

OPAQUE FIBERGLASS SINGLE DOOR

INSWING/OUTSWING

"NON-IMPACT"

GENERAL NOTES

1.

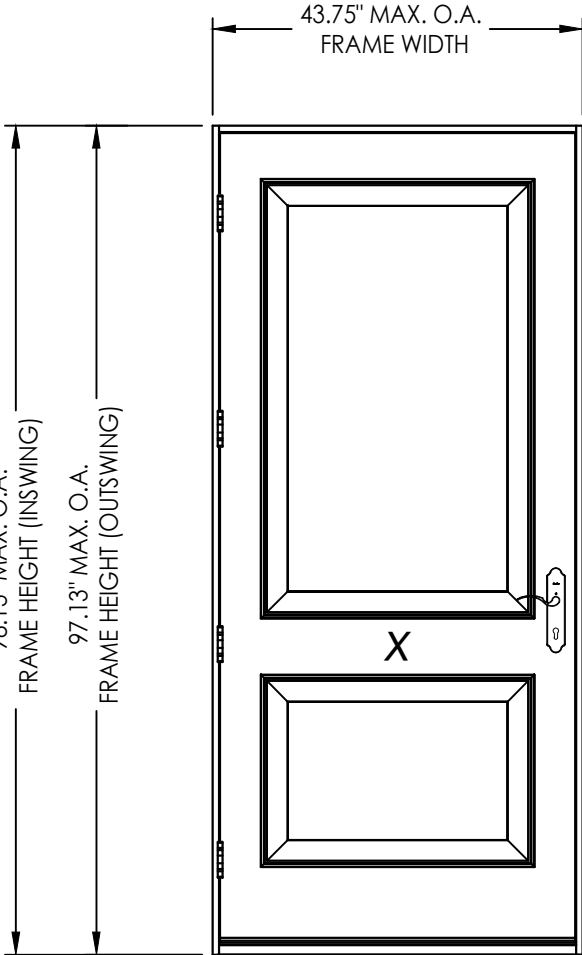
This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2.

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.

For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
4.

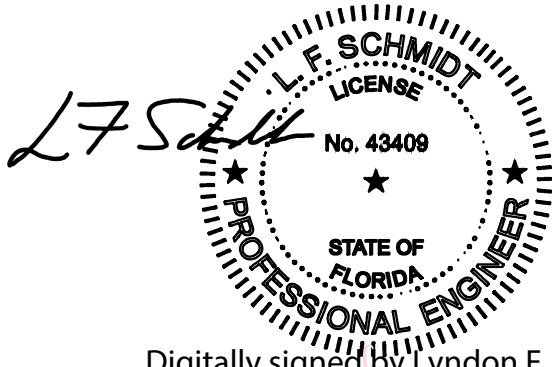
Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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SHEET#	DESCRIPTION
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2	Door Panel Details
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5	Horizontal & Vertical Cross Sections (1X Buck)
6	Horizontal & Vertical Cross Sections (Direct to Masonry)
7	Vertical Cross Sections (Thresholds)
8	Buck & Frame Anchoring & Hardware Details
9	Components
10	Components & Bill of Materials



CONFIGURATION	Lock Hardware	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Multipoint*	+65.0	-75.0	+65.0	-65.0

*See Sheet 3 for Hardware Specifications



Digitally signed by Lyndon F Schmidt
Date: 2023.08.29 09:41:21 -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

2
8/22/23
UPDATE TO 8TH ED. (2023) FBC

1
8/05/20
UPDATE TO 7th ED (2020) FBC

NO.
DATE

BY

REVISIONS

DATE: 3/24/20

SCALE: N.T.S.

DWG. BY: RW

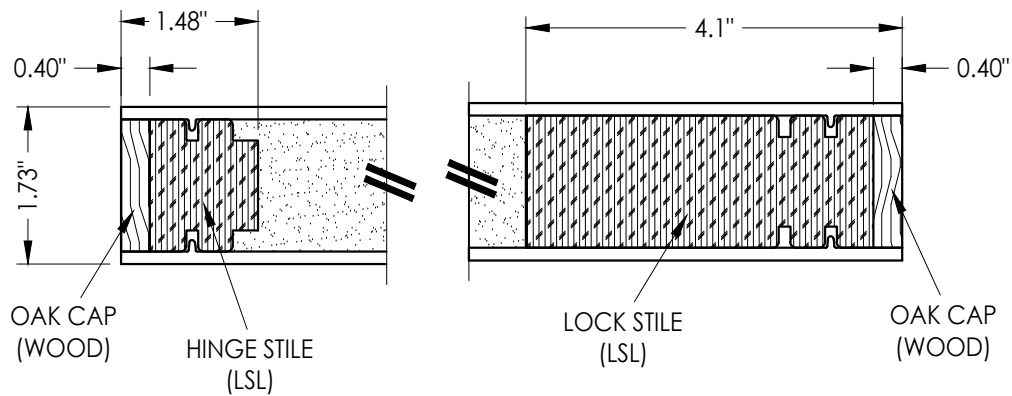
CHK. BY: LFS

DRAWING NO.: FL-23955.11

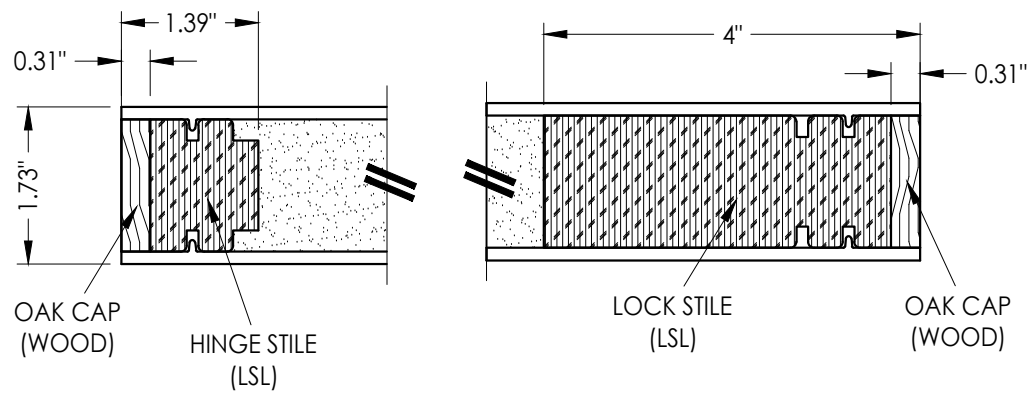
SHEET 1 OF 10

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

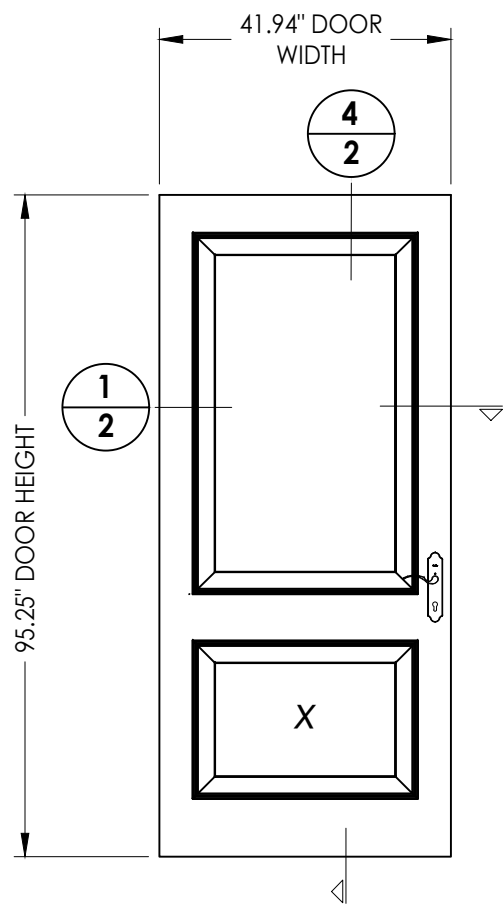
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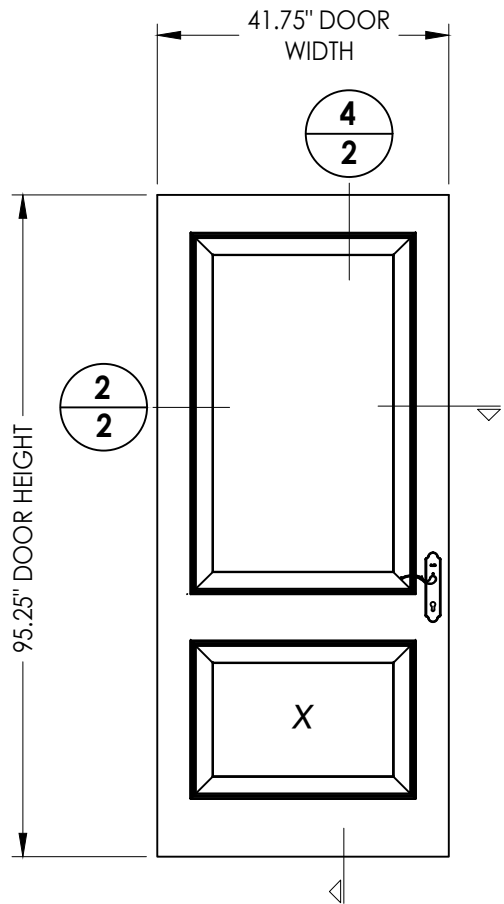
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2 HORIZONTAL CROSS SECTION



