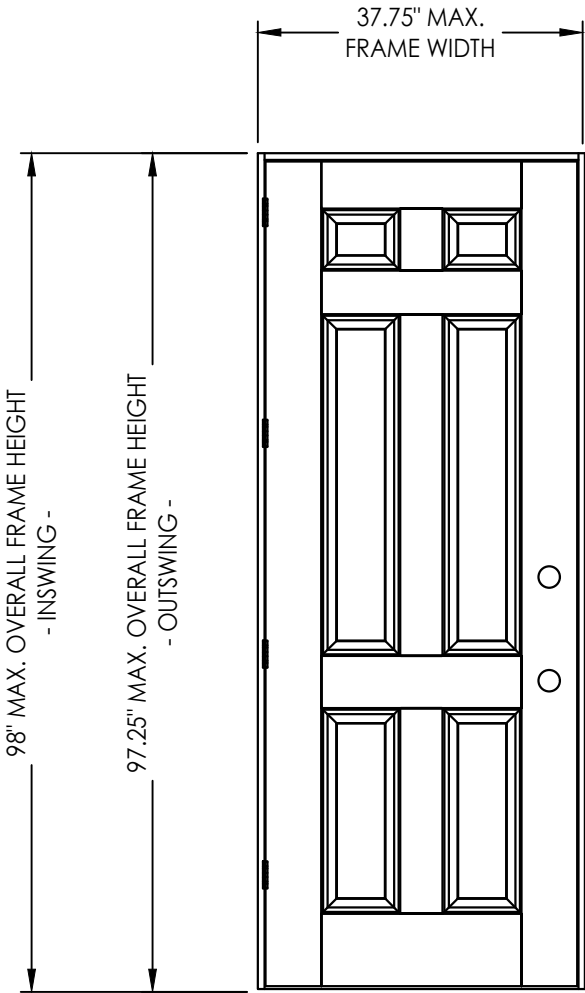


WOOD EDGE
OPAQUE FIBERGLASS SINGLE DOOR
INSWING/OUTSWING
"IMPACT"

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 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.
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	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 & Frame Anchoring
9	Hardware Details
10	Components
11	Bill of Materials



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

See Sheet 3 for Hardware Specifications

Digitally signed
by Lyndon F Schmidt
Date: 2023.07.17 17:05:54 -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.

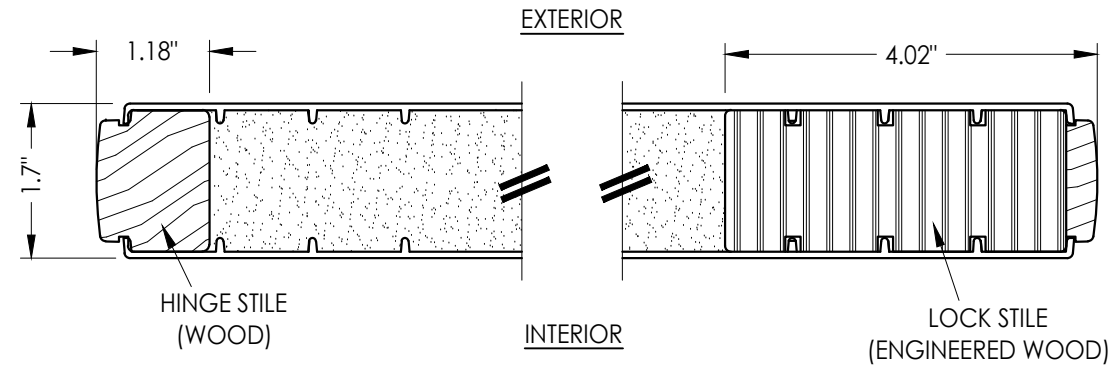
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC
4	7/14/20	UPDATE TO 7th ED (2020)	FBC
3	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
2	12/03/17	RECESSED PANEL NOTATION	JK
1	7/17/19	UPDATE TO 6th ED (2017)	FBC
NO.	DATE	BY	
REVISIONS			
DATE: 4/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-17540.3			
SHEET 1 OF 11			

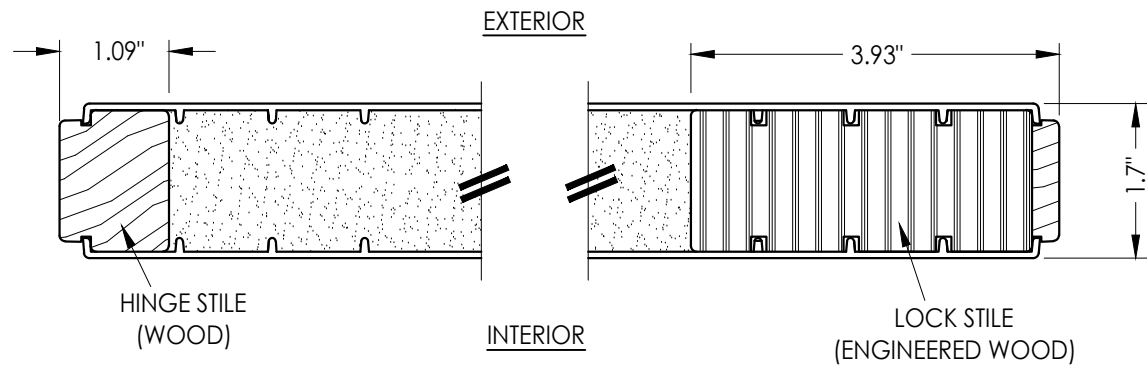
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

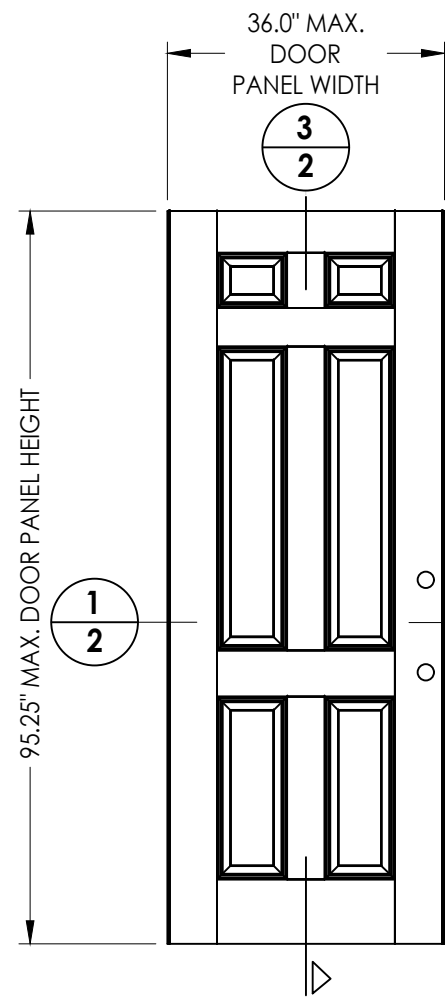
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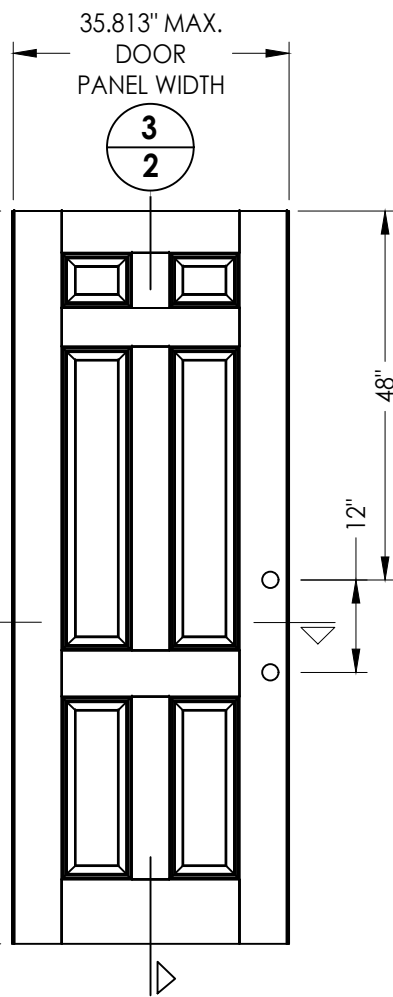
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2 **HORIZONTAL CROSS SECTION**



