



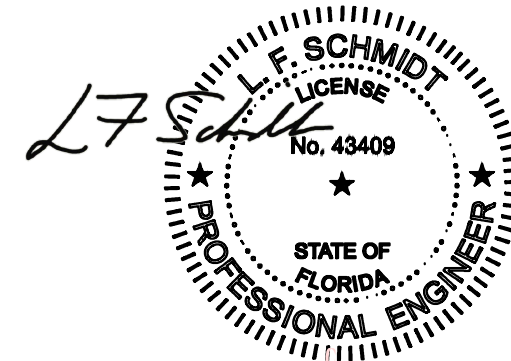
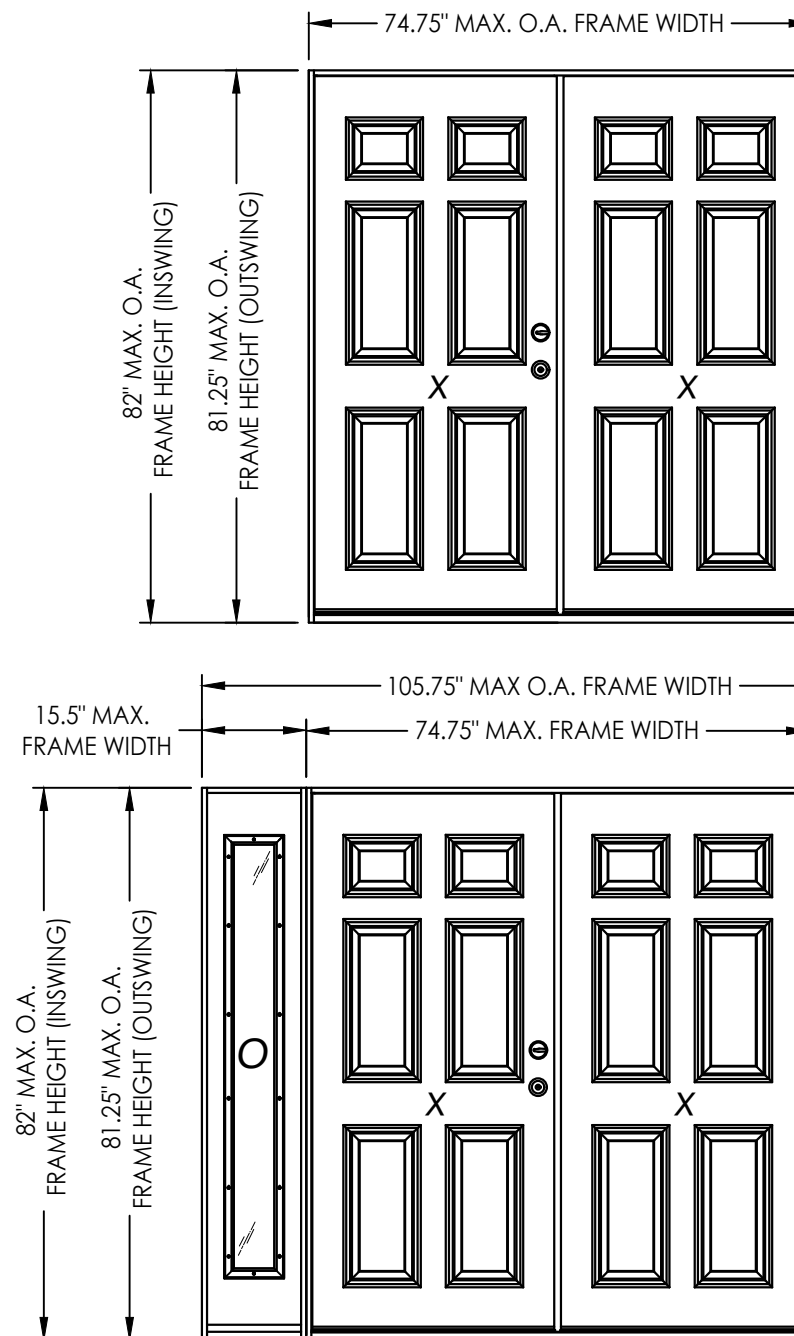
Fiber-Classic® & Smooth-Star®

**COMPOSITE EDGE
OPAQUE FIBERGLASS DOUBLE DOOR
w/ or w/out SIDELITES
INSWING/OUTSWING
"NON-IMPACT"**

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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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6	Horizontal & Vertical Cross Sections (1X Buck)
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9	Buck Anchoring
10	Frame Anchoring
11	Hardware Details
12	Glazing Details
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Digitally signed by Lyndon F Schmidt
Date: 2026.08.05 11:45:21 -04'00'

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

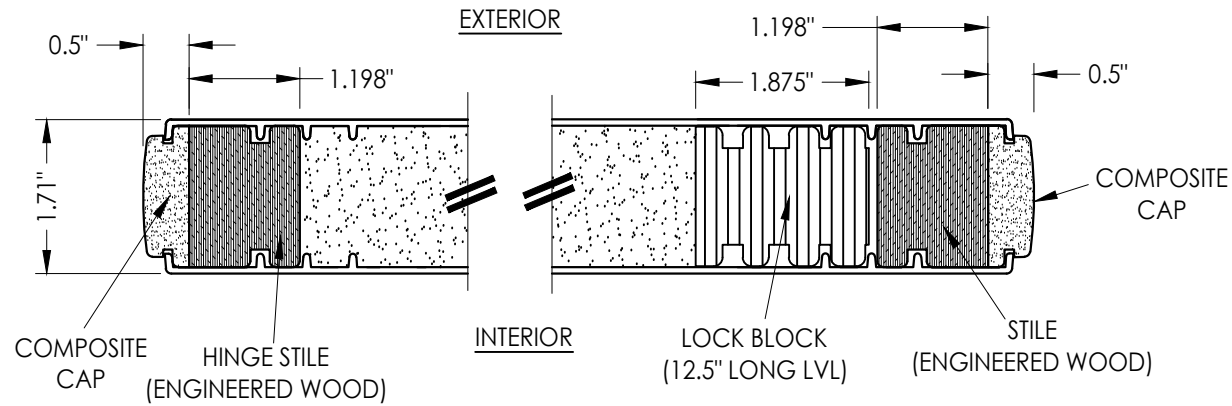
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

