

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



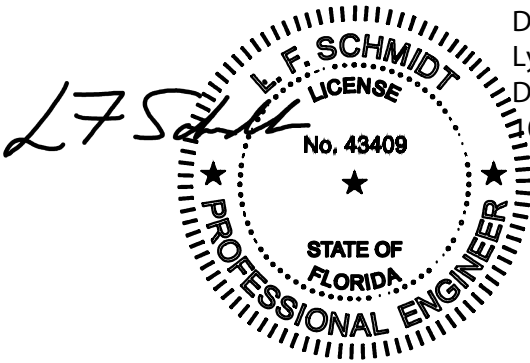
Fiber-Classic® & Smooth-Star®

COMPOSITE EDGE
OPAQUE FIBERGLASS SINGLE DOOR
INSWING/OUTSWING
"IMPACT" DOOR w/ "NON-IMPACT" SIDELITES

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 FBC Section 1626 and does not require an impact resistant covering. The non-impact sidelite(s) must be protected with an impact resistant covering complying with FBC Section 1626.
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. The non-impact sidelite(s) must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.
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 #19) & Composite Sill (item #16) under active doors and all sills used under sidelites meet water infiltration requirements for "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
8. Fiber-Classic & Smooth-Star Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

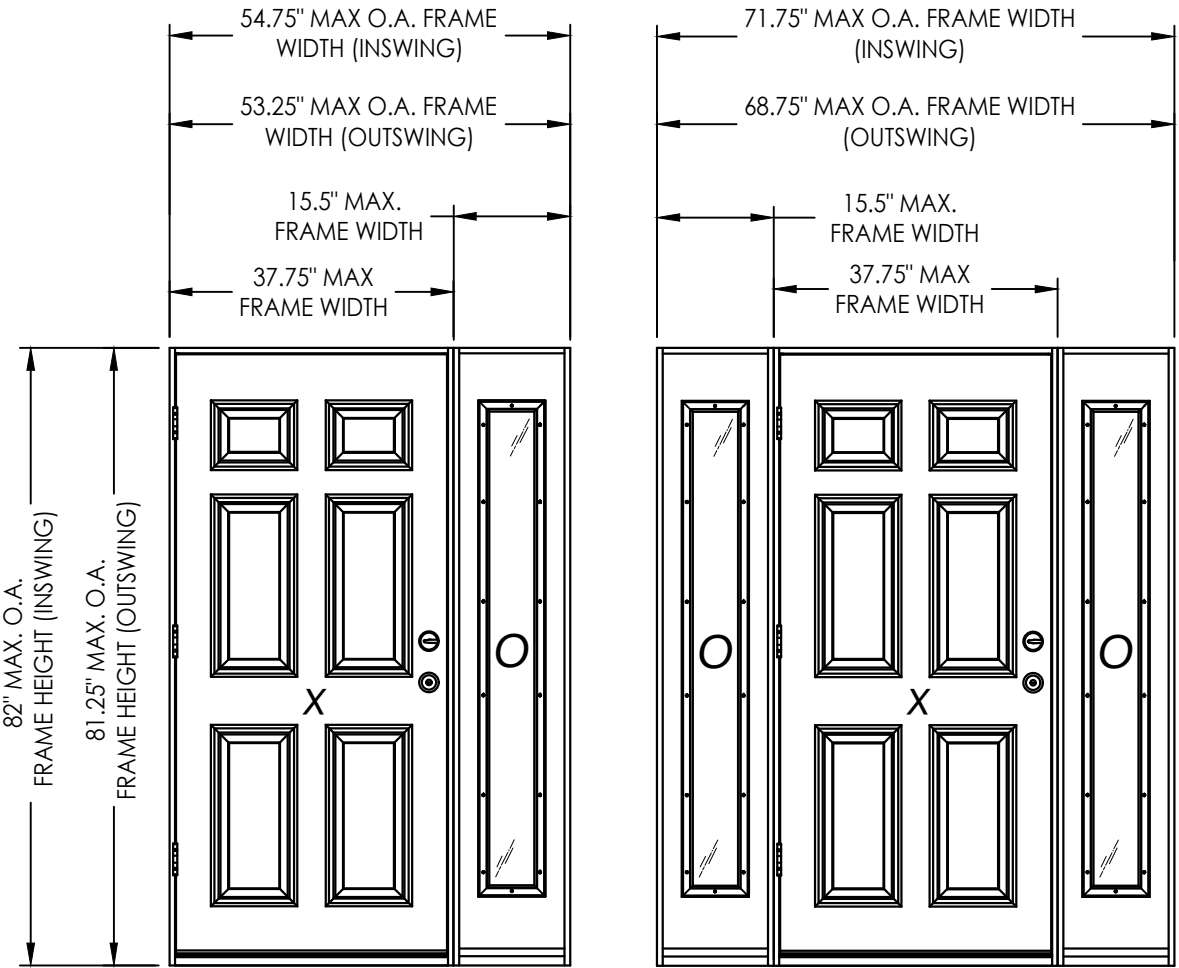
TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes	8	Vertical Cross Sections (Thresholds)
2	Door Panel Details	9	Buck Anchoring
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7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials



Digitally signed by
Lyndon F Schmidt
Date: 2023.07.25
10:57:44 -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



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+60.0	-60.0	+60.0	-60.0

See Sheet 4 for Hardware Specifications

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

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
THERMA TRU
FIBERGLASS DOOR

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20470.13

SHEET 1 OF 14

REVISIONS

3 7/25/23 UPDATE TO 8TH ED. (2023) FBC LFS

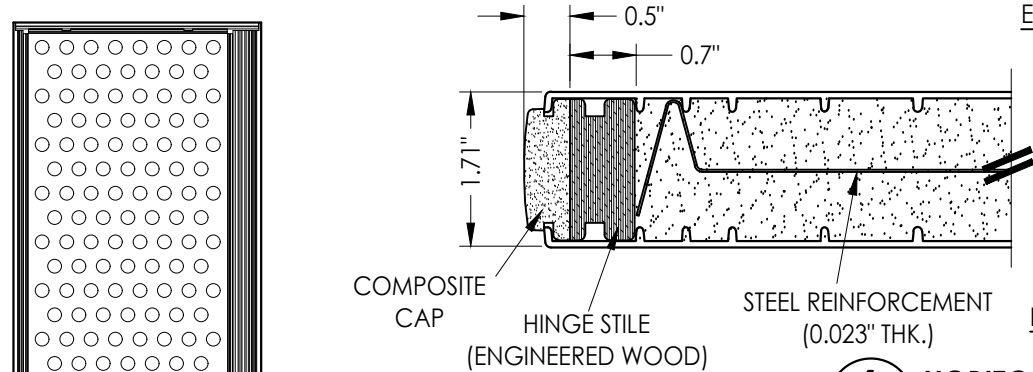
2 7/22/20 UPDATE TO 7th ED (2020) FBC LFS

1 7/14/17 UPDATE TO 6TH ED. (2017) FBC JK

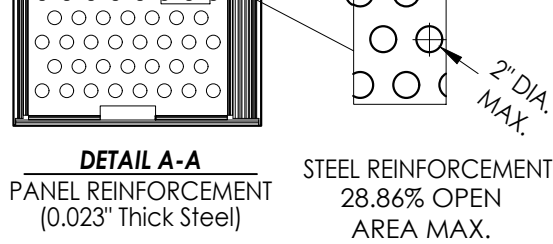
NO. DATE

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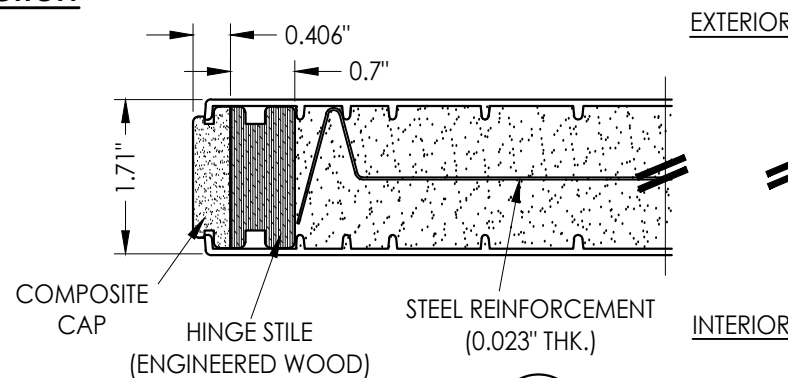
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



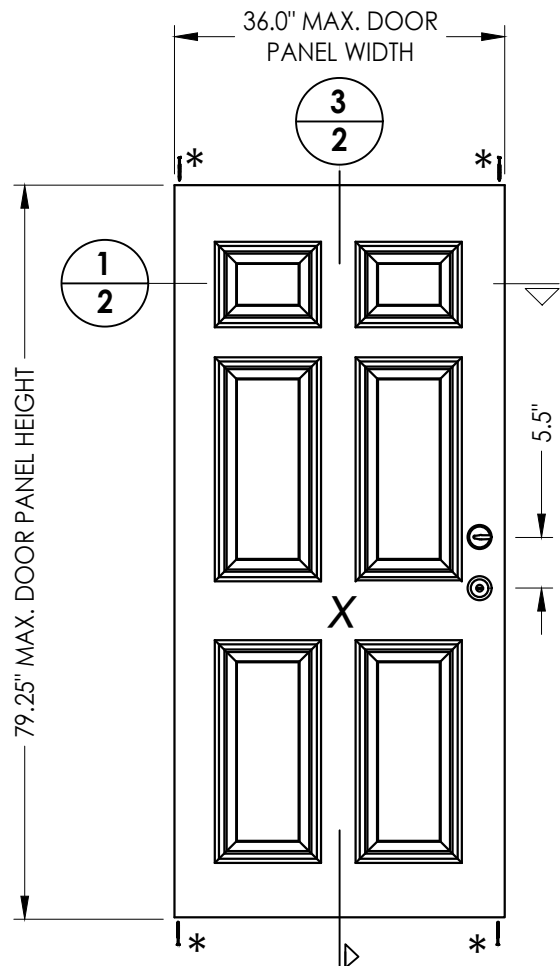
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2 **HORIZONTAL CROSS SECTION**



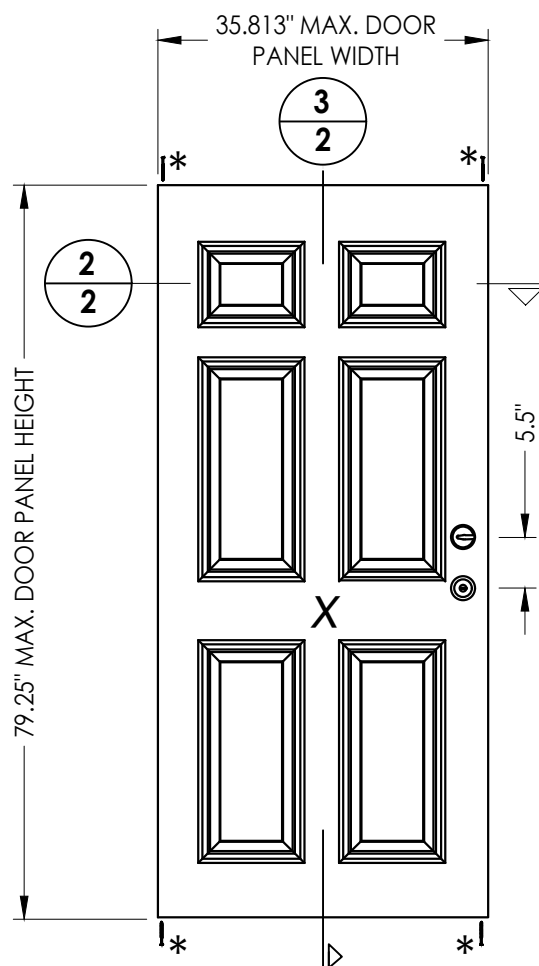
* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



