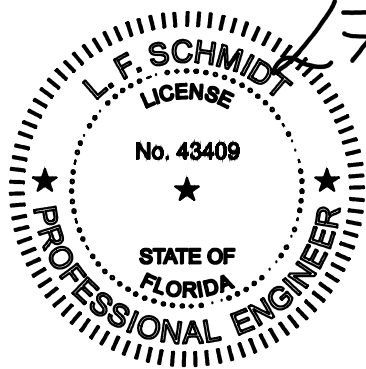
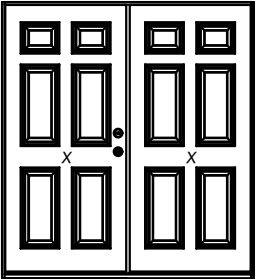




This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



OPAQUE FIBERGLASS DOUBLE DOOR

w/ or w/out SIDELITES

INSWING/OUTSWING

"IMPACT"

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, and all sills used under sidelites 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.

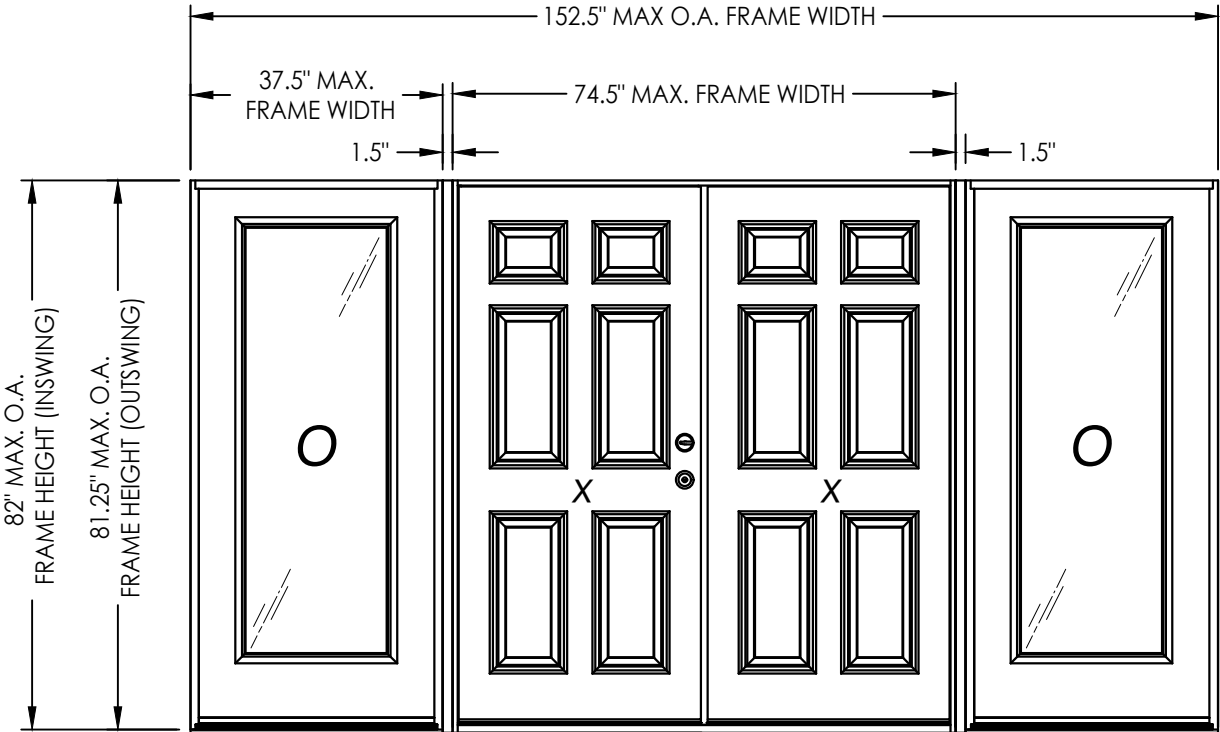


TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	
1	Typical Elevations, Design Pressures & General Notes	8	Vertical Cross Sections (Thresholds)
2	Door Panel Details	9	Buck Anchoring
3	Sidelite Panel Details	10	Frame Anchoring
4	Elevations	11	Hardware Details
5	Horizontal & Vertical Cross Sections (2X Buck)	12	Components
6	Horizontal & Vertical Cross Sections (1X Buck)	13	Bill of Materials
7	Horizontal & Vertical Cross Sections (Direct to Masonry)		

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX, OXXO	+55.0	-55.0	+55.0	-55.0

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

THERMA-TRU
FIBERGLASS DOOR

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

2

7/24/23

UPDATE TO 8TH ED. (2023)

FBC

LFS

1

7/23/20

UPDATE TO 7TH ED (2020)

FBC

LFS

NO.

DATE

BY

REVISIONS

DATE: 4/21/20

SCALE: N.T.S.

DWG. BY: RW

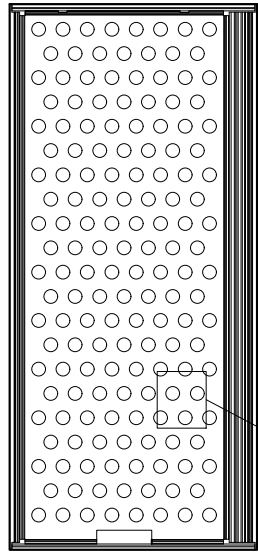
CHK. BY: LFS

DRAWING NO.:
FL-23957.3

SHEET 1 OF 13

Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

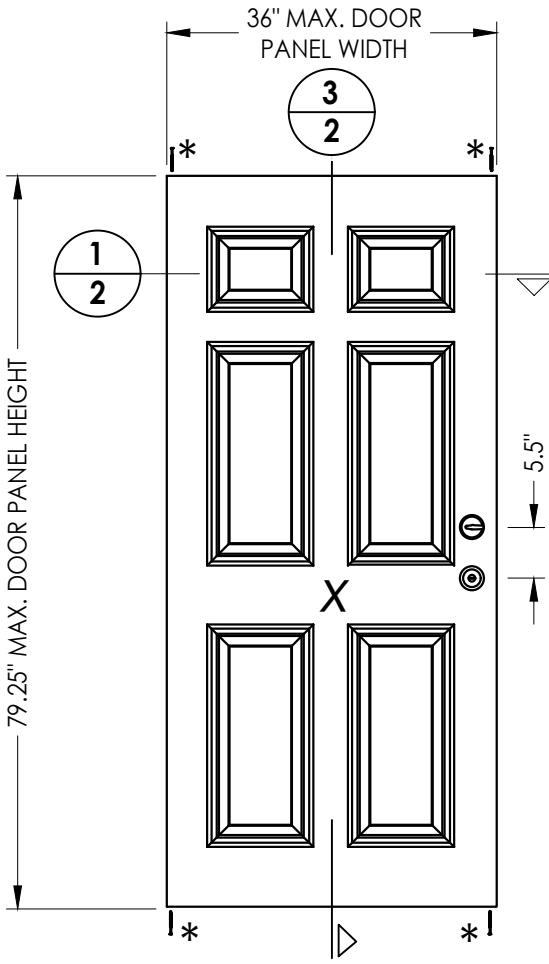
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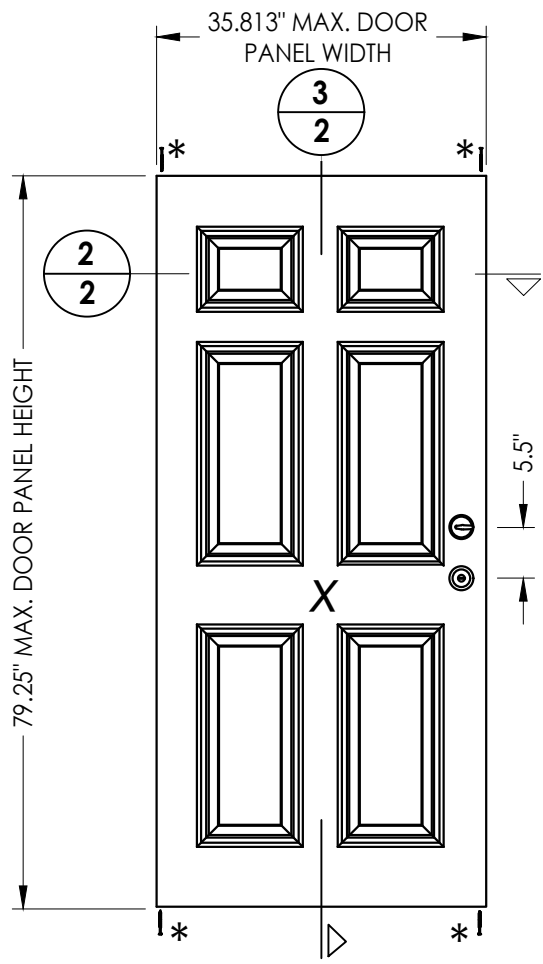
DOOR PANEL SECTION
PANEL REINFORCEMENT
(0.023" Thick Steel)

STEEL REINFORCEMENT
28.86% OPEN
AREA MAX.

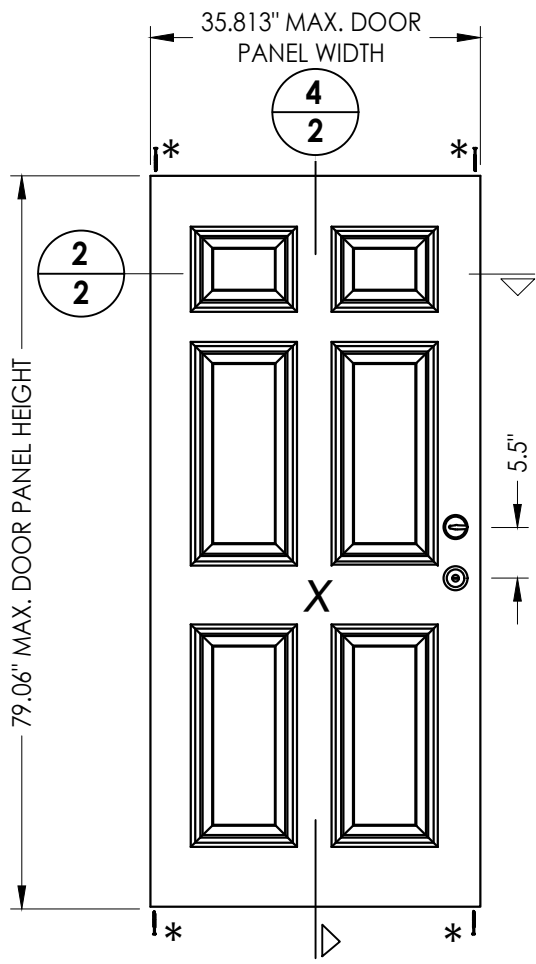
* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



