

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

GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 9th Edition (2026) Florida Building Code (FBC) including 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 the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" 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 E 1996.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using Sill numbers 17 & 18 meet the water infiltration requirements for the "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.

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	Components & Bill of Materials

L. F. SCHMIDT

LICENSE

No. 43409

STATE OF FLORIDA

PROFESSIONAL ENGINEER

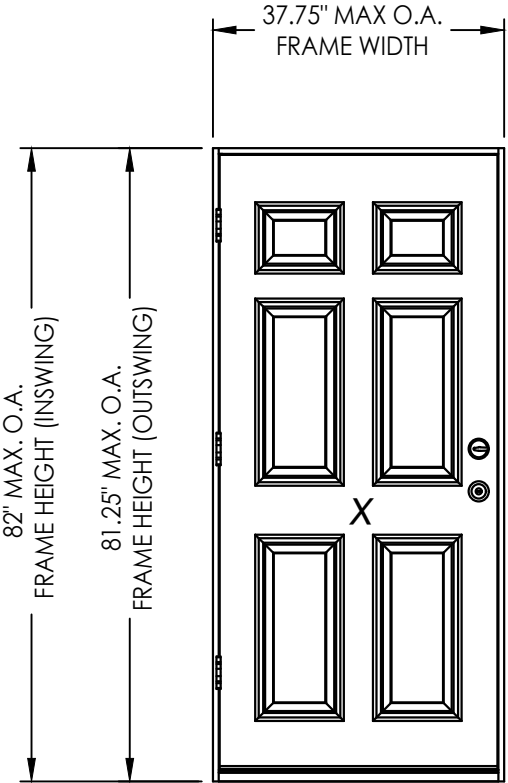
Digitally signed by Lyndon F Schmidt

Date: 2026.08.04 17:12:58 -04'00'

This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal.

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THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA



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

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

THERMA-TRU
FIBERGLASS DOOR

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

4

7/02/26

UPDATE TO 9th ED (2026)

FBC

LFS

3

7/10/23

UPDATE TO 8th ED (2023)

FBC

LFS

2

7/14/20

UPDATE TO 7th ED (2020)

FBC

LFS

1

7/17/19

UPDATE TO 6th ED (2017)

FBC

JK

NO.

DATE

BY

REVISIONS

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-13459.1

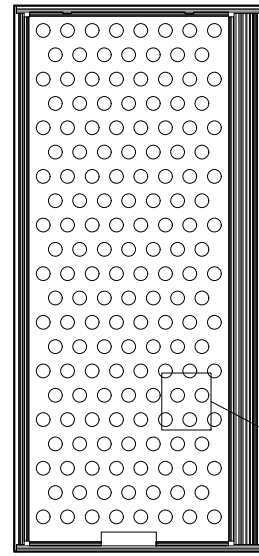
SHEET 1 OF 11

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RW

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

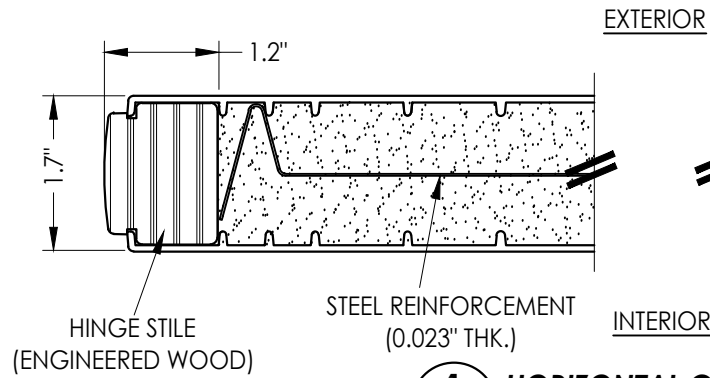
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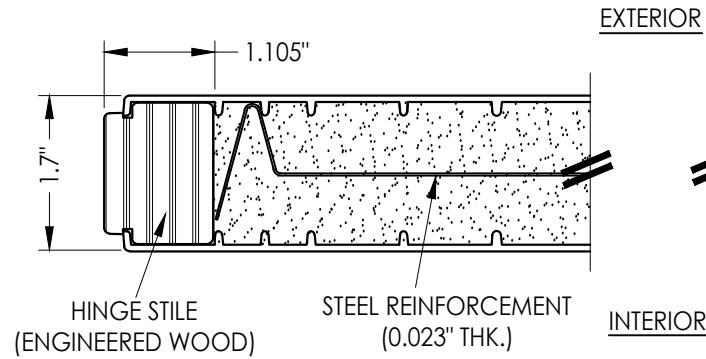
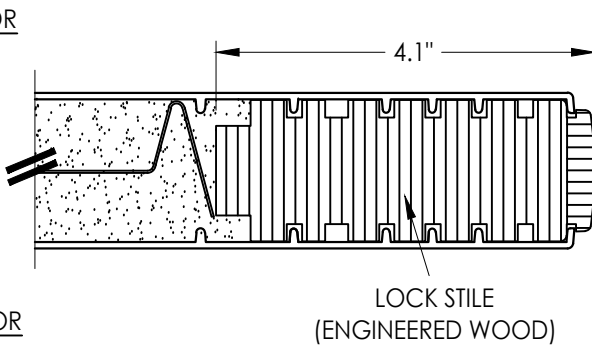
DETAIL A-A
PANEL REINFORCEMENT
(0.023\"

STEEL REINFORCEMENT
28.86% OPEN
AREA MAX.

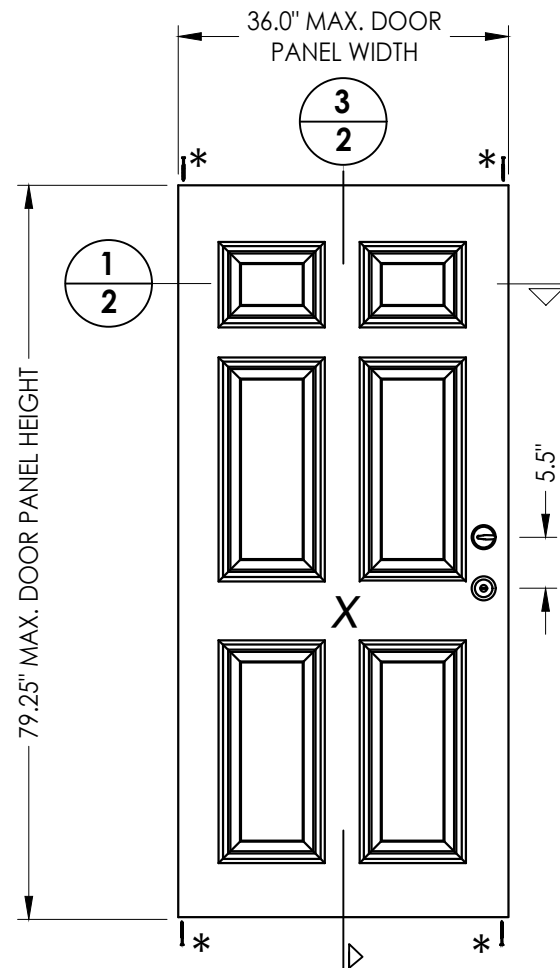
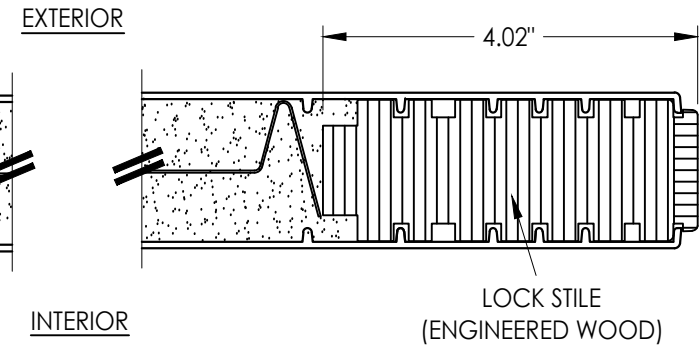
* #8 X 2.5\"



