



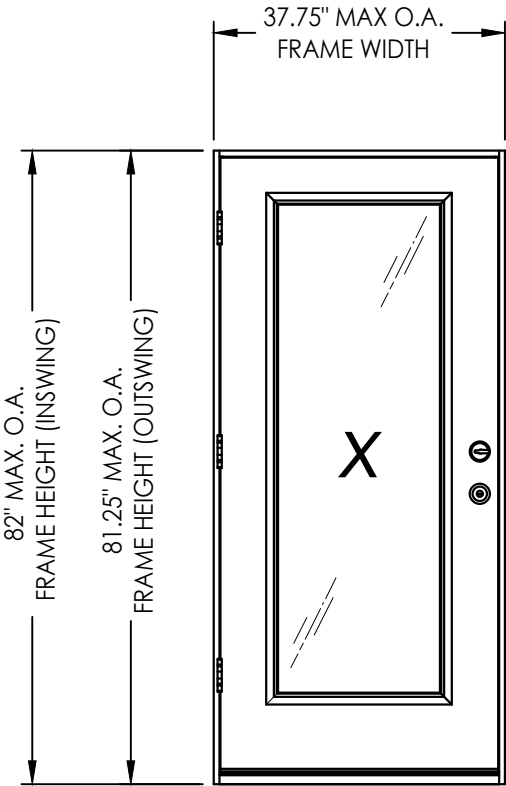
Fiber-Classic® & Smooth-Star®

GLAZED FIBERGLASS SINGLE DOOR
in a COMPOSITE FRAME
INSWING/OUTSWING
"IMPACT"

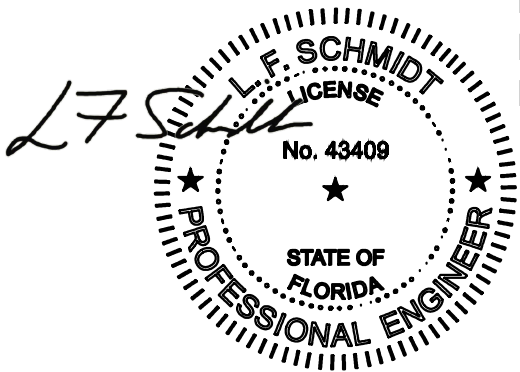
GENERAL NOTES

- 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 excludes 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 panel 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
2	Door Panel Details
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7	Buck & Frame Anchoring
8	Hardware Details
9	Lite Frame & Glazing Details
10	Bill of Materials & Components



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	+50.0	-55.0	+50.0	-50.0



Digitally signed by
Lyndon F Schmidt
Date: 2026.08.10
12:38:38 -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

DATE: 5/18/21

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-37182.4

SHEET 1 OF 10

REVISIONS

2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	7/27/23	UPDATE TO 8TH ED. (2023) FBC	LFS
	NO. 1	DATE	BY

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

The image contains two sets of technical drawings, labeled (A) and (B), showing cross-sections of window frames. Each set includes an exterior view (top) and an interior view (bottom).

Set (A) Composite:

- Exterior View:** Shows a cross-section of the top rail with a height dimension of 0.85". The label "TOP RAIL (COMPOSITE)" points to the upper part, and "FOAM CORE" points to the lower part.
- Interior View:** Shows the frame assembly with a central vertical element. A label "G1" is in a circle pointing to the central element. The label "FIBERGLASS SKIN" points to the outer casing.
- Bottom View:** Shows a cross-section of the bottom rail with a height dimension of 0.85" and a width dimension of 1.7". The label "BOTTOM RAIL (COMP.)" points to the rail.

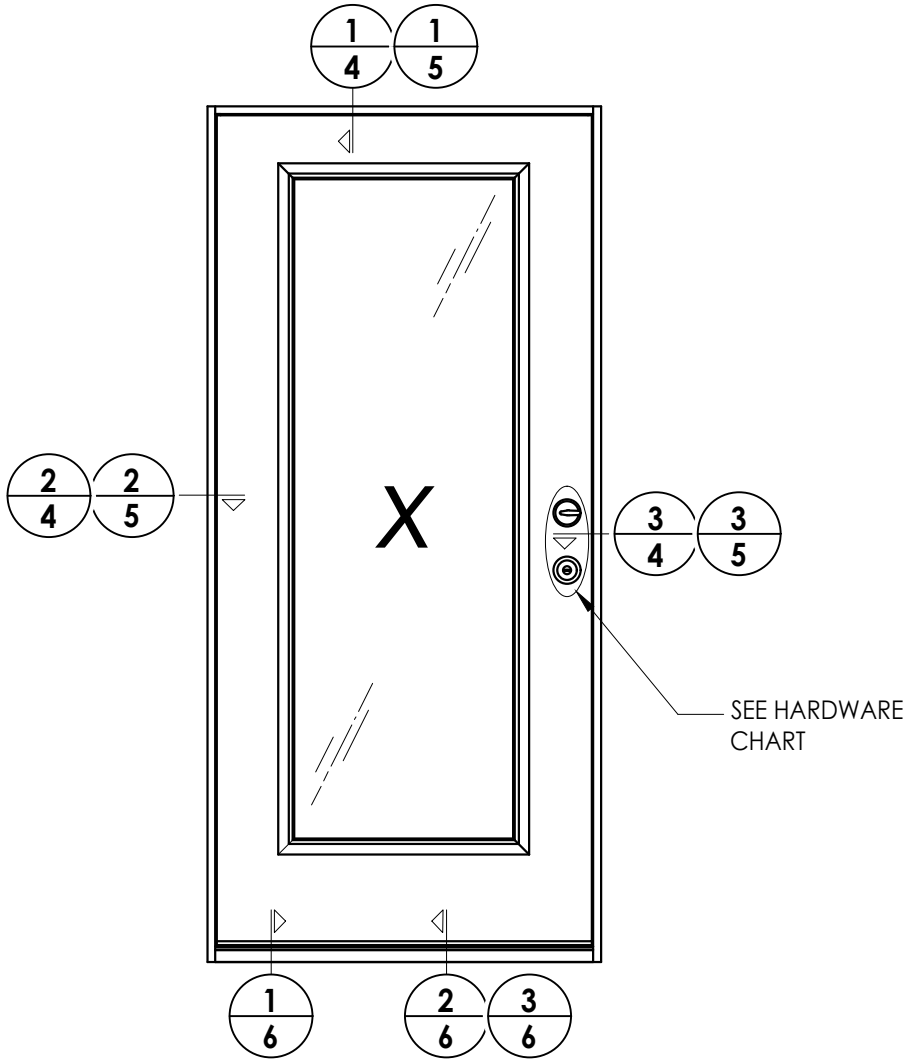
Set (B) Composite/Engineered Wood:

- Exterior View:** Shows a cross-section of the top rail with a height dimension of 0.85". The label "TOP RAIL (COMP./ENG. WOOD)" points to the upper part, and "FOAM CORE" points to the lower part.
- Interior View:** Shows the frame assembly with a central vertical element. A label "G1" is in a circle pointing to the central element. The label "FIBERGLASS SKIN" points to the outer casing.
- Bottom View:** Shows a cross-section of the bottom rail with a height dimension of 0.85" and a width dimension of 1.7". The label "BOTTOM RAIL (COMP.)" points to the rail.

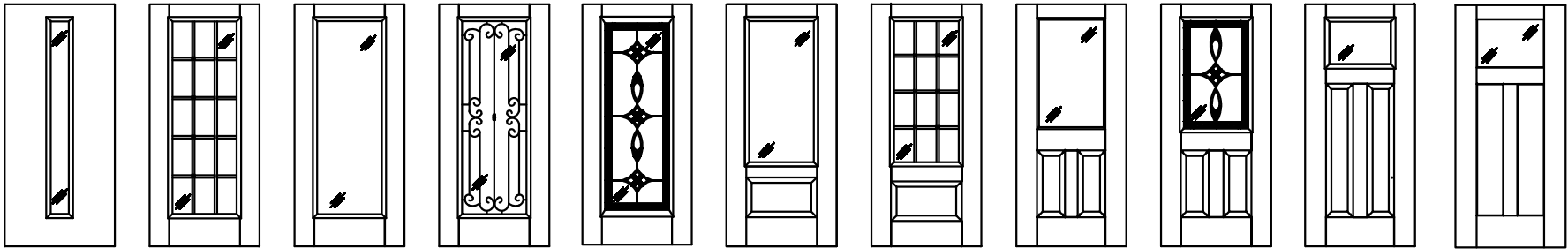
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HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)



Fiber-Classic/Smooth-Star 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.

DATE: 5/18/21

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-37182.4

SHEET 3 of 10

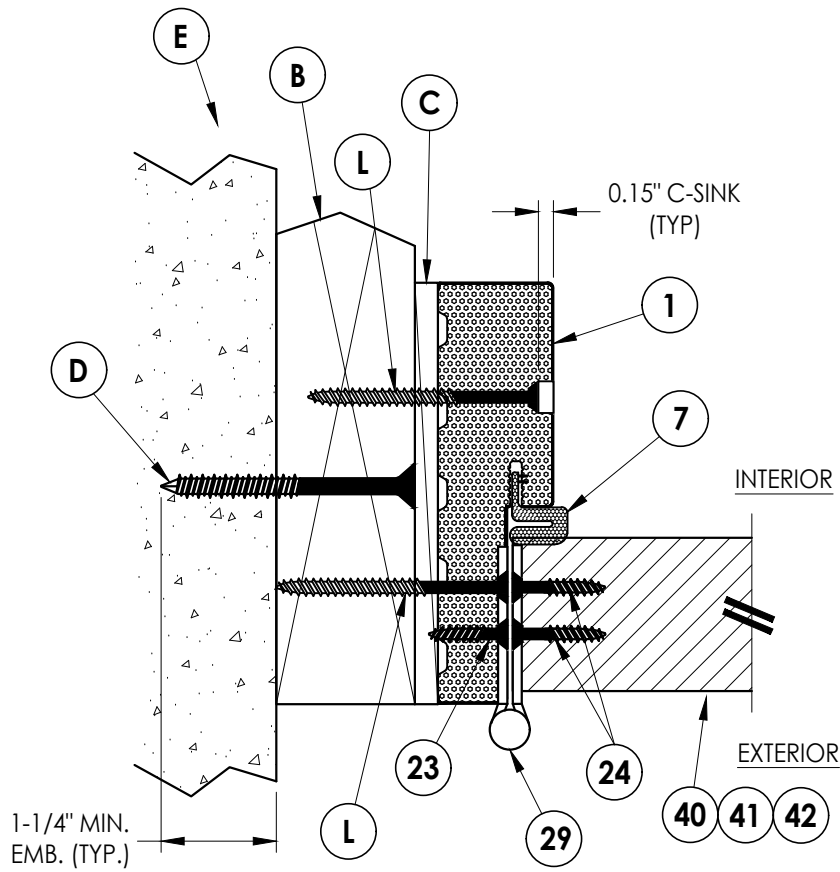
PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: ELEVATIONS

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1	7/27/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
NO.	DATE			BY