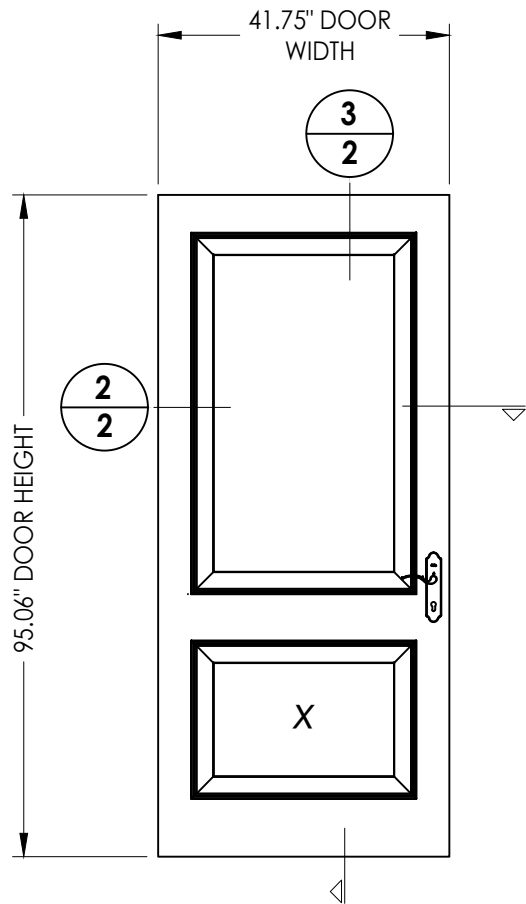
2
2 HORIZONTAL CROSS SECTION



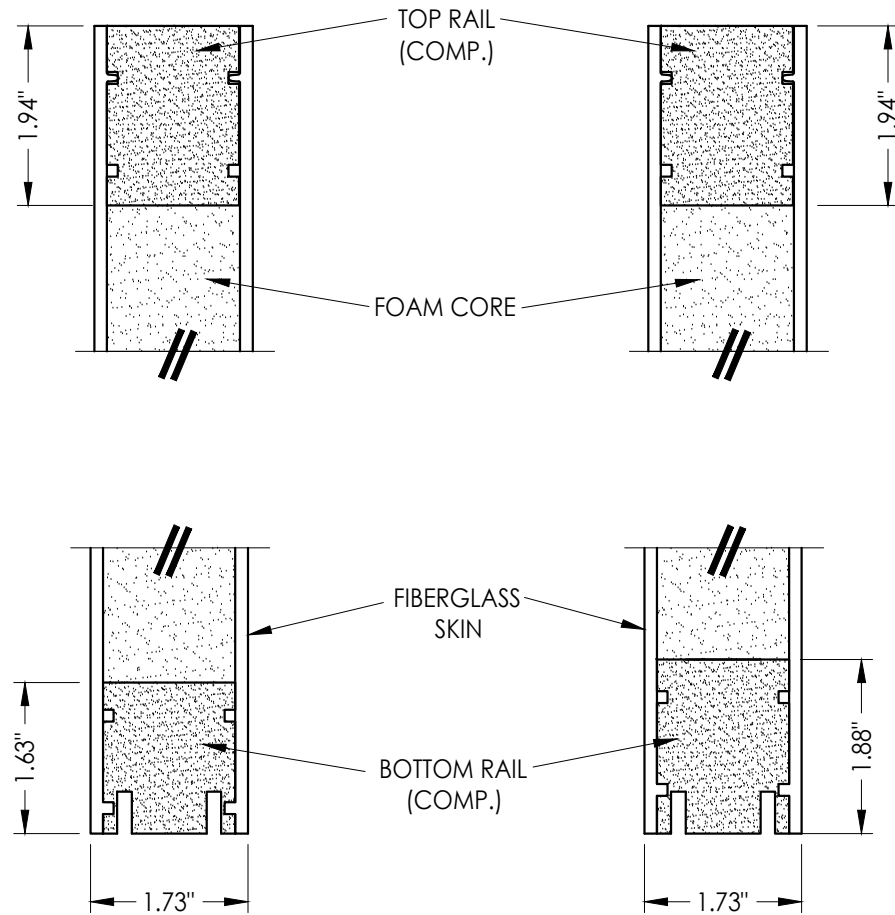
40 DOOR PANEL
Book Door



41 DOOR PANEL
Hybrid Door



42 DOOR PANEL
U1 Door



3
2 VERTICAL CROSS SECTION

4
2 VERTICAL CROSS SECTION

"Classic-Craft" SERIES DOOR PANEL

FIBERGLASS DOOR SKIN: 0.125" MIN. THK.
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL
DETAILS

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC
1	8/05/20	UPDATE TO 7th ED (2020) FBC

DATE: 3/24/20

SCALE: N.T.S.

DWG. BY: RW

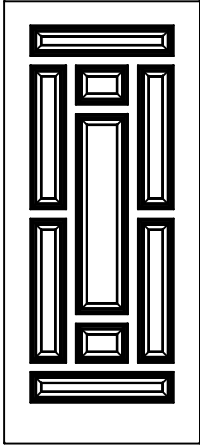
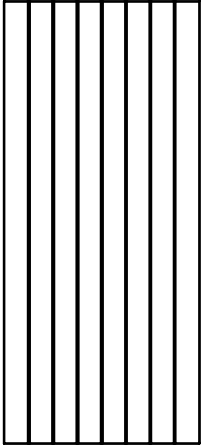
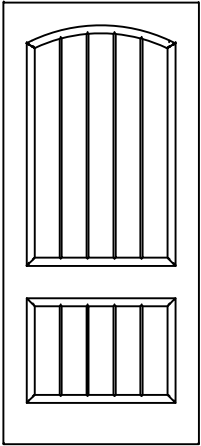
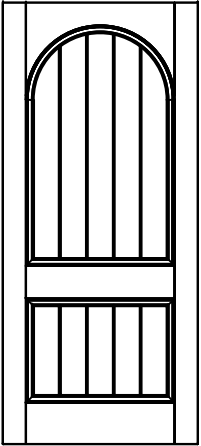
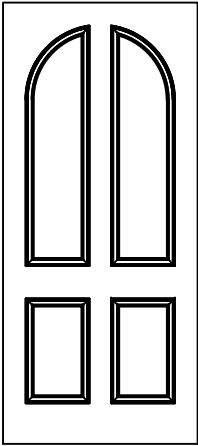
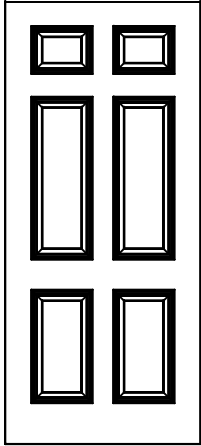
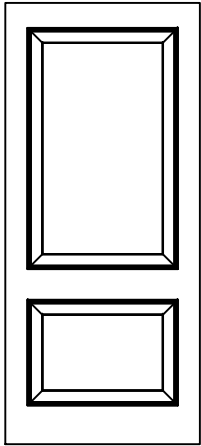
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FL-23955.11