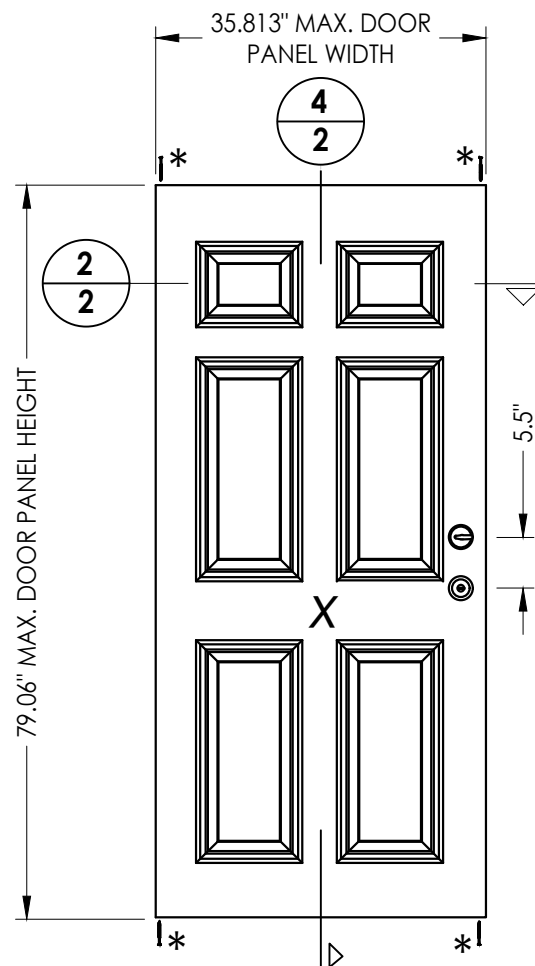
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2 **HORIZONTAL CROSS SECTION**



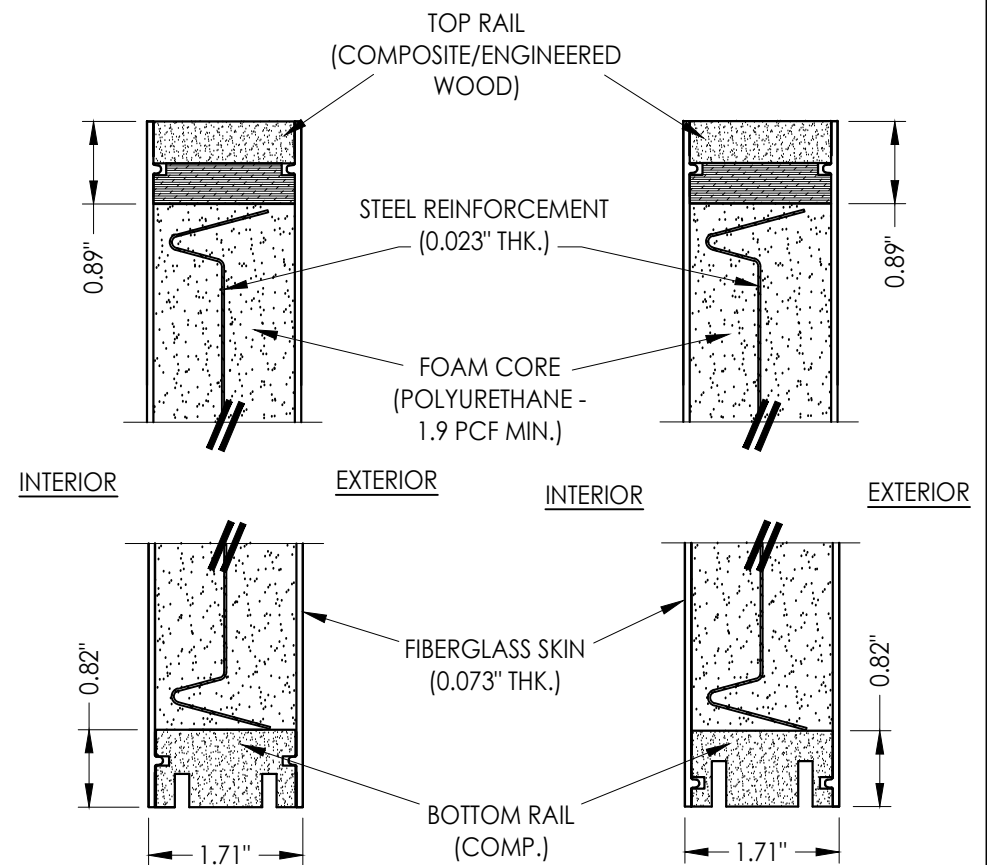
40 **DOOR PANEL**
BOOK



41 **DOOR PANEL**
Hybrid Door



42 **DOOR PANEL**
U1 Door



3
2 **VERTICAL CROSS SECTION**

4
2 **VERTICAL CROSS SECTION**

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

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: 14 FIBERGLASS DOOR
PART OR ASSEMBLY: DOOR PANEL DETAILS

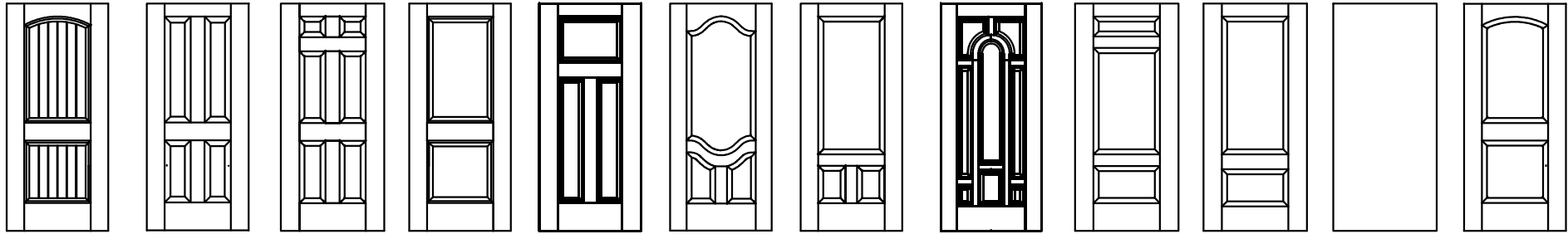
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2	7/22/20	UPDATE TO 7TH ED (2020) FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 8/10/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20470.13
SHEET 2 OF 14

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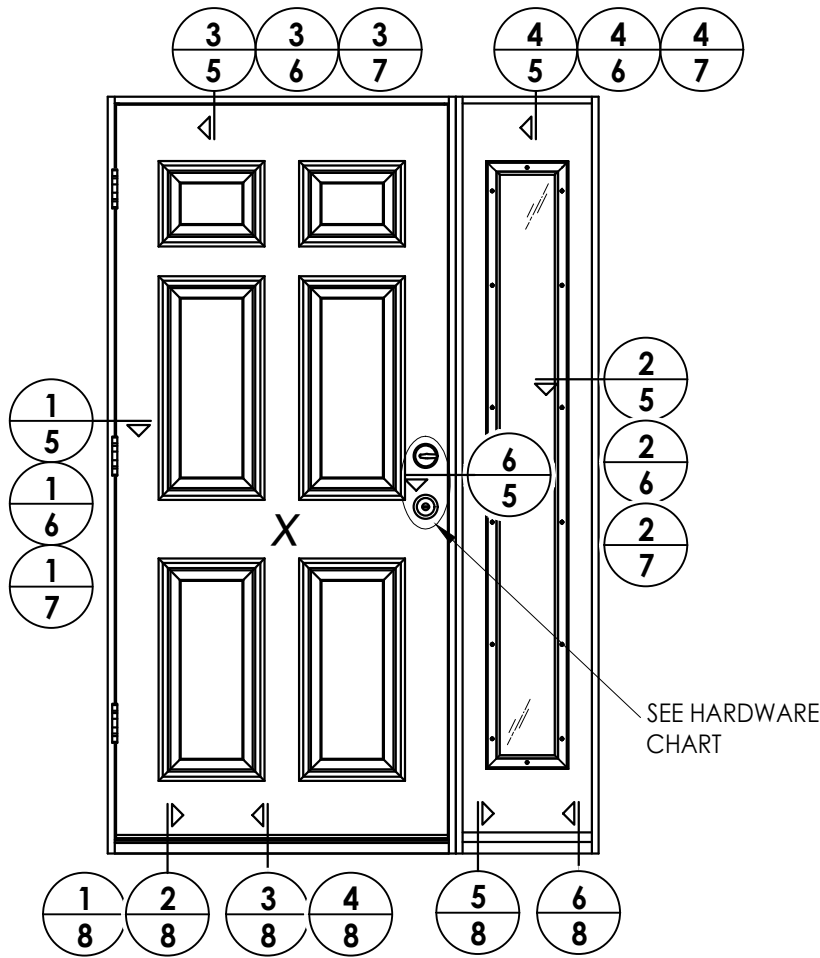
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SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20470.13			
SHEET 3 OF 14		PART OR ASSEMBLY: SIDELITE PANEL DETAILS	

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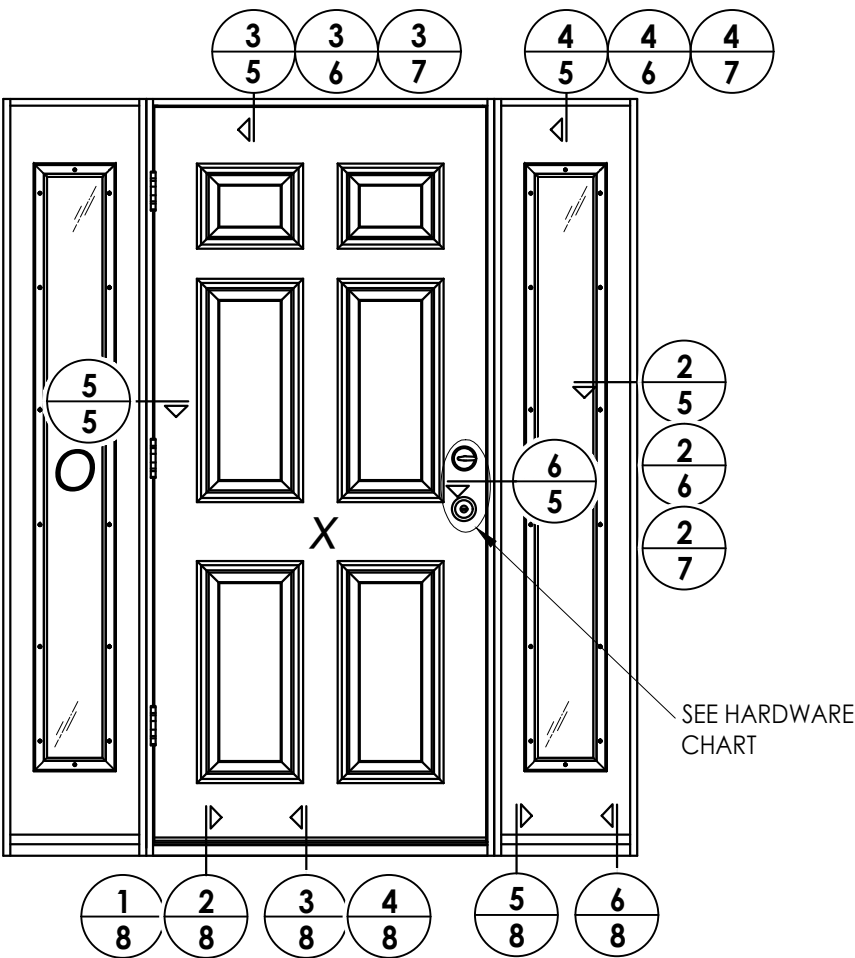


Fiber-Classic/Smooth-Star Door Panel Options

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



ELEVATION
XO



ELEVATION
OXO

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51
	DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)

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FBPE Registry No. 9813

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

		REVISIONS	
NO.	DATE	BY	
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	7/22/20	UPDATE TO 7th ED (2020)	FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC JK

DATE: 8/10/16

SCALE: N.T.S.

