



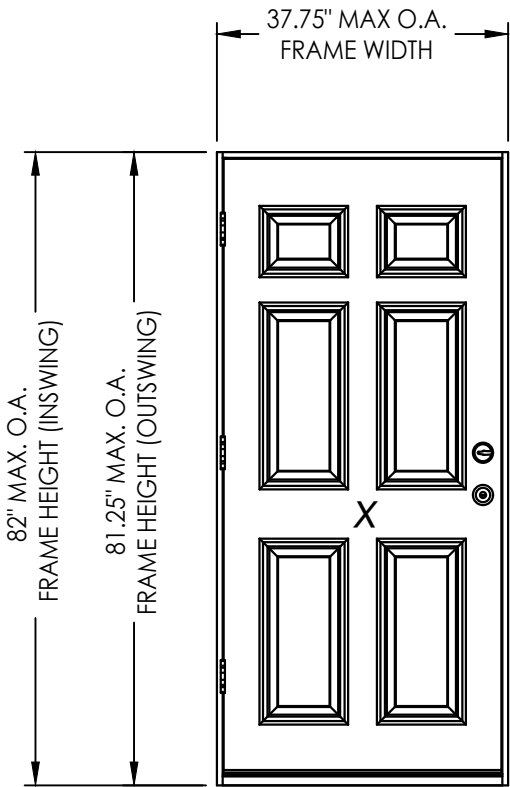
Fiber-Classic® & Smooth-Star®

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

GENERAL NOTES

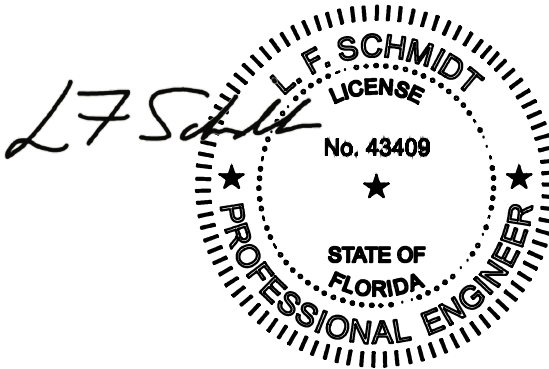
- 1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- 2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall 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.
- 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. Fiber-Classic & Smooth-Star Door panels require the use of "J" part numbers and must be stained or painted within six months of installation.

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SHEET#	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
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6	Horizontal & Vertical Cross Sections (Direct to Masonry)
7	Vertical Cross Sections (Thresholds)
8	Buck & Frame Anchoring
9	Hardware Details
10	Components
11	Components & 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
X	Multipoint	+50.0	-50.0	+50.0	-50.0

See Sheet 3 for Hardware Specifications



Digitally signed by Lyndon F Schmidt
Date: 2026.08.07 10:10:38 -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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

57/02/26UPDATE TO 9TH ED. (2026) FBC

48/22/23UPDATE TO 8TH ED. (2023) FBC

37/15/20UPDATE TO 7th ED (2020) FBC

210/09/18REV. DOOR PANEL OPTION NOTE

111/15/17RECESSED PANEL NOTATION

NO.1DATE

DATE: 12/19/16

SCALE: N.T.S.

DWG. BY: JK

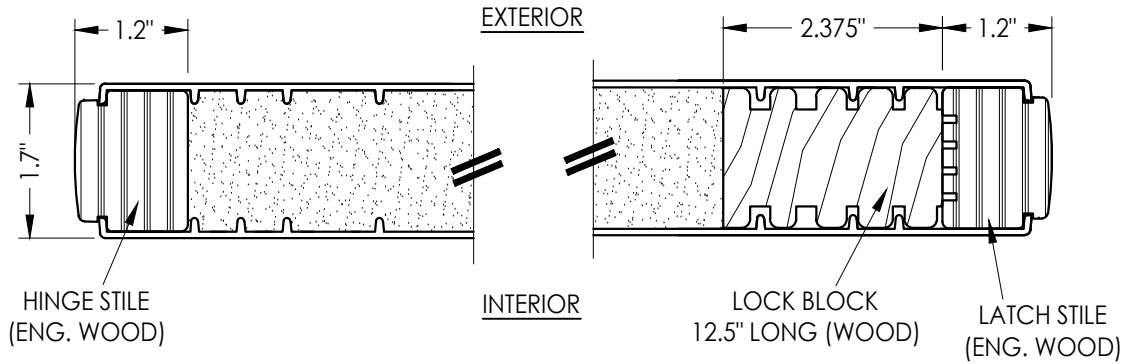
CHK. BY: LFS

DRAWING NO.: FL-21138.1

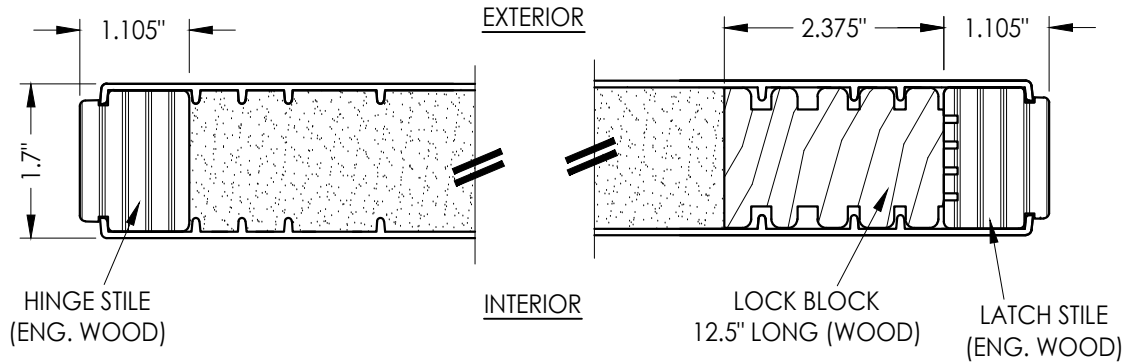
SHEET 1 OF 11

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

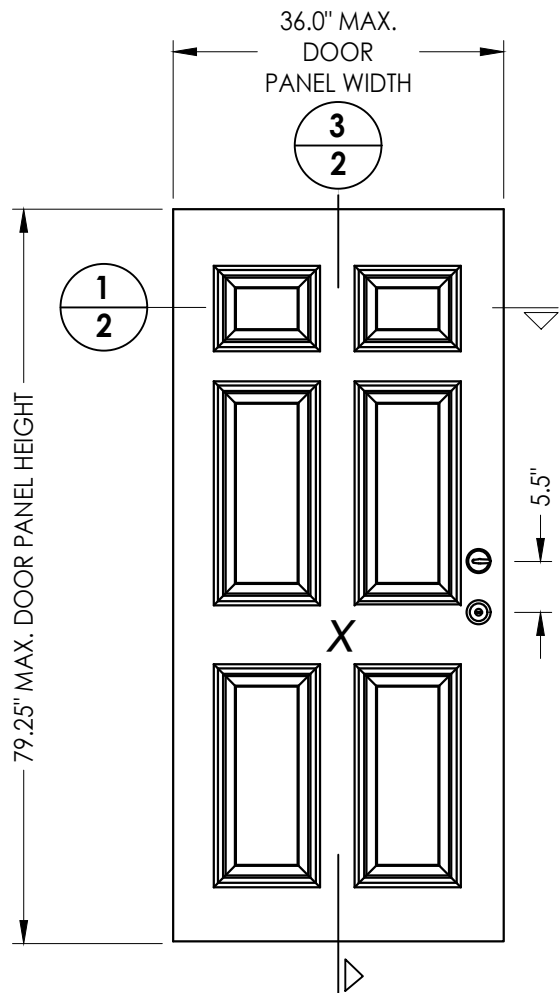
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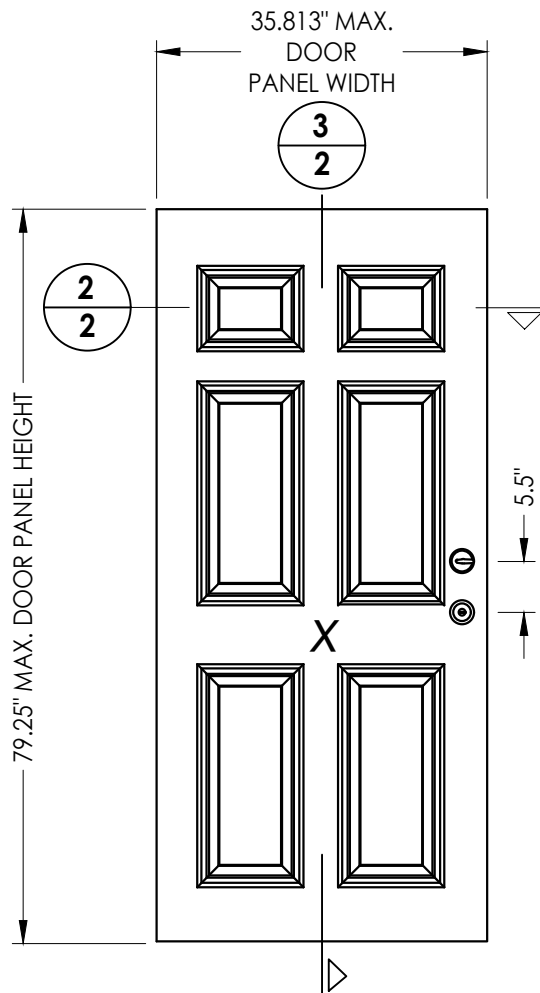
1
2 HORIZONTAL CROSS SECTION