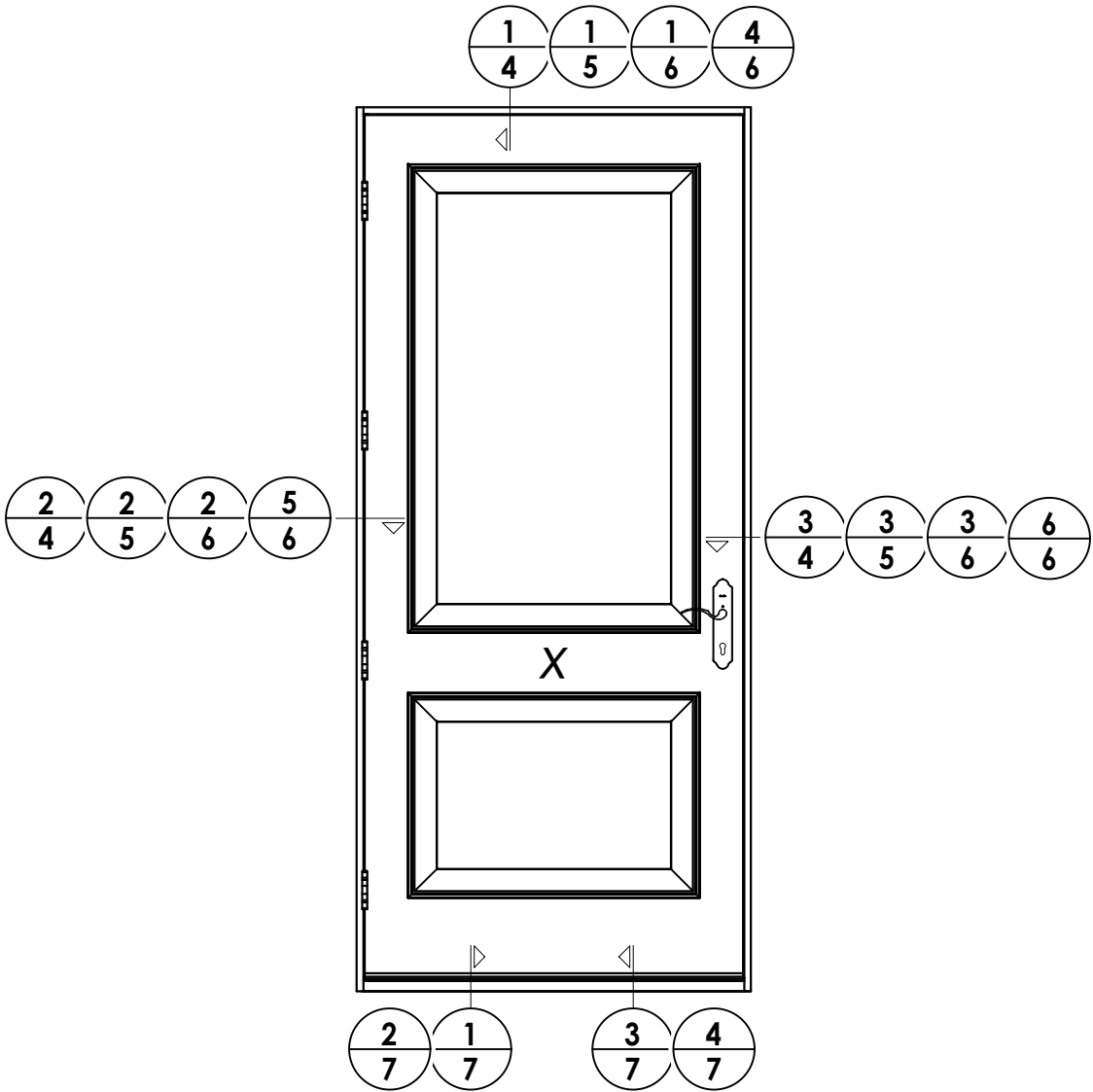
SHEET 2 OF 10

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Classic-Craft Door Panel Options

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



HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE (THERMA-TRU)	MULTIPOINT LOCK: MPDGART

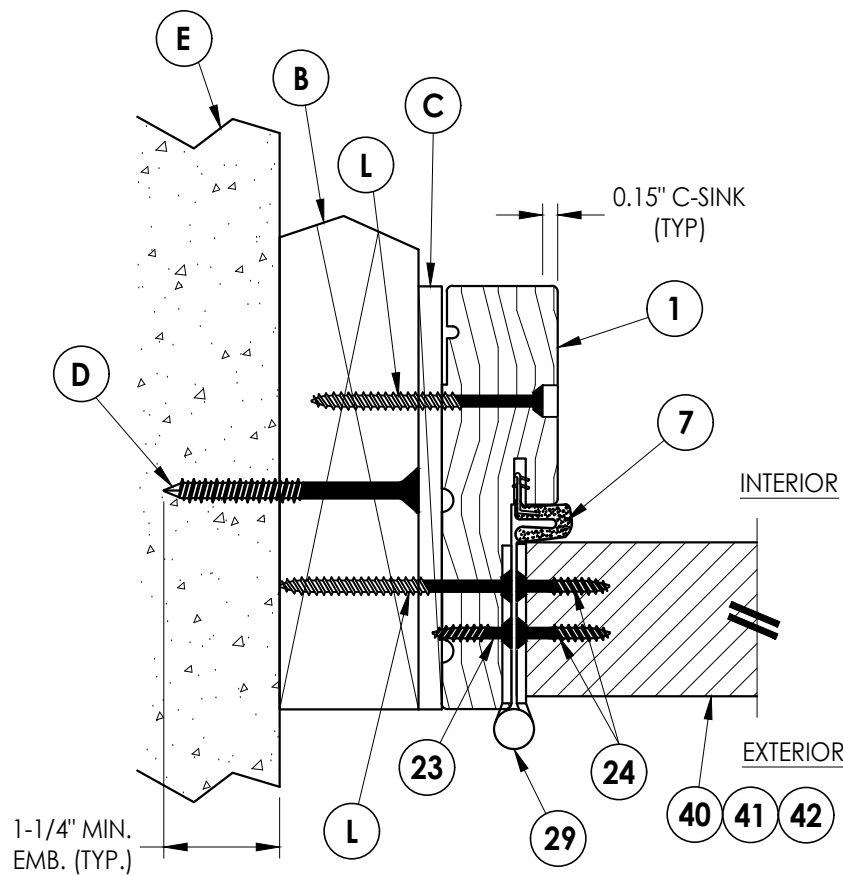
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SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-23955.11
SHEET	3 OF 10

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

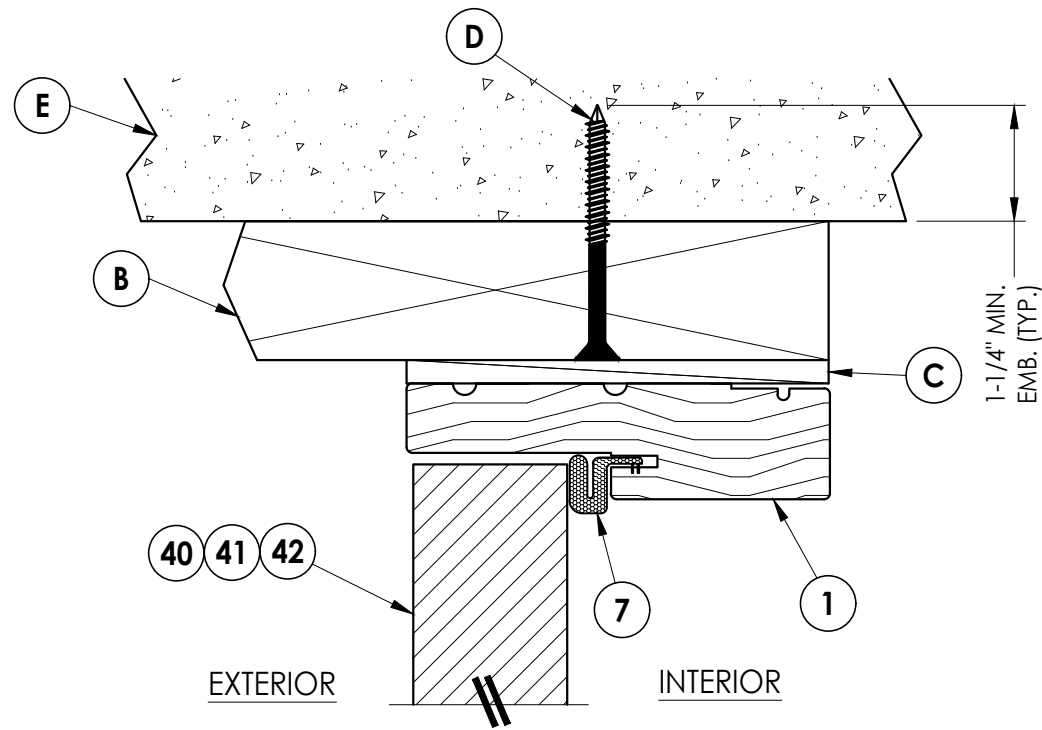
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
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REVISIONS			
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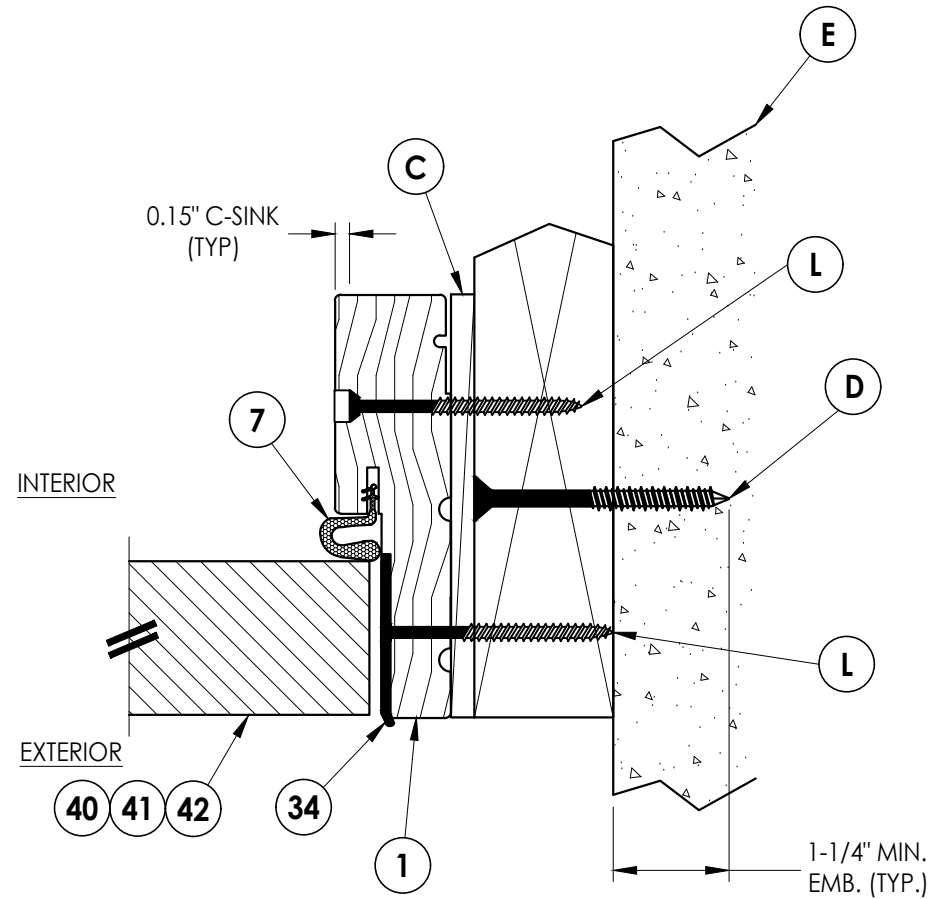
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2 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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)

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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/05/20	UPDATE TO 7th ED (2020) FBC LFS

DATE: 3/24/20

SCALE: N.T.S.

