THERMA-TRU® DOORS

Classic-Craft®

OPAQUE FIBERGLASS SINGLE DOOR

INSWING/OUTSWING
"IMPACT"

L F Schmidt

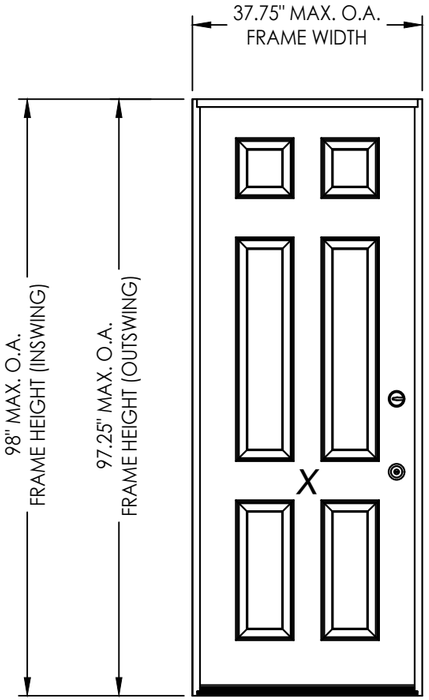
L. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Lyndon F Schmidt
Date: 2023.08.17 10:09:12 -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



GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) 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 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
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 coastal sill item #21 under active doors meet water infiltration requirements for the "HVHZ".
8. Inswing configurations and outswing configurations (other than sill item #21) under active doors 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

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

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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	BY
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/23/20	UPDATE TO 7TH ED (2020) FBC	LFS

DATE: 4/21/20
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-23957.4
SHEET 1 OF 10

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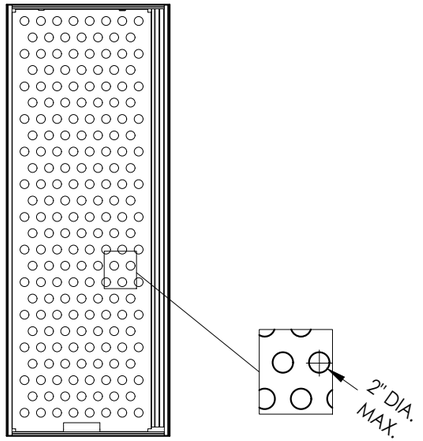
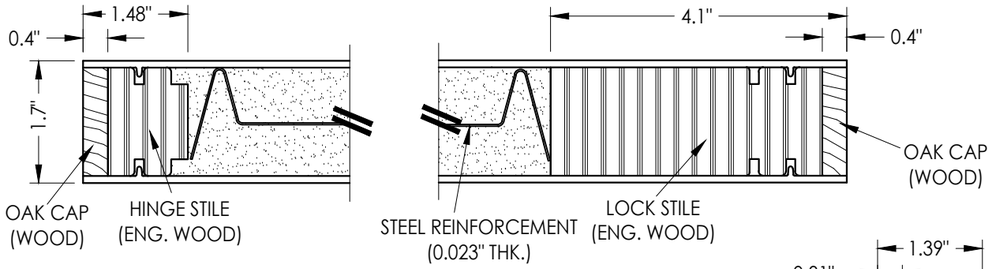


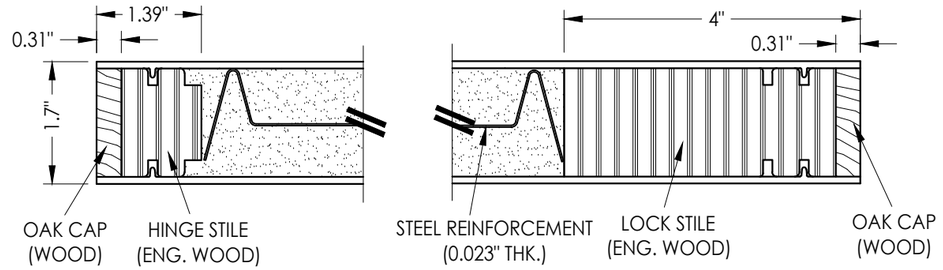
DOOR PANEL SECTION
PANEL REINFORCEMENT
(0.023" Thick Steel)

STEEL REINFORCEMENT
28.86% OPEN
AREA MAX.

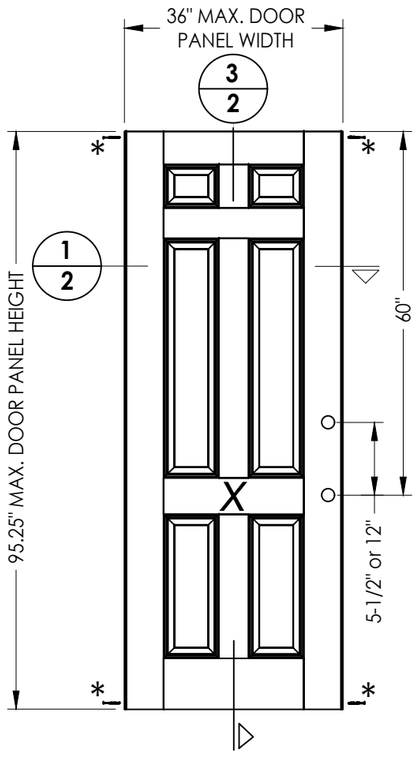
* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