CONFIGURATION	ASTRAGAL	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX, OXXO	STANDARD	Latch & Deadbolt	+40.0	-45.0	+40.0	-40.0
XX, OXXO	STANDARD	Multipoint	+55.0	-55.0	+55.0	-55.0
XX, OXXO	COASTAL	Latch & Deadbolt	+55.0	-60.0	+60.0	-60.0
XX, OXXO	COASTAL	Multipoint	+55.0	-60.0	+67.0	-67.0

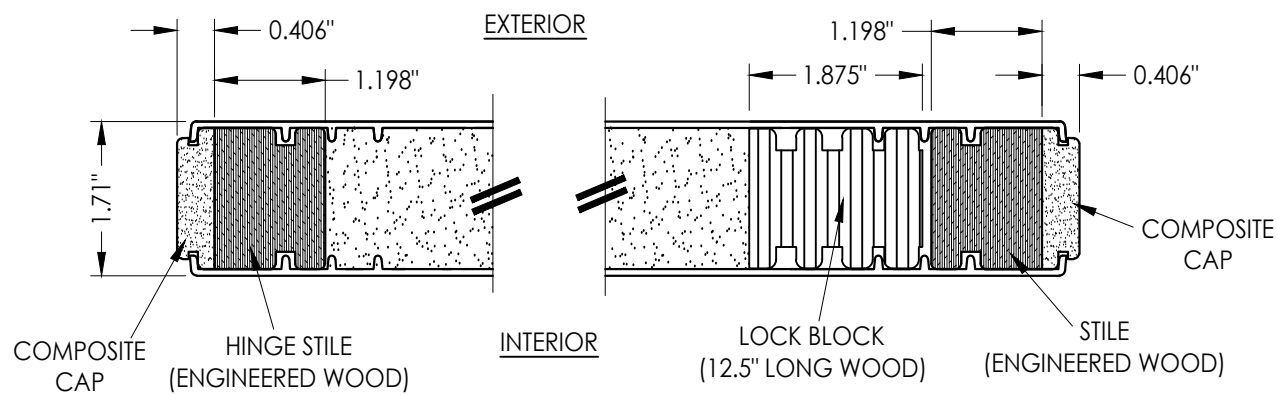
See Sheet 4 for Hardware Specifications

PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
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5	7/19/23	UPDATE TO 8TH ED. (2023)	FBC LFS
4	7/21/20	UPDATE TO 7th ED (2020)	FBC LFS
NO.	DATE		BY
REVISIONS			
DATE: 8/10/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20461.3			
SHEET 1 OF 14			

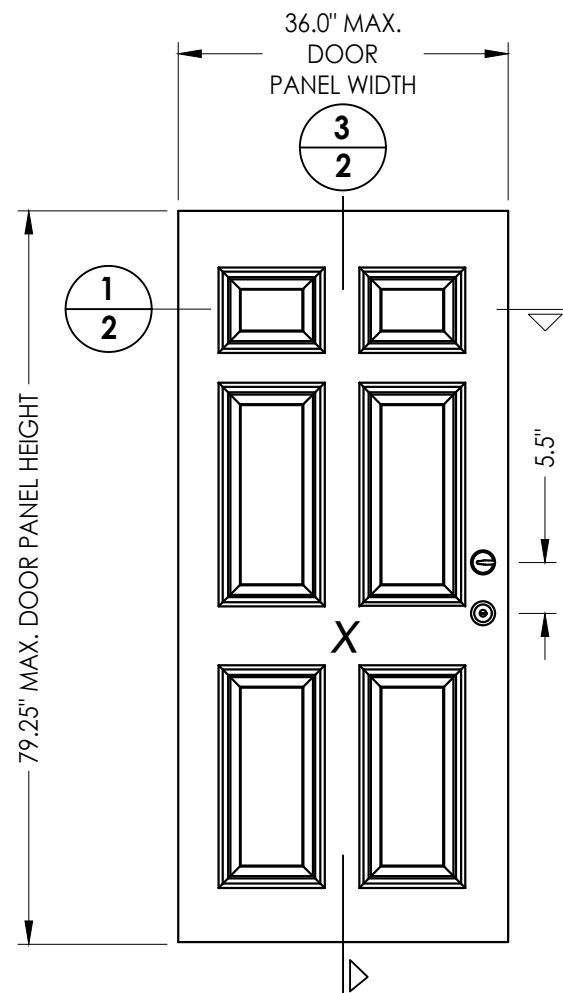
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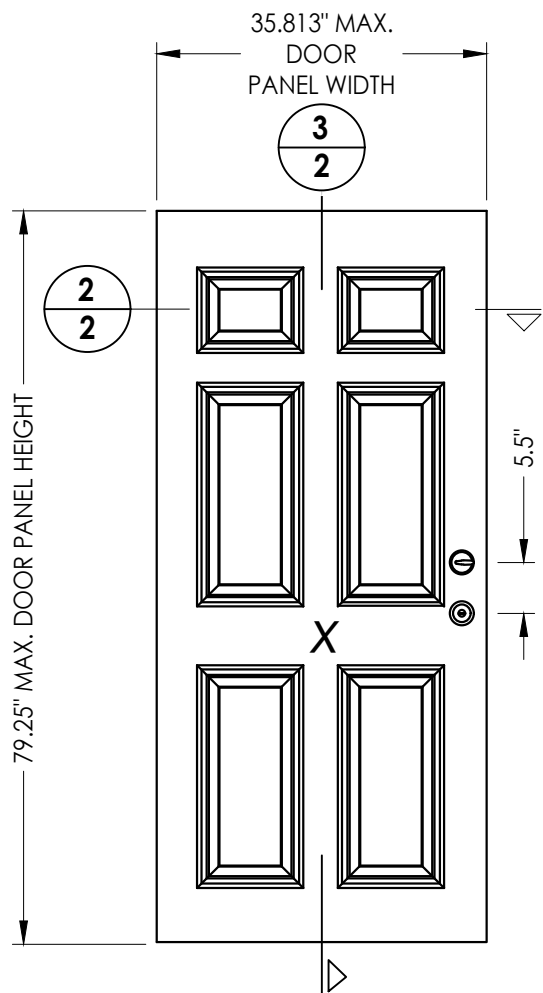
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2 HORIZONTAL CROSS SECTION



