



Fiber-Classic® & Smooth-Star®

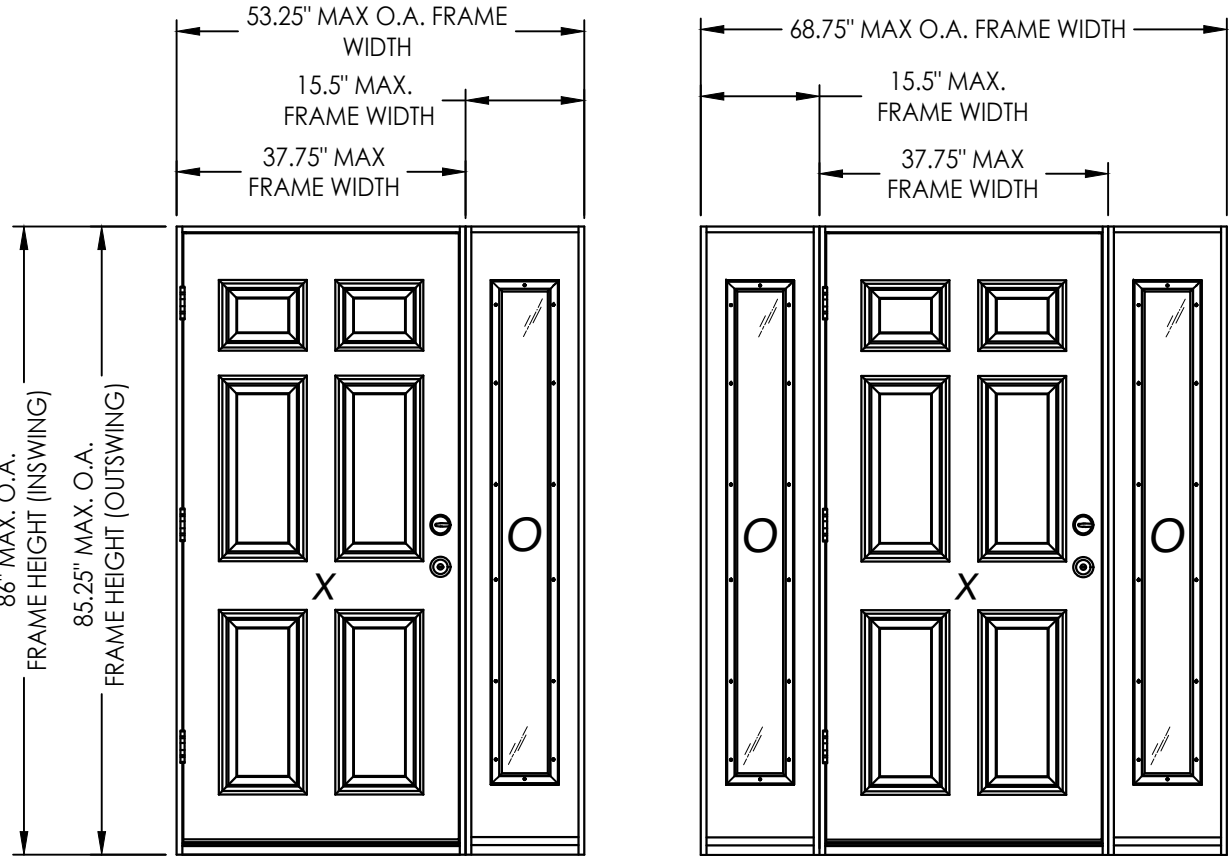
WOOD EDGE
OPAQUE FIBERGLASS SINGLE DOOR
w/ SIDELITE(S)

INSWING/OUTSWING
"NON-IMPACT"

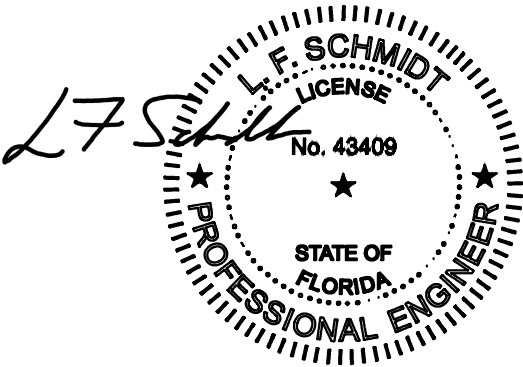
GENERAL NOTES

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. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2 as follows: Wind Zones 1, 2 & 3: Glazed Sidelites only; Wind Zone 4: Entire System.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Fiber-Classic & Smooth-Star Door and Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

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SHEET #	DESCRIPTION
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2	Door Panel Details
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6	Horizontal & Vertical Cross Sections (1X Buck)
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CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+45.0	-50.0	+45.0	-45.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.23 16:54:06 -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

4

8/23/23

UPDATE TO 8TH ED. (2023)

FBC

LFS

PO

3

7/16/20

UPDATE TO 7th ED (2020)

FBC

MT

JK

2

10/10/18

REV. DOOR PANEL OPTION NOTE

RECESSED PANEL NOTATION

NO

DATE

1

11/15/17

RECESSED PANEL NOTATION

BY

REVISIONS

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21133.5

SHEET 1 OF 14

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

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Technical drawings of the door cross-section showing exterior and interior views with dimensions and material labels.

Left View (Exterior):

- Overall width: 1.105"
- Overall height: 1.7"
- Component: HINGE STILE (ENG. WOOD)

Right View (Interior):

- Overall width: 2.375" + 1.105"
- Component: LOCK BLOCK 12.5" LONG (WOOD)
- Component: LATCH STILE (ENG. WOOD)

The image contains two technical drawings of door panels, labeled 1 and 2, showing dimensions and component locations.

Panel 1 (Left):

- Dimensions:**
 - Overall Width: 36.0" MAX. DOOR PANEL WIDTH
 - Overall Height: 83.25" MAX. DOOR HEIGHT
 - Panel Height: 48"
 - Panel Width: 35.813" MAX. DOOR PANEL WIDTH
 - Panel Depth: 5.5"
- Components:**
 - Top Panel: 3x2 (Three horizontal panels, two vertical panels)
 - Bottom Panel: 1x2 (One horizontal panel, two vertical panels)
 - Door Handle: Located on the right side of the panel.
 - Lock: Located on the right side of the panel.

Panel 2 (Right):

- Dimensions:**
 - Overall Width: 36.0" MAX. DOOR PANEL WIDTH
 - Overall Height: 83.25" MAX. DOOR HEIGHT
 - Panel Height: 48"
 - Panel Width: 35.813" MAX. DOOR PANEL WIDTH
 - Panel Depth: 5.5"
- Components:**
 - Top Panel: 2x2 (Two horizontal panels, two vertical panels)
 - Bottom Panel: 1x2 (One horizontal panel, two vertical panels)
 - Door Handle: Located on the right side of the panel.
 - Lock: Located on the right side of the panel.

35.813" MAX.
DOOR
PANEL WIDTH

83.25" MAX. DOOR HEIGHT

48"

5.5"

3
2

2
2

X

1

2

0.89"

TOP RAIL (COMPOSITE)

FOAM CORE (POLYURETHANE - 1.9 PCF MIN.)

0.89"

INTERIOR

EXTERIOR

INTERIOR

EXTERIOR

0.78"

FIBERGLASS SKIN (0.073" THK.)

0.76"

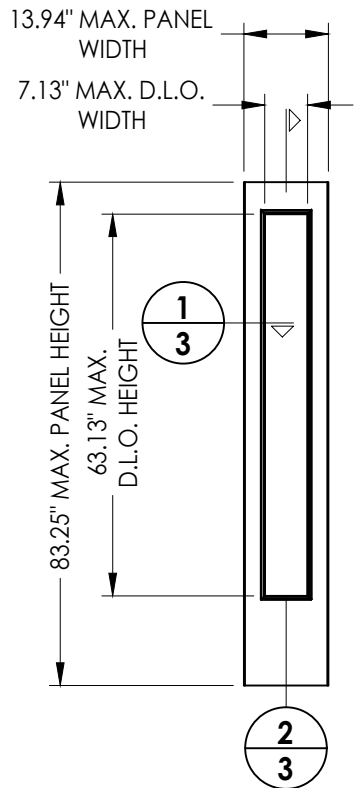
BOTTOM RAIL (COMP.)

4 VERTICAL CROSS SECTION
2

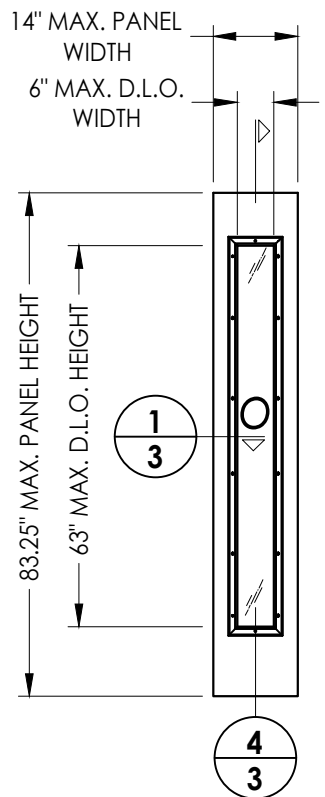
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4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC	P0	
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	MT	
2	10/10/18	REV. DOOR PANEL OPTION	NOTE	JK	
1	11/15/17	RECESSED PANEL NOTATION		BY	
NO.	DATE				REVISIONS
DATE: 07/07/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-21133.5					
SHEET 2 OF 14					

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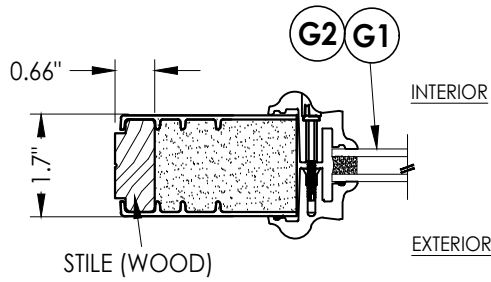
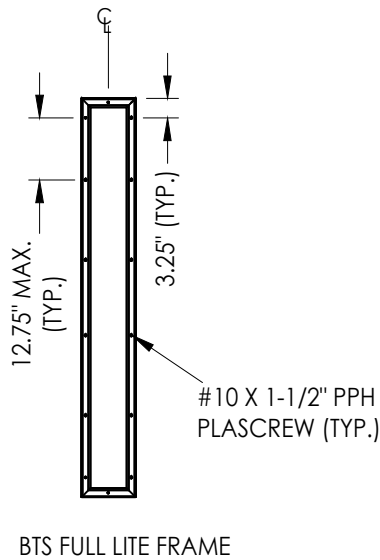
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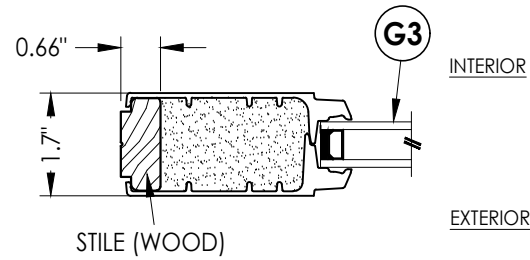
60 **SIDELITE PANEL**
Full Lite
Flush Glazed