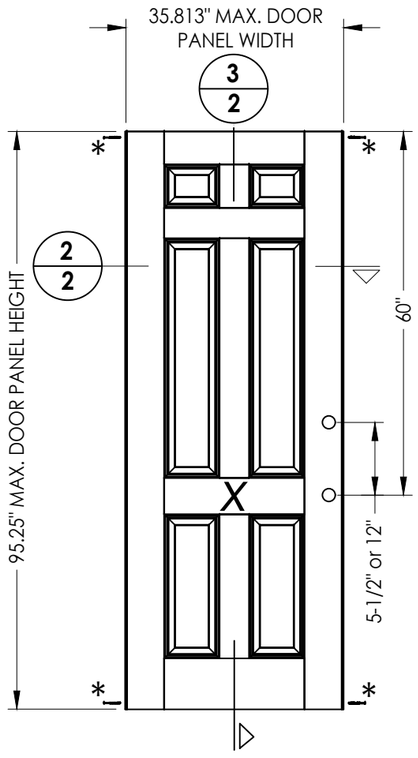
1/2 ***HORIZONTAL CROSS SECTION***



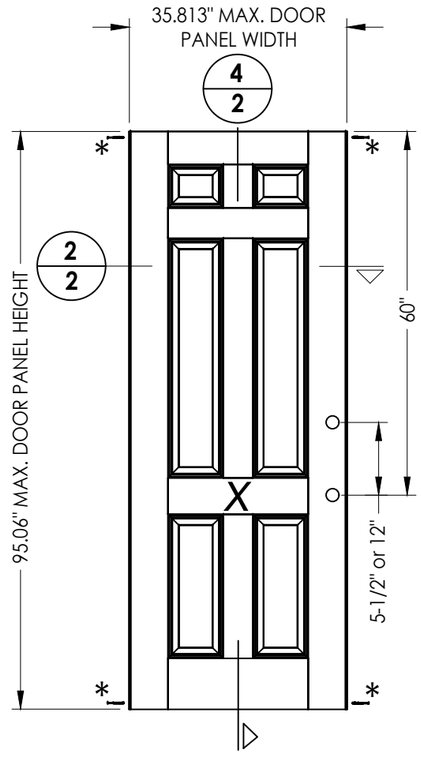
2/2 ***HORIZONTAL CROSS SECTION***



40 ***DOOR PANEL***
BOOK



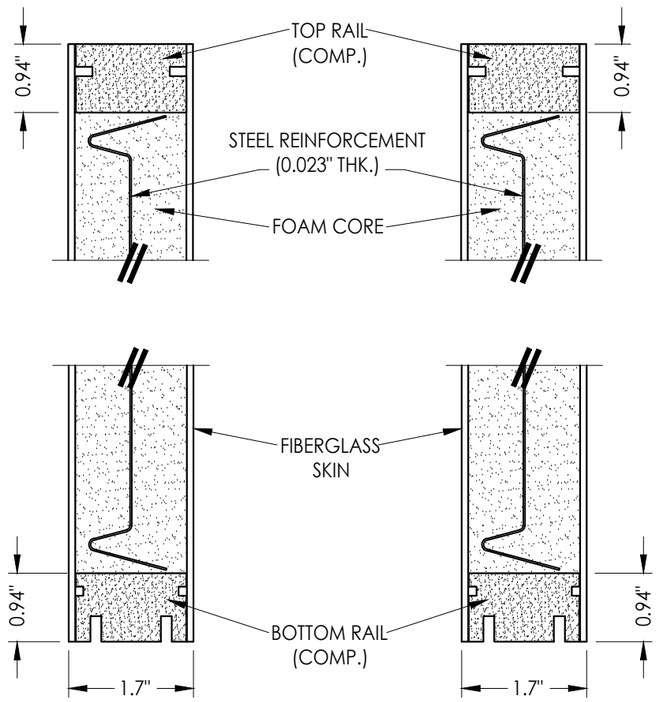
41 ***DOOR PANEL***
Hybrid Door



42 ***DOOR PANEL***
U1 Door

"Classic-Craft" SERIES DOOR PANEL

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



3/2 ***VERTICAL CROSS SECTION***

4/2 ***VERTICAL CROSS SECTION***

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: *DOOR PANEL DETAILS*

NO.	DATE	REVISIONS	BY
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/23/20	UPDATE TO 7TH ED (2020) FBC	LFS

DATE: 4/21/20
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DRAWING NO.: FL-23957.4
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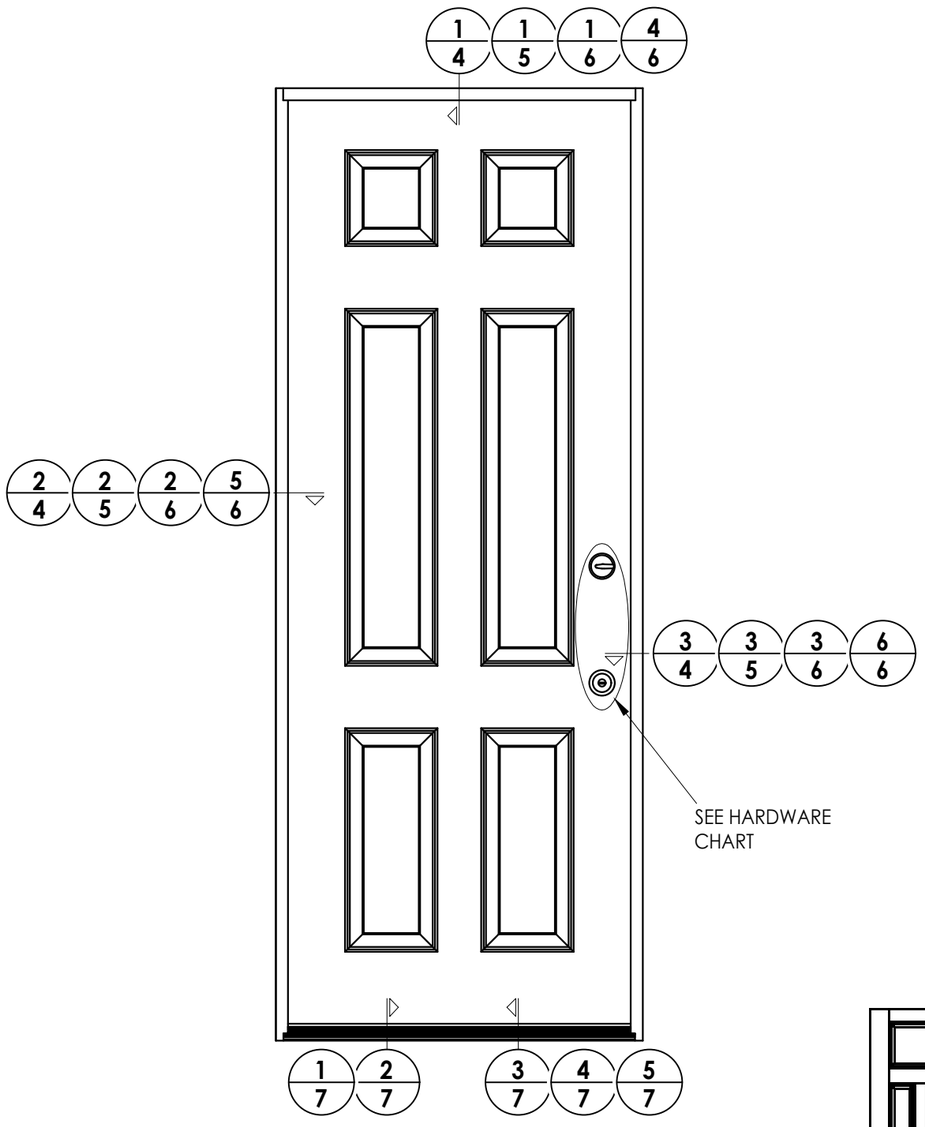
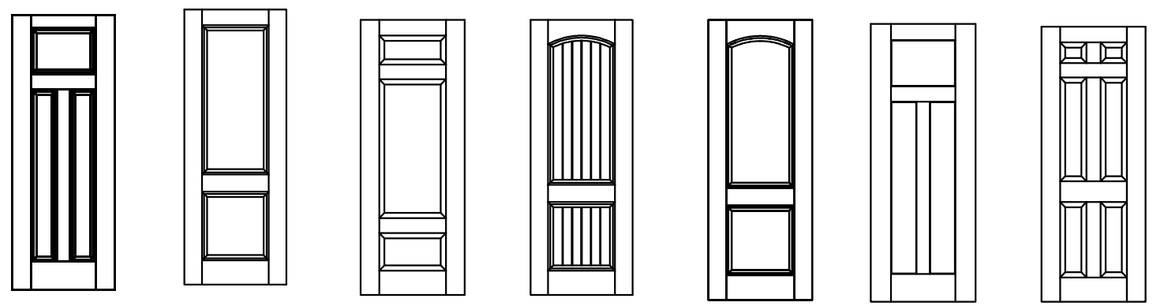


HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)



Classic-Craft Door Panel Options

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

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P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
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PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *ELEVATIONS*

NO.	DATE	REVISIONS	BY
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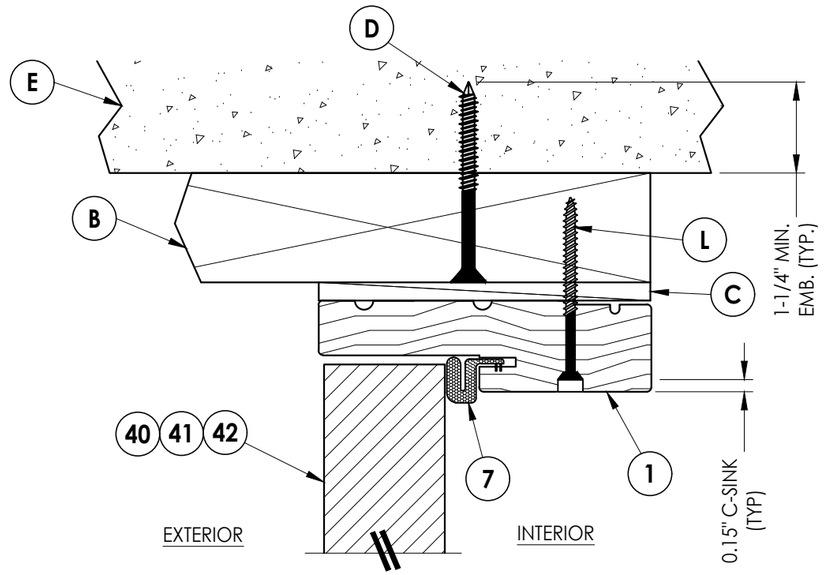
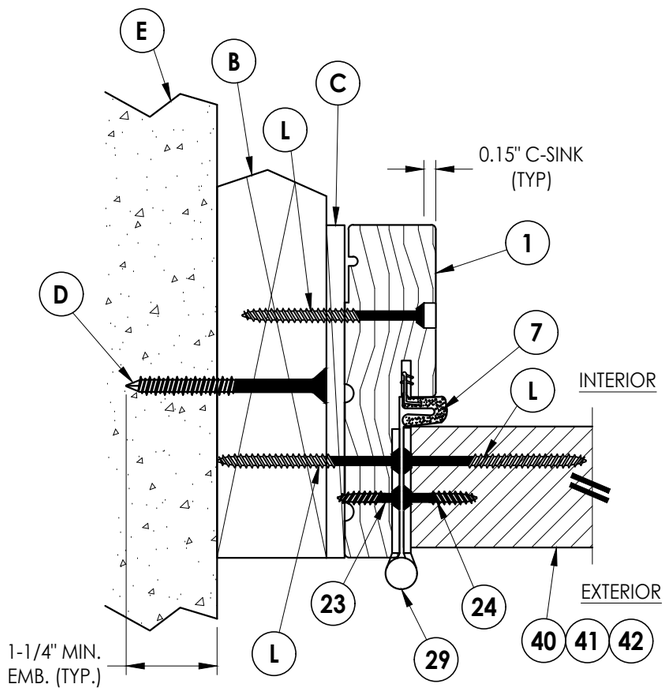
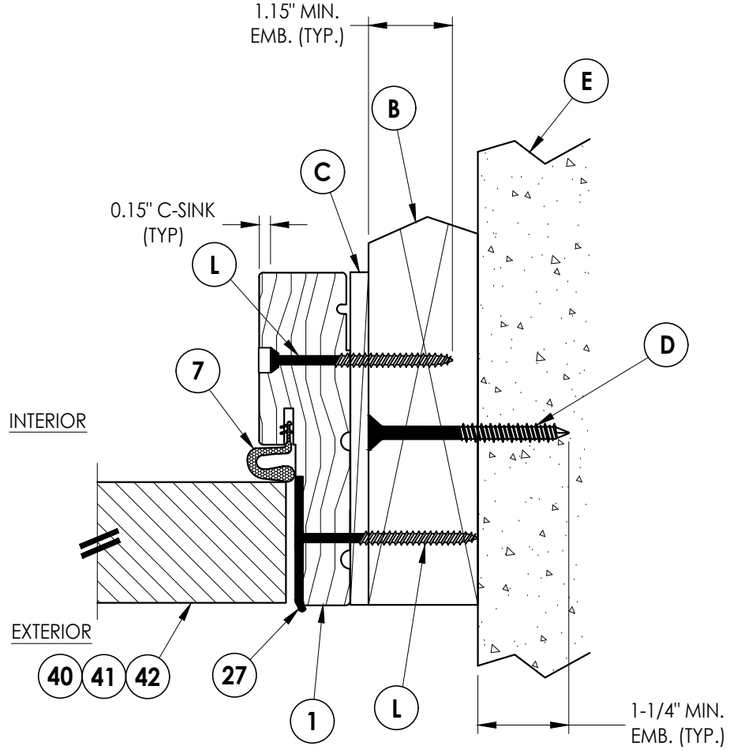