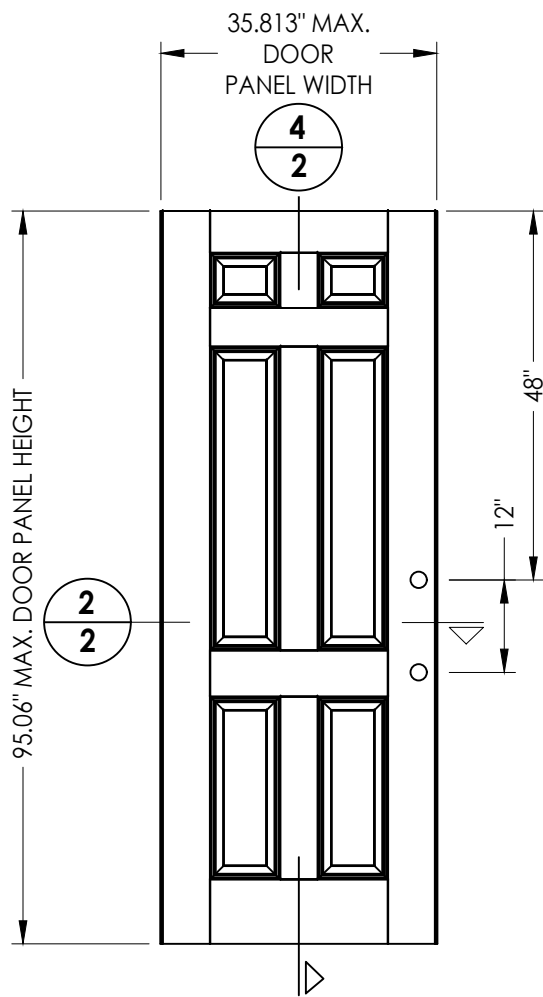
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2 **HORIZONTAL CROSS SECTION**



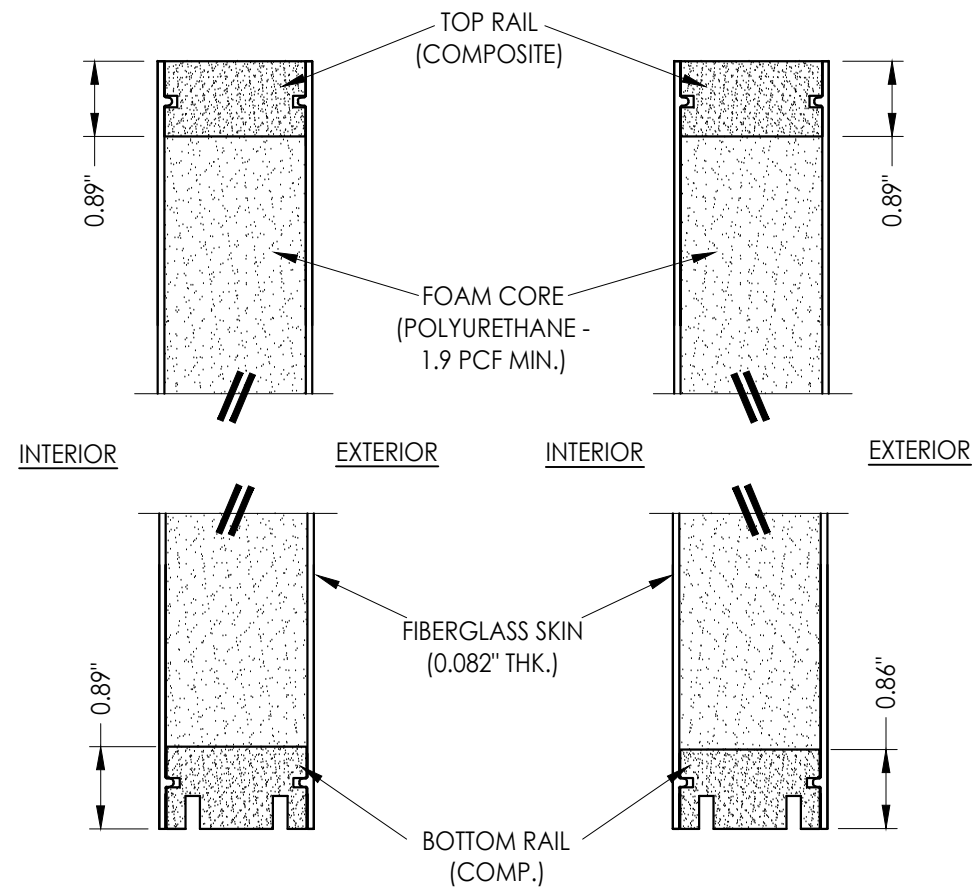
40 **DOOR PANEL**
BOOK



41 **DOOR PANEL**
Hybrid Door



42 **DOOR PANEL**
U1 Door



3
2 **VERTICAL CROSS SECTION**

4
2 **VERTICAL CROSS SECTION**

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

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
5	7/17/23	UPDATE TO 8TH ED. (2023) FBC
4	7/14/20	UPDATE TO 7th ED (2020) FBC
3	10/08/18	REV. DOOR PANEL OPTION NOTE
2	12/03/17	RECESSED PANEL NOTATION
1	7/17/19	UPDATE TO 6th ED (2017) FBC
NO.	DATE	BY

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

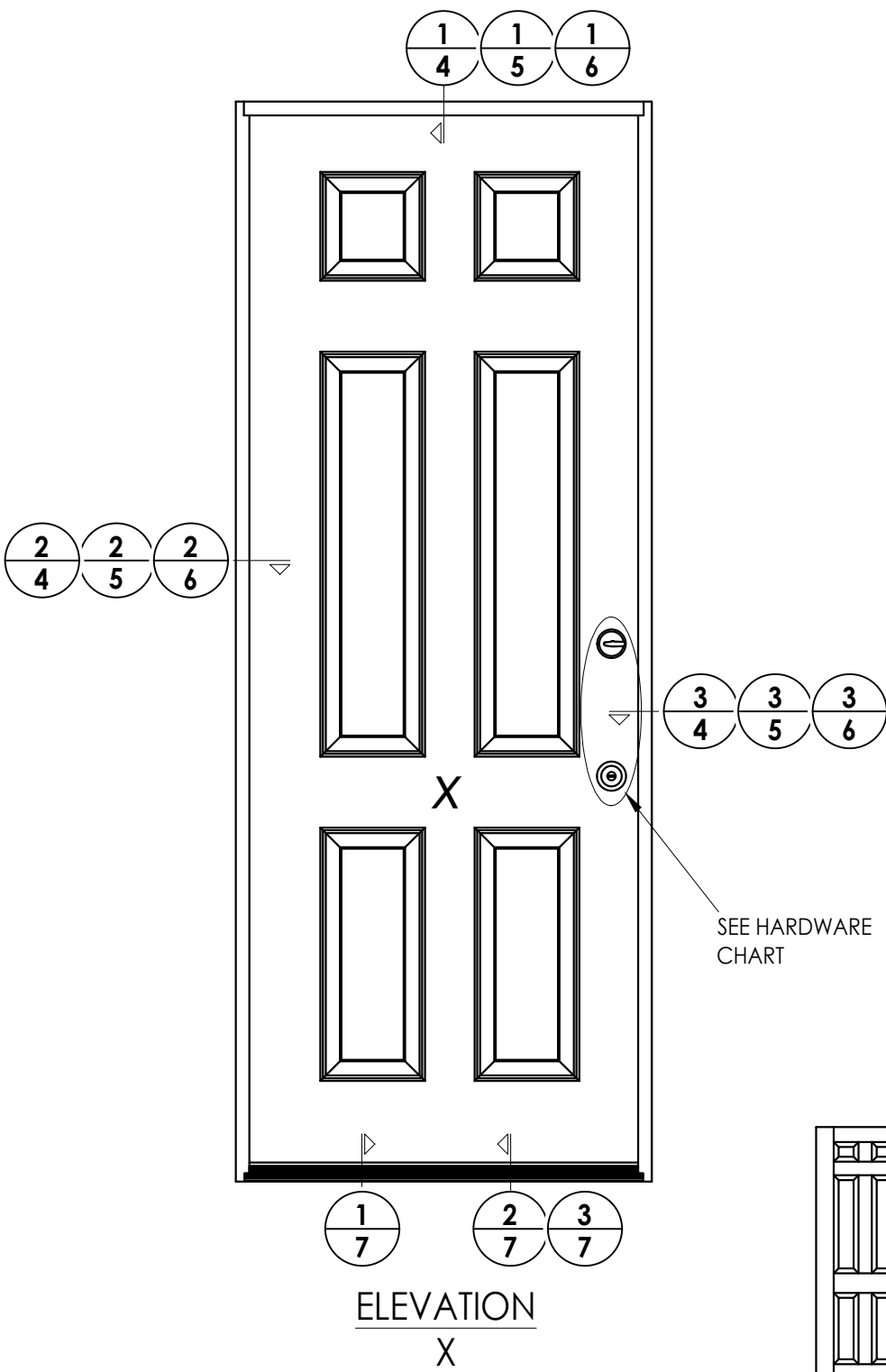
CHK. BY: LFS

DRAWING NO.:

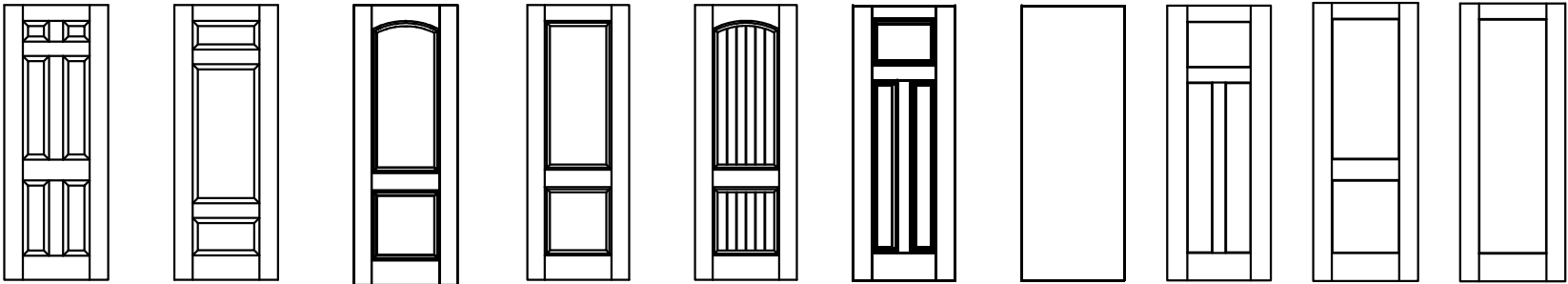
FL-17540.3

SHEET 2 OF 11

Z:\2023 FBC Drawings\Therma-Tru\FL-17540 R6\FL-17540.1-4.dwg



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 opaque panel configurations are allowed.
Panels shown are for illustration and are representative only.

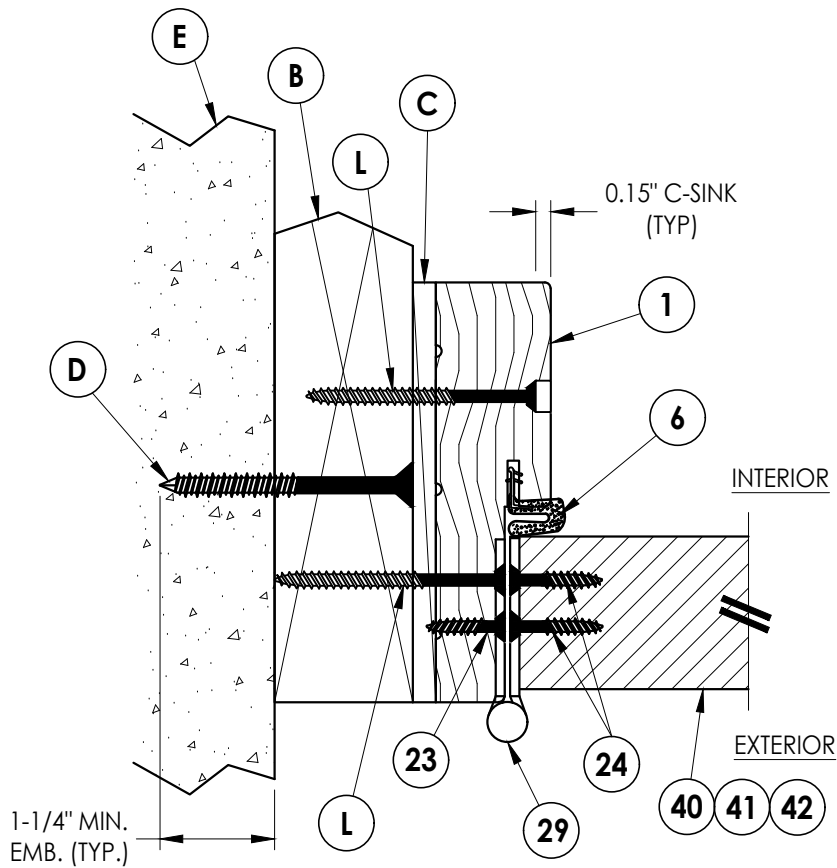
Documents Prepared By:
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Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
	PART OR ASSEMBLY:
ELEVATIONS	

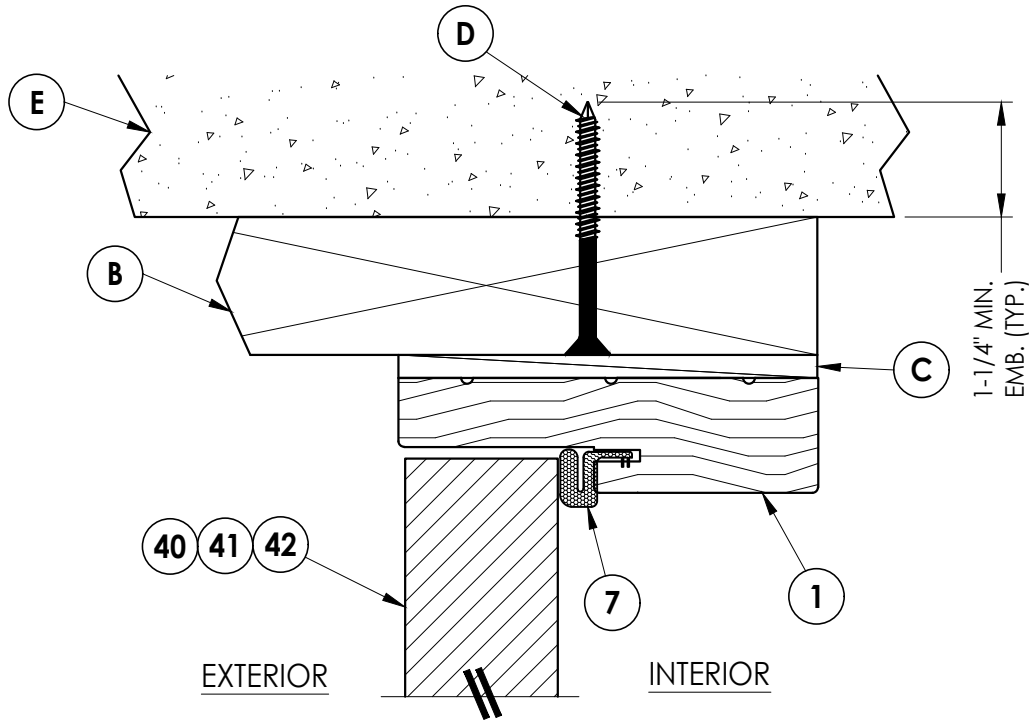
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	3	10/08/18	REV. DOOR PANEL OPTION	NOTE	MT
	2	12/03/17	RECESSED PANEL NOTATION		JK
	1	7/17/19	UPDATE TO 6th ED (2017)	FBC	JK
NO.		DATE	REVISIONS		
			BY		

DATE:	4/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17540.3
SHEET	3 OF 11

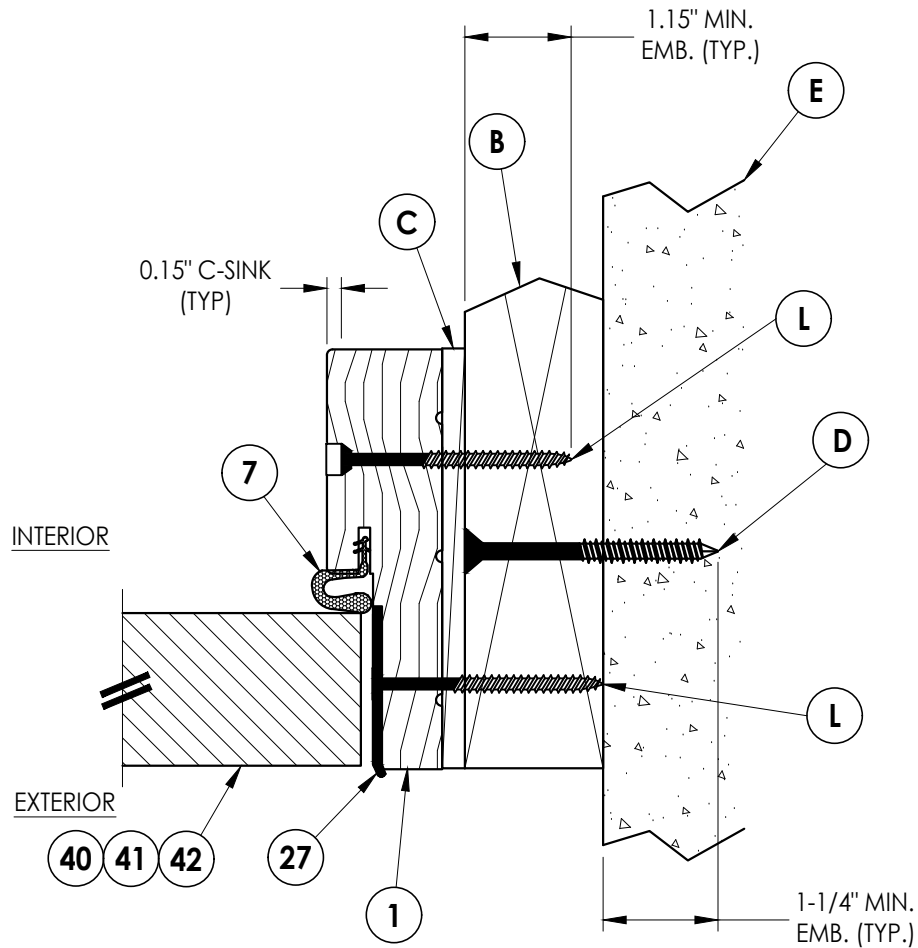
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2 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