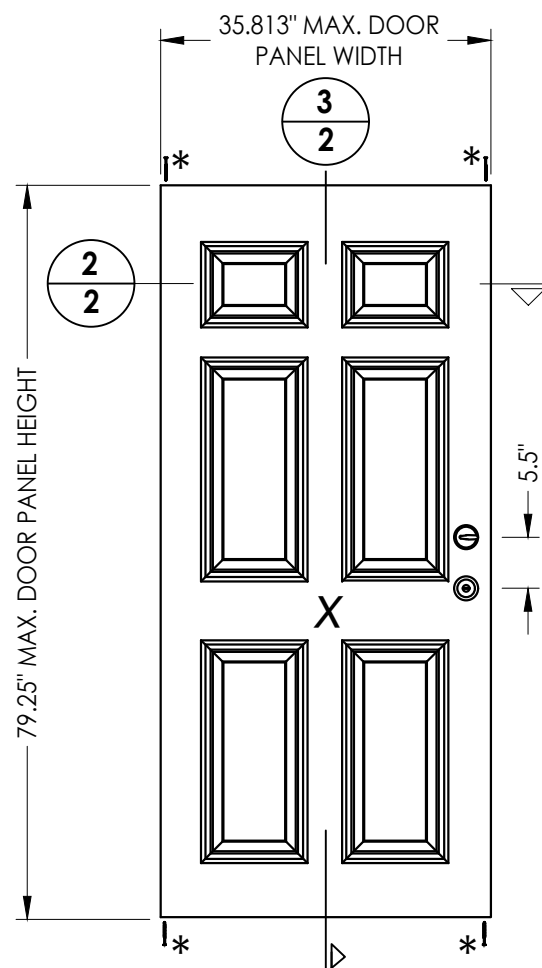
1
2 **HORIZONTAL CROSS SECTION**



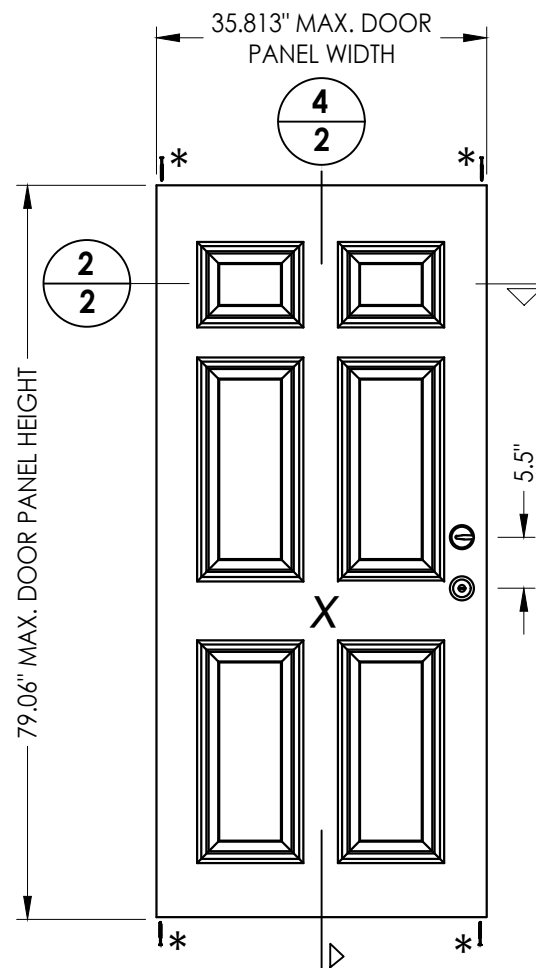
2
2 **HORIZONTAL CROSS SECTION**



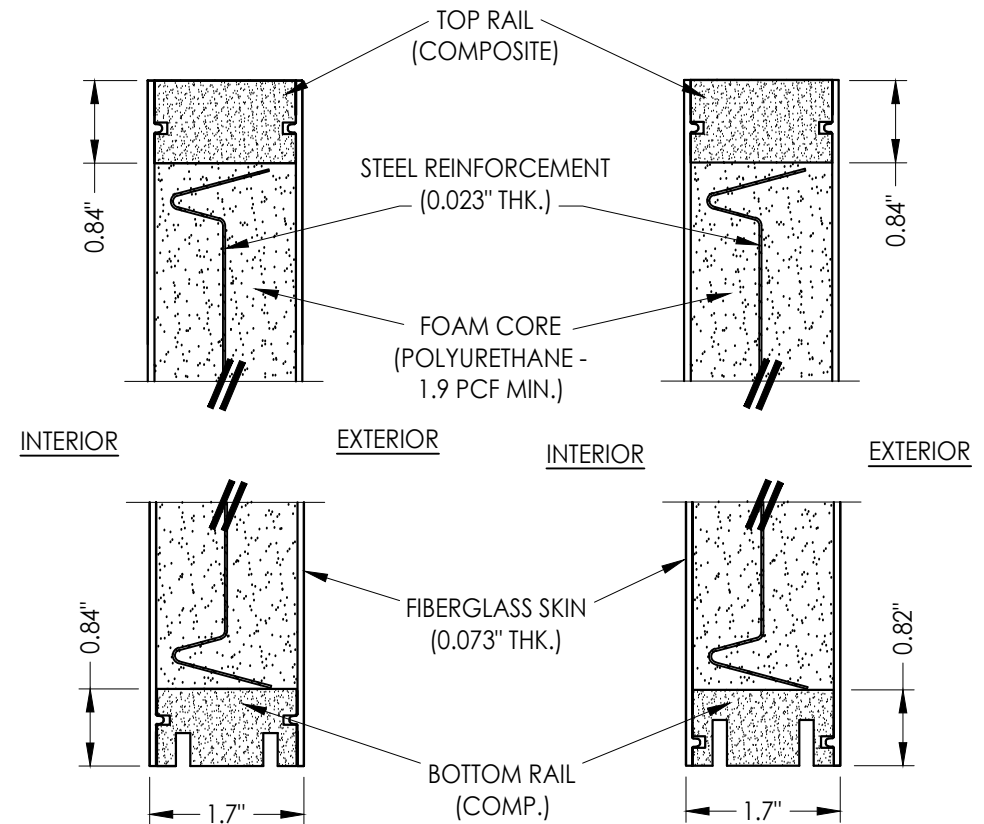
40 **DOOR PANEL**
BOOK



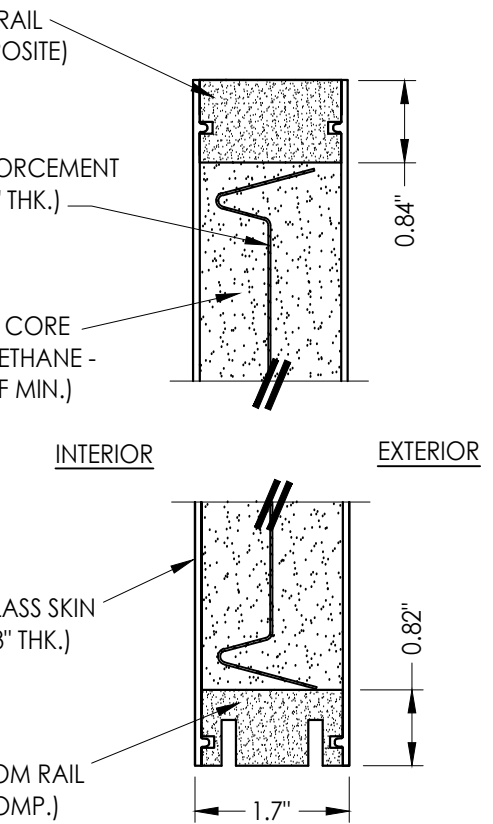
41 **DOOR PANEL**
Hybrid Door



42 **DOOR PANEL**
U1 Door



3
2 **VERTICAL CROSS SECTION**



4
2 **VERTICAL CROSS SECTION**

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

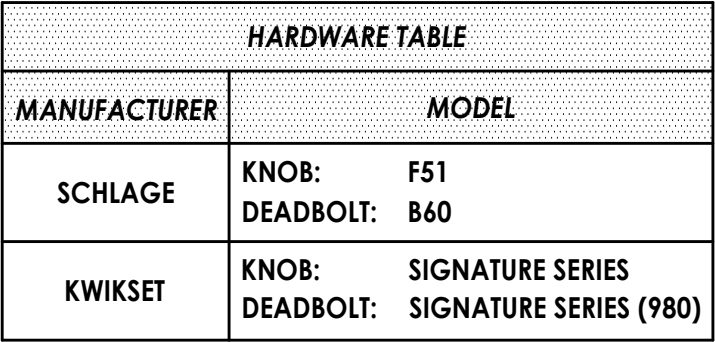
RW BUILDING CONSULTANTS, INC.