1/4 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

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Lyndon F. Schmidt
P.E. No. 43409

R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

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

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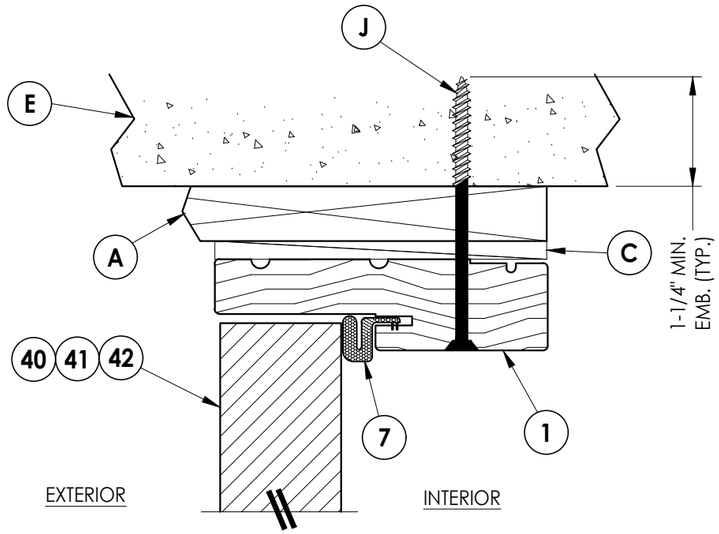
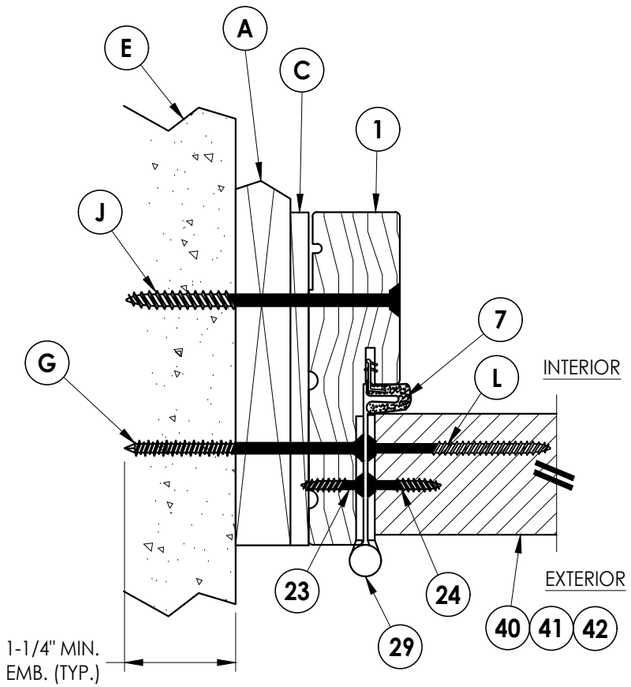
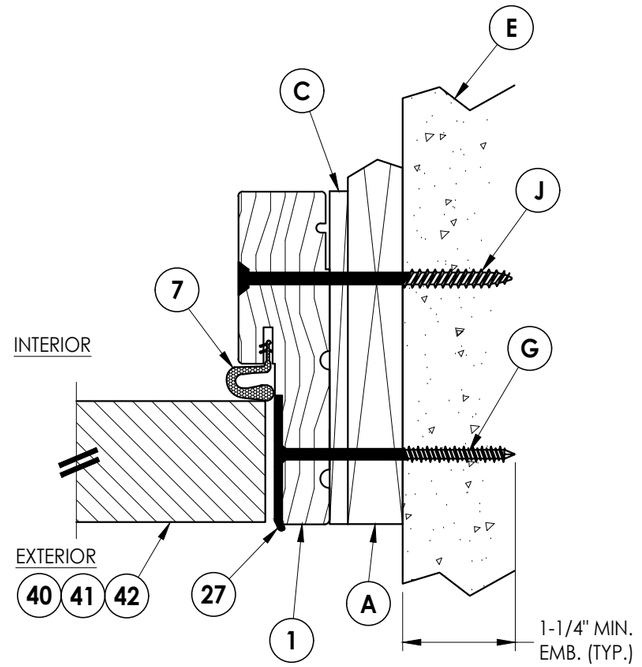


1/5 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2/5 HORIZONTAL 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)

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P.E. No. 43409

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PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