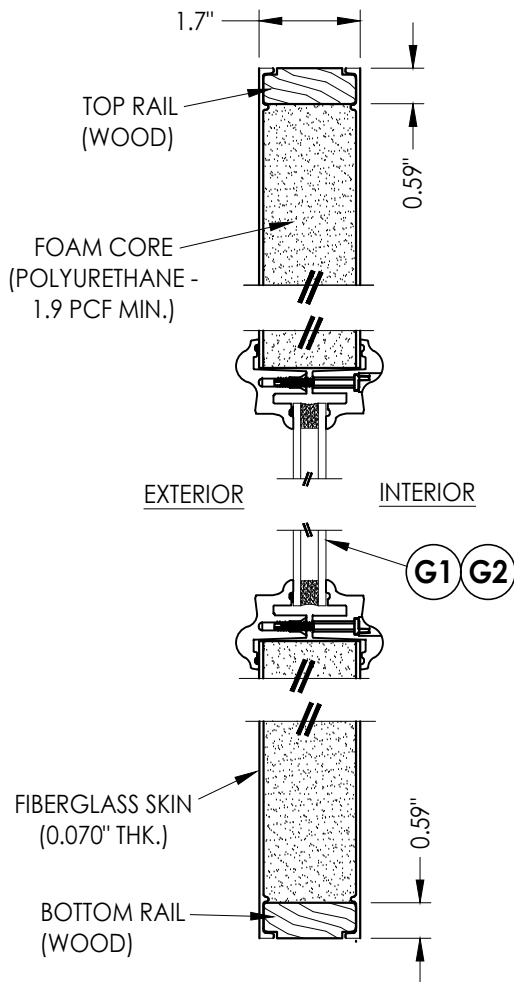
50 **SIDELITE PANEL**
Full Lite
Lip Lite



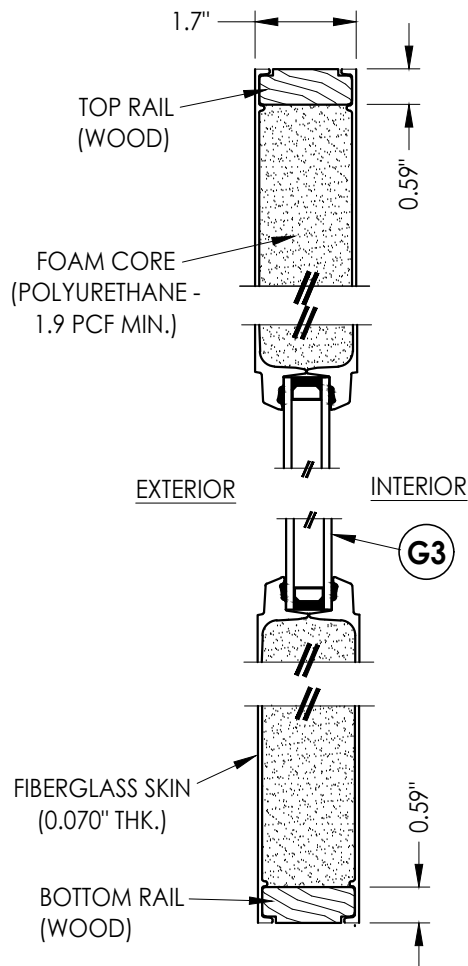
1/3 **HORIZONTAL CROSS SECTION**
Lip Lite Glazing



2/3 **HORIZONTAL CROSS SECTION**
Flush Glazing



3/3 **VERTICAL CROSS SECTION**
Lip Lite Glazing Shown



4/3 **VERTICAL CROSS SECTION**
Flush Glazing Shown

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:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
4	8/23/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020) FBC PO
2	10/10/18	REV. DOOR PANEL OPTION NOTE MT
1	11/15/17	RECESSED PANEL NOTATION JK

DATE: 07/07/17

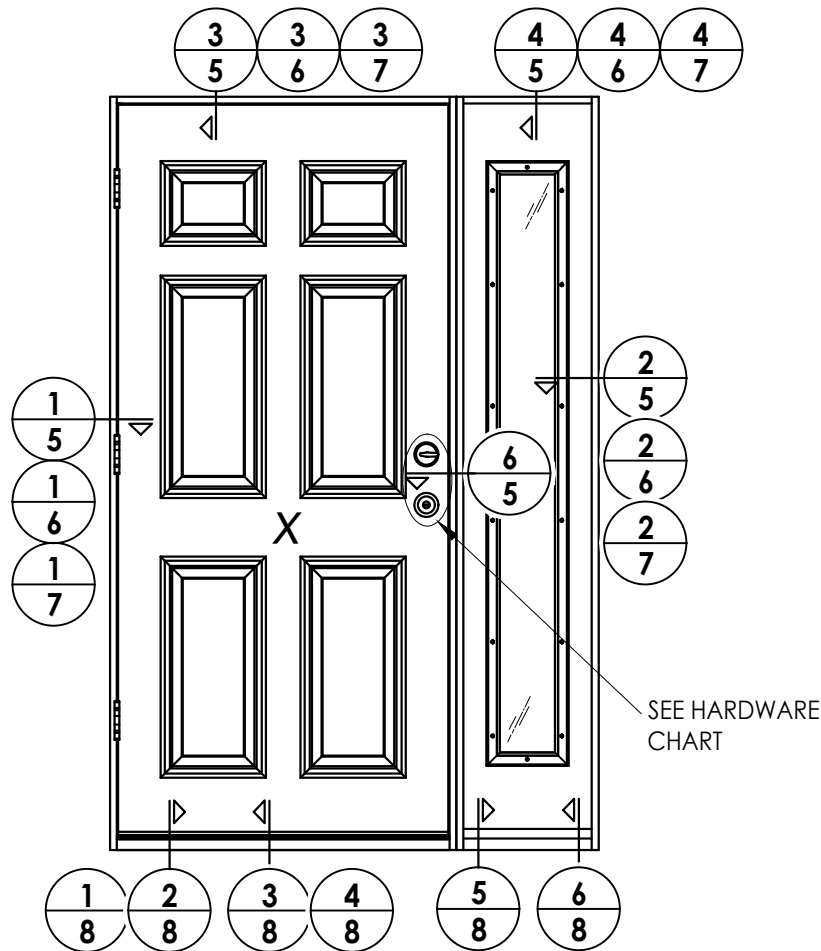
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DWG. BY: JK

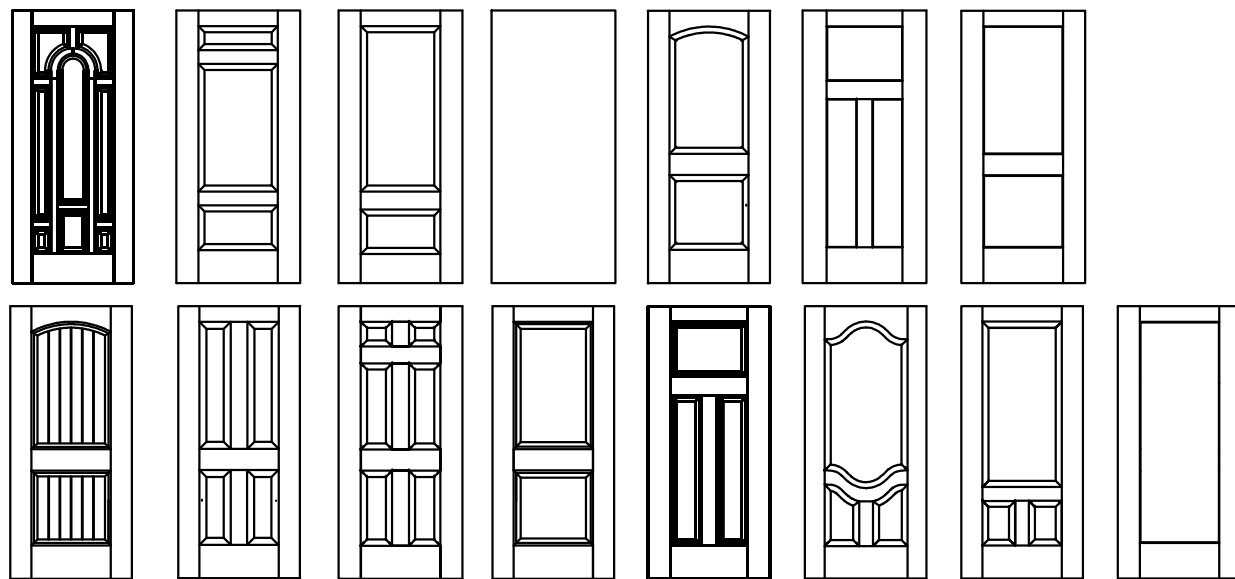
CHK. BY: LFS

DRAWING NO.:
FL-21133.5

SHEET 3 OF 14

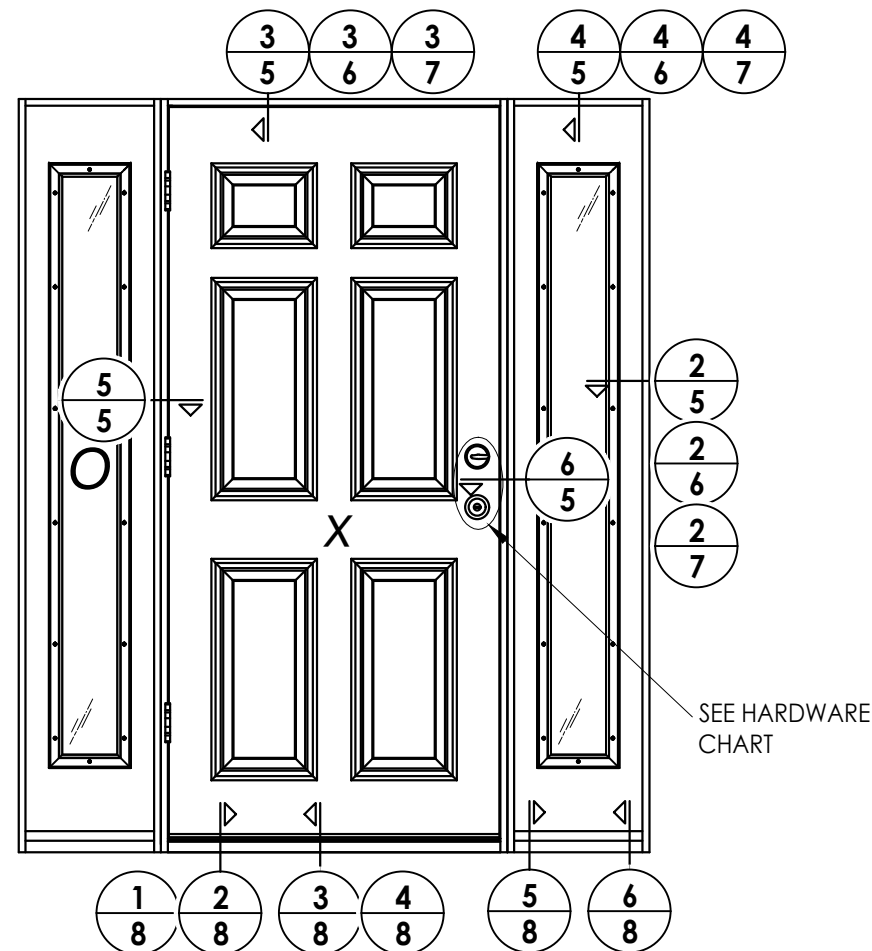


ELEVATION
XO



Fiber-Classic/Smooth-Star Door Panel Options

Products approved include all embossed and recessed panel doors.
Similar opaque panel configurations are allowed.
Panels shown are for illustration and are representative only.



