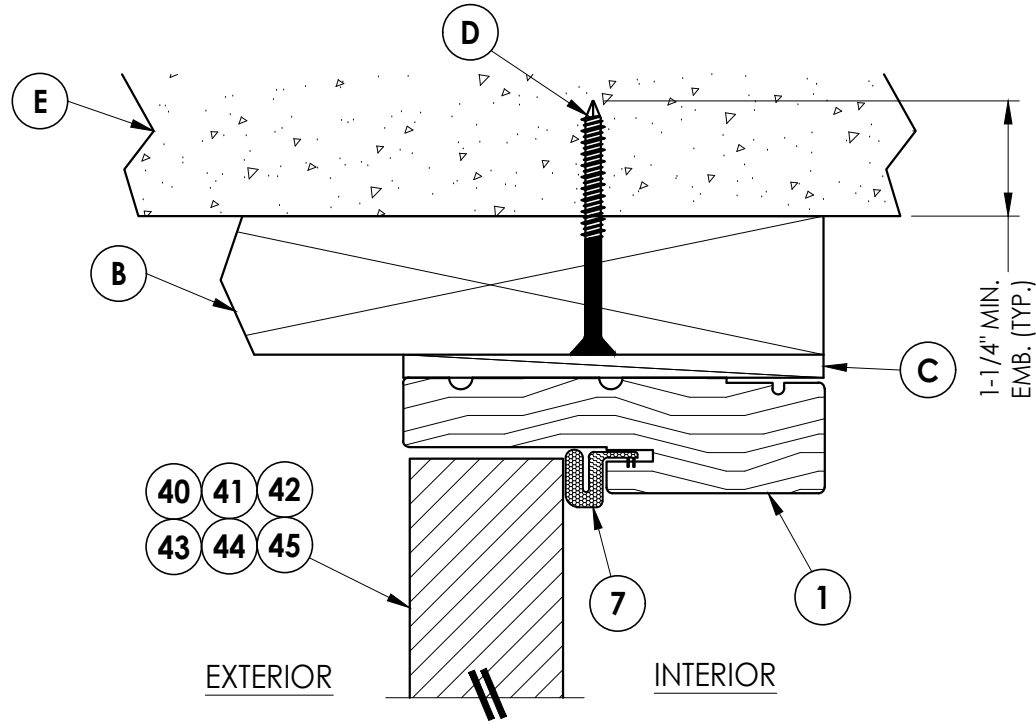
RW

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FBPE Registry No. 9813

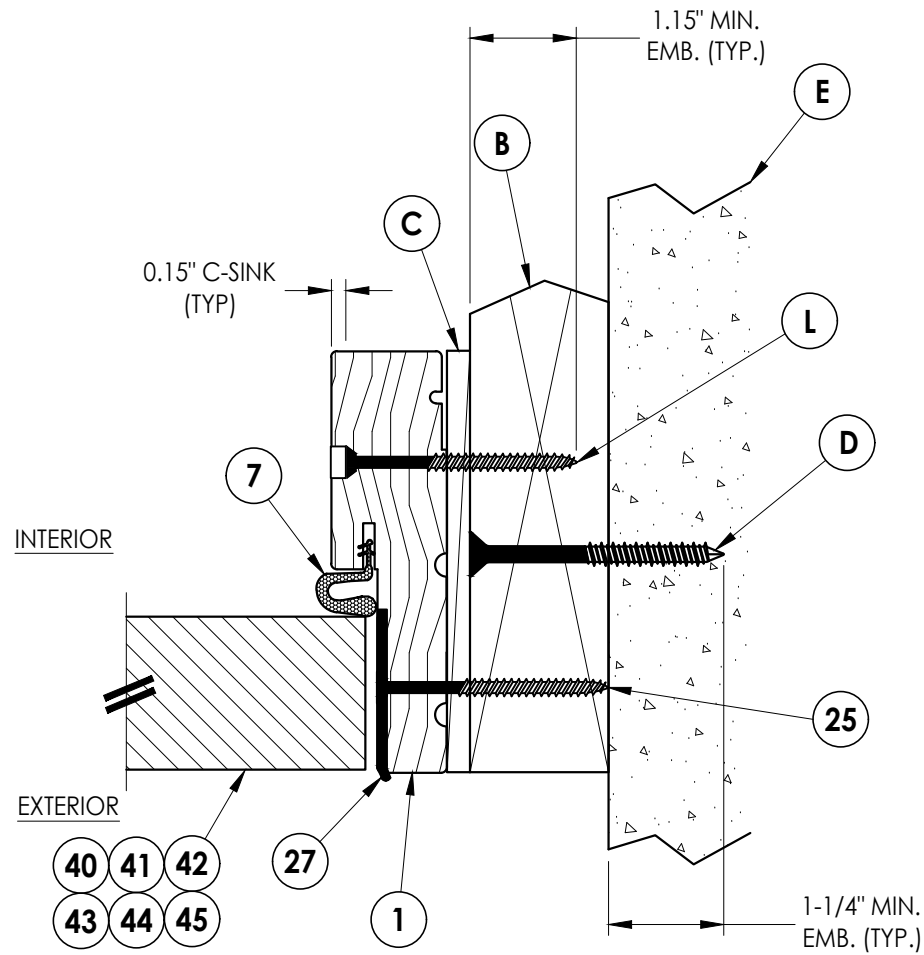
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2 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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)