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

NO.	DATE	REVISIONS	BY
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC	LFS
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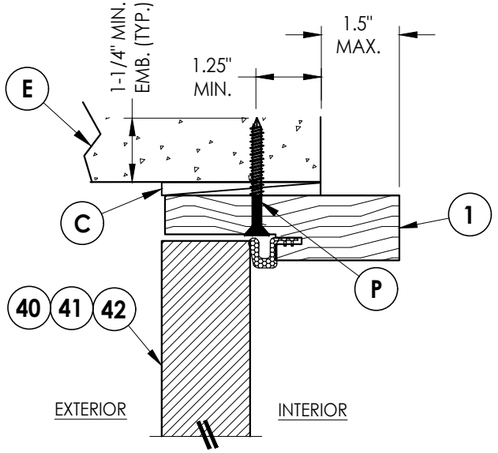
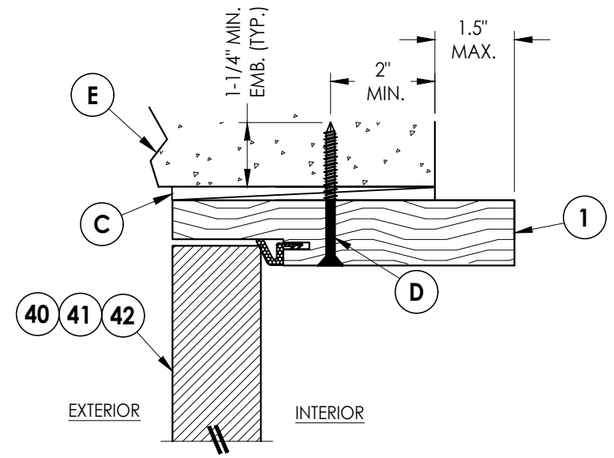
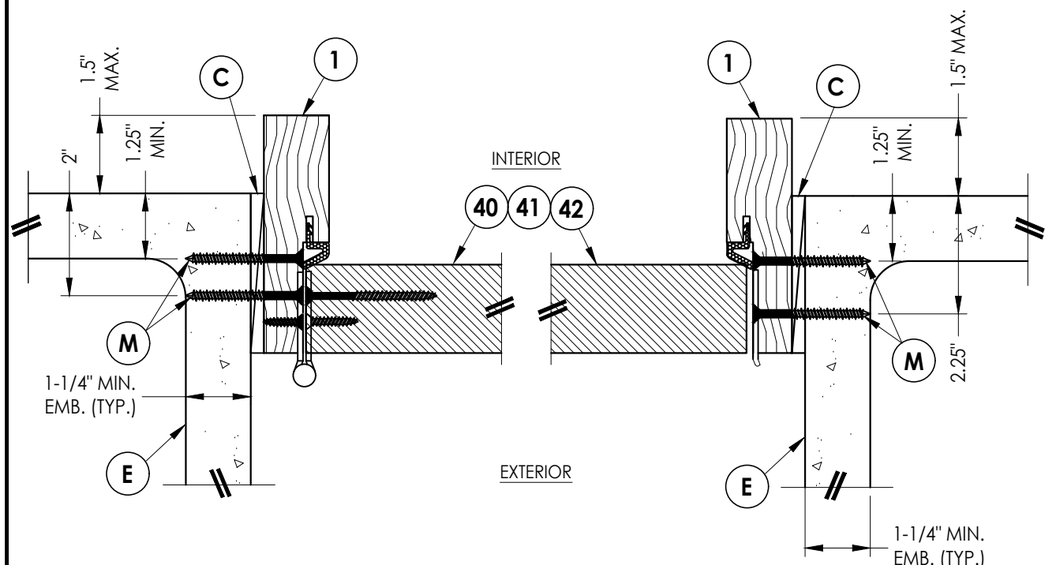


1/6 ***VERTICAL CROSS SECTION***
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



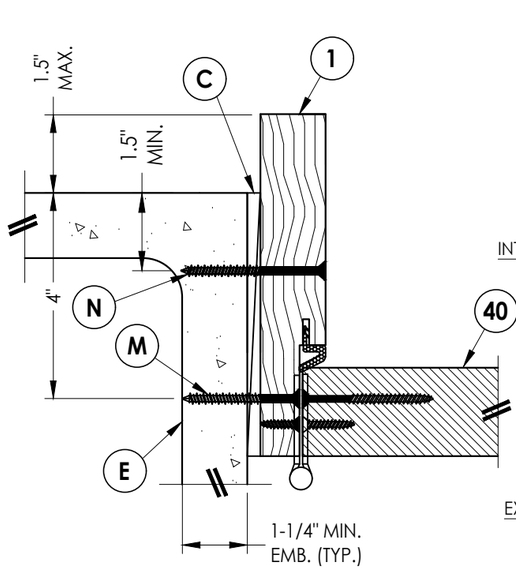
4/6 ***VERTICAL CROSS SECTION***
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

DIRECT TO MASONRY MAX. DESIGN PRESSURE:
± 47 PSF

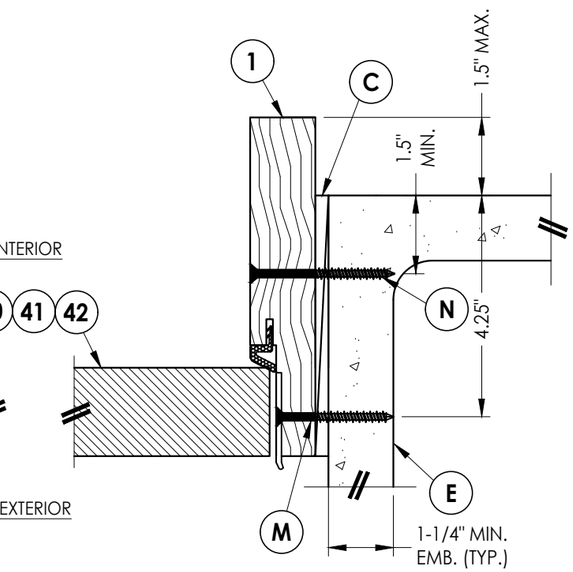


2/6 ***HORIZONTAL CROSS SECTION***
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