ELEVATION
OXO

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	Knob: F51
	Deadbolt: B60
KWIKSET	Knob: Signature Series
	Deadbolt: Signature Series (980)

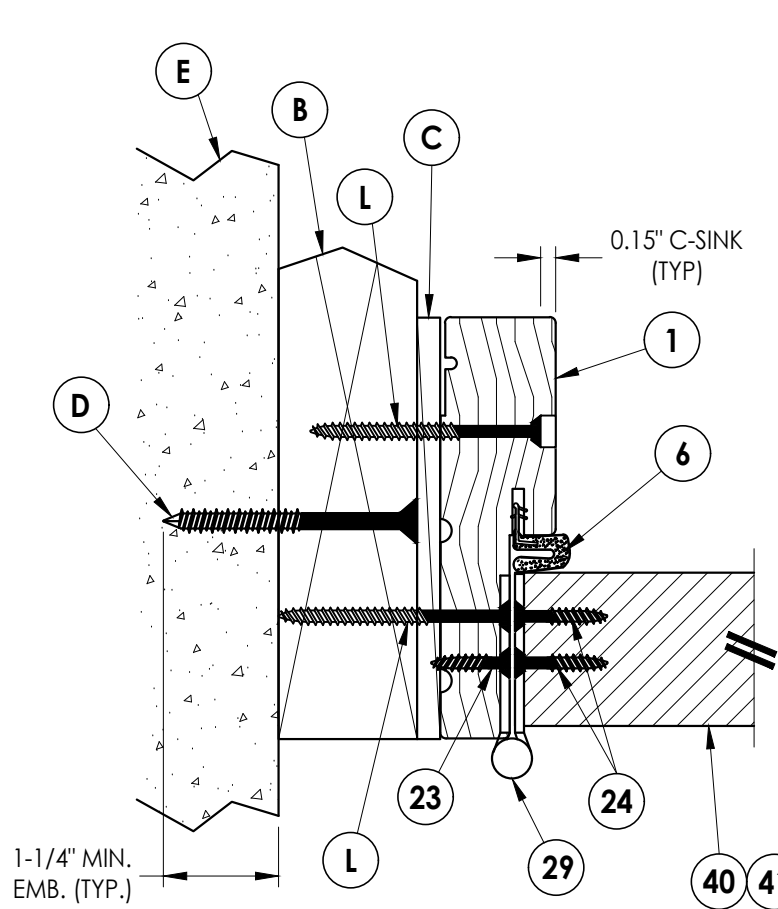
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3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO
2	10/10/18	REV. DOOR PANEL OPTION	NOTE	MT
1	11/15/17	RECESSED PANEL NOTATION		JK
NO.	DATE			BY

DATE:	07/07/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21133.5
SHEET	4 OF 14

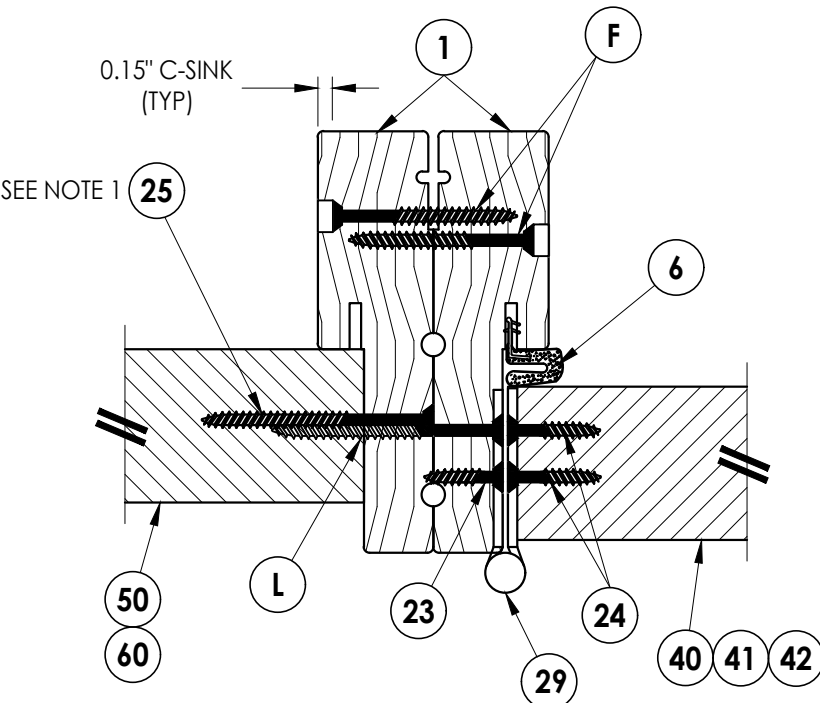
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

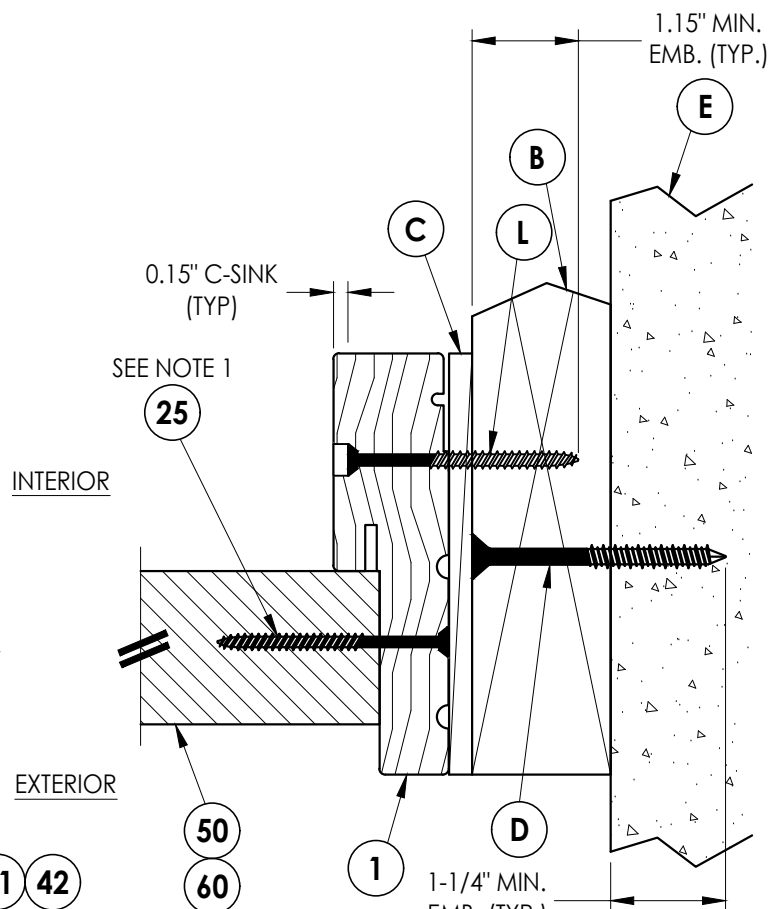
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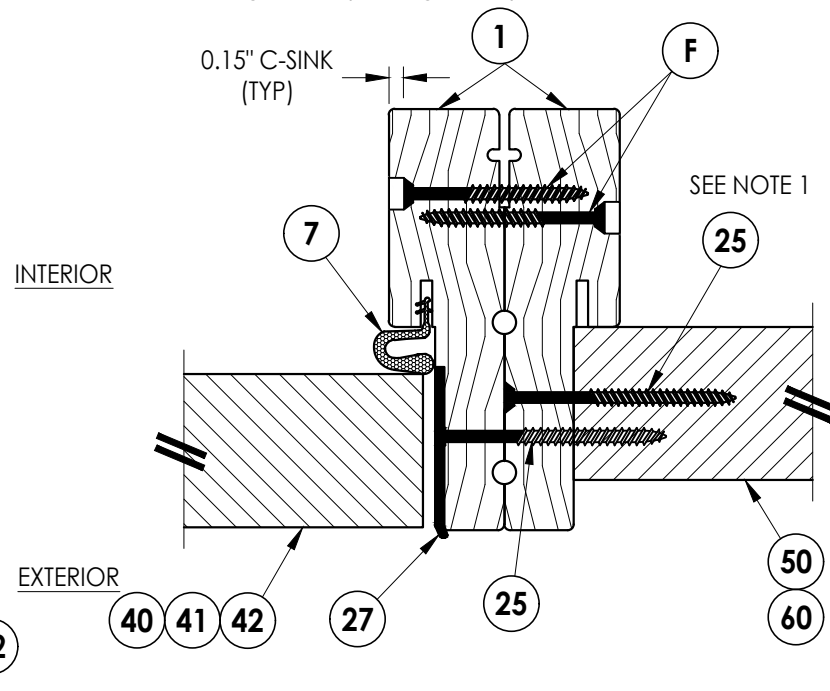
1 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



5 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



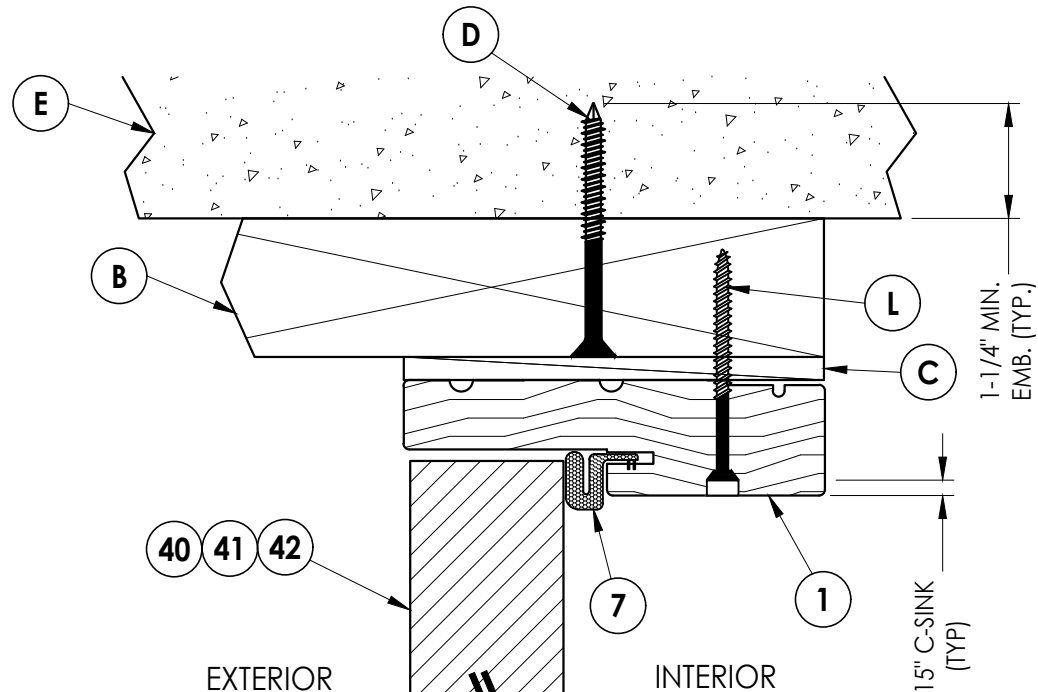
2 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



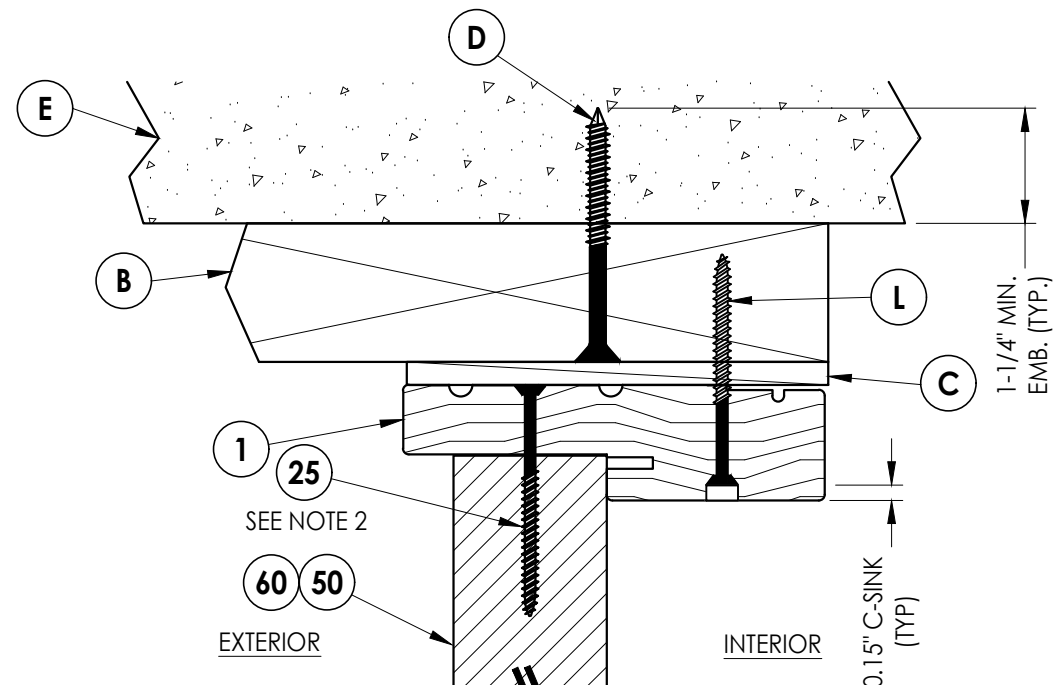
6 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)