40 DOOR PANEL
BOOK



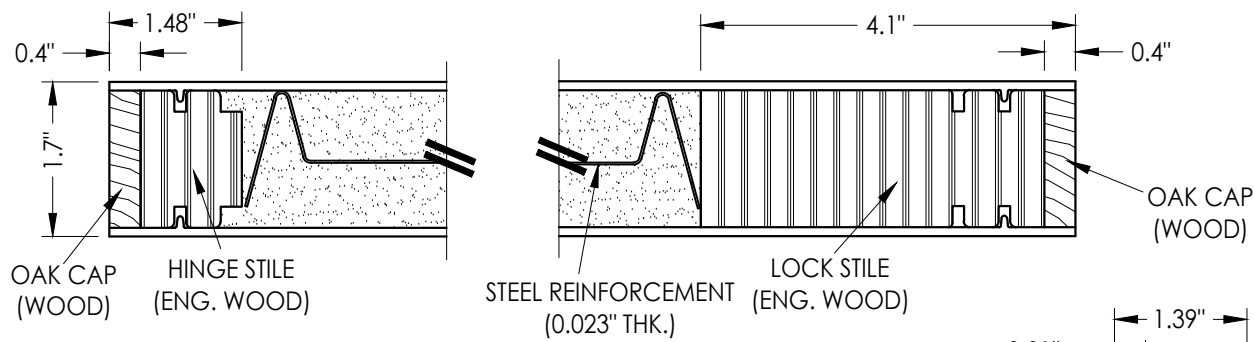
41 DOOR PANEL
Hybrid Door



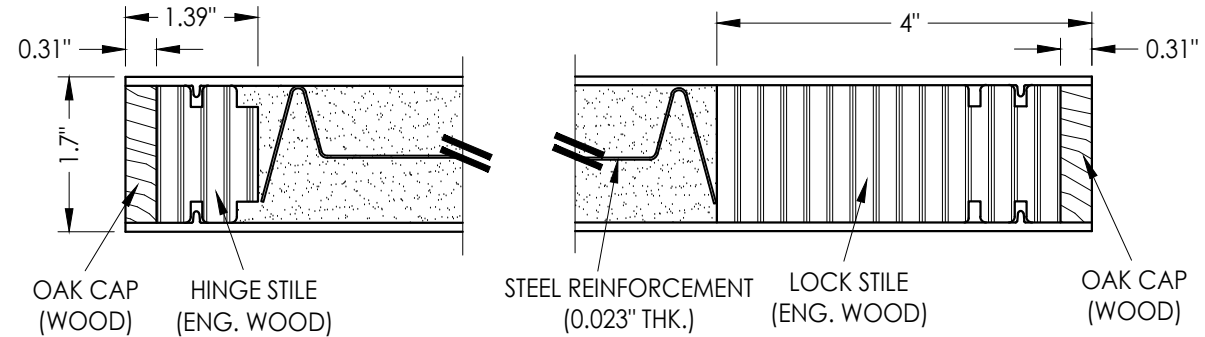
42 DOOR PANEL
U1 Door

"Classic-Craft" SERIES DOOR PANEL

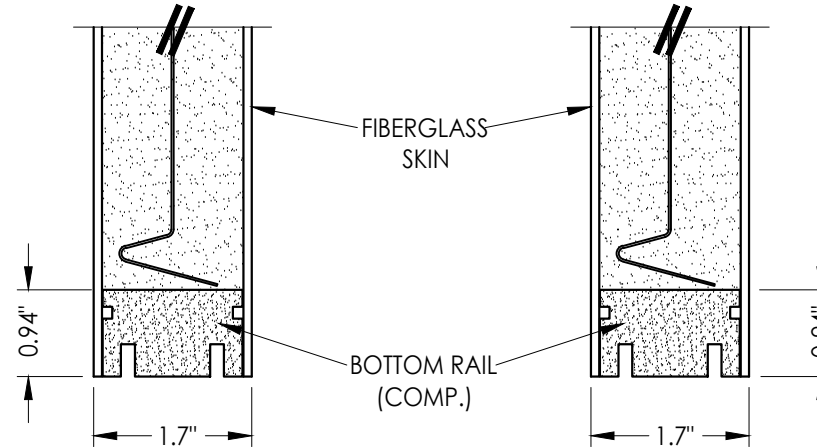
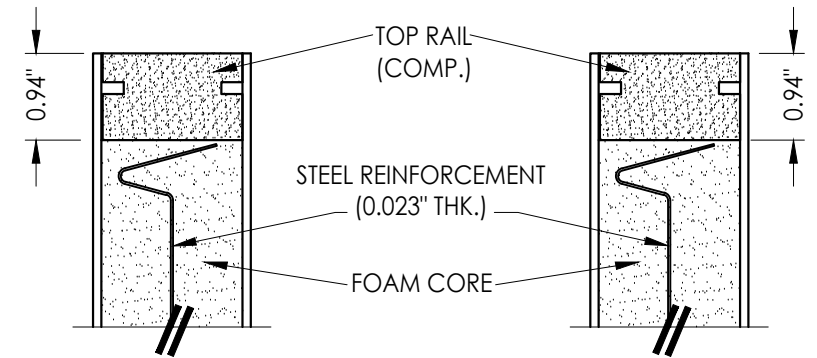
FIBERGLASS DOOR SKIN: 0.095" MIN. THK.
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)



1 HORIZONTAL CROSS SECTION



2 HORIZONTAL CROSS SECTION



3 VERTICAL CROSS SECTION

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

DATE: 4/21/20

SCALE: N.T.S.

DWG. BY: RW

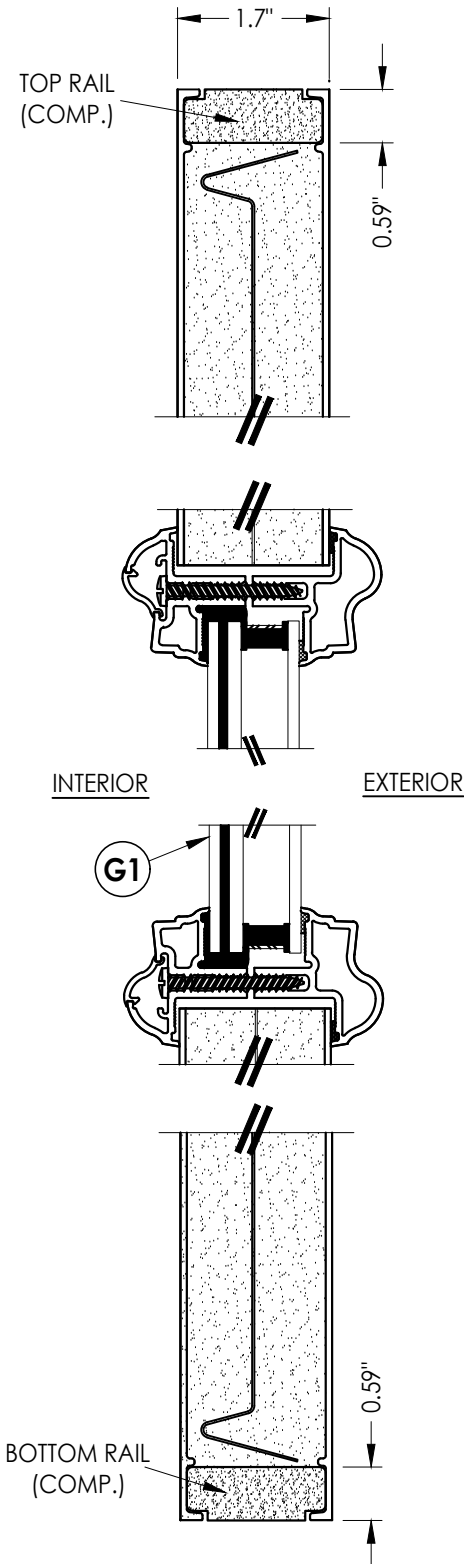
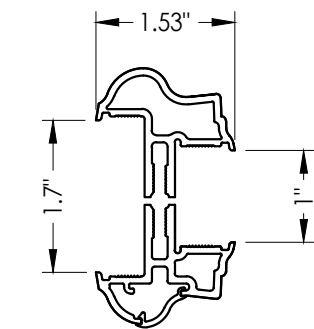
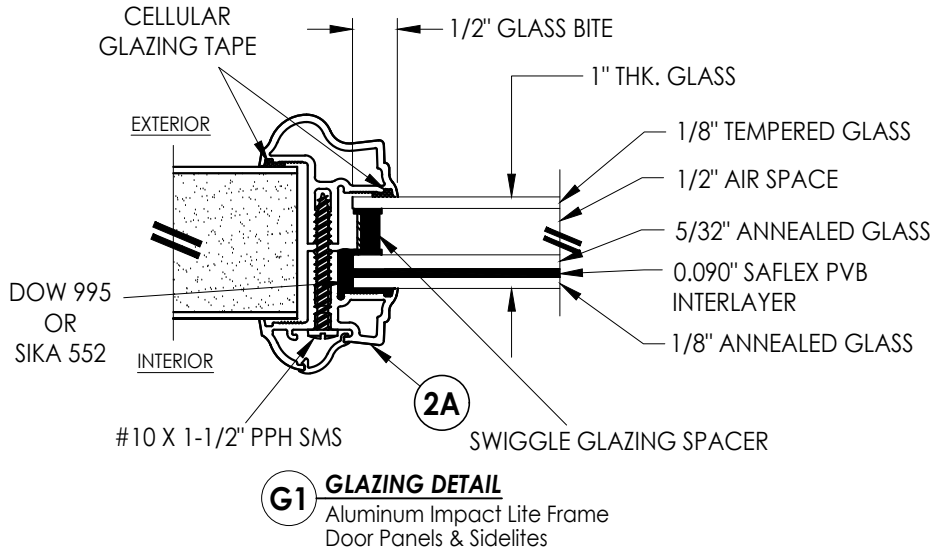
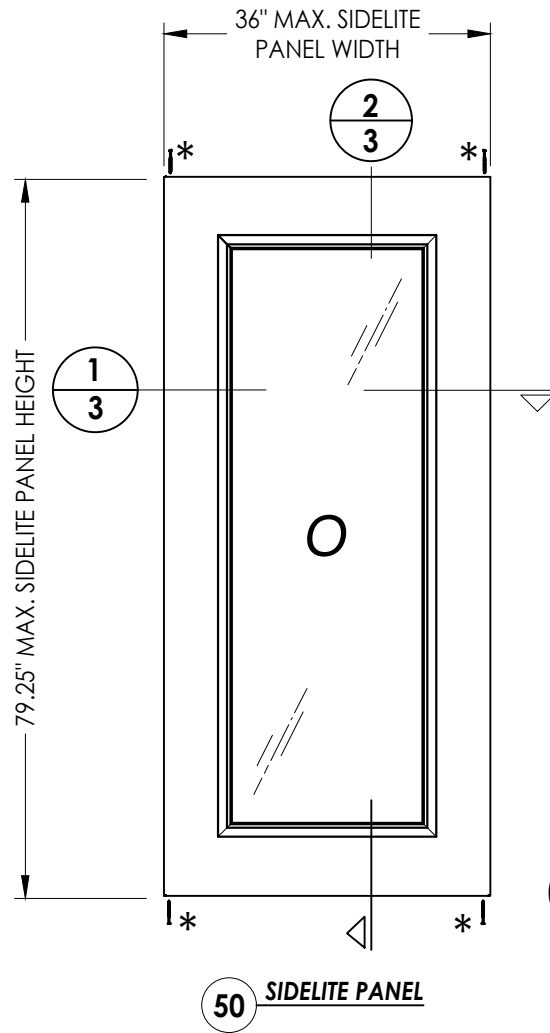
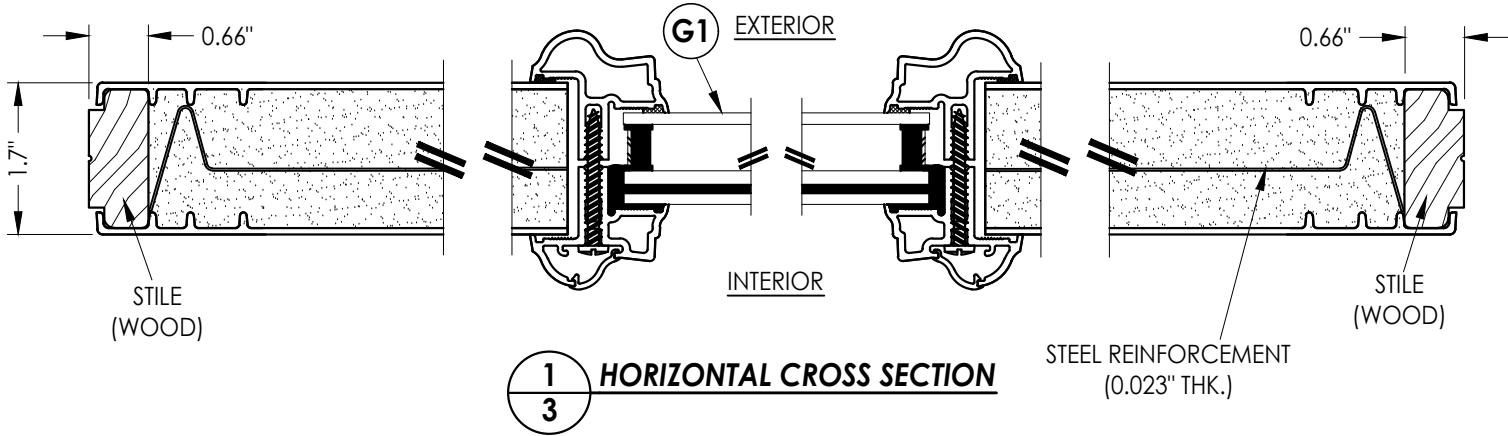
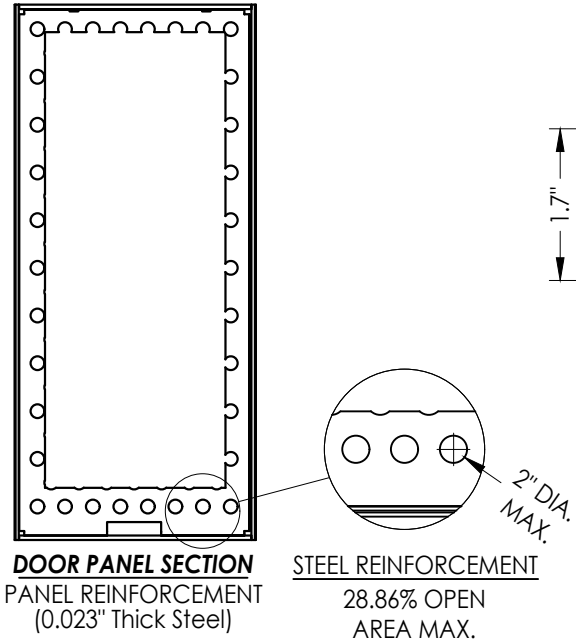
CHK. BY: LFS

DRAWING NO.:

FL-23957.3

SHEET 2 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-23957 R3\FL-23957.1-3.dwg



SIDELITE PANEL
FIBERGLASS DOOR SKIN: 0.095" MIN. THK.
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

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

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:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS		
		BY	DATE	DESCRIPTION
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.