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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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	BY
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC	LFS
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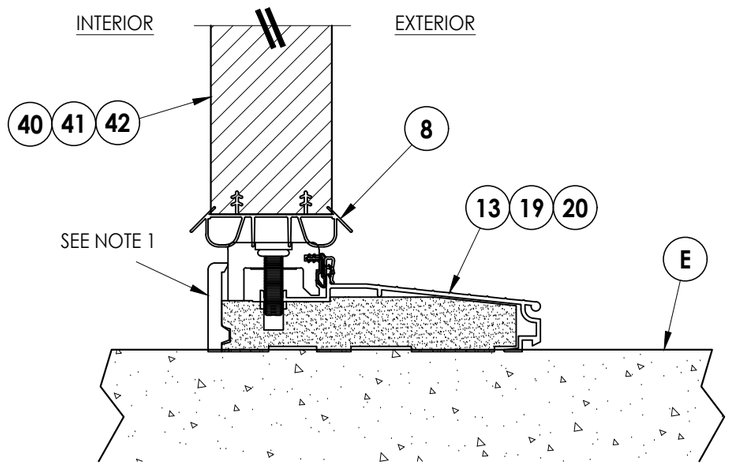
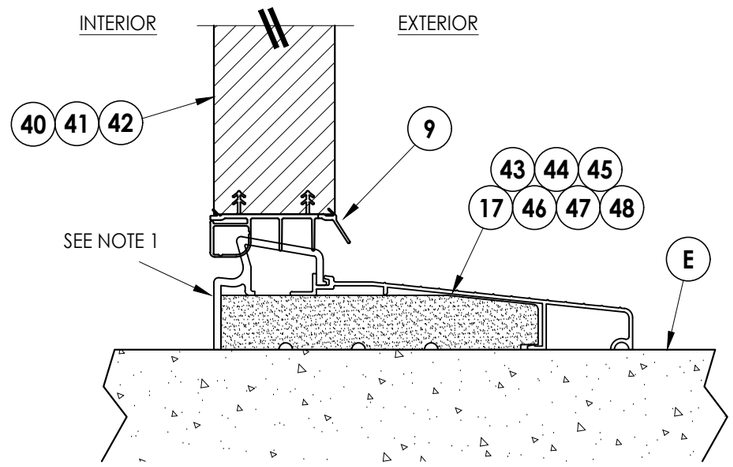
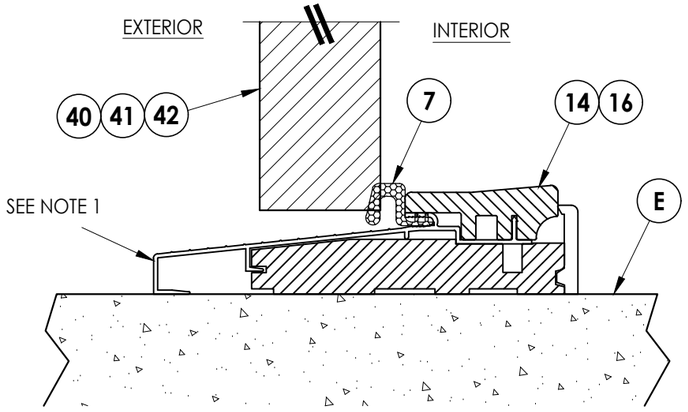
Notes:
1. Sill Item #'s 13, 16, 17, 19, 20, 43, 44, 45, 46, 47 & 48 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
   Sill Item #'s 14, & 21 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
   Sill Item #18 is attached to jambs utilizing (2) #10 X 1-1/2" pph screws at each end.



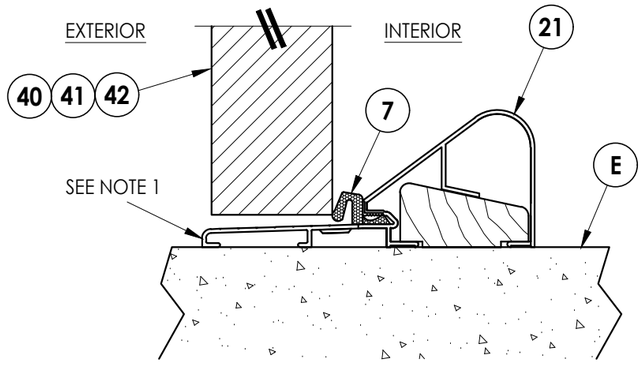
1/7 **VERTICAL CROSS SECTION**
Inswing Sill



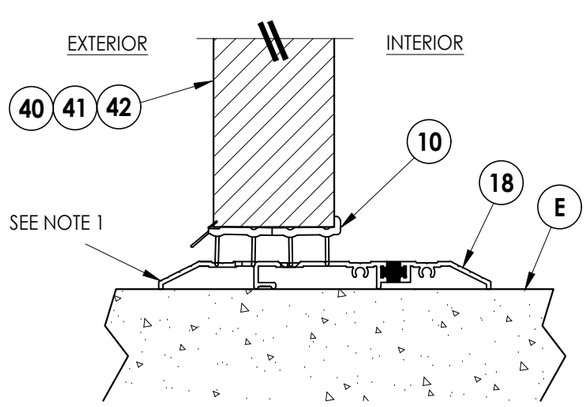
2/7 **VERTICAL CROSS SECTION**
Inswing Sill



3/7 **VERTICAL CROSS SECTION**
Outswing Sill



4/7 **VERTICAL CROSS SECTION**
Outswing Coastal Sill



5/7 **VERTICAL CROSS SECTION**
Public Access Sill

Documents Prepared By:
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P.E. No. 43409