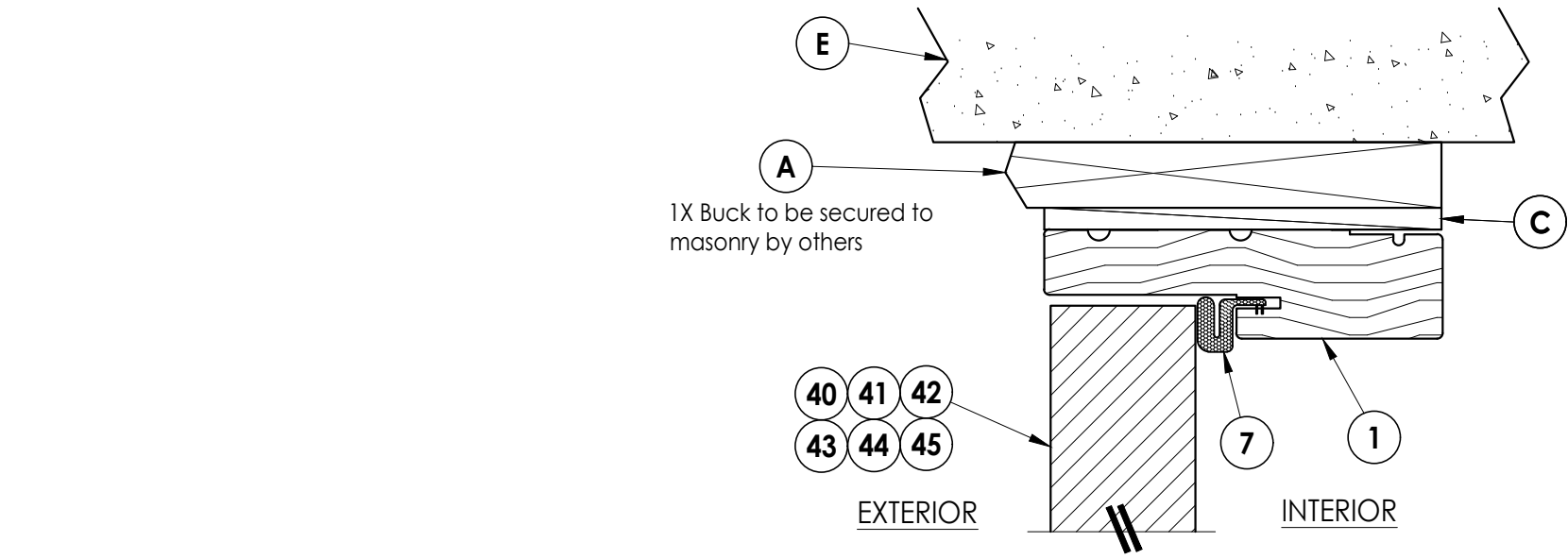
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SCALE: N.T.S.		3		7/16/20		PO		UPDATE TO 7th ED (2020) FBC	
DWG. BY: JK		2		10/08/18		MT		REV. DOOR PANEL OPTION NOTE	
CHK. BY: LFS		1		12/03/17		JK		RECESSED PANEL NOTATION	
DRAWING NO.: FL-21135.5									
SHEET 5 OF 13									

PRODUCT:		PART OR ASSEMBLY:	
THERMA-TRU FIBERGLASS DOOR		HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	

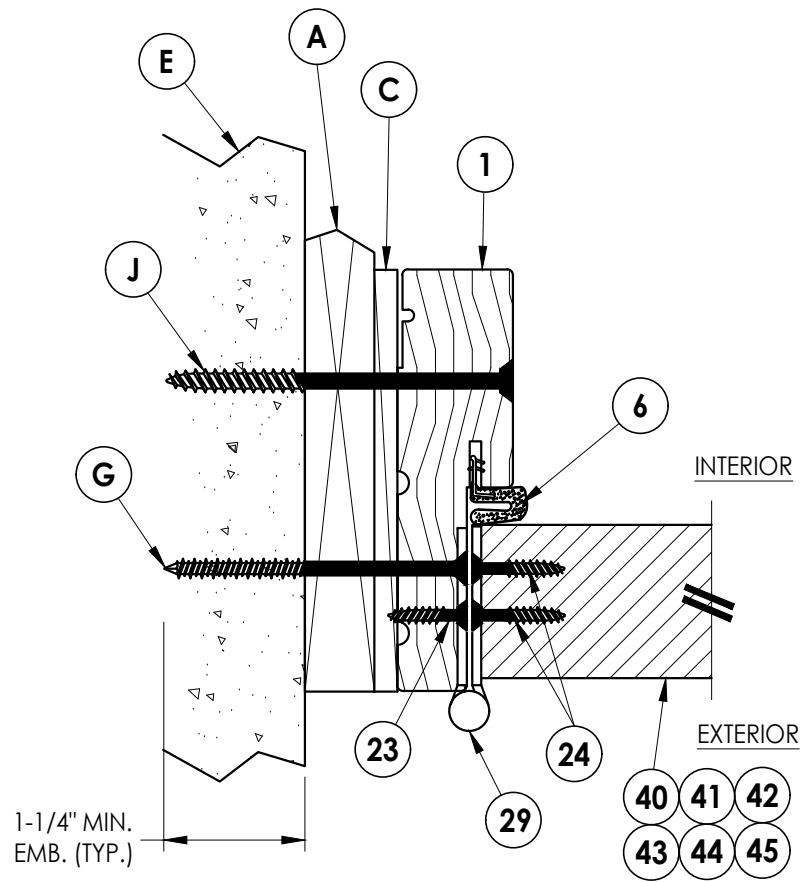
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

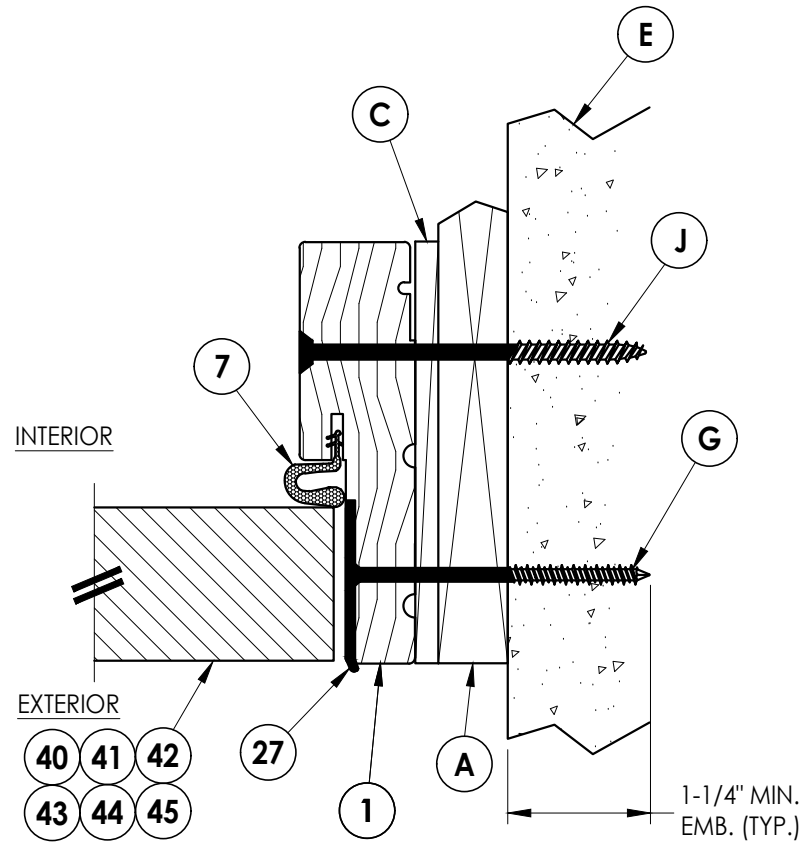
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1 **VERTICAL CROSS SECTION**
6 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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

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
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS
4	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020) FBC PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE MT
1	12/03/17	RECESSED PANEL NOTATION JK
NO.	DATE	BY

DATE: 07/07/17

SCALE: N.T.S.