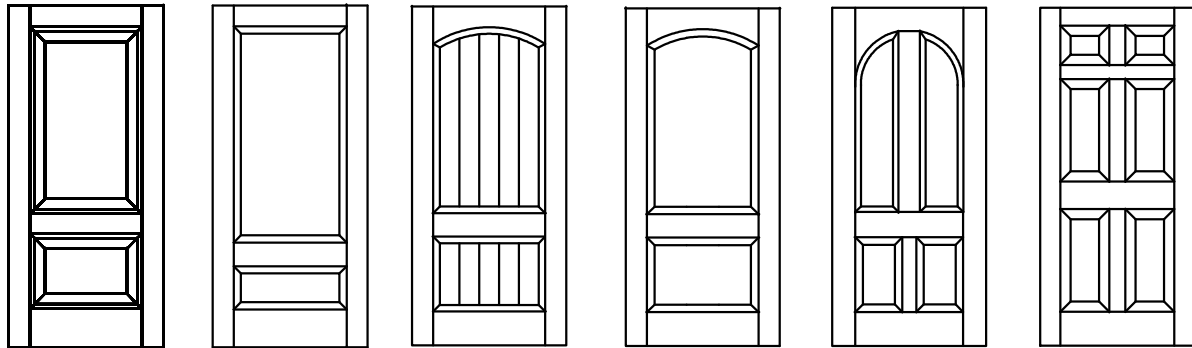
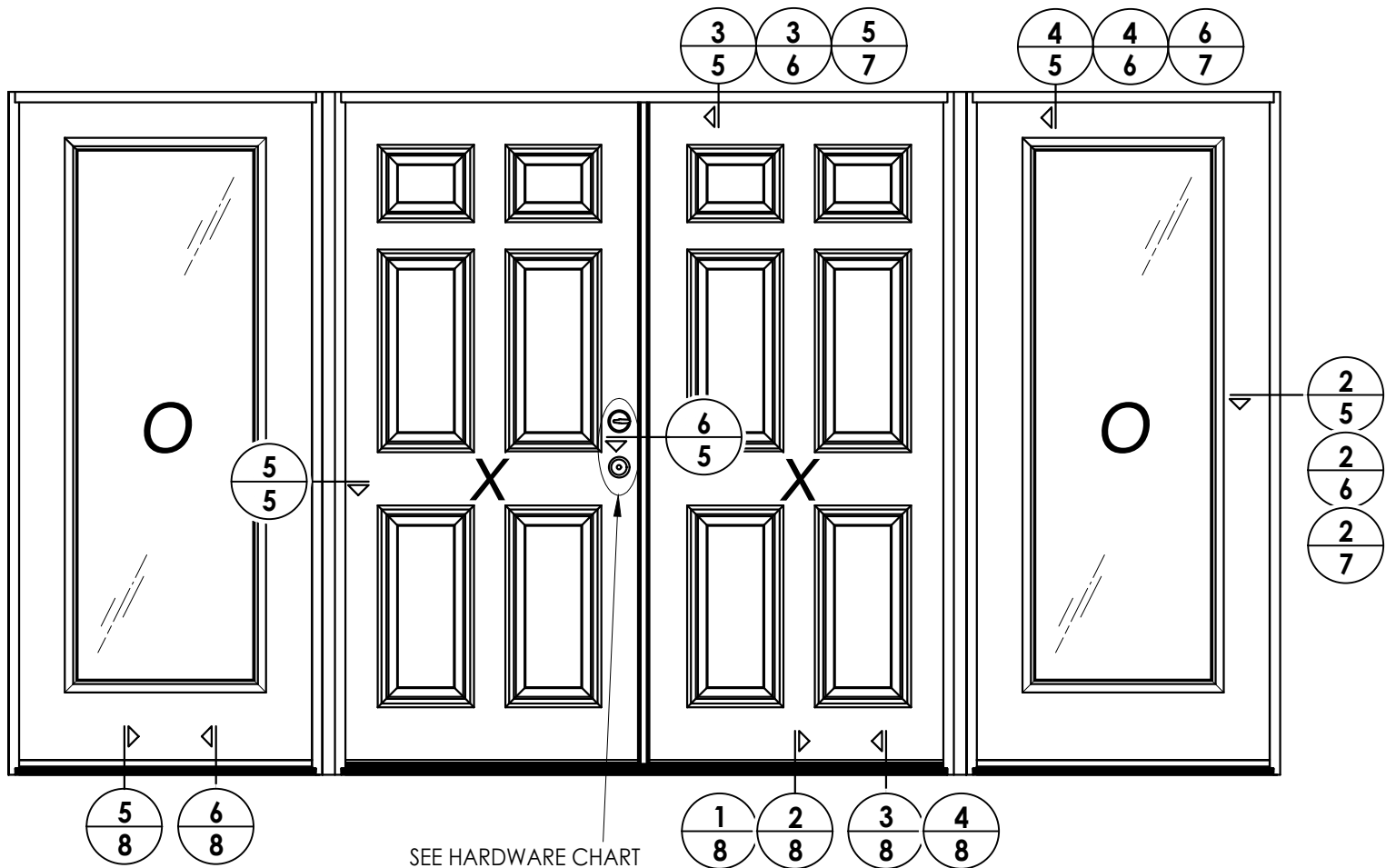
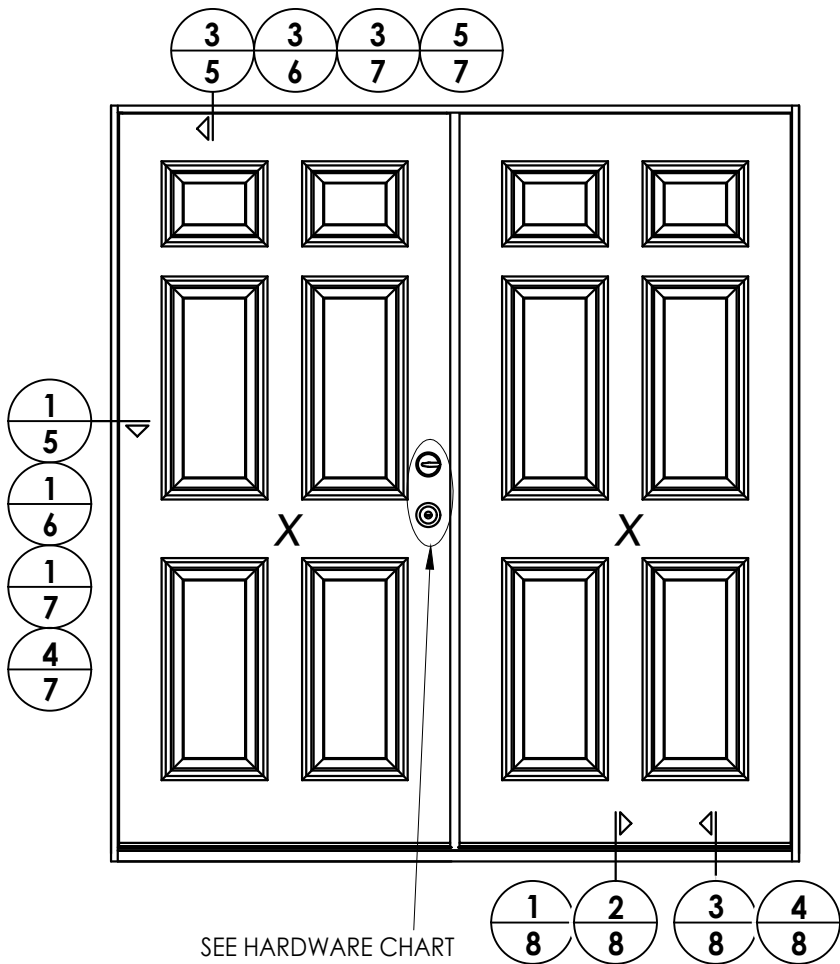
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:
FL-23957.3

SHEET 3 OF 12

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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)

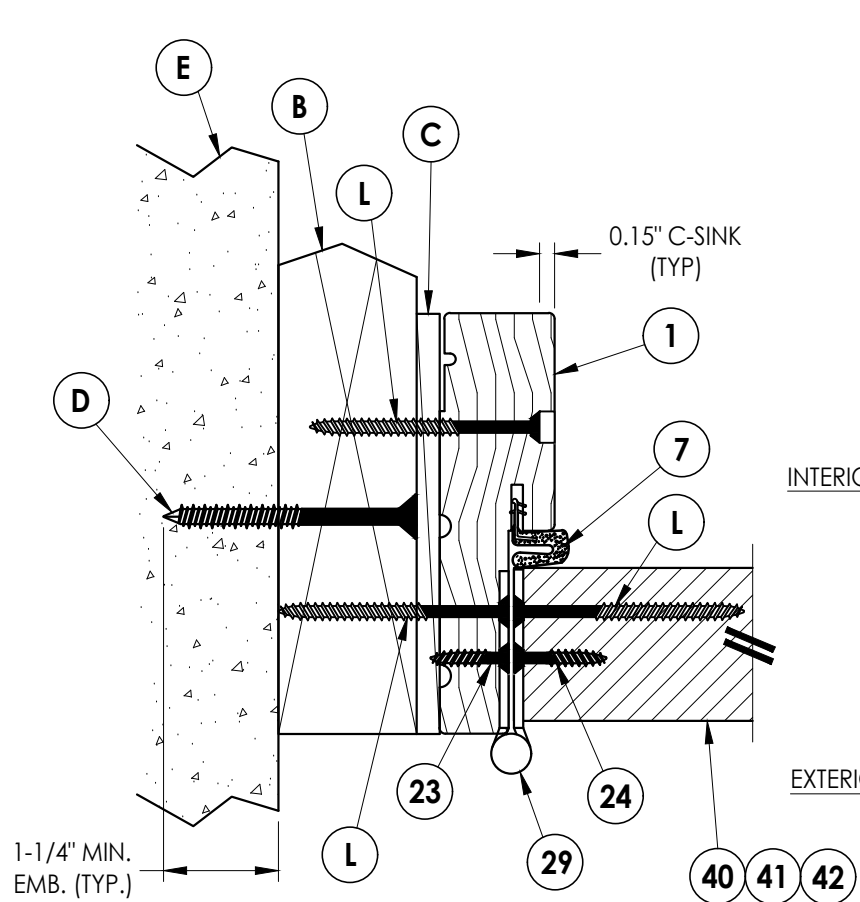
HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)

[illegible]

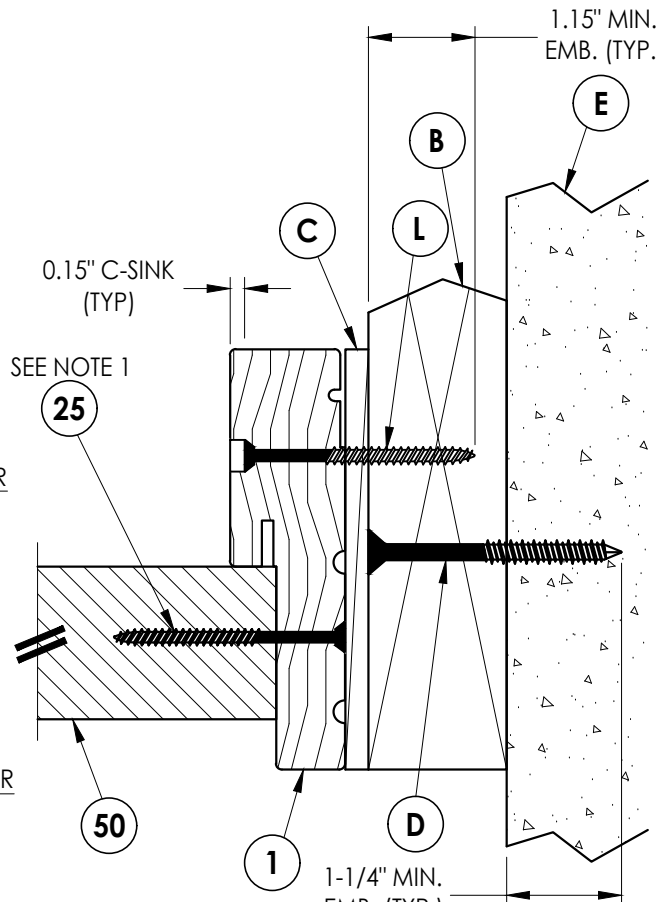
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