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

NO.	DATE	REVISIONS	BY
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC	LFS
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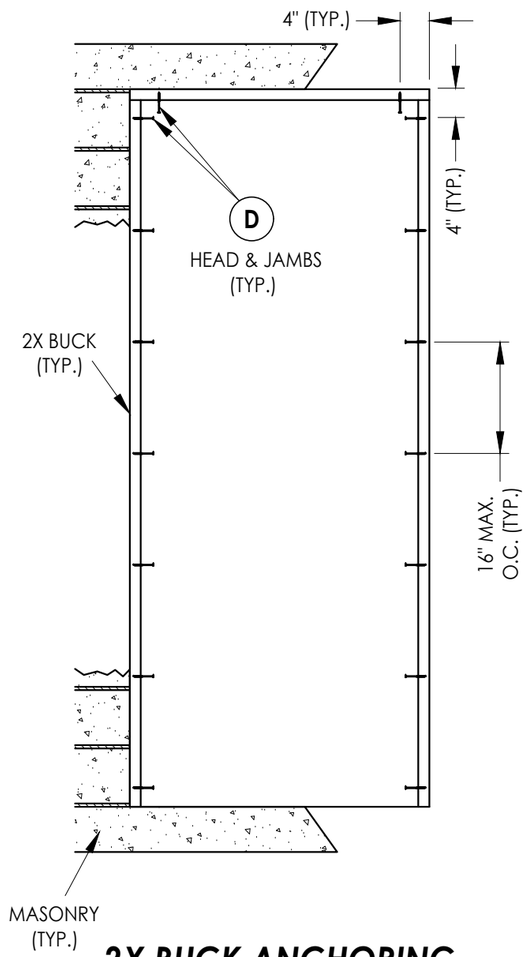
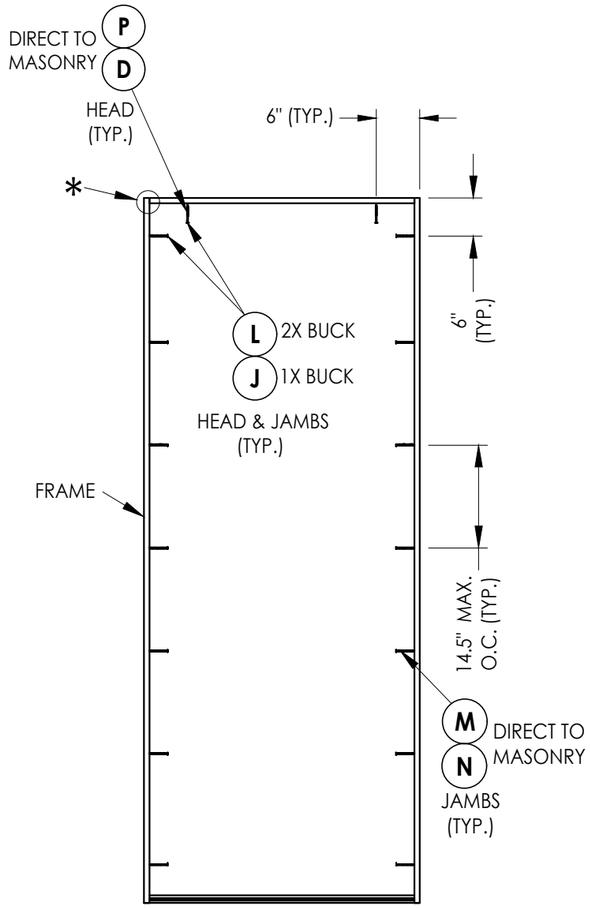
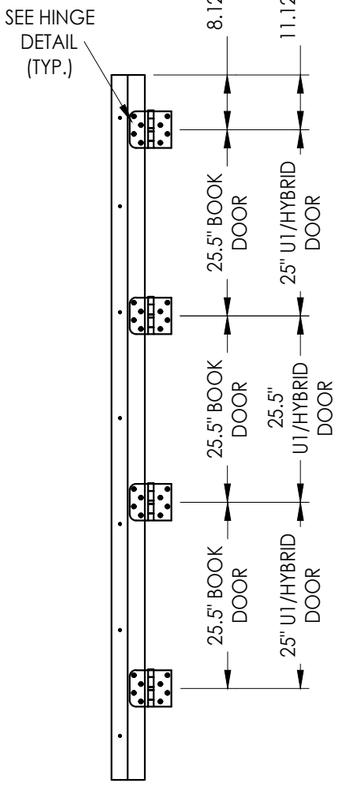
* NOTE: FRAME CORNERS @ HEAD ATTACHED TOGETHER w/ (3) #8 X 2-1/2" PFH WS (TYP.)



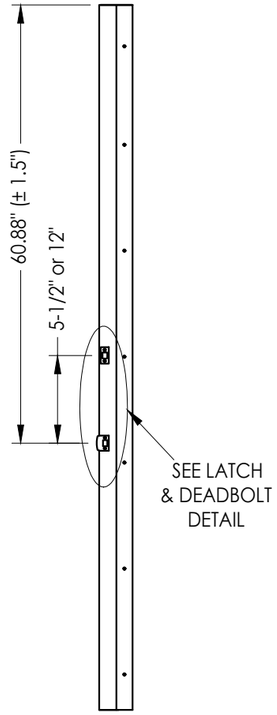
2X BUCK ANCHORING



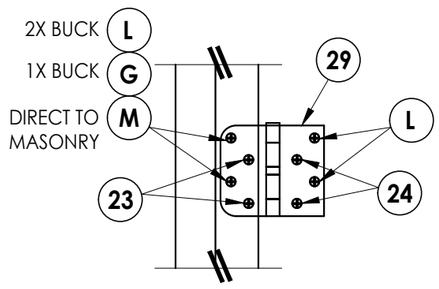
FRAME ANCHORING



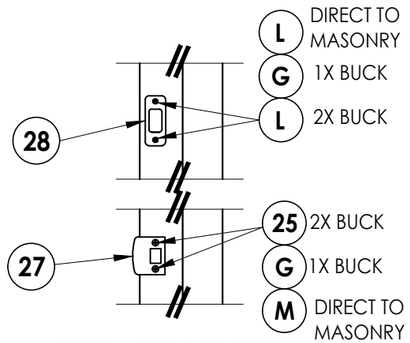
HINGE JAMB



STRIKE JAMB
Latch & Deadbolt



HINGE DETAIL



LATCH & DEADBOLT DETAIL

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

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PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *BUCK & FRAME ANCHORING*

NO.	DATE	REVISIONS	BY
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC	LFS
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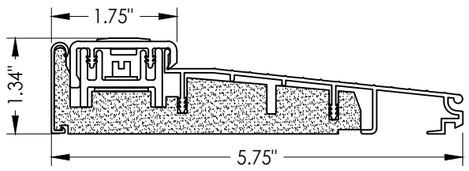
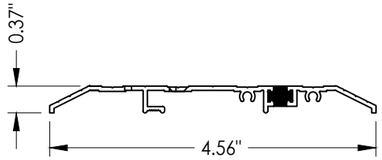
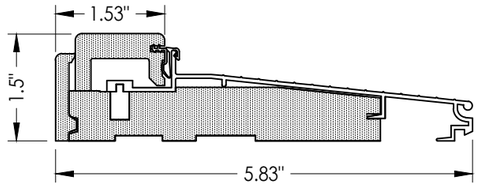