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	CHK	APP
4	7/02/26	UPDATE TO 9th ED (2026)	FBC	LFS	
3	7/10/23	UPDATE TO 8th ED (2023)	FBC	LFS	
2	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS	
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-13459.1
SHEET 2 OF 11



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



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

[illegible]

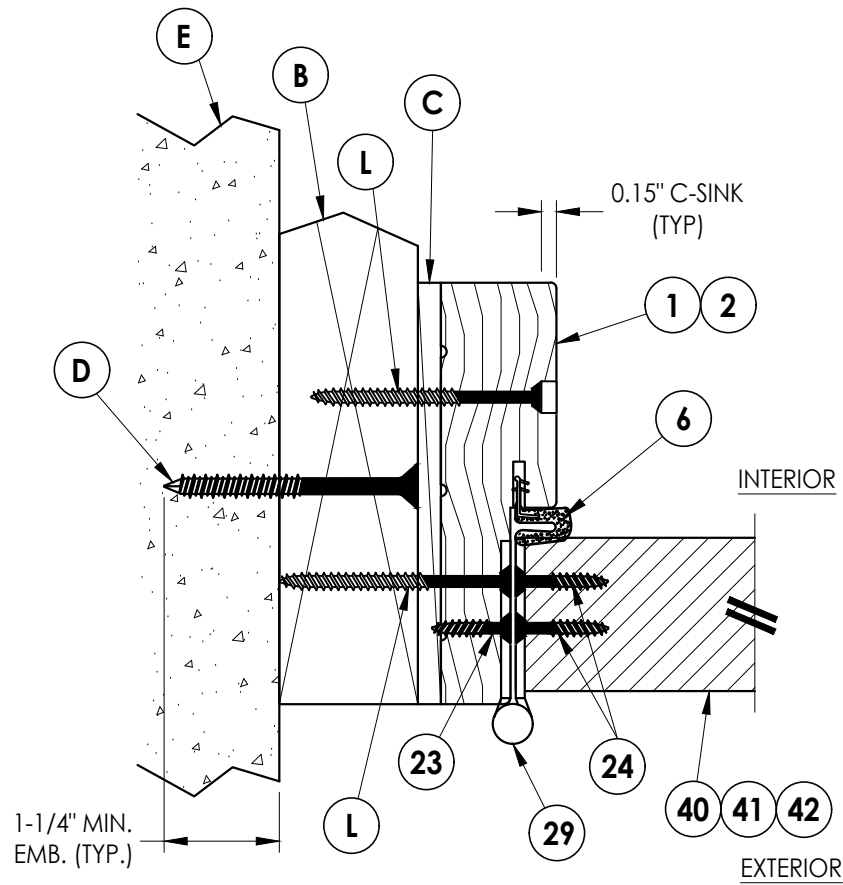
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Rea BUILDING CONSULTANTS, INC.

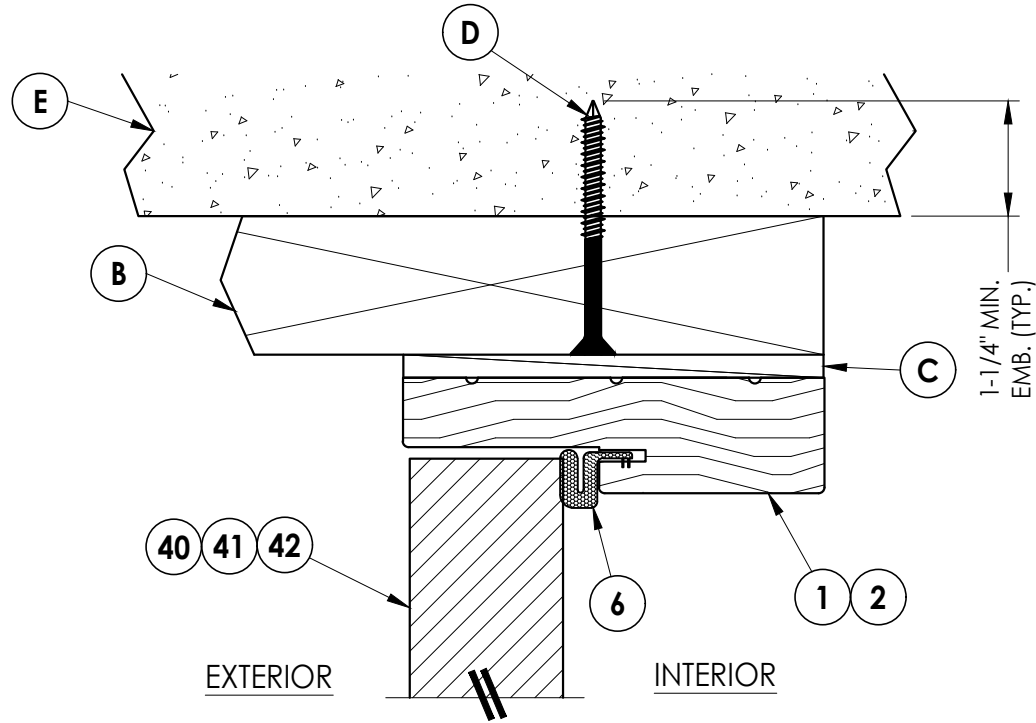
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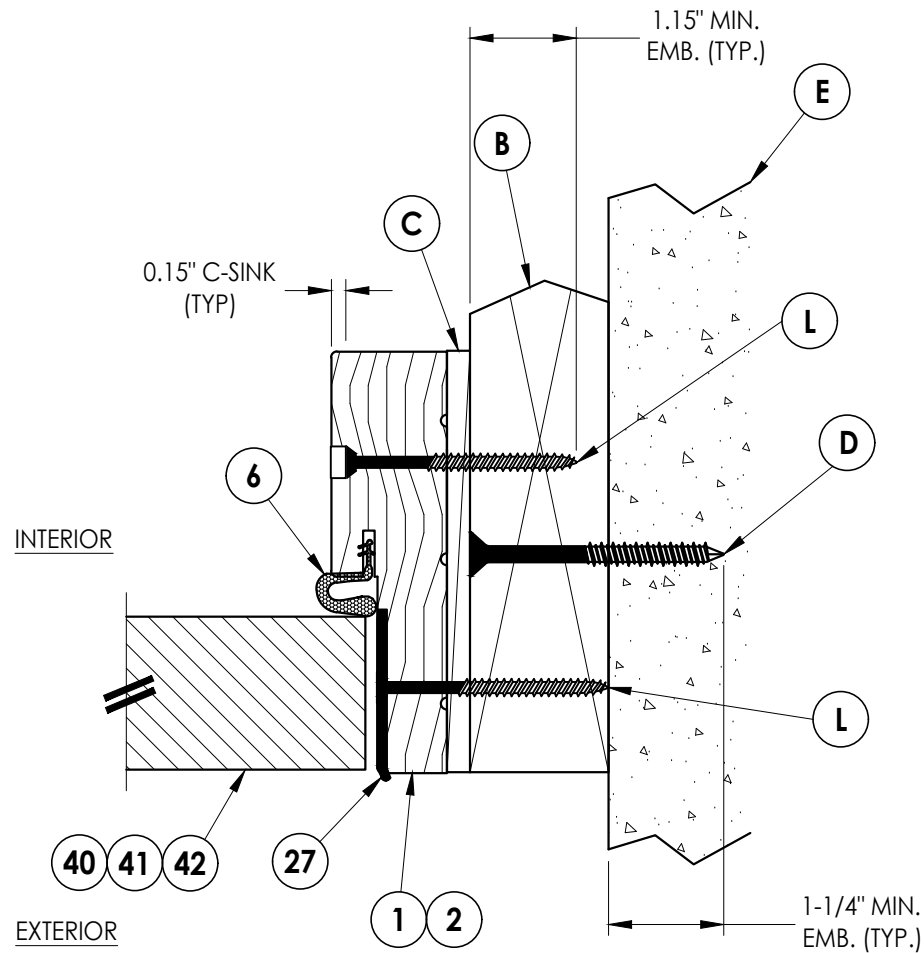
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2
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

Documents Prepared By:
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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9th ED (2026) FBC
3	7/10/23	UPDATE TO 8th ED (2023) FBC
2	7/14/20	UPDATE TO 7th ED (2020) FBC
1	7/17/19	UPDATE TO 6th ED (2017) FBC
NO.	DATE	BY