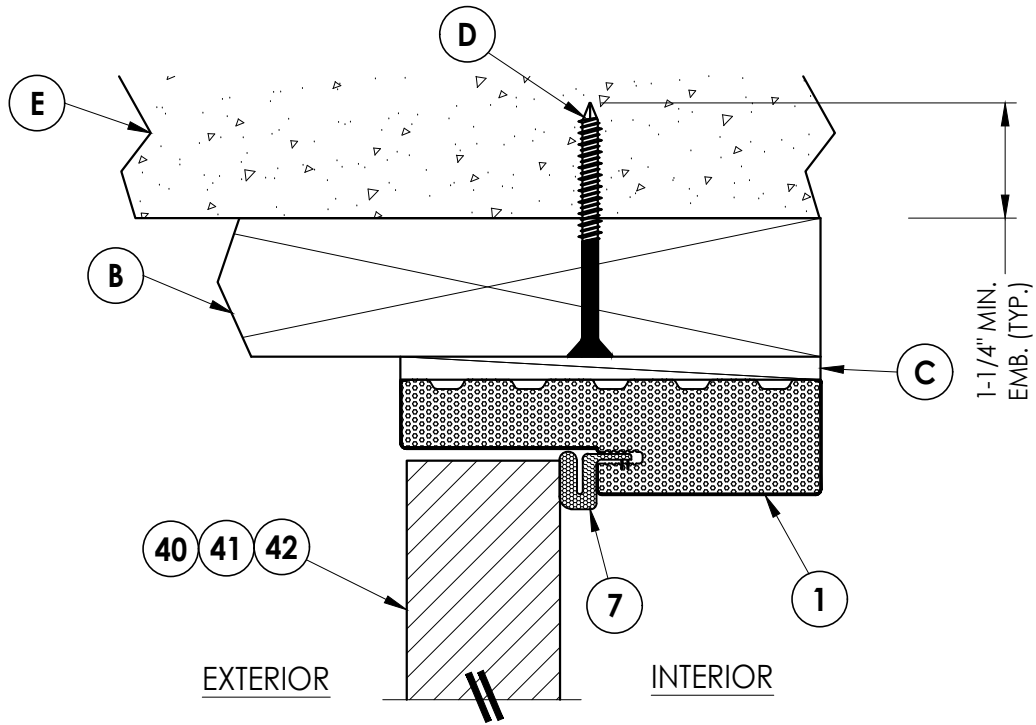
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

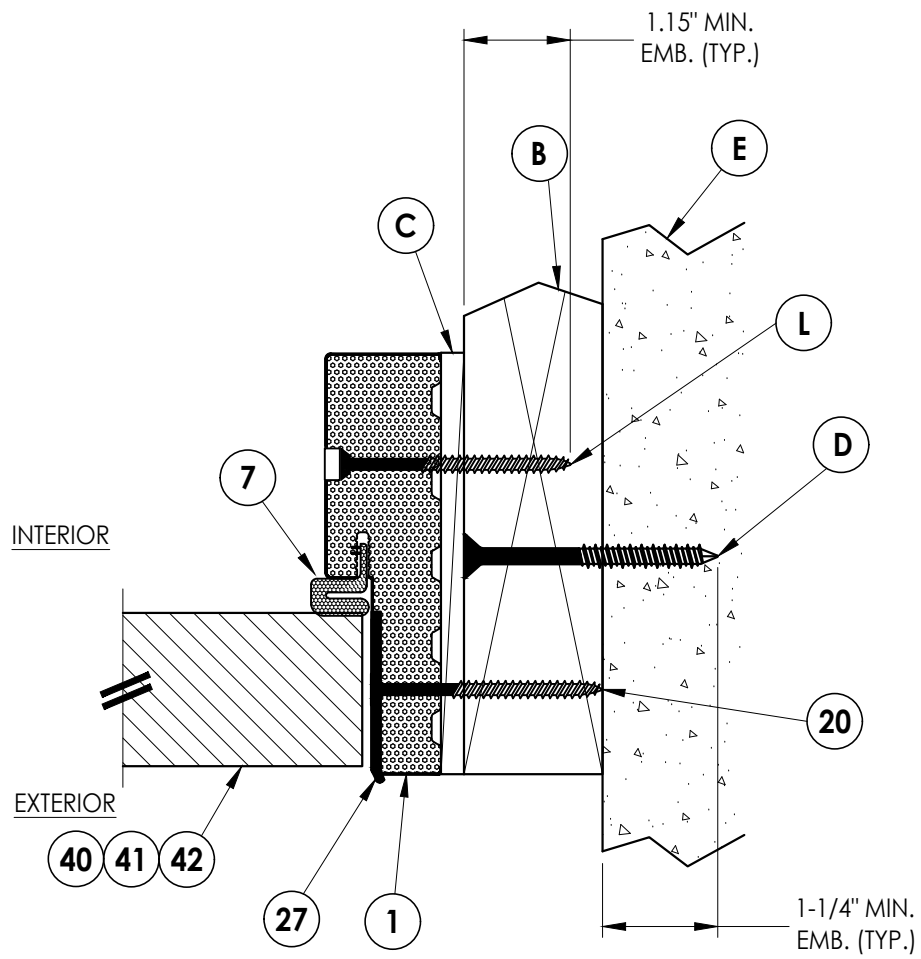


2 HORIZONTAL CROSS SECTION

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



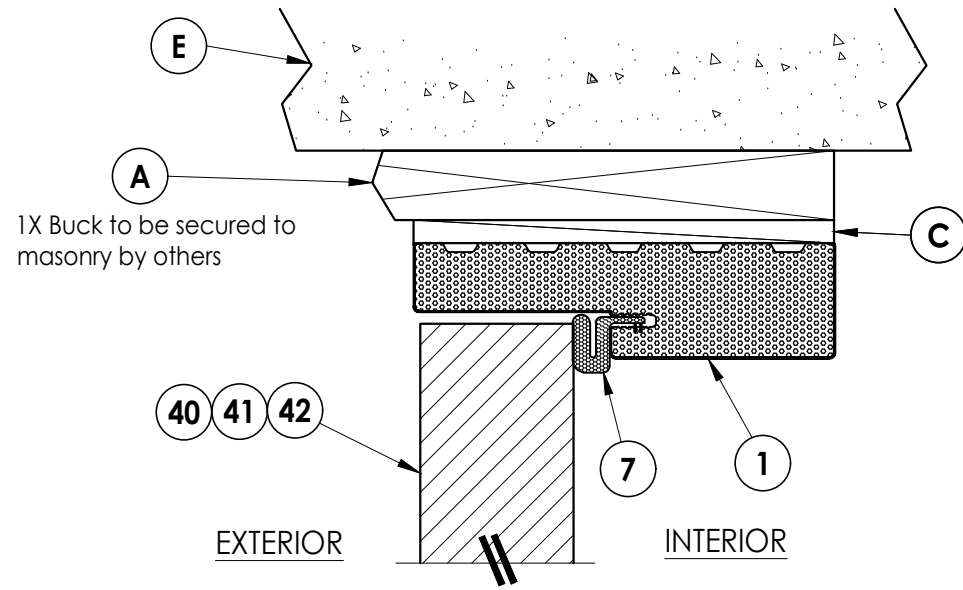
1 **VERTICAL CROSS SECTION**
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