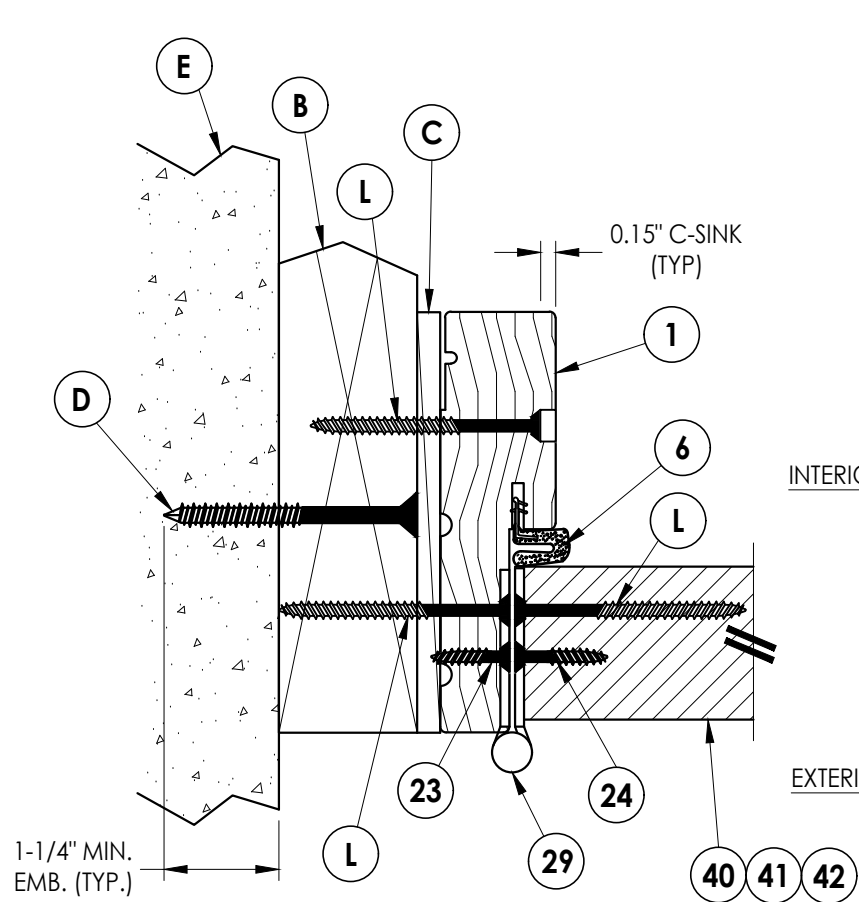
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CHK. BY: LFS

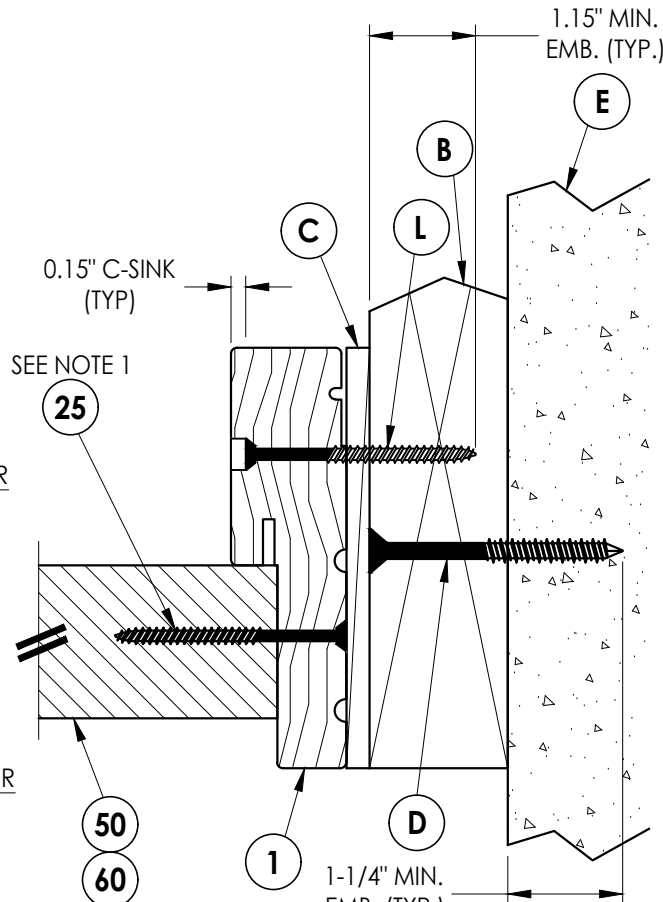
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SHEET 4 OF 14

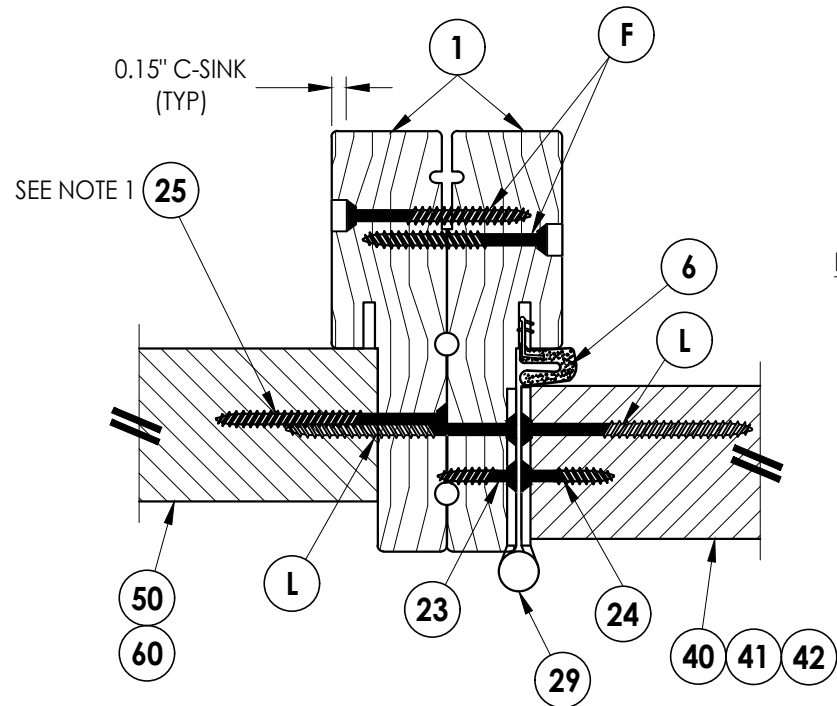
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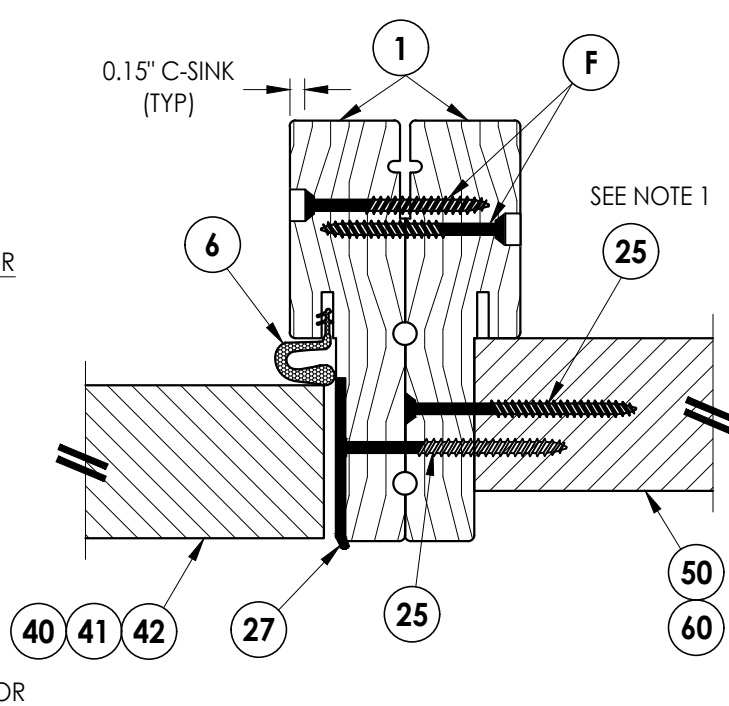
1
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



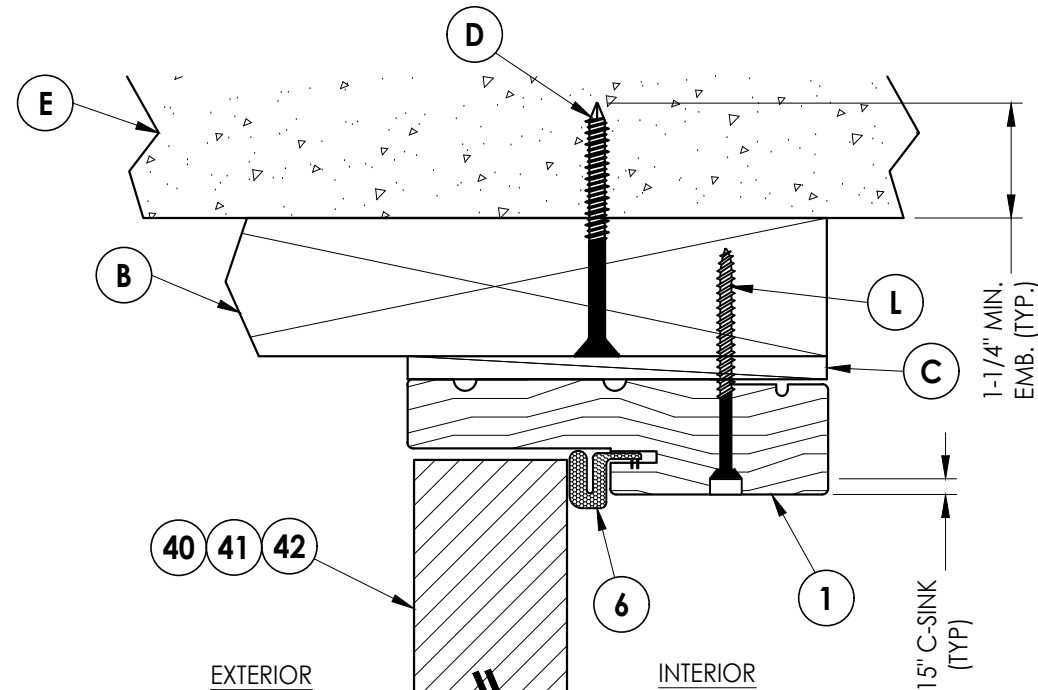
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5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)