13 ***INSWING THRESHOLD***
Adjustable



18 ***PUBLIC ACCESS THRESHOLD***



20 ***INSWING THRESHOLD***
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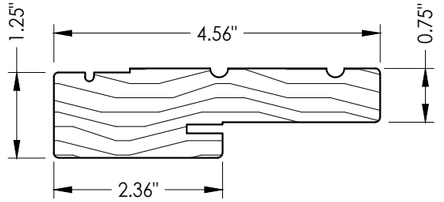
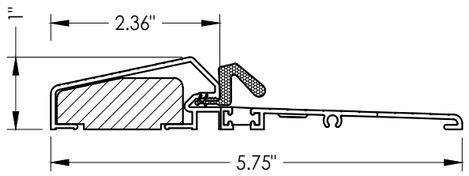
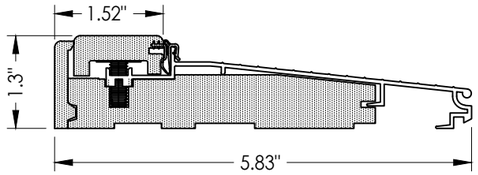


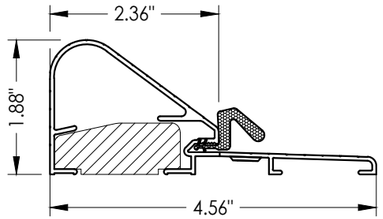
1 ***WOOD JAMB***



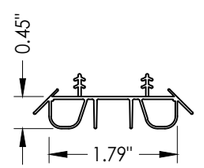
14 ***OUTSWING THRESHOLD***



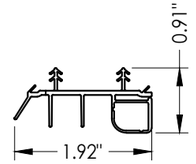
19 ***INSWING THRESHOLD***
Adjustable



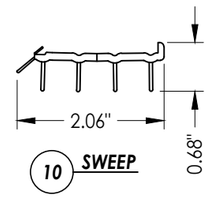
21 ***OUTSWING THRESHOLD***
Coastal



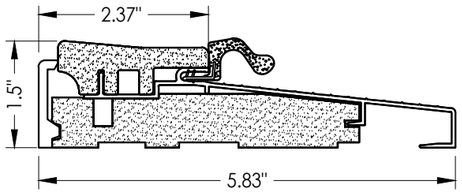
8 ***SWEEP***



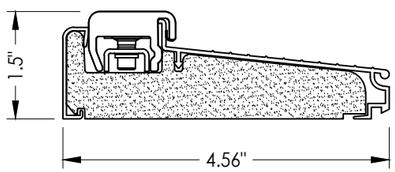
9 ***SWEEP***



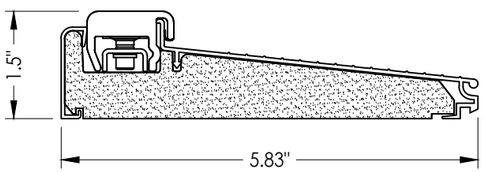
10 ***SWEEP***



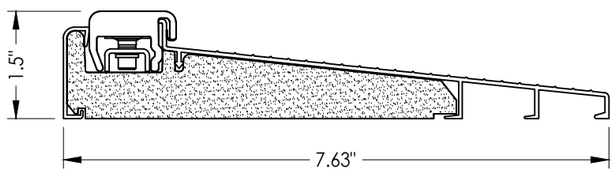
16 ***OUTSWING THRESHOLD***



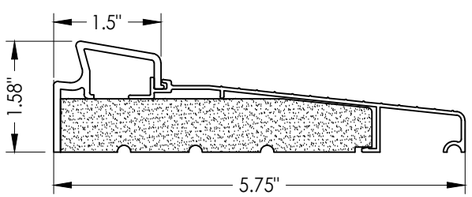
43 ***INSWING THRESHOLD***
Inswing Composite Adjustable Sill
Book, Hybrid



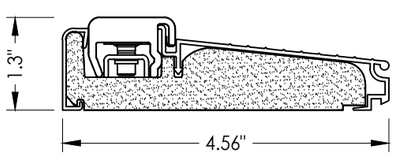
44 ***INSWING THRESHOLD***
Inswing Composite Adjustable Sill
Book, Hybrid



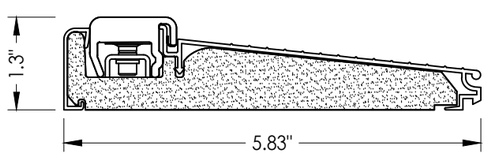
45 ***INSWING THRESHOLD***
Inswing Composite Adjustable Sill
Book, Hybrid



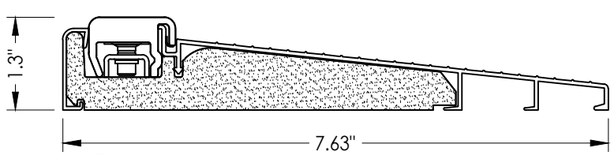
17 ***INSWING THRESHOLD***
Basic Fixed



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
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/23/20	UPDATE TO 7TH ED (2020) FBC	LFS

DATE: 4/21/20
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-23957.4
SHEET 9 OF 10

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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
P	1/4" X 2-3/4" PFH DeWALT CONCRETE SCREW	STEEL
1	JAMB (FINGER JOINT PINE)	WOOD
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	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
21	OUTSWING COASTAL THRESHOLD	ALUM/WOOD
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
40	DOOR PANEL (BOOK DOOR)	-
41	DOOR PANEL (HYBRID DOOR)	-
42	DOOR PANEL (U1 DOOR)	-
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

CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *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.*
3. *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:

1. *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

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PART OR ASSEMBLY: BILL OF MATERIALS

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DATE: 4/21/20
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DWG. BY: RW
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SHEET 10 OF 10

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