3 **HORIZONTAL CROSS SECTION**

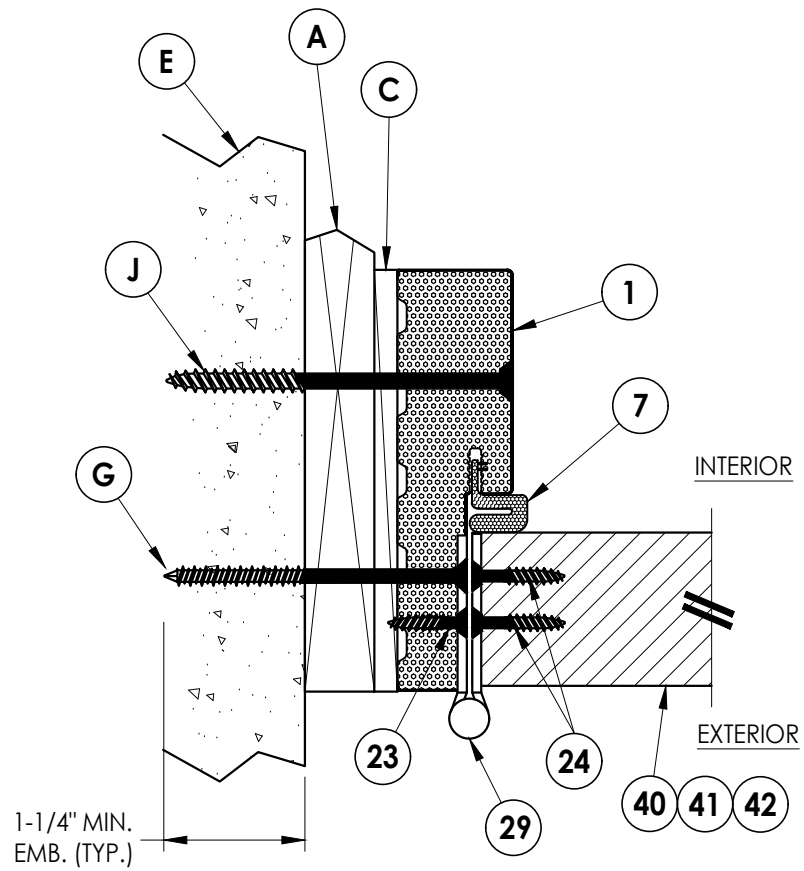
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)

DATE: 5/18/21		PRODUCT: THERMA-TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DWG. BY: RW		2 7/01/26 UPDATE TO 9TH ED. (2026) FBC LFS			
CHK. BY: LFS		1 7/27/23 UPDATE TO 8TH ED. (2023) FBC LFS			
DRAWING NO.: FL-37182.4		NO. DATE BY			
SHEET 4 OF 10		REVISIONS			



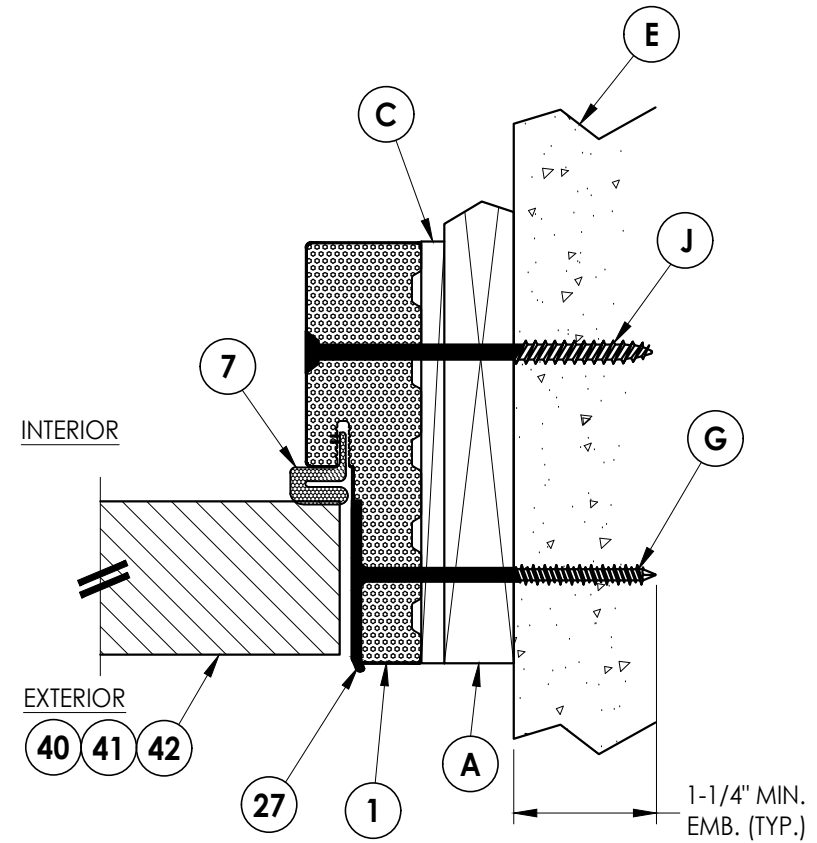
1 5 **VERTICAL CROSS SECTION**

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



2 HORIZONTAL CROSS SECTION

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



3 **HORIZONTAL CROSS SECTION**

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

2	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS						
1	7/27/23	UPDATE TO 8TH ED. (2023)	FBC	LFS						
NO.	DATE			BY						
					REVISIONS					
DATE: 5/18/21										
SCALE: N.T.S.										
DWG. BY: RW										
CHK. BY: LFS										
DRAWING NO.: FL-37182.4										
SHEET 5 OF 10										