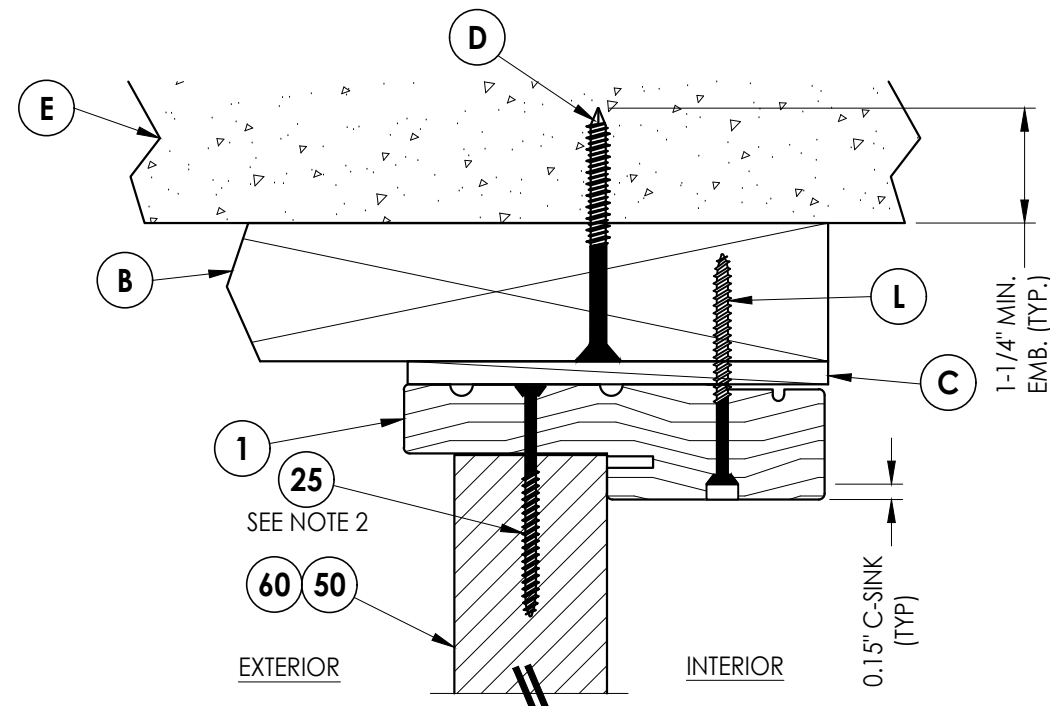
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5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)

Notes:

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



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



4
5 **VERTICAL CROSS SECTION**
Shown w/ 2X 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 (2X BUCK)

NO.	DATE	REVISIONS	BY
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	7/22/20	UPDATE TO 7TH ED (2020) FBC	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

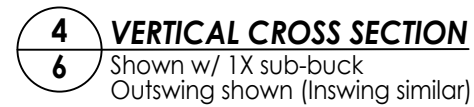
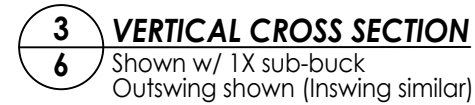
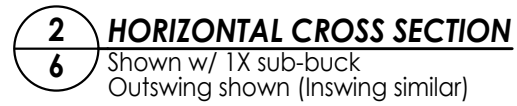
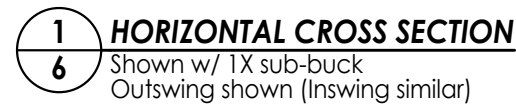
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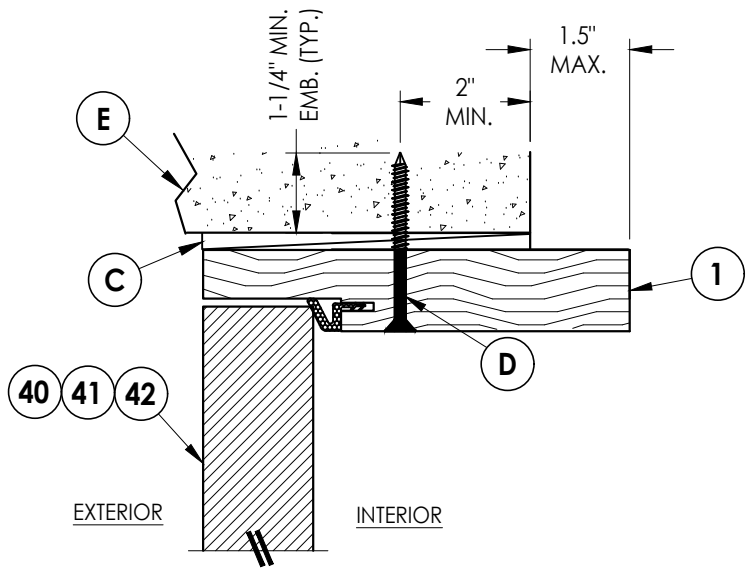
FL-20470.13

SHEET 5 OF 14

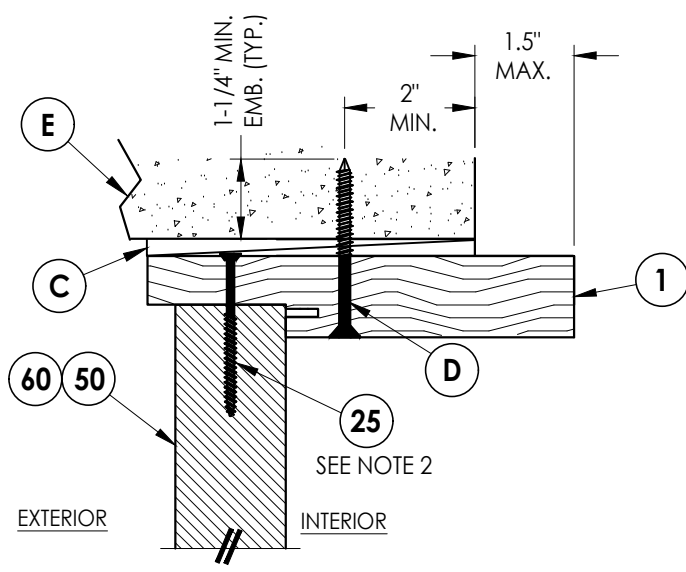
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).

[illegible]

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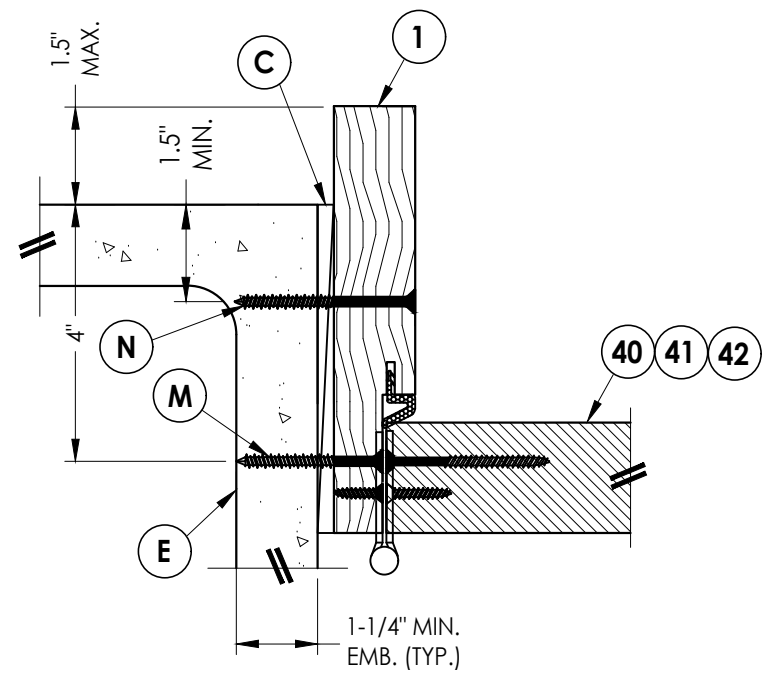


