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

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

The image contains two technical drawings of doors. The left drawing shows a single door with a central rectangular panel marked with an 'X'. It has a handle and a lock on the right side. Dimensions are provided: 82" MAX. O.A. FRAME HEIGHT (INSWING), 81.25" MAX. O.A. FRAME HEIGHT (OUTSWING), and 37.5" MAX O.A. FRAME WIDTH. The right drawing shows a double door set with two panels, each marked with an 'X'. It also has a handle and lock on the right side. The dimension provided is 74.5" MAX. FRAME WIDTH.

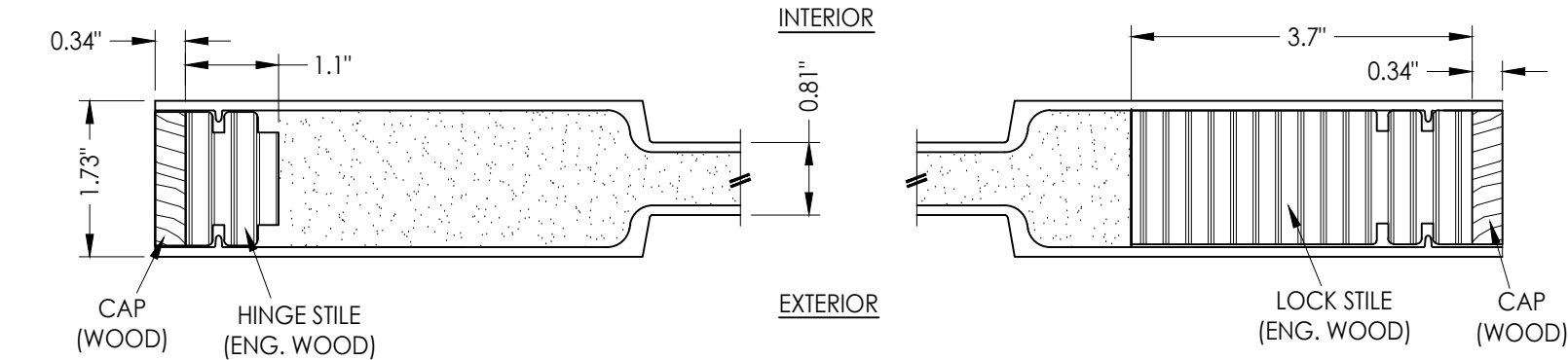
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product 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.
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.

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

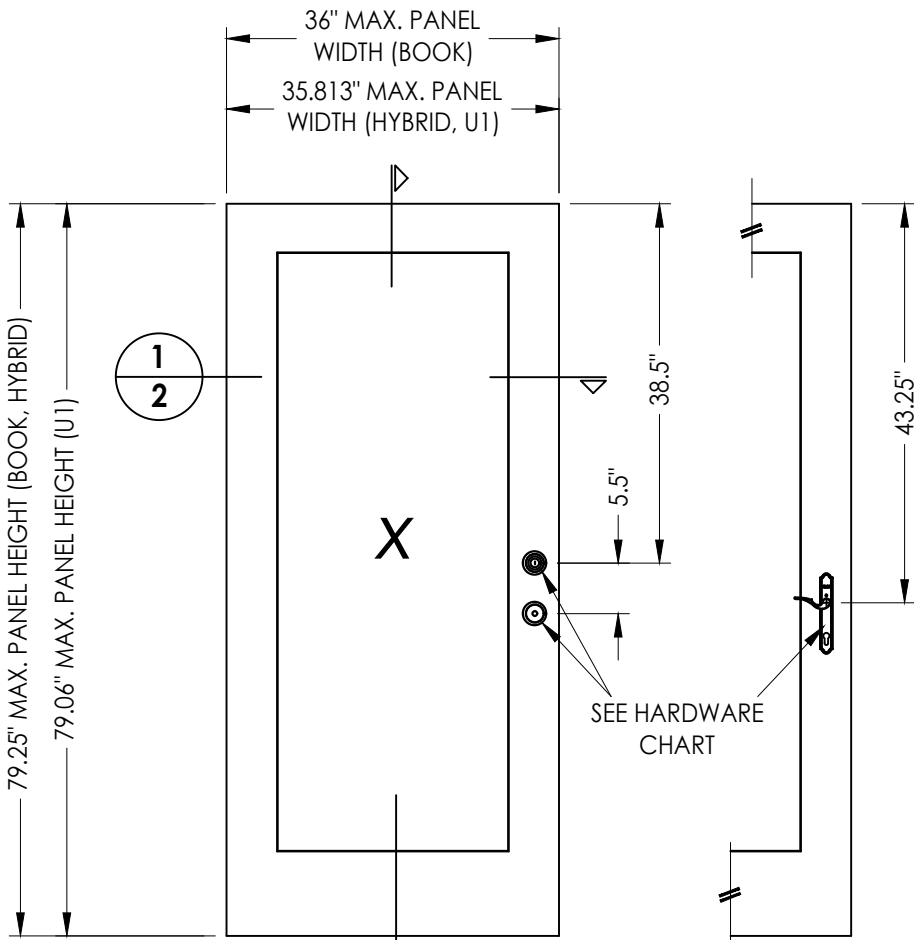
CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Latch & Deadbolt	+67.0	-67.0	+67.0	-67.0
XX	Latch & Deadbolt	+50.0	-50.0	+50.0	-50.0
X, XX	Multipoint	+50.0	-50.0	+50.0	-50.0

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Z:\2023 FBC Drawings\Therma-Tru\FL-28897 R2\FL-28897.13.dwg



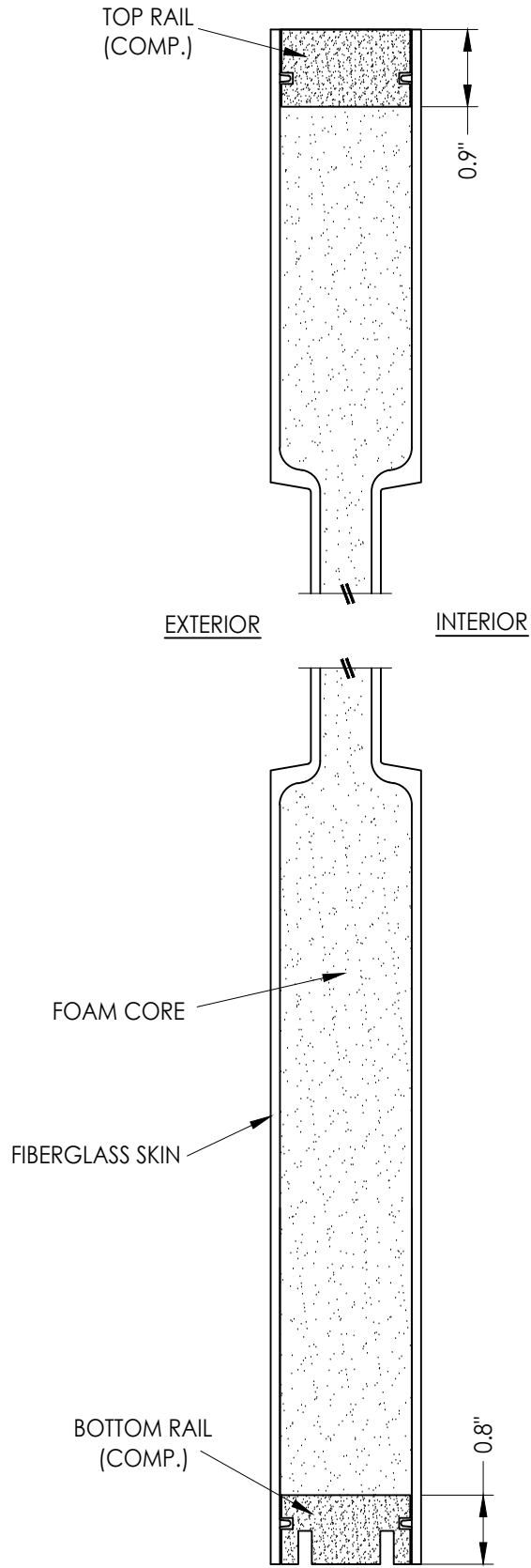
1
2 **HORIZONTAL CROSS SECTION**



2
2 **DOOR PANEL**
Classic-Craft Shaker

FIBERGLASS SKIN: 0.110" MIN. THICKNESS
FOAM CORE: POLYURETHANE (1.9 PCF)

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	KNOB:	F SERIES (F10)
	DEADBOLT:	B SERIES (B60)
HOPPE (Therma-Tru)	MULTIPOINT LOCK: MPDGART (3 pt. Manual Tongue)	



2
2 **VERTICAL CROSS SECTION**

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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
2	7/27/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 2/21/19

SCALE: N.T.S.