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

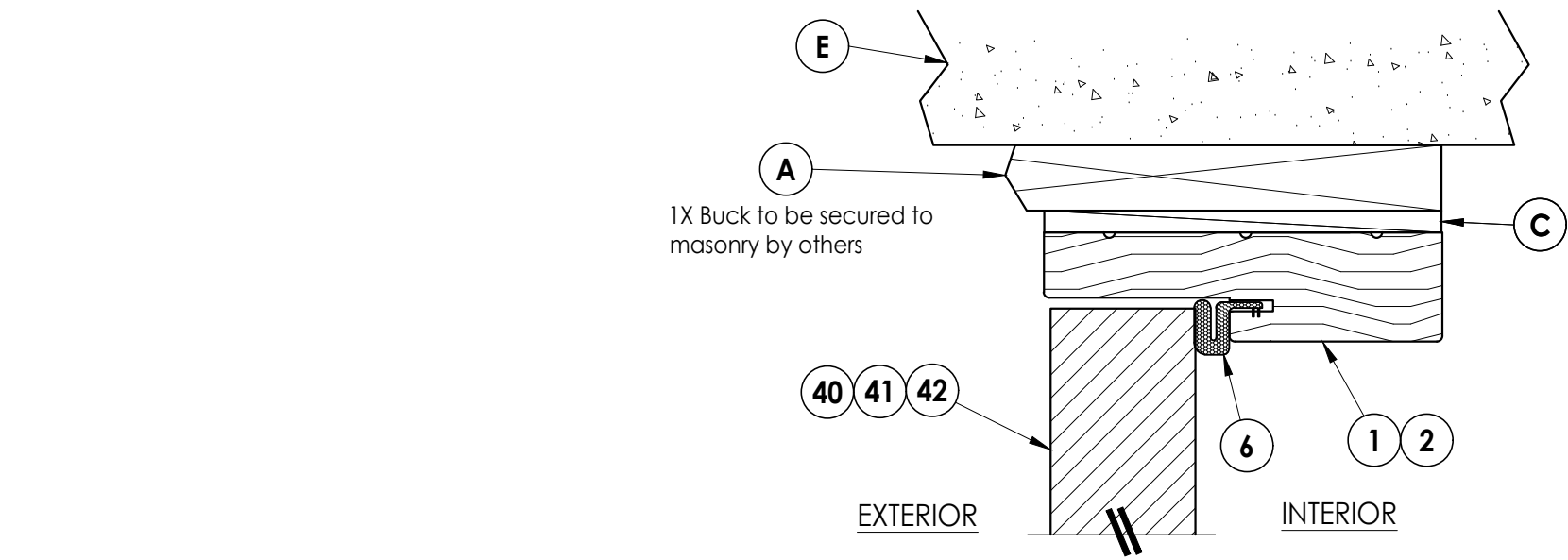
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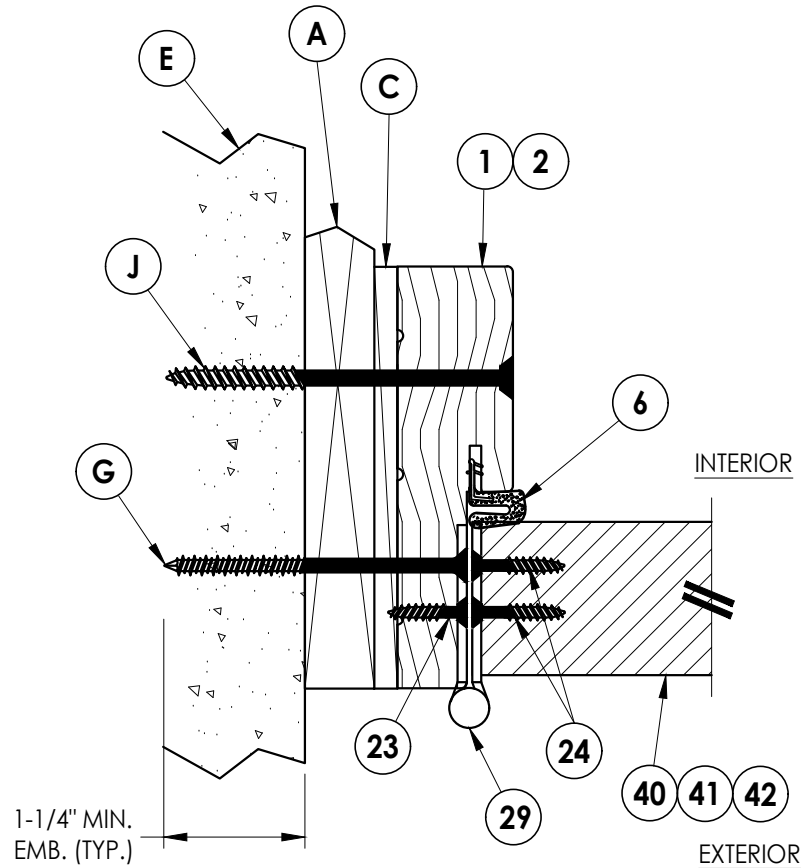
FL-13459.1

SHEET 4 OF 11

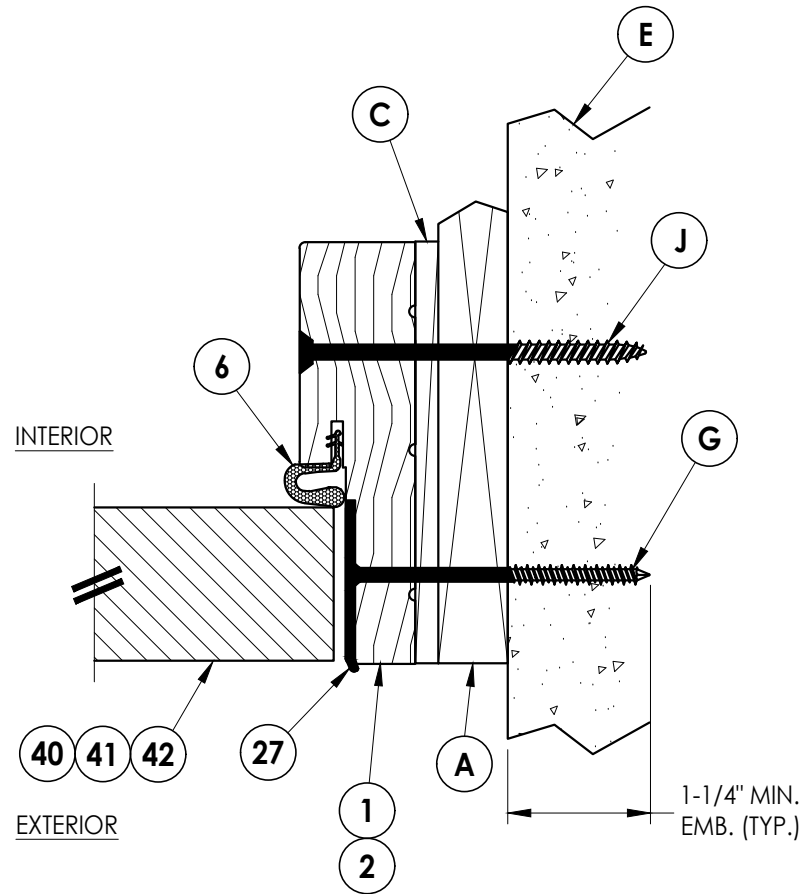
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1 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2 HORIZONTAL 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:
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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:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS			
		BY	CHK.	DATE	DESCRIPTION
4	7/02/26	UPDATE TO 9th ED (2026)	FBC	LFS	
3	7/10/23	UPDATE TO 8th ED (2023)	FBC	LFS	
2	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS	
1	7/17/19	UPDATE TO 6th ED (2017)	FBC	JK	

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

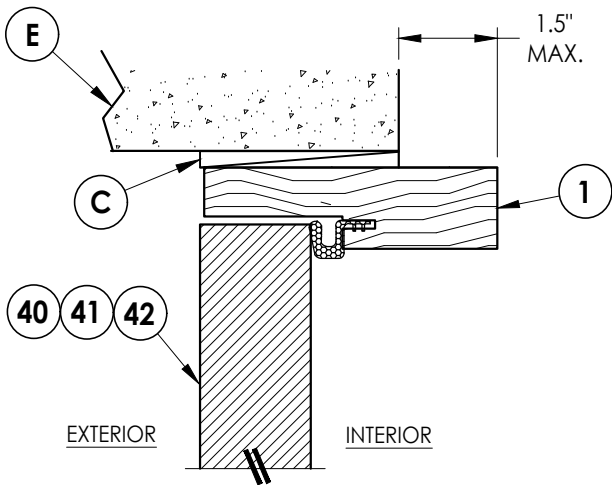
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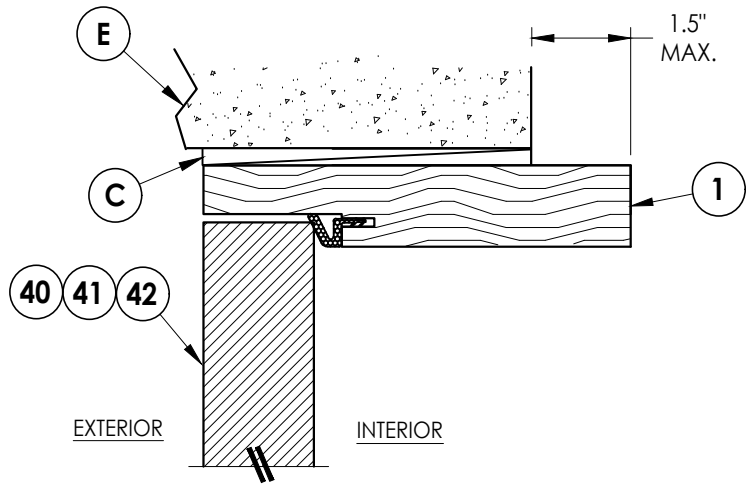
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SHEET 5 OF 11