Notes:

1. Sidelite assembly screws located 8" from top and 8" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



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



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

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

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
4	8/23/23	UPDATE TO 8TH ED. (2023) FBC
3	7/16/20	UPDATE TO 7th ED (2020) FBC
2	10/10/18	REV. DOOR PANEL OPTION NOTE
1	11/15/17	RECESSED PANEL NOTATION

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

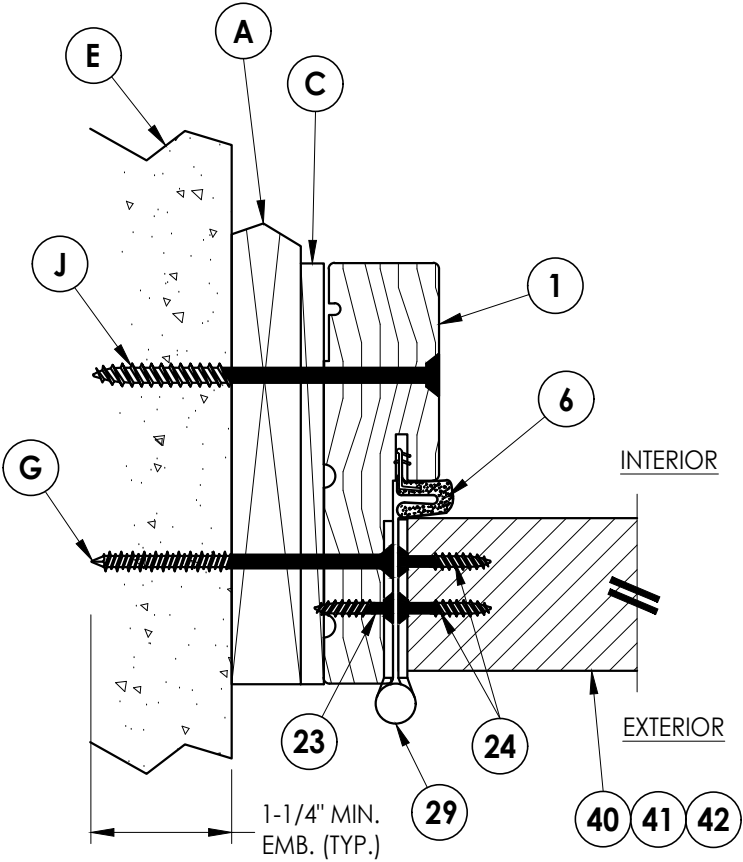
CHK. BY: LFS

DRAWING NO.: FL-21133.5

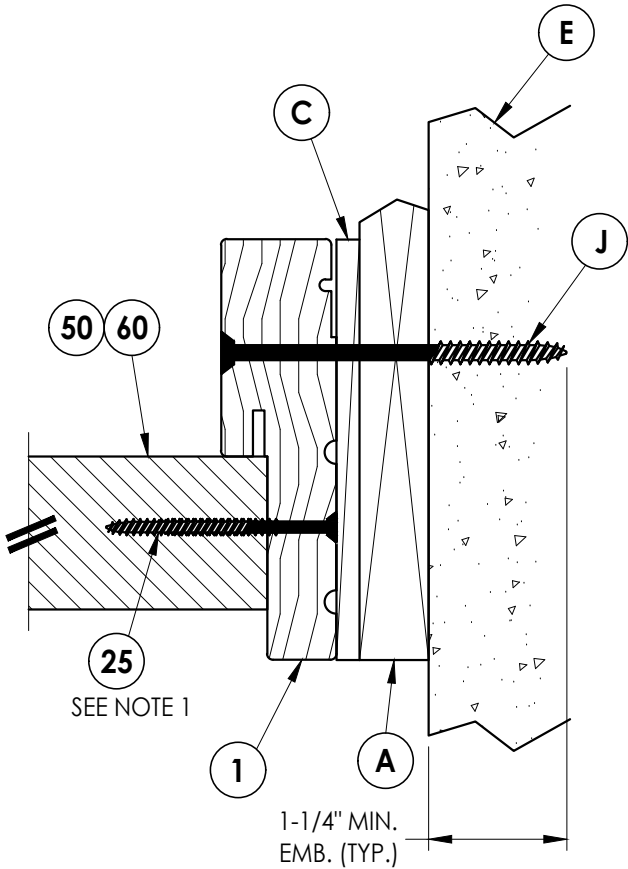
SHEET 5 OF 14

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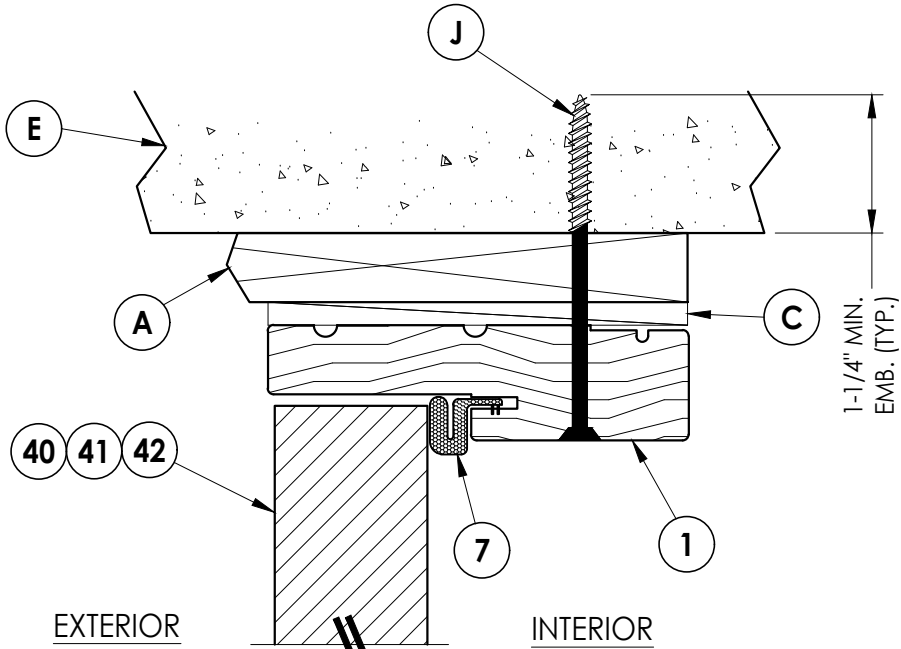
- Notes:
1. Sidelite assembly screws located 8" from top and 8" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



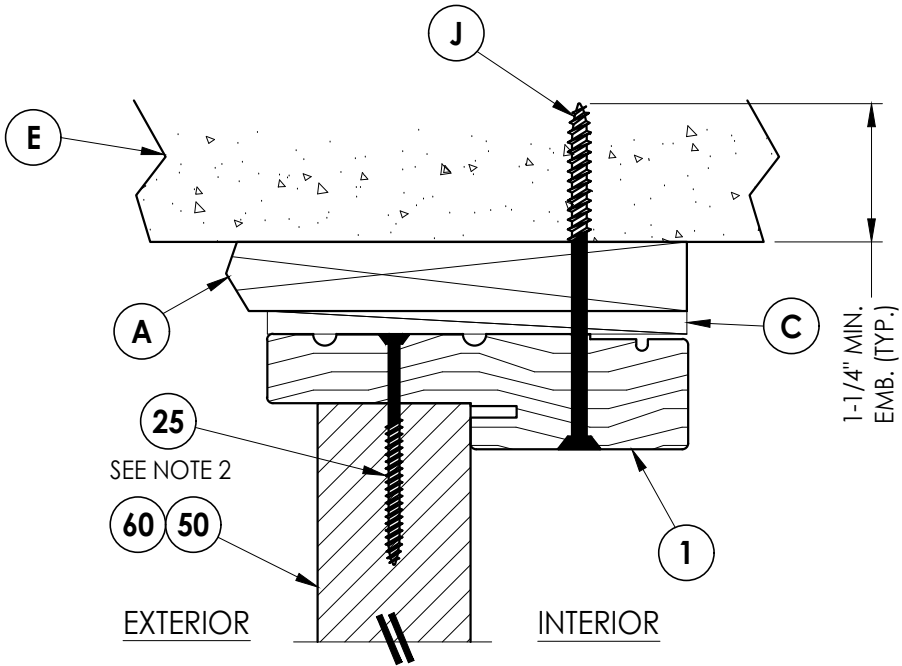
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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)

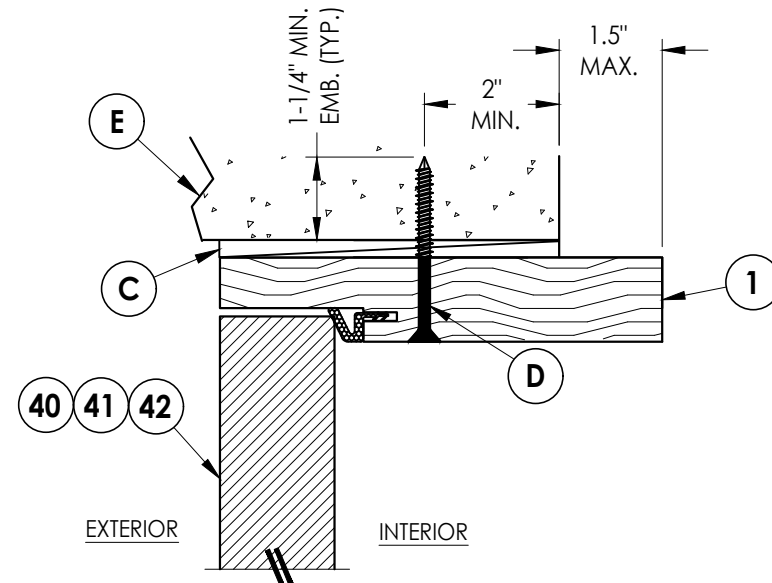
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

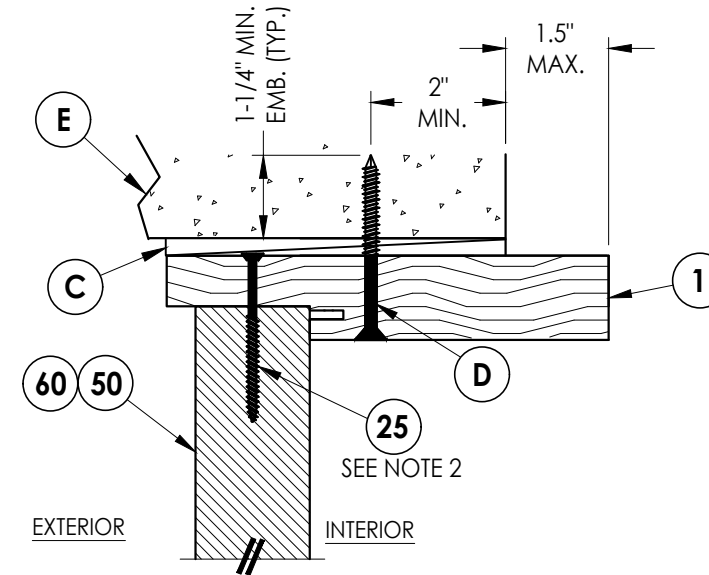
PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS
4	8/23/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020) FBC PO
2	10/10/18	REV. DOOR PANEL OPTION NOTE MT
1	11/15/17	RECESSED PANEL NOTATION JK