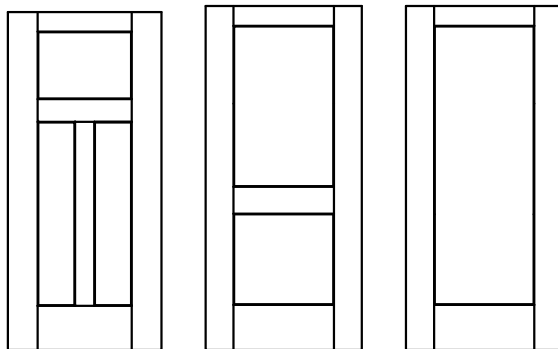
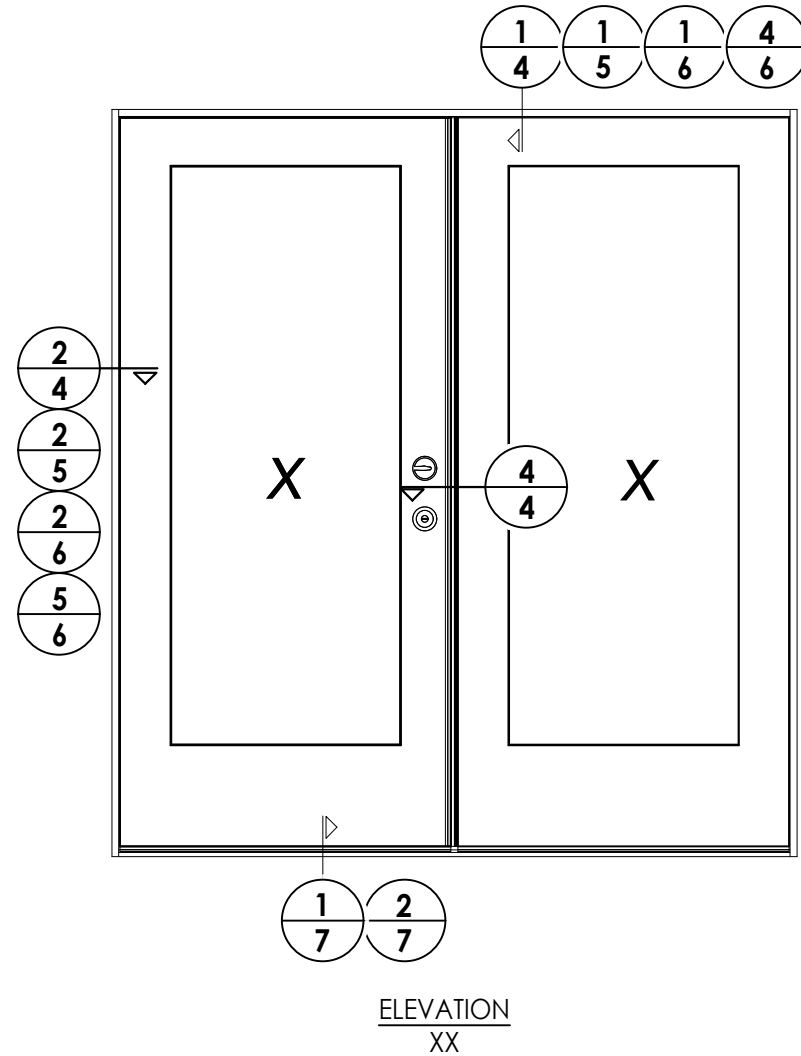
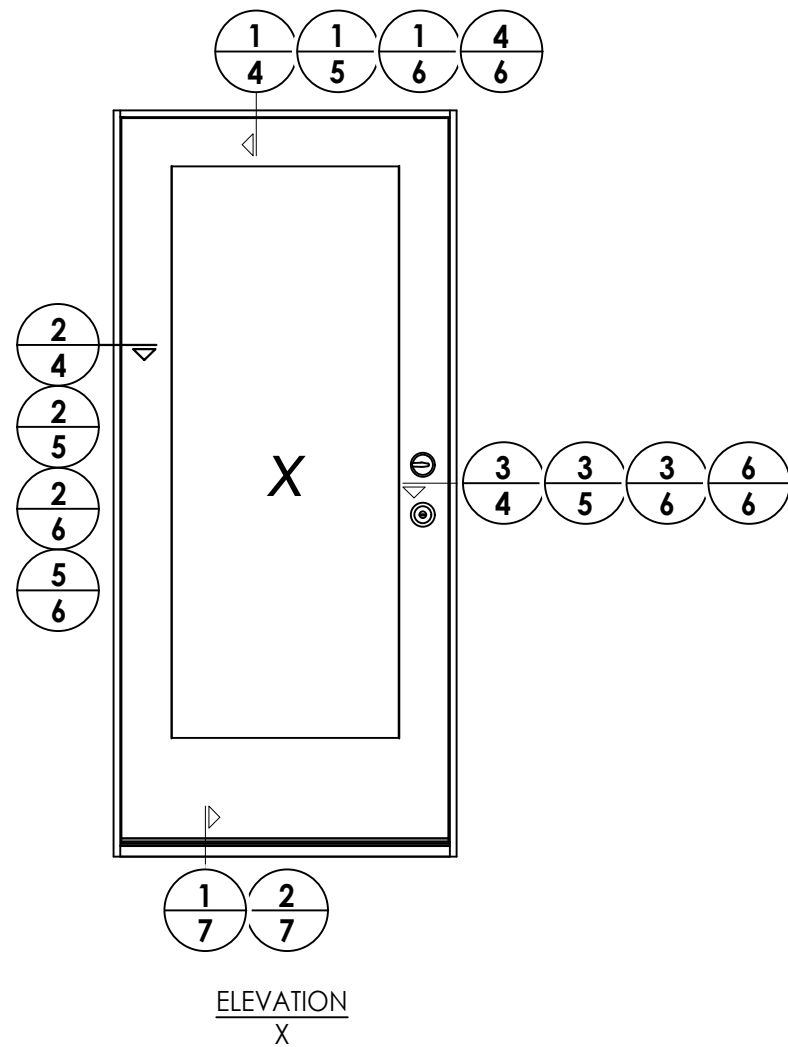
DWG. BY: MT

CHK. BY: LFS

DRAWING NO.:

FL-28897.13

SHEET 2 OF 12



Classic-Craft Shaker Door Panel Options

Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

[illegible]