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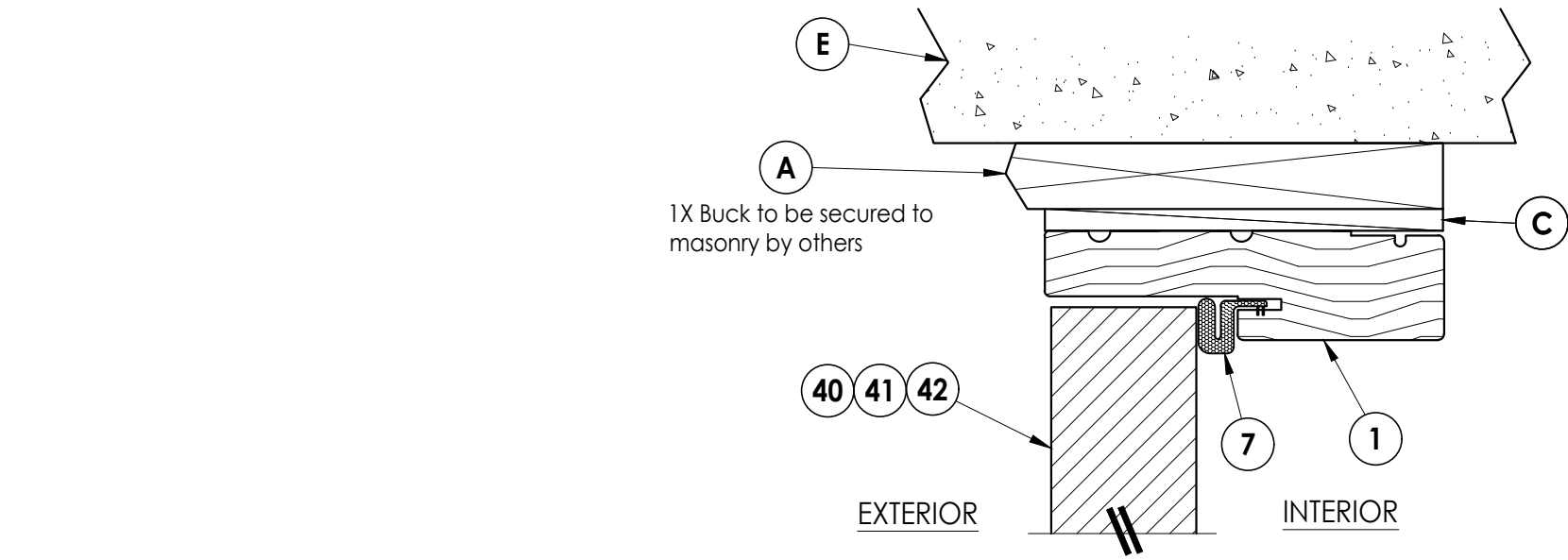
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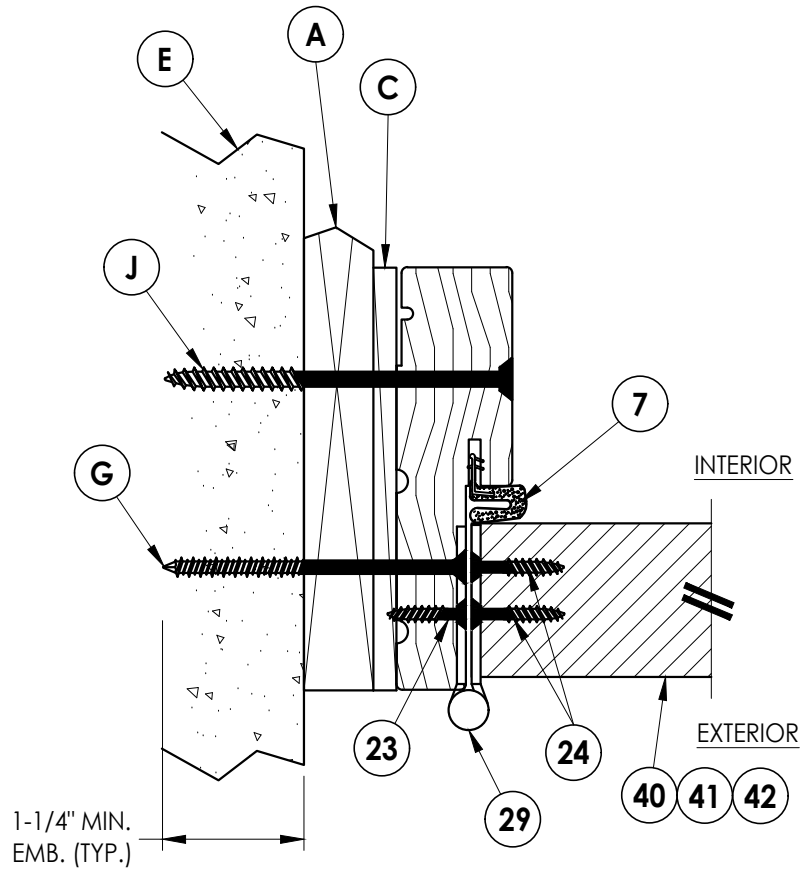
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SHEET 4 OF 9

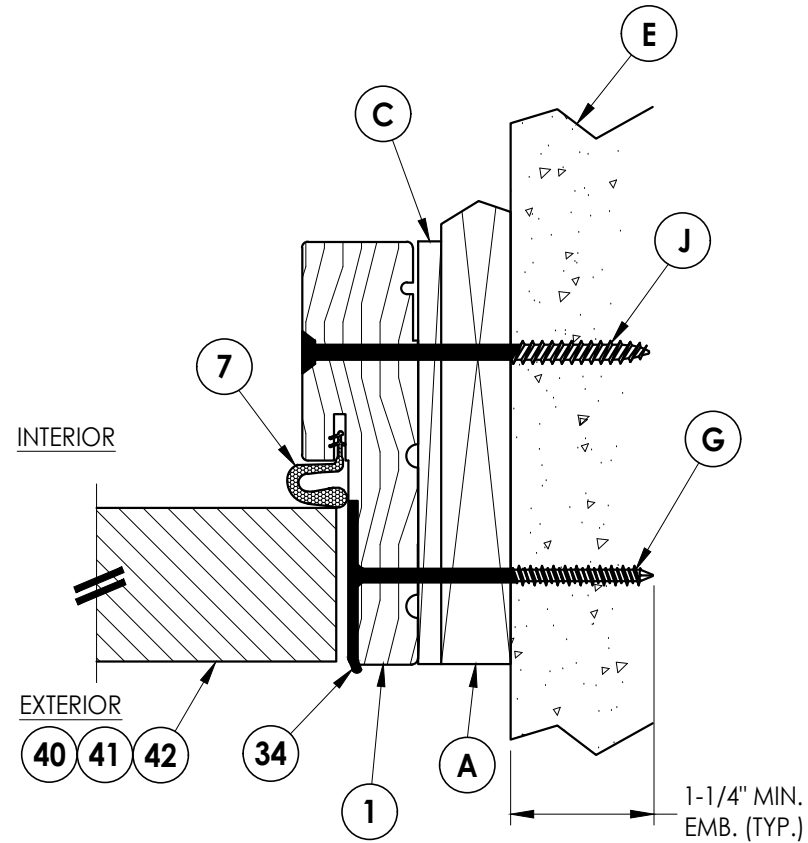
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1 VERTICAL CROSS SECTION
5 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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)

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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	8/05/20	UPDATE TO 7th ED (2020) FBC LFS
		BY

DATE: 3/24/20

SCALE: N.T.S.

DWG. BY: RW

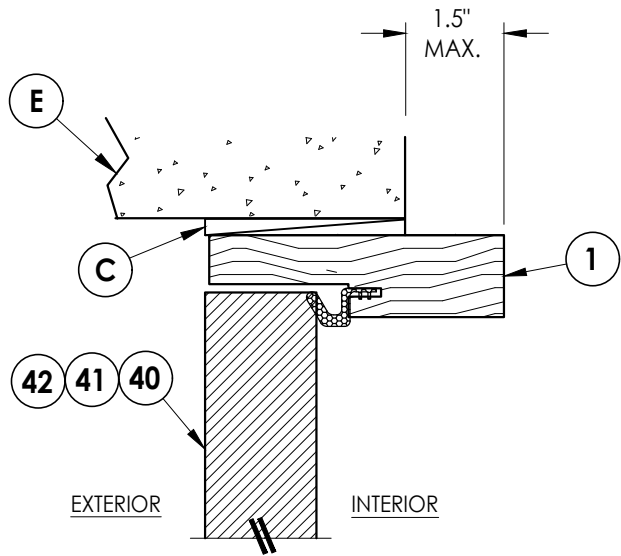
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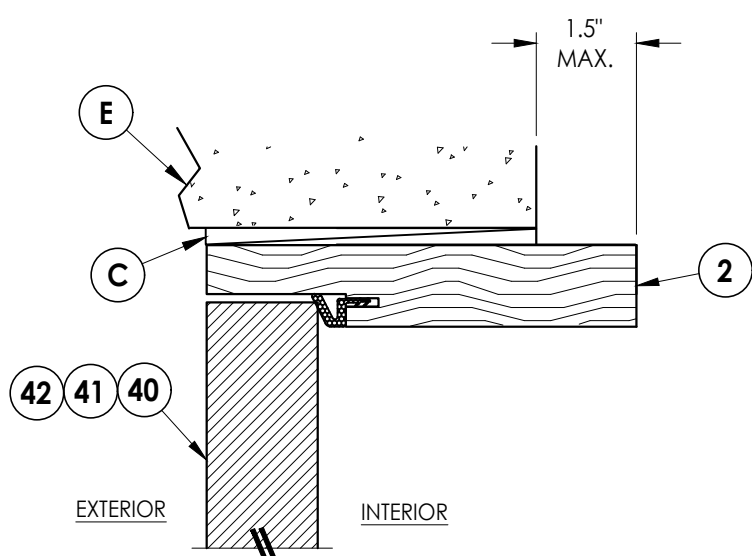
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SHEET 5 of 10