3 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

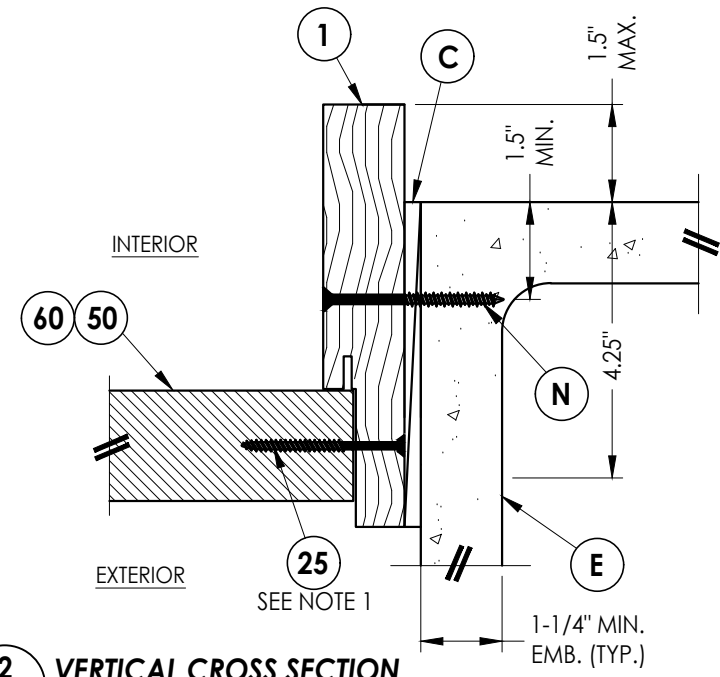


4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

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



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

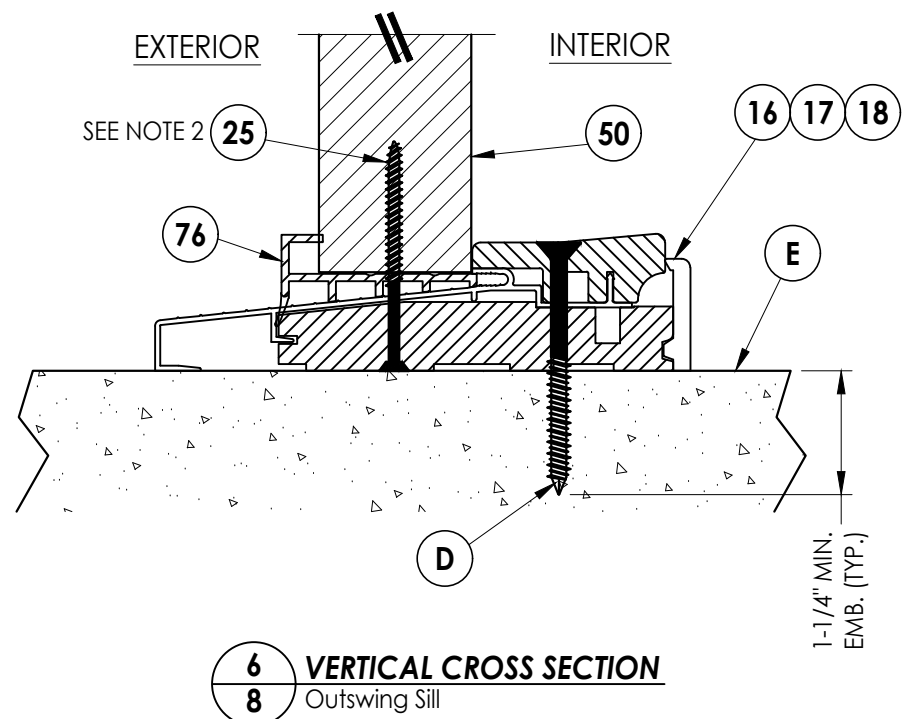
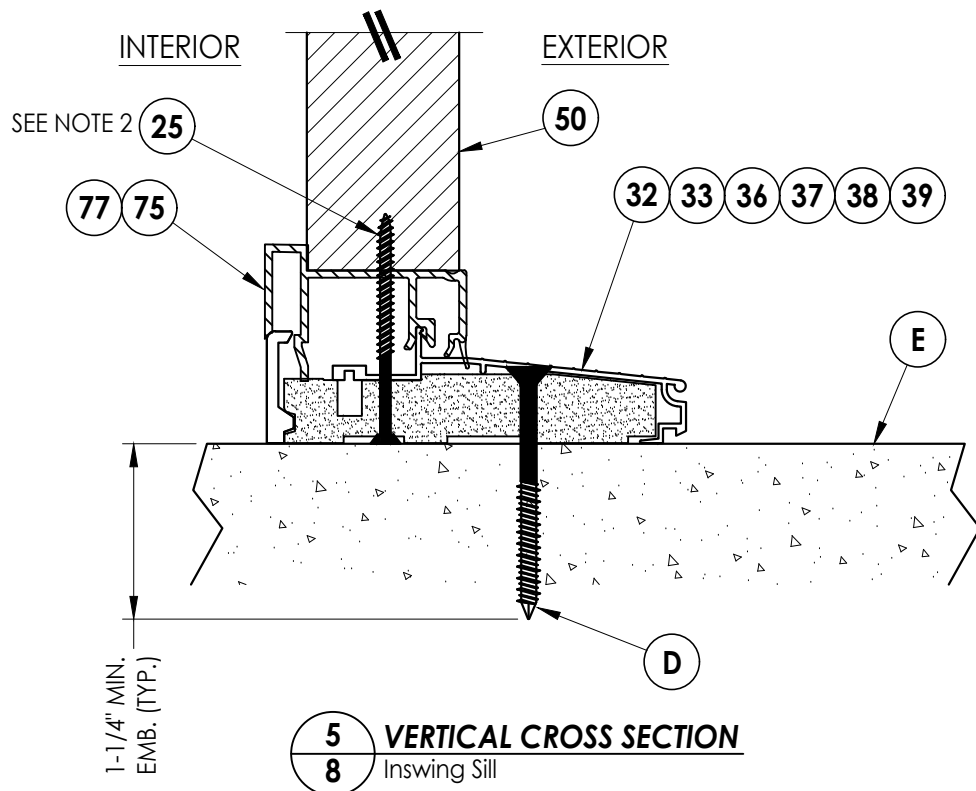
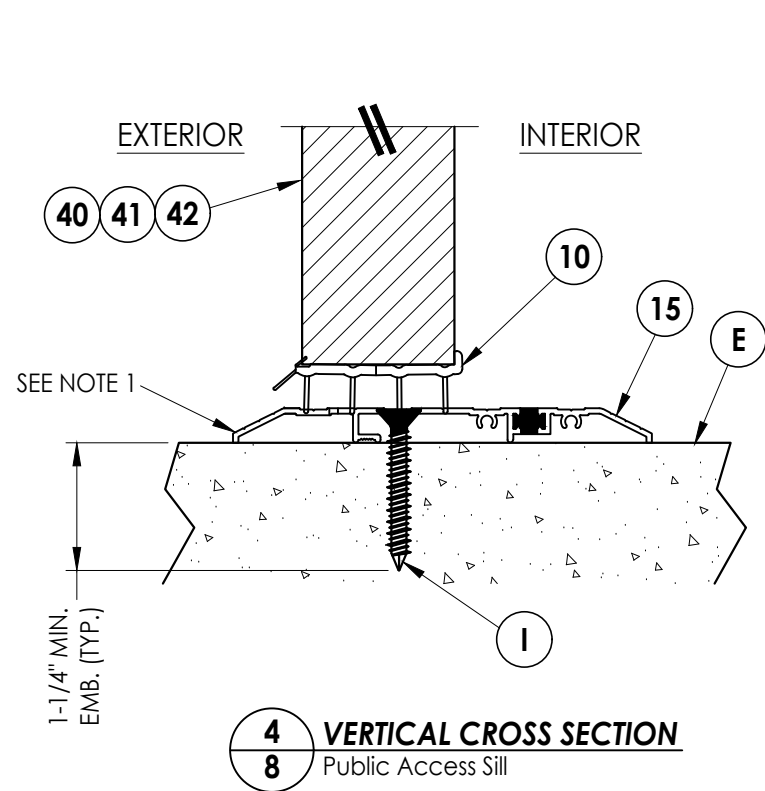
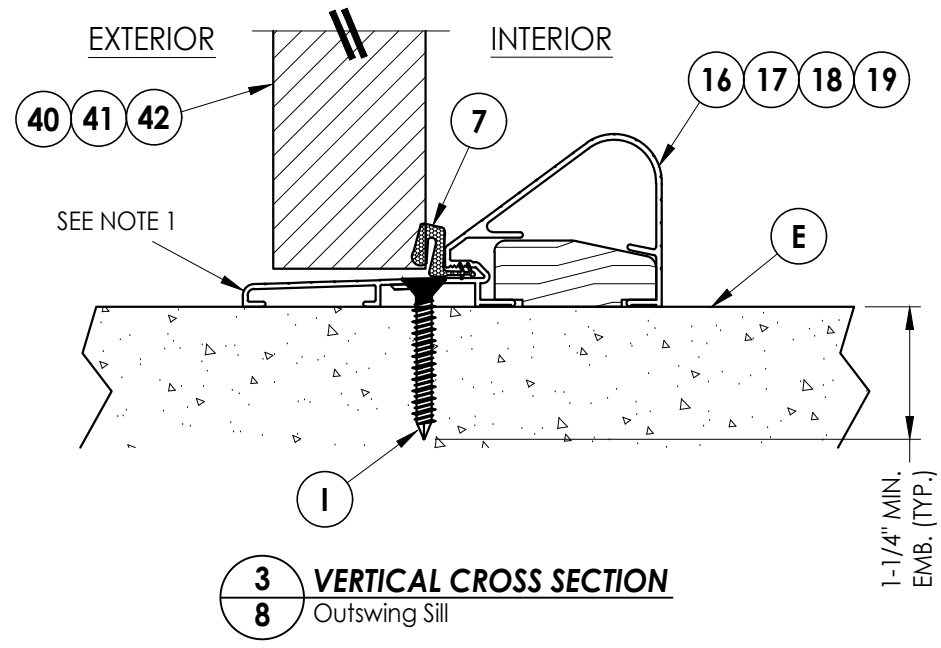
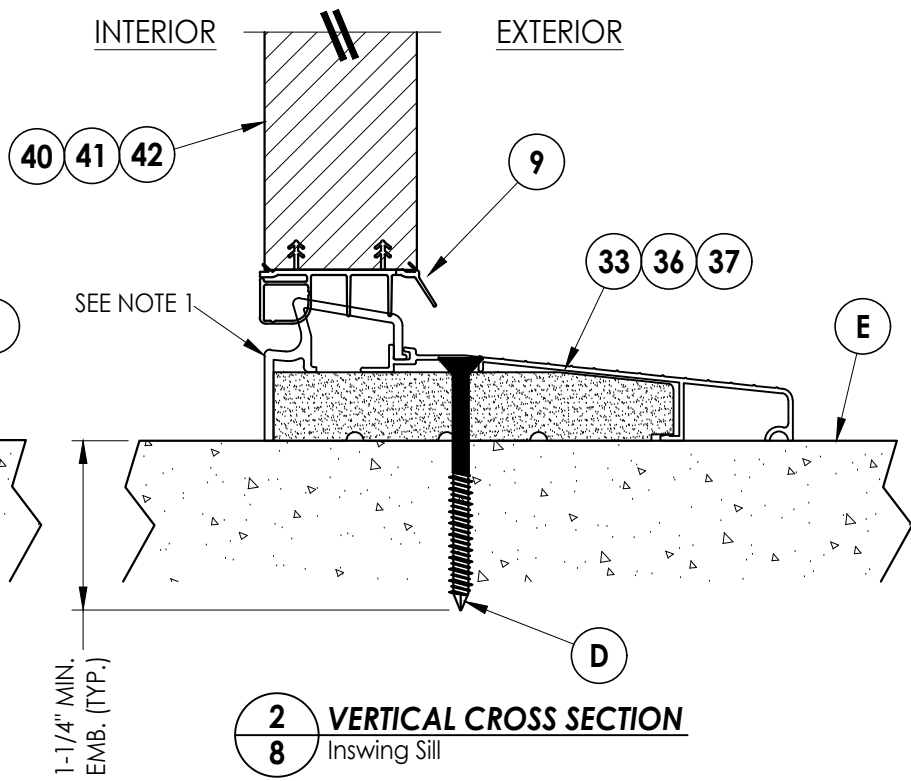
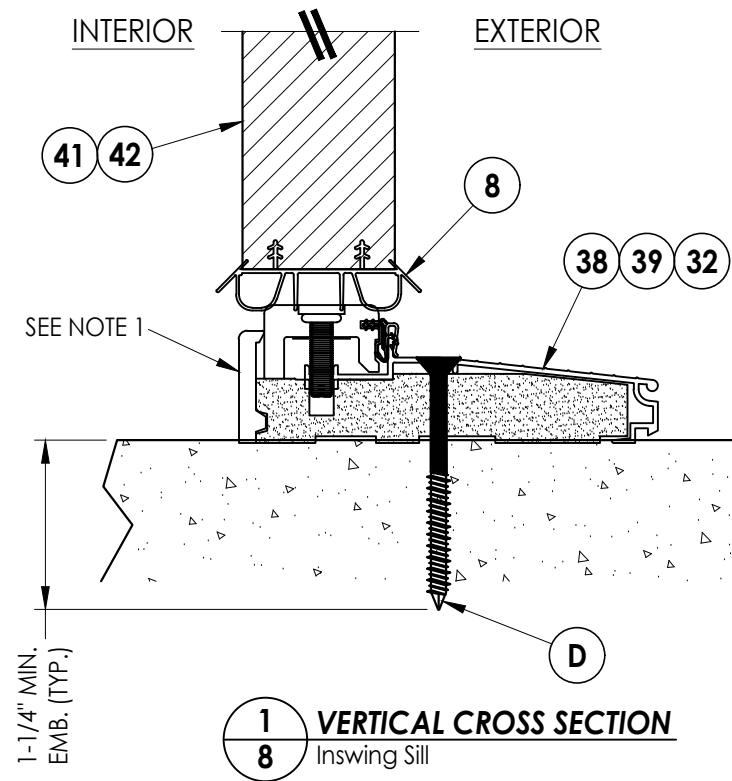


2 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		THERMA-TRU FIBERGLASS DOOR		DATE: 8/10/16	
R ^W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)		SCALE: N.T.S.	
				DWG. BY: JK	
				CHK. BY: LFS	
				DRAWING NO.: FL-20470.13	
				SHEET 7 OF 14	
				REVISIONS	
				NO. DATE	
				3 7/25/23 UPDATE TO 8TH ED. (2023) FBC LFS	
				2 7/22/20 UPDATE TO 7th ED (2020) FBC LFS	
				1 7/14/17 UPDATE TO 6TH ED. (2017) FBC JK	
				BY	

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- Notes:
- Sill Item #'s 16, 32, 33, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
 - Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



