



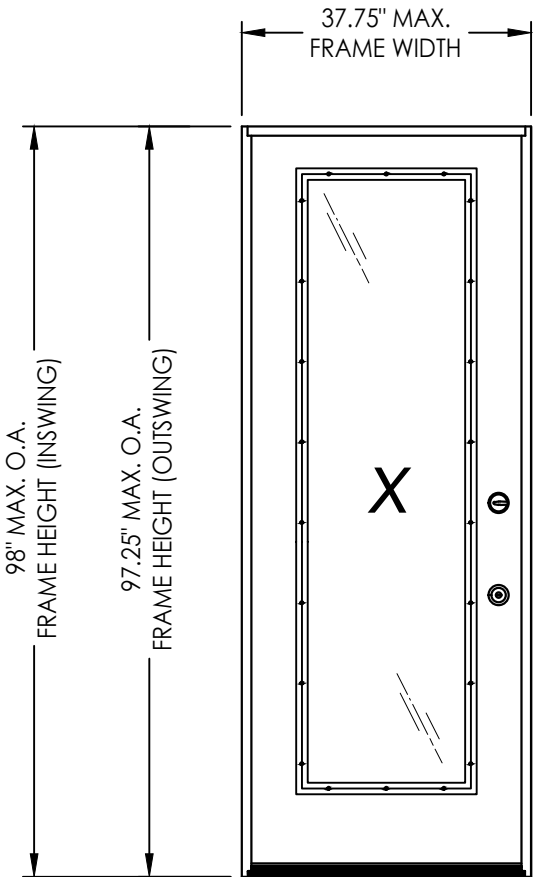
Fiber-Classic® & Smooth-Star®

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

GENERAL NOTES

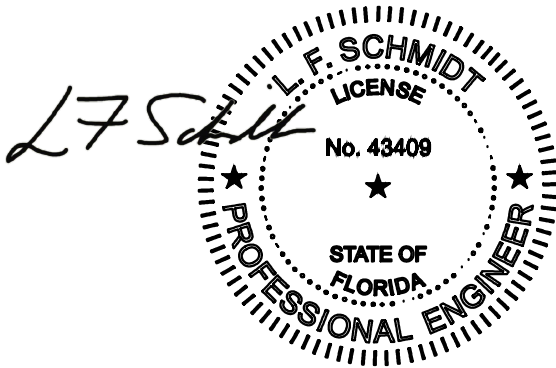
1. This product evaluation drawing has been developed in compliance with the 9th Edition (2026) Florida Building Code (FBC) including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall 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. This product meets the water infiltration requirements for the "HVHZ".
8. Outswing configurations using Coastal Sill (item #19) & Composite Sill (item #16) under active doors meet water infiltration requirements for "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.

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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	Glazing Details
11	Components
12	Components & Bill of Materials



CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Latch & Deadbolt	+50.0	-55.0	+50.0	-50.0
X	Multipoint	+50.0	-55.0	+55.0	-55.0

See Sheet 3 for Hardware Specifications



Digitally signed by
Lyndon F Schmidt
Date: 2026.08.07
13:46:20 -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

THERMA-TRU
FIBERGLASS DOOR

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

7/02/26
4

8/18/23
3

7/15/20
2

4/06/19
1

DATE

NO.

DATE

REVISIONS

UPDATE TO 9TH ED. (2026) FBC

UPDATE TO 8TH ED. (2023) FBC

UPDATE TO 7th ED (2020) FBC

ADD 5-1/2" LATCH/DB SPACING

LFS

LFS

PO

LFS

BY

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

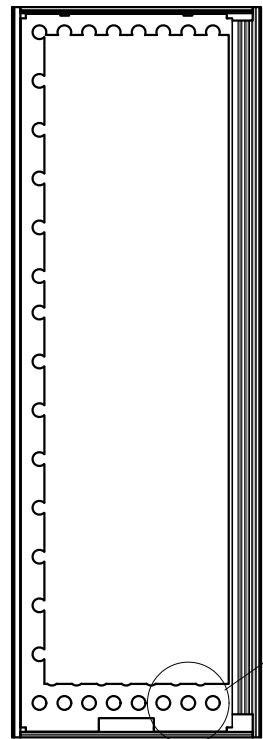
DRAWING NO.: FL-21142.10

SHEET 1 OF 12

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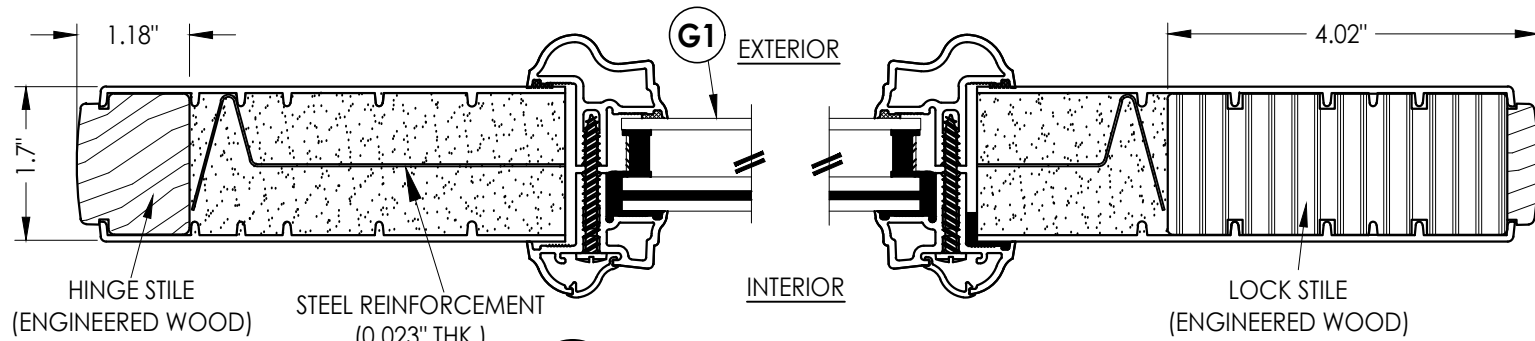
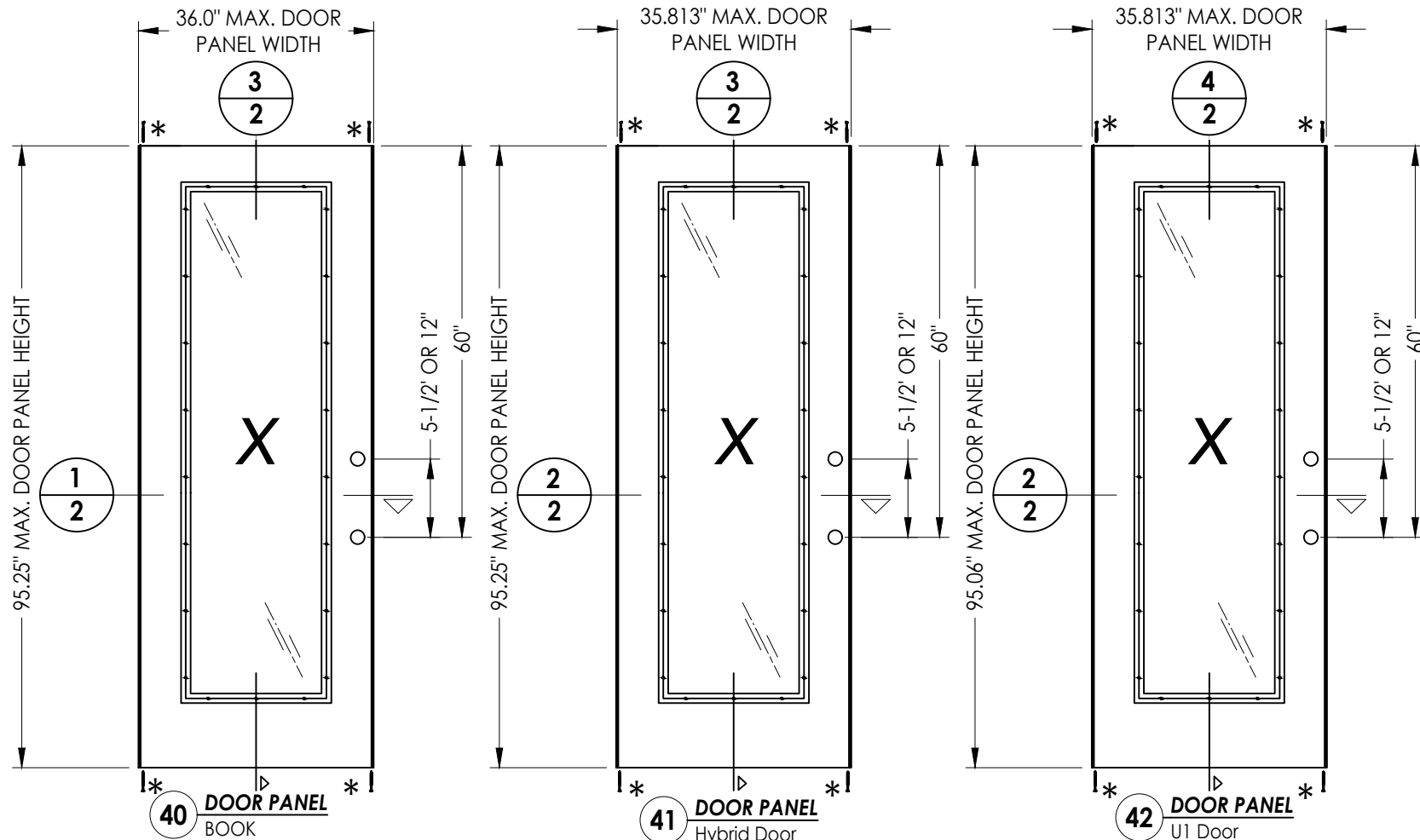
RWBUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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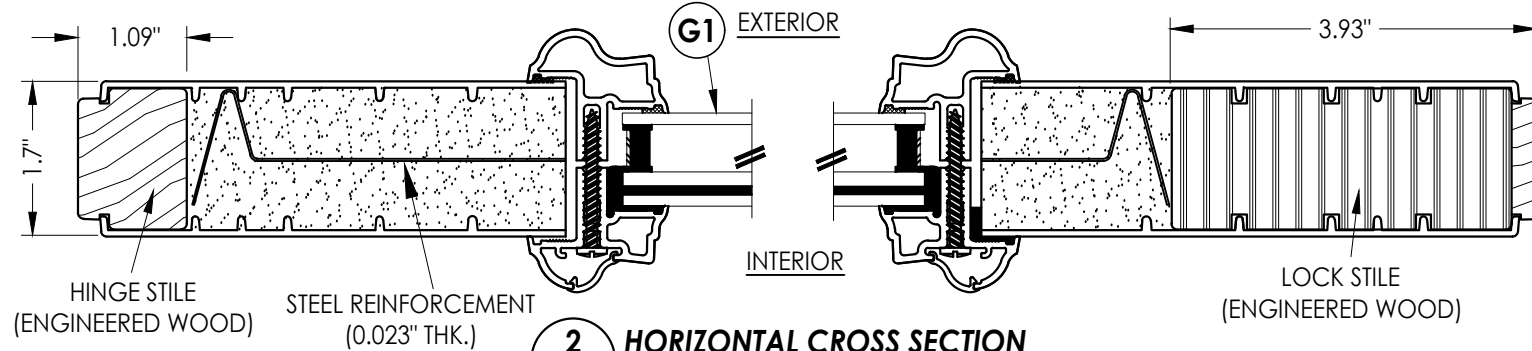