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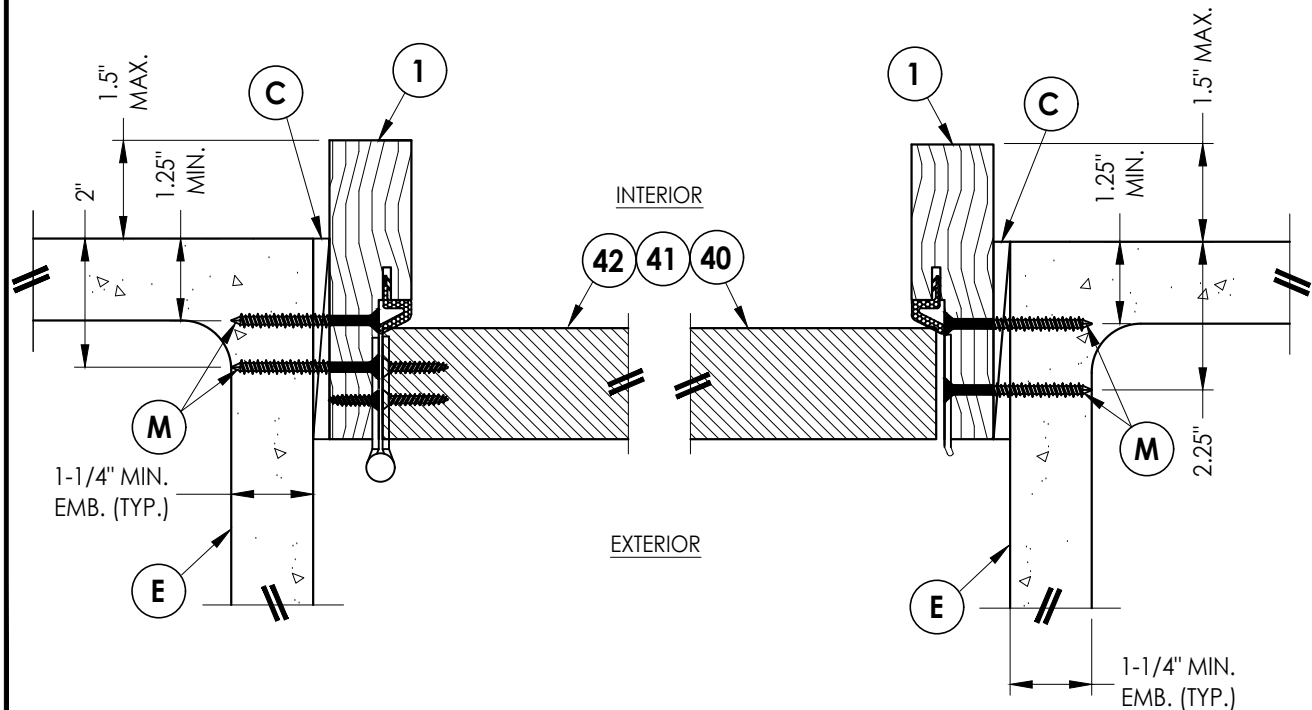


1
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

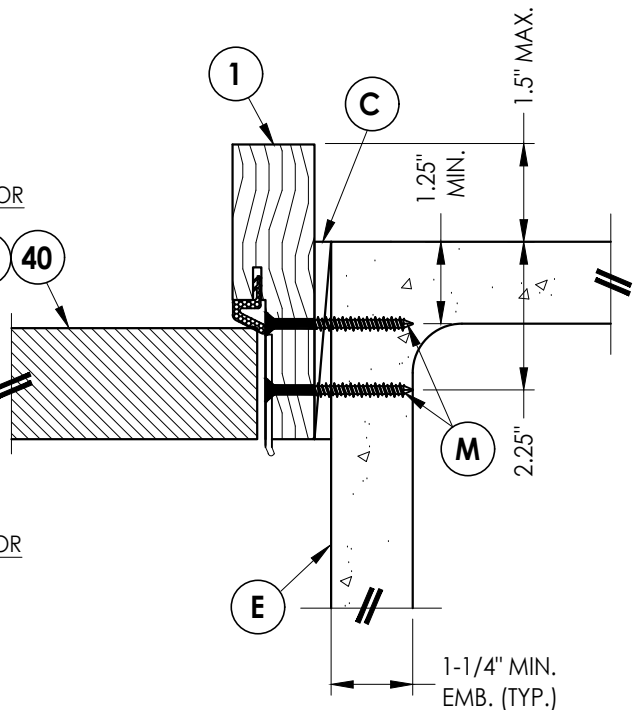


4
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

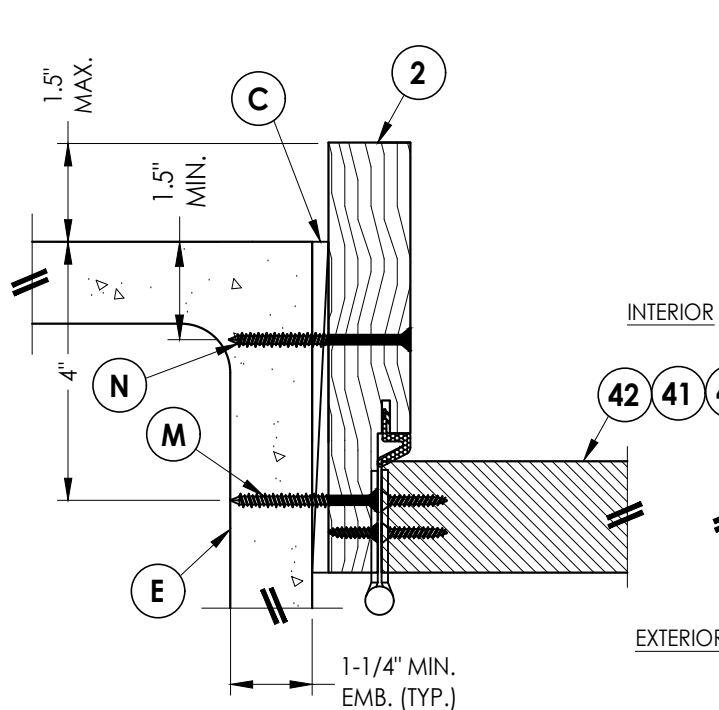
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
± 40 PSF



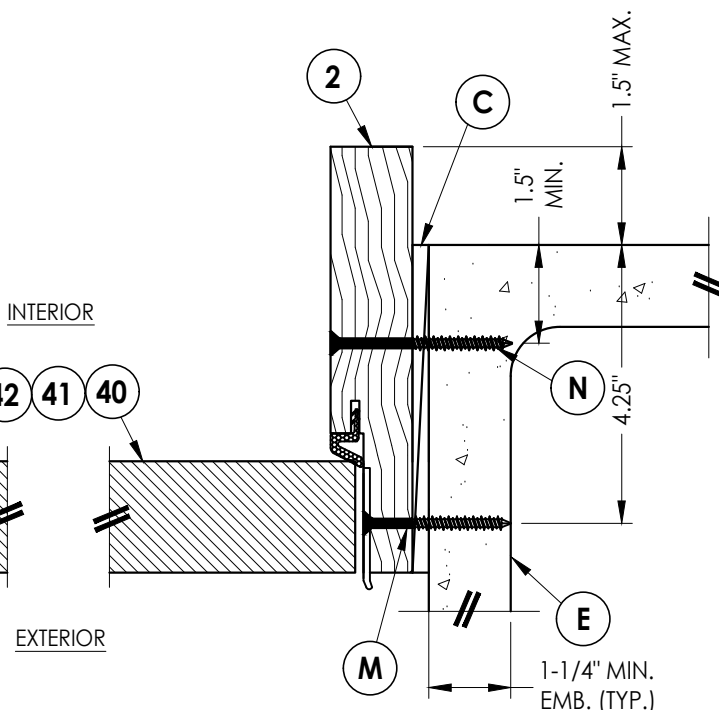
2
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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

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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023) FBC
1	8/05/20	UPDATE TO 7th ED (2020) FBC

DATE: 3/24/20

SCALE: N.T.S.