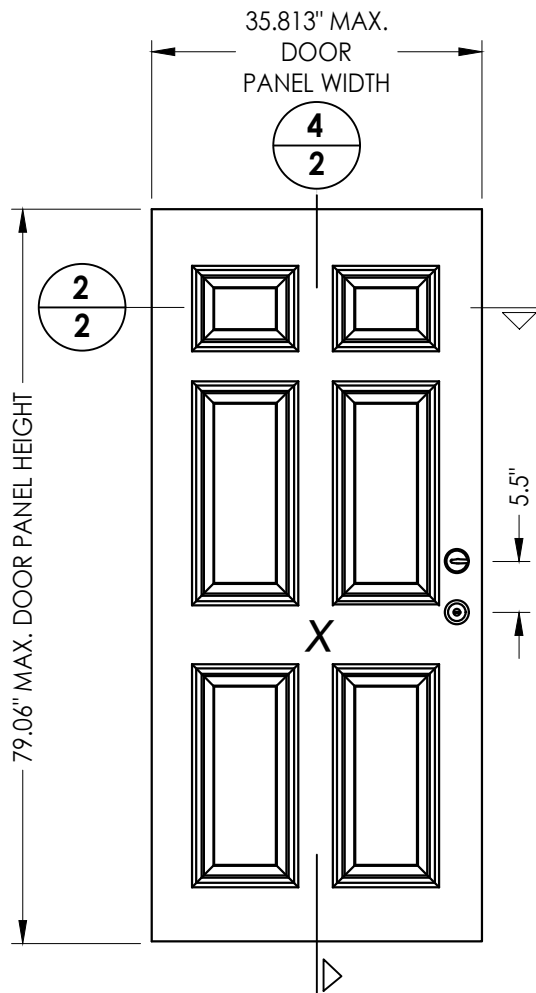
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2 HORIZONTAL CROSS SECTION



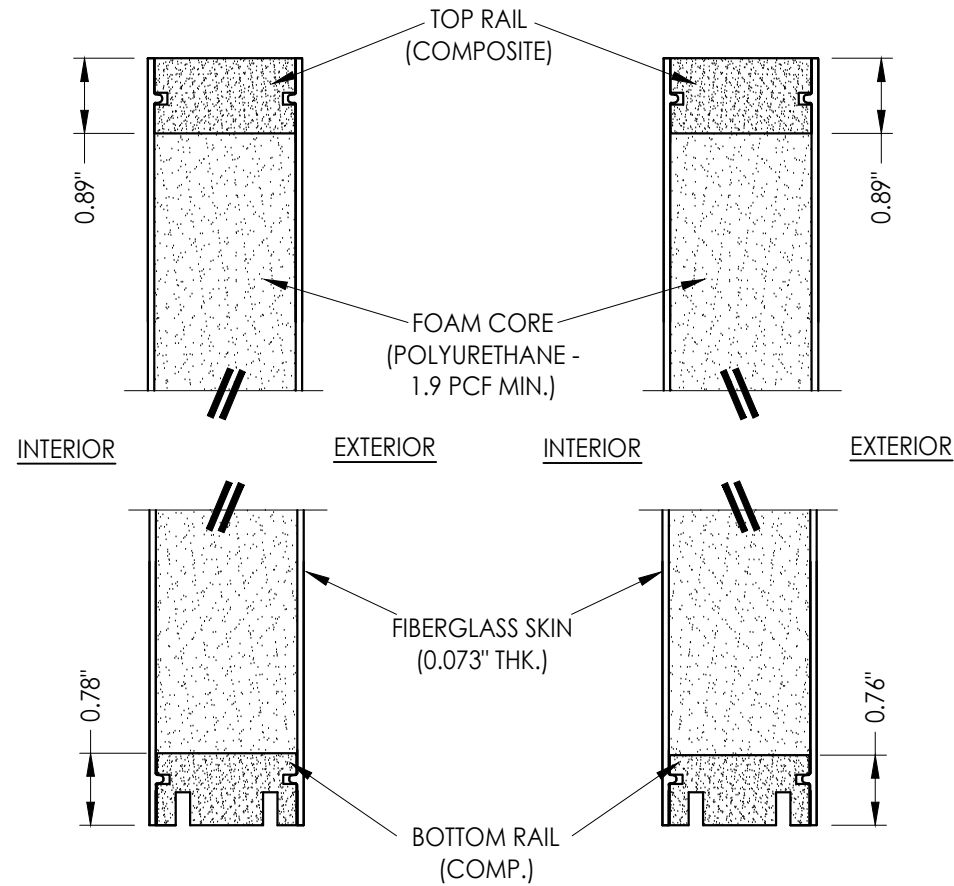
40 DOOR PANEL
BOOK



41 DOOR PANEL
Hybrid Door



42 DOOR PANEL
U1 Door



3
2 VERTICAL CROSS SECTION

4
2 VERTICAL CROSS SECTION

Documents Prepared By:
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P.E. No. 43409

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
5	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
4	8/22/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/15/20	UPDATE TO 7th ED (2020) FBC PO
2	10/09/18	REV. DOOR PANEL OPTION NOTE MT
1	11/15/17	RECESSED PANEL NOTATION JK

DATE: 12/19/16

SCALE: N.T.S.

DWG. BY: JK

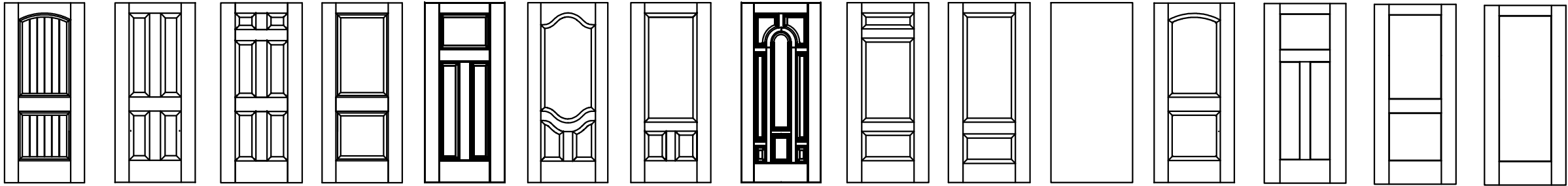
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DRAWING NO.:

FL-21138.1

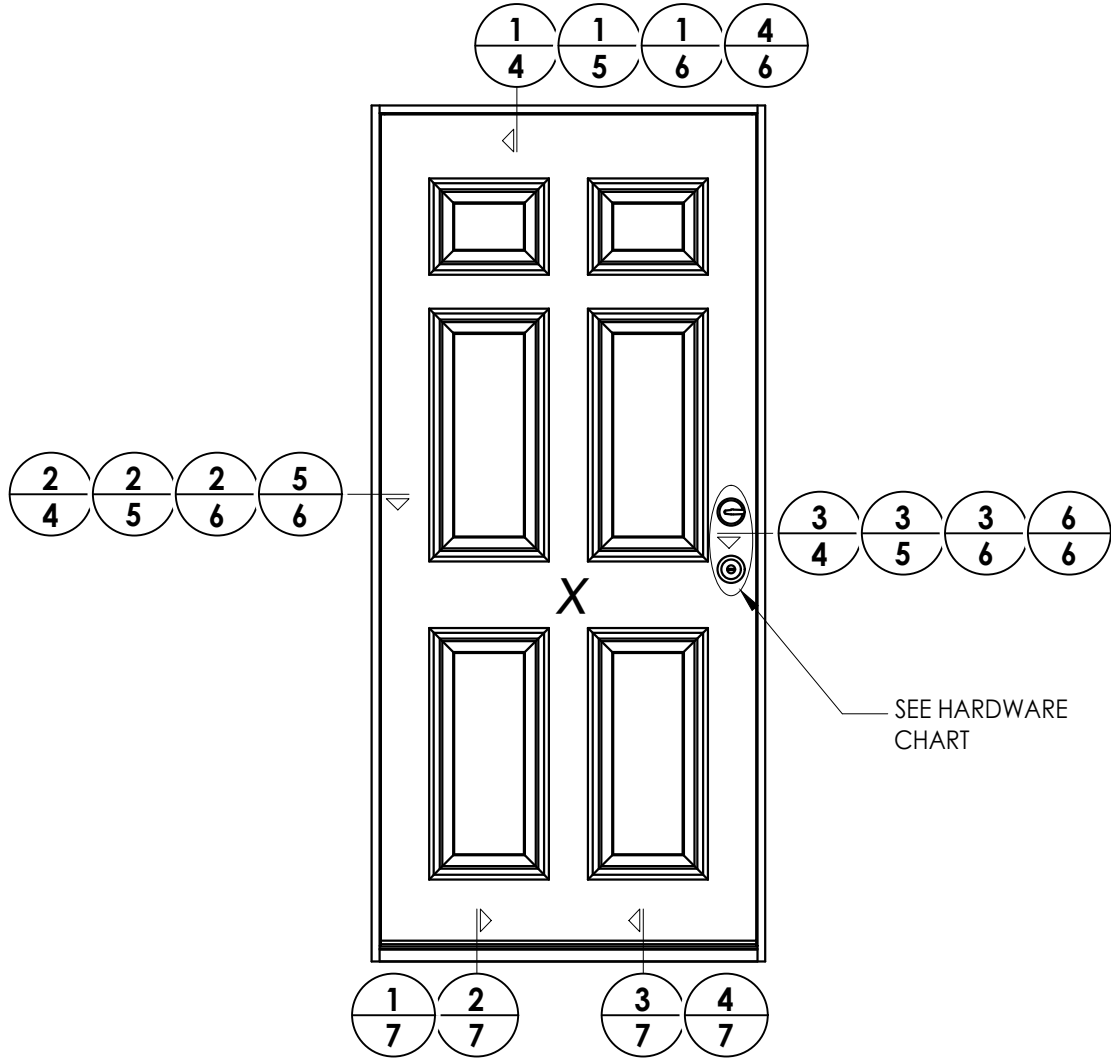
SHEET 2 OF 11

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Fiber-Classic/Smooth-Star 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.



SEE HARDWARE
CHART

HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	Knob:	F51
	Deadbolt:	B60
KWIKSET	Knob:	SIGNATURE SERIES
	Deadbolt:	SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)	

DATE: 12/19/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21138.1

SHEET 3 OF 11

57/02/26UPDATE TO 9TH ED. (2026) FBC LFS

48/22/23UPDATE TO 8TH ED. (2023) FBC LFS

37/15/20UPDATE TO 7th ED (2020) FBC PO

210/09/18REV. DOOR PANEL OPTION NOTE MT

111/15/17RECESSED PANEL NOTATION JK

NO. DATEBY

REVISIONS

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

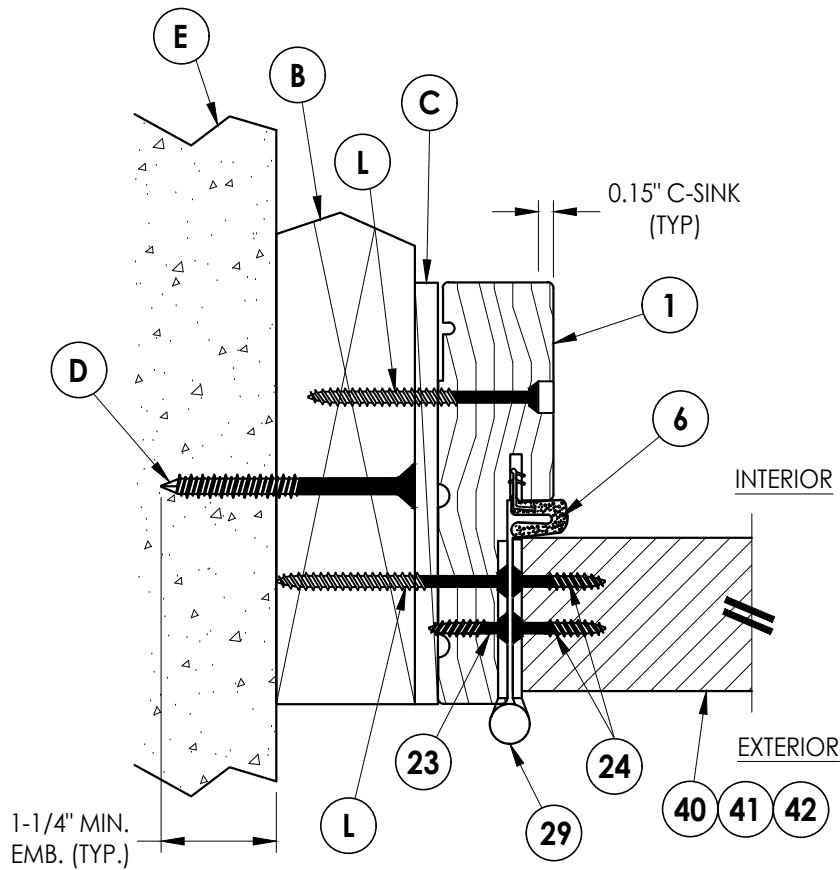
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P.E. No. 43409

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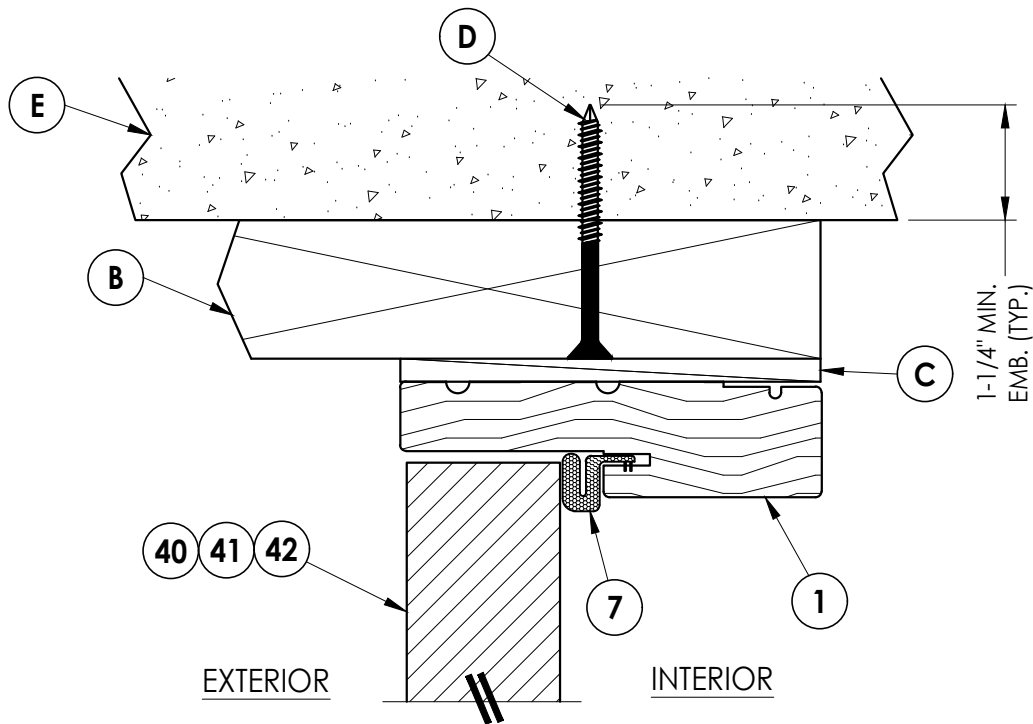
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FBPE Registry No. 9813

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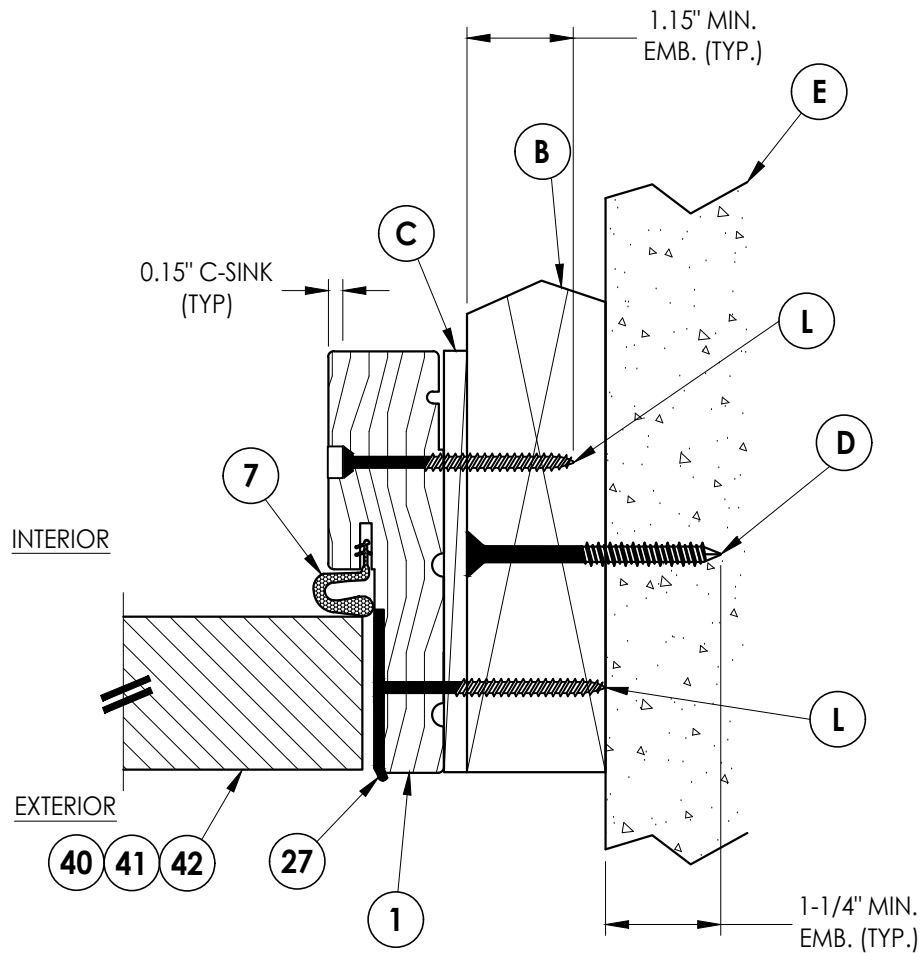
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2 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