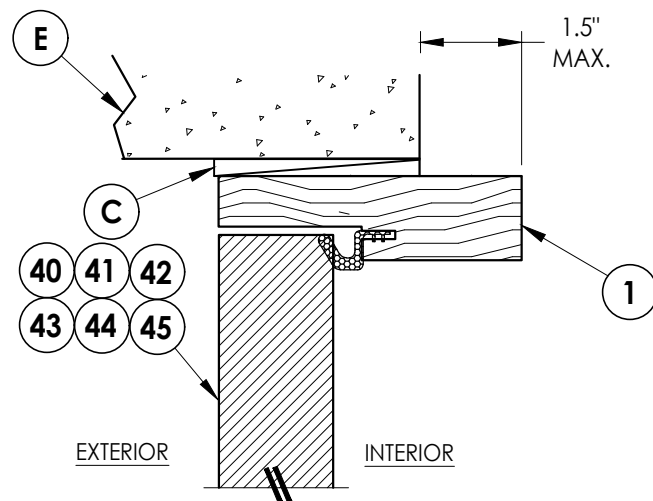
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CHK. BY: LFS

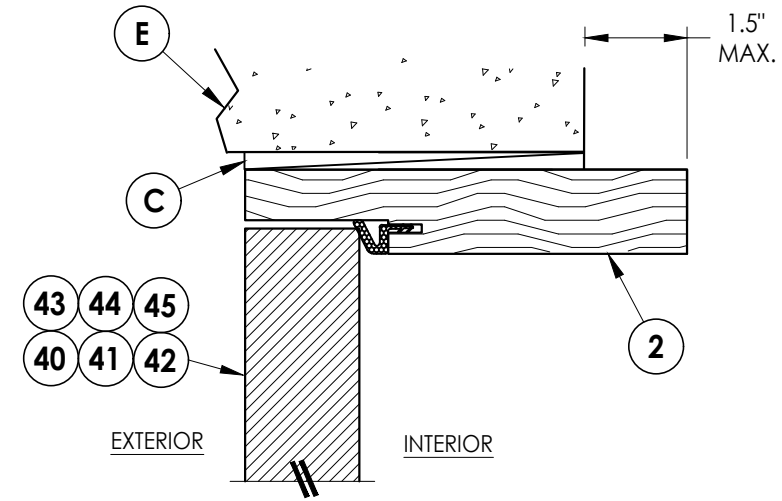
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FL-21135.5