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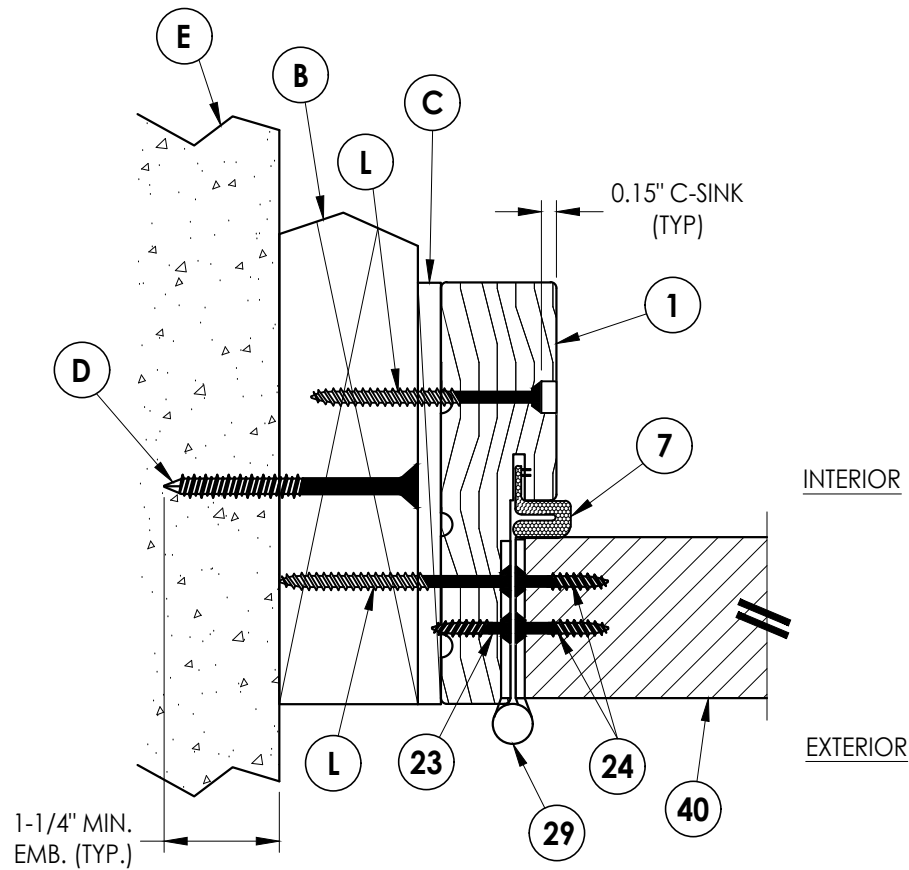
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FIBERGLASS DOOR

PART OR ASSEMBLY:

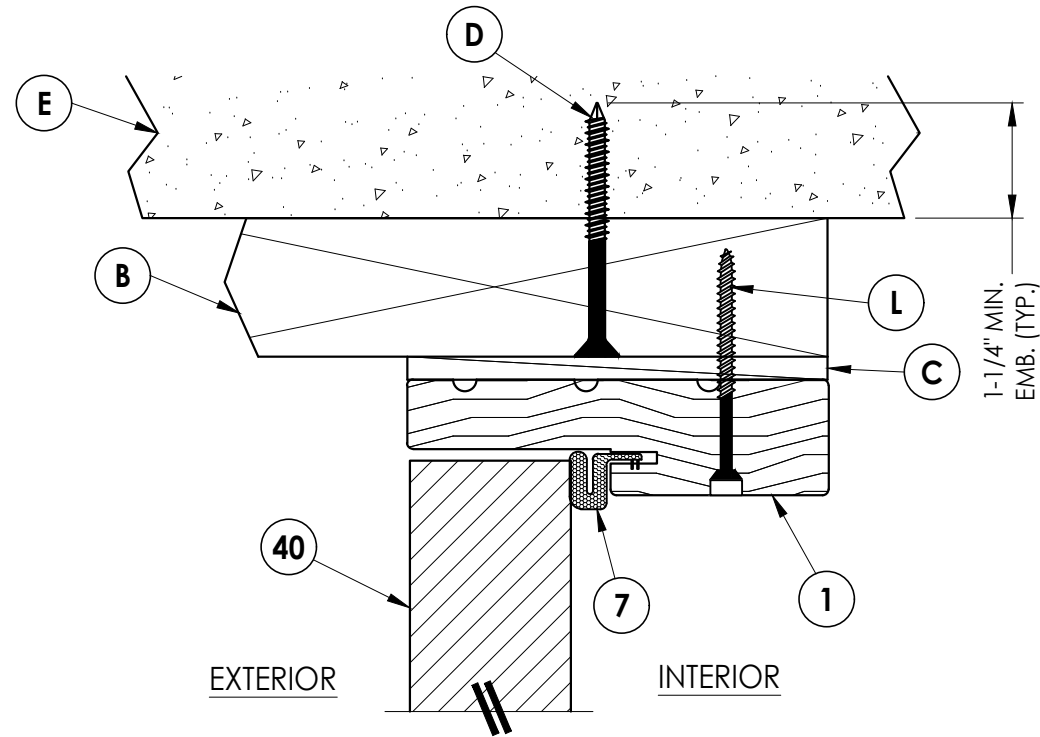
ELEVATIONS

RR BUILDING CONSULTANTS, INC.
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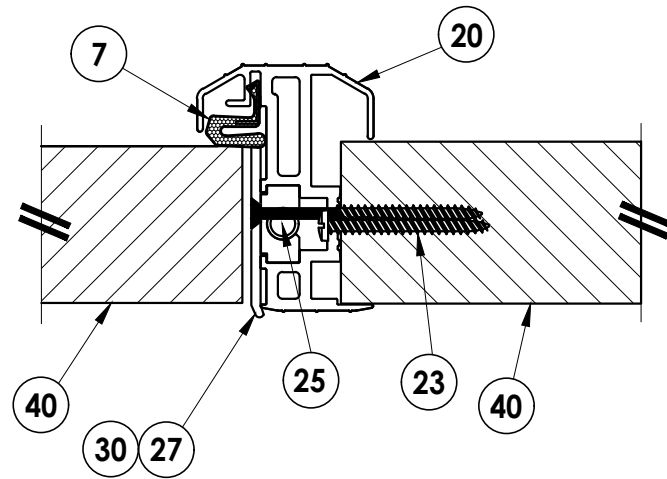
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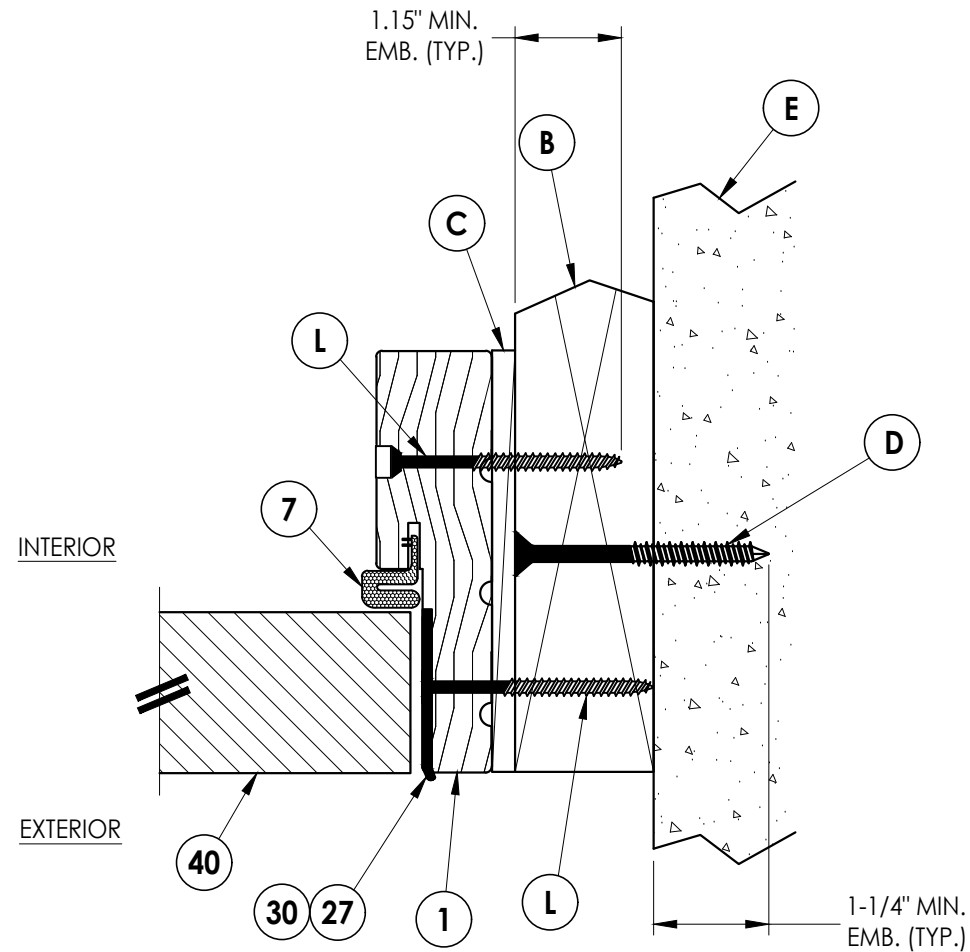
2 **HORIZONTAL CROSS SECTION**
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