DATE: 07/07/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-21133.5
SHEET 6 OF 14



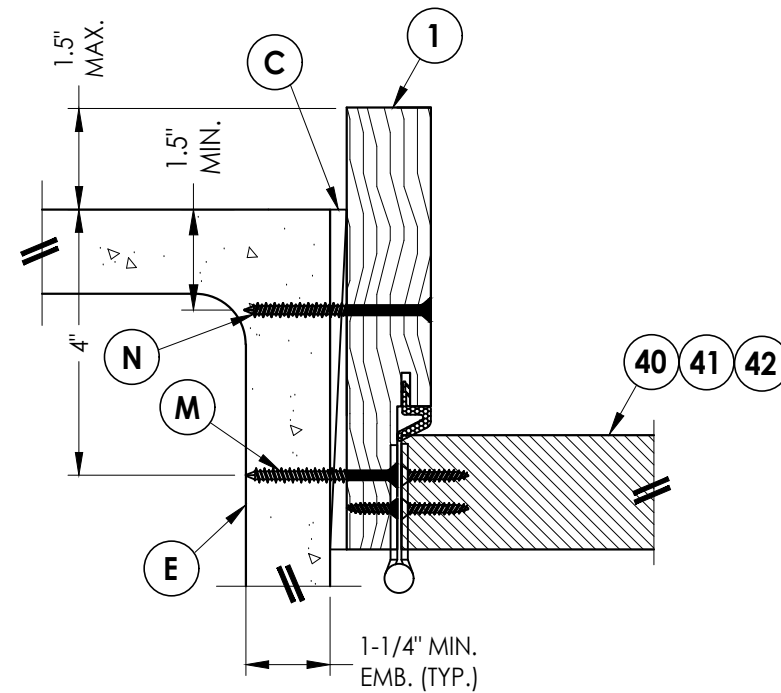
3 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



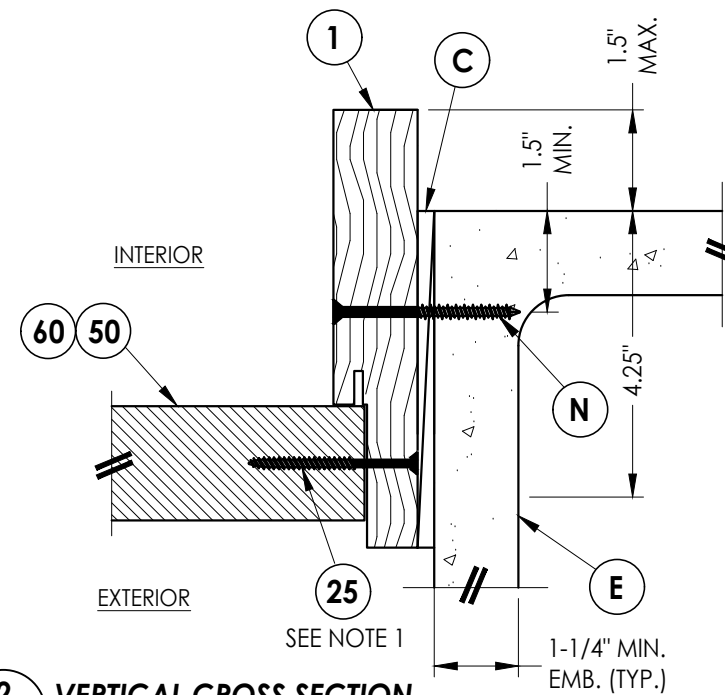
4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

Notes:

1. Sidelite assembly screws located 8" from top and 8" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



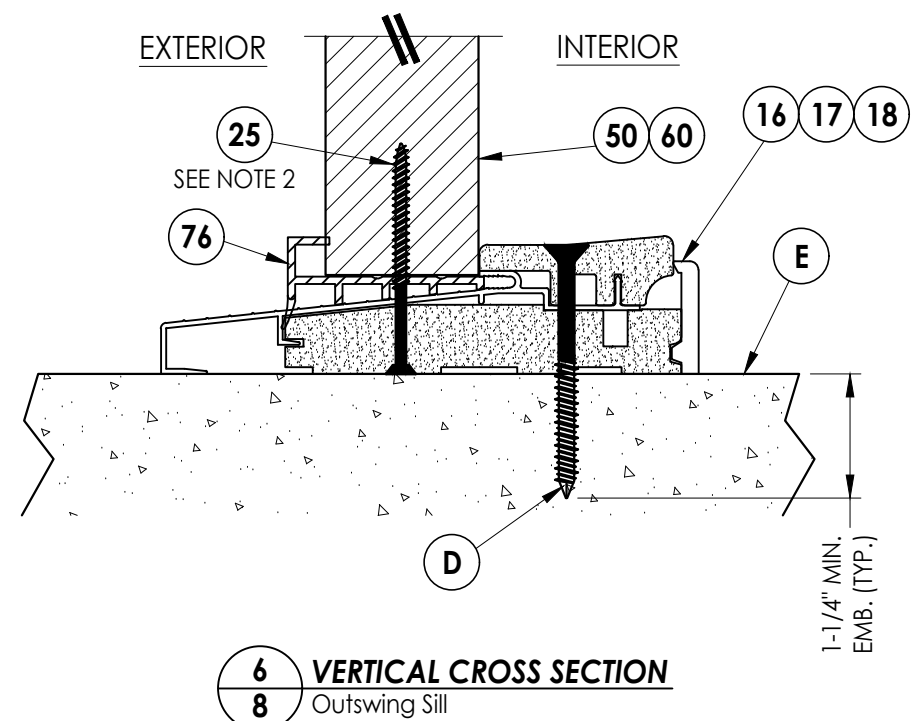
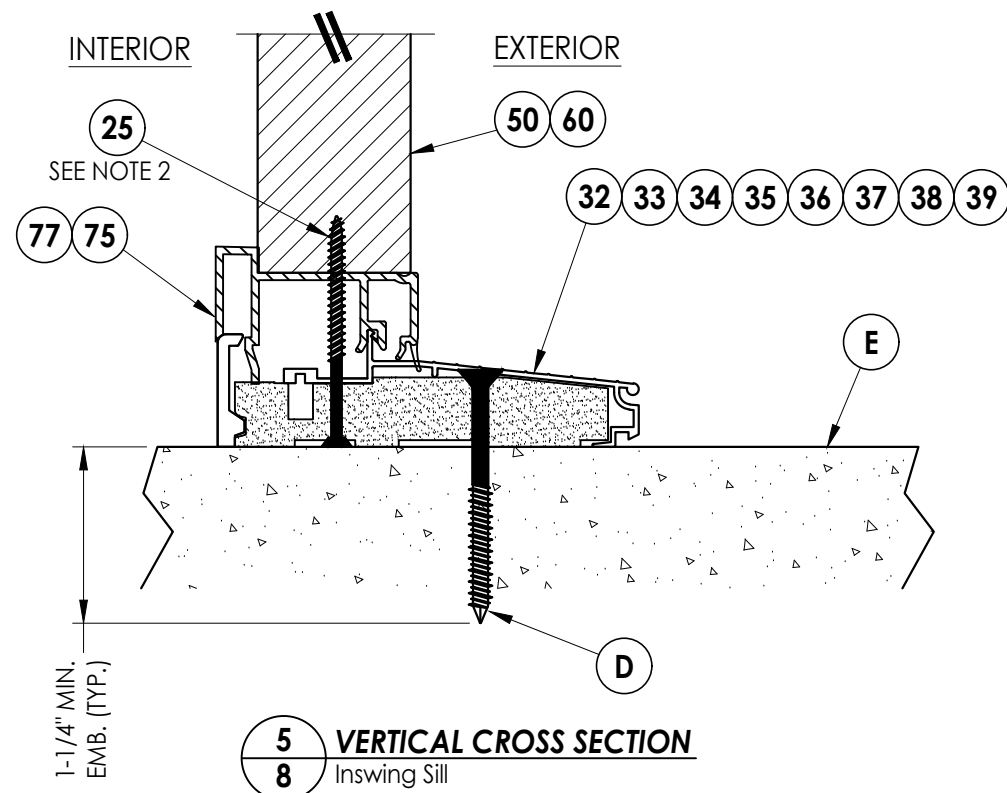
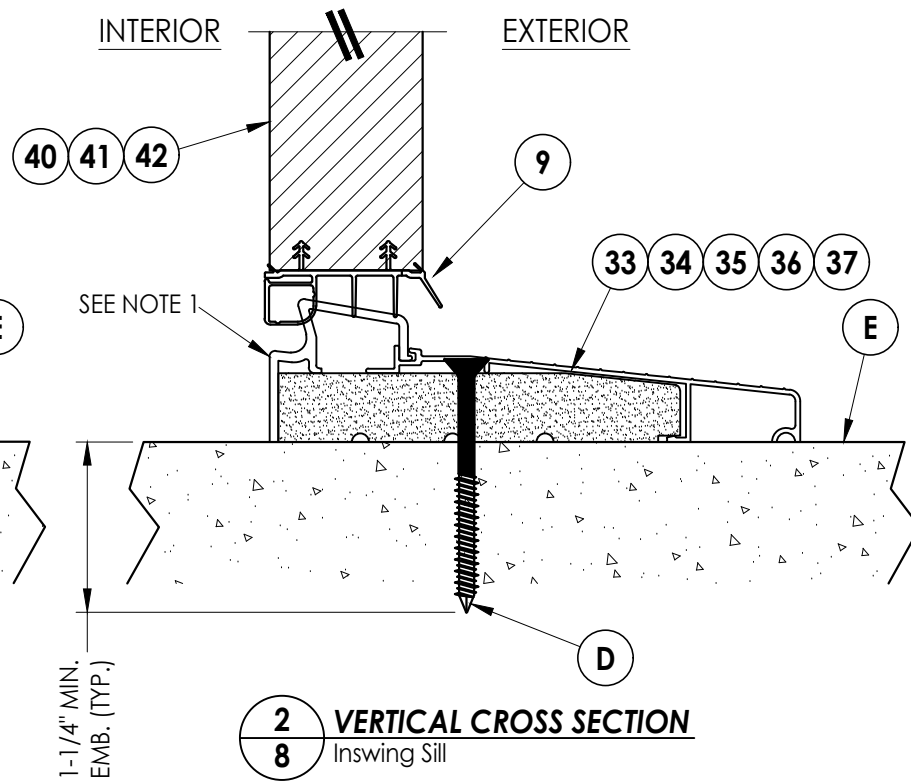
1 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



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

DATE: 07/07/17		REVISIONS	
SCALE: N.T.S.			
DWG. BY: JK		REVIEWS	
CHK. BY: LFS			
DRAWING NO.: FL-21133.5		REVIEWS	
SHEET 7 OF 14			