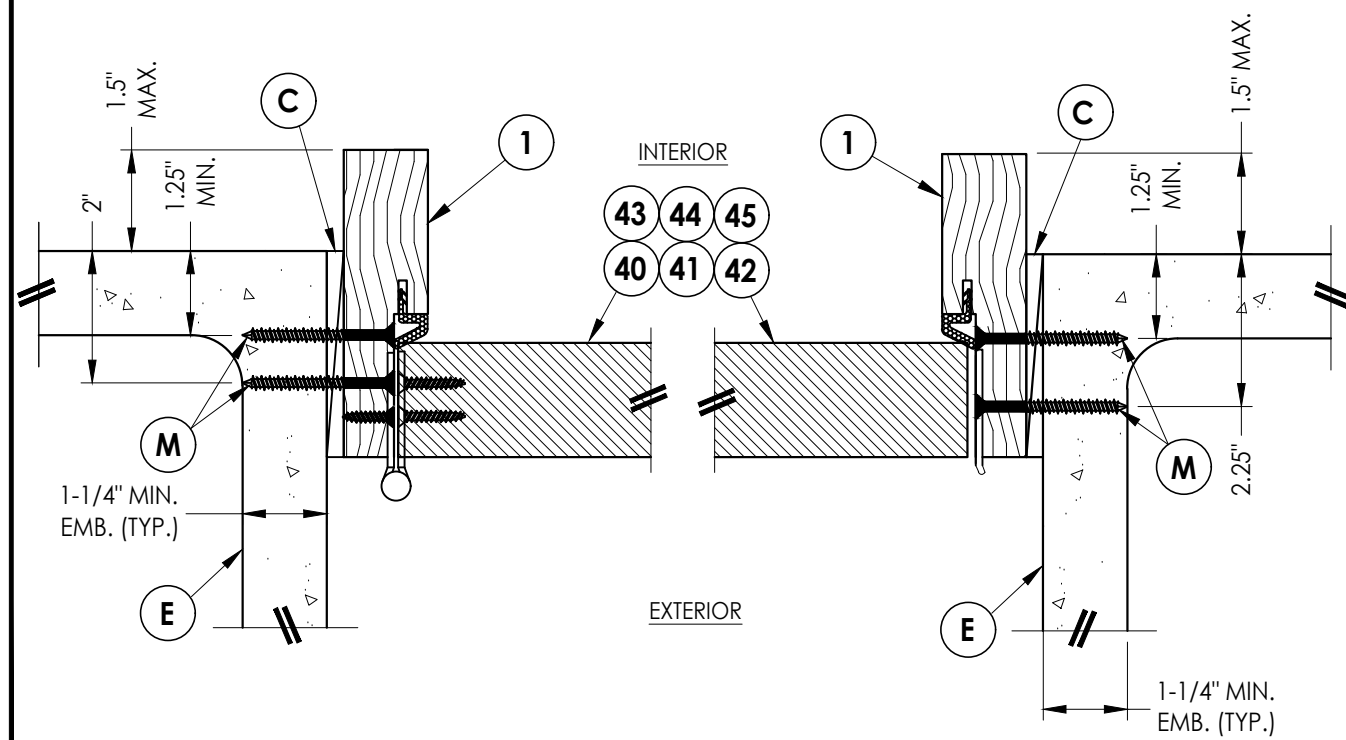
SHEET 6 OF 13



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

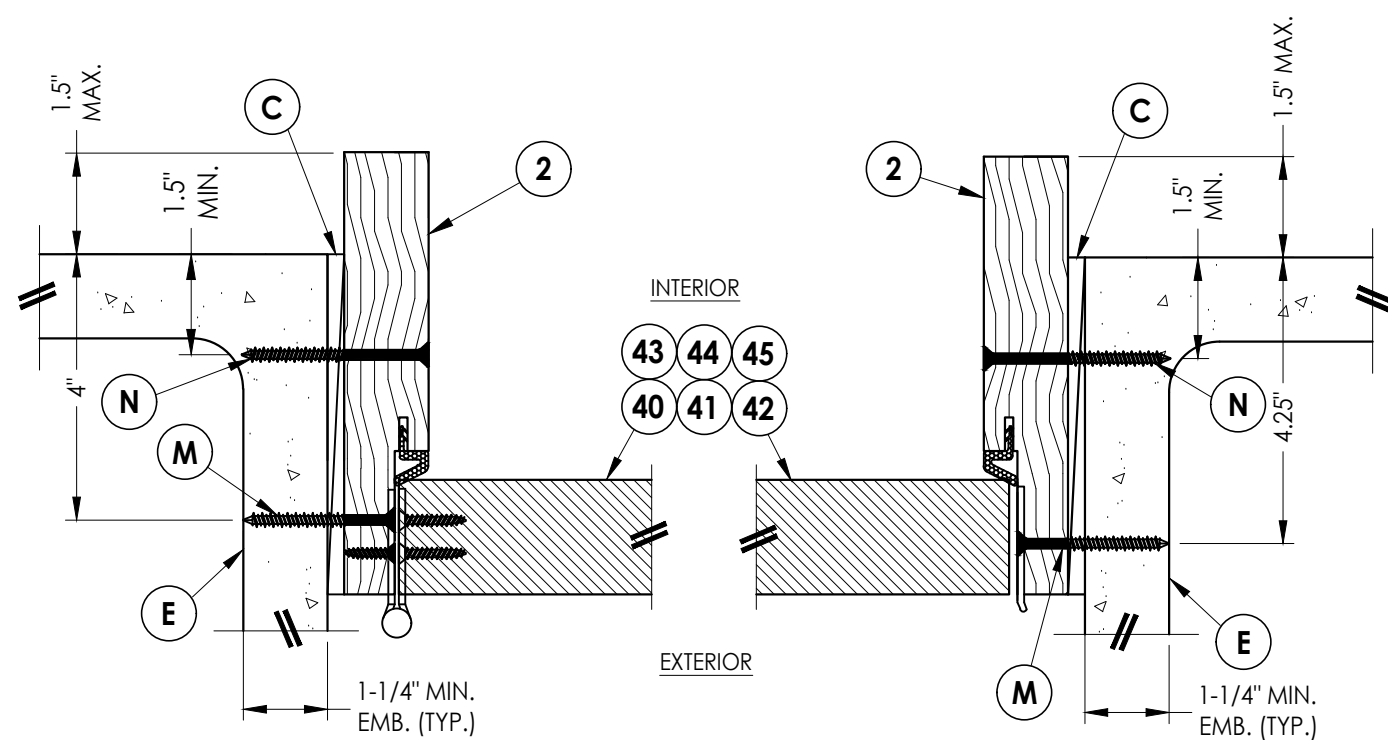


4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



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

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



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

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

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

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)

4	8/21/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS						
3	7/16/20	UPDATE TO 7th ED	(2020)	FBC	PO						
2	10/08/18	REV. DOOR PANEL OPTION	NOTE		MT						
1	12/03/17	RECESSED PANEL NOTATION			JK						
NO.	DATE				BY						
									REVISIONS		

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: *LFS*

DRAWING NO.:

FL-21135.5

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.

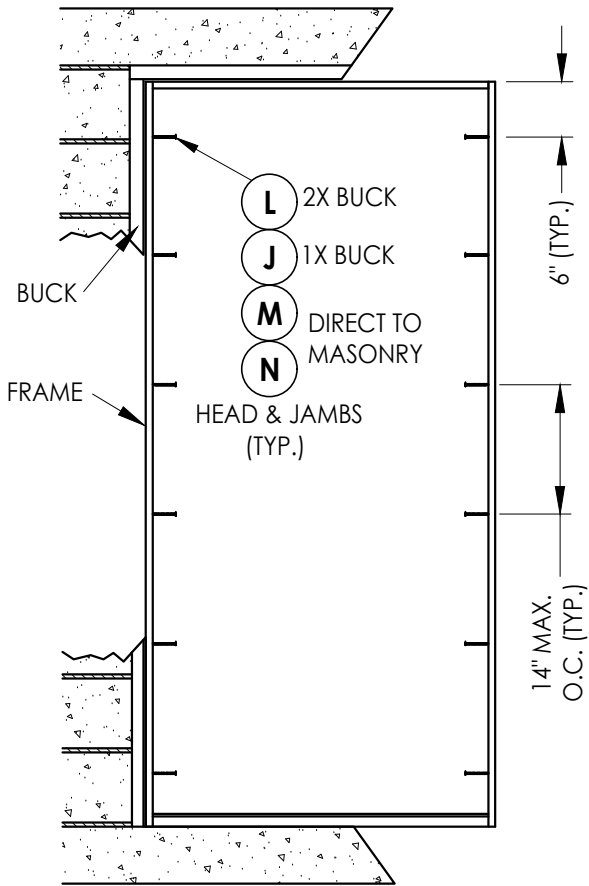
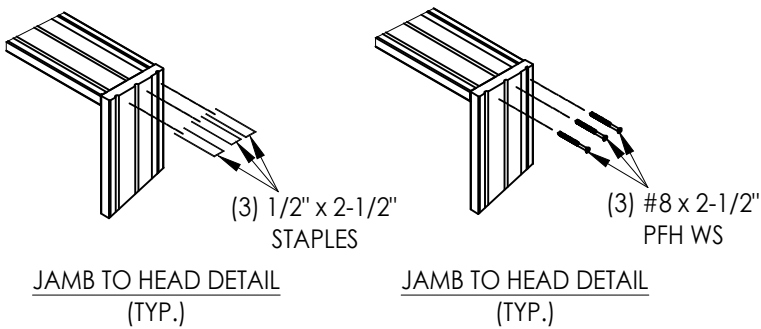
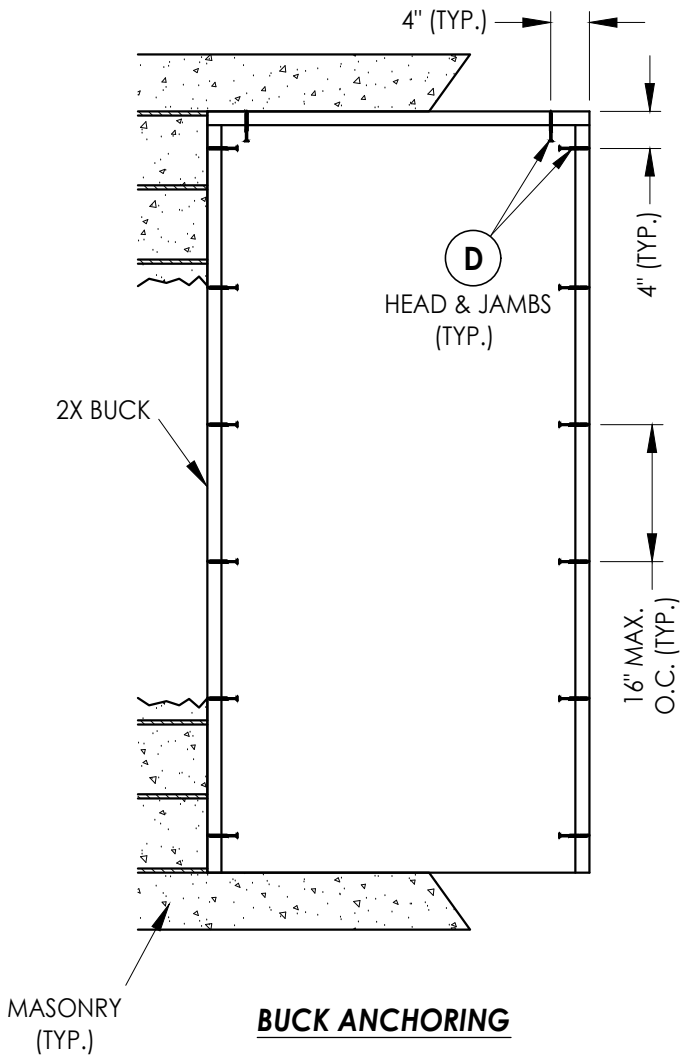