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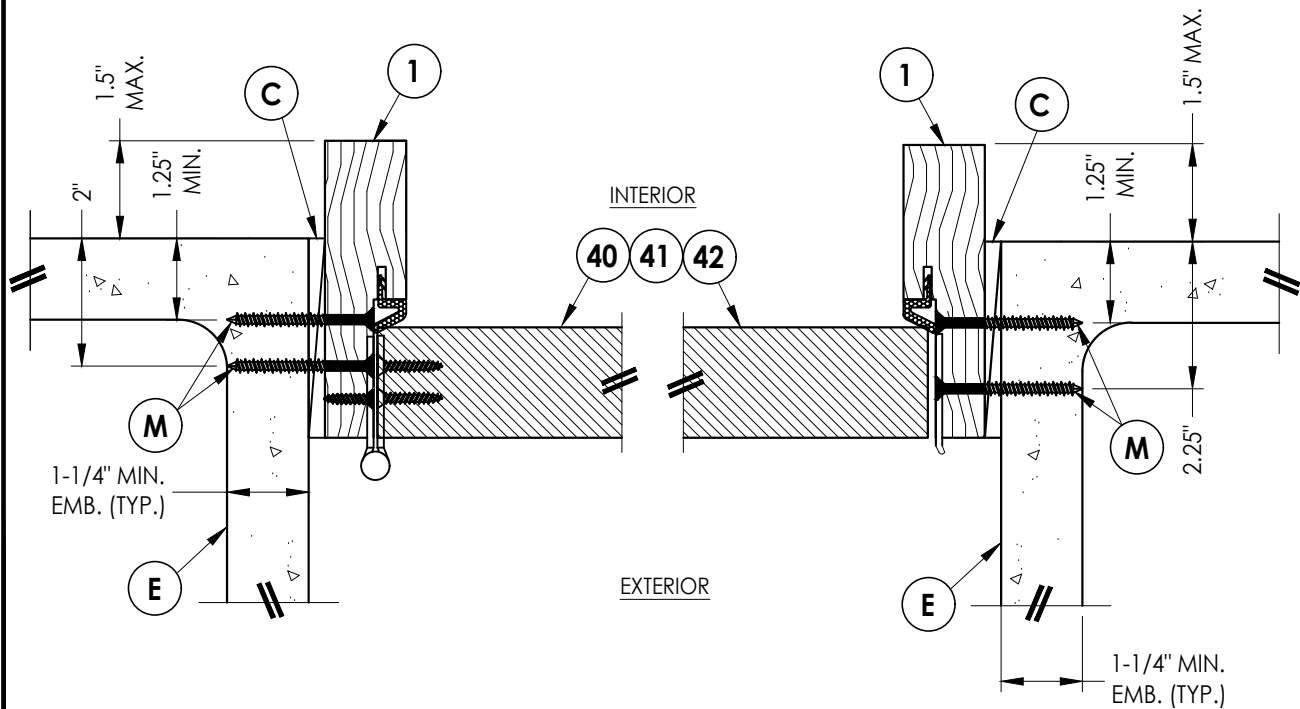


1/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

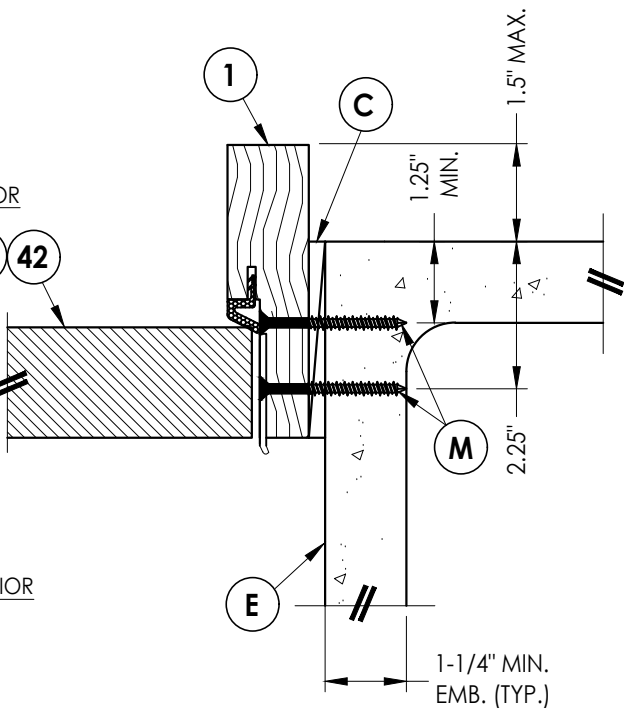


4/6 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

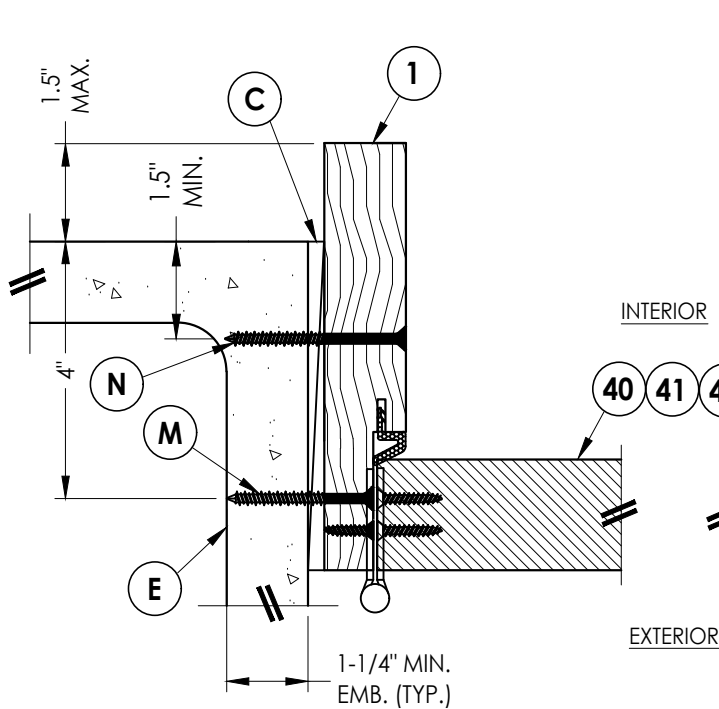
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 55 PSF
w/ SECURITY STRIKE = ± 65 PSF



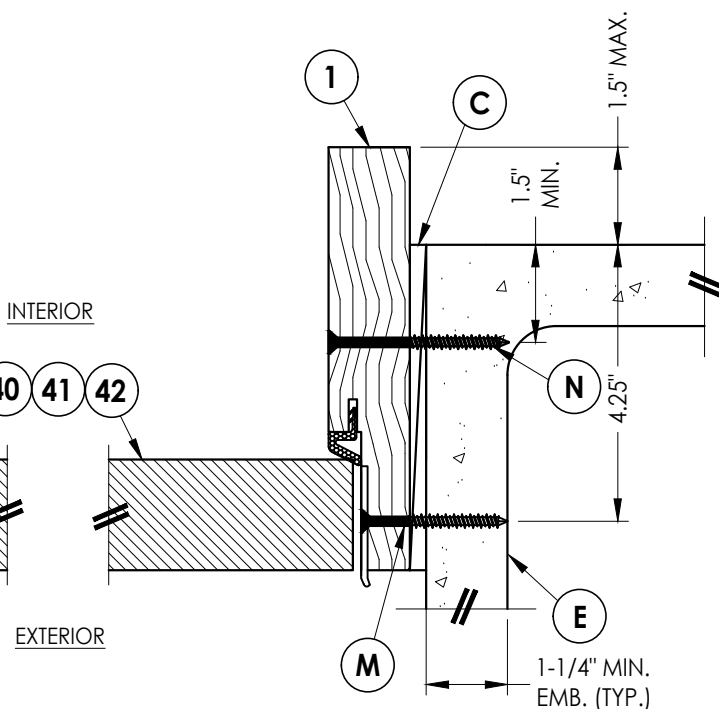
2/6 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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
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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:
HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9th ED (2026) FBC LFS
3	7/10/23	UPDATE TO 8th ED (2023) FBC LFS
2	7/14/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/17/19	UPDATE TO 6th ED (2017) FBC JK