DETAIL A-A
PANEL REINFORCEMENT
(0.023" Thick Steel)

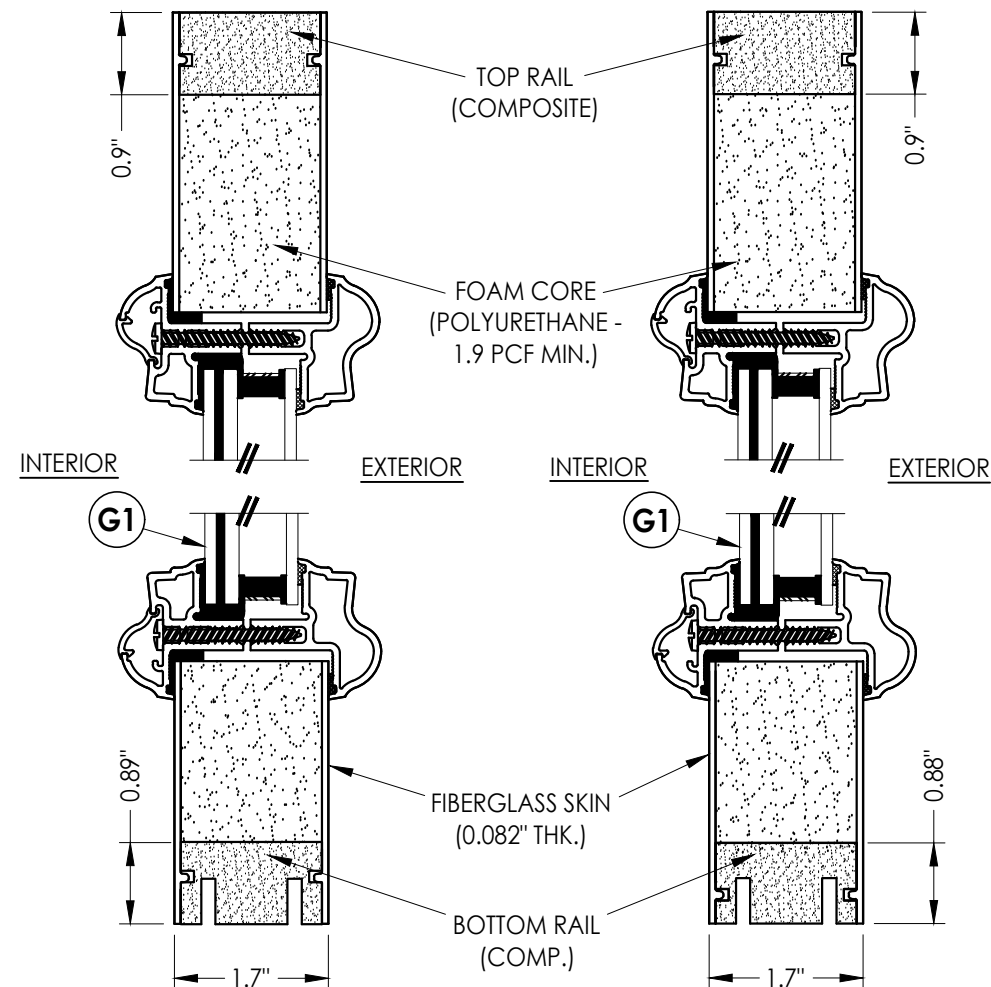
* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



1
2 **HORIZONTAL CROSS SECTION**



2
2 **HORIZONTAL CROSS SECTION**



3
2 **VERTICAL CROSS SECTION**

4
2 **VERTICAL CROSS SECTION**

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC
2	7/15/20	UPDATE TO 7TH ED. (2020) FBC
1	4/06/19	ADD 5-1/2\" LATCH/DB SPACING

DATE: 12/22/16

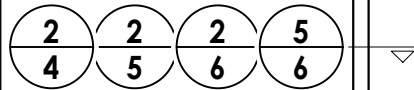
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21142.10

SHEET 2 OF 12



Four circles are shown, each divided horizontally into two equal halves. The first circle has the number 3 in the top half and 4 in the bottom half. The second circle has the number 3 in the top half and 5 in the bottom half. The third circle has the number 3 in the top half and 6 in the bottom half. The fourth circle has the number 6 in the top half and 6 in the bottom half.