REVISIONS		DATE		NO.		BY		DATE		NO.		BY		DATE	
5	7/02/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS										
4	8/22/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS										
3	7/15/20	UPDATE TO 7th ED	(2020)	FBC	PO										
2	10/09/18	REV. DOOR PANEL OPTION	NOTE	MT											
1	11/15/17	RECESSED PANEL NOTATION	JK												

DATE: 12/19/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21138.1

SHEET 4 OF 11

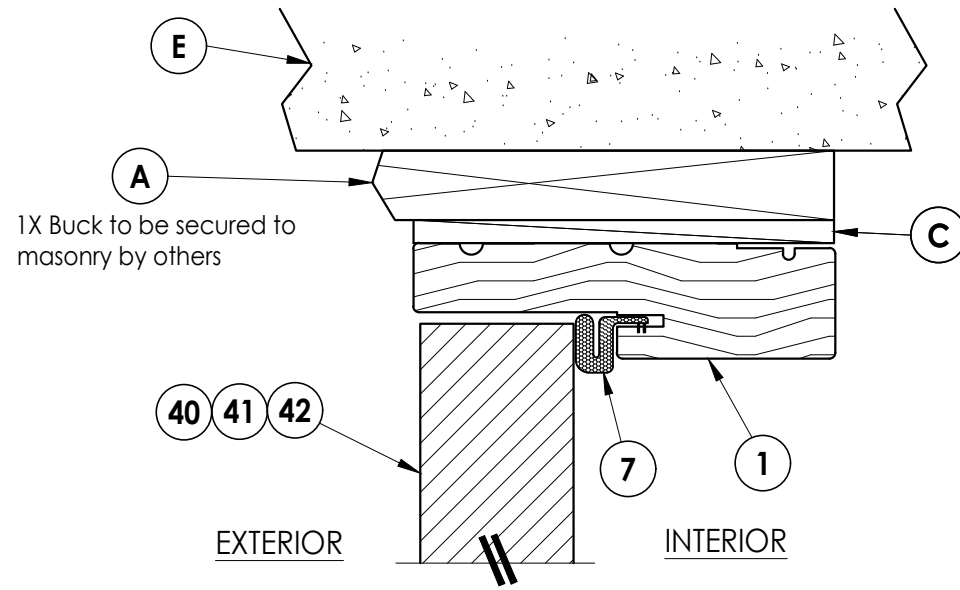
Documents Prepared By:
Lyndon F. Schmidt
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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

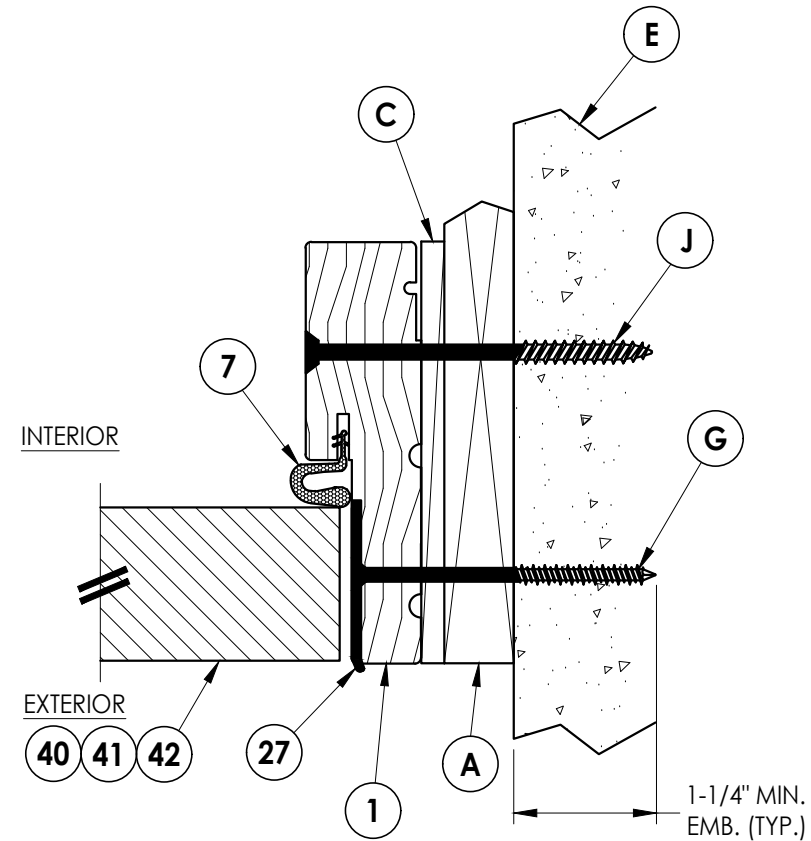
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

1-1/4" MIN.
EMB. (TYP.)



1 5 **VERTICAL CROSS SECTION**

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



3 5 **HORIZONTAL CROSS SECTION**

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

1-1/4" MIN.
EMB. (TYP.)

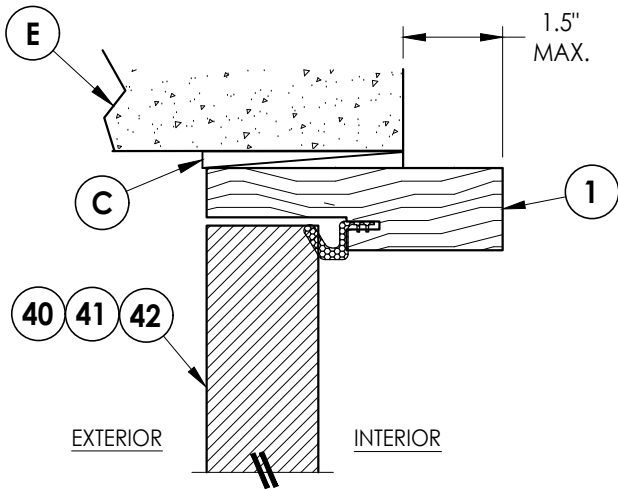
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