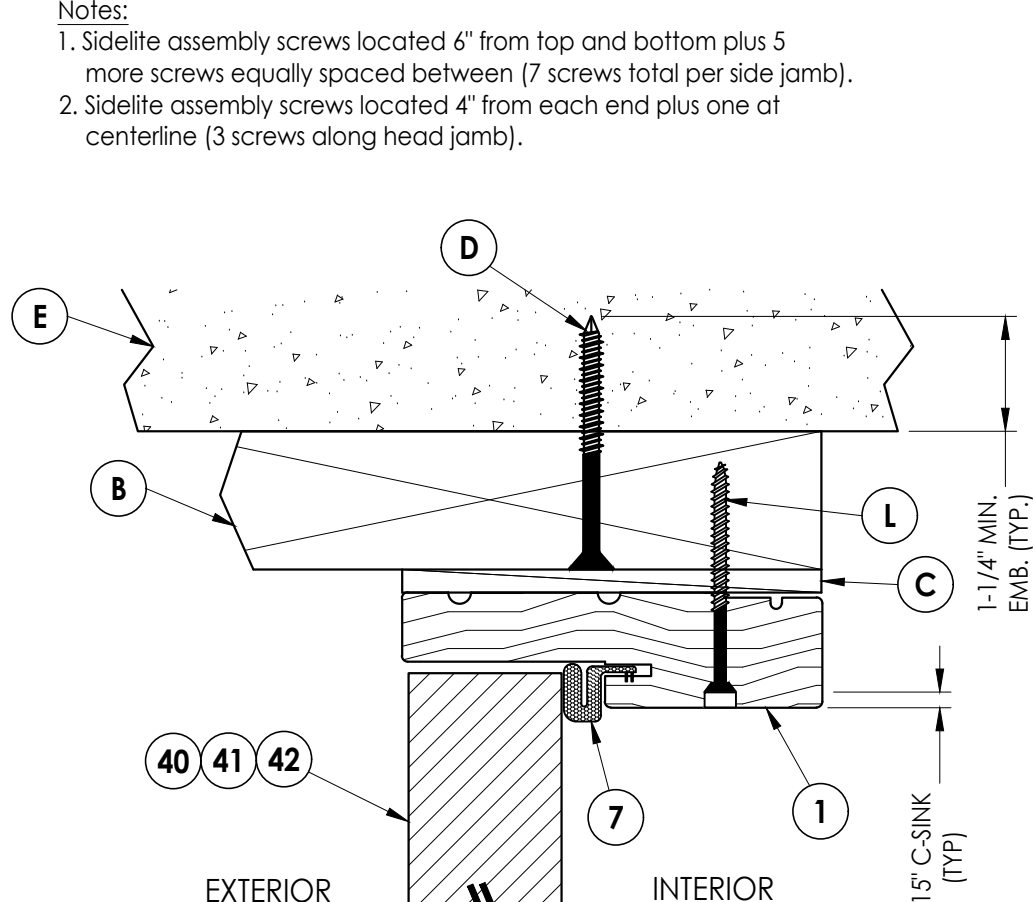
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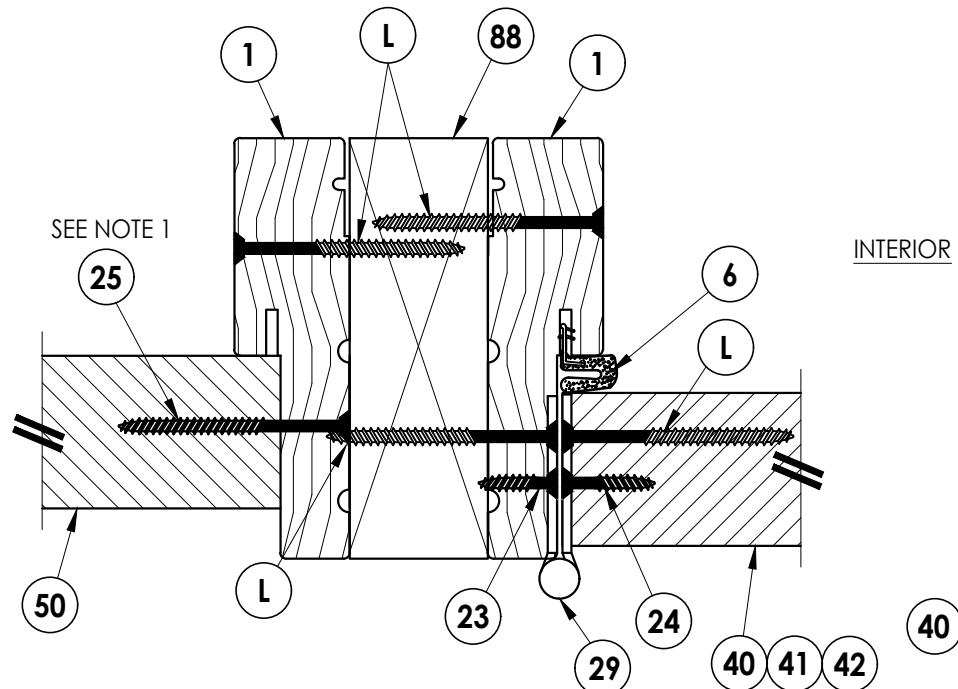
1 **HORIZONTAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



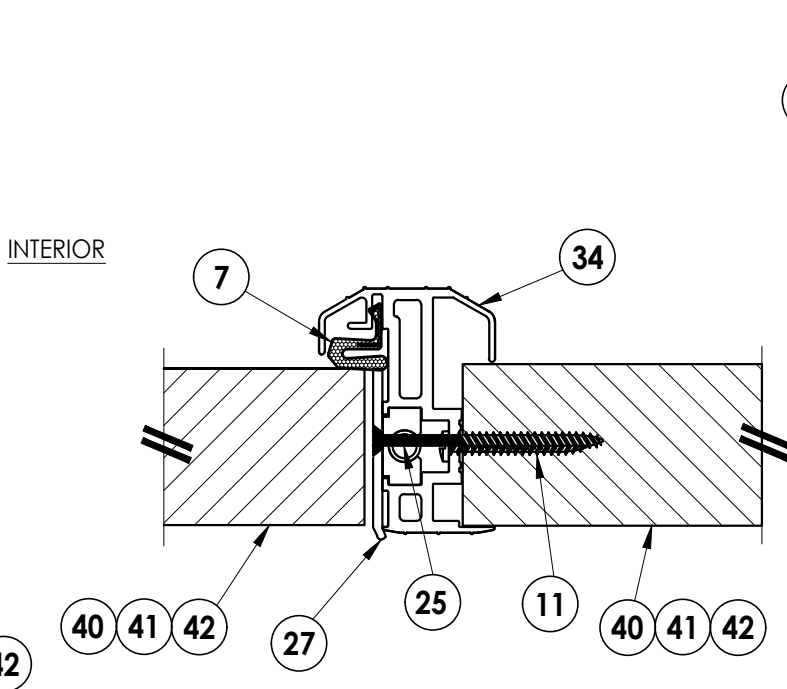
2 **HORIZONTAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



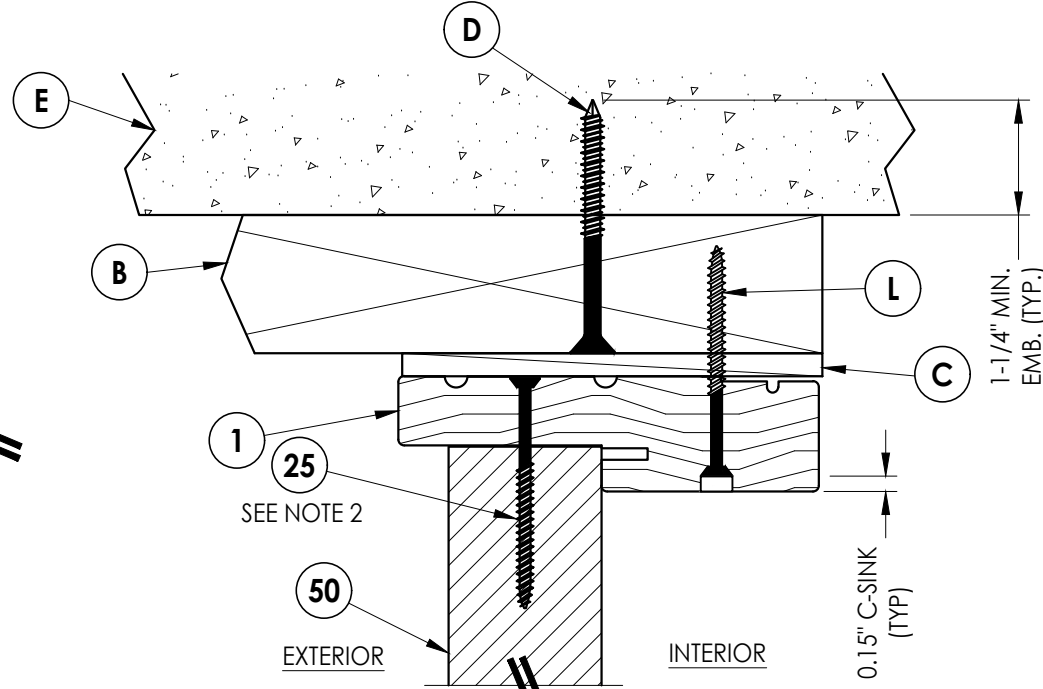
3 **VERTICAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



5 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



6 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



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

Notes:

1. Sidelite assembly screws located 6" from top and bottom plus 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end plus one at centerline (3 screws along head 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
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
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