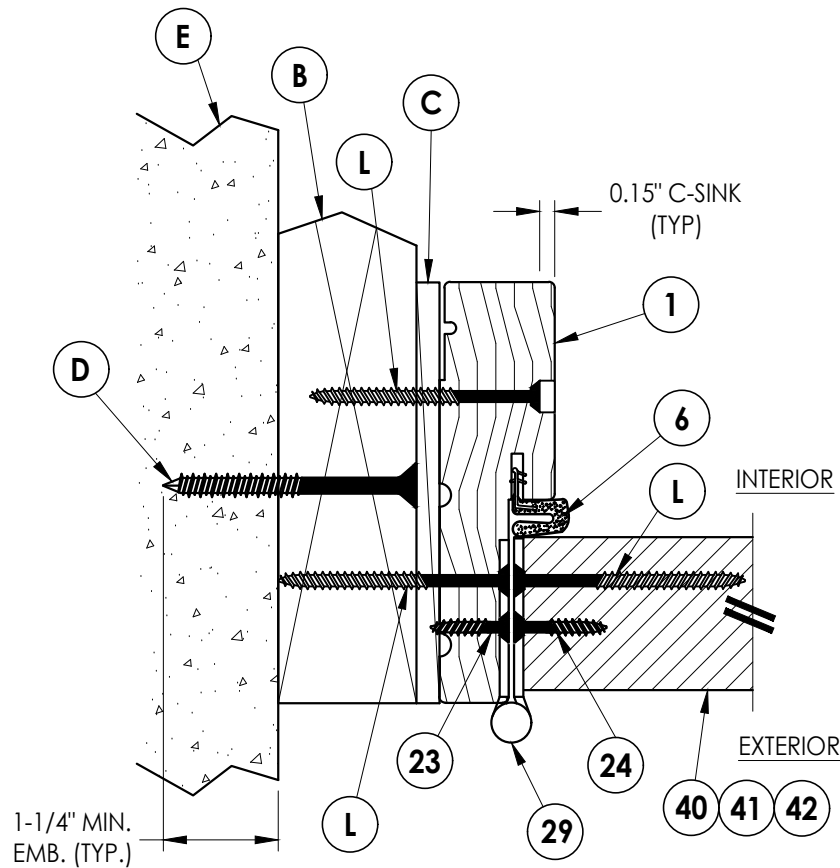
Panel options shown are for illustration and are representative only
(similar glazed panel configurations are allowed)

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

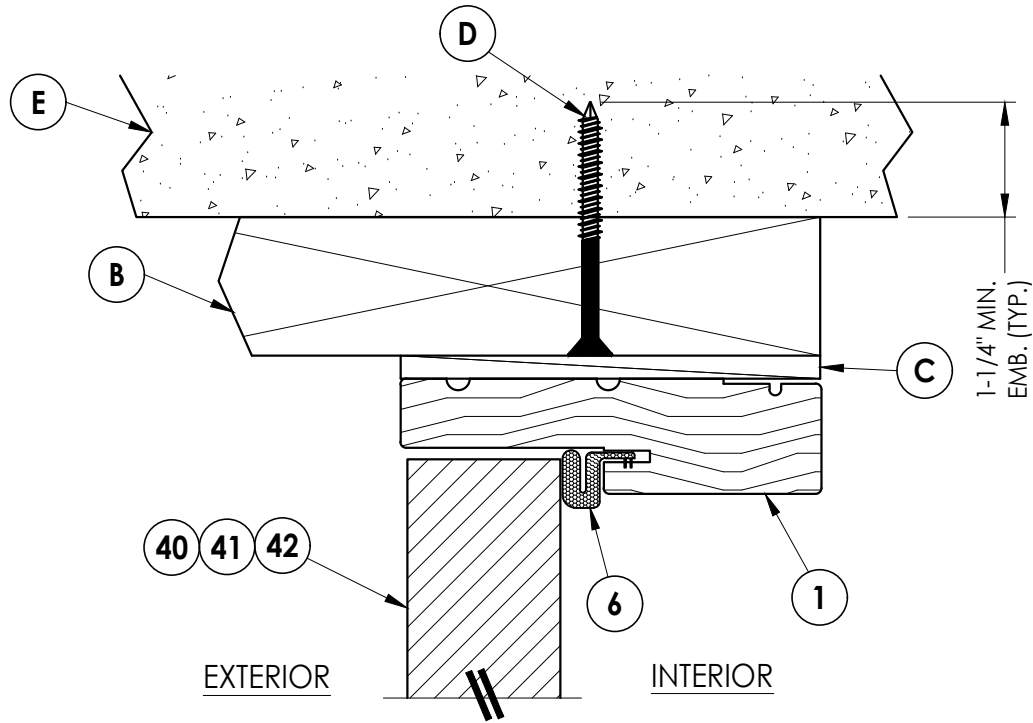
PART OR ASSEMBLY: ELEVATIONS

BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813

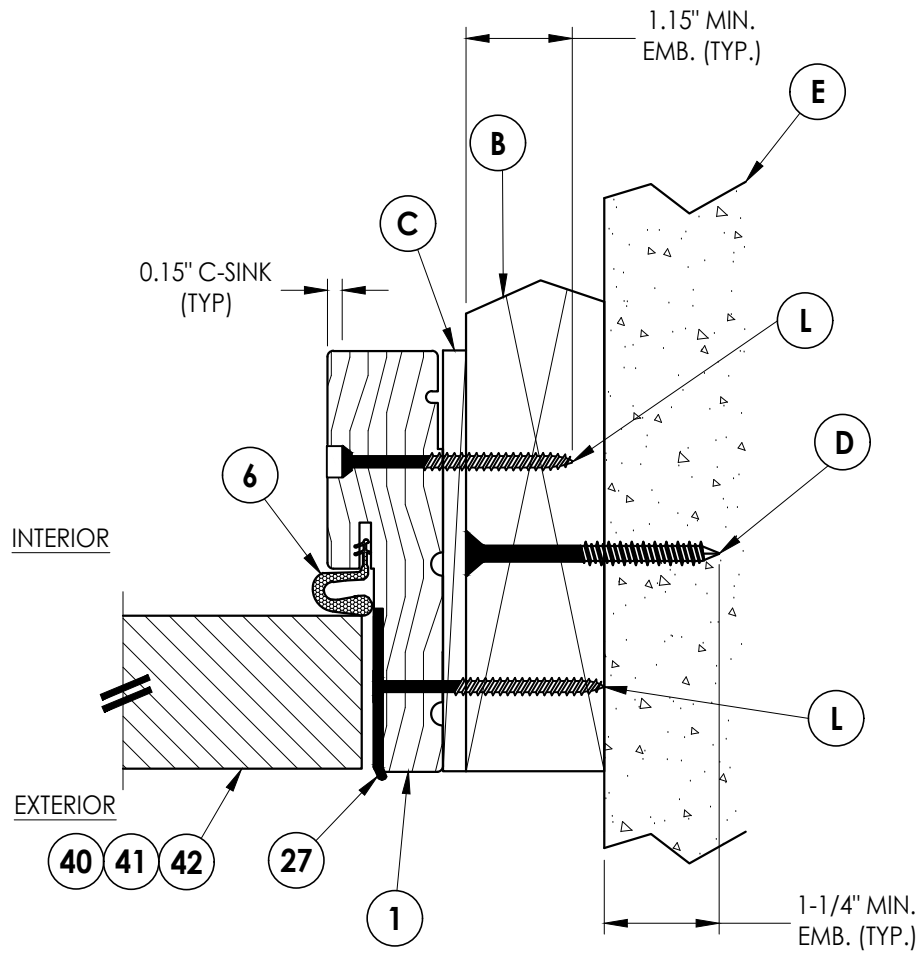
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2 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