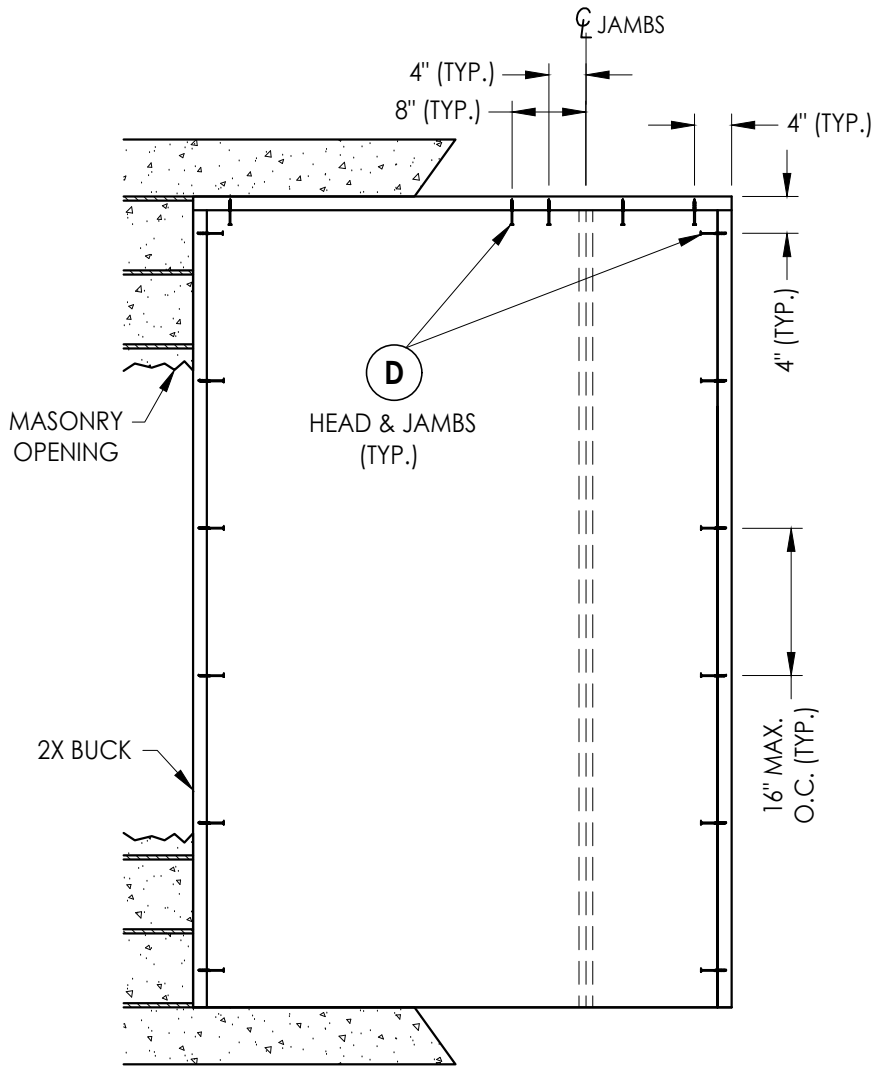
1. Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
2. Sidelite assembly screws located 4" from each end (2 screws along sill).



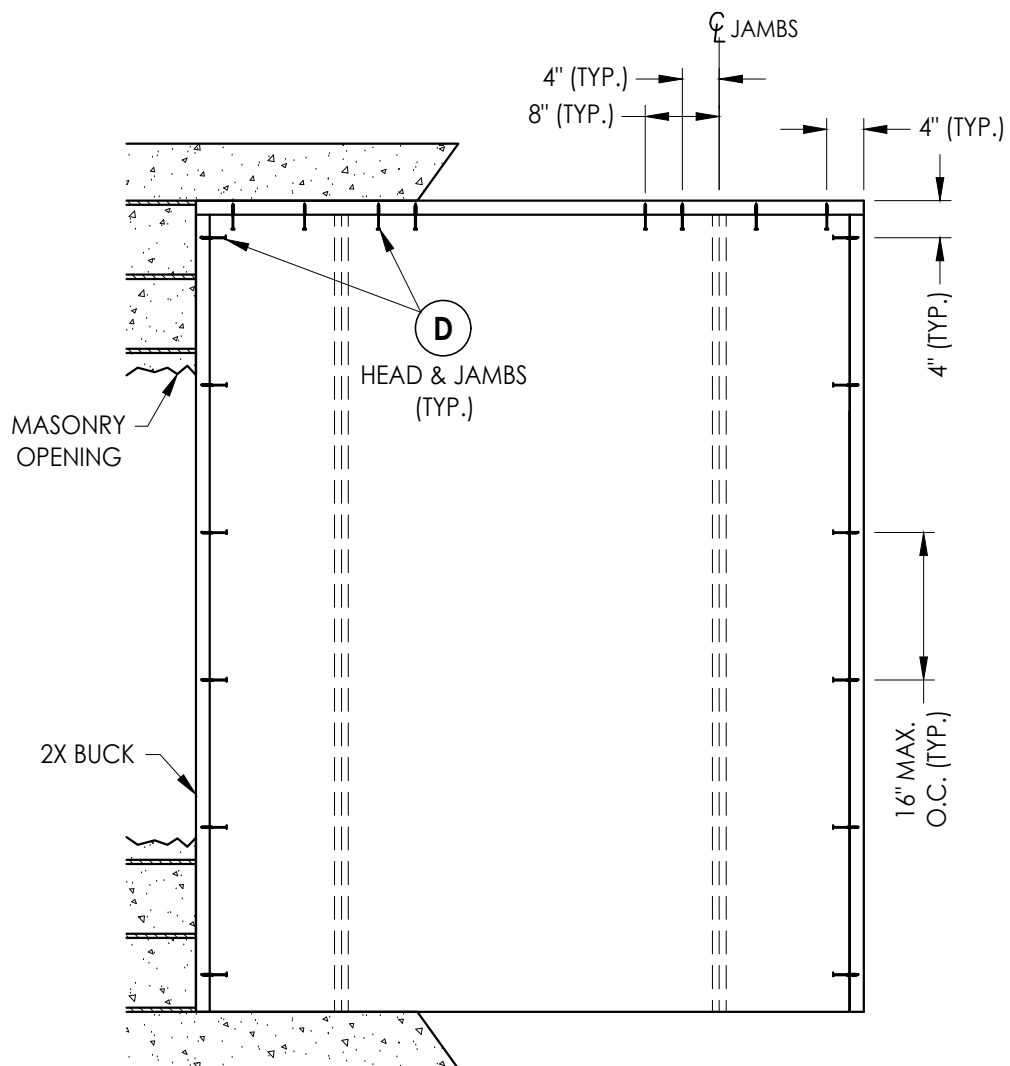
R^W
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:

[illegible]



XO/OX



OXO

2X BUCK ANCHORING

4	8/23/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS		
3	7/16/20	UPDATE TO 7th ED	(2020)	FBC	PQ		
2	10/10/18	REV. DOOR PANEL OPTION	NOTE		MT		
1	11/15/17	RECESSED PANEL NOTATION			BK		
NO.	DATE				BY		
						REVISIONS	
DATE: 07/07/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21133.5							
SHEET	9		OF		14		

PRODUCT:

THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

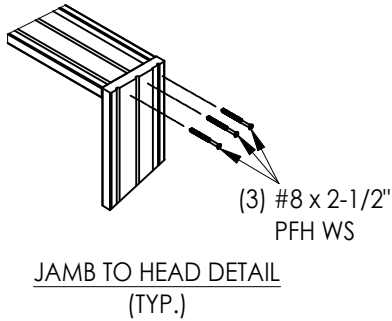
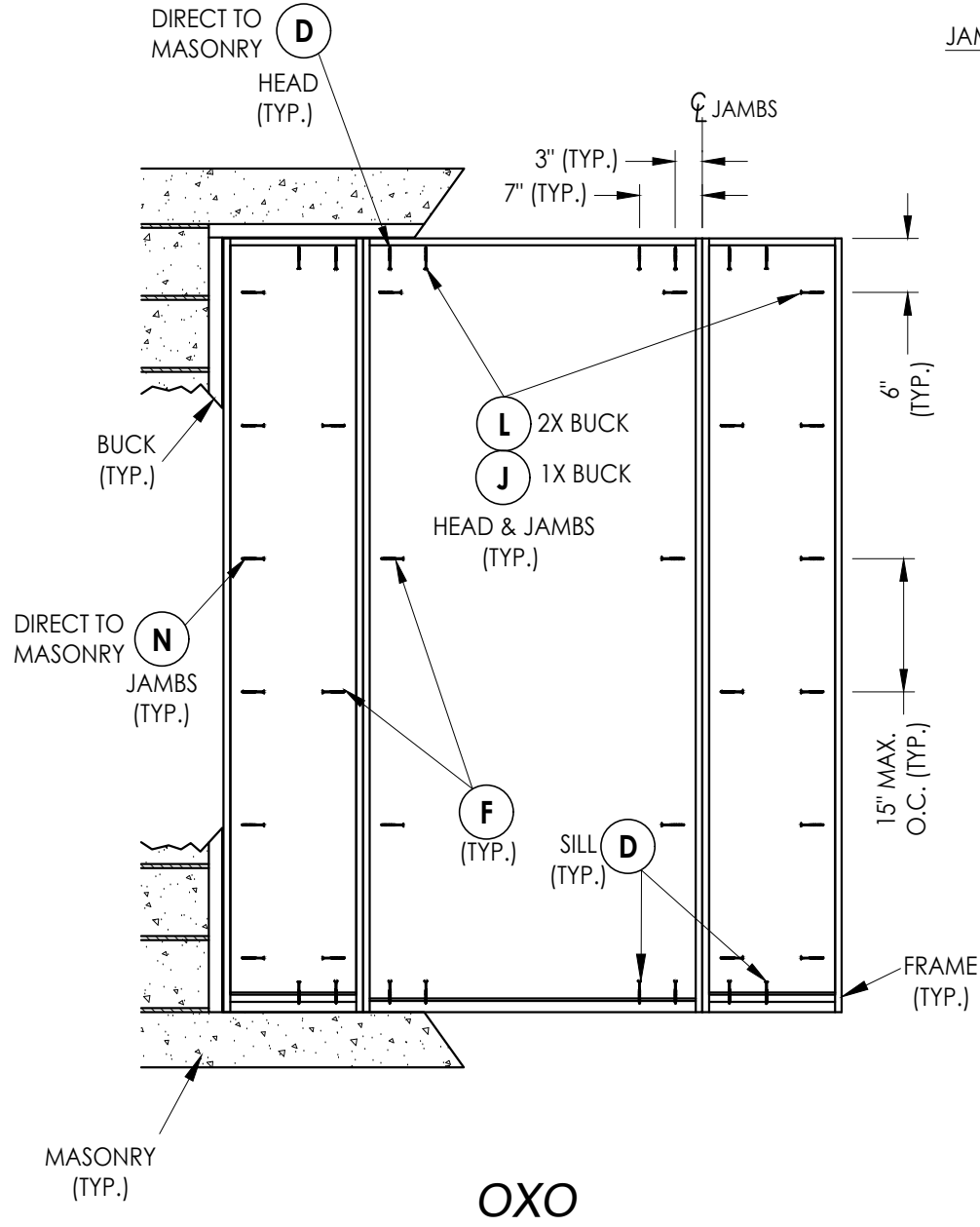
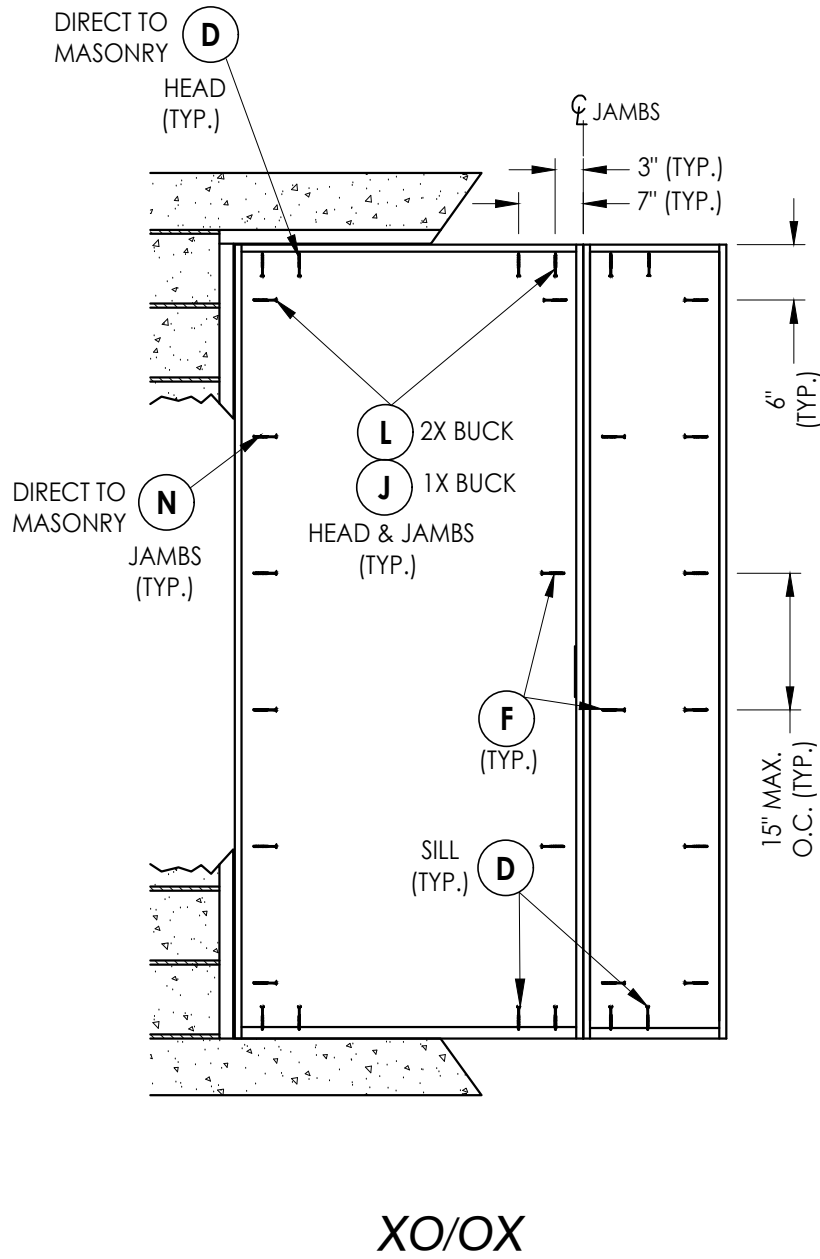
BUCK ANCHORING