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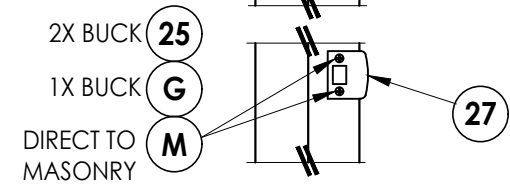
PART OR ASSEMBLY:
**VERTICAL CROSS
SECTIONS (THRESHOLDS)**

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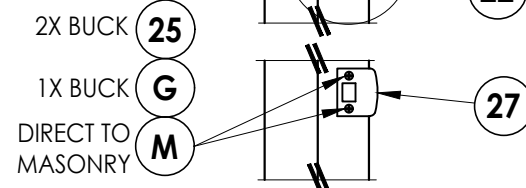
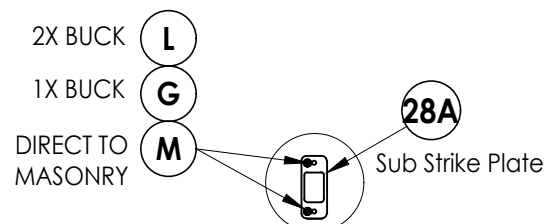
SHEET 8 OF 13



DATE: 07/07/17		PRODUCT: THERMA-TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.		PART OR ASSEMBLY: BUCK AND FRAME ANCHORING			



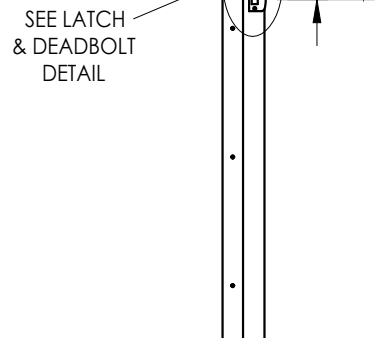
LATCH & DEADBOLT DETAIL
Kwikset



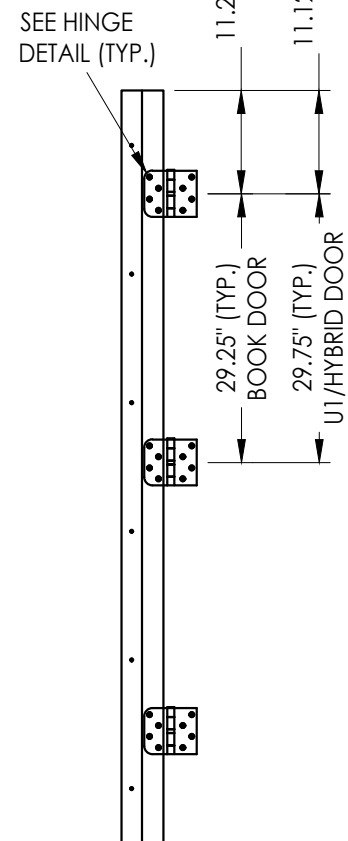
LATCH & DEADBOLT DETAIL
Schlage

LATCH & DEADBOLT STRIKE DETAILS

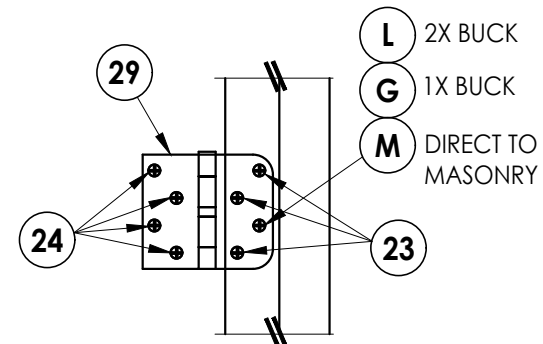
(Standard Deadbolt Strike Plate)