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

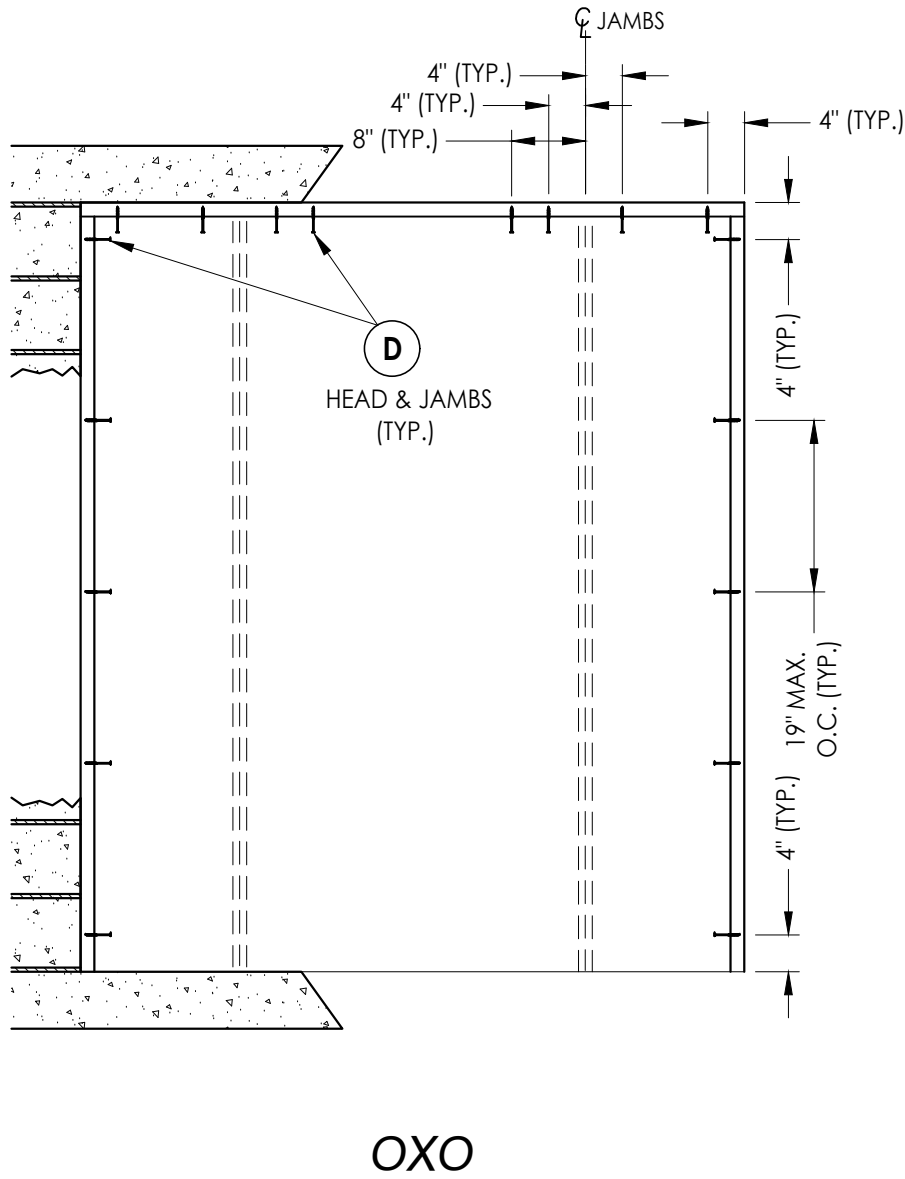
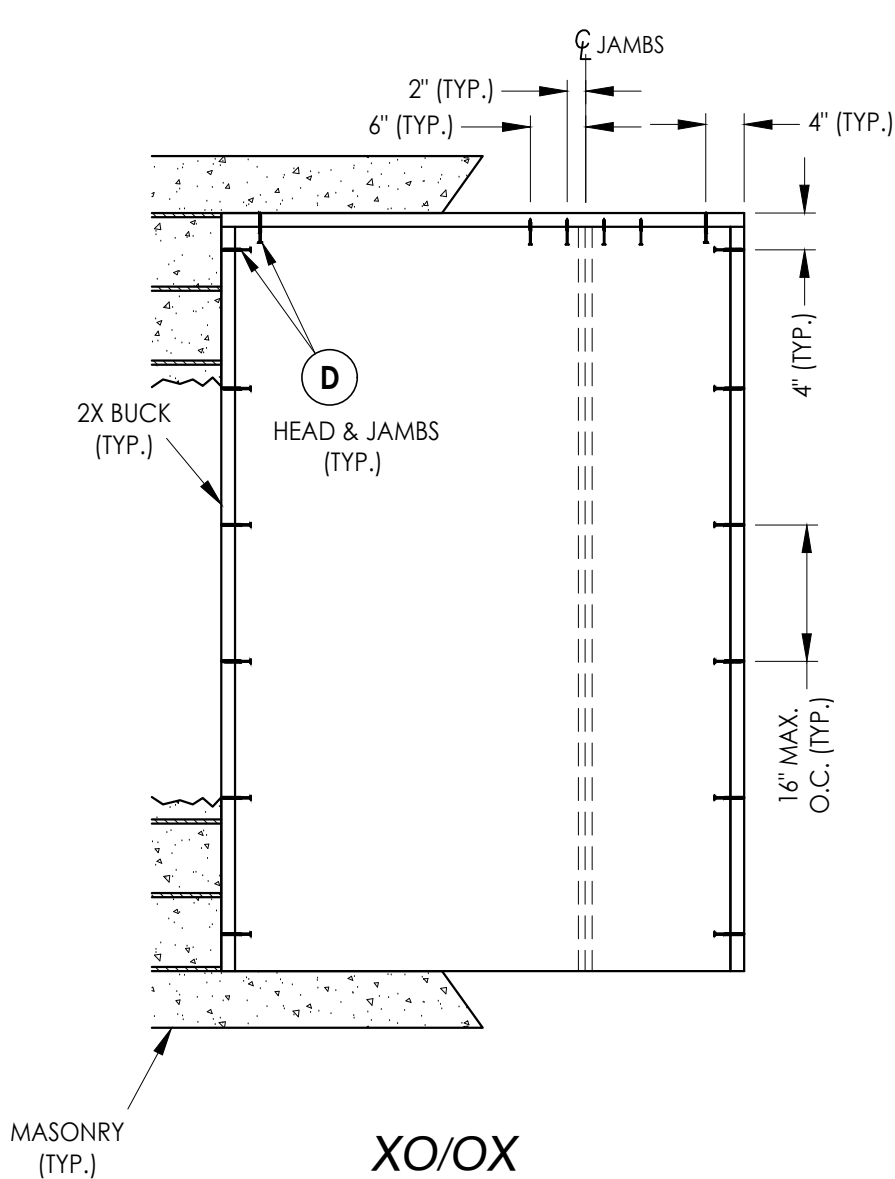
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS			
		BY	CHK	DATE	DESCRIPTION
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2	7/22/20	LFS			UPDATE TO 7th ED (2020) FBC
1	7/14/17	JK			UPDATE TO 6TH ED. (2017) FBC

DATE: 8/10/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20470.13
SHEET 8 OF 14



2X BUCK ANCHORING

DATE: 8/10/16	
SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.: FL-20470.13	
SHEET	9 OF 14

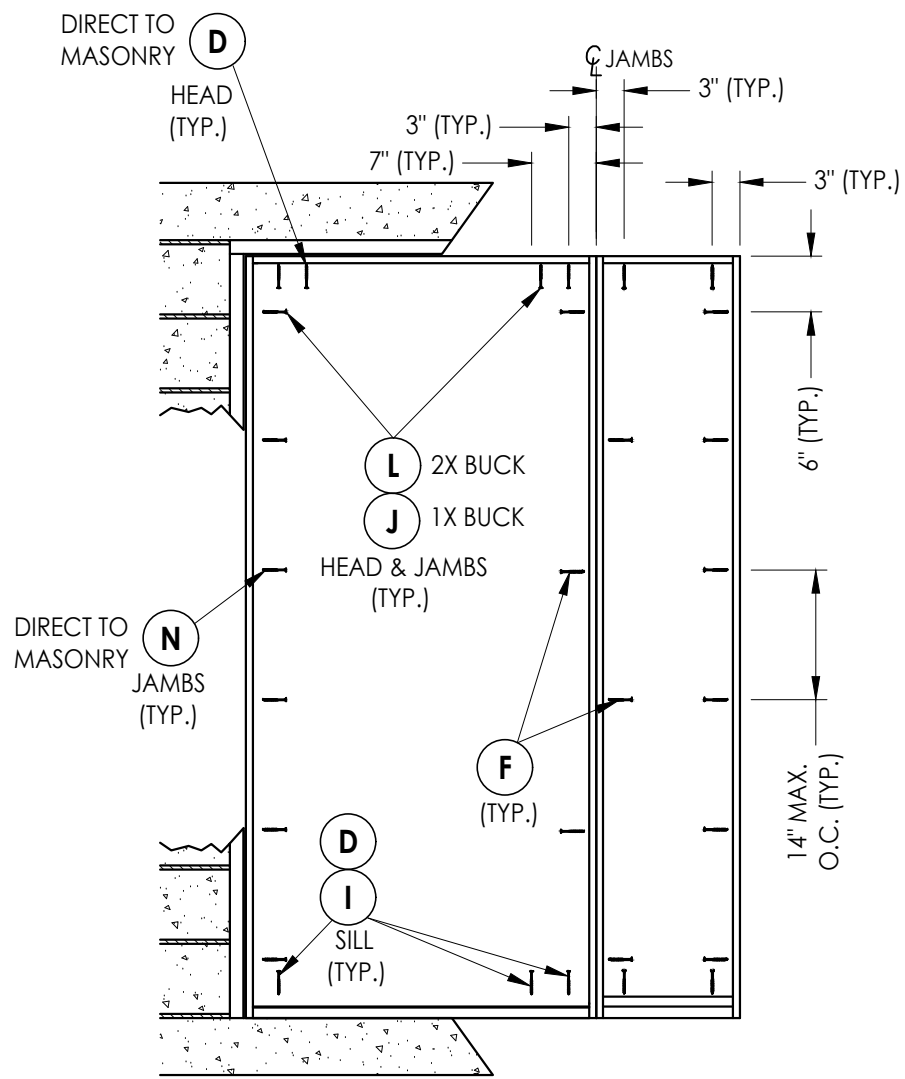
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2	7/22/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK
		BY