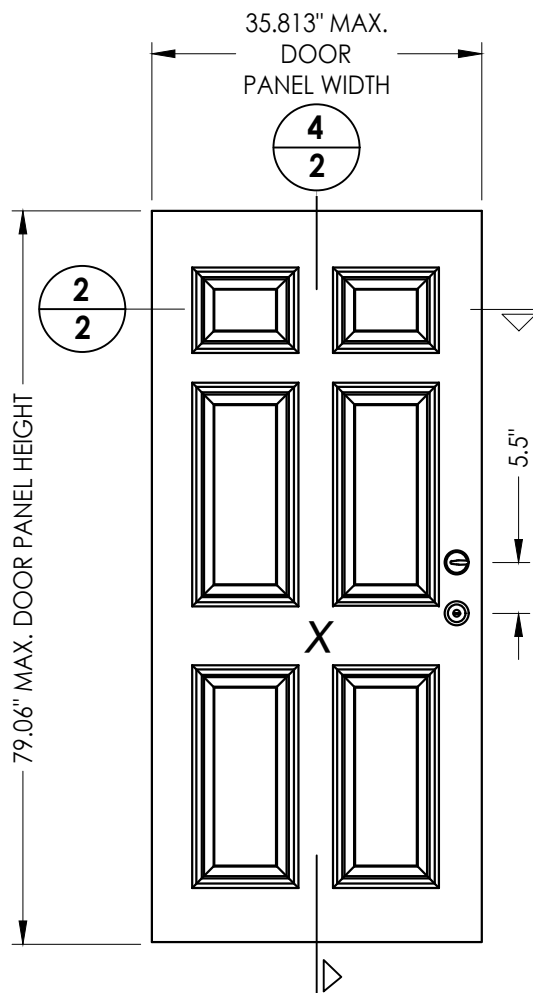
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2 HORIZONTAL CROSS SECTION



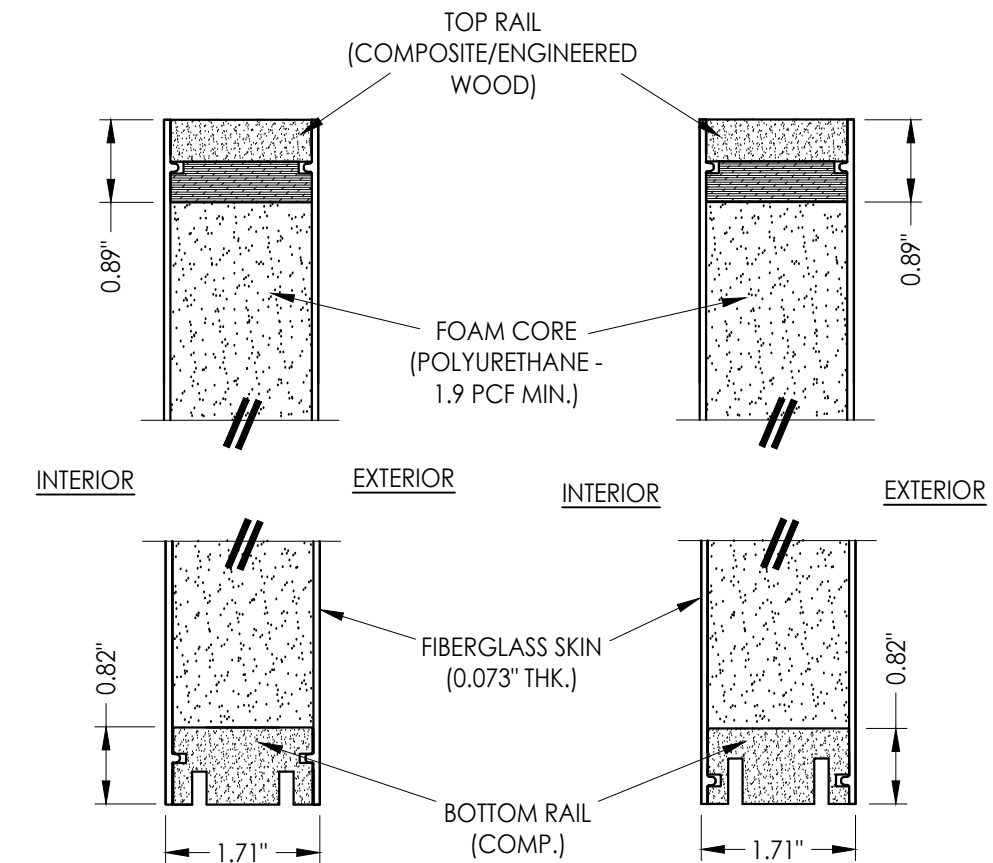
40 DOOR PANEL
BOOK



41 DOOR PANEL
Hybrid Door



42 DOOR PANEL
U1 Door



3
2 VERTICAL CROSS SECTION

4
2 VERTICAL CROSS SECTION

Documents Prepared By:
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FBPE Registry No. 9813