Documents Prepared By:

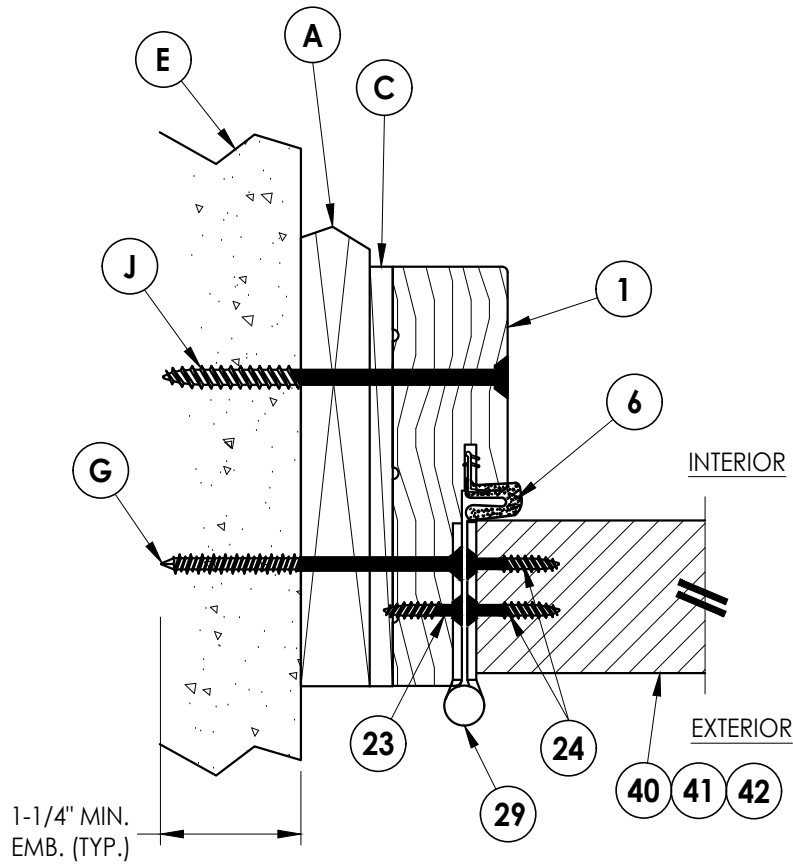
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Phone No.: 813.659.9197
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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

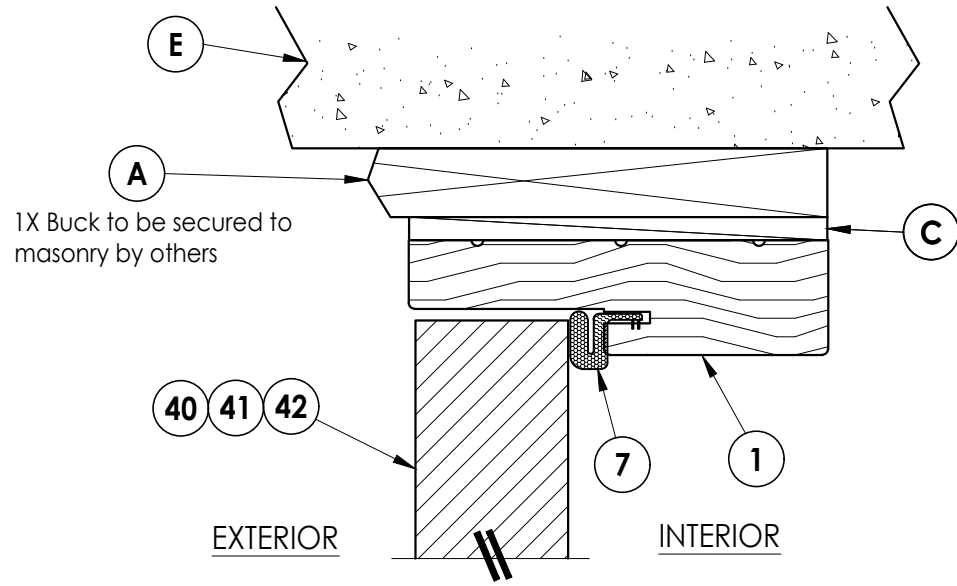
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS			
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4	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS	
3	10/08/18	REV. DOOR PANEL OPTION	NOTE	MT	
2	12/03/17	RECESSED PANEL NOTATION		JK	
1	7/17/19	UPDATE TO 6th ED (2017)	FBC	JK	
DATE: 4/28/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-17540.3					
SHEET 4 OF 11					

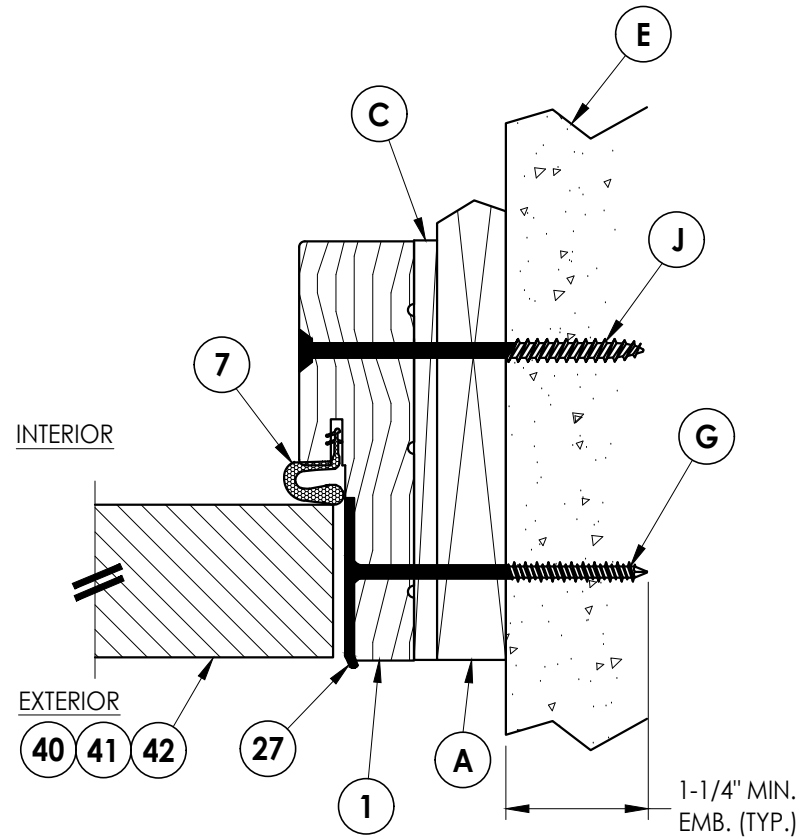
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2 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



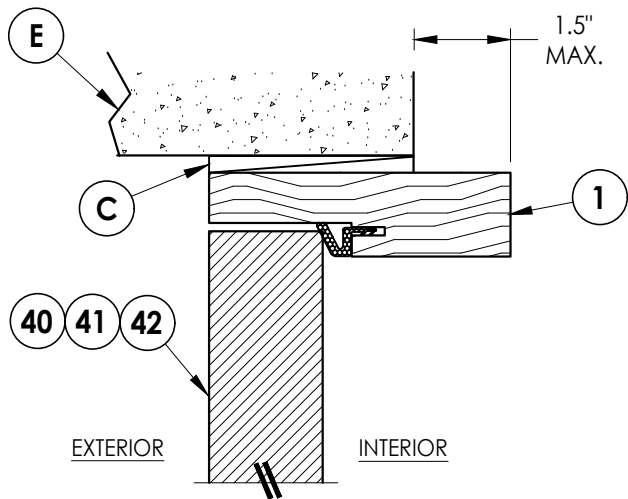
1 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



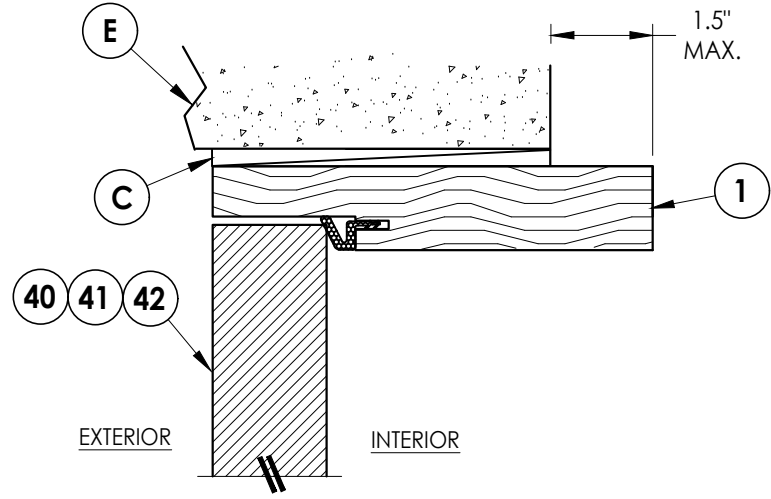
3 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