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

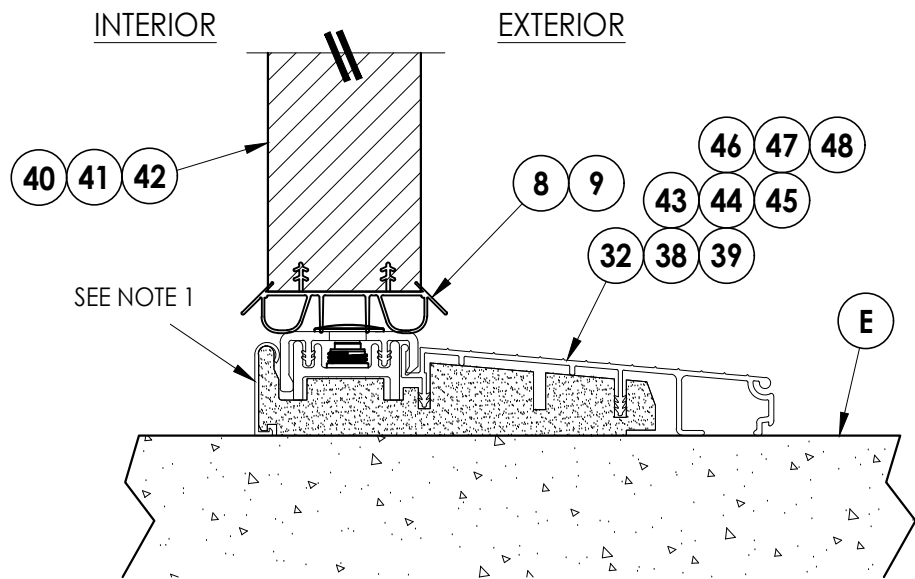
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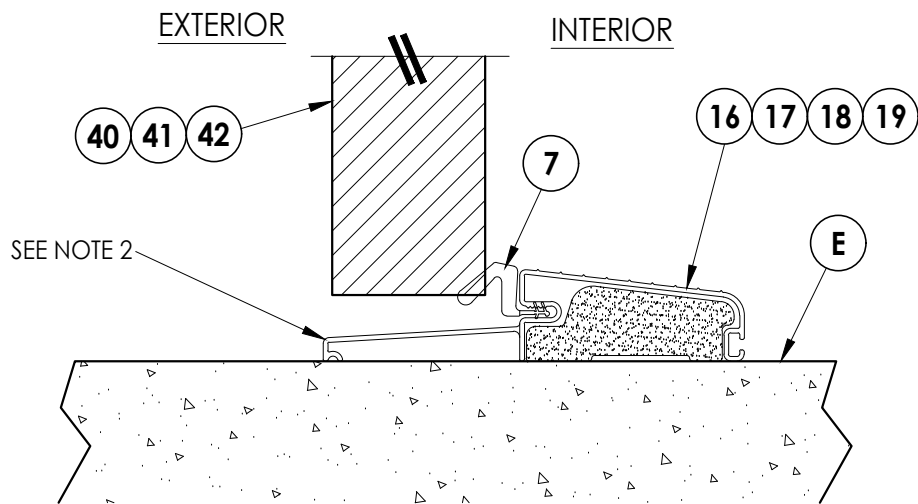
FL-13459.1

SHEET 6 OF 11

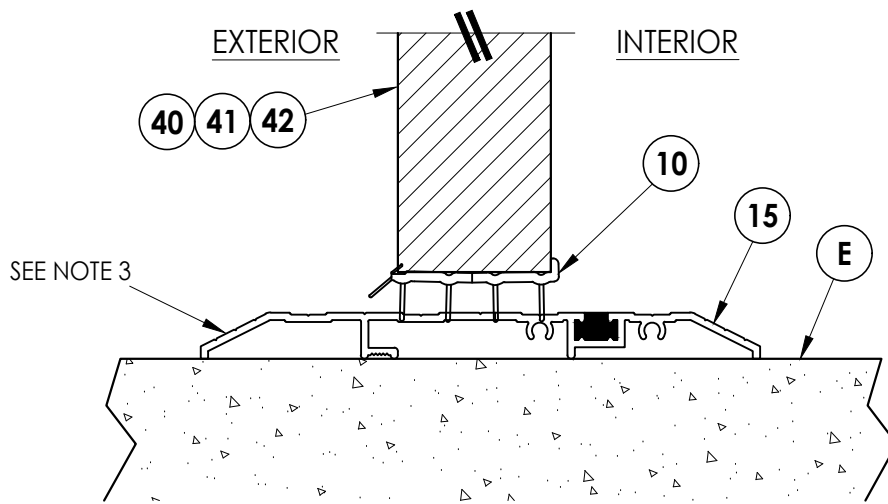
- Notes:
- Sill Item #'s 32, 38, 39, 43, 44, 45, 46, 47 & 48 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws or (3) 2.5" 16 GA. STAPLES at each end.
 - Sill Item #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
 - Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



1
7 **VERTICAL CROSS SECTION**
Inswing Sill



2
7 **VERTICAL CROSS SECTION**
Outswing Sill



3
7 **VERTICAL CROSS SECTION**
Public Access Sill

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:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS			
		DATE	BY	JK	LFS
4	7/02/26	UPDATE TO 9th ED (2026)	FBC	LFS	
3	7/10/23	UPDATE TO 8th ED (2023)	FBC	LFS	
2	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS	
1	7/17/19	UPDATE TO 6th ED (2017)	FBC	JK	

DATE: 4/28/15

SCALE: N.T.S.

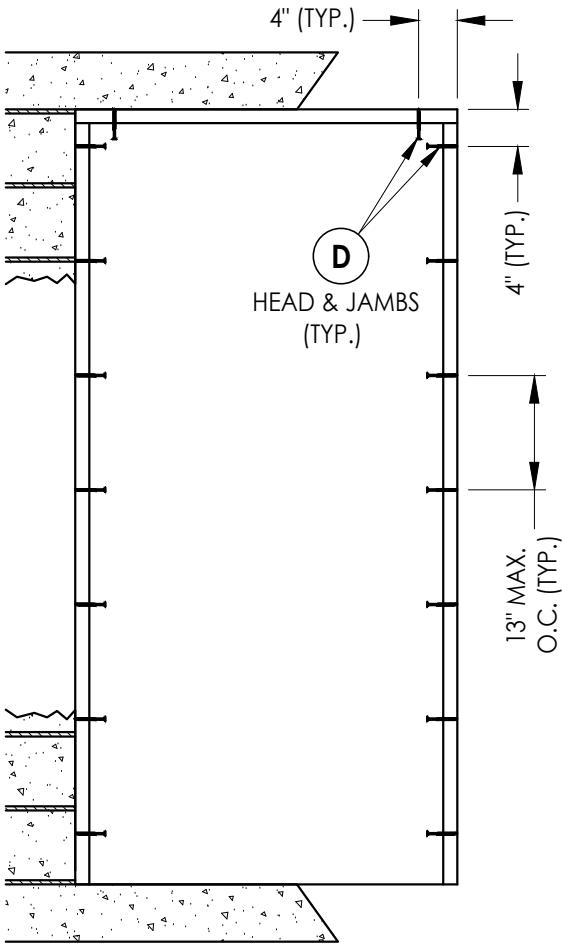
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CHK. BY: LFS

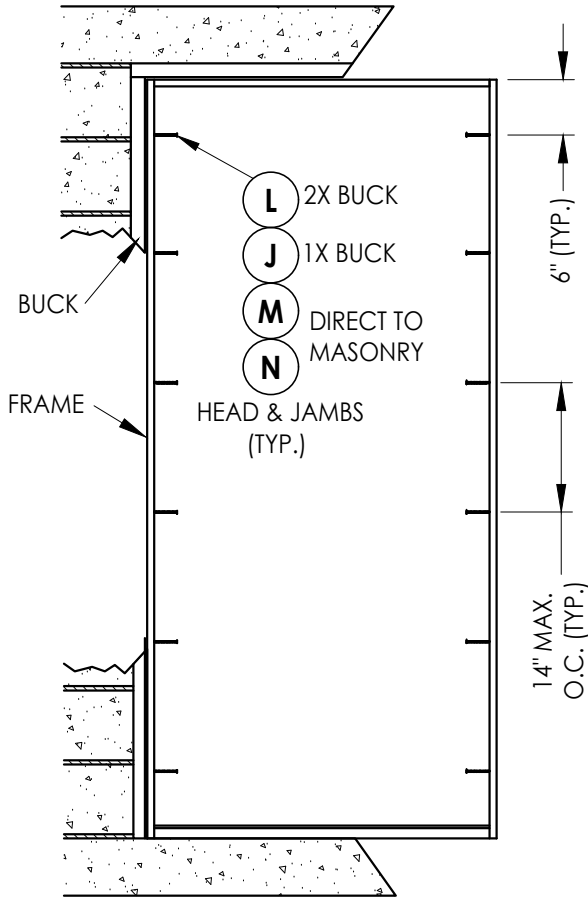
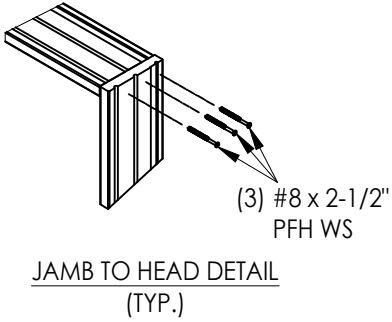
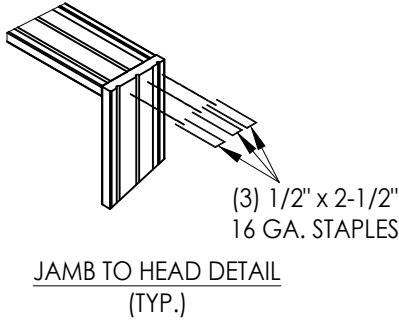
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FL-13459.1