4 **HORIZONTAL CROSS SECTION**
4 Outswing shown (Inswing similar)

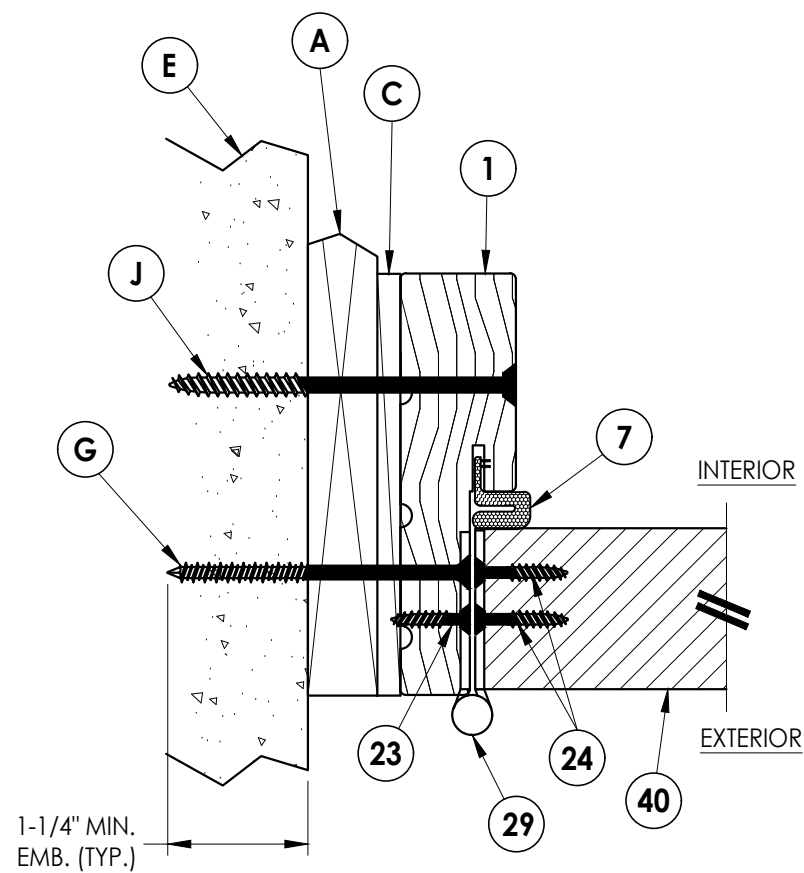


3 **HORIZONTAL CROSS SECTION**
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
NO.	DATE	REVISIONS	
		LFS	BY
2	7/27/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/15/20	UPDATE TO 7th ED (2020) FBC	LFS
DATE: 2/21/19			
SCALE: N.T.S.			
DWG. BY: MT			
CHK. BY: LFS			
DRAWING NO.: FL-28897.13			
SHEET 4 OF 12			

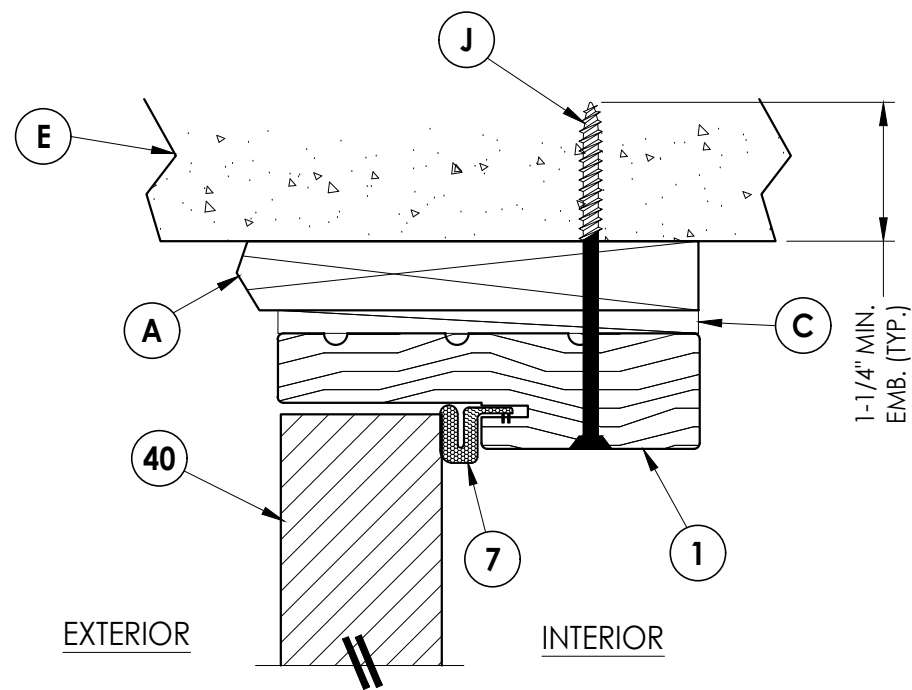
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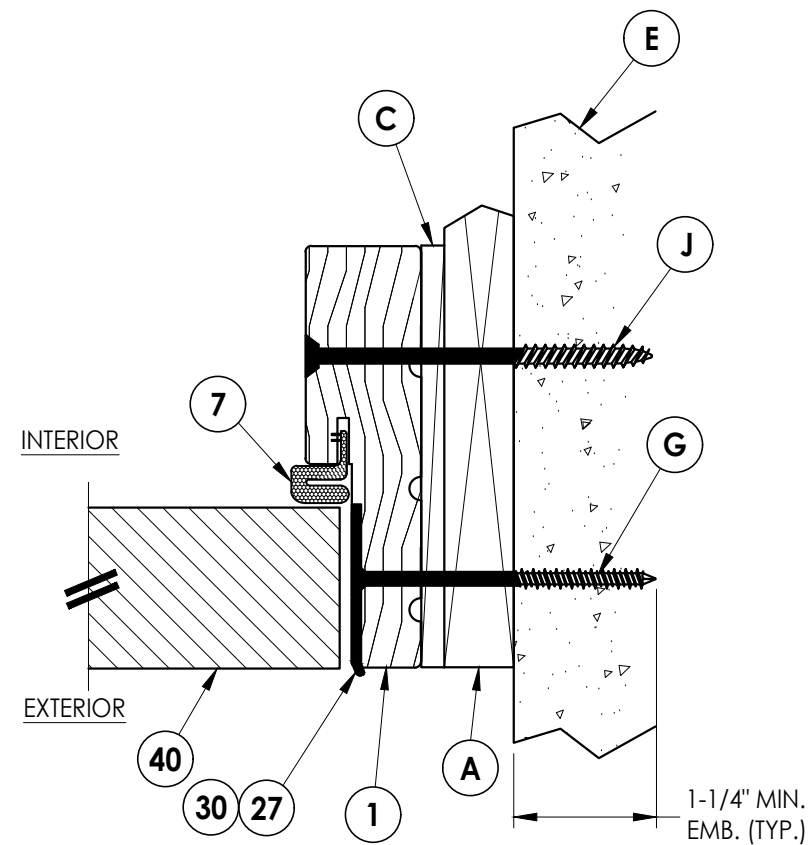


2 HORIZONTAL CROSS SECTION

5 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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