PRODUCT:	THERMA TRU FIBERGLASS DOOR
	PART OR ASSEMBLY: BUCK ANCHORING

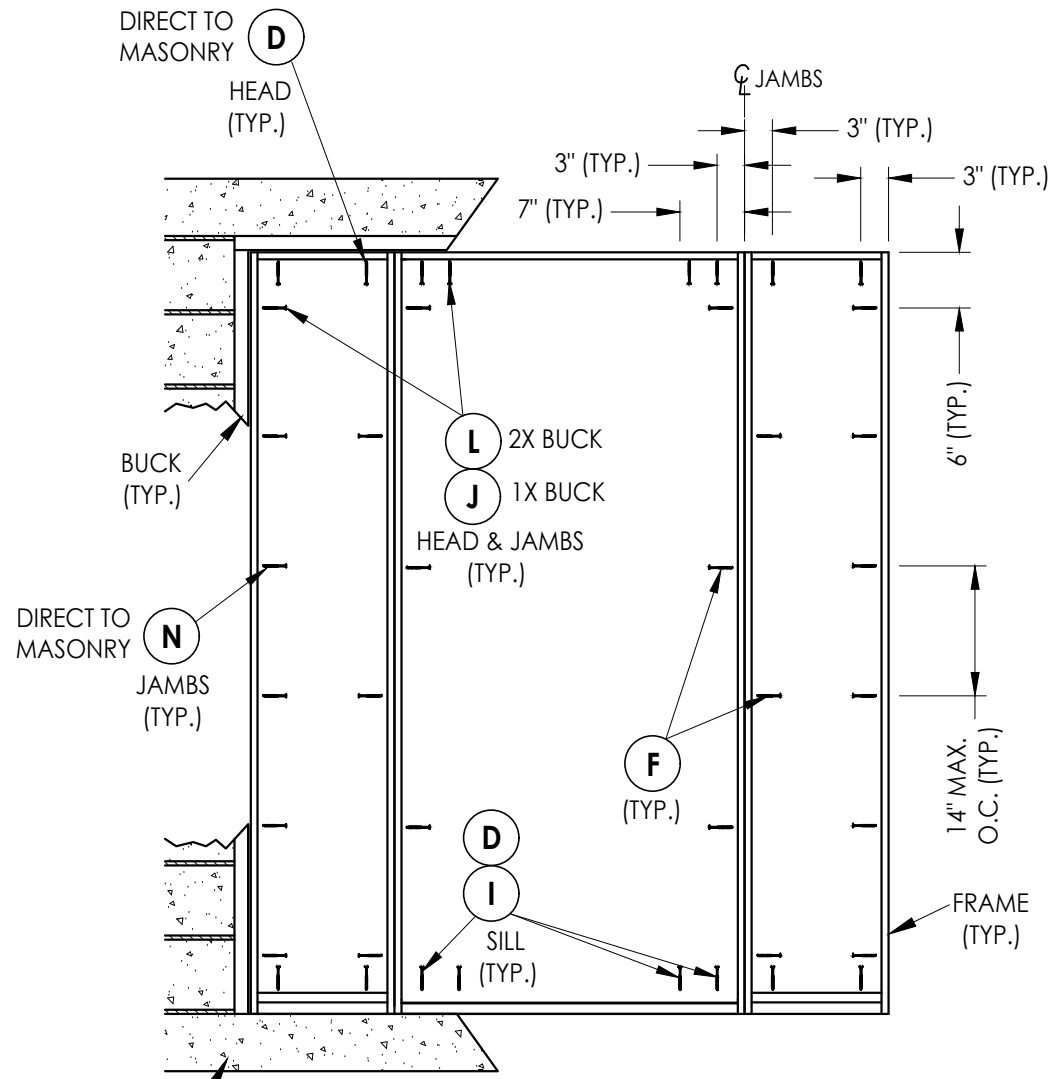
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Phone No.: 813.659.9197
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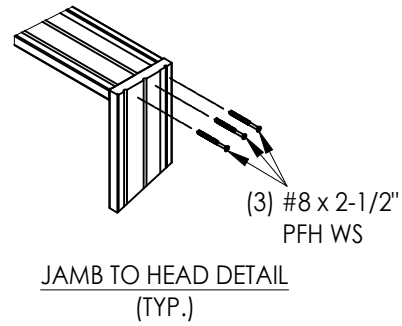
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XO/OX



OXO



FRAME ANCHORING

PRODUCT:		THERMA TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		FRAME ANCHORING	
NO.	DATE	REVISIONS	
		BY	JK
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	7/22/20	UPDATE TO 7th ED (2020)	FBC LFS
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DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

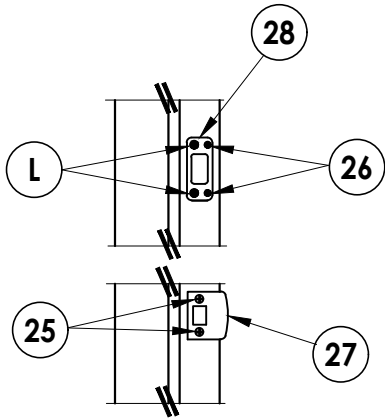
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SHEET 10 OF 14

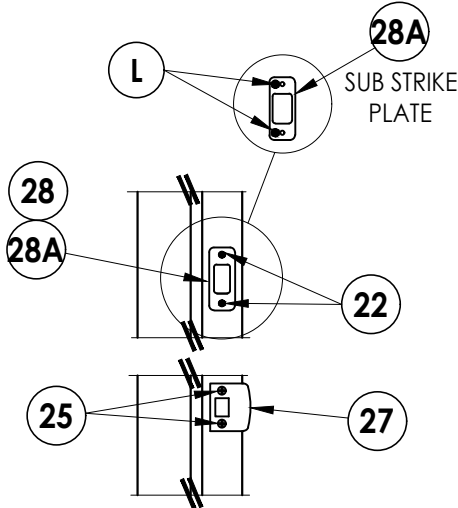
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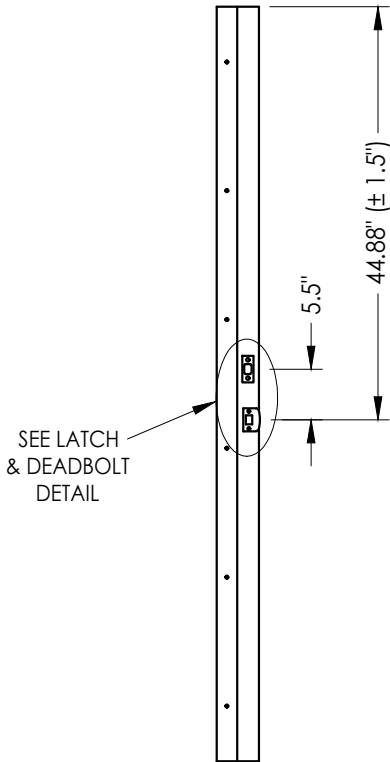
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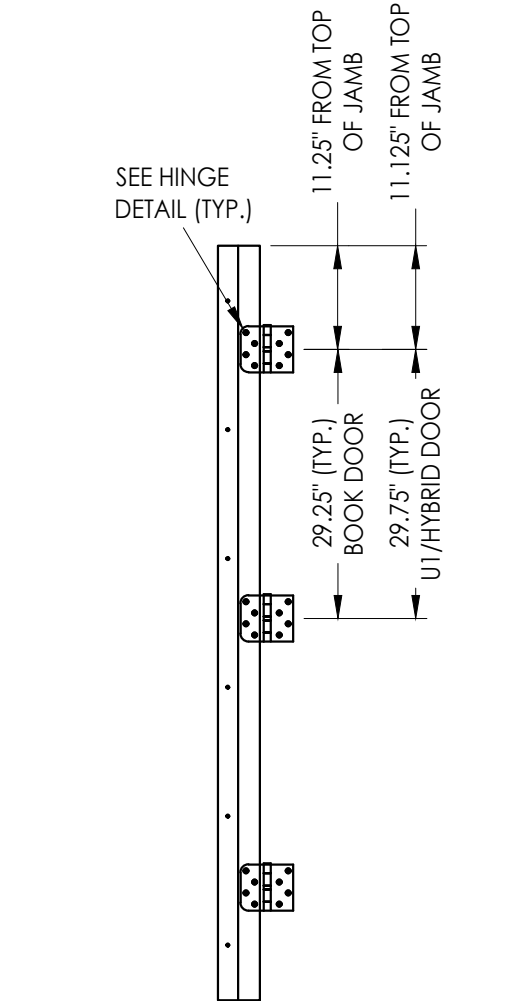
LATCH & DEADBOLT DETAIL
Kwikset



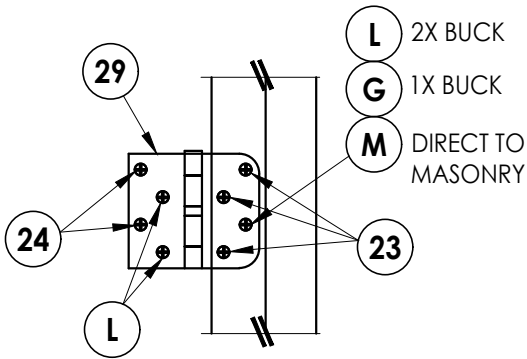
LATCH & DEADBOLT DETAIL
Schlage



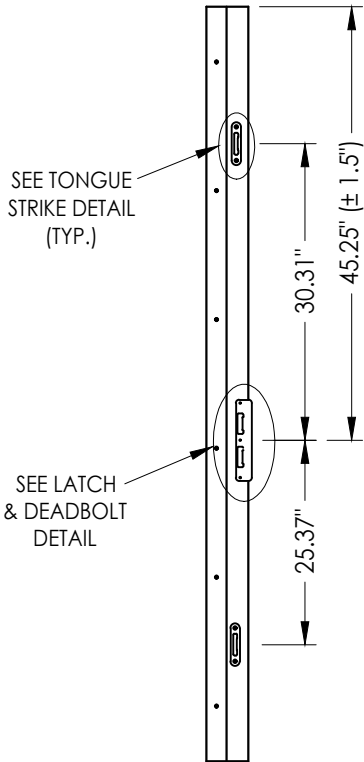
STRIKE JAMB
Latch and Deadbolt



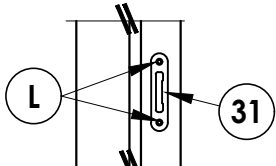
HINGE JAMB



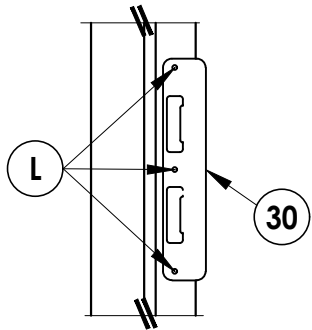
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

LATCH & DEADBOLT STRIKE DETAILS

MULTIPOINT LOCK STRIKE DETAILS

REVISIONS		NO		DATE		BY	
		3		7/25/23		LFS	
		2		7/22/20		LFS	
		1		7/14/17		JK	

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20470.13

SHEET 11 OF 14

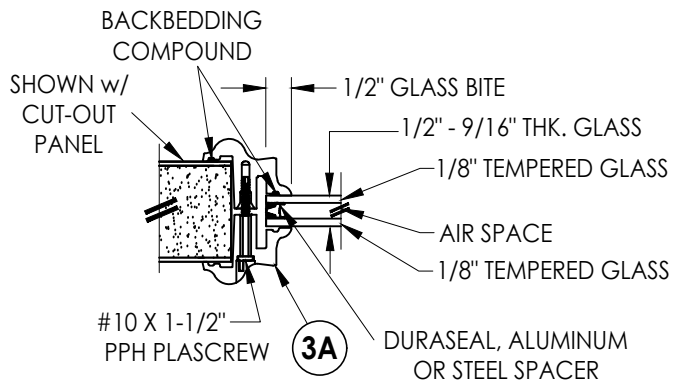
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

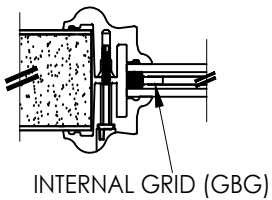
PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HARDWARE DETAILS

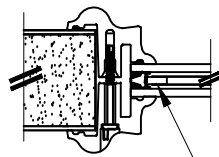
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G1 GLAZING DETAIL
BTS Lite Frame
Sidelites

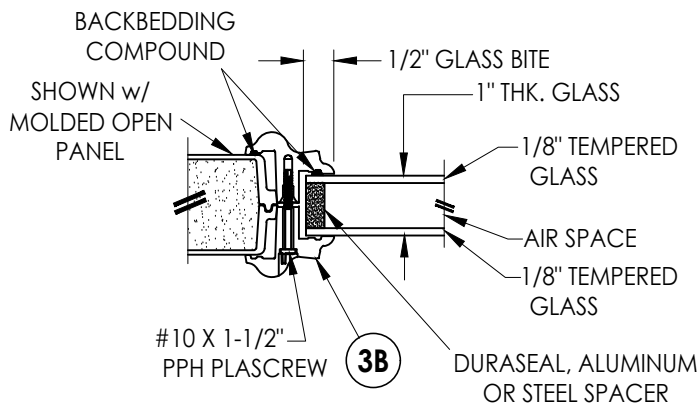


INTERNAL GRID (GBG)

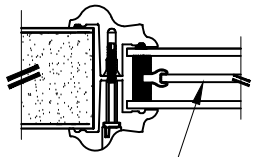


INTERNAL GRID (GBG)
(Optional Aluminum Spacer)