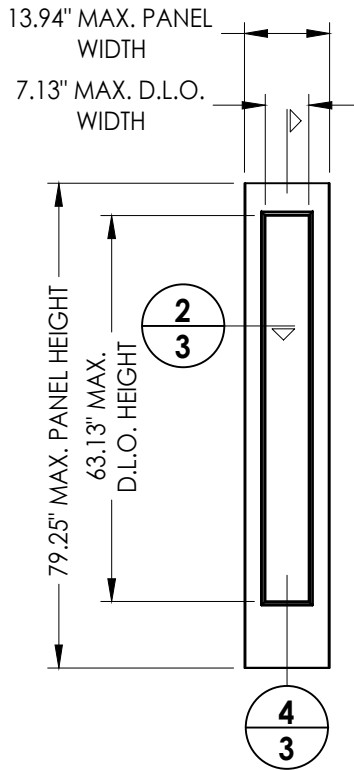
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

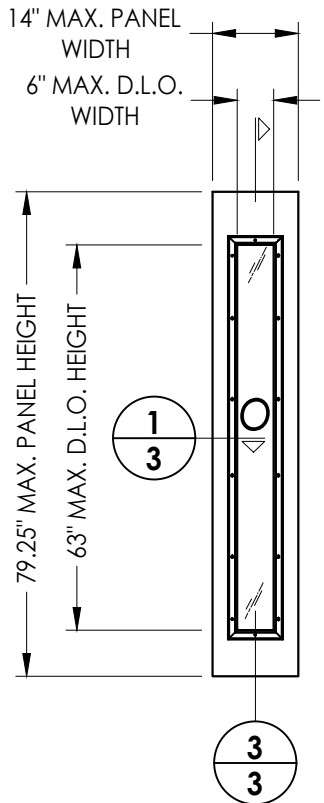
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5	7/19/23	UPDATE TO 8TH ED. (2023) FBC LFS
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DATE: 8/10/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-20461.3
SHEET 2 OF 14

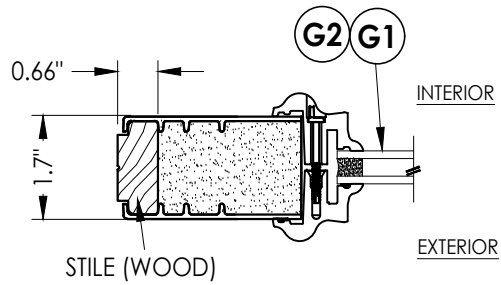
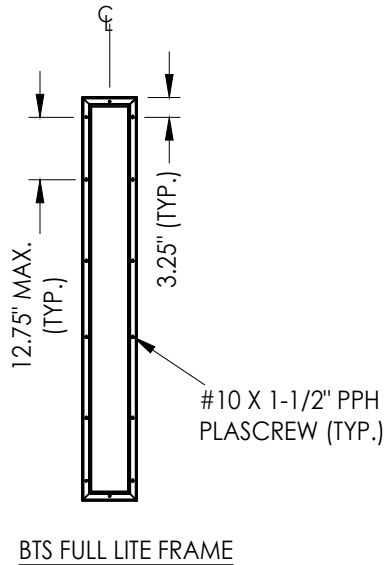
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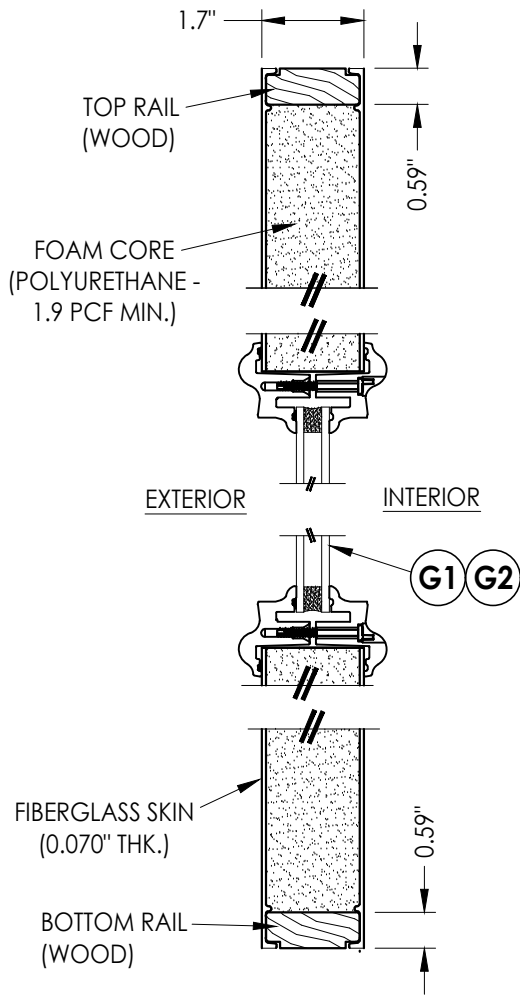
60 **SIDELITE PANEL**
Full Lite
Flush Glazed



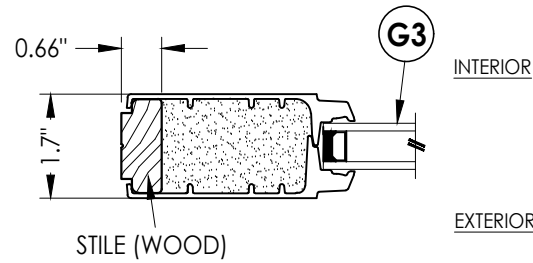
50 **SIDELITE PANEL**
Full Lite
Lip Lite