Documents Prepared By:		BUILDING CONSULTANTS, INC.	
		P.O. Box 230 Valrico FL 33595	
		Phone No.: 813.659.9197	
		Florida Board of Professional Engineers	
		Certificate Of Authorization No. 9813	
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
		REVISIONS	
		DATE	BY
5	7/17/23	UPDATE TO 8TH ED. (2023) FBC	LFS
4	7/14/20	UPDATE TO 7th ED (2020) FBC	LFS
3	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
2	12/03/17	RECESSED PANEL NOTATION	JK
1	7/17/19	UPDATE TO 6th ED (2017) FBC	JK
DATE:		4/28/15	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-17540.3	
SHEET		5	OF 11

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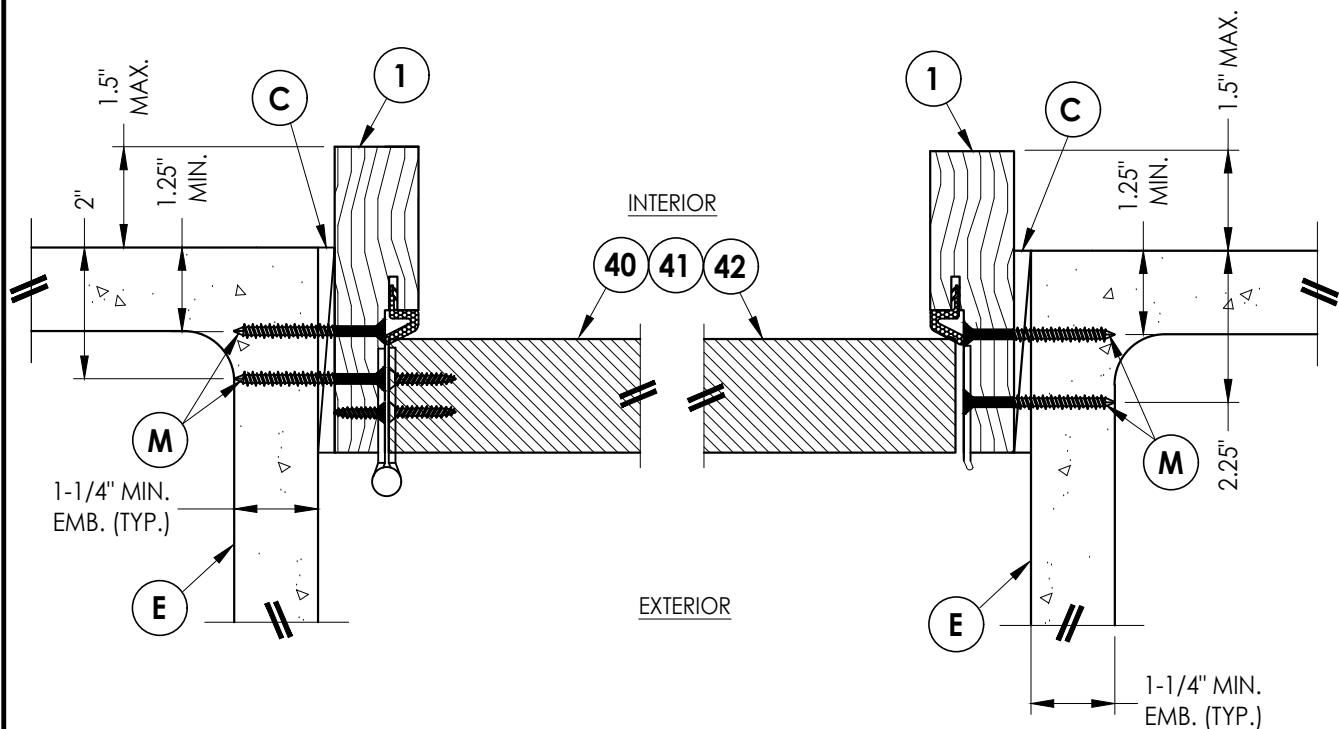


1 **VERTICAL CROSS SECTION**
6 Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

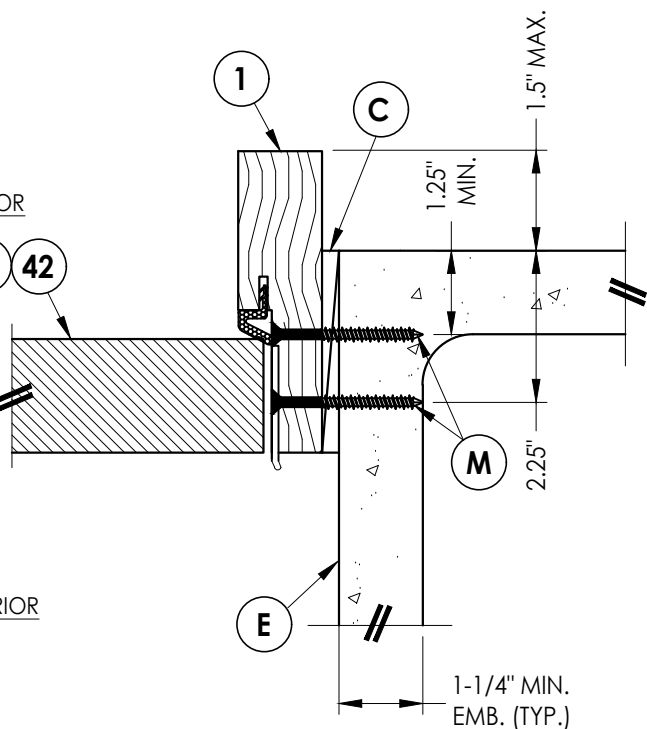


4 **VERTICAL CROSS SECTION**
6 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

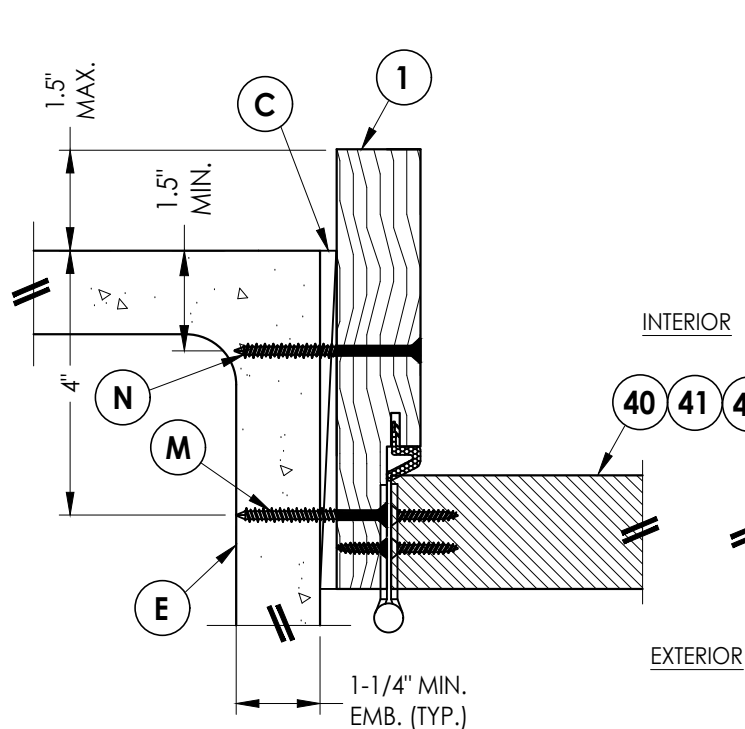
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 47 PSF
w/ SECURITY STRIKE = ± 55 PSF