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

RV
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
Phone No: 813.659.9197

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

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FRAME ANCHORING

NO.	DATE	REVISIONS			
		NO.	DATE	BY	JK
4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO	
2	10/10/18	REV. DOOR PANEL OPTION	NOTE	MT	
1	11/15/17	RECESSED PANEL NOTATION		JK	

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

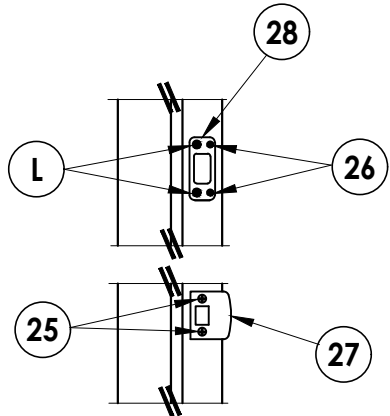
FL-21133.5

SHEET 10 OF 14

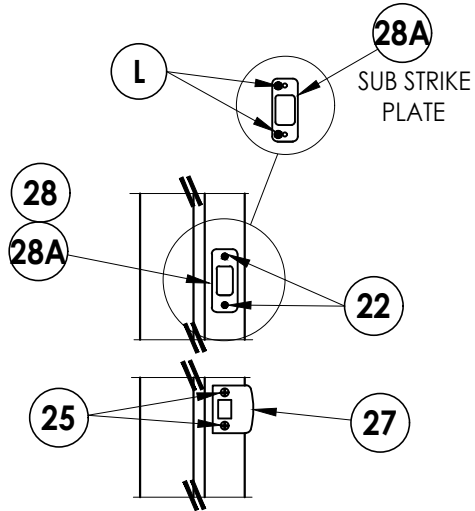
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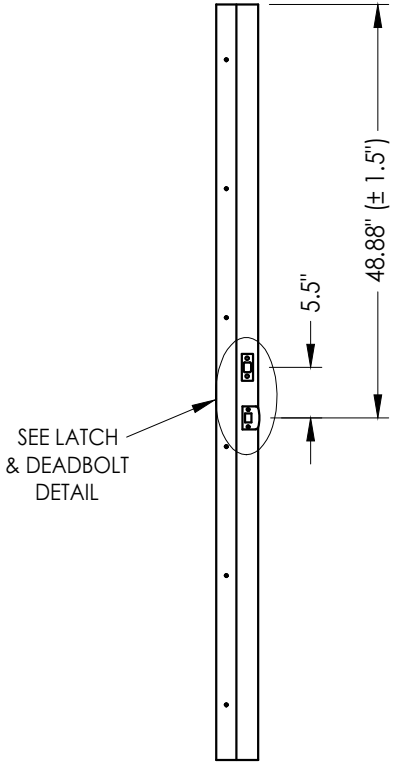


LATCH & DEADBOLT DETAIL
Kwikset

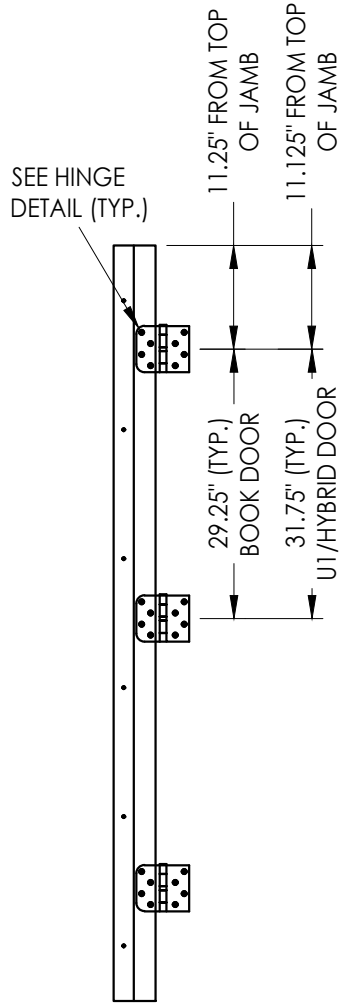


LATCH & DEADBOLT DETAIL
Schlage

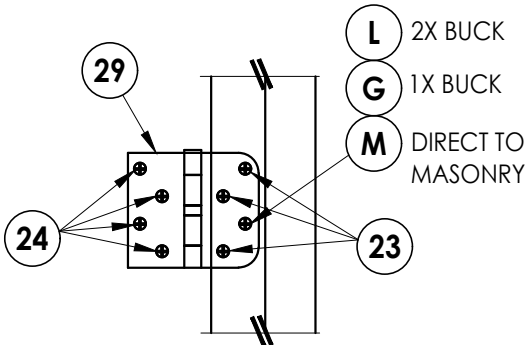
LATCH & DEADBOLT STRIKE DETAILS



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



HINGE DETAIL

NO.	DATE	REVISIONS			
		DATE	BY	JK	MT
4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO	
2	10/10/18	REV. DOOR PANEL OPTION NOTE	MT		
1	11/15/17	RECESSED PANEL NOTATION	JK		

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21133.5

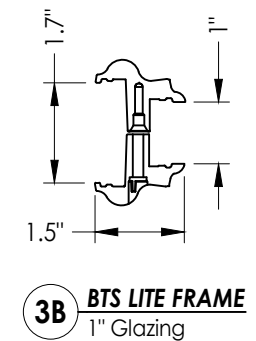
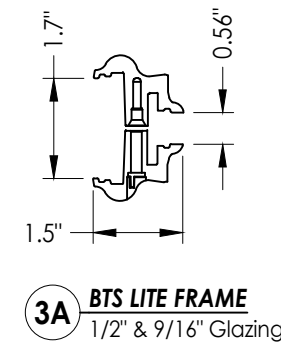
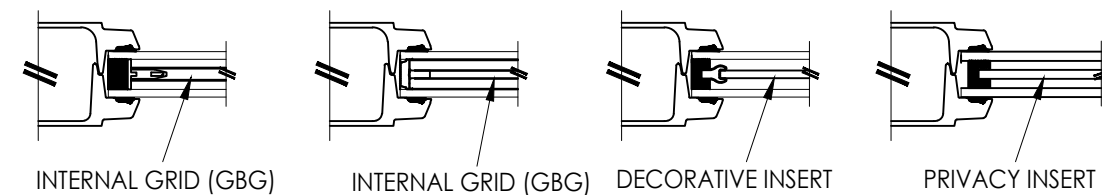
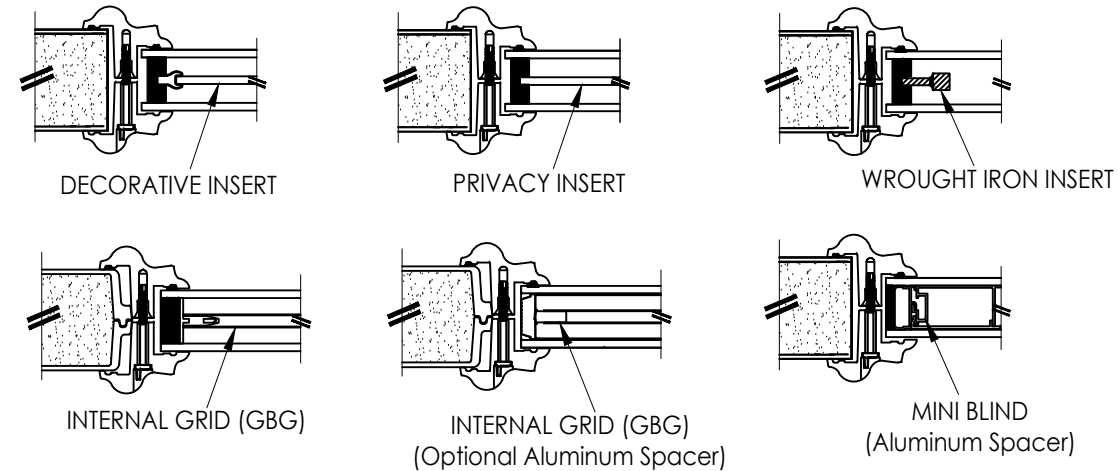
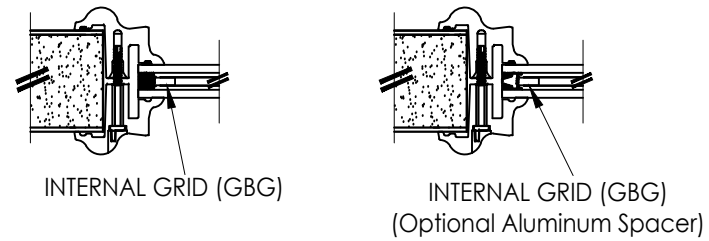
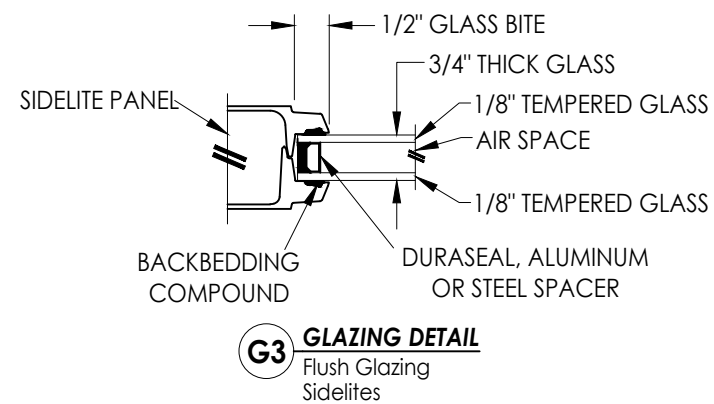
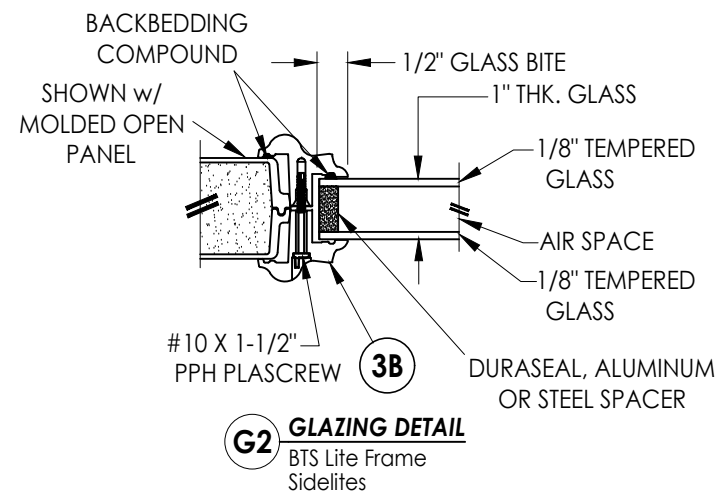
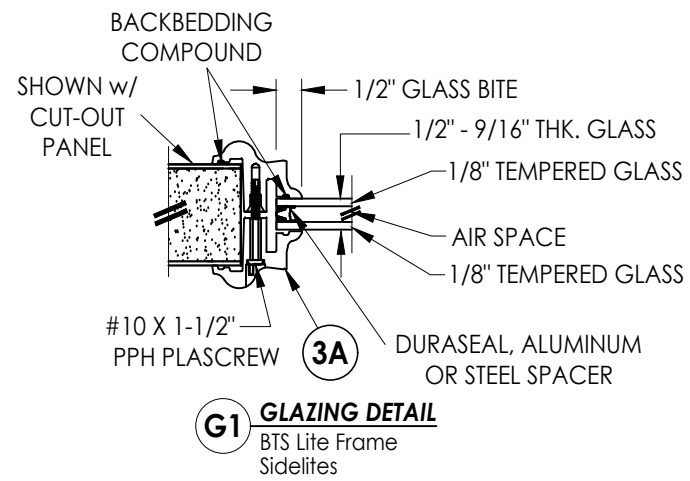
SHEET 11 OF 14