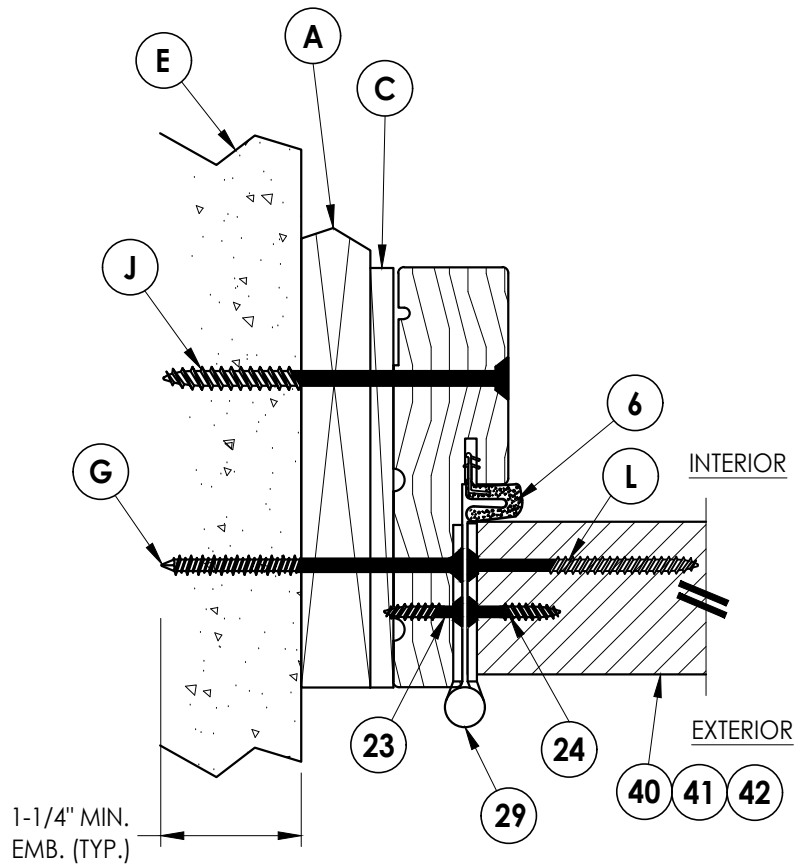
3 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)

PRODUCT:		THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
NO.	DATE	REVISIONS	BY	NO.	DATE	REVISIONS	BY
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
2	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO			
1	4/06/19	ADD 5-1/2\" LATCH/DB SPACING	LFS				
DATE: 12/22/16		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-21142.10		SHEET 4 OF 12					

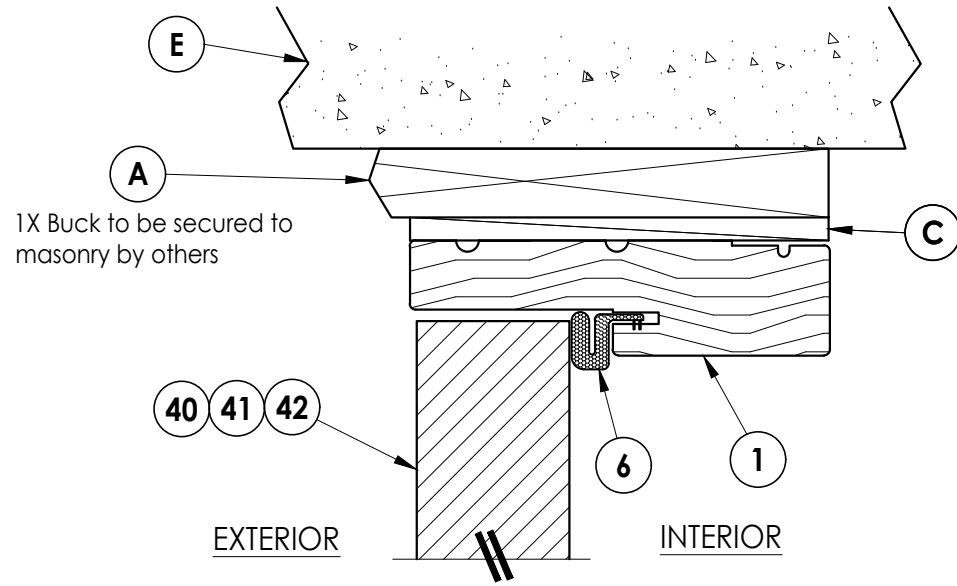
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

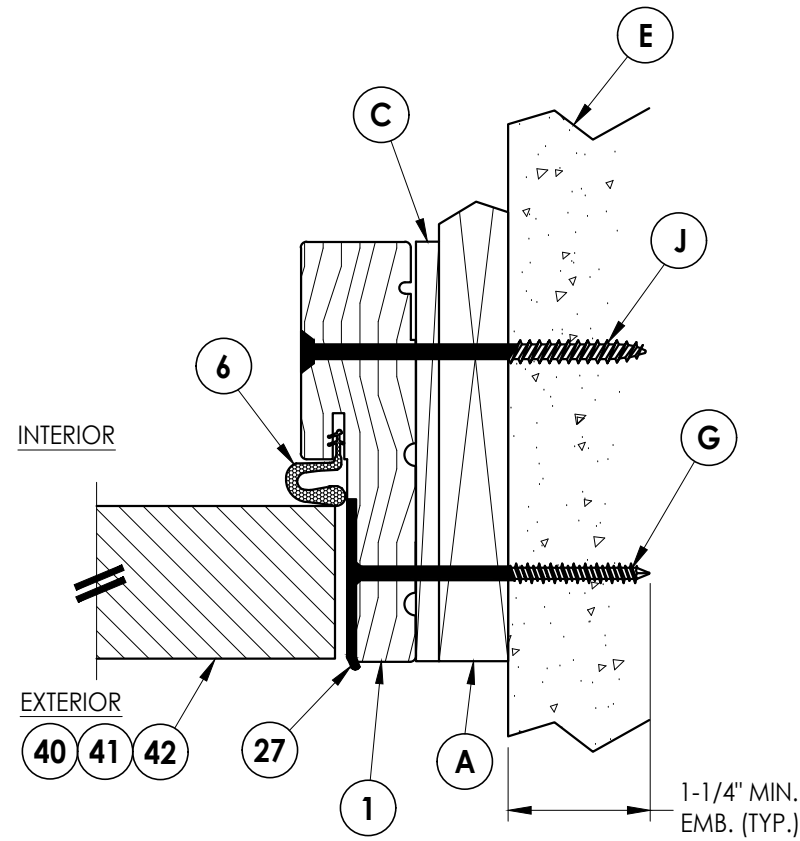
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2
5 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



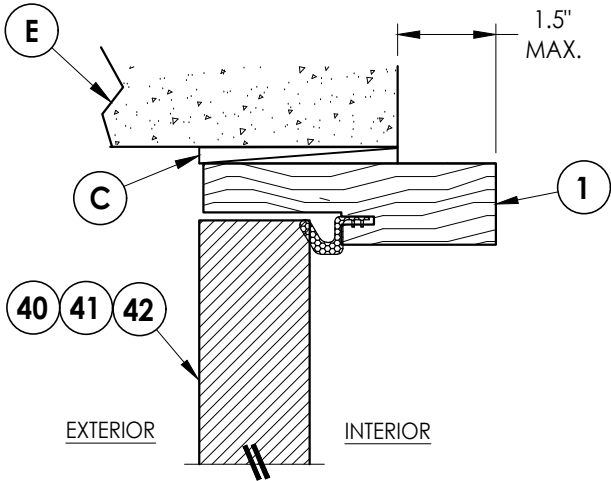
1
5 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



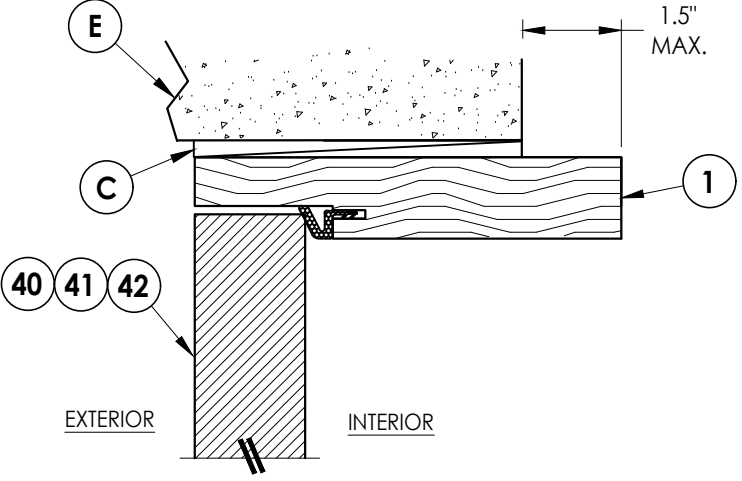
3
5 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