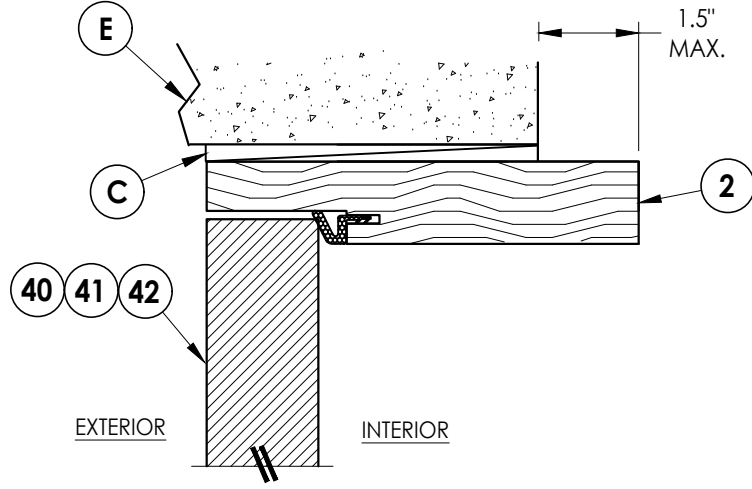
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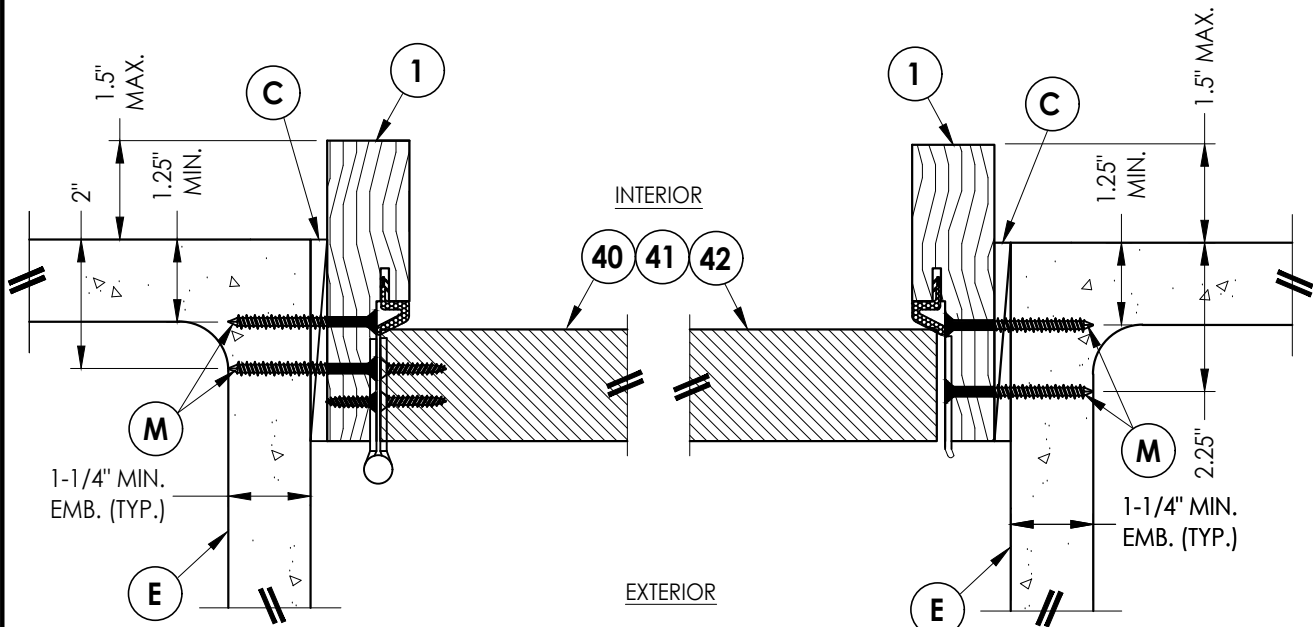


1/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

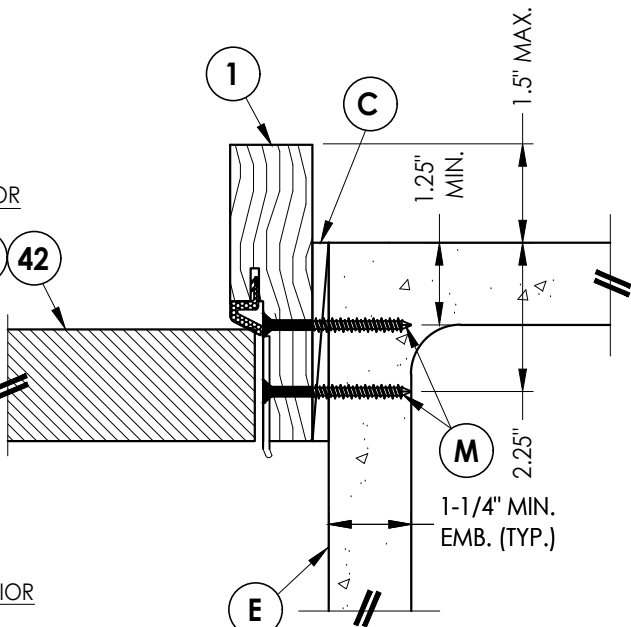


4/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

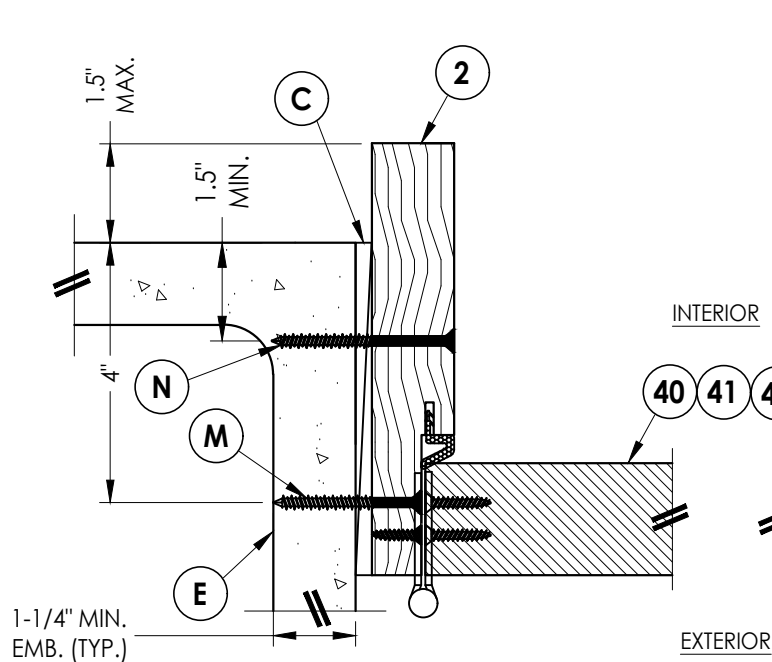
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 55 PSF
w/ SECURITY STRIKE = ± 65 PSF



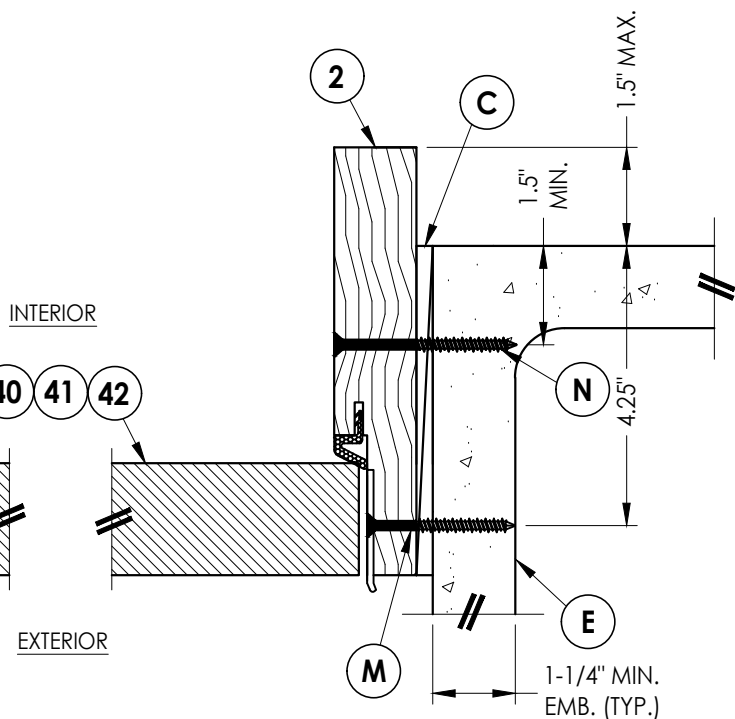
2/6 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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

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
5	7/02/26	UPDATE TO 9TH ED. (2026) FBC
4	8/22/23	UPDATE TO 8TH ED. (2023) FBC
3	7/15/20	UPDATE TO 7th ED (2020) FBC
2	10/09/18	REV. DOOR PANEL OPTION NOTE
1	11/15/17	RECESSED PANEL NOTATION

DATE: 12/19/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21138.1

SHEET 6 OF 11

1. Sill Item #'s 16, 32, 33, 36, 37, 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 17 & 18 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.