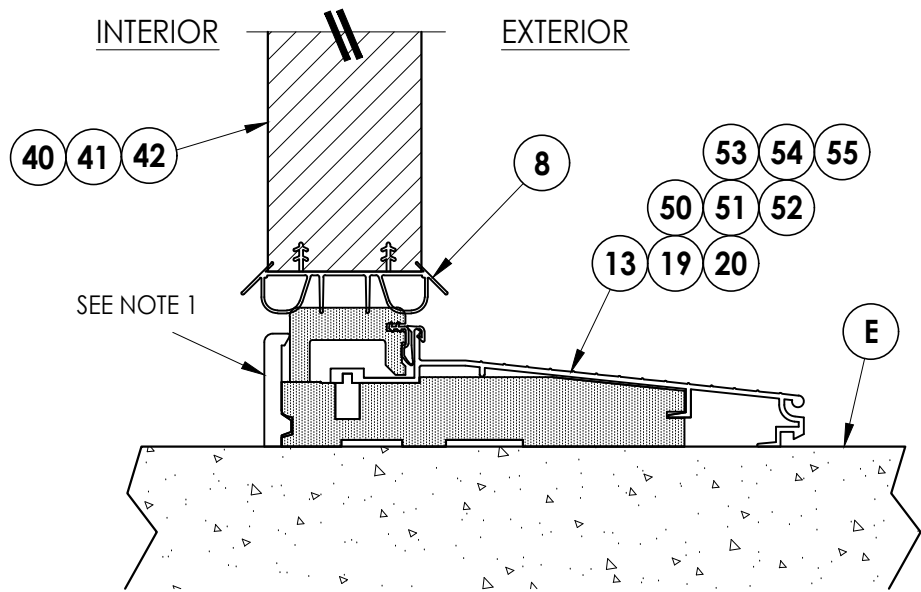
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CHK. BY: LFS

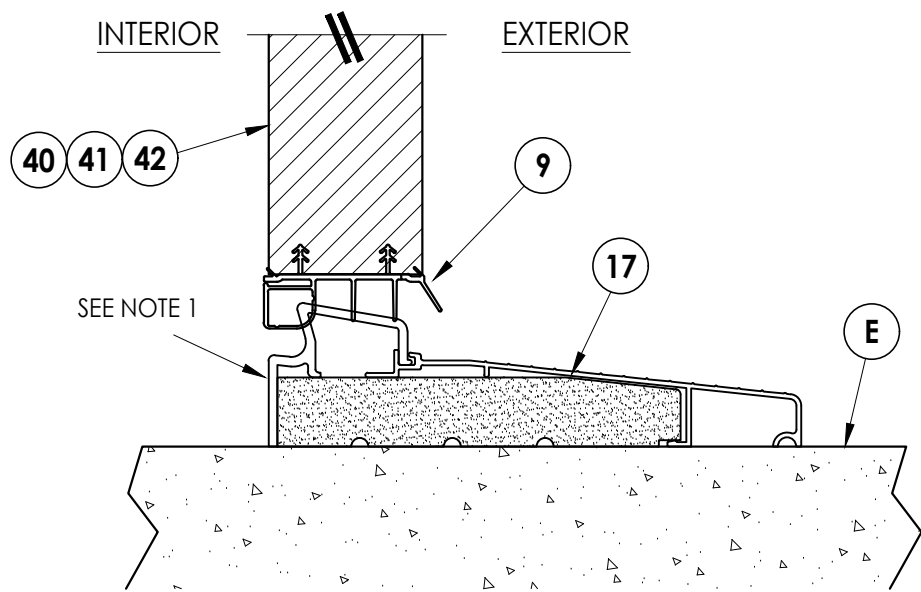
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FL-23955.11

SHEET 6 OF 10

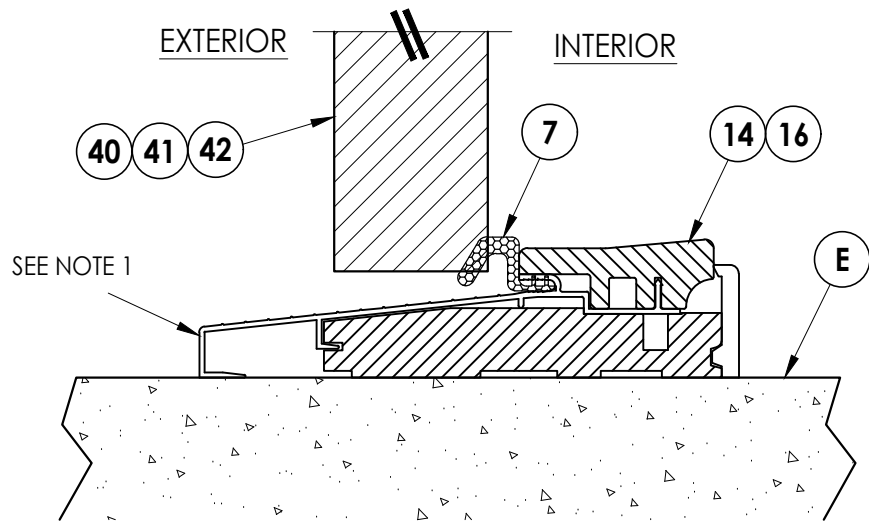
Notes:
1. Sill Item #'s 13, 16, 17, 19, 20, 50, 51, 52, 53, 54 & 55 are attached to jambs
w/3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 14 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
Sill Item # 18 is attached to jambs utilizing (4) #10 X 1-1/2" pph screws at each end.



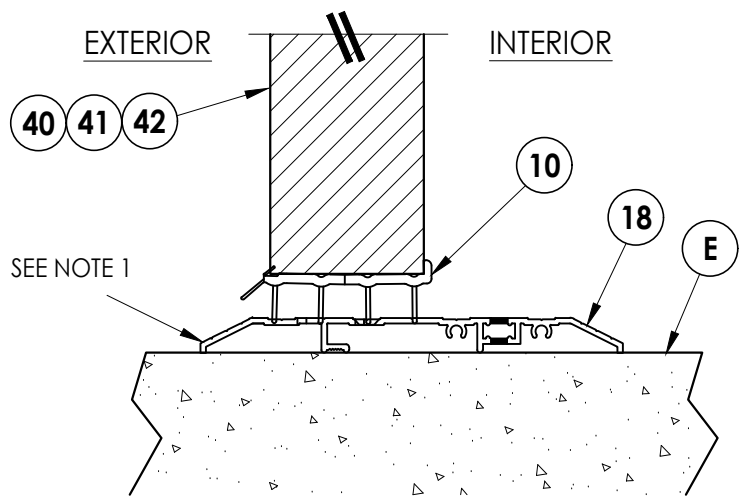
1
7 **VERTICAL CROSS SECTION**
Inswing Sill



2
7 **VERTICAL CROSS SECTION**
Inswing Sill



3
7 **VERTICAL CROSS SECTION**
Outswing Sill



4
7 **VERTICAL CROSS SECTION**
Public Access Sill

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:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS	
		BY	
2	8/22/23	LFS	UPDATE TO 8TH ED. (2023) FBC
1	8/05/20	LFS	UPDATE TO 7th ED (2020) FBC

DATE: 3/24/20

SCALE: N.T.S.

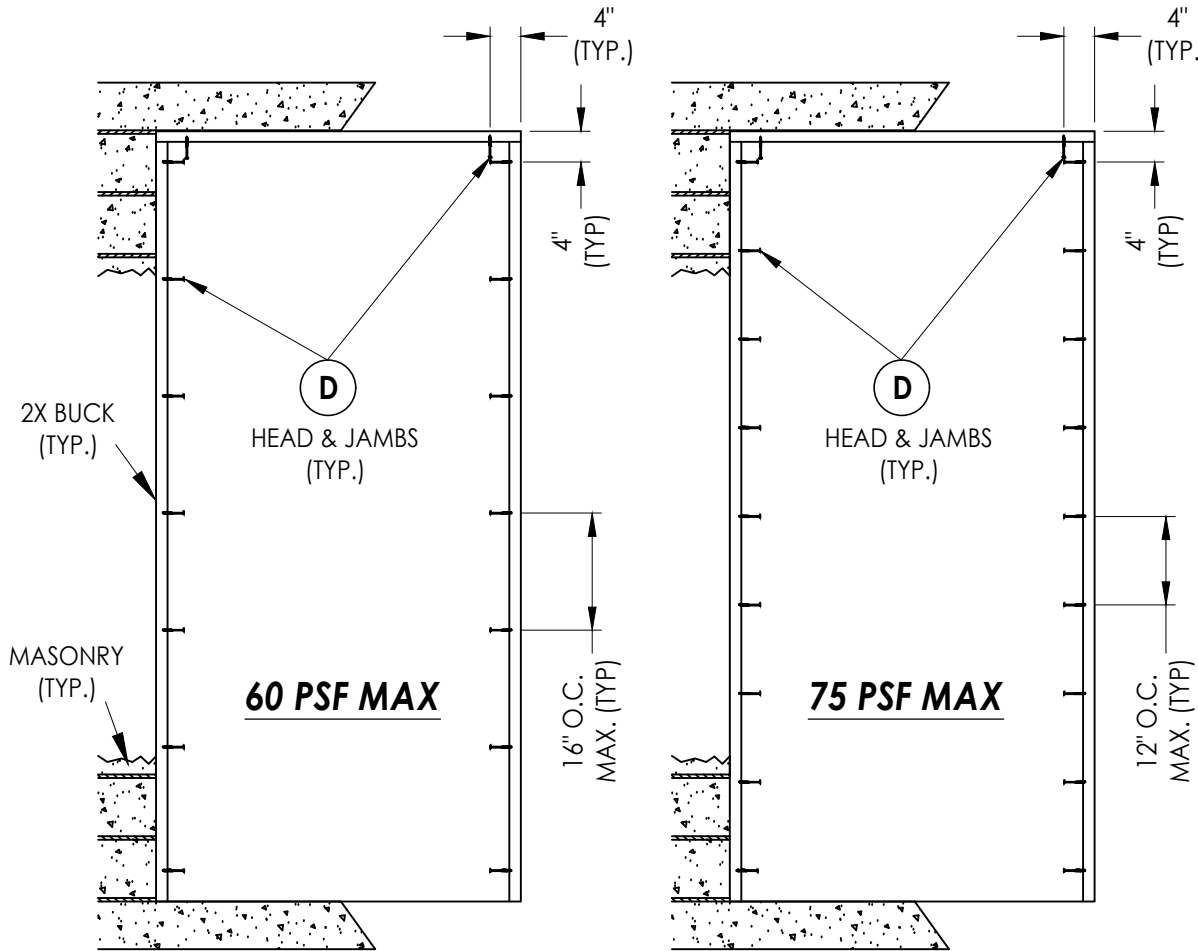
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CHK. BY: LFS