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

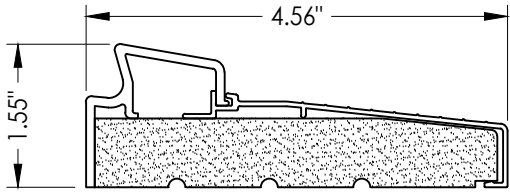
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HARDWARE DETAILS

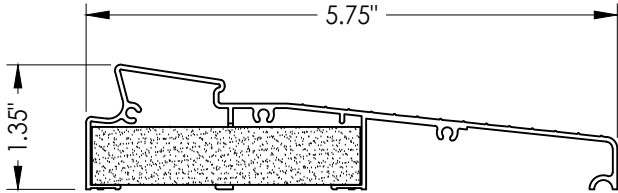


PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: GLAZING DETAILS	
4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020)	FBC PO
2	10/10/18	REV. DOOR PANEL OPTION	NOTE MT
1	11/15/17	RECESSED PANEL NOTATION	JK
NO.	DATE		BY
REVISIONS			
DATE: 07/07/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21133.5			
SHEET 12 OF 14			

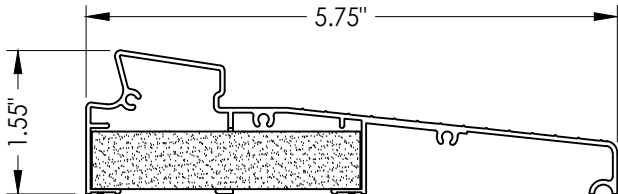
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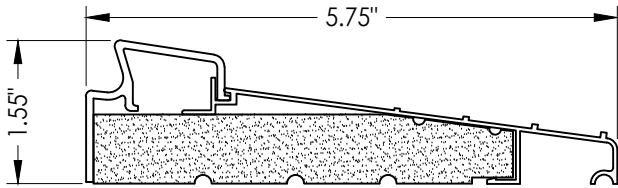
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



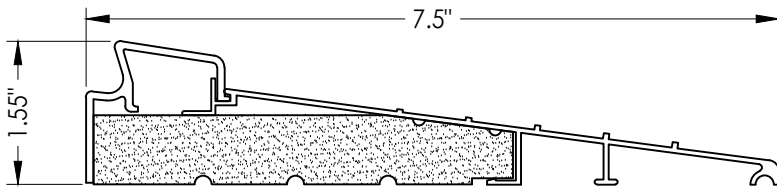
34 INSWING THRESHOLD
Inswing Moderate Climate Sil 1-3/8"



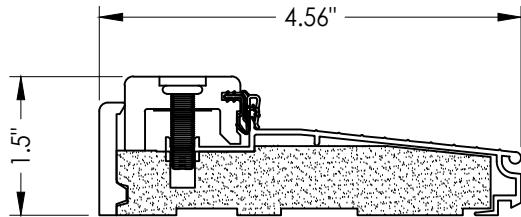
35 INSWING THRESHOLD
Inswing Moderate Climate Sil



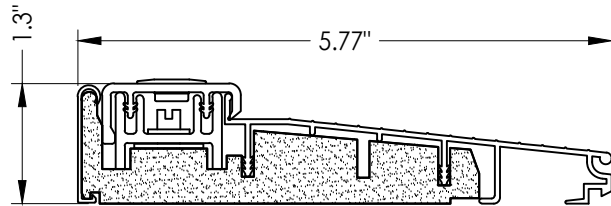
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



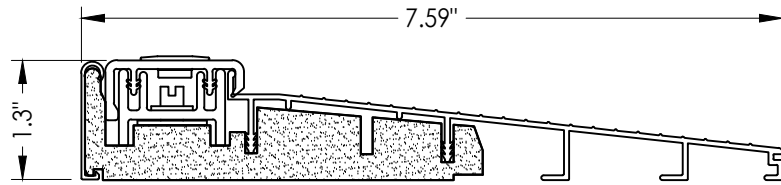
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



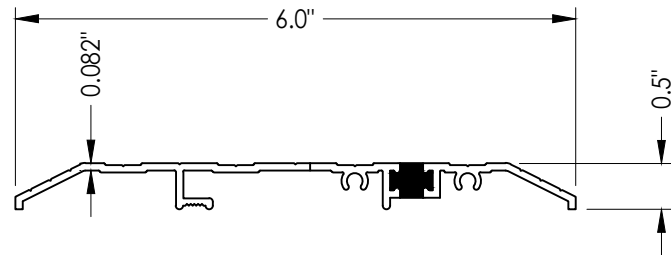
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



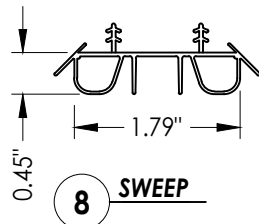
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



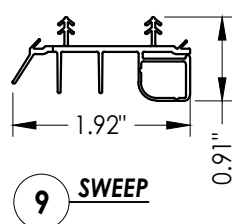
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



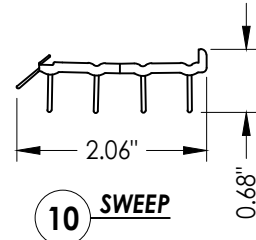
15 PUBLIC ACCESS THRESHOLD



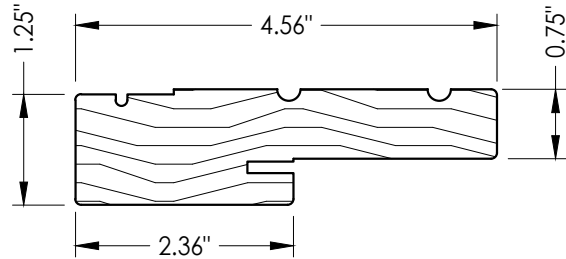
8 SWEEP



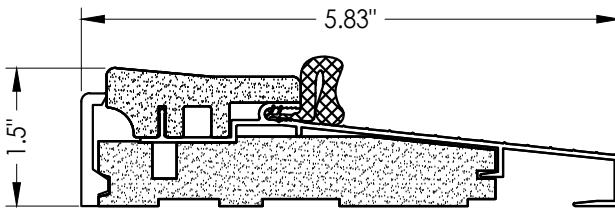
9 SWEEP



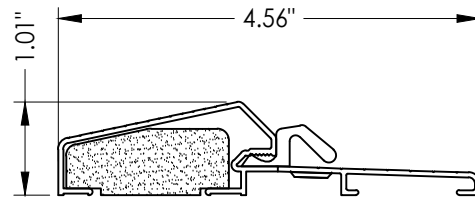
10 SWEEP



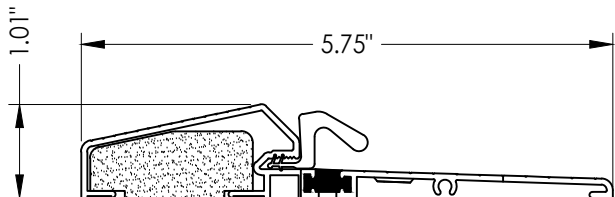
1 WOOD JAMB



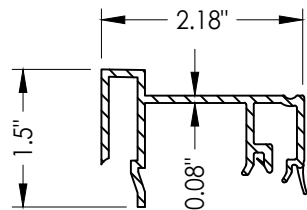
16 OUTSWING THRESHOLD
Composite Sill



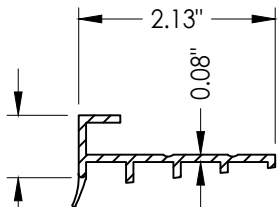
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



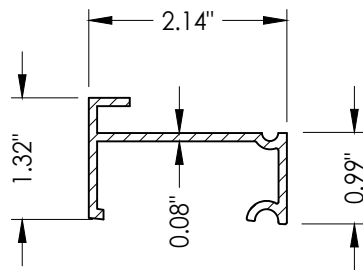
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing

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	JK	MT	PO
4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO	
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1	11/15/17	RECESSED PANEL NOTATION			

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21133.5

SHEET 13 OF 14

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	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
			29	4" X 4" HINGE	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	34	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	35	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	36	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	37	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	38	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	39	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	40	DOOR PANEL (BOOK)	-
8	SWEEP	VINYL	41	DOOR PANEL (HYBRID)	-
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	42	DOOR PANEL (U1)	-
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	50	SIDELITE (FULL LITE)	-
15	PUBLIC ACCESS THRESHOLD	ALUM	60	SIDELITE (FLUSH GLAZED)	-
16	OUTSWING THRESHOLD	ALUM/COMP	75	SIDELITE SPACER (INSWING)	PVC
17	OUTSWING THRESHOLD	ALUM/COMP	76	SIDELITE SPACER (OUTSWING)	PVC
18	OUTSWING THRESHOLD	ALUM/COMP	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
22	#8 x 3/4" PFH WOOD SCREW	STEEL			
23	#10 x 3/4" PFH WOOD SCREW	STEEL			
24	#10 x 1" PFH WOOD SCREW	STEEL			

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.

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PART OR ASSEMBLY:		BILL OF MATERIALS			
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SHEET 14 OF 14					