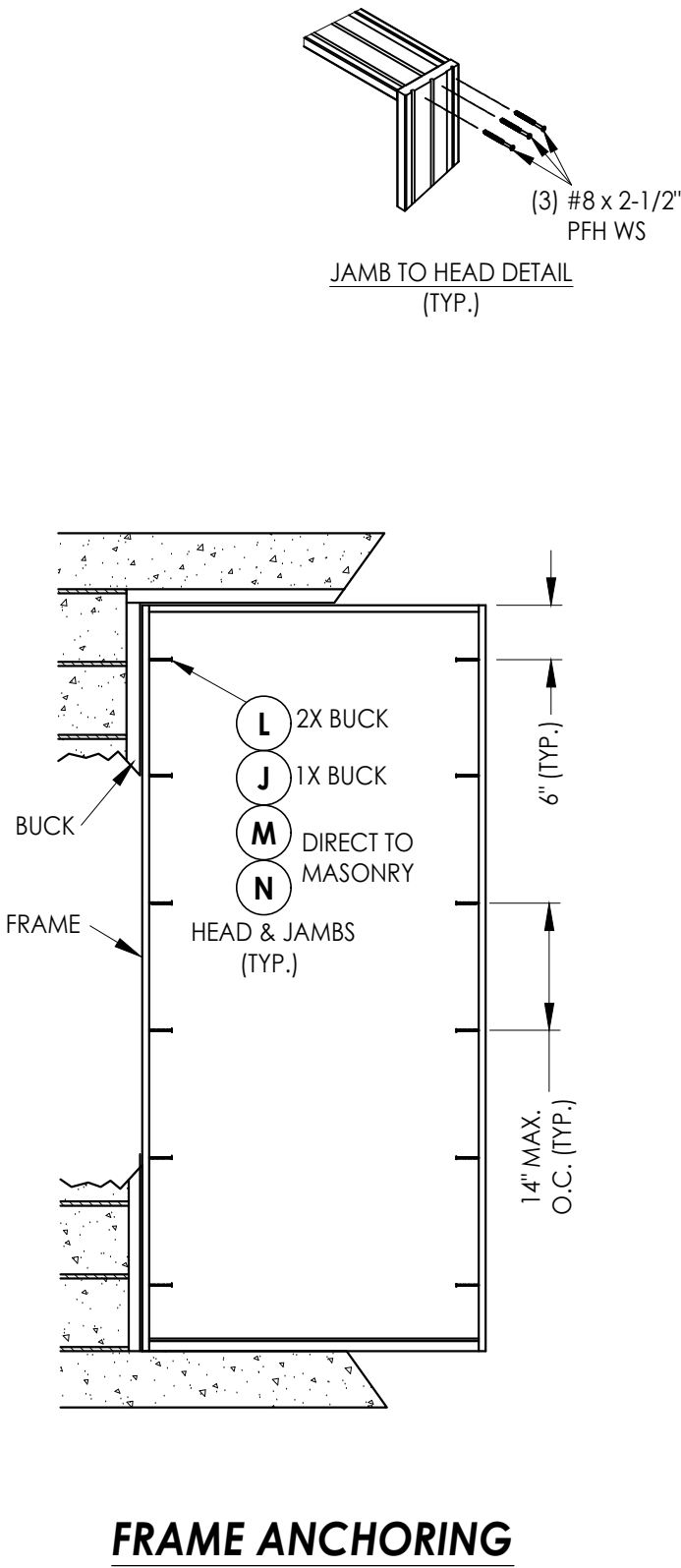
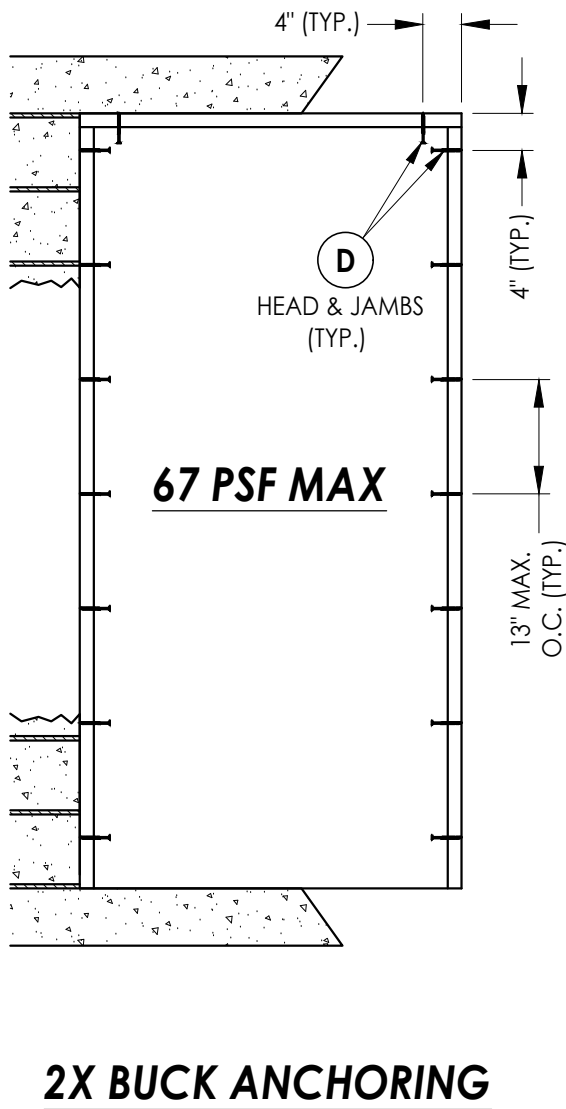
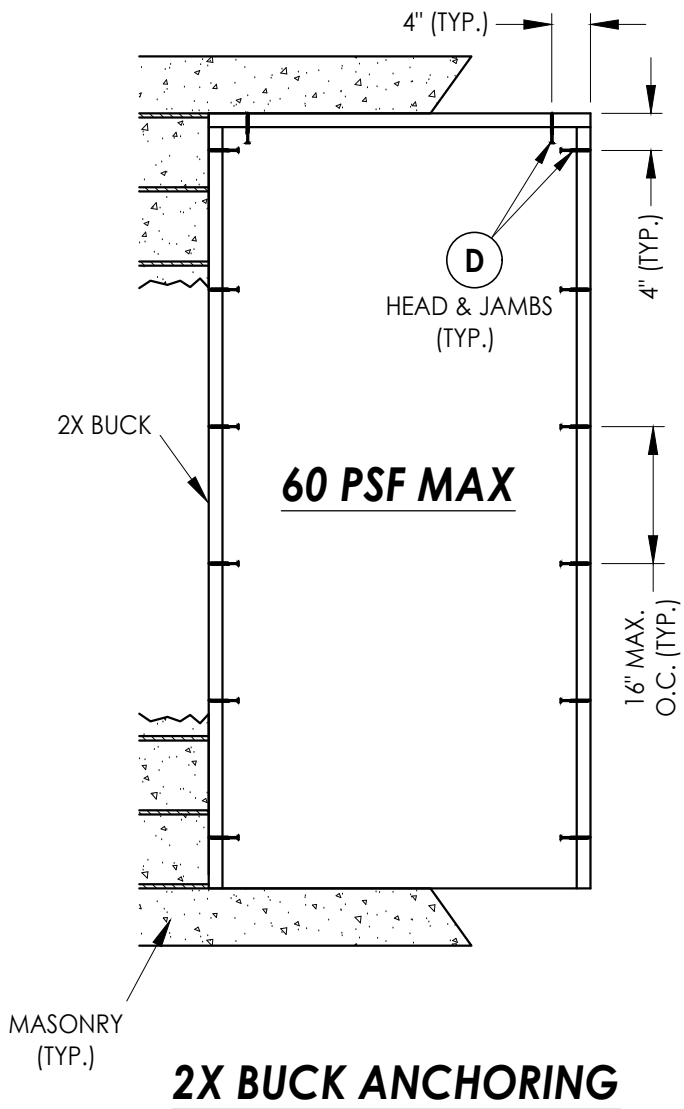
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4	8/22/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO
2	10/09/18	REV. DOOR PANEL OPTION	NOTE	MT
1	11/15/17	RECESSED PANEL NOTATION		JK
NO.	DATE			BY
REVISIONS				

SHEET 7 OF 11

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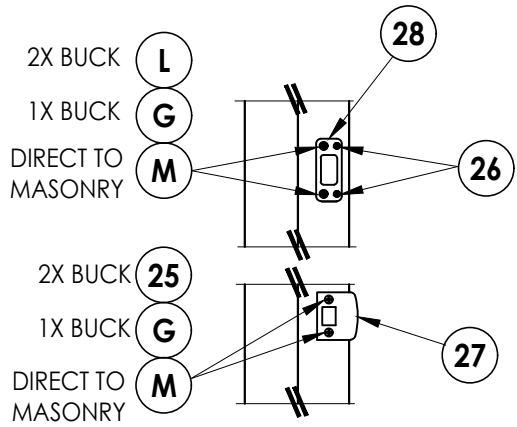
OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

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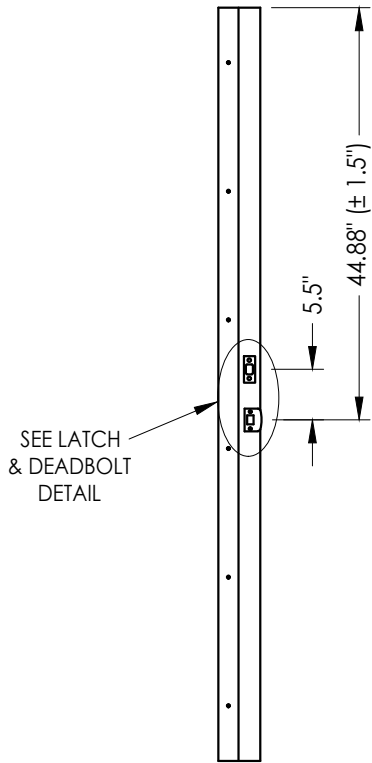


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: BUCK & FRAME ANCHORING	
5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC LFS
4	8/22/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/15/20	UPDATE TO 7th ED (2020)	FBC PO
2	10/09/18	REV. DOOR PANEL OPTION	NOTE MT
1	11/15/17	RECESSED PANEL NOTATION	JK
NO.	DATE		BY
REVISIONS			
DATE: 12/19/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21138.1			
SHEET 8 OF 11			