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FL-23955.11

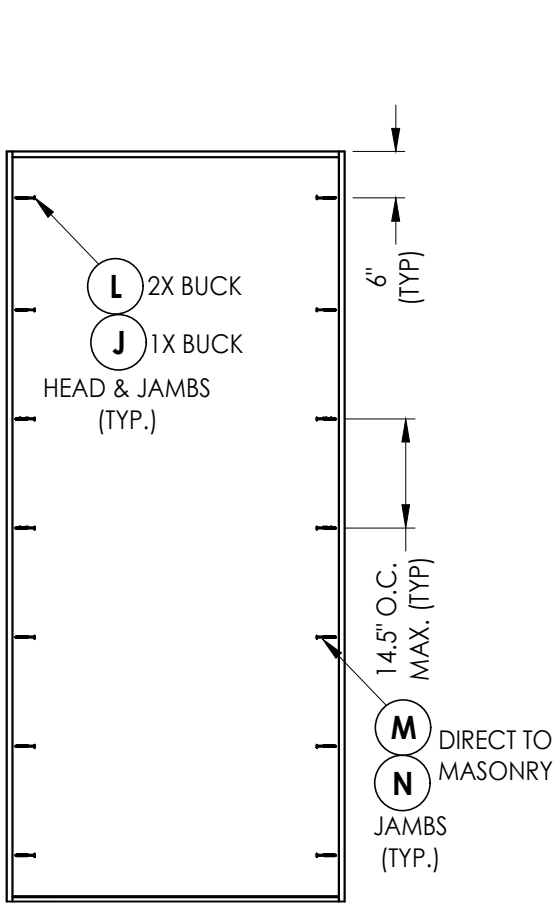
SHEET 7 of 10

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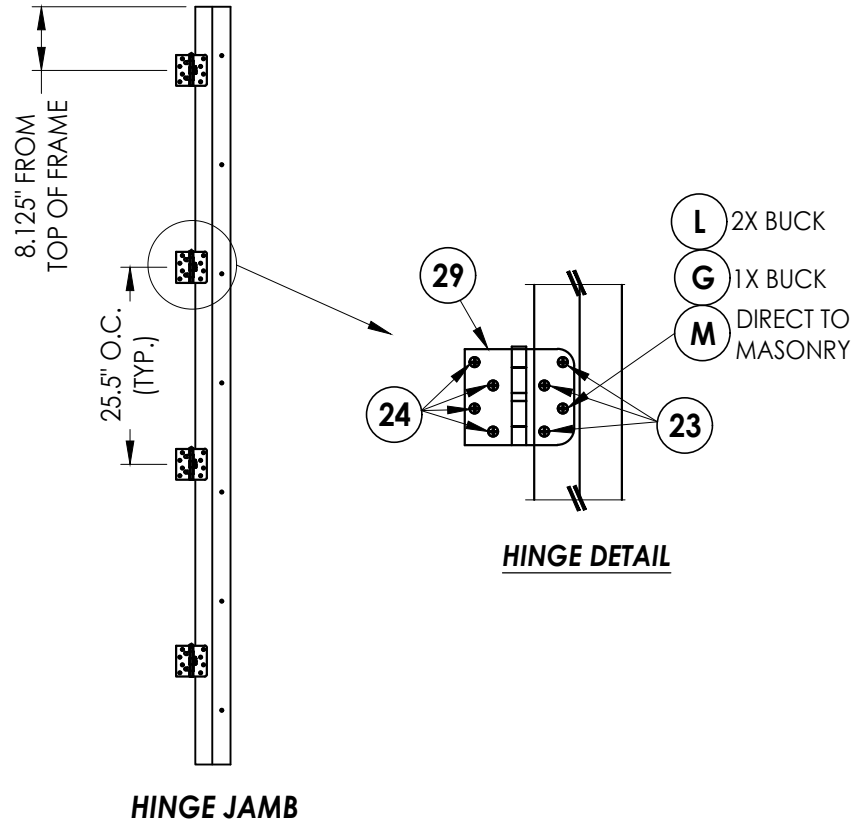


2X BUCK ANCHORING

2X BUCK ANCHORING



FRAME ANCHORING



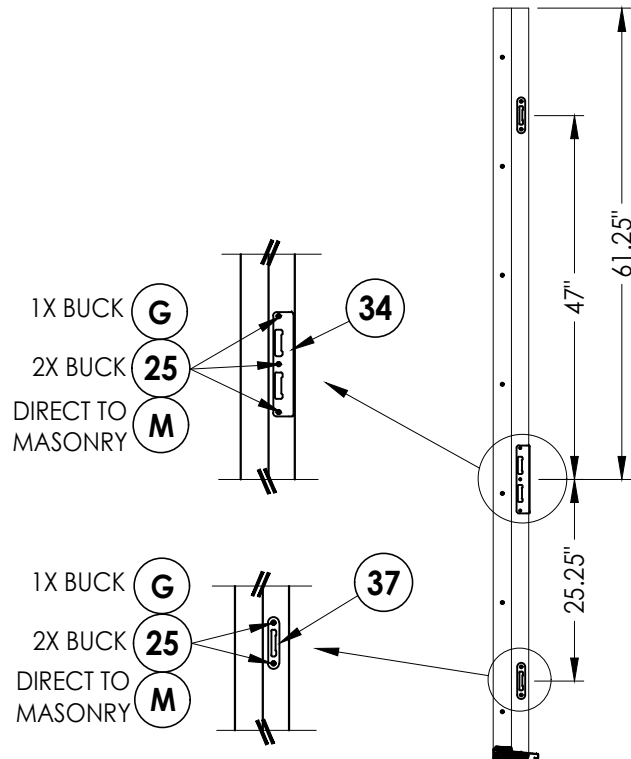
HINGE JAMB

HINGE DETAIL

- 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 ULTRA CON+®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	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.



MULTI-POINT LOCK STRIKE PLATE DETAILS

Documents Prepared By:
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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING
& HARDWARE DETAILS

NO.	DATE	REVISIONS
1	8/22/23	UPDATE TO 8TH ED. (2023) FBC
2	8/05/20	UPDATE TO 7th ED (2020) FBC

DATE: 3/24/20

SCALE: N.T.S.

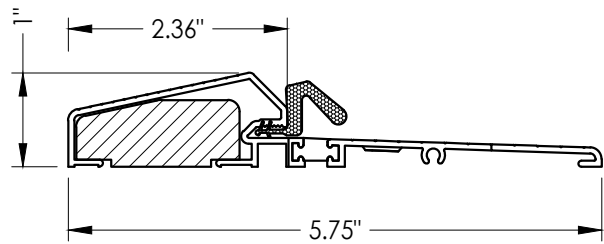
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CHK. BY: LFS

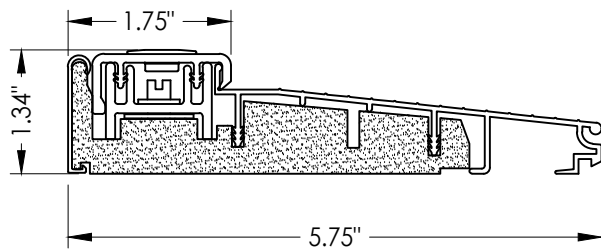
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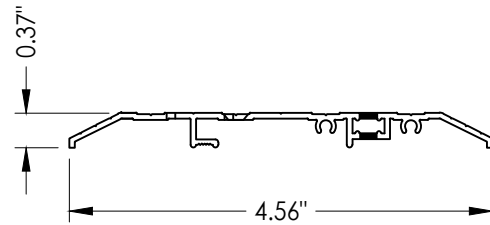
SHEET 8 OF 10