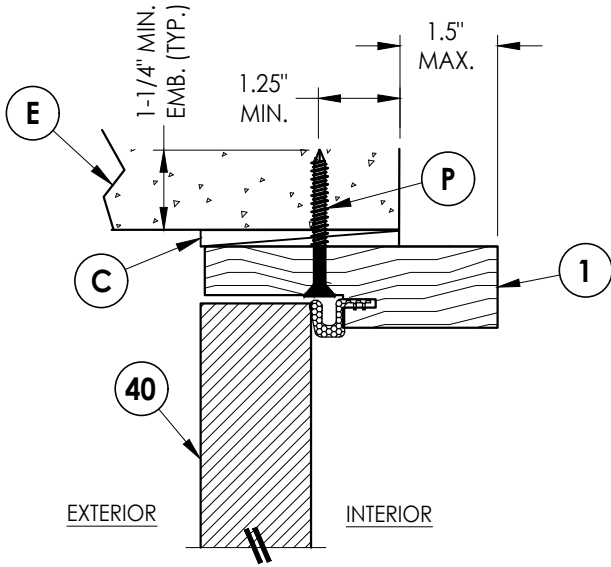


3 5 **HORIZONTAL CROSS SECTION**

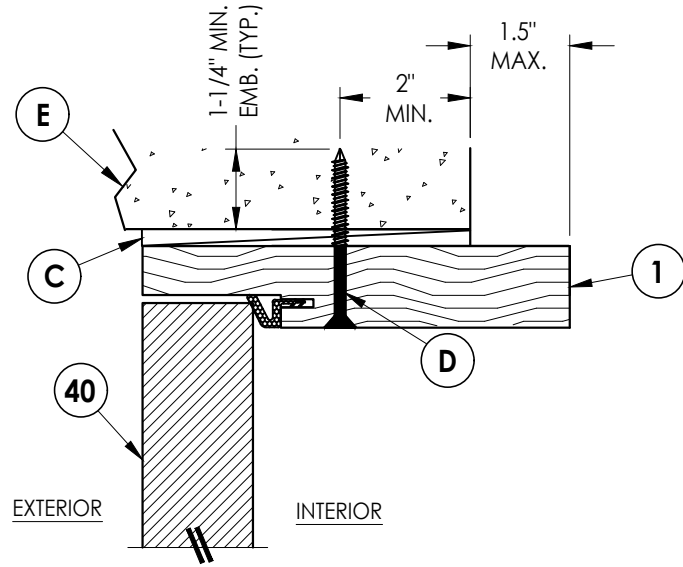
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

DATE: 2/21/19		DRAWING NO.: FL-28897.13		SHEET 5 OF 12			
SCALE: N.T.S.		CHK. BY: LFS		DWG. BY: MT			
NO.		DATE		REVISIONS			
2		7/27/23		UPDATE TO 8TH ED. (2023) FBC		LFS	
1		7/15/20		UPDATE TO 7th ED (2020) FBC		LFS	
PRODUCT:		THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
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	

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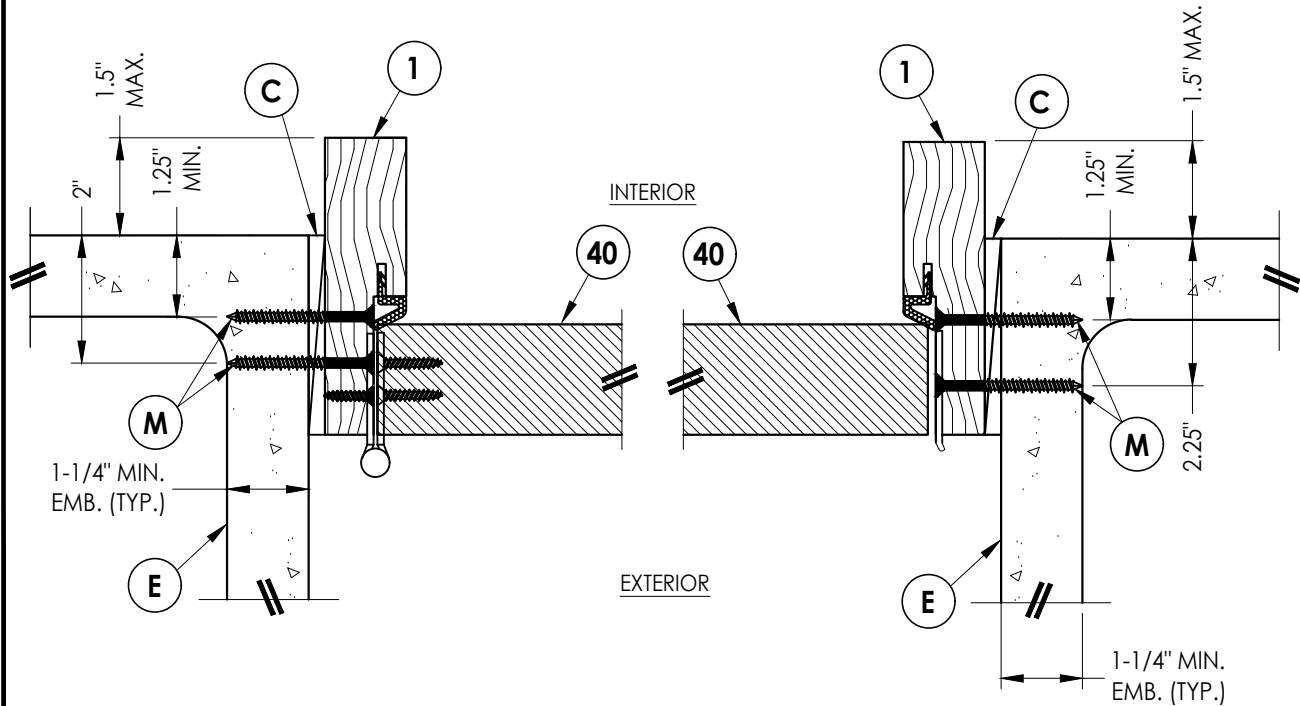


1/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



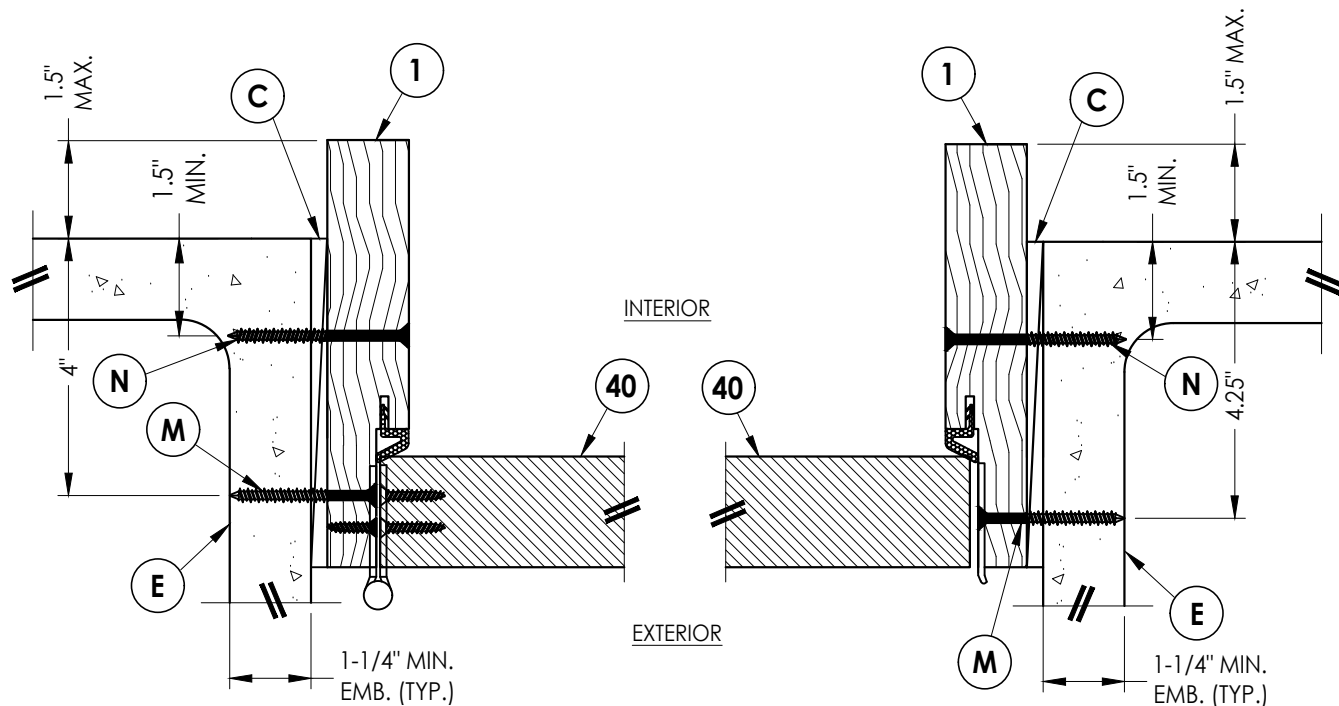
4/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 55 PSF
w/ SECURITY STRIKE = ± 65 PSF



2/6 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

3/6 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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