PRODUCT:		THERMA-TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DATE		NO.		BY	
7/02/26		UPDATE TO 9TH ED. (2026)		FBC	
8/18/23		UPDATE TO 8TH ED. (2023)		FBC	
7/15/20		UPDATE TO 7th ED (2020)		FBC	
4/06/19		ADD 5-1/2" LATCH/DB SPACING		LFS	
NO.		DATE		BY	
1		4/06/19		LFS	
2		7/15/20		FBC	
3		8/18/23		FBC	
4		7/02/26		FBC	
DATE		NO.		BY	
12/22/16		1		LFS	
SCALE:		N.T.S.		DWG. BY:	
12/22/16		1		JK	
CHK. BY:		LFS		DRAWING NO.:	
12/22/16		1		FL-21142.10	
SHEET		5		OF 12	

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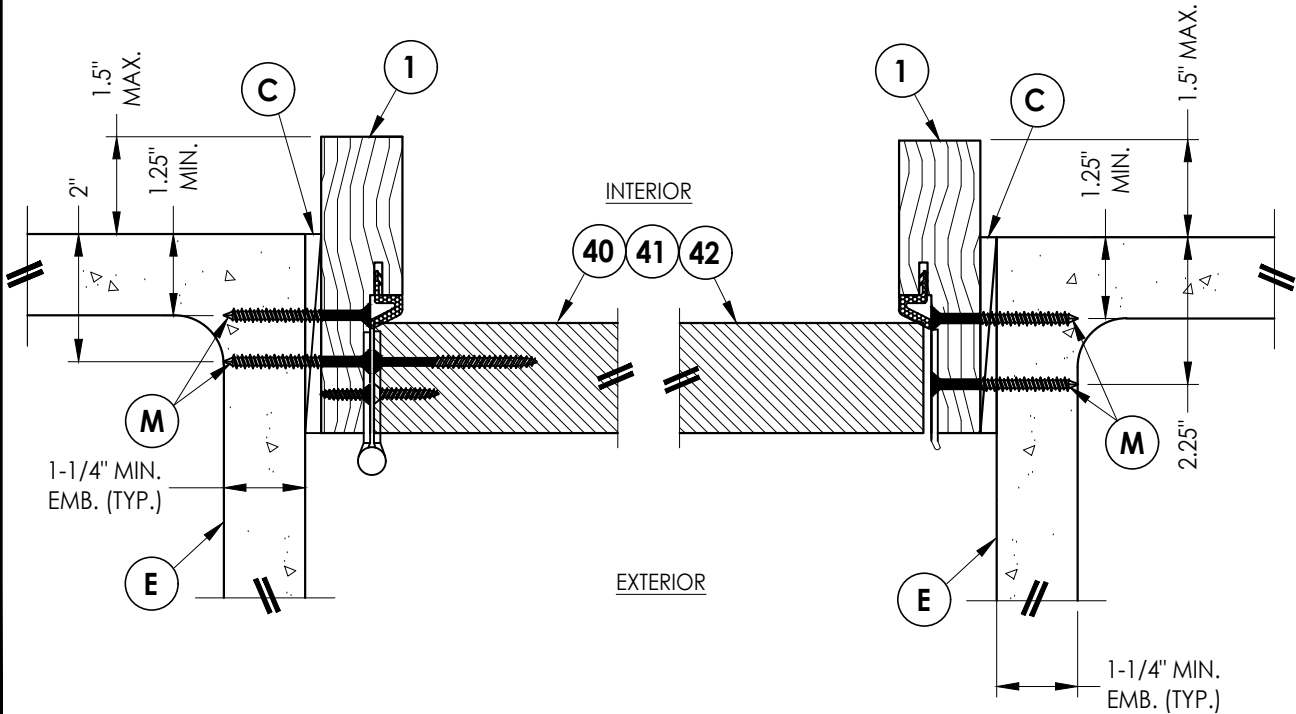


1
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

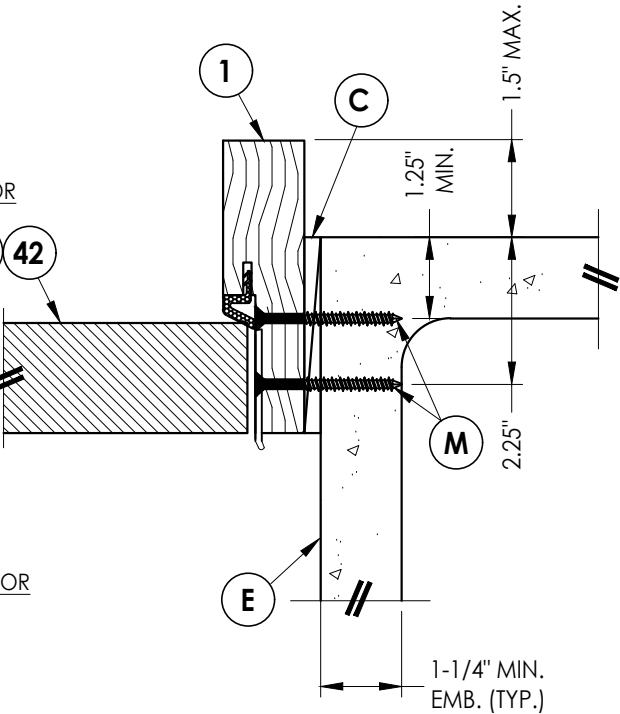


4
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

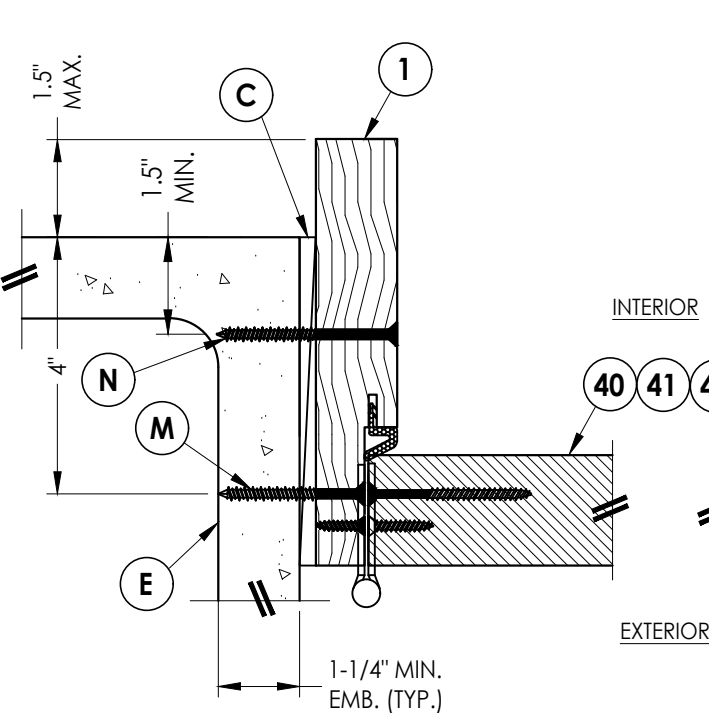
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 47 PSF
w/ SECURITY STRIKE = ± 55 PSF



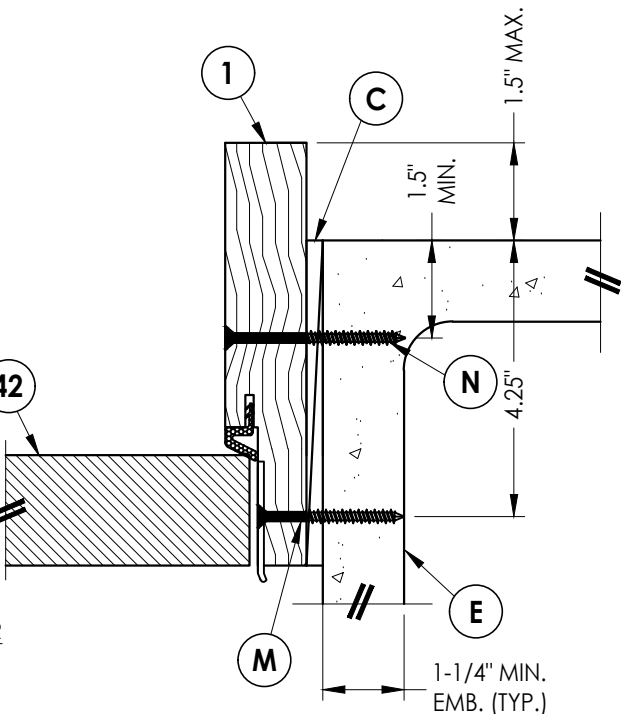
2
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/15/20	UPDATE TO 7TH ED (2020) FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING LFS
NO.	DATE	BY