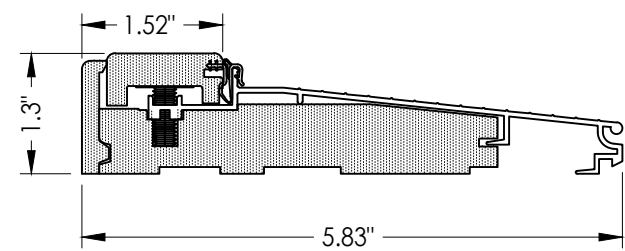
14 **OUTSWING THRESHOLD**



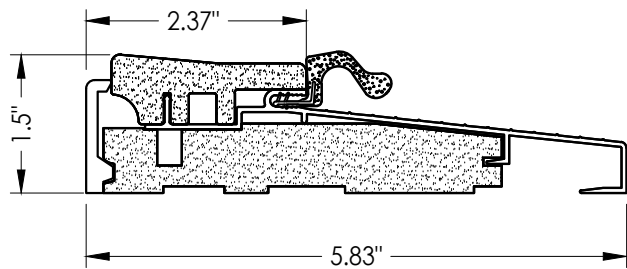
13 **INSWING THRESHOLD**
Adjustable



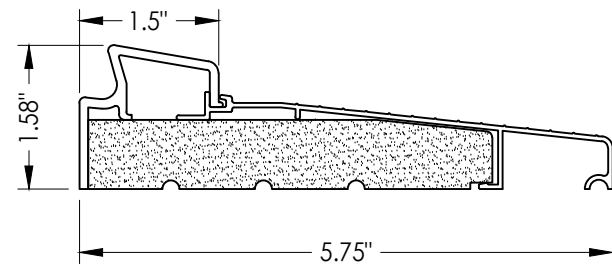
18 **PUBLIC ACCESS THRESHOLD**



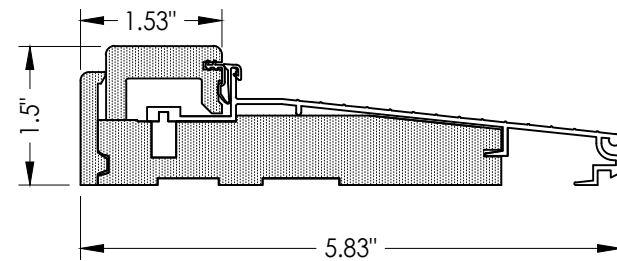
19 **INSWING THRESHOLD**
Adjustable



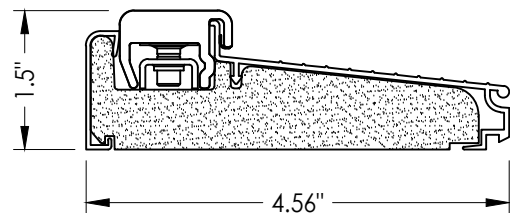
16 **OUTSWING THRESHOLD**



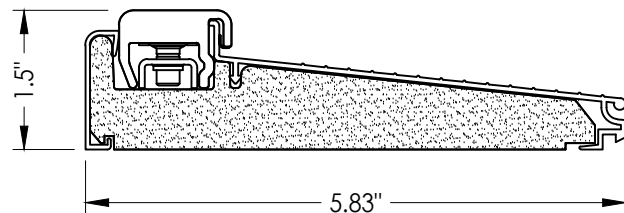
17 **INSWING THRESHOLD**
Basic Fixed



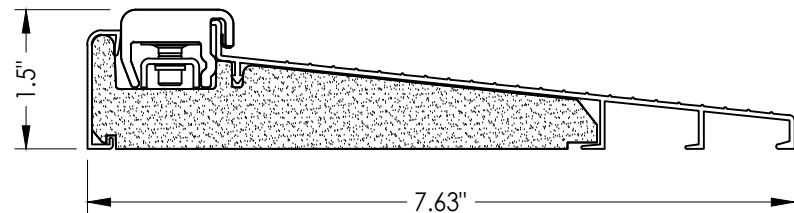
20 **INSWING THRESHOLD**
Adjustable



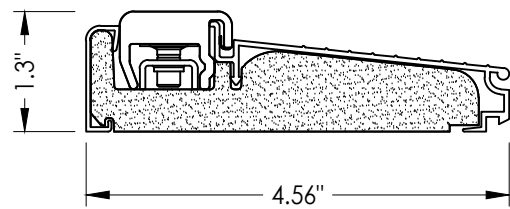
50 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
Book, Hybrid



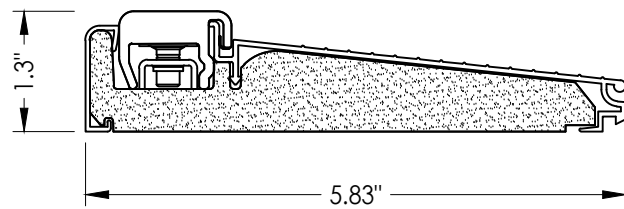
51 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
Book, Hybrid



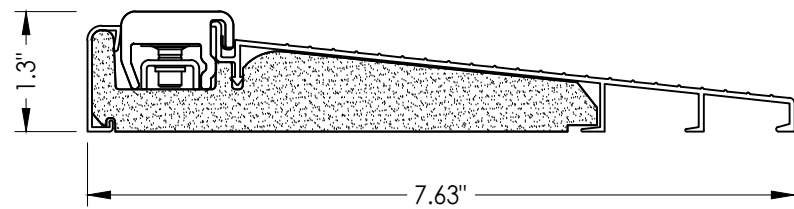
52 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
Book, Hybrid



53 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
U1



54 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
U1



55 **INSWING THRESHOLD**
Inswing Composite Adjustable Sill
U1

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS		
		DATE	BY	REVISIONS
2	8/22/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
1	8/05/20	UPDATE TO 7th ED (2020)	FBC	LFS

DATE: 3/24/20

SCALE: N.T.S.

DWG. BY: RW

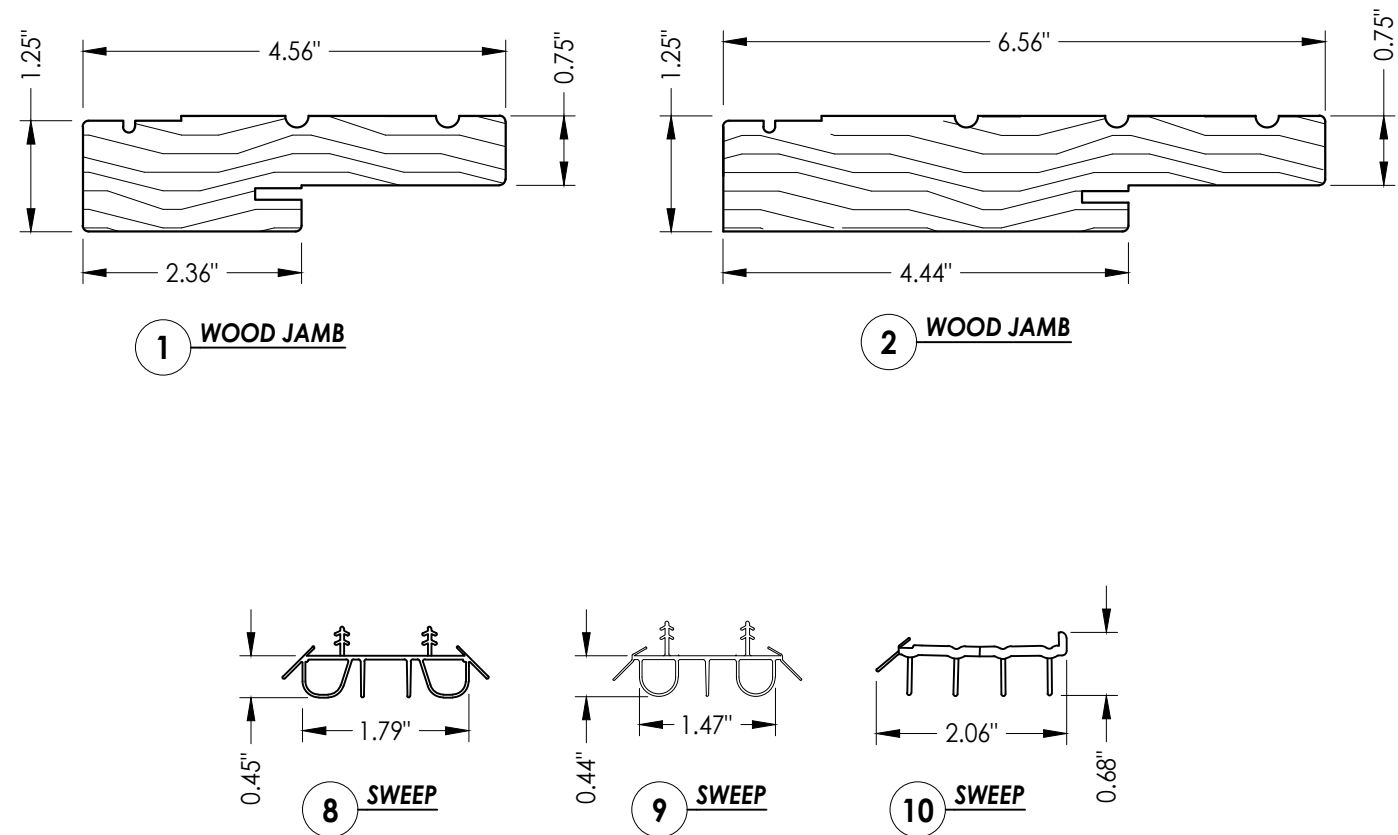
CHK. BY: LFS

DRAWING NO.:
FL-23955.11

SHEET 9 OF 10

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" 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
M	3/16" X 2-1/4" PFH 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
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	SWEEP	VINYL
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
16	OUTSWING THRESHOLD	ALUM/COMP
17	INSWING THRESHOLD	ALUM/COMP
18	PUBLIC ACCESS THRESHOLD	ALUM
19	INSWING THRESHOLD	ALUM/COMP
20	INSWING THRESHOLD	ALUM/COMP
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
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
40	DOOR PANEL (BOOK DOOR)	-
41	DOOR PANEL (HYBRID DOOR)	-
42	DOOR PANEL (U1 DOOR)	-
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



2	8/22/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
1	8/05/20	UPDATE TO 7th ED (2020)	FBC	LFS	
NO.	DATE			BY	
					REVISIONS

DATE:	3/24/20
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-23955.11
SHEET	10 OF 10

Documents Prepared By:
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P.E. No. 43409

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FBPE Registry No. 9813

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