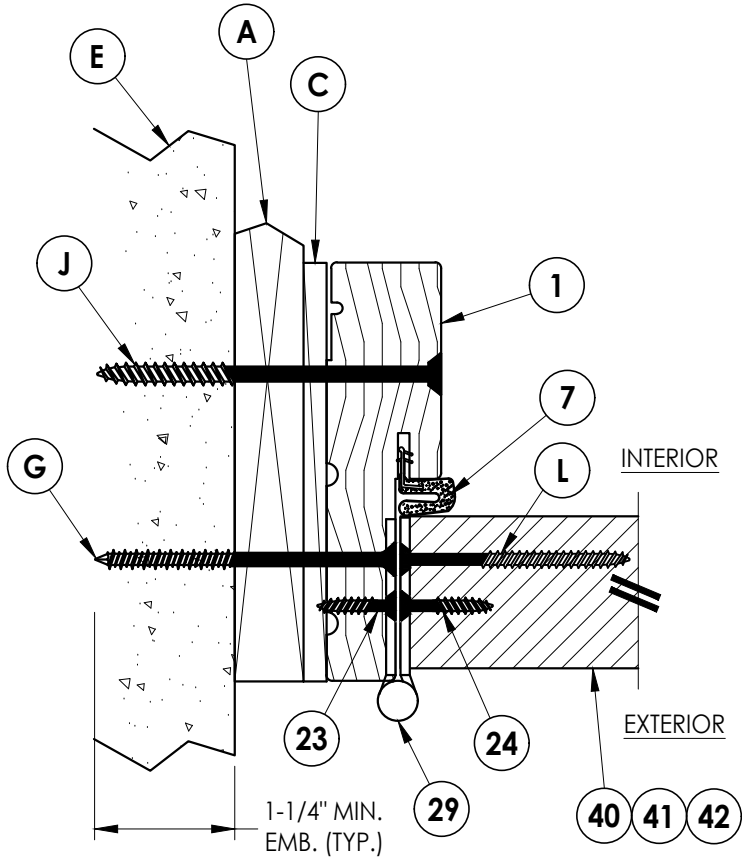
CHK. BY: LFS

DRAWING NO.: FL-23957.3

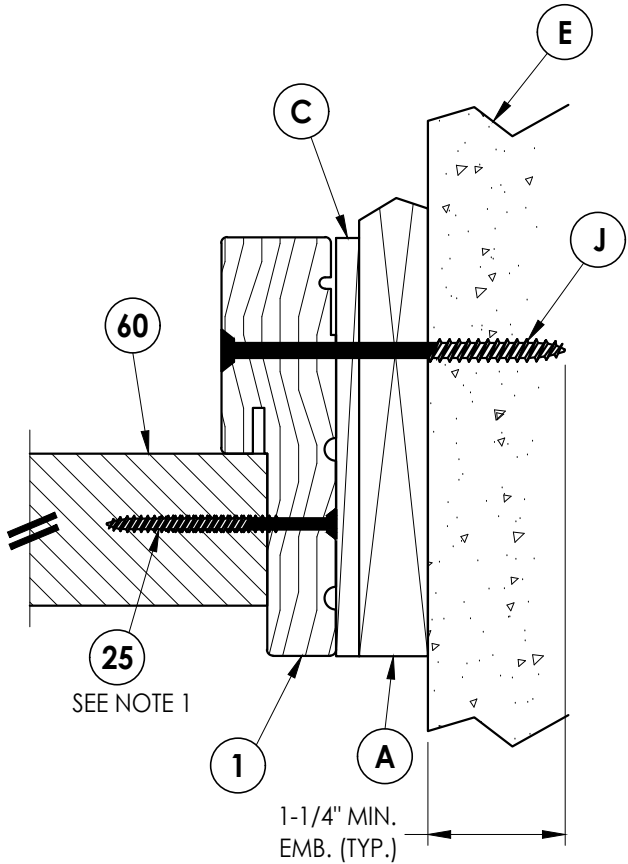
SHEET 5 OF 13

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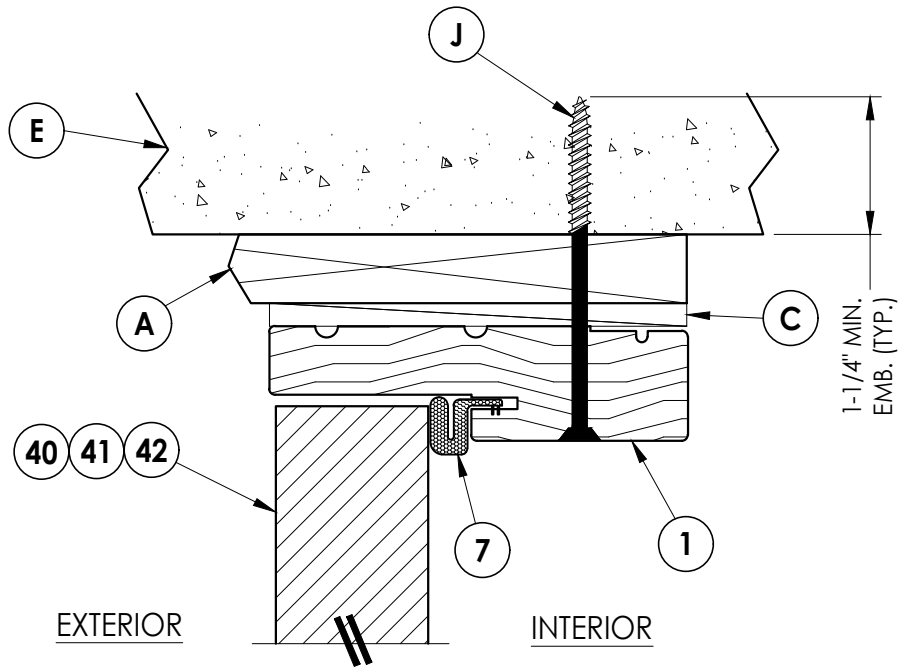
- Notes:
1. Sidelite assembly screws located 6" from top and bottom plus 5 more screws equally spaced between (7 screws total per side jamb).
 2. Sidelite assembly screws located 4" from each end plus one at centerline (3 screws along head jamb).



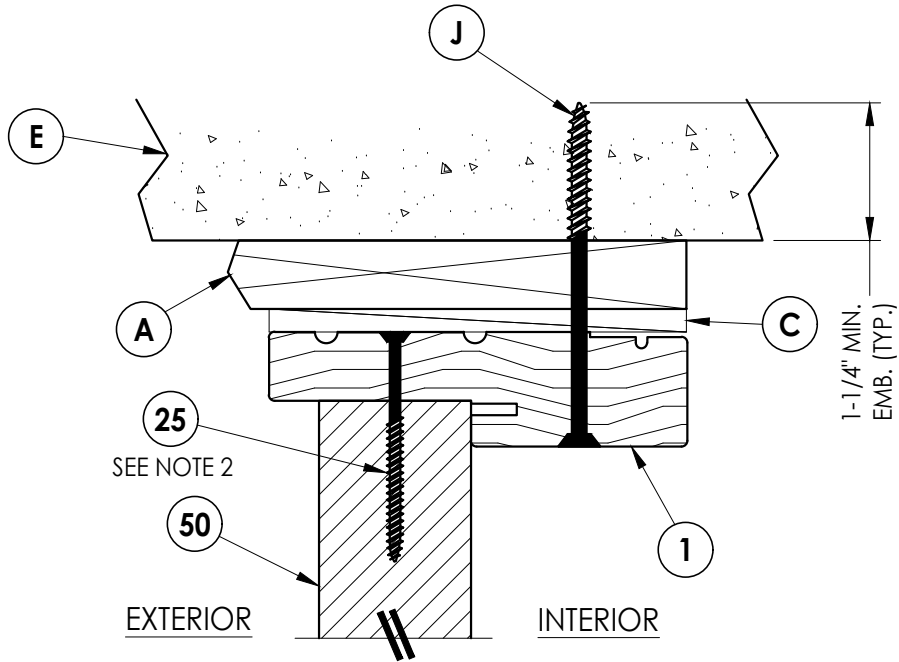
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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



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



4
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

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
CROSS SECTIONS (1X BUCK)

REVISIONS			
NO.	DATE	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.

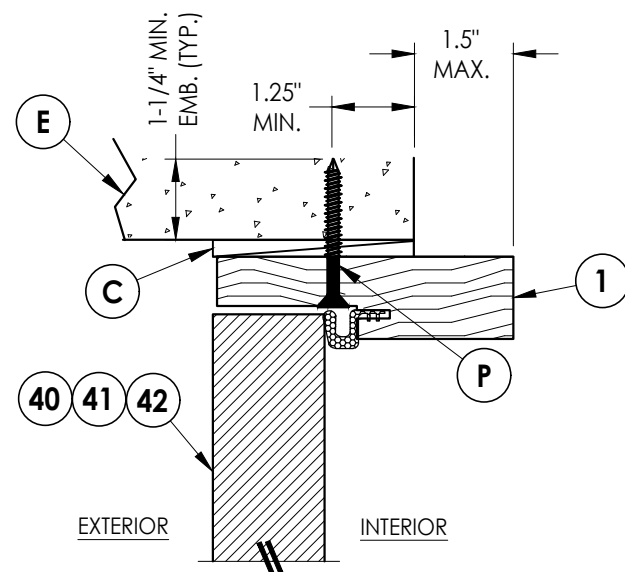
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CHK. BY: LFS

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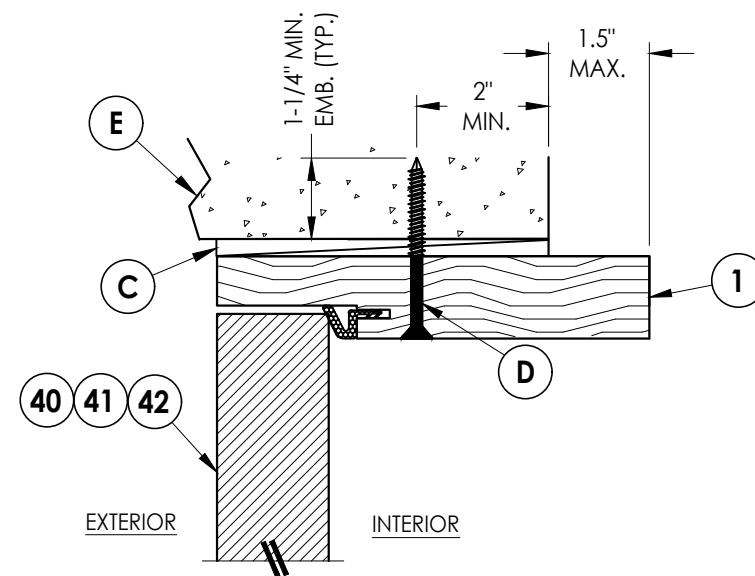
FL-23957.3

SHEET 6 OF 13

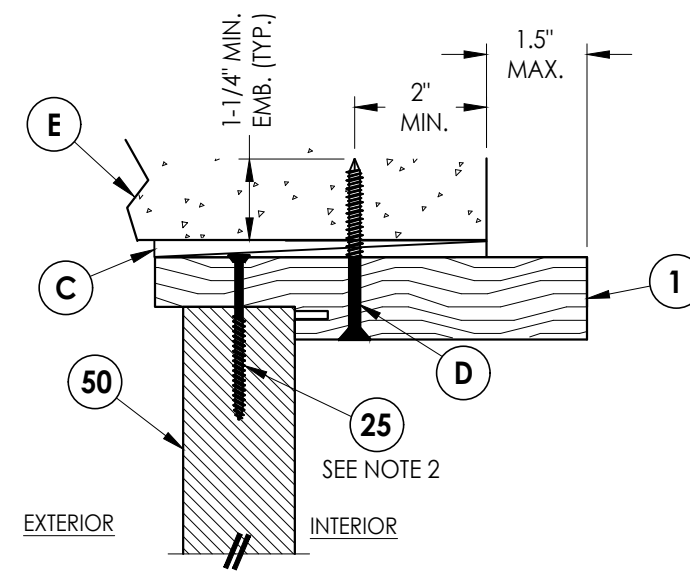


3 7 **VERTICAL CROSS SECTION**

Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb
Double Door Only (N/A w/ Sidelites)



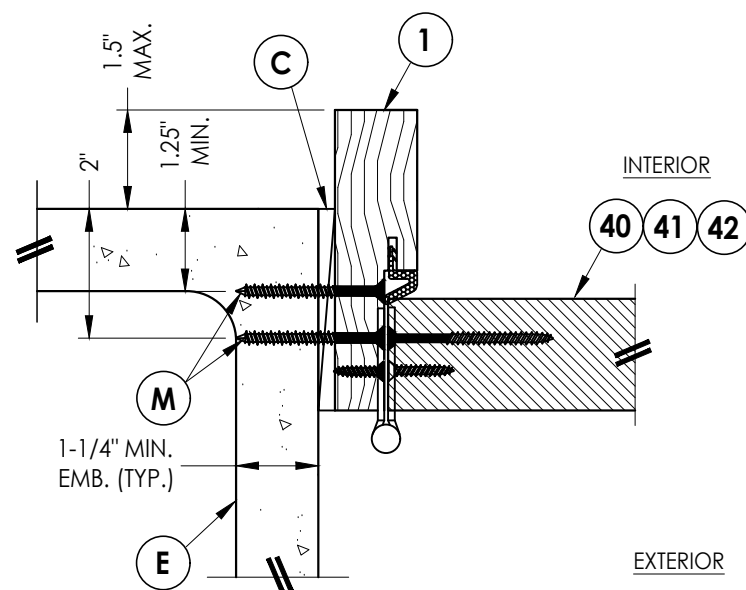
5 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



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

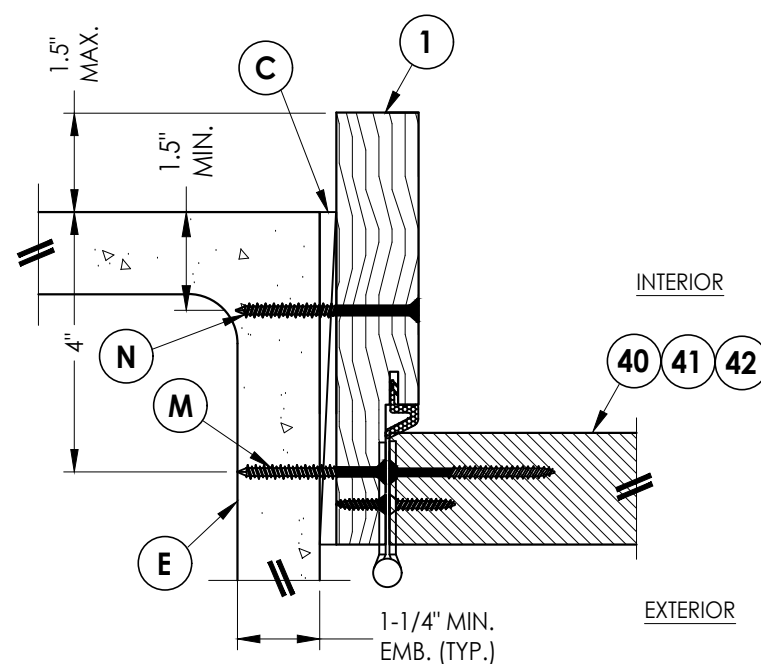
Notes:

1. Sidelite assembly screws located 6" from top and bottom plus 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end plus one at centerline (3 screws along head jamb).