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21142.10

SHEET 6 OF 12

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



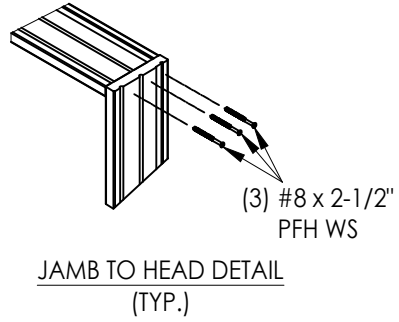
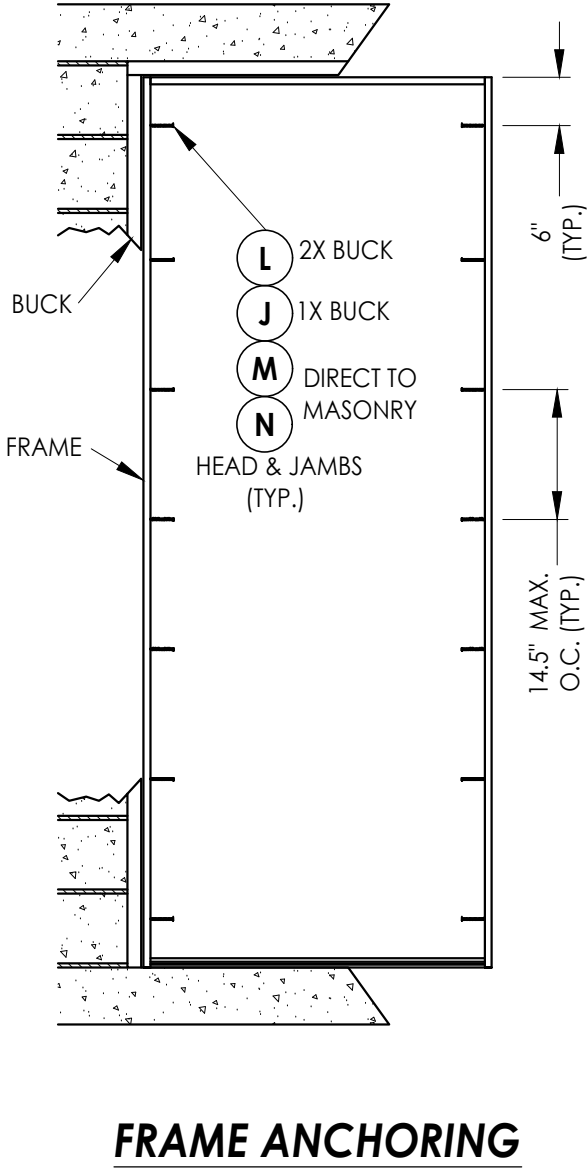
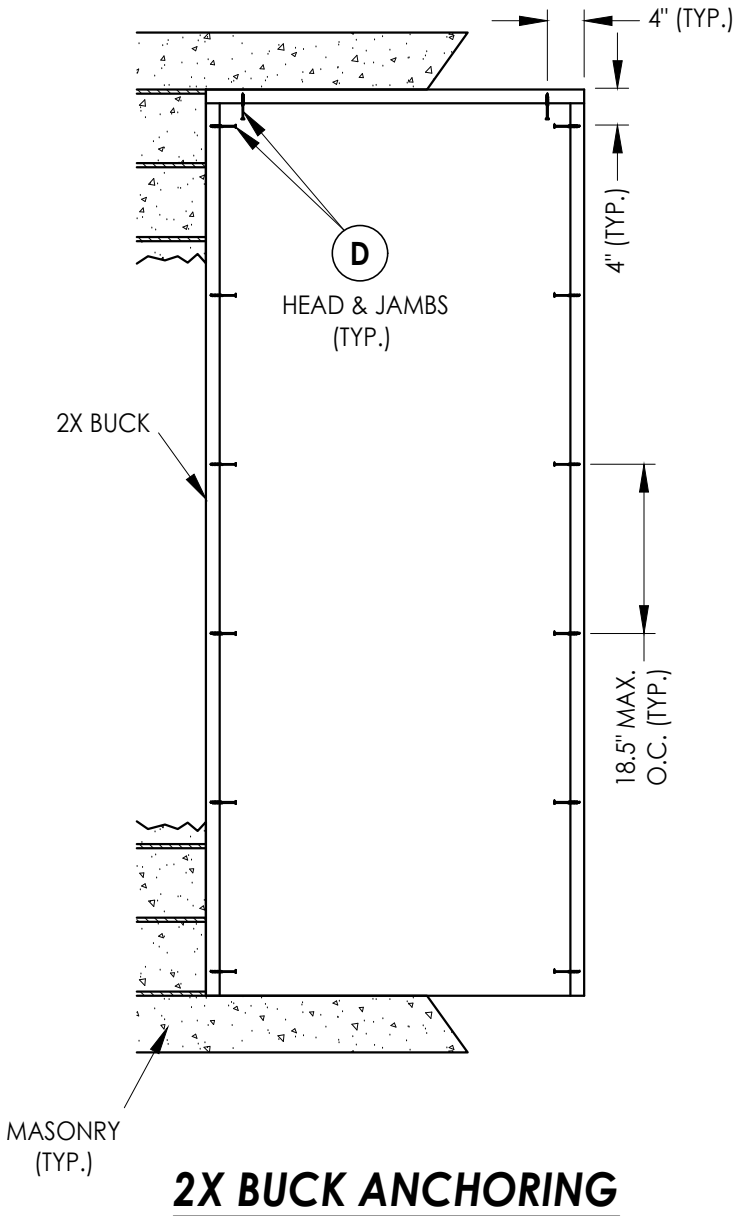
4	7/02/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
3	8/18/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	7/15/20	UPDATE TO 7th ED.	(2020)	FBC	P0
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING			LFS
NO.	DATE				BY
					REVISIONS
DATE: 12/22/16					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-21142.10					
SHEET 7 OF 12					

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

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DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-21142.10

SHEET 8 OF 12

PRODUCT:

THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

BUCK AND FRAME ANCHORING

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

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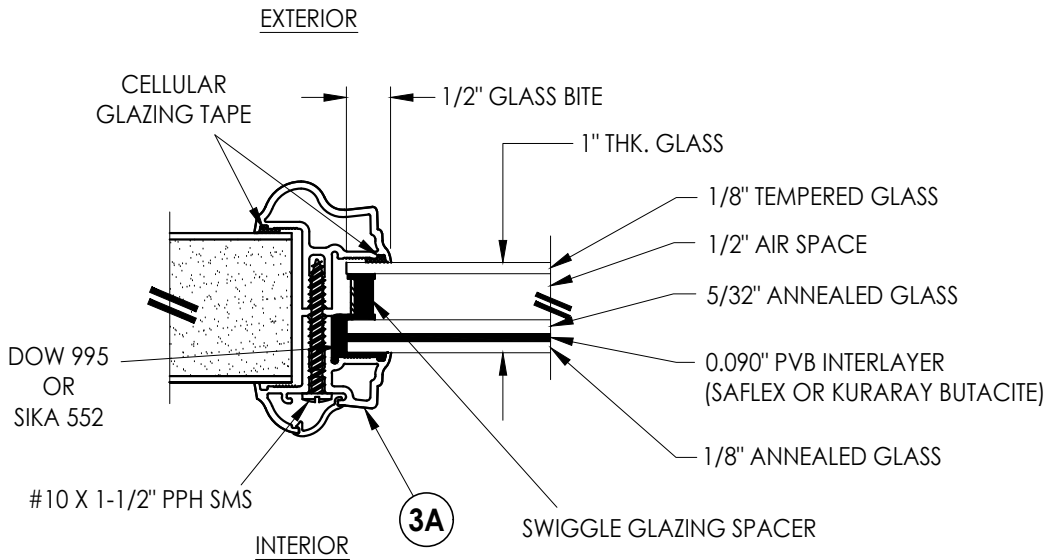
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