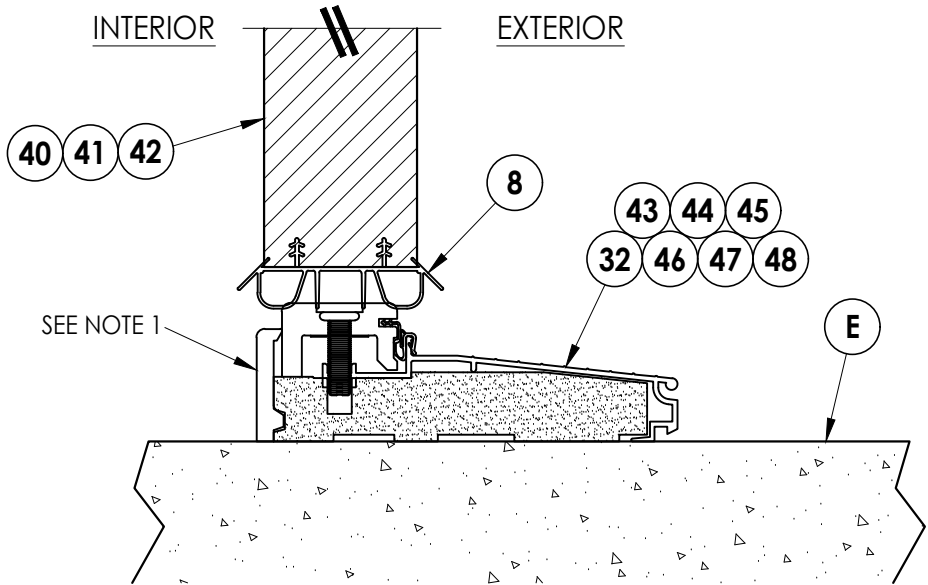
PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)

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P.E. No. 43409

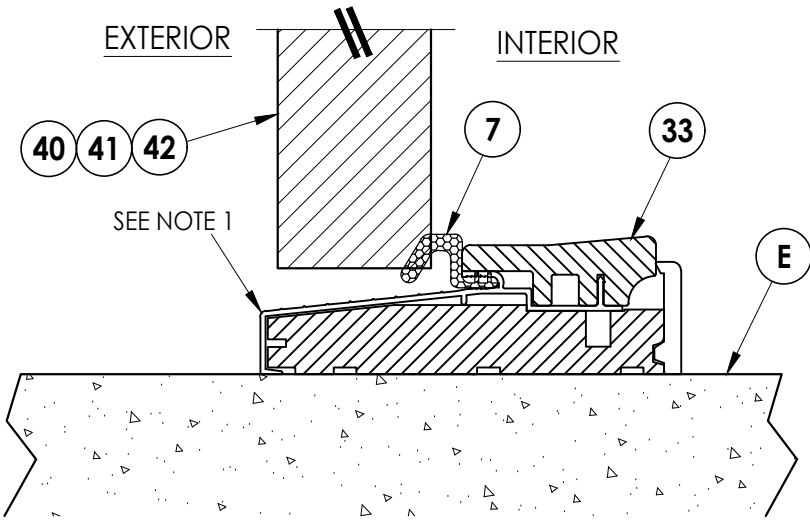
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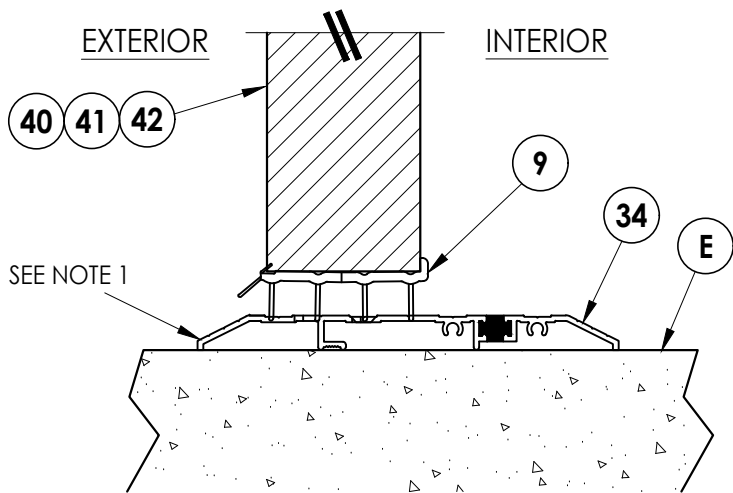
Note:
1. Sill Item #32, #43-48 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #33 is attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
Sill Item #34 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.



1
6 **VERTICAL CROSS SECTION**
Inswing Sill



2
6 **VERTICAL CROSS SECTION**
Outswing Sill



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

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

PRODUCT:	THERMA-TRU FIBERGLASS DOOR		
	PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)		

NO.	DATE	REVISIONS		
		DATE	BY	DESCRIPTION
2	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
1	7/27/23	UPDATE TO 8TH ED. (2023)	FBC	LFS

DATE: 5/18/21

SCALE: N.T.S.