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

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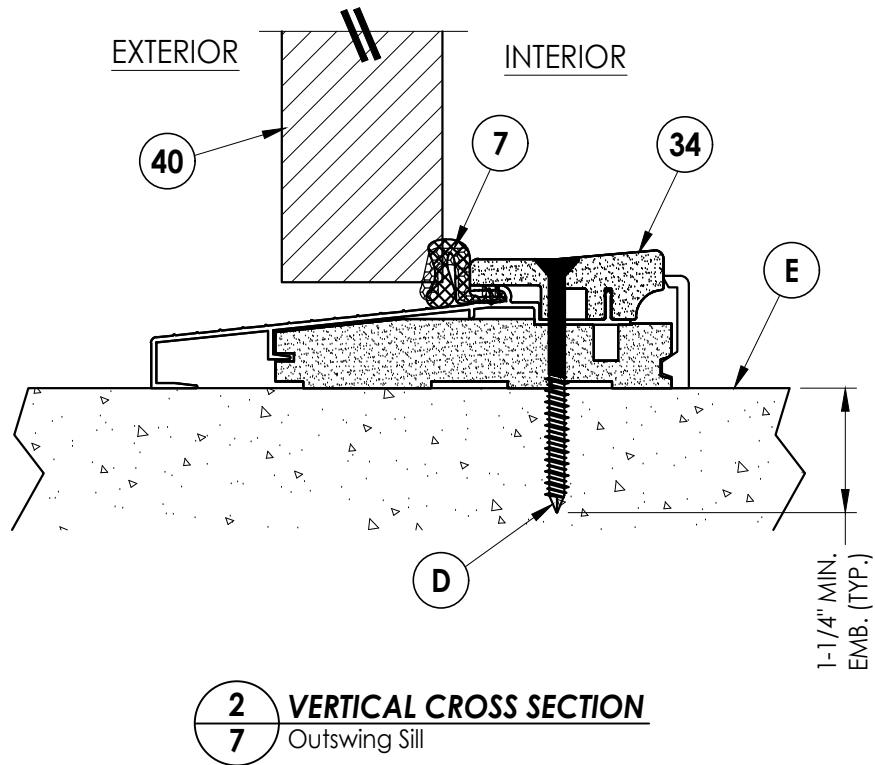
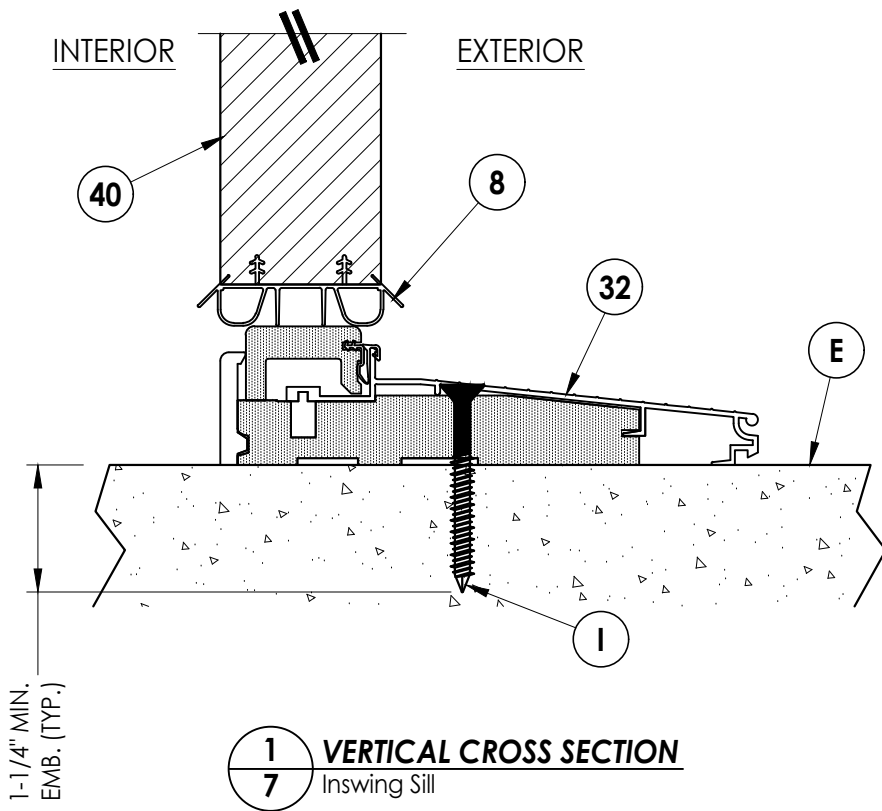
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
2	7/27/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 2/21/19
SCALE: N.T.S.
DWG. BY: MT
CHK. BY: LFS
DRAWING NO.: FL-28897.13
SHEET 6 OF 12