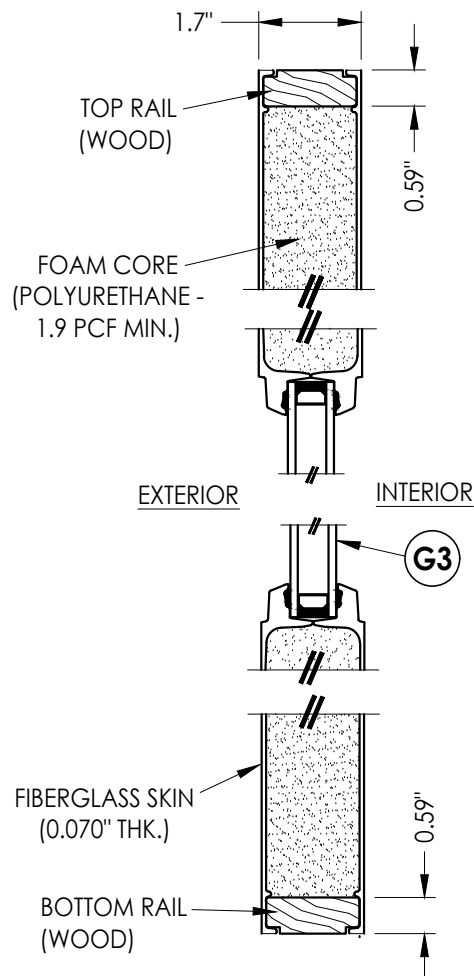
1 **HORIZONTAL CROSS SECTION**
3 Lip Lite Glazing



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



2 **HORIZONTAL CROSS SECTION**
3 Flush Glazing



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

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

PRODUCT: **THERMA-TRU
FIBERGLASS DOOR**

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/21/20	UPDATE TO 7th ED (2020) FBC LFS

DATE: 8/10/16

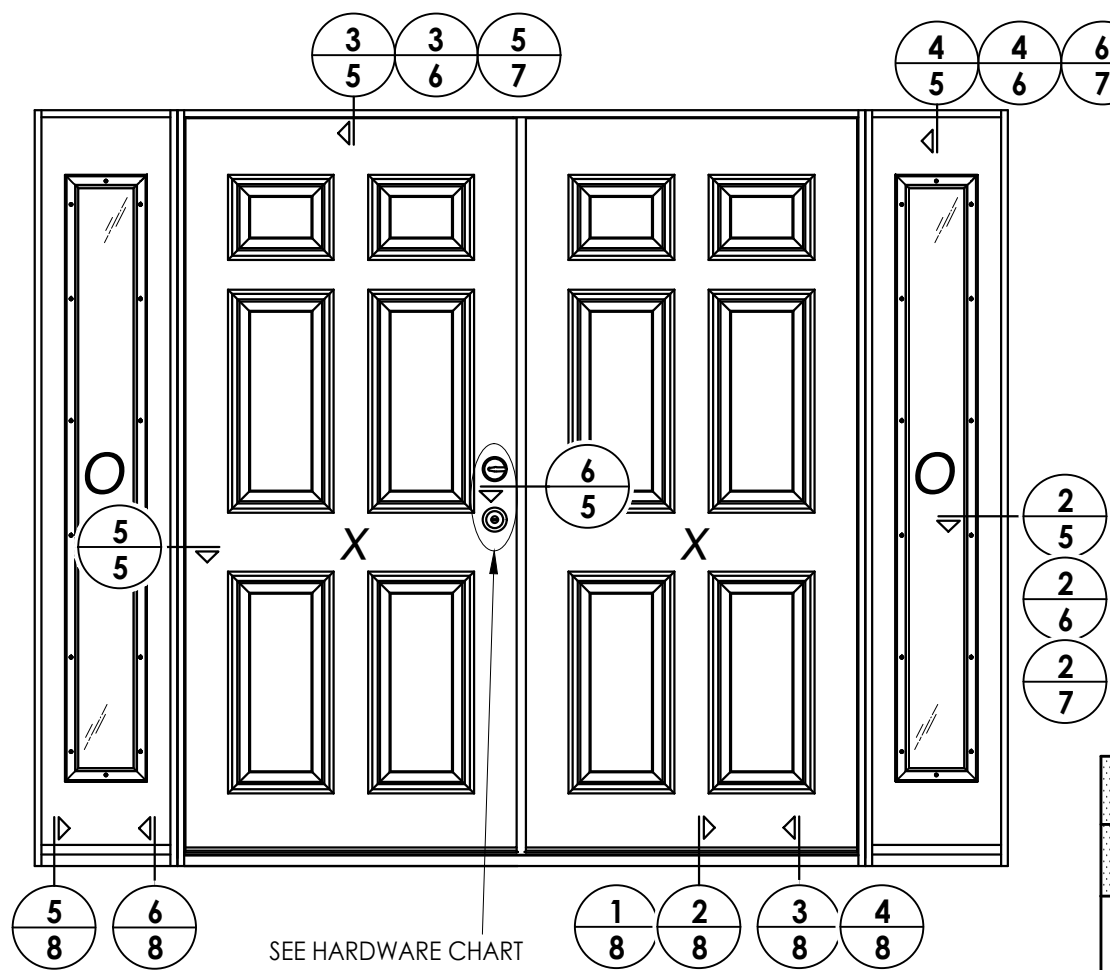
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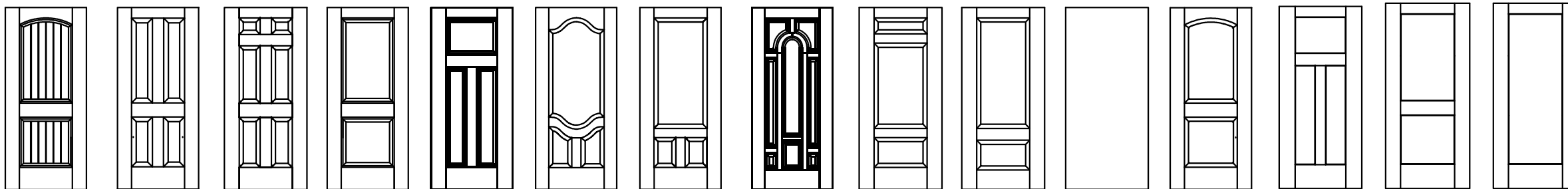
CHK. BY: LFS

DRAWING NO.: FL-20461.3

SHEET 3 OF 14



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)	



Fiber-Classic/Smooth-Star Door Panel Options

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

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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