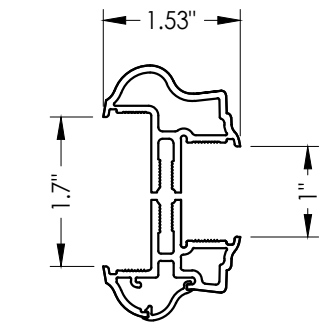
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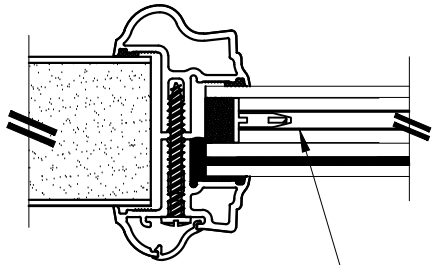
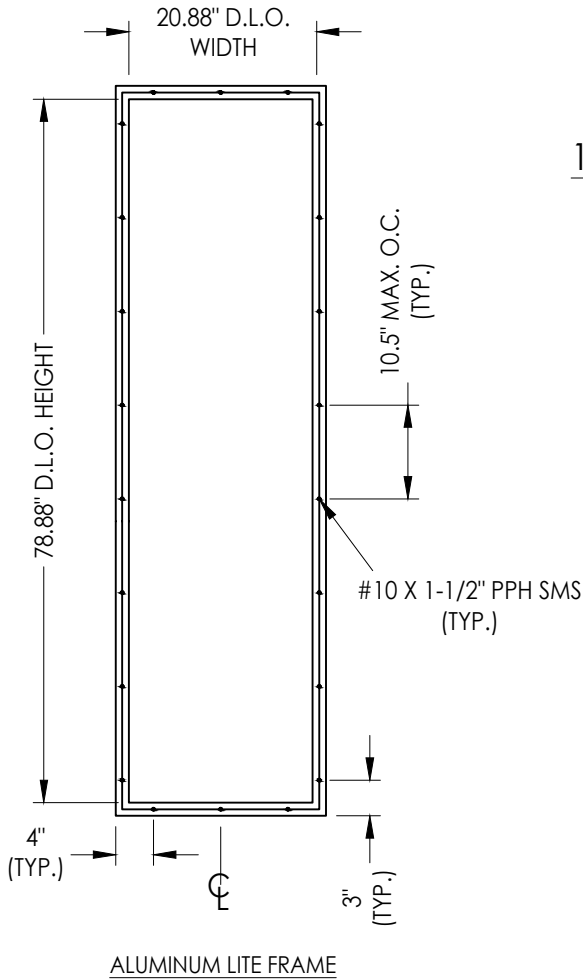
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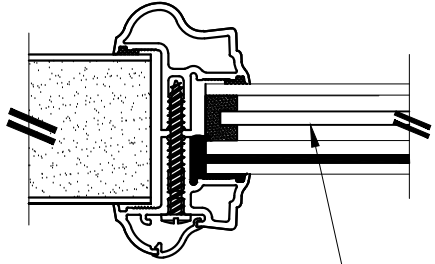
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



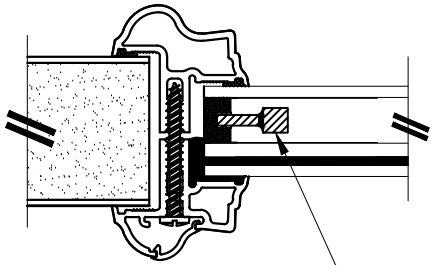
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



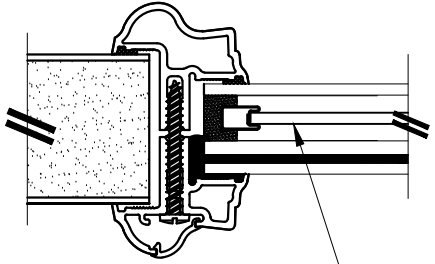
INTERNAL GRID (GBG)



PRIVACY INSERT



WROUGHT IRON INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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:

GLAZING DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	REVISIONS	
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO	
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS	LFS	

DATE: 12/22/16

SCALE: N.T.S.

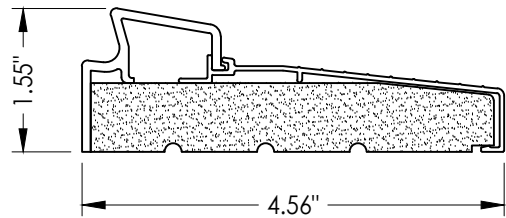
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CHK. BY: LFS

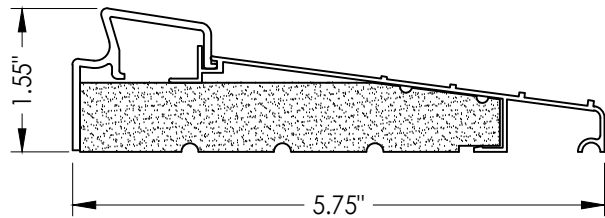
DRAWING NO.:
FL-21142.10

SHEET 10 OF 12

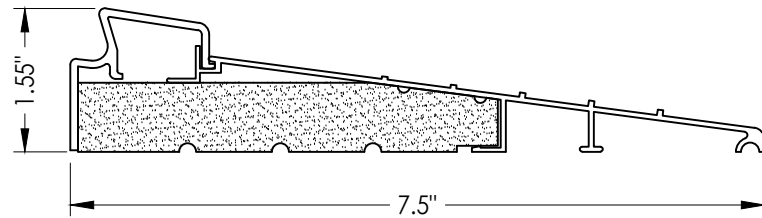
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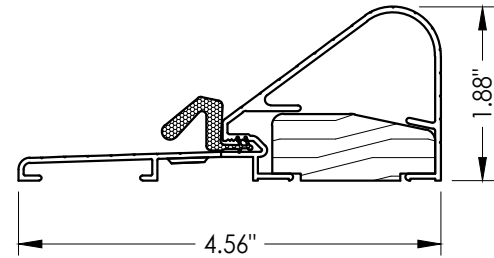
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



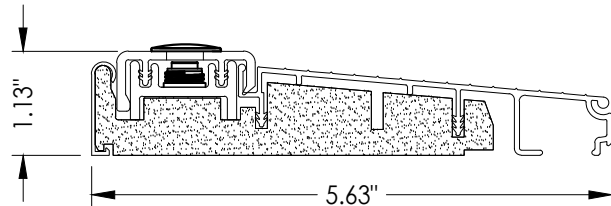
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



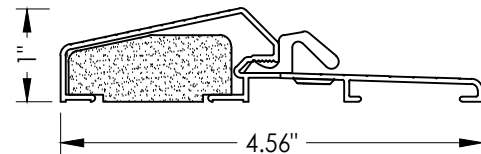
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



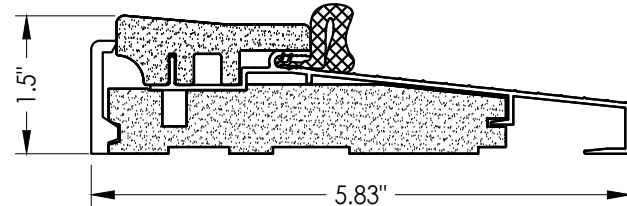
19 OUTSWING
Threshold coastal



39 INSWING THRESHOLD
Inswing Composite Adjustable Sill

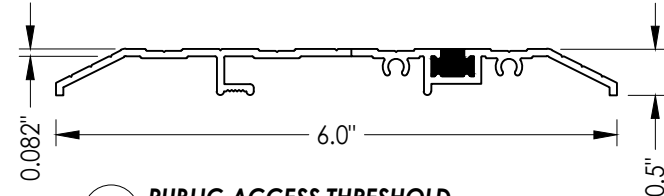


17 OUTSWING THRESHOLD
Composite / Aluminum Sill

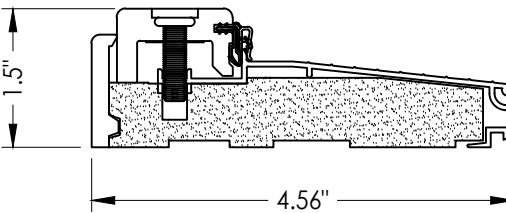


16 OUTSWING THRESHOLD*
Composite / Aluminum Sill

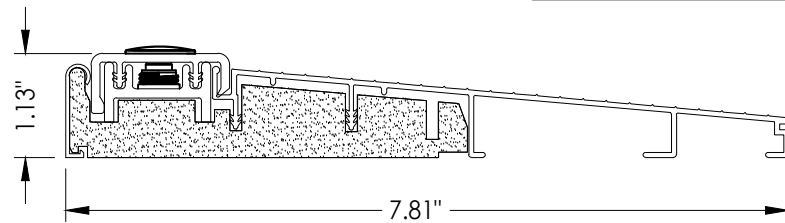
* **MAX. +55 PSF**
(where water infiltration is required)