SHEET 7 OF 11

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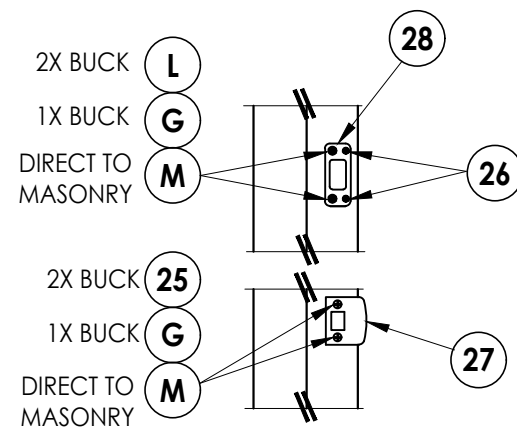


2X BUCK ANCHORING



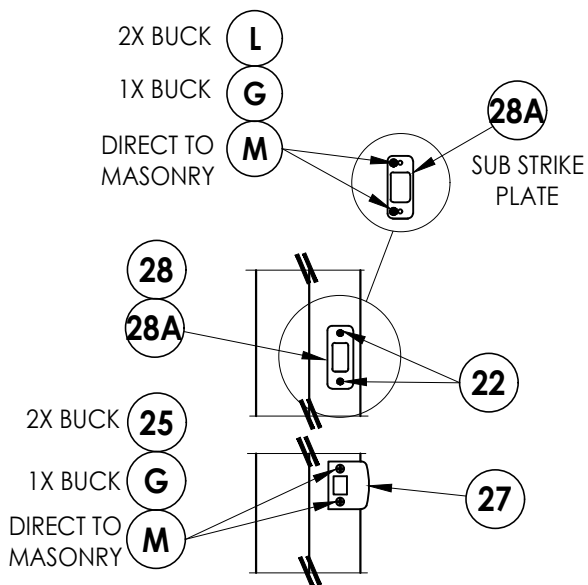
FRAME ANCHORING

DATE: 4/28/15				DOCUMENTS PREPARED BY: Lyndon F. Schmidt P.E. No. 43409			
SCALE: N.T.S.				<			



LATCH & DEADBOLT DETAIL

Kwikset

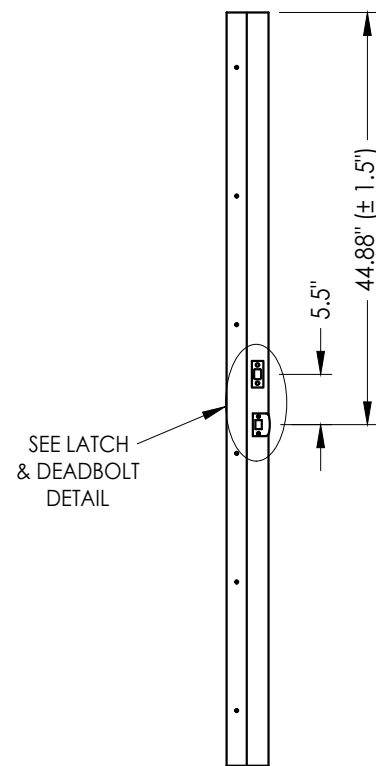


LATCH & DEADBOLT DETAIL

Schlage

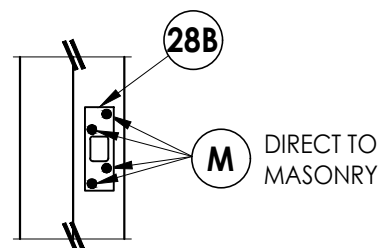
LATCH & DEADBOLT STRIKE DETAILS

(Standard Deadbolt Strike Plate)



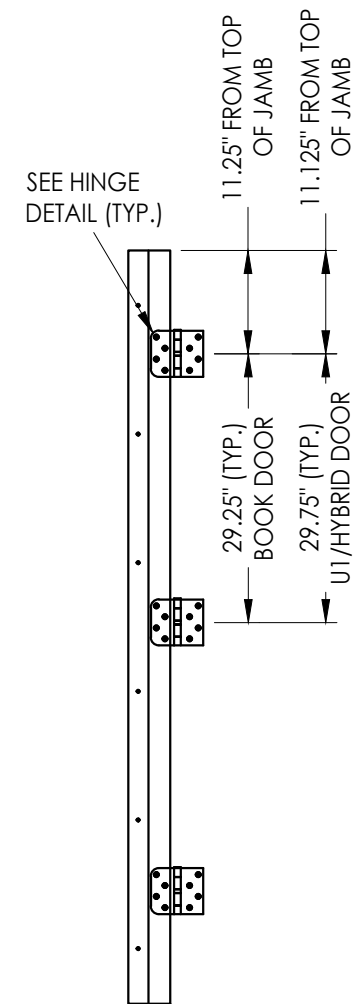
STRIKE JAMB

Latch and Deadbolt

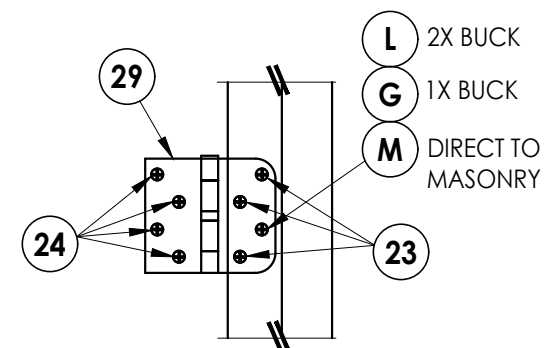


DEADBOLT STRIKE DETAILS

(Security Deadbolt Strike Plate)



HINGE JAMB



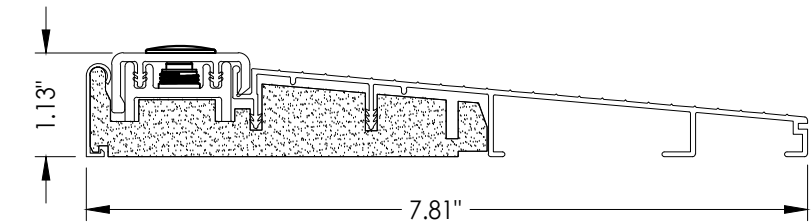
HINGE DETAIL

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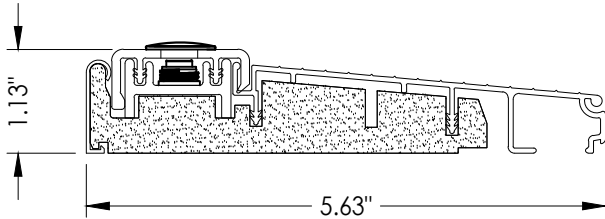
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RV BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813

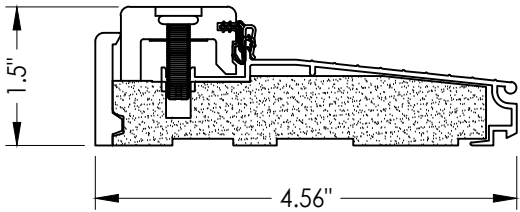
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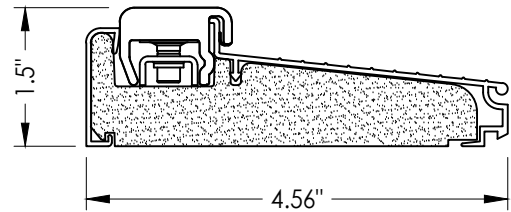
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