6	7/03/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
5	7/19/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
4	7/21/20	UPDATE TO 7th ED	(2020)	FBC	LFS
NO.	DATE				BY
					REVISIONS

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

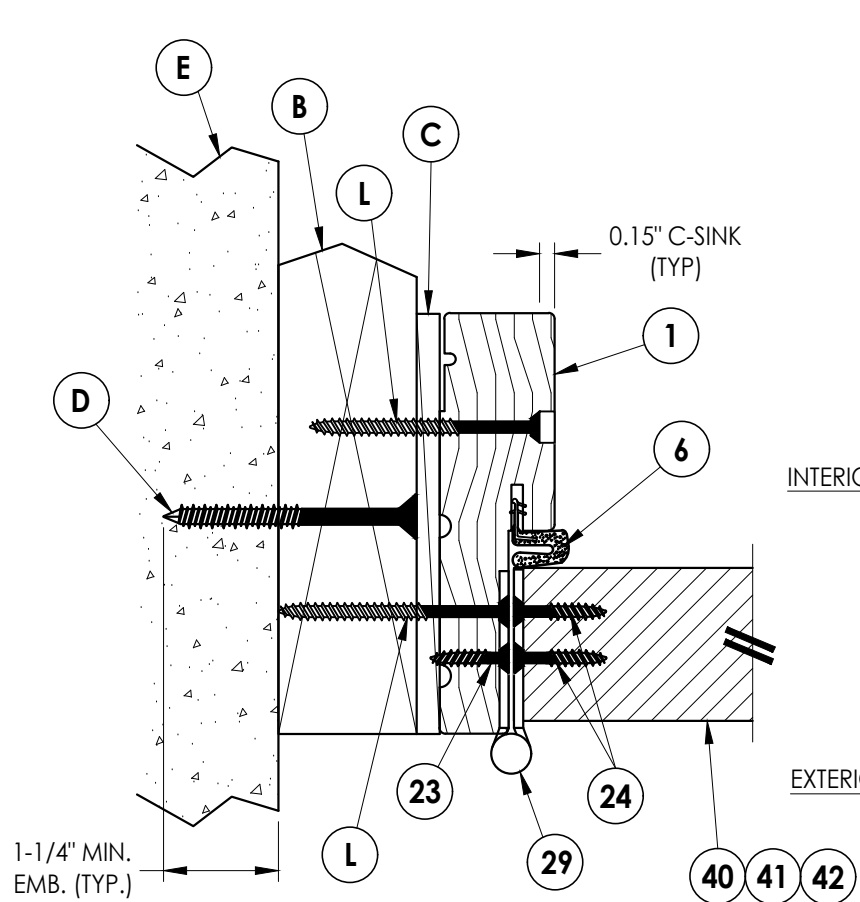
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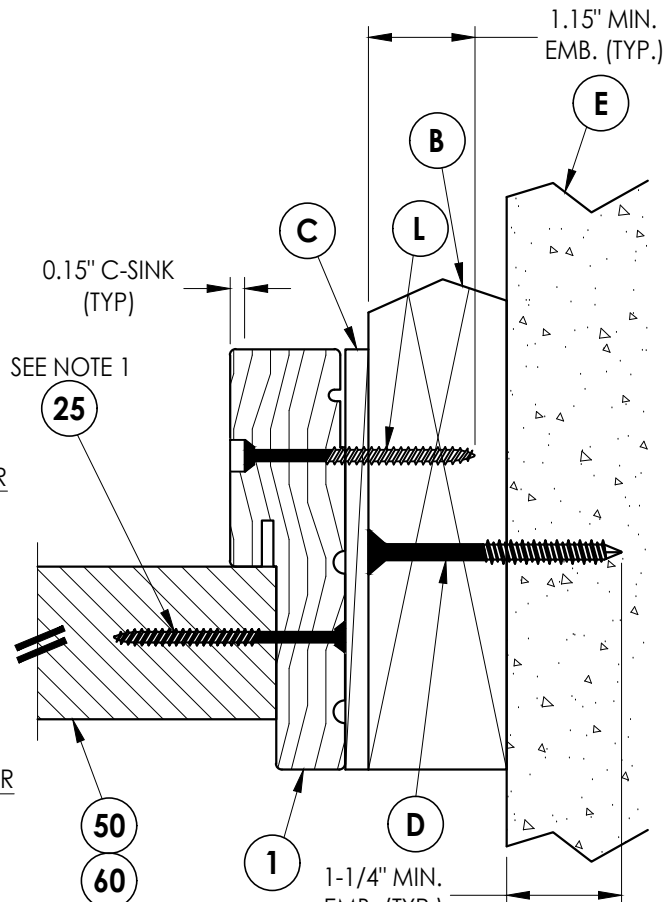
FL-20461.3