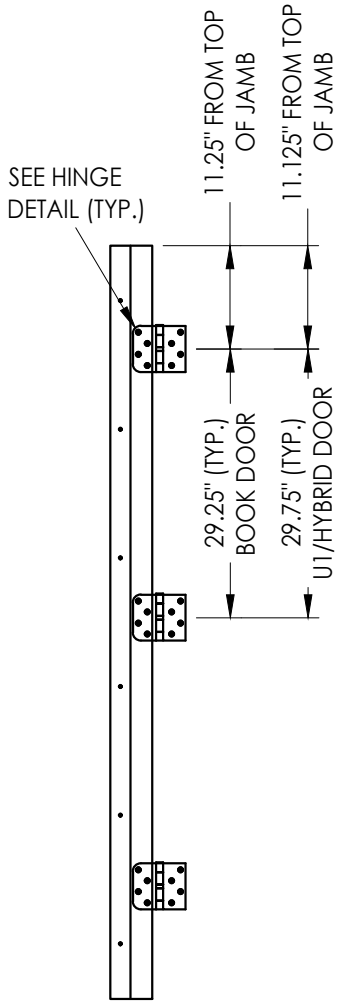
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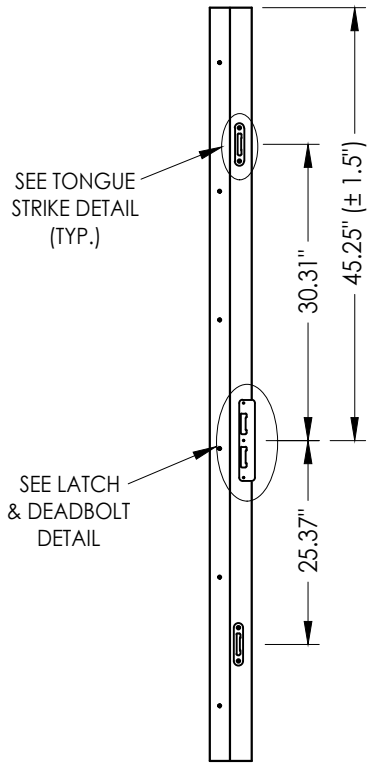
LATCH & DEADBOLT DETAIL
Kwikset



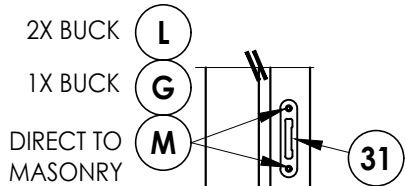
STRIKE JAMB
Latch and Deadbolt



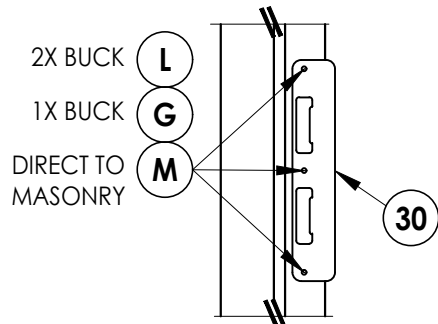
HINGE JAMB



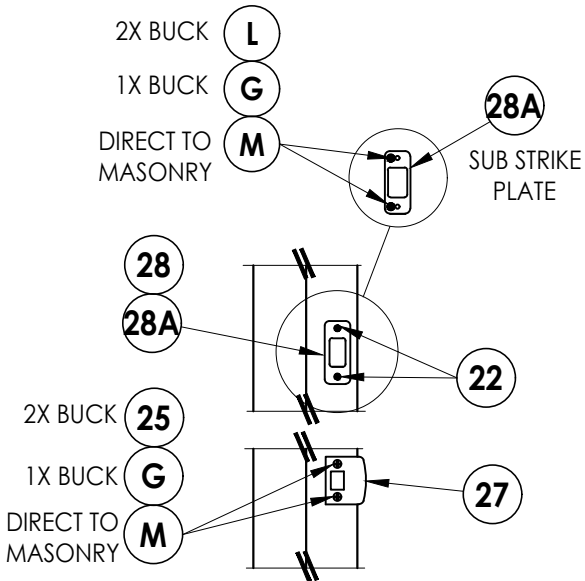
STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock

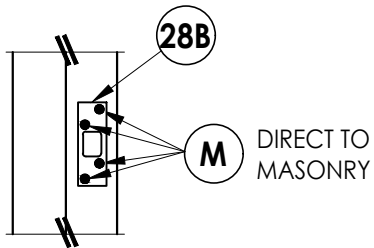


LATCH & DEADBOLT DETAIL
Multipoint Lock

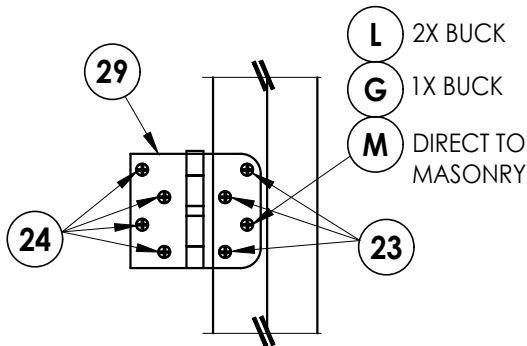


LATCH & DEADBOLT DETAIL
Schlage

LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)



DEADBOLT STRIKE DETAILS
(Security Deadbolt Strike Plate)



HINGE DETAIL

MULTIPOINT LOCK STRIKE DETAILS

NO.	DATE	REVISIONS			
		NO.	DATE	BY	JK
5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
4	8/22/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/15/20	UPDATE TO 7th ED. (2020)	FBC	PO	
2	10/09/18	REV. DOOR PANEL OPTION	NOTE	MT	
1	11/15/17	RECESSED PANEL NOTATION		JK	

DATE: 12/19/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21138.1

SHEET 9 OF 11

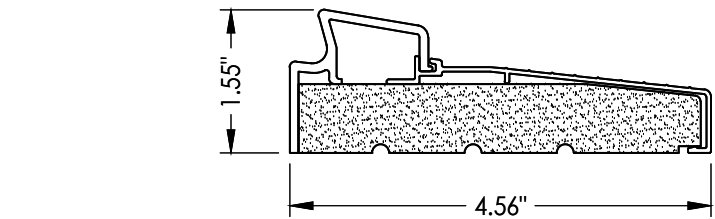
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

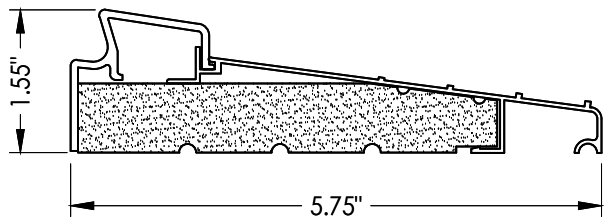
PART OR ASSEMBLY: HARDWARE DETAILS

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

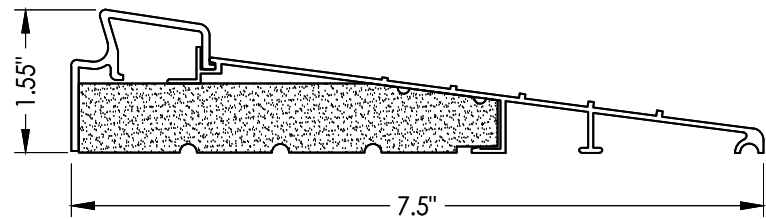
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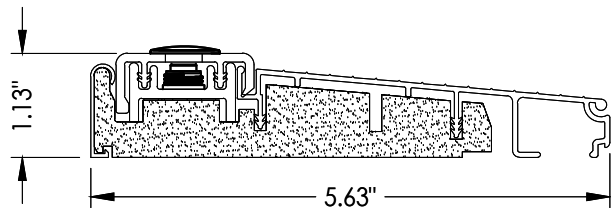
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



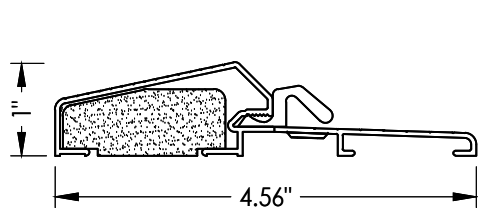
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



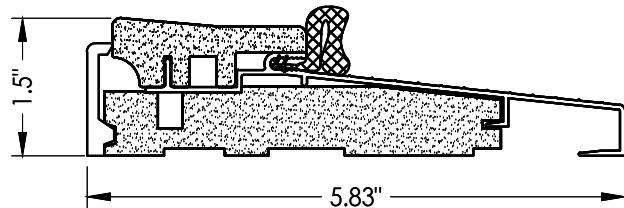
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