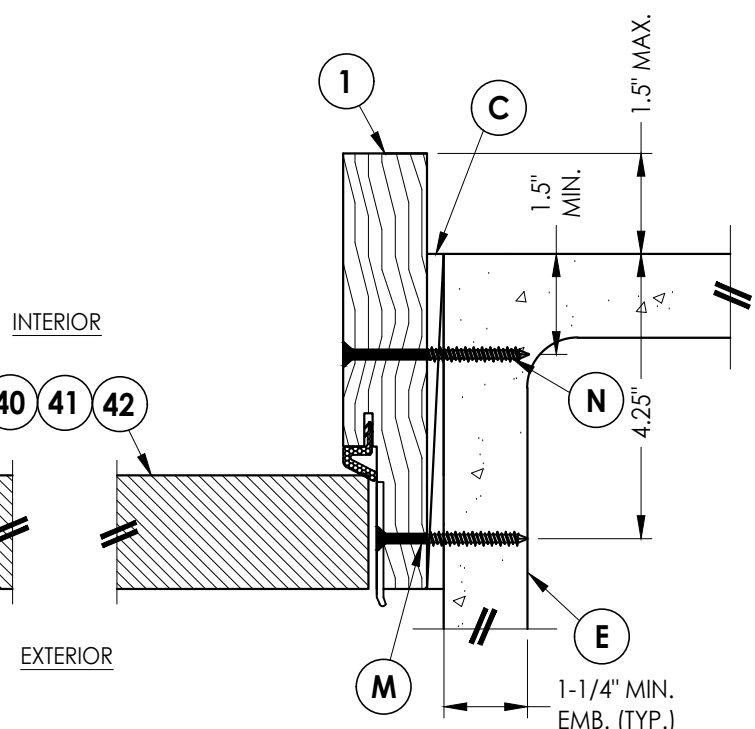
2 **HORIZONTAL CROSS SECTION**
6 Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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



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



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

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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

		LFS	FBC	FBC	MT	JK	JK	BY
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC					
4	7/14/20	UPDATE TO 7th ED (2020)	FBC					
3	10/08/18	REV. DOOR PANEL OPTION NOTE						
2	12/03/17	RECESSED PANEL NOTATION						
1	7/17/19	UPDATE TO 6th ED (2017)	FBC					
NO.	DATE	REVISIONS						

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17540.3

SHEET 6 OF 11

1. Sill Item #'s 32, 38, 39, 43, 44, 45, 46, 47 & 48 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.

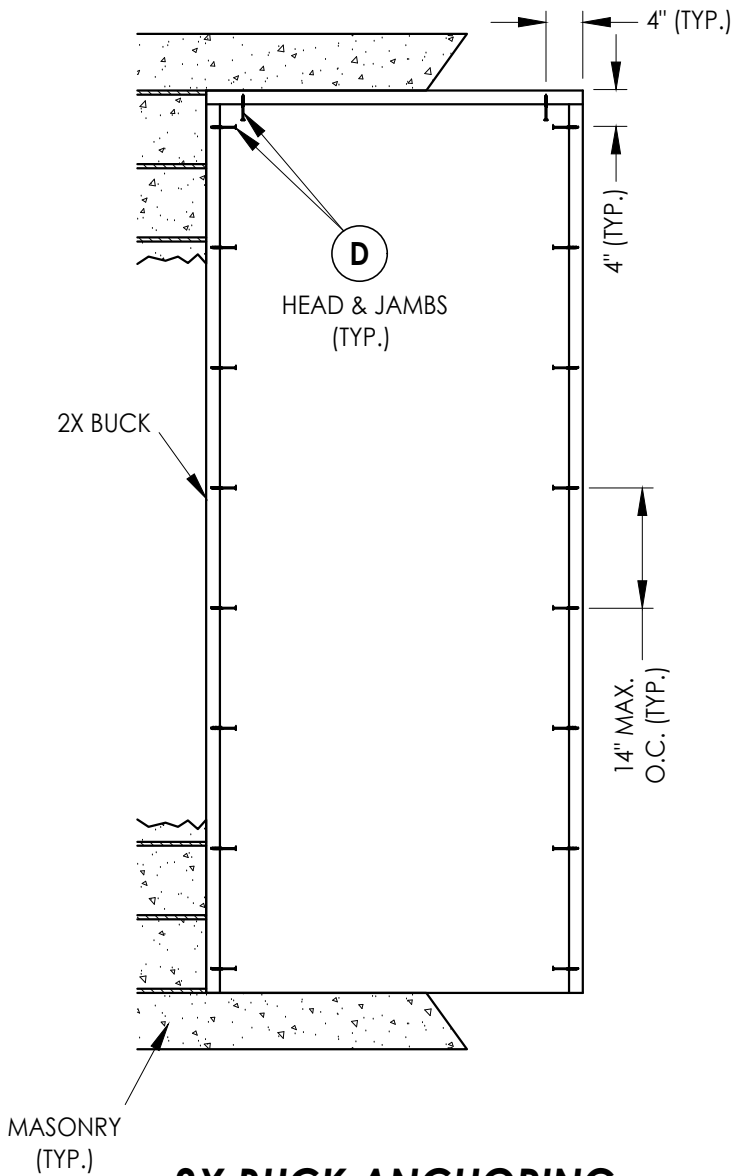


Documents Prepared By: **R²W BUILDING CONSULTANTS, INC.**
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813

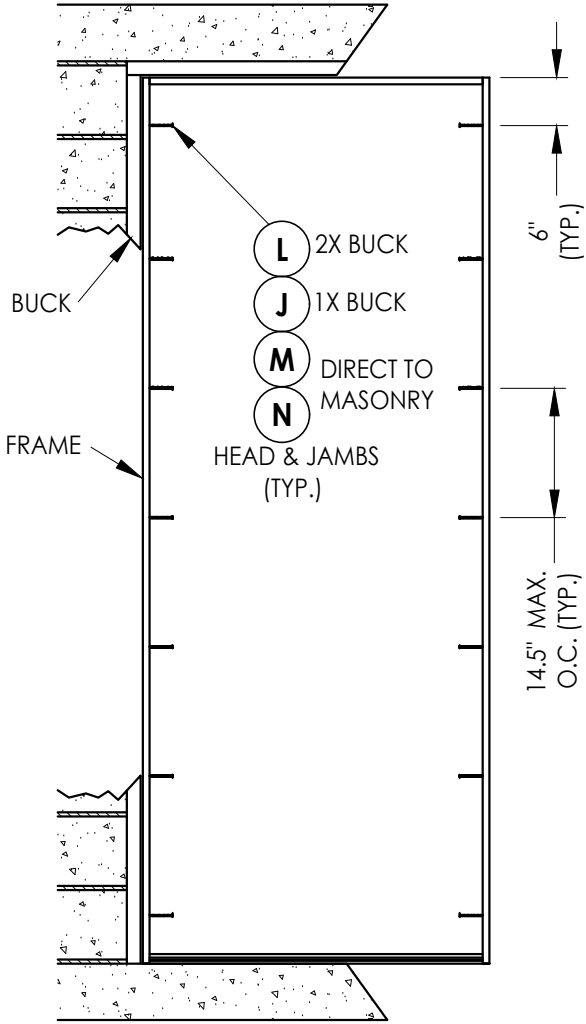
PART OR ASSEMBLY:

5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS
3	10/08/18	REV. DOOR PANEL OPTION	NOTE	MT
2	12/03/17	RECESSED PANEL NOTATION		JK
1	7/17/19	UPDATE TO 6th ED (2017)	FBC	JK
NO.	DATE			BY
				REVISIONS

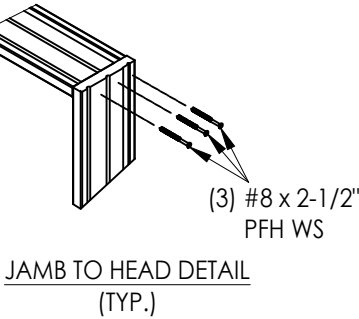
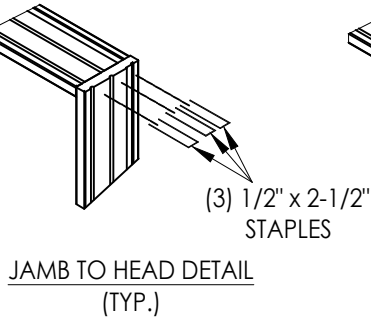
SHEET 7 OF 11



2X BUCK ANCHORING



FRAME ANCHORING



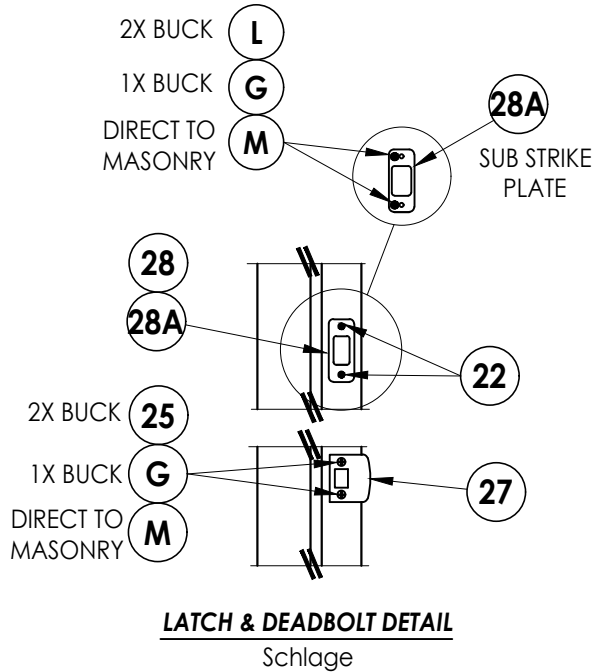
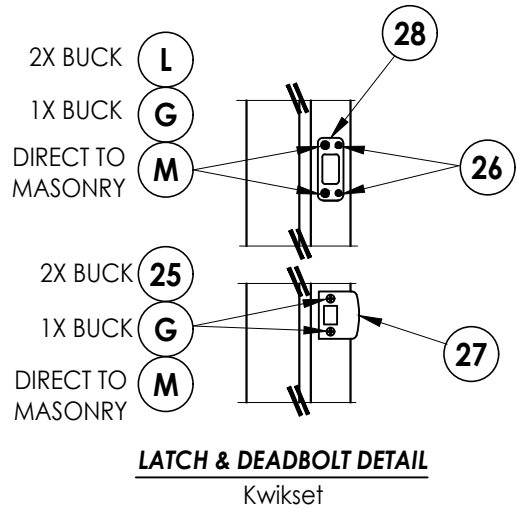
DATE:	4/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17540.3
SHEET	8 OF 11