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



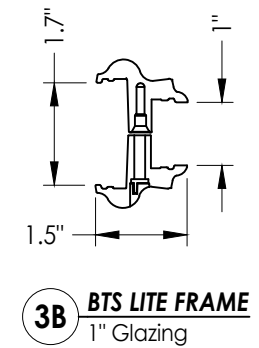
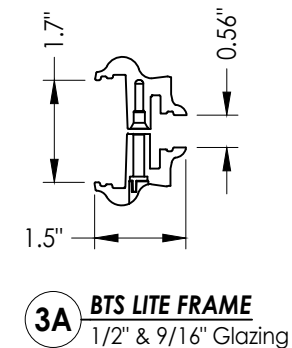
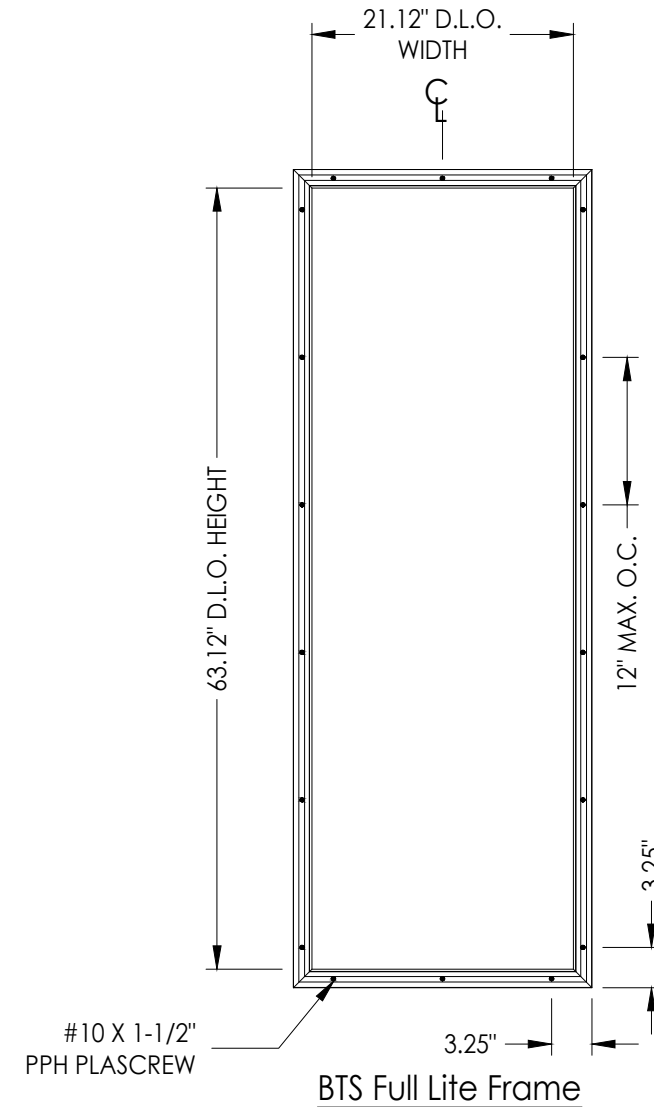
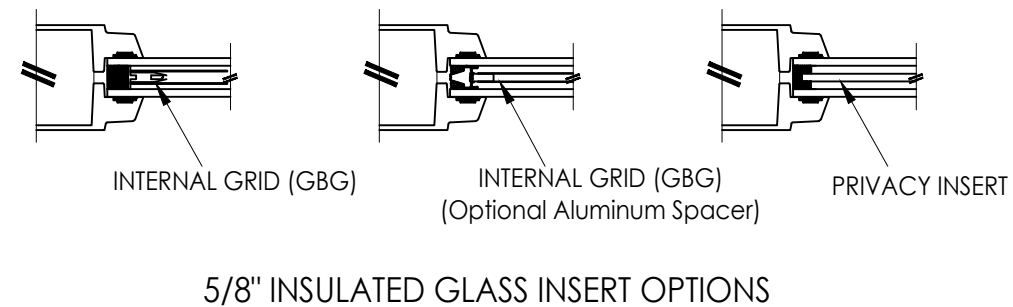
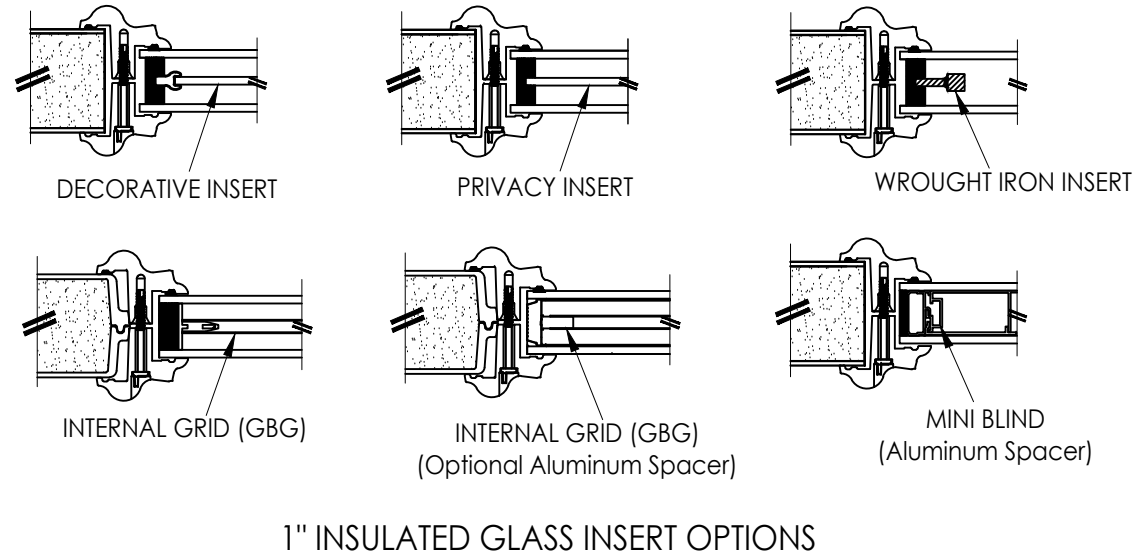
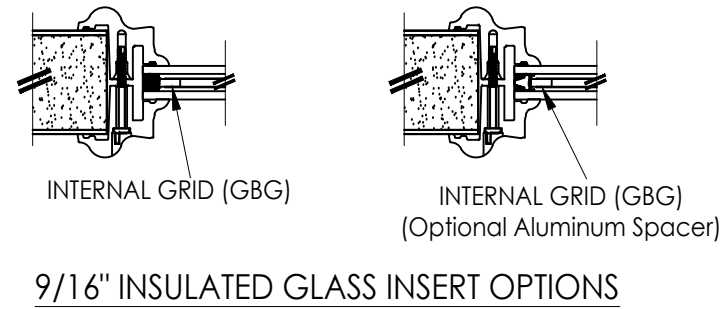
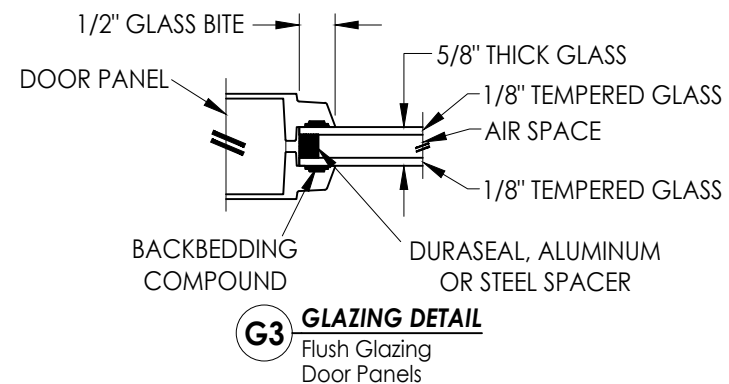
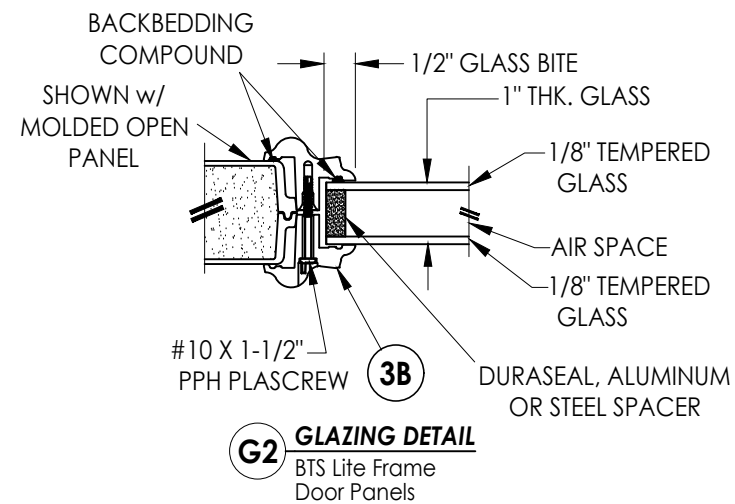
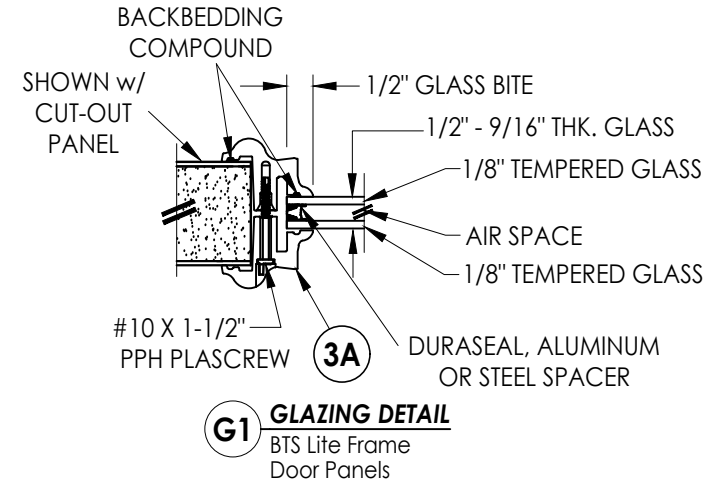
HINGE DETAIL