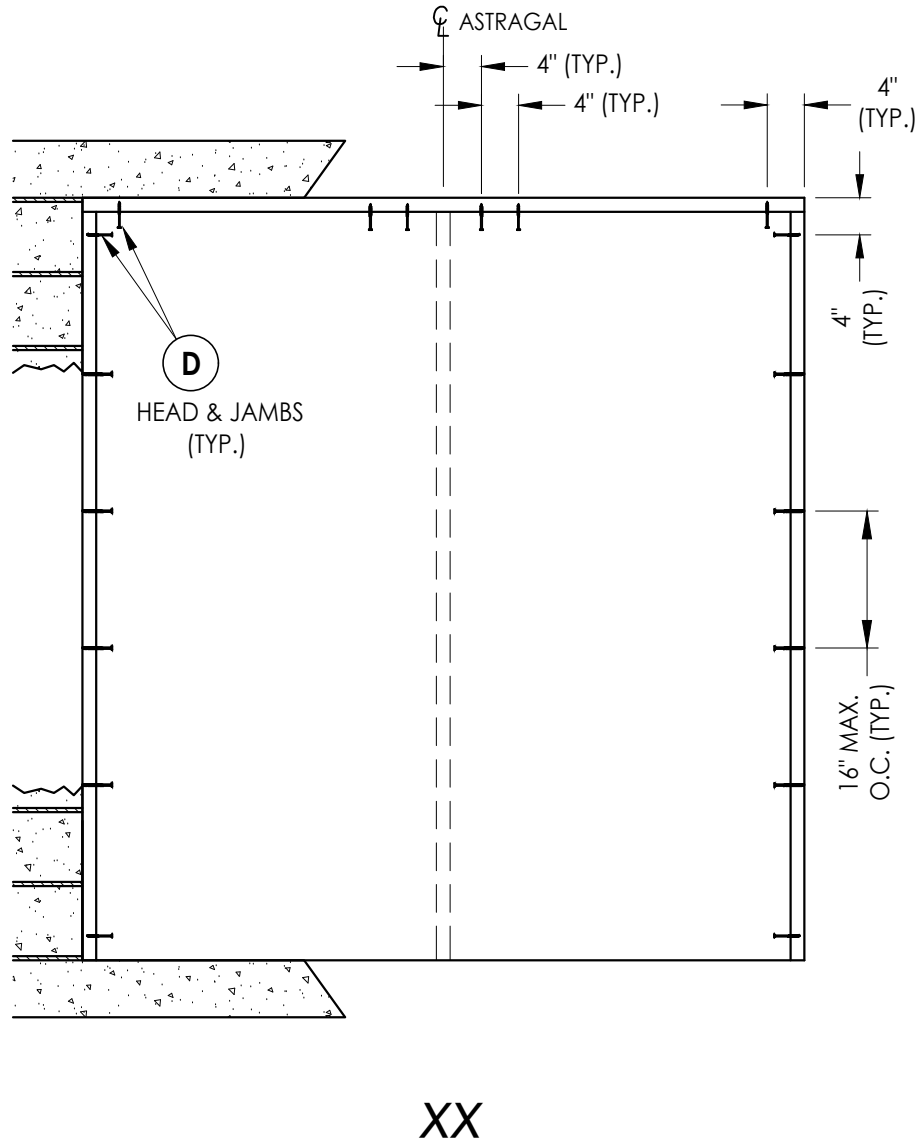
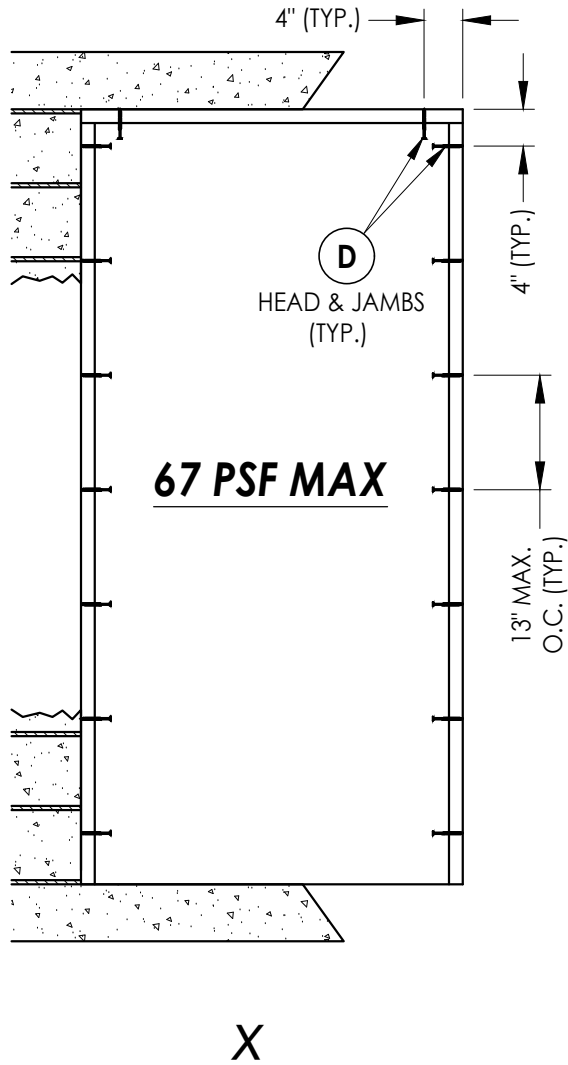
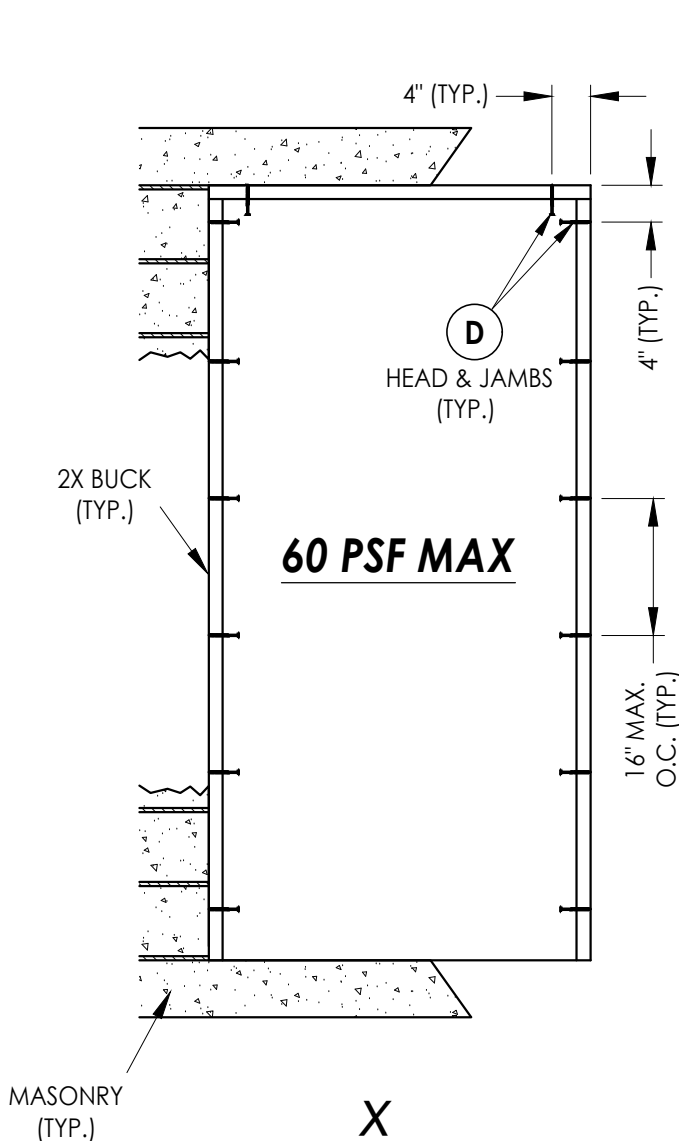
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2X BUCK ANCHORING

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: BUCK & FRAME ANCHORING					
				LFS	FBC	UPDATE TO 8TH ED. (2023)	
				LFS	FBC	UPDATE TO 7th ED (2020)	
				BY		DATE	
REVISIONS							
DATE: 2/21/19							
SCALE: N.T.S.							
DWG. BY: MT							
CHK. BY: LFS							
DRAWING NO.: FL-28897.13							
SHEET 8 OF 12							

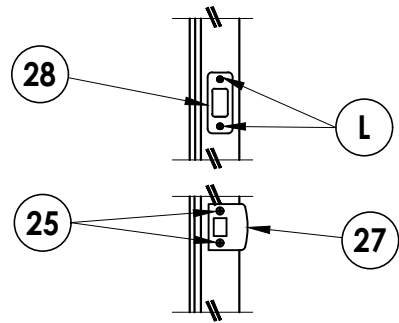
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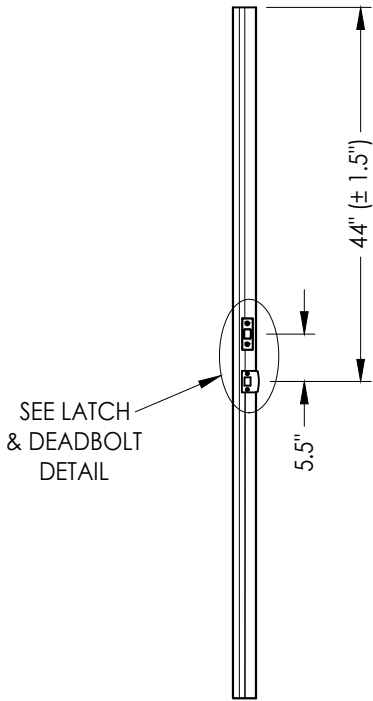
FRAME ANCHORING



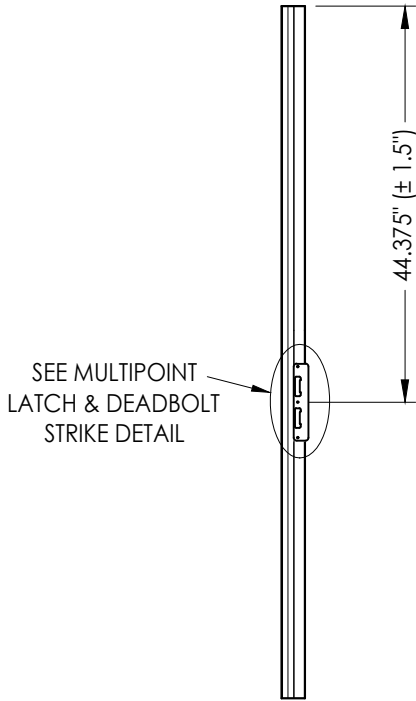
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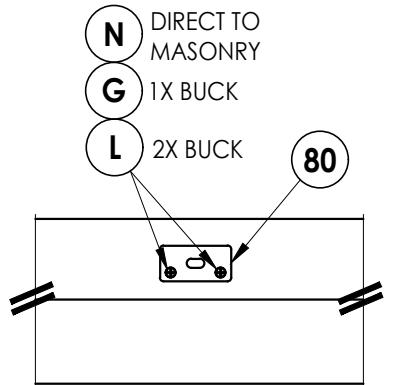
LATCH & DEADBOLT DETAIL
Schlage / Kwikset