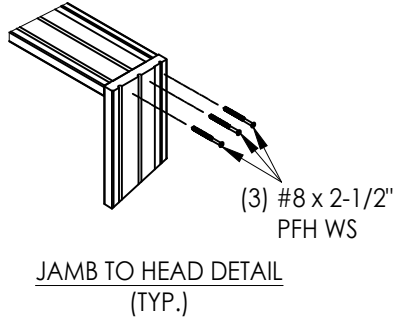
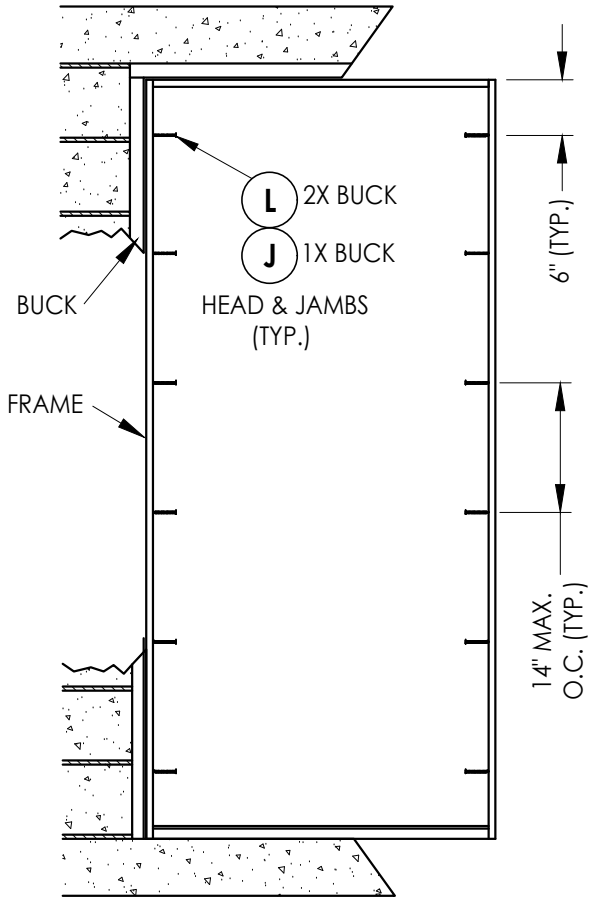
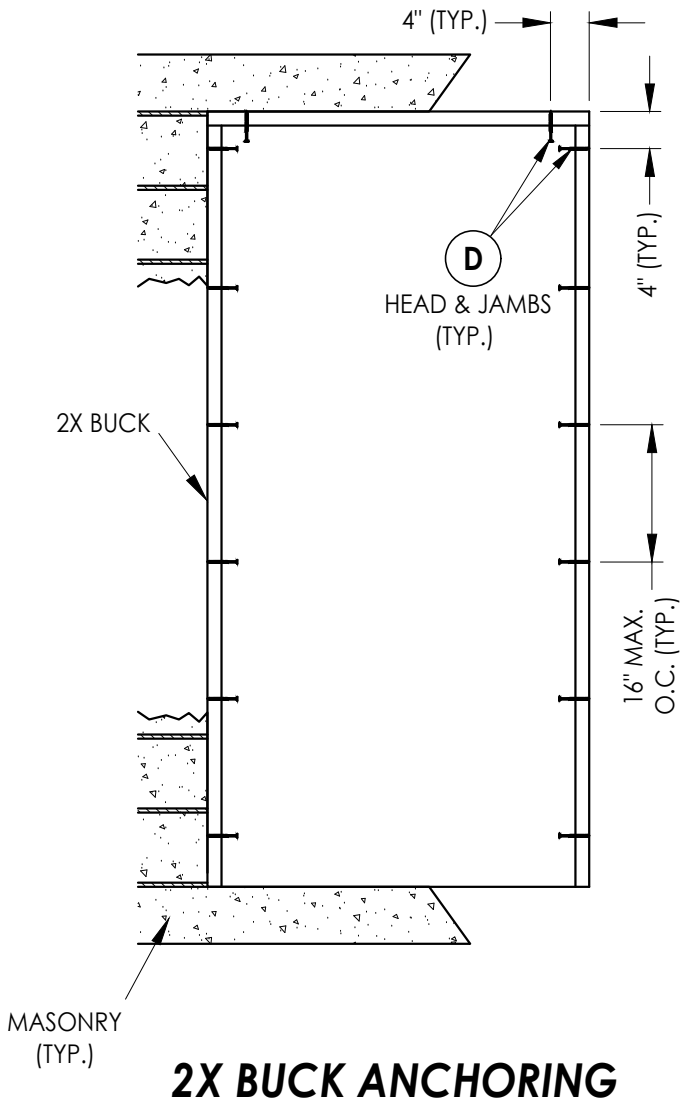
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CHK. BY: LFS