NO.	DATE	REVISIONS
5	7/17/23	UPDATE TO 8TH ED. (2023) FBC
4	7/14/20	UPDATE TO 7th ED (2020) FBC
3	10/08/18	REV. DOOR PANEL OPTION NOTE
2	12/03/17	RECESSED PANEL NOTATION
1	7/17/19	UPDATE TO 6th ED (2017) FBC

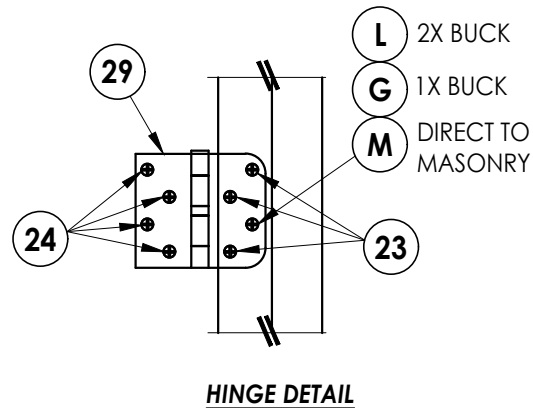
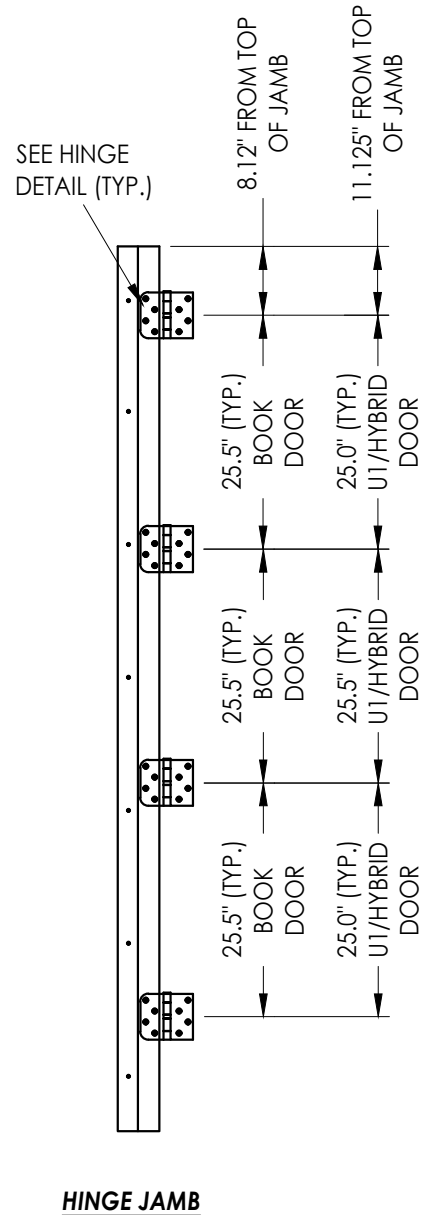
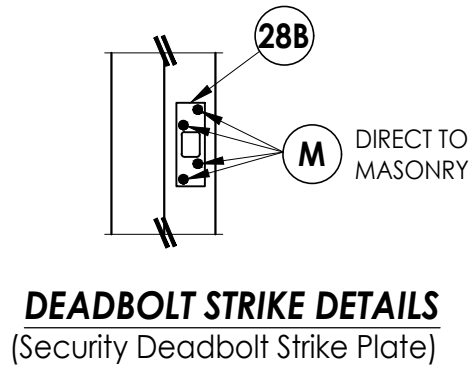
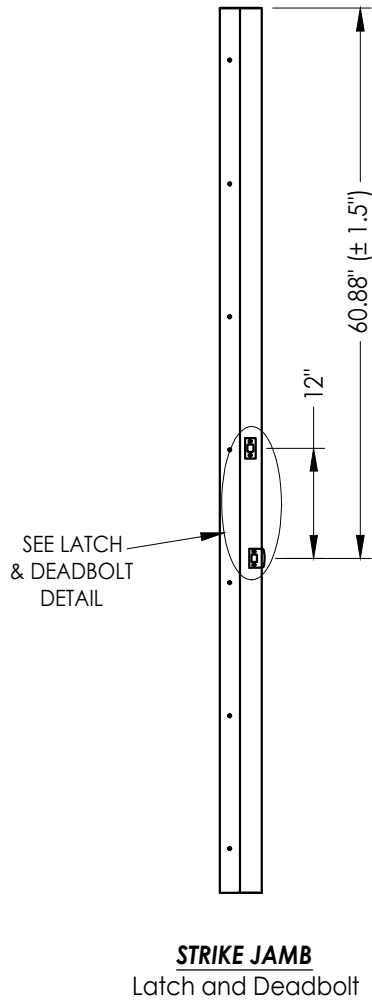
PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	BUCK AND FRAME ANCHORING

Documents Prepared By:
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LATCH & DEADBOLT STRIKE DETAILS



REVISIONS		DATE		BY	
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
4	7/14/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
3	10/08/18	REV. DOOR PANEL OPTION	NOTE	MT	
2	12/03/17	RECESSED PANEL NOTATION		JK	
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NO.	DATE				

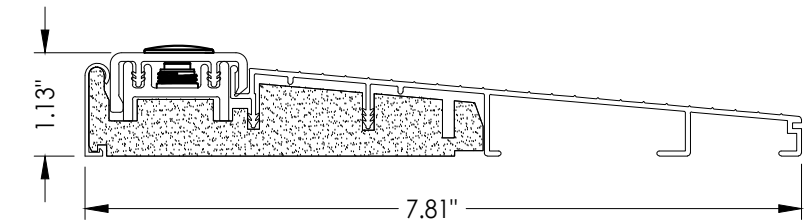
DATE: 4/28/15
SCALE: N.T.S.
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CHK. BY: LFS
DRAWING NO.: FL-17540.3
SHEET 9 OF 11

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

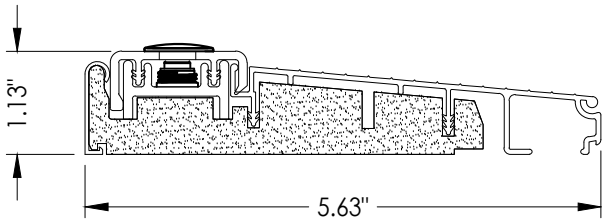
PART OR ASSEMBLY:
HARDWARE DETAILS

Documents Prepared By:
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Phone No.: 813.659.9197
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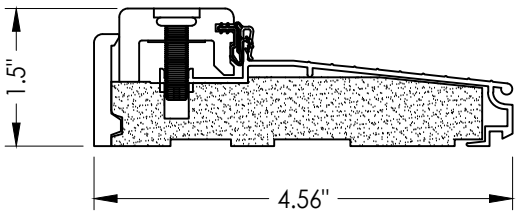
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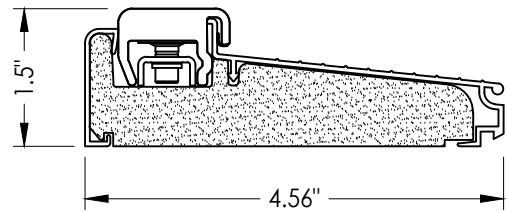
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



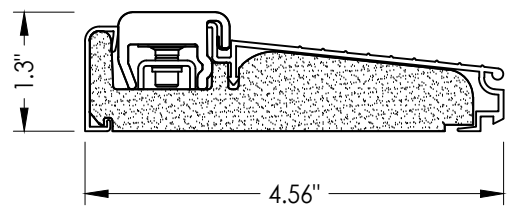
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



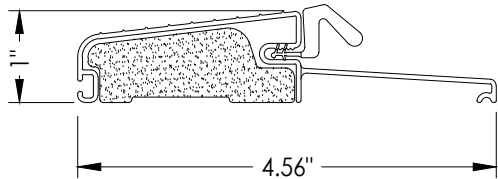
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