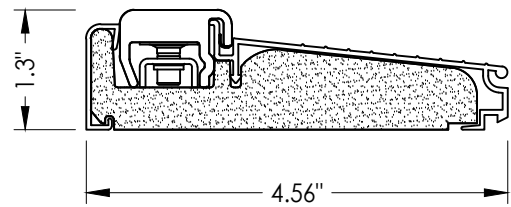
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



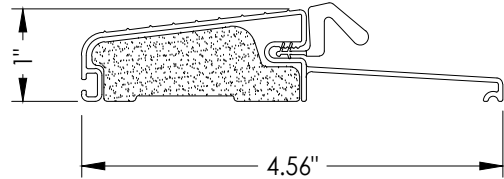
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



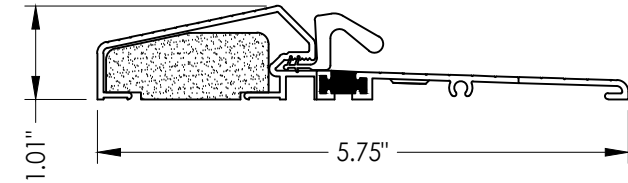
43 INSWING THRESHOLD
Inswing Composite Adjustable Sill Book, Hybrid



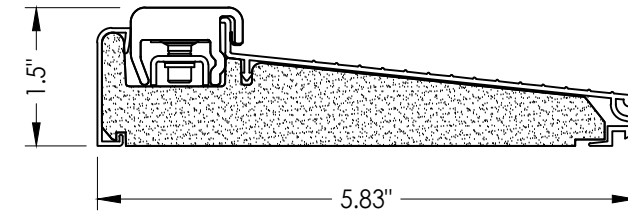
46 INSWING THRESHOLD
Inswing Composite Adjustable Sill U1



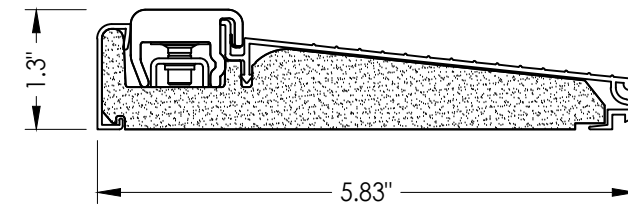
16 OUTSWING THRESHOLD
Composite Sill



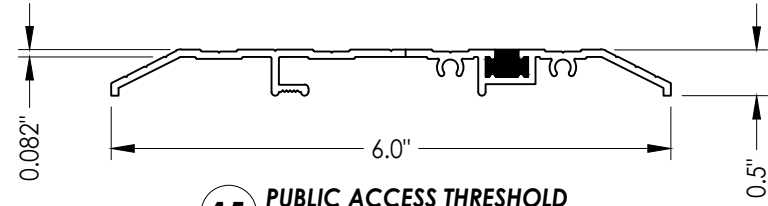
18 OUTSWING THRESHOLD
Composite / Aluminum Sill (Thermal Break)



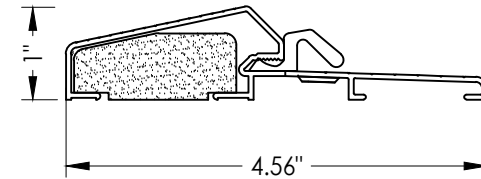
44 INSWING THRESHOLD
Inswing Composite Adjustable Sill Book, Hybrid



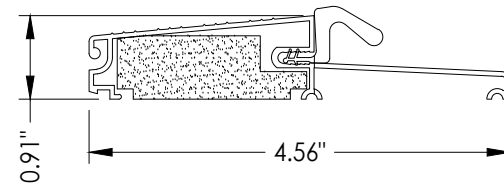
47 INSWING THRESHOLD
Inswing Composite Adjustable Sill U1



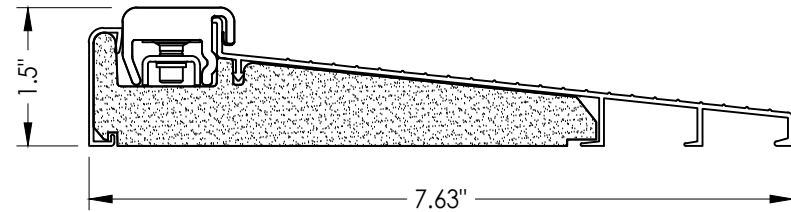
15 PUBLIC ACCESS THRESHOLD



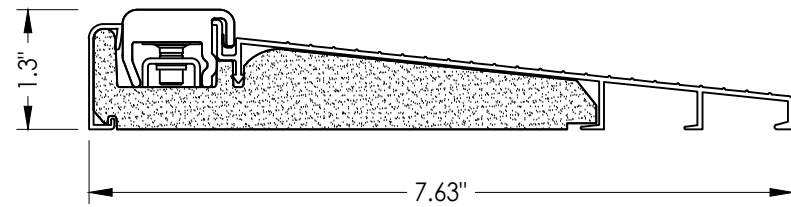
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



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:
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	JK	LFS	
4	7/02/26	UPDATE TO 9th ED (2026)	FBC	LFS		
3	7/10/23	UPDATE TO 8th ED (2023)	FBC	LFS		
2	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS		
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

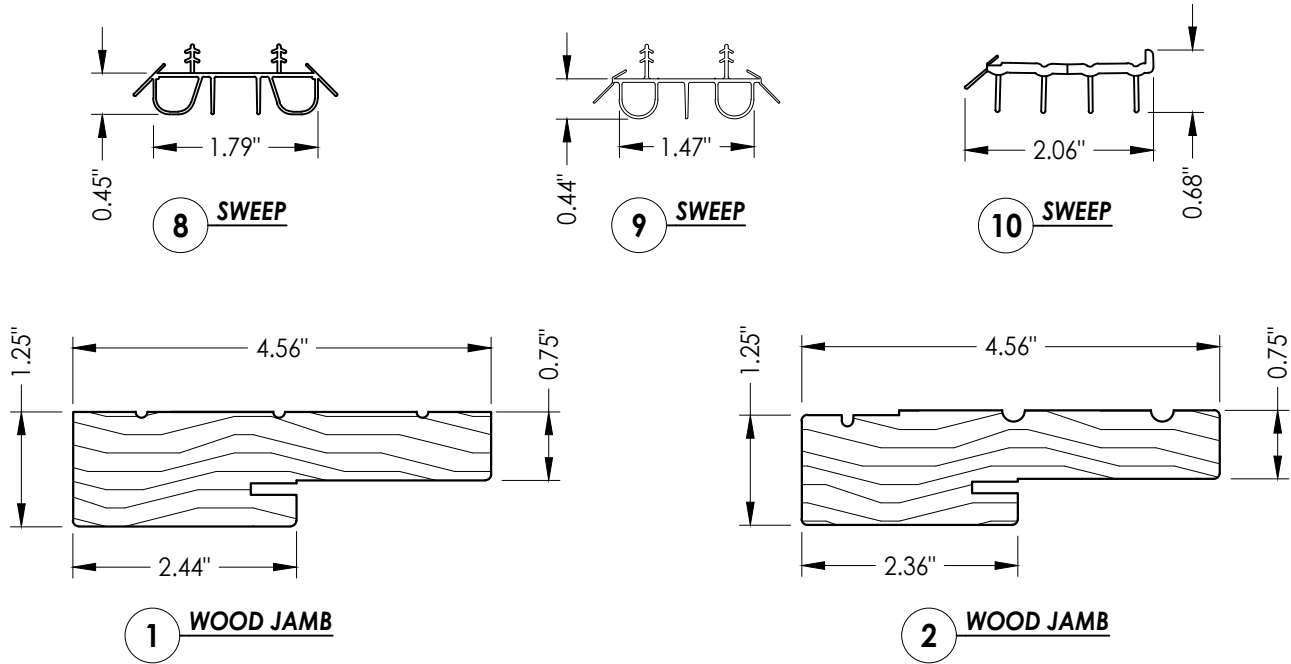
DRAWING NO.: FL-13459.1

SHEET 10 OF 11

G:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-13459 R8\FL-13459.1-4.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 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
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



CORROSION RESISTANCE - SALTWATER ENVIRONMENT
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.

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

PRODUCT:

Therma-Tru
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS &
BILL OF MATERIALS

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-13459.1

SHEET 11 OF 11

REVISIONS

NO.	DATE	BY	JK	LFS	FBC	(2017)	FBC	(2020)	FBC	(2023)	FBC	(2026)	ED	9th	UPDATE TO
4	7/02/26														
3	7/10/23														
2	7/14/20														
1	7/17/19														

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