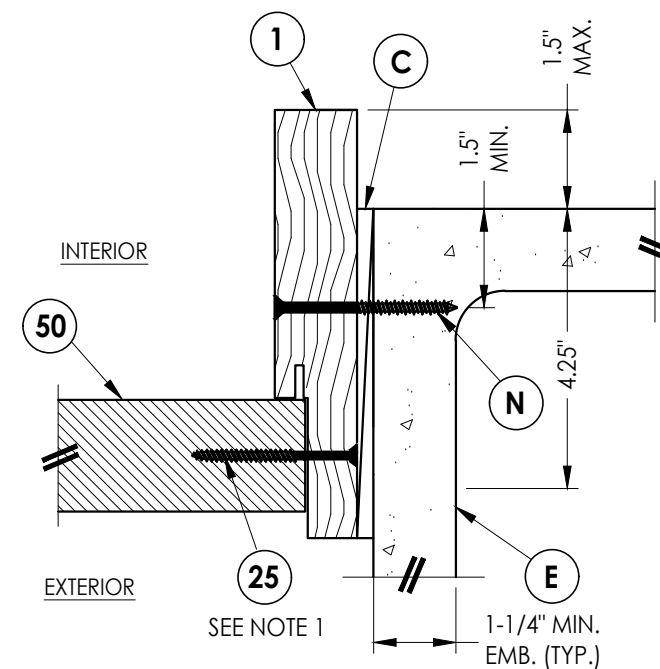


1 7 **HORIZONTAL CROSS SECTION**

Shown Direct to Masonry
Outwing only w/ 4-9/16" jamb
Double Door Only (N/A w/ Sidelites)



4 **7** **HORIZONTAL CROSS SECTION** Shown Direct to Masonry Outswing only w/ 6-9/16" jamb

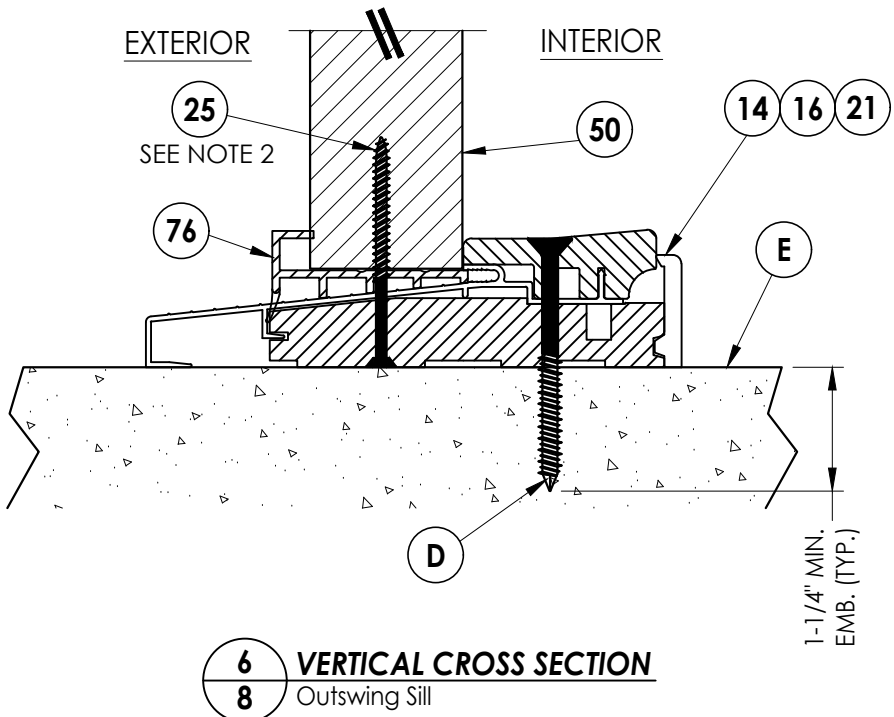
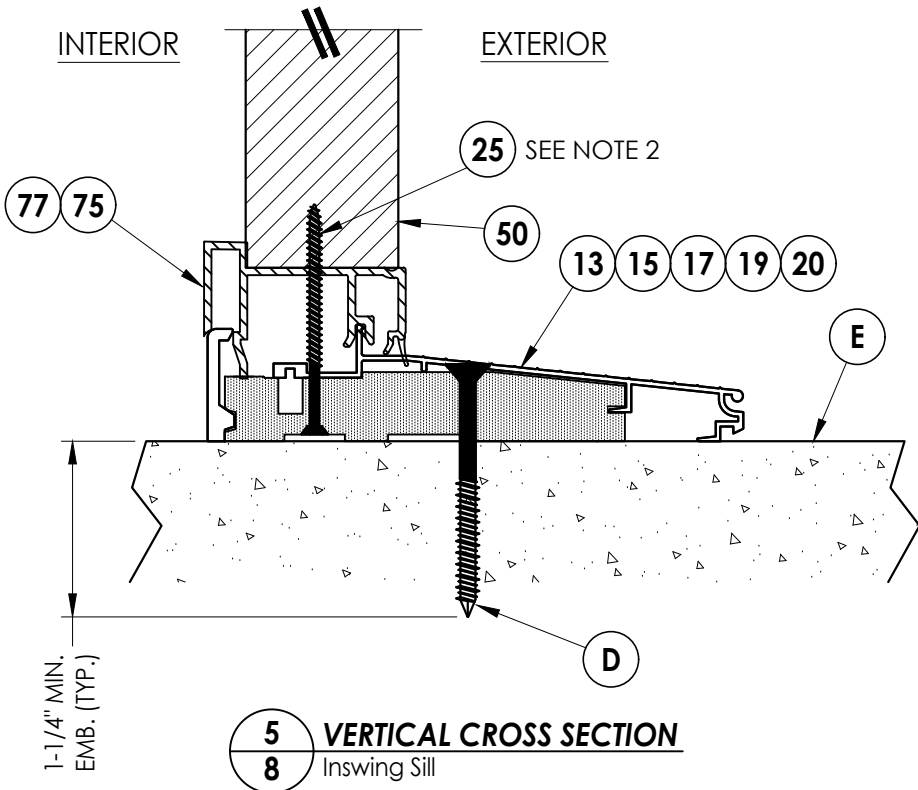
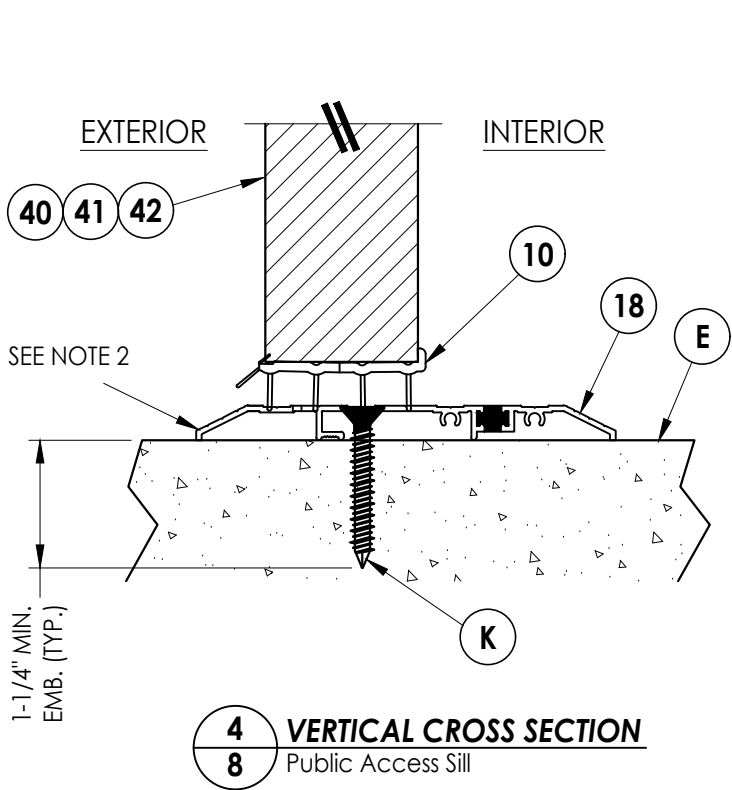
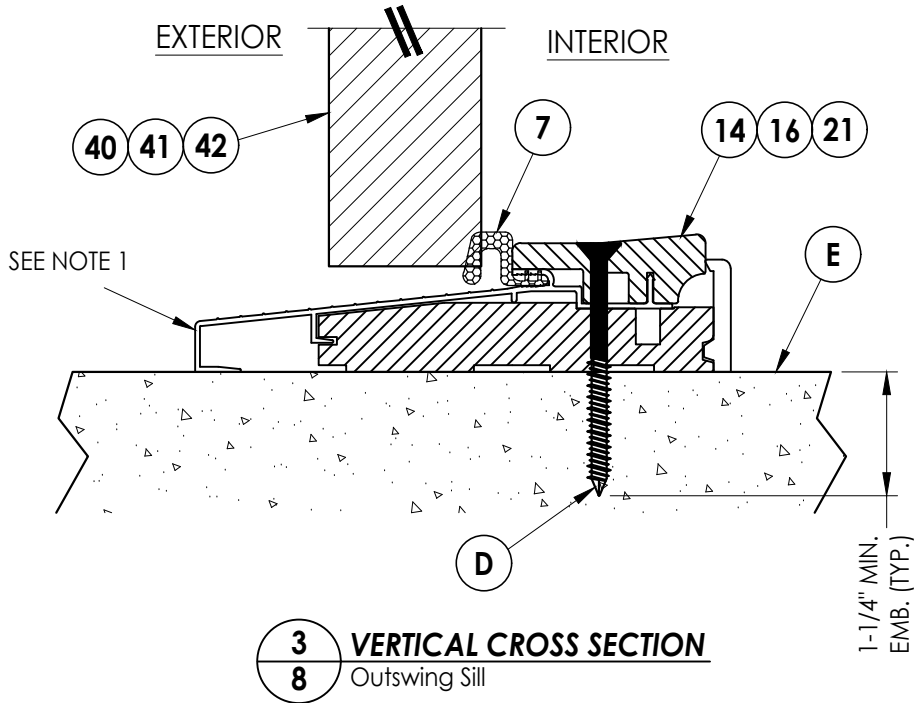
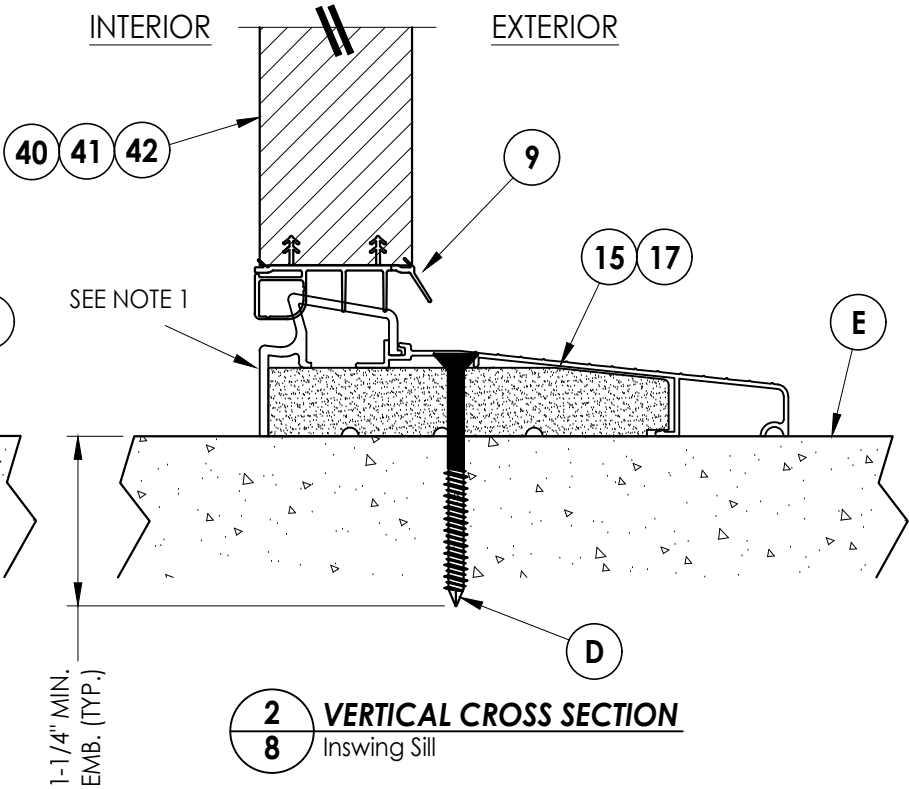
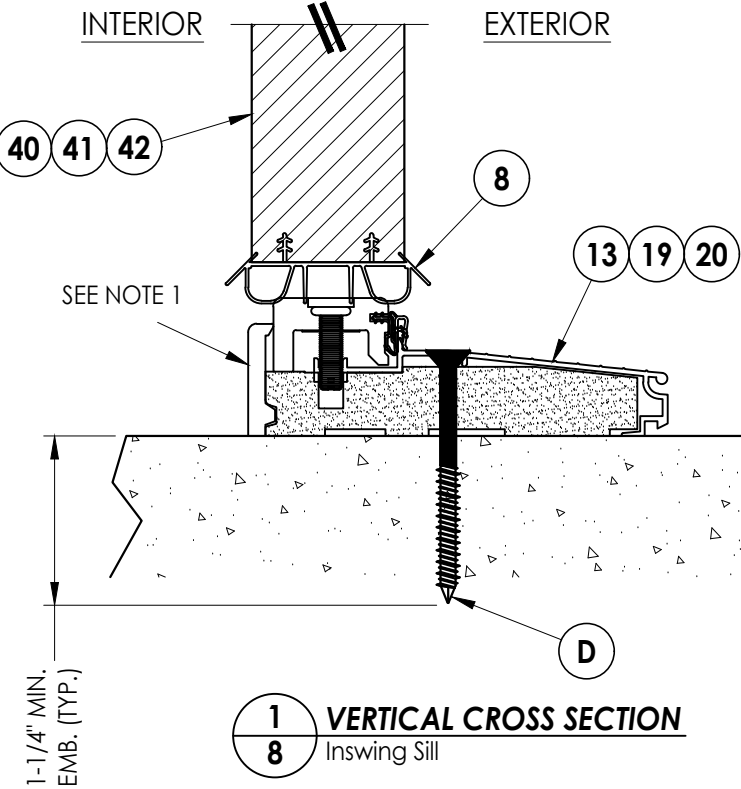


2 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409									
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- Notes:
1. Sill Item #'s 13, 16, 17, 19 & 20 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 14, 15 & 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.
2. Sidelite assembly screws located 4" from each end plus one at centerline (3 screws total along 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
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC
1	7/23/20	UPDATE TO 7TH ED (2020) FBC
LFS		
LFS		
BY		

DATE: 4/21/20

SCALE: N.T.S.