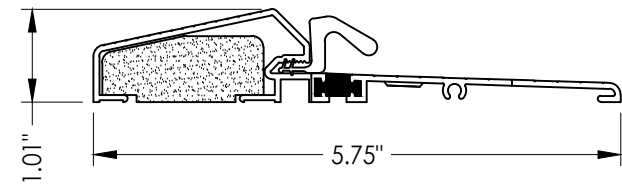
43 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



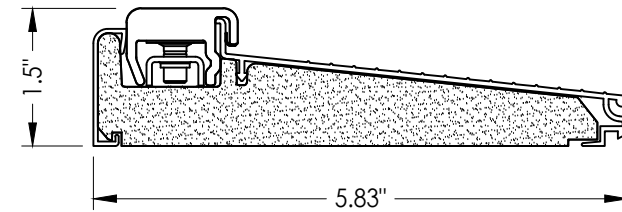
46 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



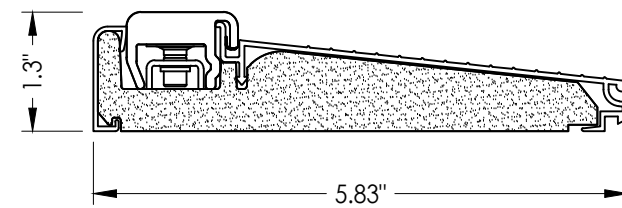
16 OUTSWING THRESHOLD
Composite Sill



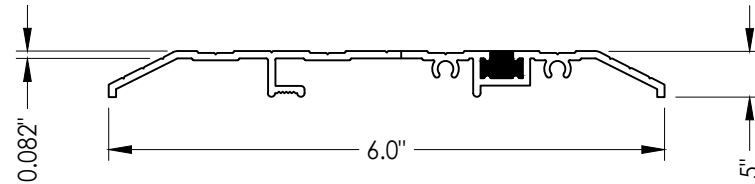
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



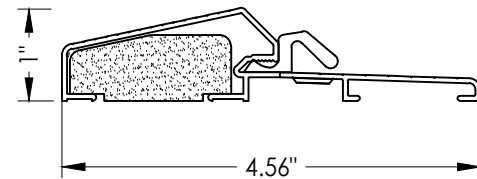
44 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



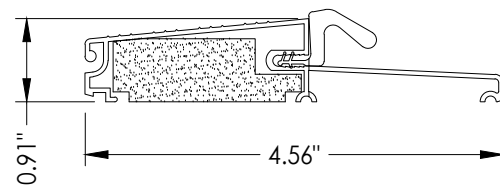
47 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



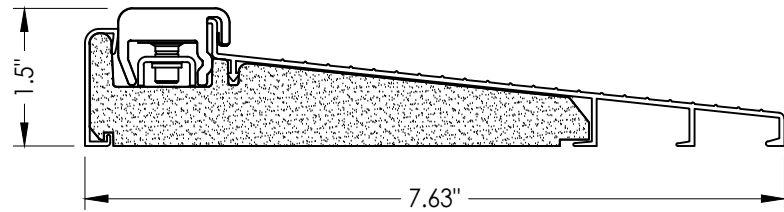
15 PUBLIC ACCESS THRESHOLD



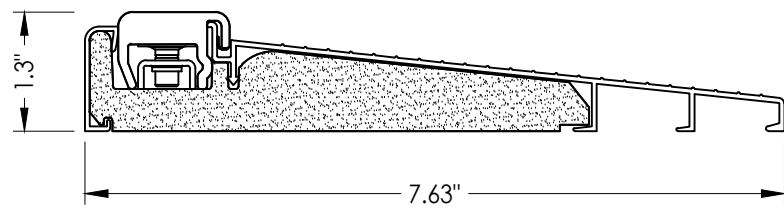
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



19 OUTSWING THRESHOLD
Composite Sill



45 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



48 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1

Documents Prepared By:

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

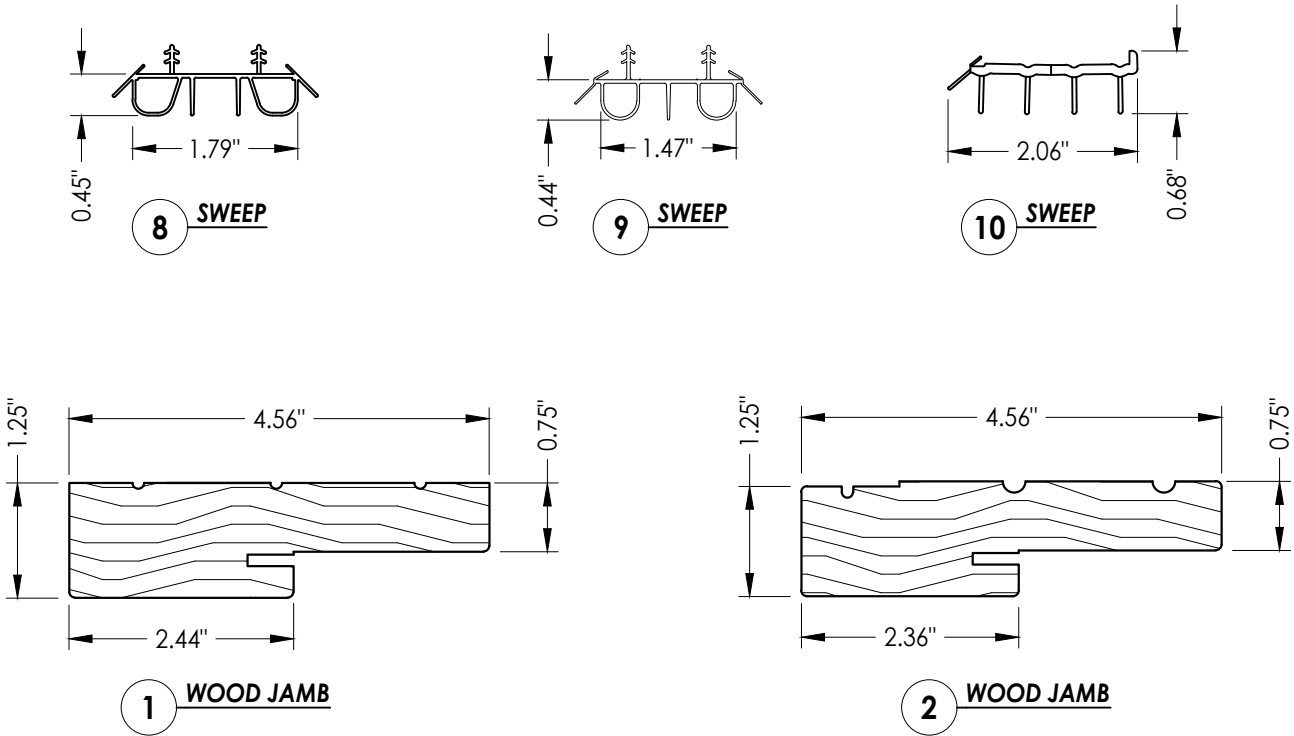
COMPONENTS

NO.	DATE	REVISIONS				BY
		DATE	DESCRIPTION	DATE	DESCRIPTION	
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
4	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS		
3	10/08/18	REV. DOOR PANEL OPTION	NOTE	MT		
2	12/03/17	RECESSED PANEL NOTATION		JK		
1	7/17/19	UPDATE TO 6th ED (2017)	FBC	JK		
DATE: 4/28/15						
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-17540.3						
SHEET 10 OF 11						

Z:\2023 FBC Drawings\Therma-Tru\FL-17540 R6\FL-17540.1-4.dwg

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 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" ITW CONCRETE SCREW	
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
1	JAMB (FINGER JOINT PINE)	WOOD
2	JAMB (FINGER JOINT PINE)	WOOD
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
8	SWEEP	VINYL
9	SWEEP	VINYL
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/COMP
17	OUTSWING 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

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
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 (STANDARD)	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
38	INSWING THRESHOLD	ALUM/COMP
39	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
43	INSWING THRESHOLD	ALUM/COMP
44	INSWING THRESHOLD	ALUM/COMP
45	INSWING THRESHOLD	ALUM/COMP
46	INSWING THRESHOLD	ALUM/COMP
47	INSWING THRESHOLD	ALUM/COMP
48	INSWING THRESHOLD	ALUM/COMP



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"
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:

- 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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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
COMPONENTS &
BILL OF MATERIALS

	5	4	3	2	1	NO.	DATE	REVISIONS
LFS	7/17/23	7/14/20	10/08/18	12/03/17	7/17/19			
FBC	UPDATE TO 8TH ED. (2023)	UPDATE TO 7th ED (2020)	REV. DOOR PANEL OPTION NOTE	RECESSED PANEL NOTATION	UPDATE TO 6th ED (2017)			
MT								
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BY								

DATE: 4/28/15

SCALE: N.T.S.

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CHK. BY: LFS

DRAWING NO.:

FL-17540.3

SHEET 11 OF 11