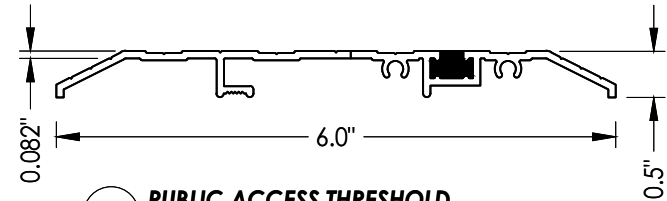
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



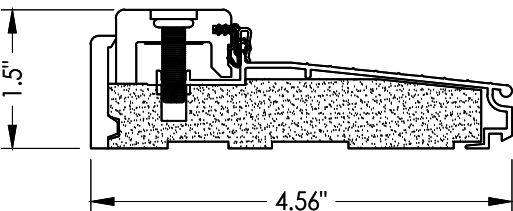
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



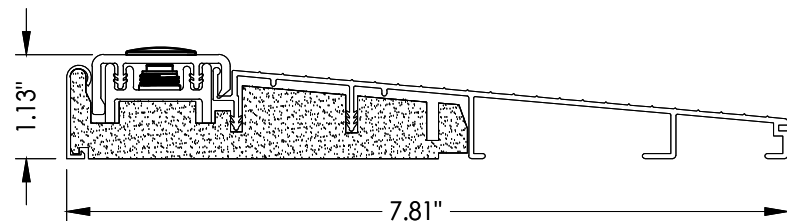
16 OUTSWING THRESHOLD*
Composite / Aluminum Sill



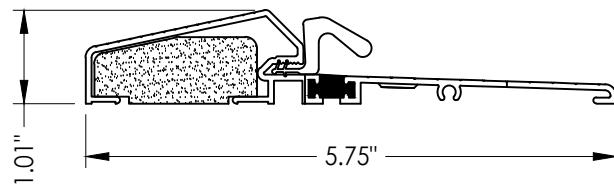
15 PUBLIC ACCESS THRESHOLD



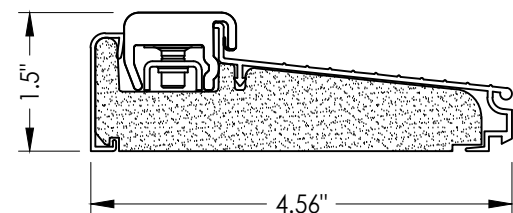
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



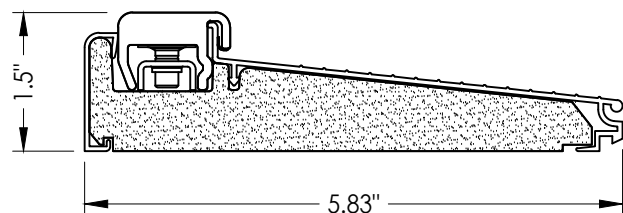
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



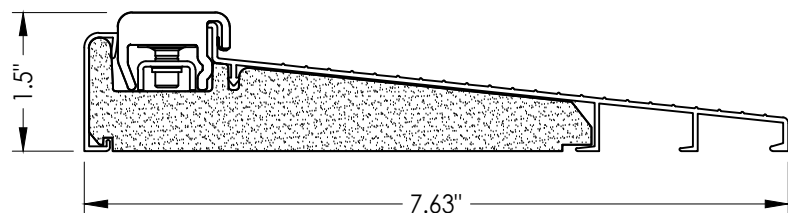
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



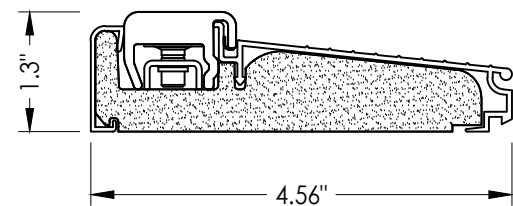
50 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



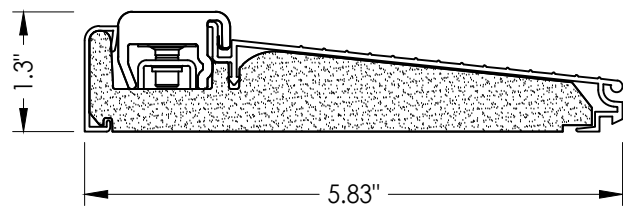
51 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



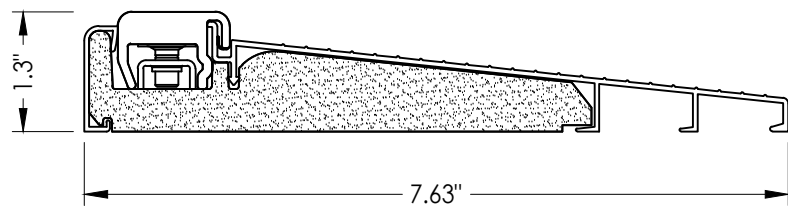
52 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



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				
		DATE	BY	CHK	APP	DESCRIPTION
5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS		
4	8/22/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
3	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO		
2	10/09/18	REV. DOOR PANEL OPTION	NOTE	MT		
1	11/15/17	RECESSED PANEL NOTATION		JK		

DATE: 12/19/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21138.1

SHEET 10 OF 11

E:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-21138 R8\FL-21138.1-3.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 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" 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
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
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
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
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
30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
32	INSWING THRESHOLD	ALUM/COMP
33	INSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
37	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)	-
50	INSWING THRESHOLD	ALUM/COMP
51	INSWING THRESHOLD	ALUM/COMP
52	INSWING THRESHOLD	ALUM/COMP
53	INSWING THRESHOLD	ALUM/COMP
54	INSWING THRESHOLD	ALUM/COMP
55	INSWING THRESHOLD	ALUM/COMP

CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

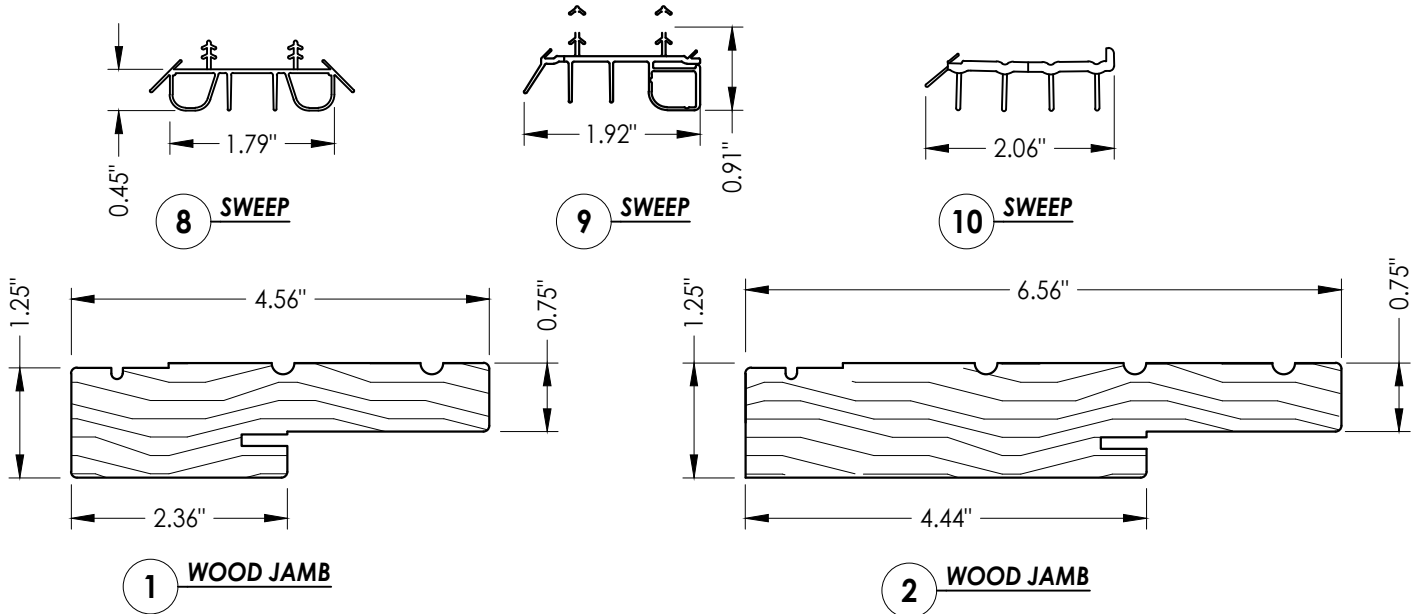
CONCRETE ANCHOR NOTES:

- 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 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.



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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
COMPONENTS &
BILL OF MATERIALS

	LFS	FBC	FBC	FBC	PO	MT	JK	BY
7/02/26	UPDATE TO 9TH ED.	(2026)	FBC					
5	UPDATE TO 8TH ED.	(2023)	FBC					
4	UPDATE TO 7th ED	(2020)	FBC					
3	REV. DOOR PANEL OPTION	NOTE						
2	RECESSED PANEL NOTATION							
1	DATE							
NO.								

DATE: 12/19/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21138.1
SHEET 11 OF 11