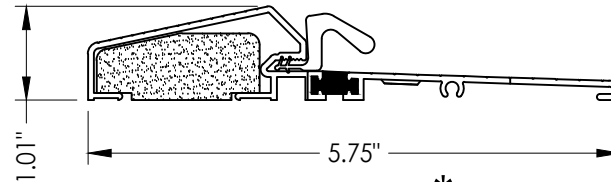
15 PUBLIC ACCESS THRESHOLD



38 INSWING THRESHOLD
Inswing Composite Adjustable Sill

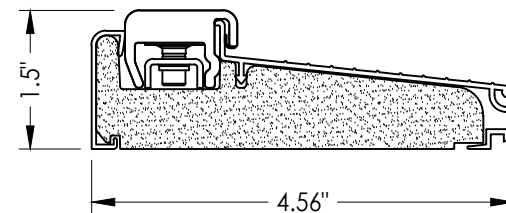


32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill

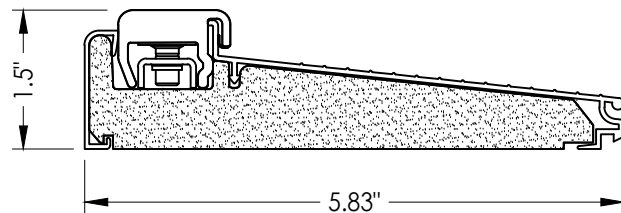


18 OUTSWING THRESHOLD*
Composite / Aluminum Sill
(Thermal Break)

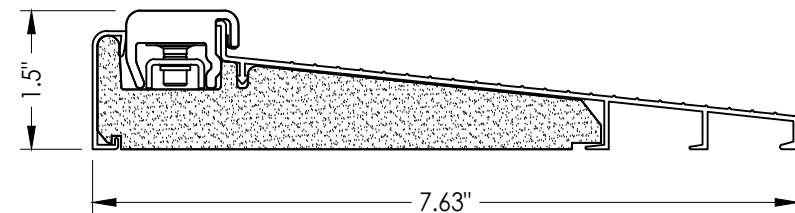
* Max. Positive Design Pressure = +55 PSF
(Where water infiltration is required)



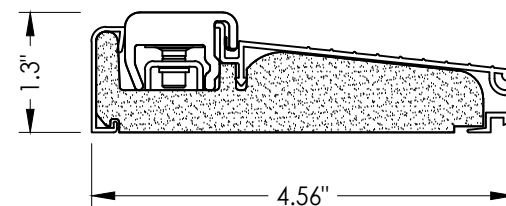
43 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



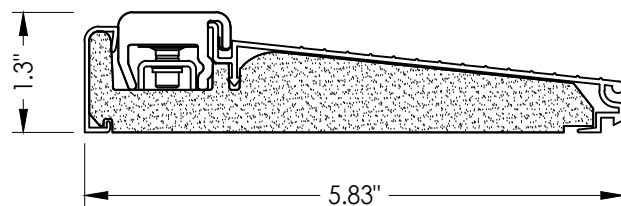
44 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



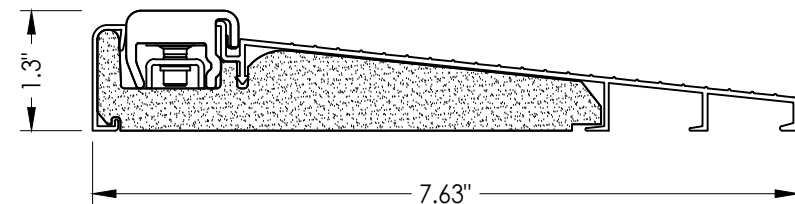
45 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



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:
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			
		BY	LFS	PO	PO
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/15/20	UPDATE TO 7TH ED. (2020)	FBC	PO	
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS		

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

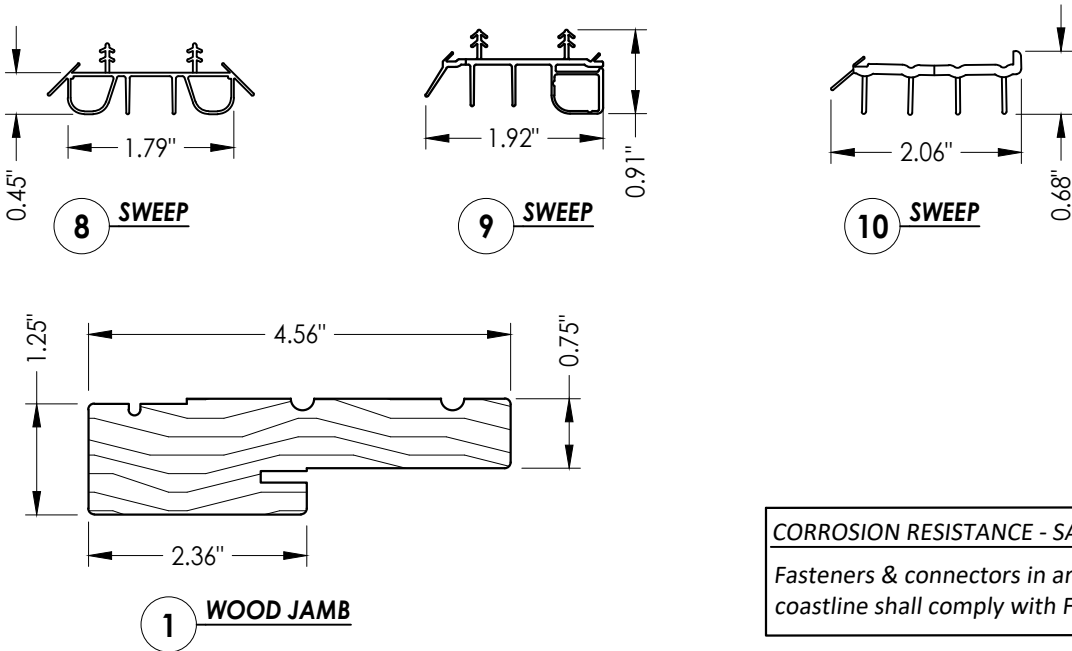
CHK. BY: LFS

DRAWING NO.: FL-21142.10

SHEET 11 OF 12

G:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-21142 R4\FL-21142.10-12.dwg

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE (STANDARD)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	29	4" X 4" HINGE	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	36	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	37	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	38	INSWING THRESHOLD	ALUM/COMP
8	SWEEP	VINYL	39	INSWING THRESHOLD	ALUM/COMP
9	SWEEP	VINYL	40	DOOR PANEL (BOOK)	-
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	41	DOOR PANEL (HYBRID)	-
15	PUBLIC ACCESS THRESHOLD	ALUM	42	DOOR PANEL (U1)	-
16	OUTSWING THRESHOLD	ALUM/COMP	43	INSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP	44	INSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP	45	INSWING THRESHOLD	ALUM/COMP
19	COASTAL OUTSWING THRESHOLD	ALUM/WOOD	46	INSWING THRESHOLD	ALUM/COMP
22	#8 x 3/4" PFH WOOD SCREW	STEEL	47	INSWING THRESHOLD	ALUM/COMP
23	#10 x 3/4" PFH WOOD SCREW	STEEL	48	INSWING THRESHOLD	ALUM/COMP
24	#10 x 1" PFH WOOD SCREW	STEEL			



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

DATE: 12/22/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21142.10
SHEET 12 OF 12

PART OR ASSEMBLY:
COMPONENTS &
BILL OF MATERIALS

REVISIONS

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