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DATE:	07/07/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21135.5
SHEET	10 OF 13

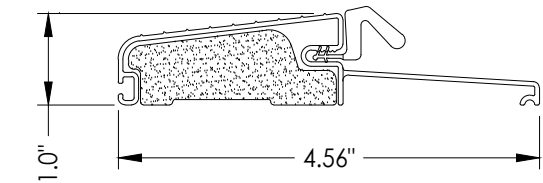
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

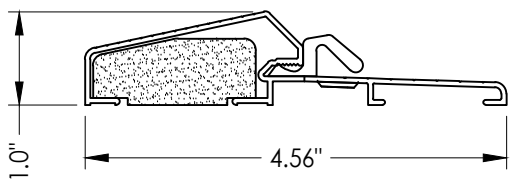


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												RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
												PRODUCT: THERMA-TRU FIBERGLASS DOOR	
												PART OR ASSEMBLY: GLAZING DETAILS	
												REVISIONS	
												LFS PO MT JK BY	
												4 8/21/23 UPDATE TO 8TH ED. (2023) FBC 3 7/16/20 UPDATE TO 7th ED (2020) FBC 2 10/08/18 REV. DOOR PANEL OPTION NOTE 1 12/03/17 RECESSED PANEL NOTATION NO. DATE	
DATE: 07/07/17													
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SHEET 11 OF 13													

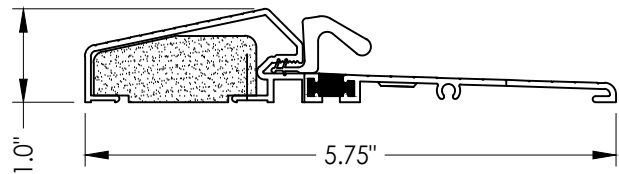
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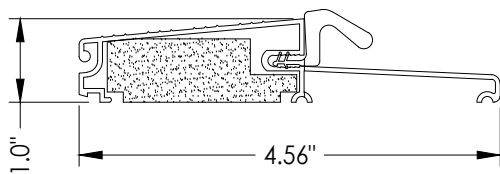
16 OUTSWING THRESHOLD
Composite Sill



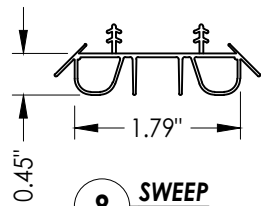
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



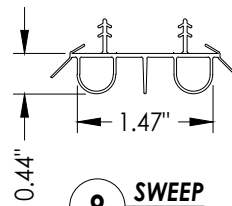
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