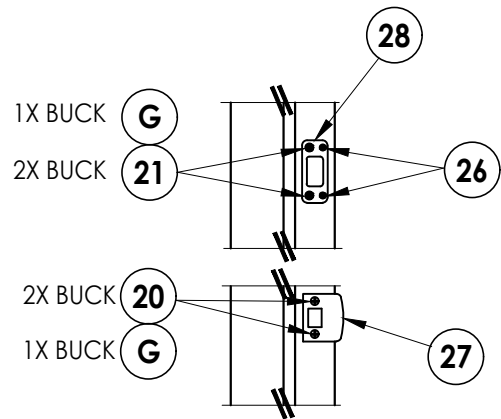
DRAWING NO.: FL-37182.4

SHEET 6 OF 10

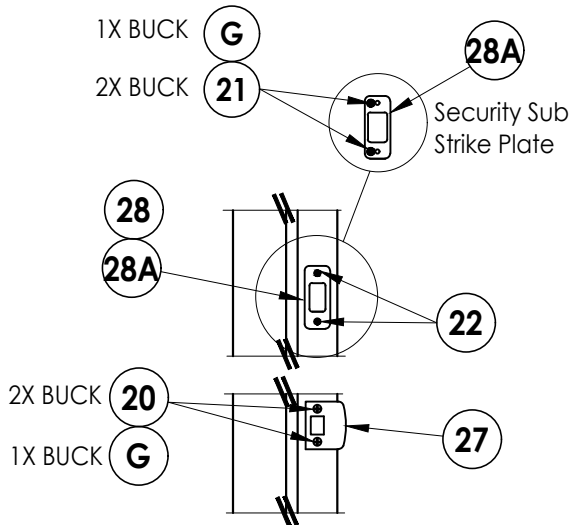
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DATE: 5/18/21		SHEET 7 OF 10	
SCALE: N.T.S.		DRAWING NO.: FL-37182.4	
DWG. BY: RW		CHK. BY: LFS	
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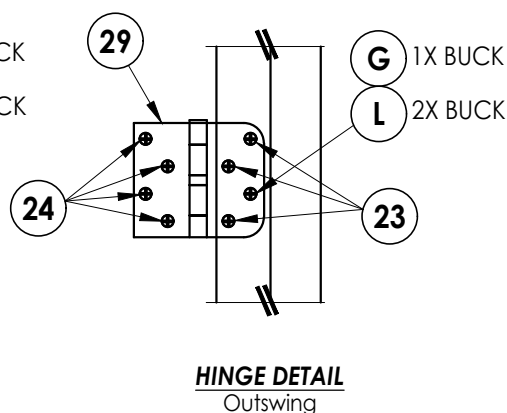
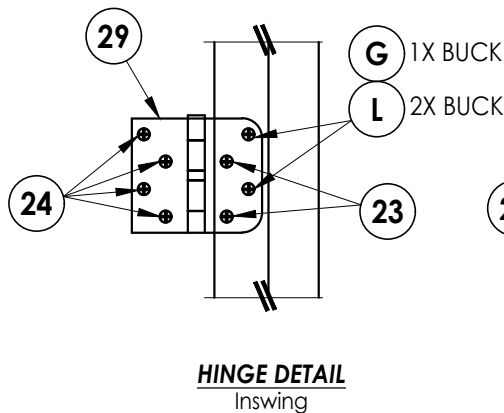
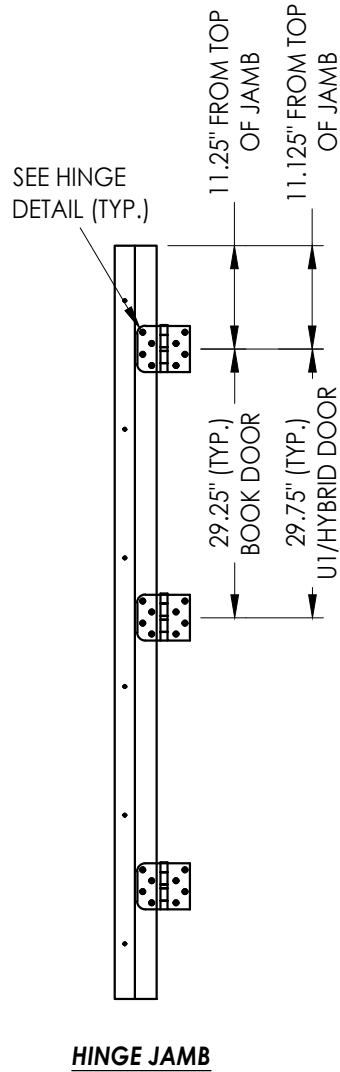
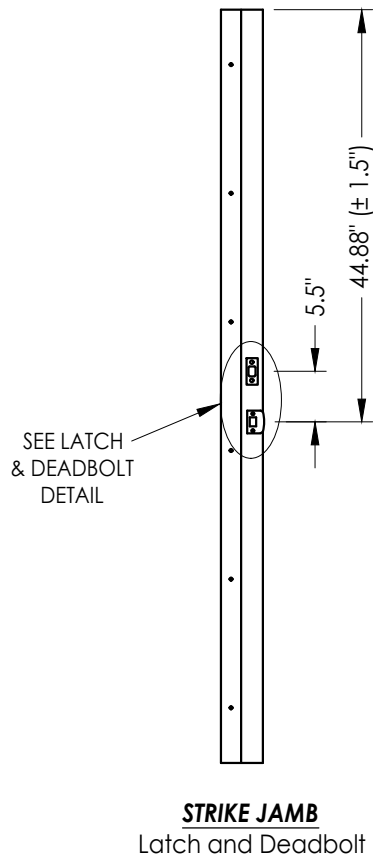


LATCH & DEADBOLT DETAIL
Kwikset

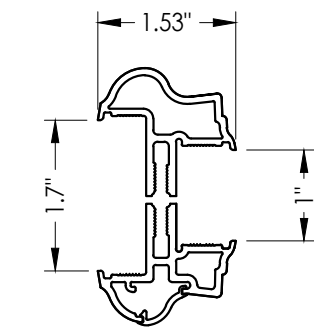
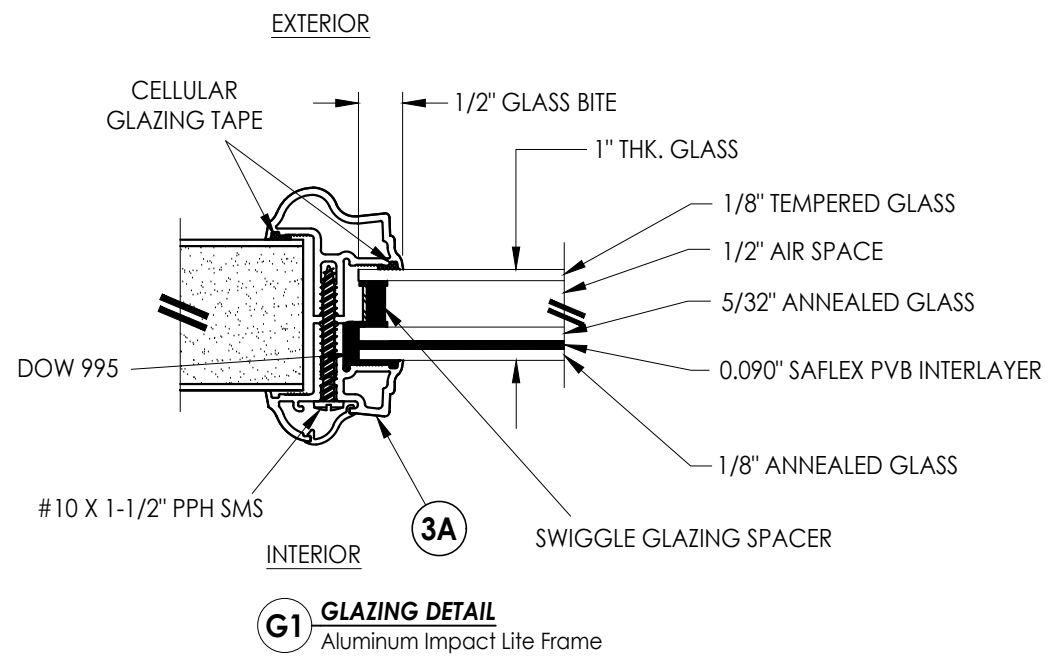


LATCH & DEADBOLT DETAIL
Schlage

LATCH & DEADBOLT STRIKE DETAILS



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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HARDWARE DETAILS					
				LFS	FBC	LFS	BY
				2	7/01/26	UPDATE TO 9TH ED. (2026)	
				1	7/27/23	UPDATE TO 8TH ED. (2023)	
				NO.	DATE		
				REVISIONS			
DATE: 5/18/21							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-37182.4							
SHEET 8 OF 10							