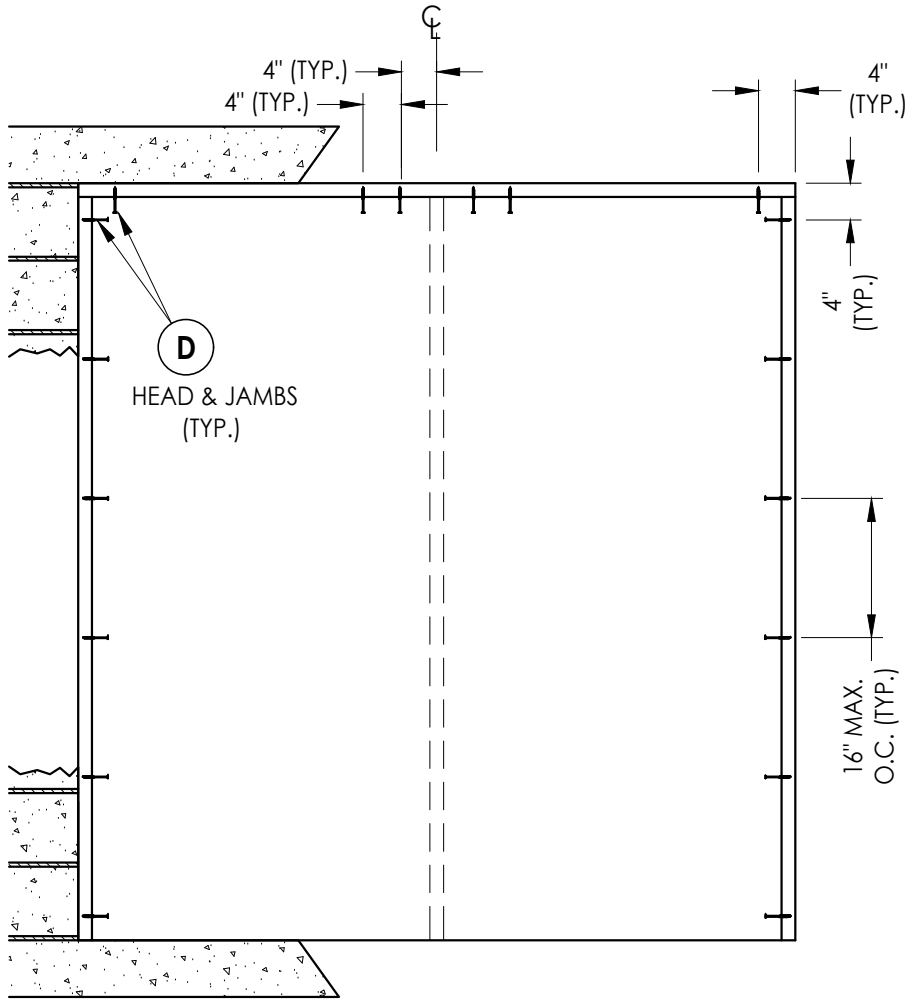
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CHK. BY: LFS

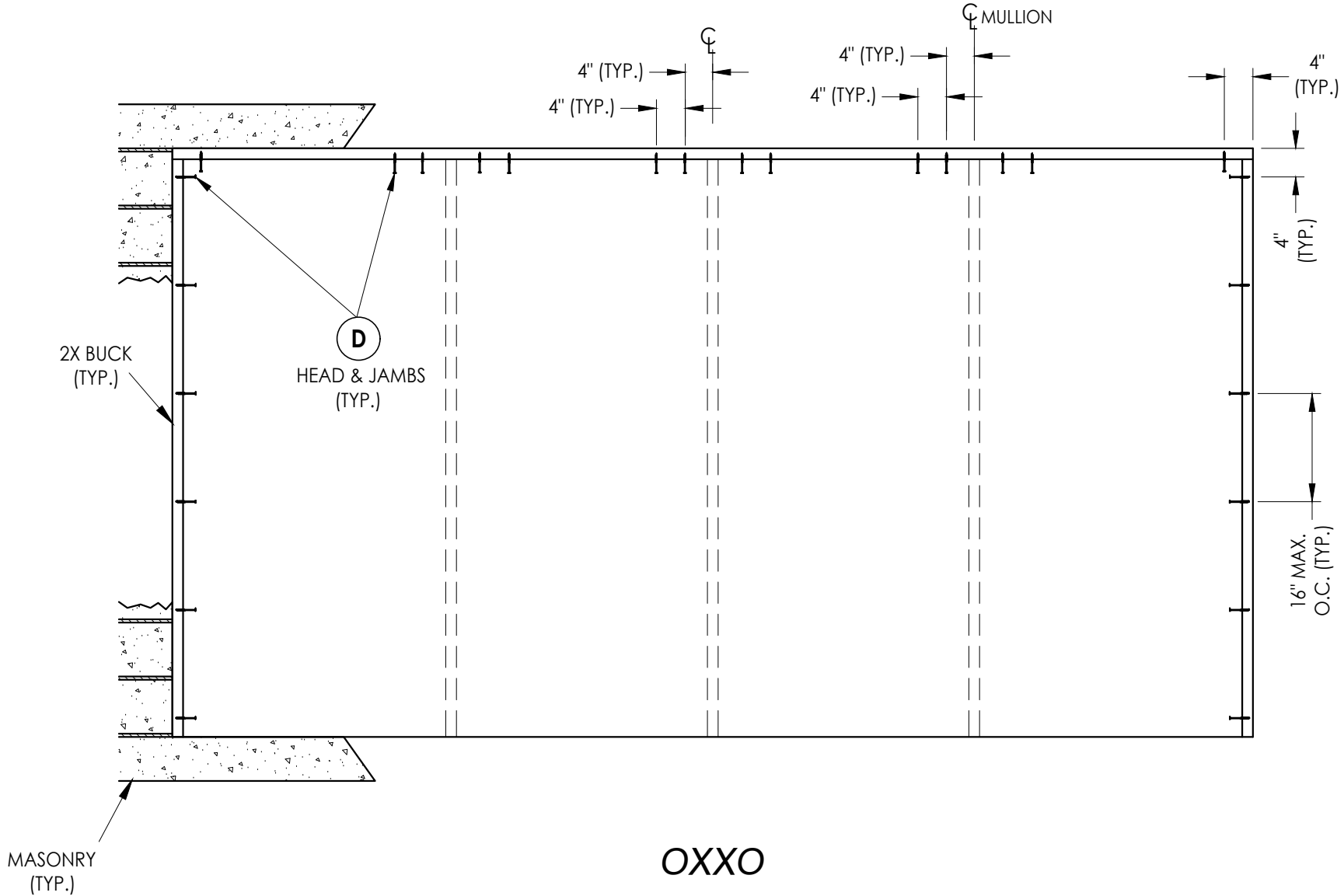
DRAWING NO.: FL-23957.3

SHEET 8 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-23957 R3\FL-23957.1-3.dwg



XX



MASONRY
(TYP.)

OXXO

2X BUCK ANCHORING

DATE: 4/21/20

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-23957.3

SHEET 9 OF 13

PRODUCT:

THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

BUCK ANCHORING

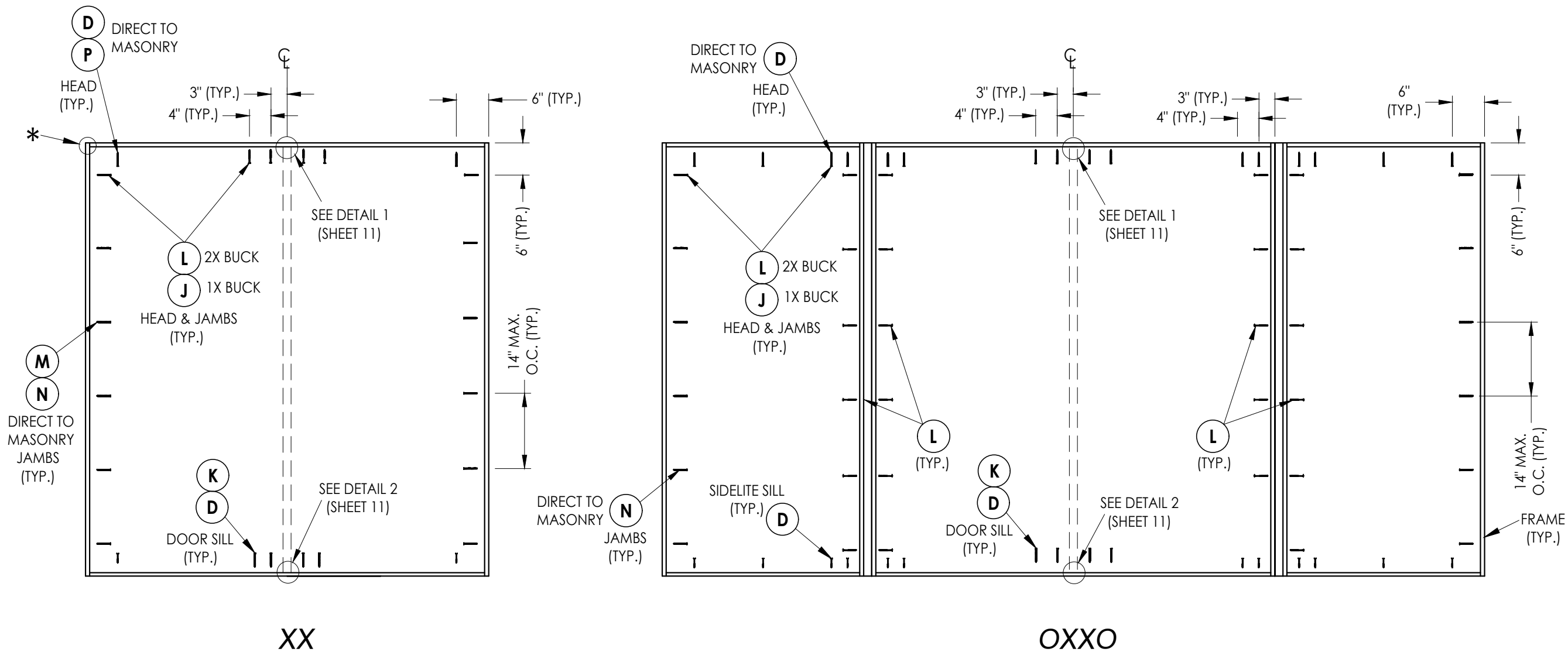
NO	DATE	REVISIONS
2	7/24/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/23/20	UPDATE TO 7TH ED (2020) FBC LFS
		BY