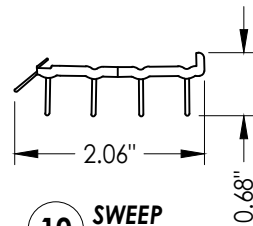
19 OUTSWING THRESHOLD
Composite Sill



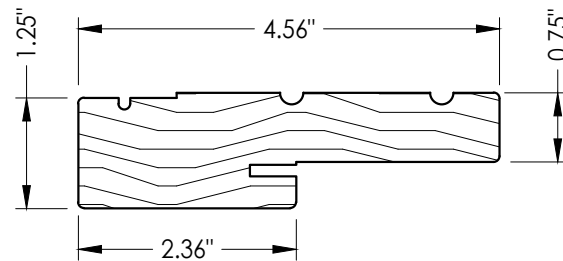
8 SWEEP



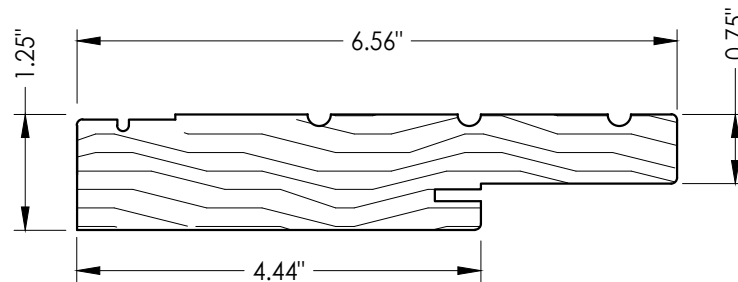
9 SWEEP



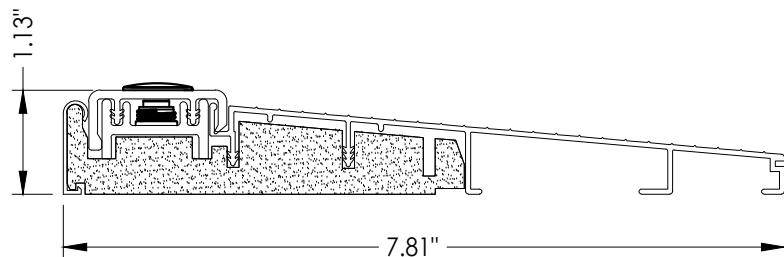
10 SWEEP



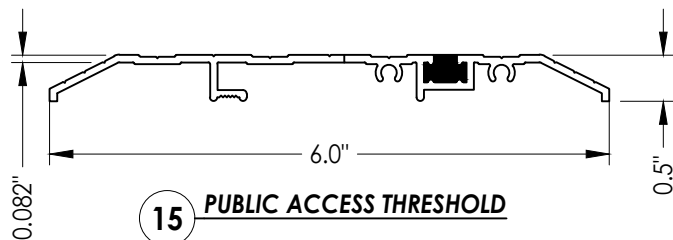
1 WOOD JAMB



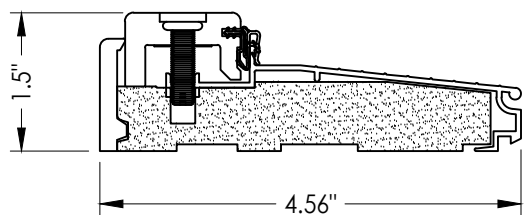
2 WOOD JAMB



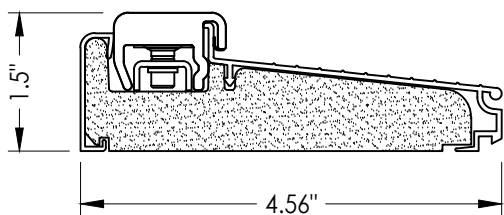
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



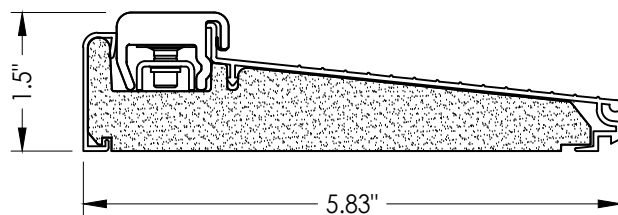
15 PUBLIC ACCESS THRESHOLD



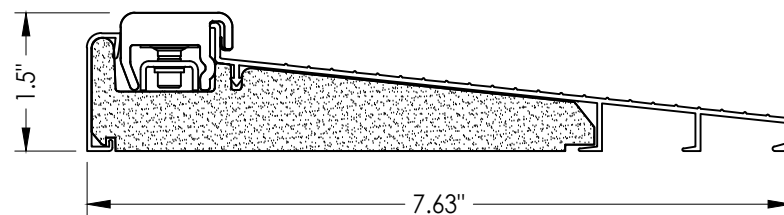
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



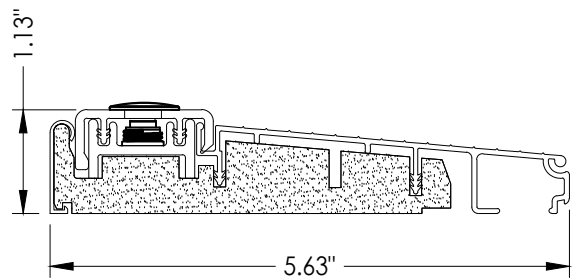
50 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



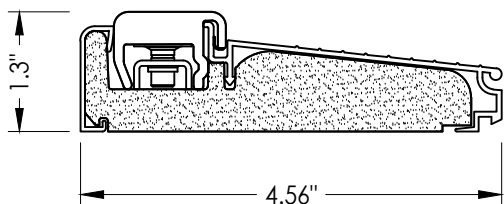
51 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



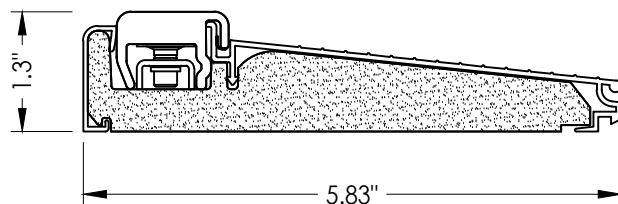
52 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



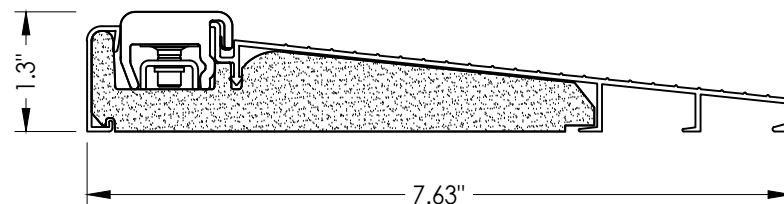
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



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
4	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020) FBC PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE MT
1	12/03/17	RECESSED PANEL NOTATION JK

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-21135.5

SHEET 12 OF 13

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	IN swing THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	38	IN swing THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	39	IN swing 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	IN swing THRESHOLD	ALUM/COMP
9	SWEEP	VINYL	51	IN swing THRESHOLD	ALUM/COMP
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	52	IN swing THRESHOLD	ALUM/COMP
15	ADA THRESHOLD	ALUM	53	IN swing THRESHOLD	ALUM/COMP
16	OUT swing THRESHOLD	ALUM/COMP	54	IN swing THRESHOLD	ALUM/COMP
17	OUT swing THRESHOLD	ALUM/COMP	55	IN swing THRESHOLD	ALUM/COMP
18	OUT swing THRESHOLD	ALUM/COMP			
19	OUT swing 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: Lyndon F. Schmidt P.E. No. 43409						BUILDING CONSULTANTS, INC. <i>R^{gW}</i> P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813					
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THERMA-TRU FIBERGLASS DOOR											
PART OR ASSEMBLY:											
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