3A ALUMINUM FRAME

Aluminum Impact Lite Frame

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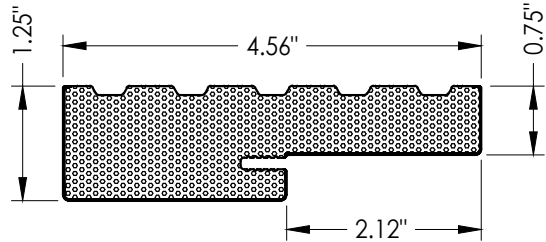
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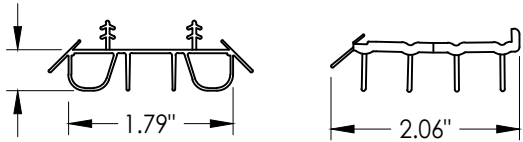
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2" PFH WOOD SCREW	STEEL
G	3/16" X 3-1/4" PFH 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
1	COMPOSITE JAMB	COMP
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
20	#8 X 2-1/2" PFH WOOD SCREW	STEEL
21	#12 X 2-1/2" PFH WOOD SCREW	STEEL
22	#8 X 3/4" PFH WOOD SCREW	STEEL
23	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#9 X 1" 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	STEEL
28A	DEADBOLT SUB-STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
33	OUTSWING THRESHOLD	ALUM/COMP
34	PUBLIC ACCESS THRESHOLD	ALUM
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

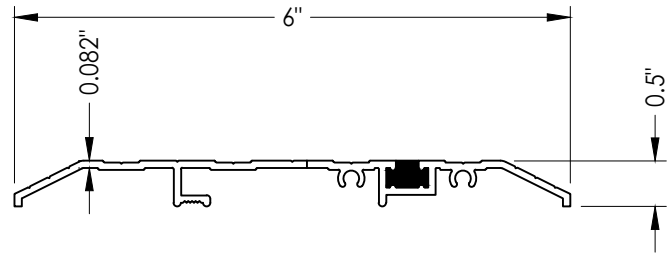


1 COMPOSITE JAMB



8 SWEEP

9 SWEEP



34 PUBLIC ACCESS THRESHOLD

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.

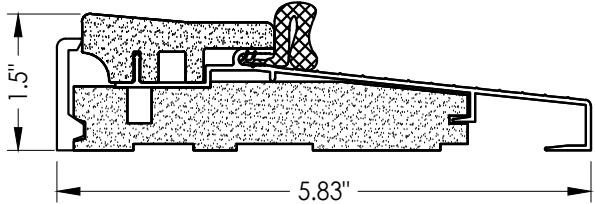
CONCRETE ANCHOR NOTES:

- 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:

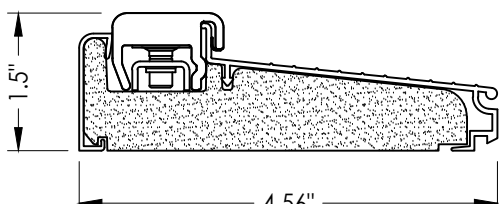
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	AS SHOWN

WOOD SCREW INSTALLATION NOTES:

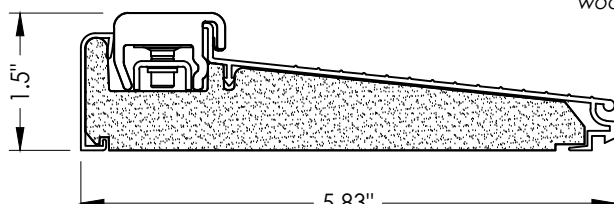
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



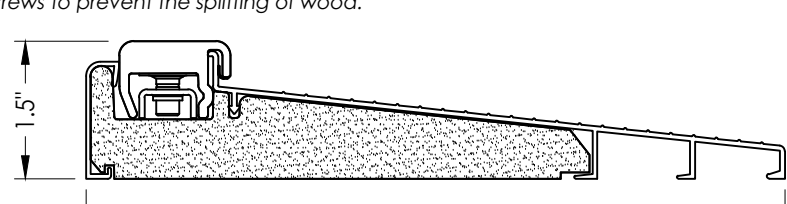
33 OUTSWING THRESHOLD
Composite / Aluminum Sill



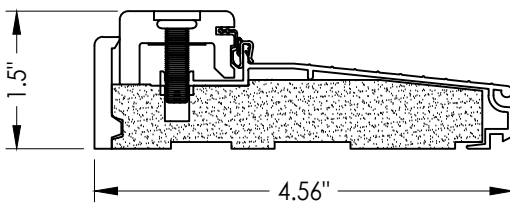
43 INSWING THRESHOLD
Inswing Composite Adjustable Sill Book, Hybrid



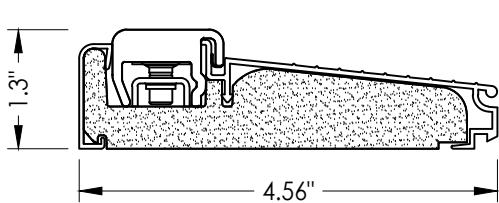
44 INSWING THRESHOLD
Inswing Composite Adjustable Sill Book, Hybrid



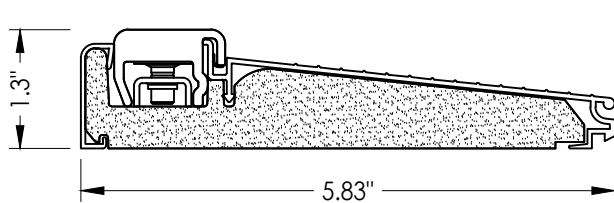
45 INSWING THRESHOLD
Inswing Composite Adjustable Sill Book, Hybrid



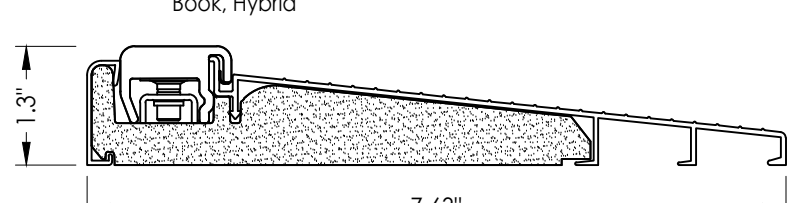
32 INSWING THRESHOLD
Adjustable Composite Sill



46 INSWING THRESHOLD
Inswing Composite Adjustable Sill U1



47 INSWING THRESHOLD
Inswing Composite Adjustable Sill U1



48 INSWING THRESHOLD
Inswing Composite Adjustable Sill U1

Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC
1	7/27/23	UPDATE TO 8TH ED. (2023) FBC

DATE:	5/18/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-37182.4
SHEET	10 of 10