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

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

Z:\2023 FBC Drawings\Therma-Tru\FL-23957 R3\FL-23957.1-3.dwg

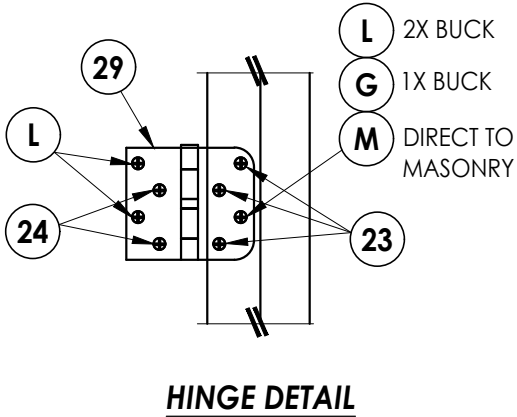
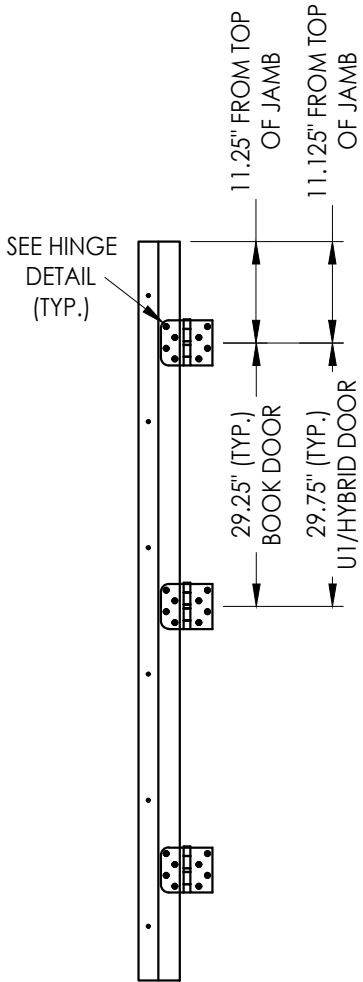
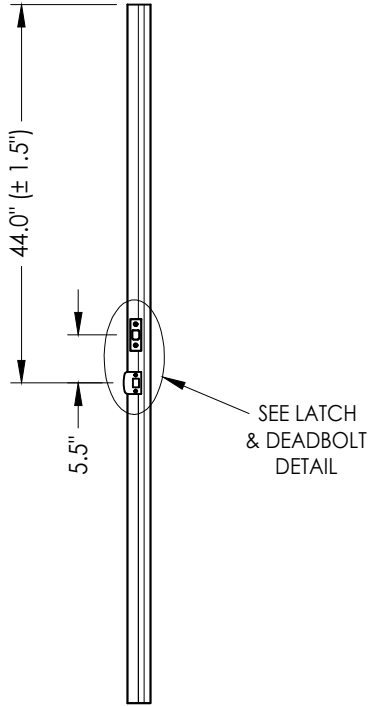
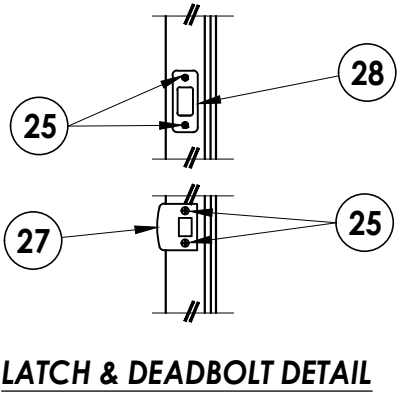
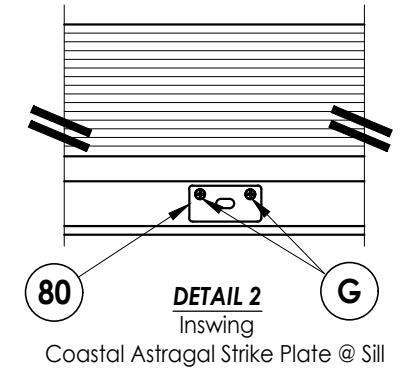
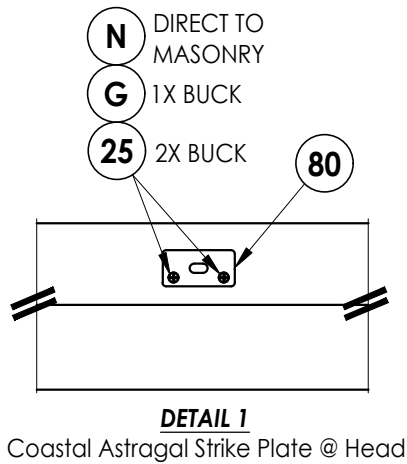
* NOTE: FRAME CORNERS @ HEAD ATTACHED TOGETHER w/ (3) #8 X 2-1/2" PFH WS (TYP.)



FRAME ANCHORING

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				R.W. 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: FRAME ANCHORING					
				LFS	FBC	(2023)	UPDATE TO 8TH ED.
				LFS	FBC	(2020)	UPDATE TO 7TH ED.
				BY		NO.	DATE
				REVISIONS			
DATE: 4/21/20							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-23957.3							
SHEET 10 OF 13							

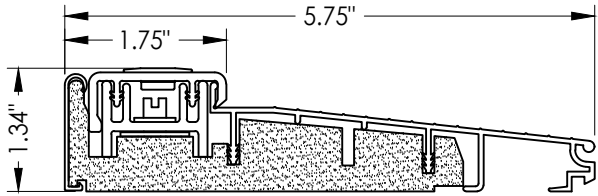
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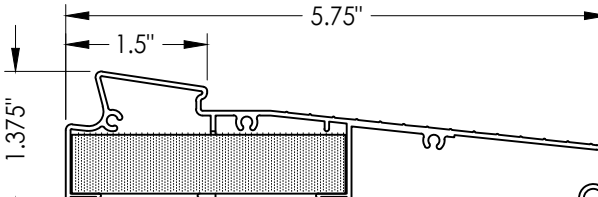
LATCH & DEADBOLT STRIKE DETAILS

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: HARDWARE DETAILS					
				LFS			
				FBC			
				UPDATE TO 8TH ED. (2023)			
				FBC			
				UPDATE TO 7TH ED (2020)			
				FBC			
				NO.	DATE		
				BY			
				REVISIONS			
DATE: 04/21/20							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-23957.3							
SHEET 11 OF 13							

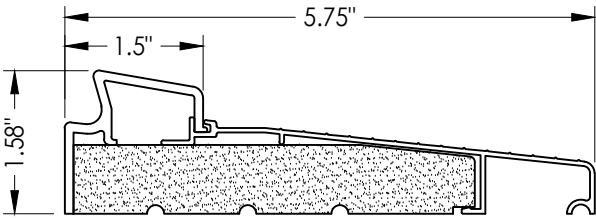
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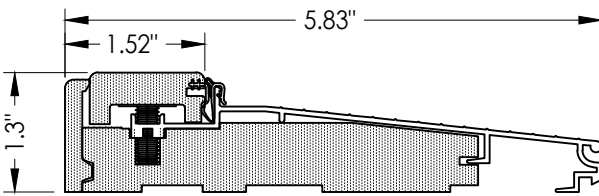
13 **INSWING THRESHOLD**
Adjustable



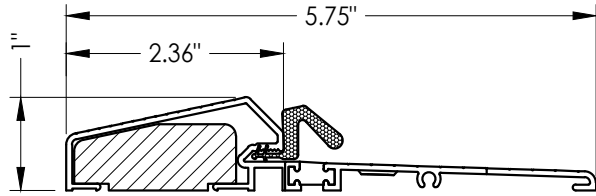
15 **INSWING THRESHOLD**
Moderate Climate



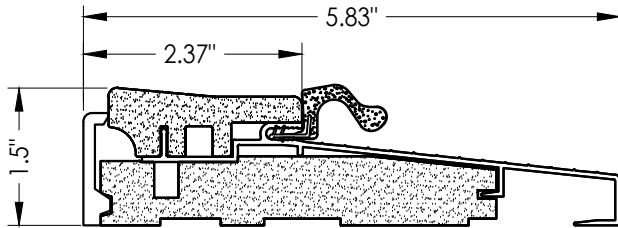
17 **INSWING THRESHOLD**
Basic Fixed



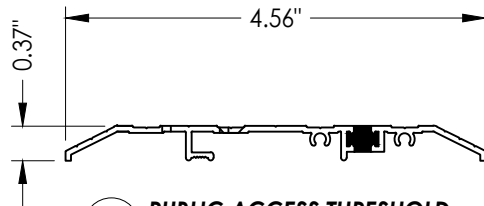
19 **INSWING THRESHOLD**
Adjustable



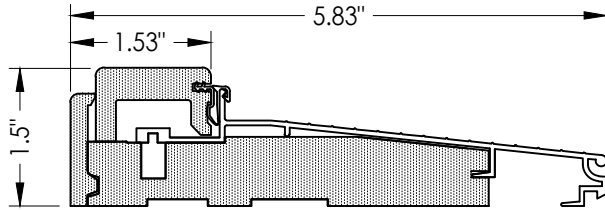
14 **OUTSWING THRESHOLD**



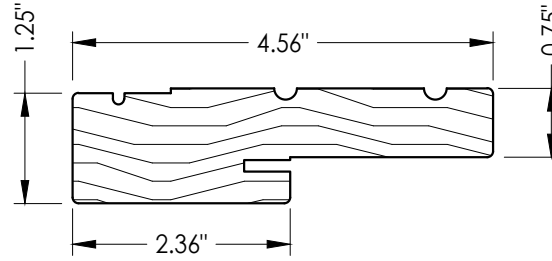
16 **OUTSWING THRESHOLD**



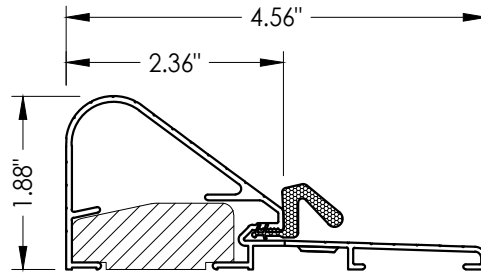
18 **PUBLIC ACCESS THRESHOLD**



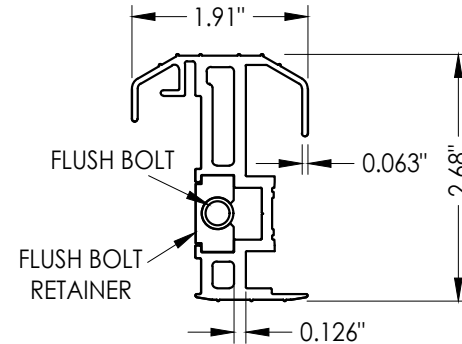
20 **INSWING THRESHOLD**
Adjustable



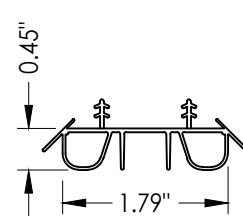
1 **WOOD JAMB**



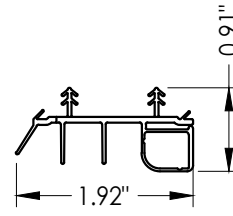
21 **OUTSWING THRESHOLD**
Coastal



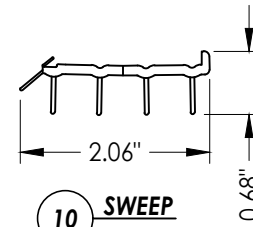
34 **COASTAL ALUMINUM ASTRAGAL**



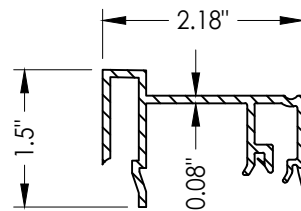
8 **SWEEP**



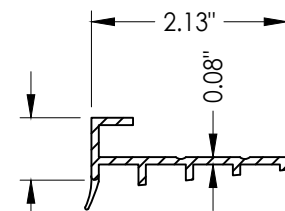
9 **SWEEP**



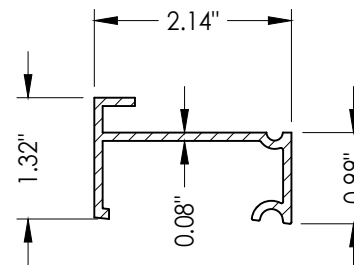
10 **SWEEP**



75 **SIDELITE SPACER**
Inswing



76 **SIDELITE SPACER**
Outswing



77 **INSWING SIDELITE**
Adapter
Moderate Climate 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:

COMPONENTS

NO.	DATE	REVISIONS		
		BY	LFS	FBC
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-23957.3

SHEET 12 OF 13

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
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
K	1/4" X 1-3/4" 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
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
15	INSWING 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
34	COASTAL ALUMINUM ASTRAGAL	ALUM
40	DOOR PANEL (BOOK DOOR)	-
41	DOOR PANEL (HYBRID DOOR)	-
42	DOOR PANEL (U1 DOOR)	-
50	14" SIDELITE PANEL	-
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC
77	SIDELITE SPACER (INSWING) - Moderate Climate Sill	PVC
80	COASTAL ASTRAGAL STRIKE PLATE	STEEL
88	2X MULLION (SG >= 0.55)	WOOD

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 ULTRA CON+®	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.

DATE: 4/21/20		REVISIONS	
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-23957.3			
SHEET 13 OF 13			
2	7/24/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/23/20	UPDATE TO 7TH ED (2020)	FBC
NO.	DATE		BY
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS	
Documents Prepared By:		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
Lyndon F. Schmidt P.E. No. 43409		