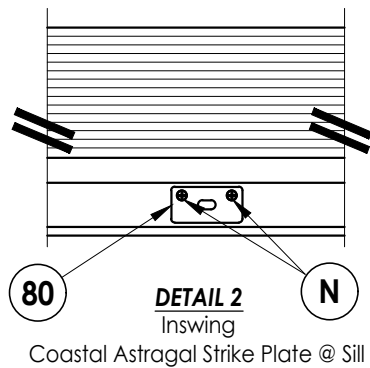
ASTRAGAL
Latch and Deadbolt



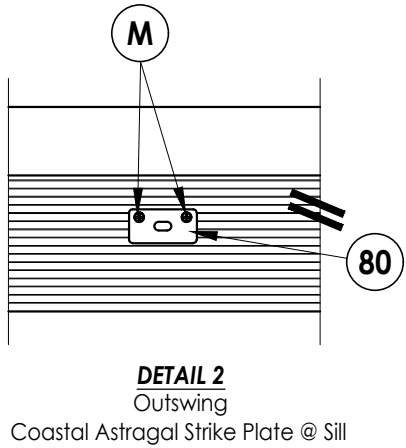
ASTRAGAL
Multipoint Lock



DETAIL 1
Coastal Astragal Strike Plate @ Head

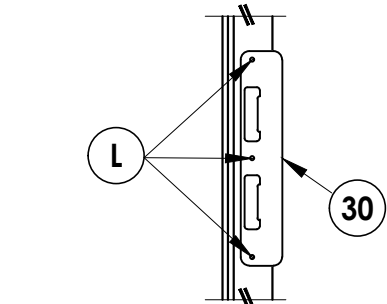


DETAIL 2
Inswing
Coastal Astragal Strike Plate @ Sill

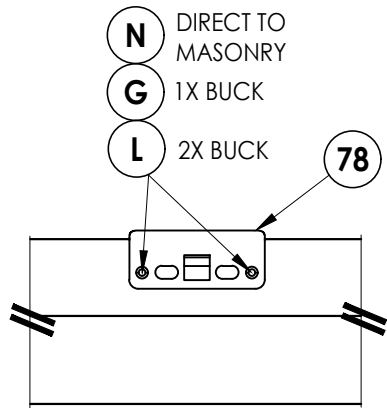


DETAIL 2
Outswing
Coastal Astragal Strike Plate @ Sill

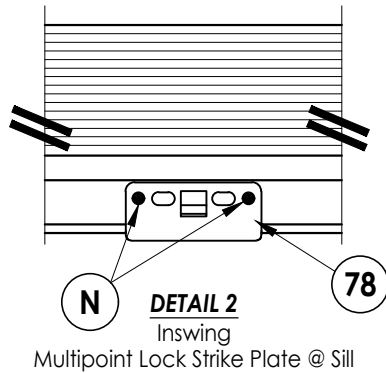
LATCH & DEADBOLT STRIKE DETAILS



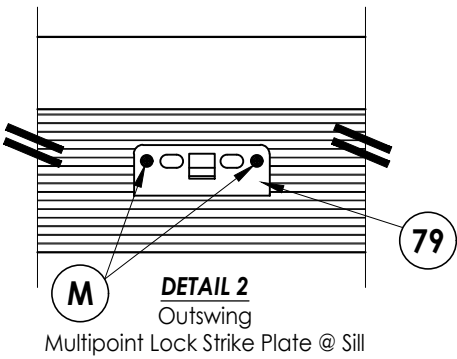
MULTIPOINT LATCH & DEADBOLT STRIKE DETAIL



DETAIL 1
Multipoint Lock Strike Plate @ Head



DETAIL 2
Inswing
Multipoint Lock Strike Plate @ Sill



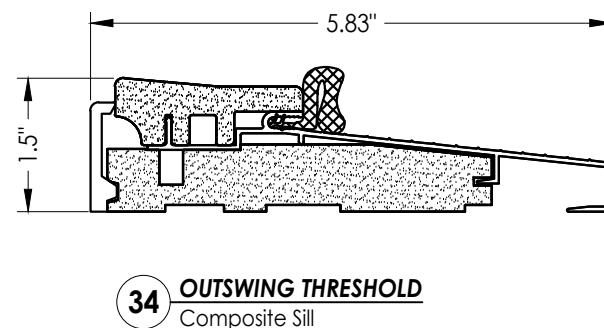
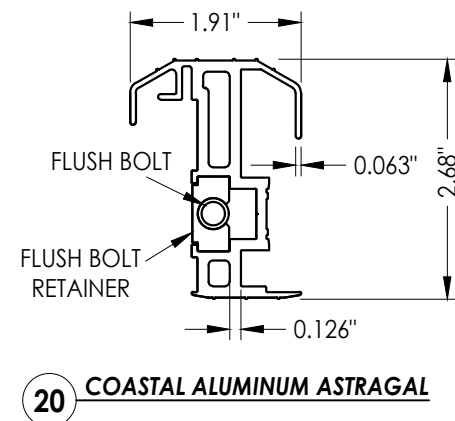
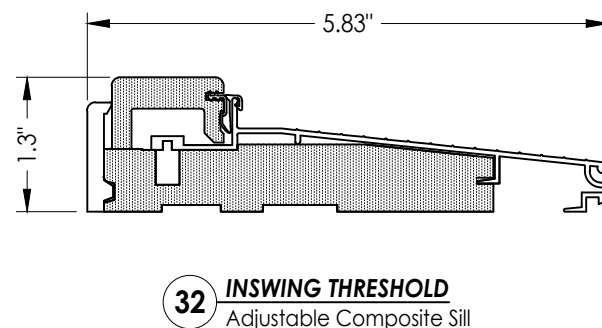
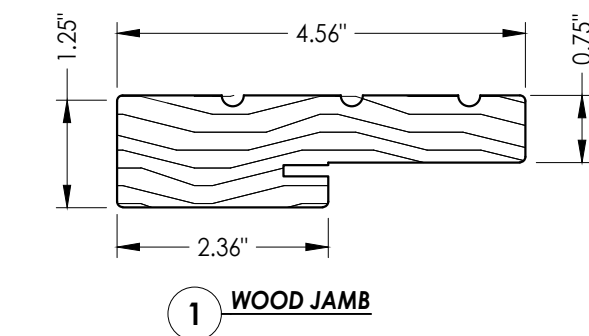
DETAIL 2
Outswing
Multipoint Lock Strike Plate @ Sill

MULTIPOINT LOCK STRIKE DETAILS

HARDWARE DETAILS
(XX)

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HARDWARE DETAILS (XX)	
		LFS	BY
		FBC	FBC
2	7/27/23	UPDATE TO 8TH ED. (2023)	
1	7/15/20	UPDATE TO 7th ED (2020)	
NO.	DATE		
REVISIONS			
DATE: 02/21/19			
SCALE: N.T.S.			
DWG. BY: MT			
CHK. BY: LFS			
DRAWING NO.: FL-28897.9			
SHEET 11 OF 12			

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	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
G	3/16" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL
I	1/4" X 2-1/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
P	1/4" X 2-3/4" PFH ELCO CONCRETE SCREW	STEEL
1	JAMB (FINGER JOINT PINE)	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
20	COASTAL ALUMINUM ASTRAGAL	ALUM
22	#8 X 3/4" PFH WOOD SCREW	STEEL
23	#10 X 3/4" PPH WOOD SCREW	STEEL
24	#10 X 1" PFH WOOD SCREW	STEEL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
28B	DEADBOLT SECURITY STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
30	MULTIPOINT LOCK STRIKE PLATE	STEEL
31	MULTIPOINT LOCK TONGUE STRIKE PLATE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
34	OUTSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL	-
78	MULTIPOINT LOCK STRIKE PLATE @ HEAD	STEEL
79	MULTIPOINT LOCK STRIKE PLATE @ SILL	STEEL
80	COASTAL ASTRAGAL STRIKE PLATE	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"
ELCO 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.

DATE: 2/21/19		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		THERMA-TRU		Lyndon F. Schmidt	
DWG. BY: MT		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 FBPF Registry No. 9813	
DRAWING NO.: FL-28897.13		BILL OF MATERIALS			
SHEET 12 OF 12		AND COMPONENTS			
2 7/27/23 UPDATE TO 8TH ED. (2023) FBC LFS					
1 7/15/20 UPDATE TO 7th ED (2020) FBC LFS					
NO. DATE		BY			
		REVISONS			