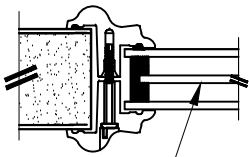
9/16" INSULATED GLASS INSERT OPTIONS



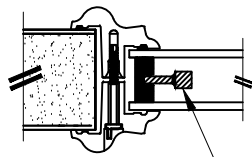
G2 GLAZING DETAIL
BTS Lite Frame
Sidelites



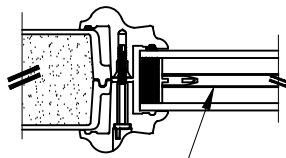
DECORATIVE INSERT



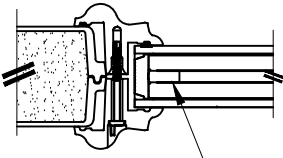
PRIVACY INSERT



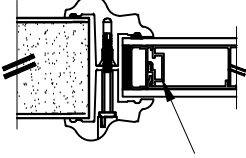
WROUGHT IRON INSERT



INTERNAL GRID (GBG)

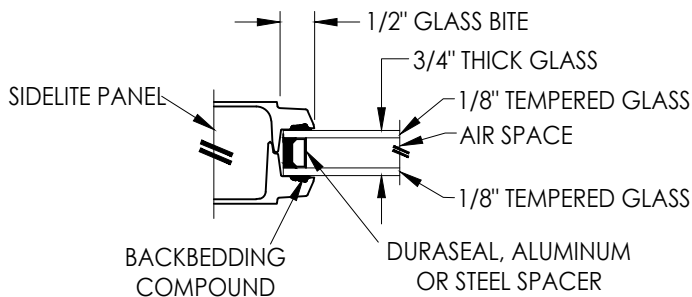


INTERNAL GRID (GBG)
(Optional Aluminum Spacer)

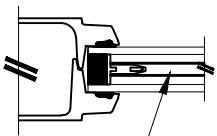


MINI BLIND
(Aluminum Spacer)

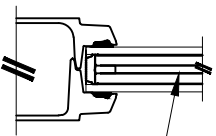
1" INSULATED GLASS INSERT OPTIONS



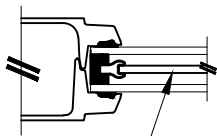
G3 GLAZING DETAIL
Flush Glazing
Sidelites



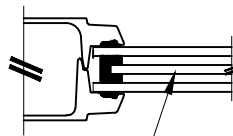
INTERNAL GRID (GBG)



INTERNAL GRID (GBG)

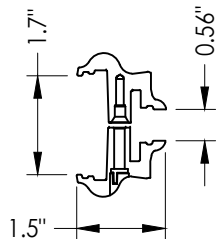


DECORATIVE INSERT

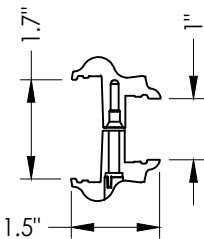


PRIVACY INSERT

3/4" INSULATED GLASS INSERT OPTIONS



3A BTS LITE FRAME
1/2" & 9/16" Glazing



3B BTS LITE FRAME
1" Glazing

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

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

NO.	DATE	REVISIONS
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/22/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 8/10/16

SCALE: N.T.S.

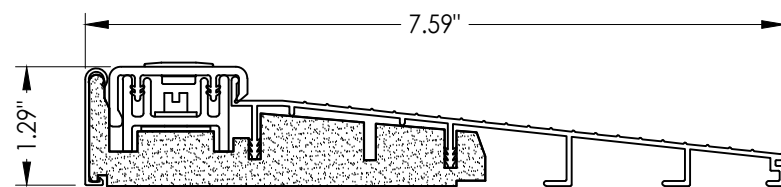
DWG. BY: JK

CHK. BY: LFS

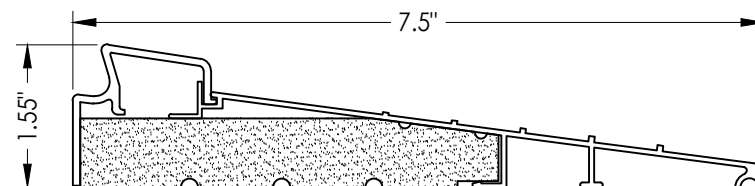
DRAWING NO.:

FL-20470.13

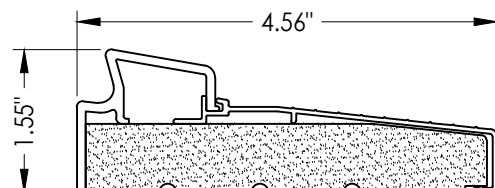
SHEET 12 OF 14



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

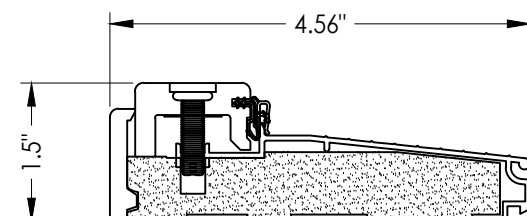


37 **INSWING THRESHOLD**
Inswing Basic Fixed 7-1/2" Sill

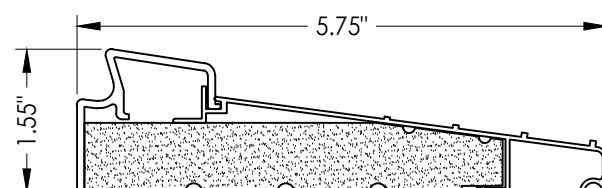


33 INSWING THRESHOLD

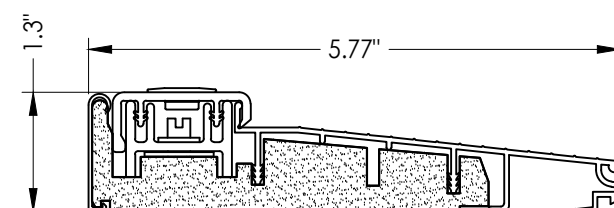
Inswing Basic Fixed Sill



38 INSWING THRESHOLD

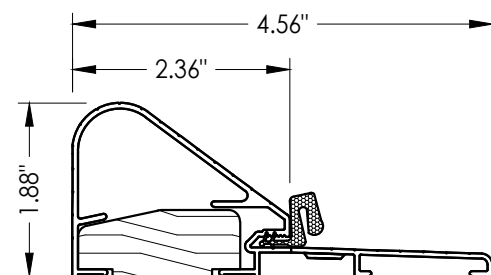


36 **INSWING THRESHOLD**
Inswing Basic Fixed 5-3/4" Sill

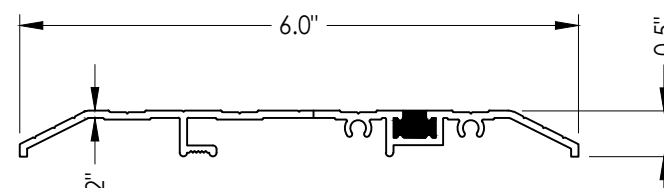


39 INSWING THRESHOLD

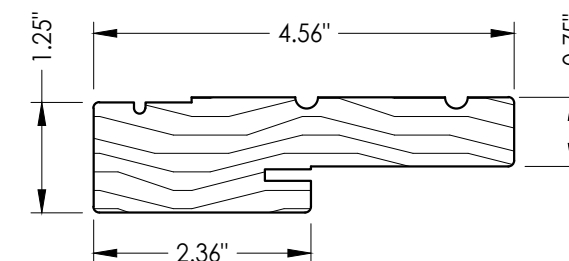
Inswing Basic Composite Adjustable Sill



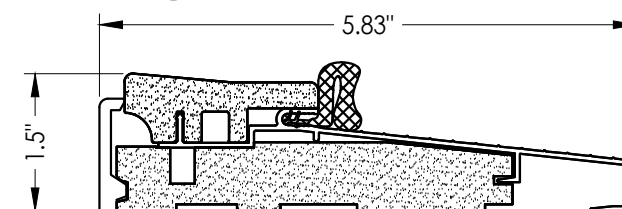
19 COASTAL OUTSWING THRESHOLD



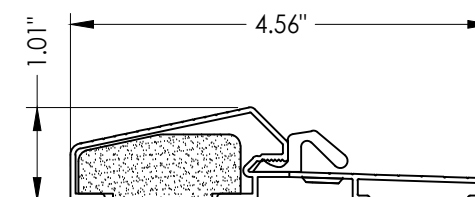
15 PUBLIC ACCESS THRESHOLD



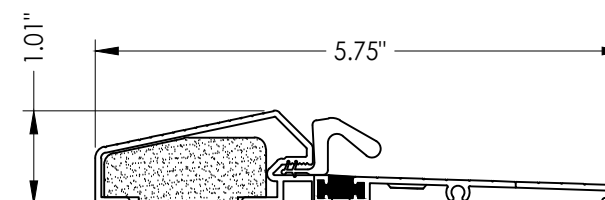
1 WOOD JAMB



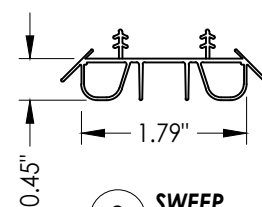
16 OUTSWING THRESHOLD



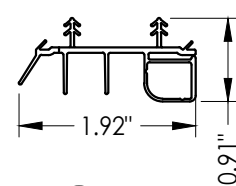
17 **OUTSWING THRESHOLD**
Composite / Aluminum Sill



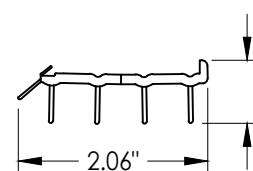
18 **OUTSWING THRESHOLD**
Composite / Aluminum Sill
(Thermal Break)



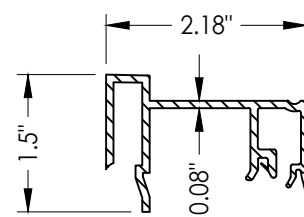
8 SWEEP



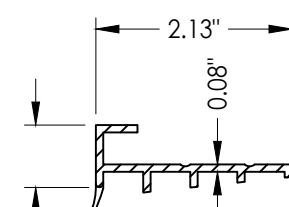
9 SWEEP



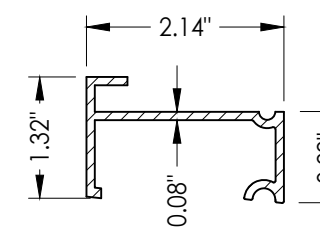
10 **SWEEP**



75 **SIDELITE SPACER**
Inswing



76 **SIDELITE SPACER**
Outswing



77 **SIDELITE SPACER**
Inswing
Moderate Climate Threshold

[illegible]

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

R^{gW} BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY: _____

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	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	36	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" 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	ADA THRESHOLD	ALUM	60	SIDELITE (HALF LITE)	-
16	OUTSWING THRESHOLD	ALUM/COMP	75	SIDELITE SPACER (INSWING)	-
17	OUTSWING THRESHOLD	ALUM/COMP	76	SIDELITE SPACER (OUTSWING)	-
18	OUTSWING THRESHOLD	ALUM/COMP	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	-
19	COASTAL OUTSWING THRESHOLD	ALUM/ WOOD			
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 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.

						Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					
PRODUCT:						THERMA TRU FIBERGLASS DOOR					
PART OR ASSEMBLY:						BILL OF MATERIALS					
	3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS						
	2	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS						
	1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK						
	NO.	DATE			BY						
						REVISIONS					
DATE: 8/10/16											
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DWG. BY: JK											
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DRAWING NO.: FL-20470.13											
SHEET 14 OF 14											