SHEET 4 OF 14

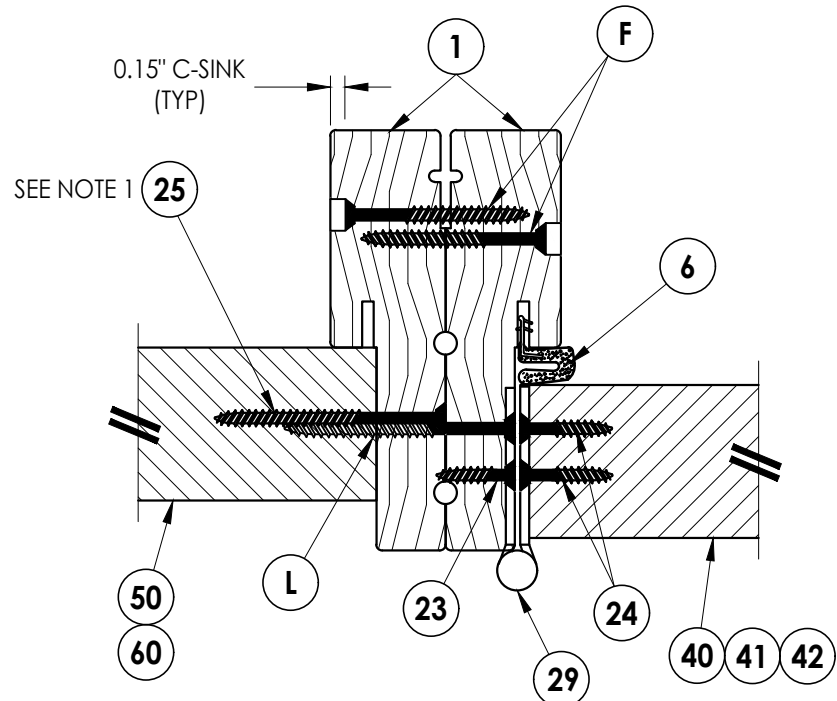
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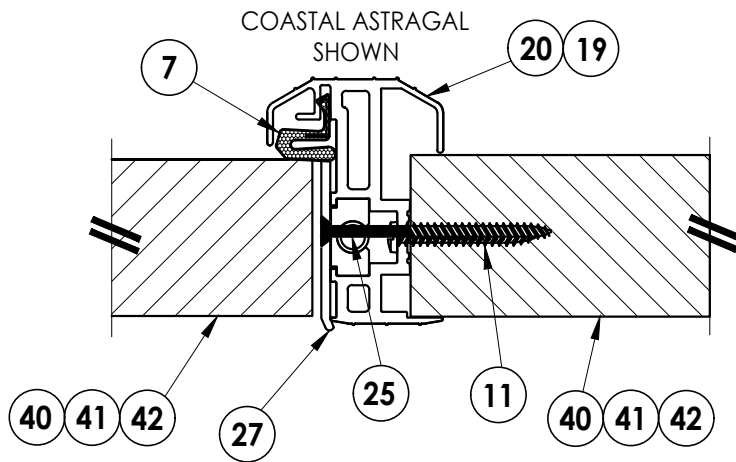
1 **HORIZONTAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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

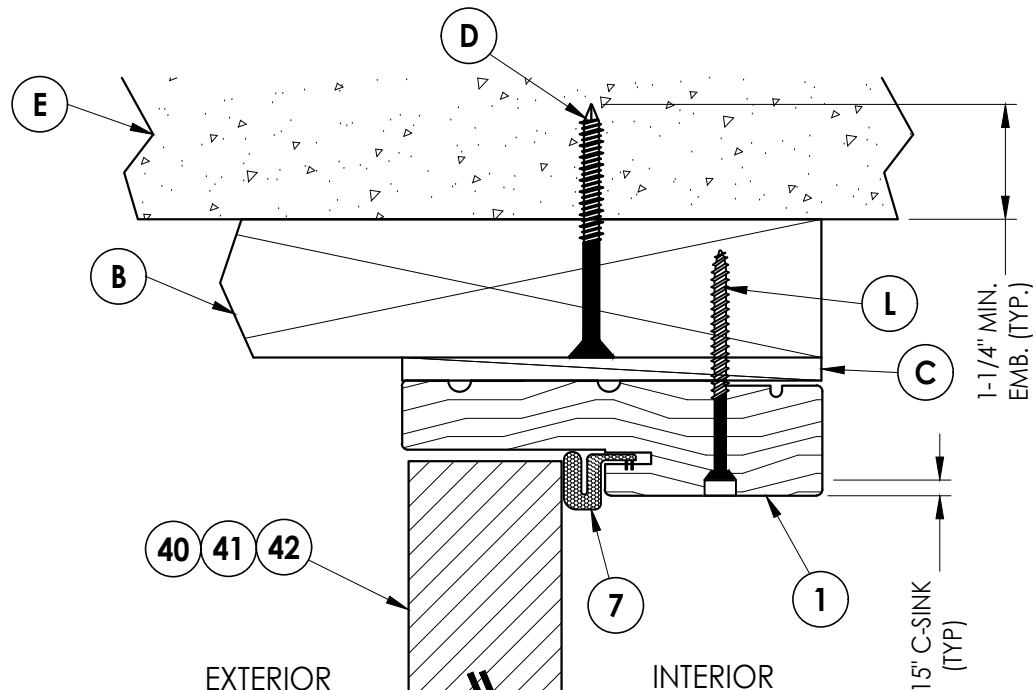


5 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)

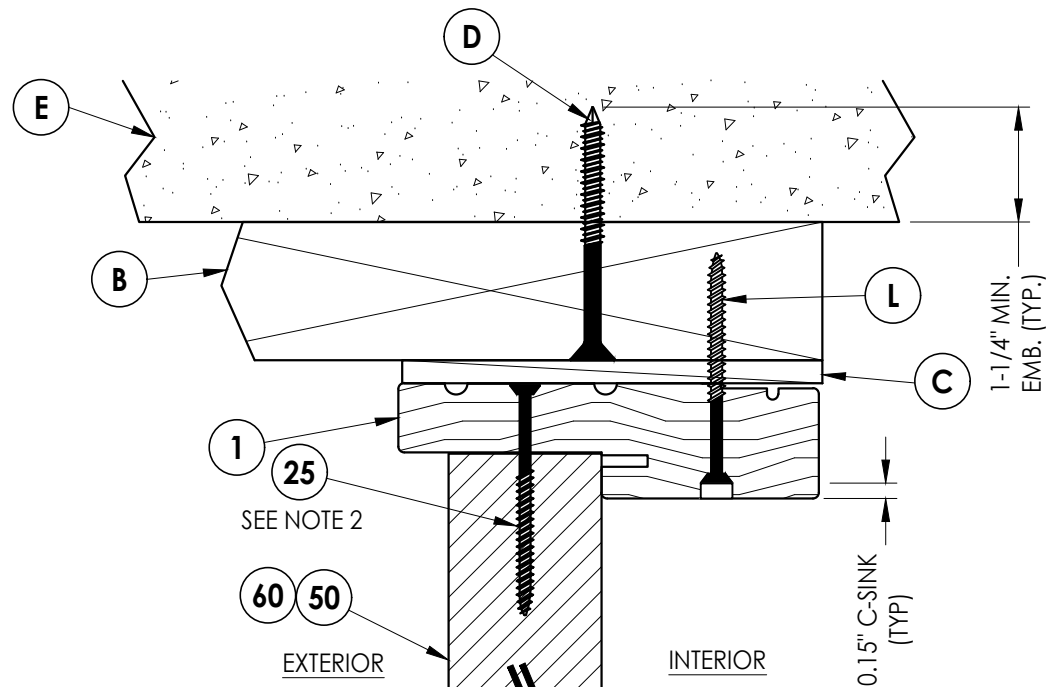


6 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)

- Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 4" 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)

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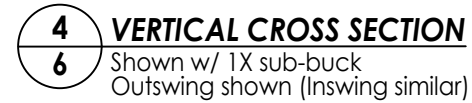
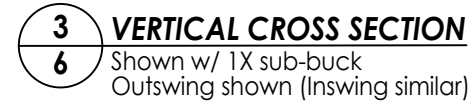
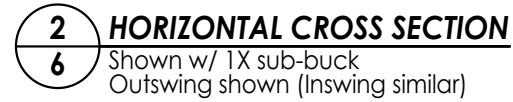
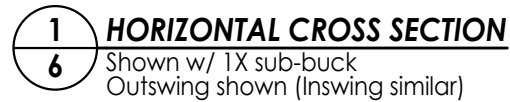
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/21/20	UPDATE TO 7th ED (2020) FBC LFS

DATE: 8/10/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20461.3
SHEET 5 OF 14

1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).

[illegible]

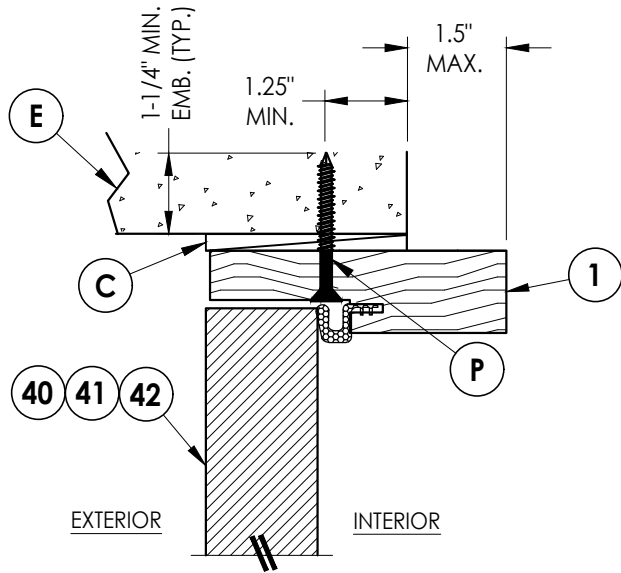
FL-20461.3

SHEET 6 OF 14

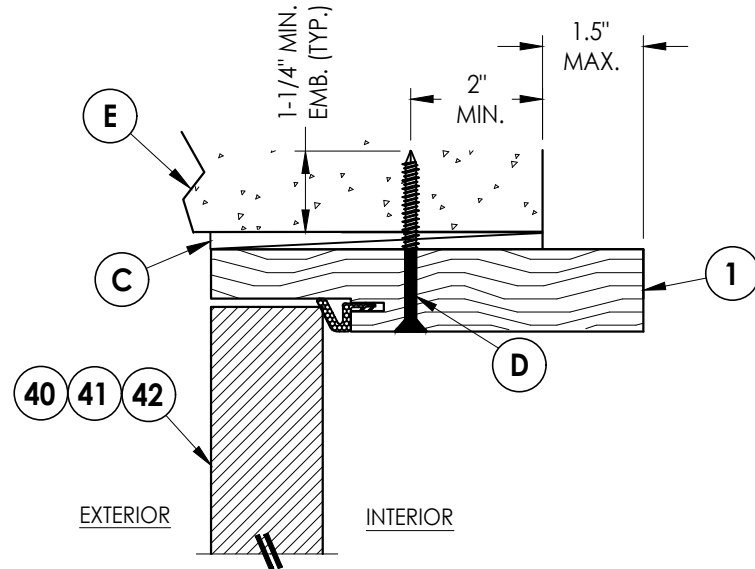
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

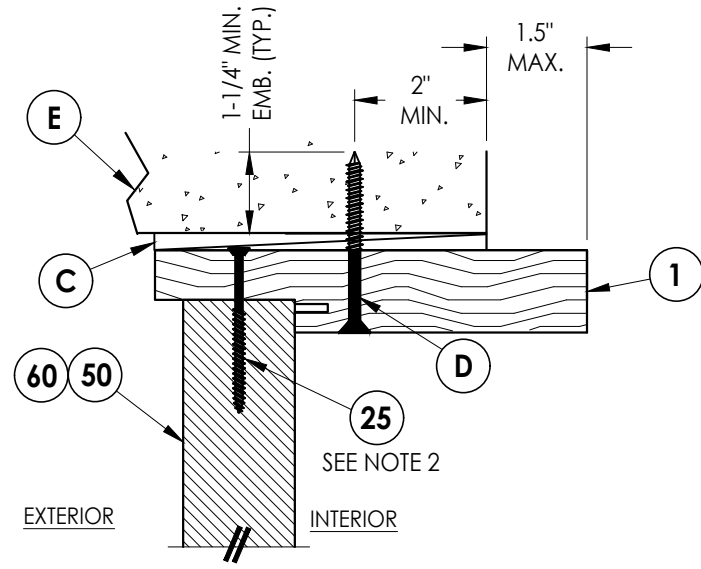
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3/7 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb
Double Door Only (N/A w/ Sidelites)



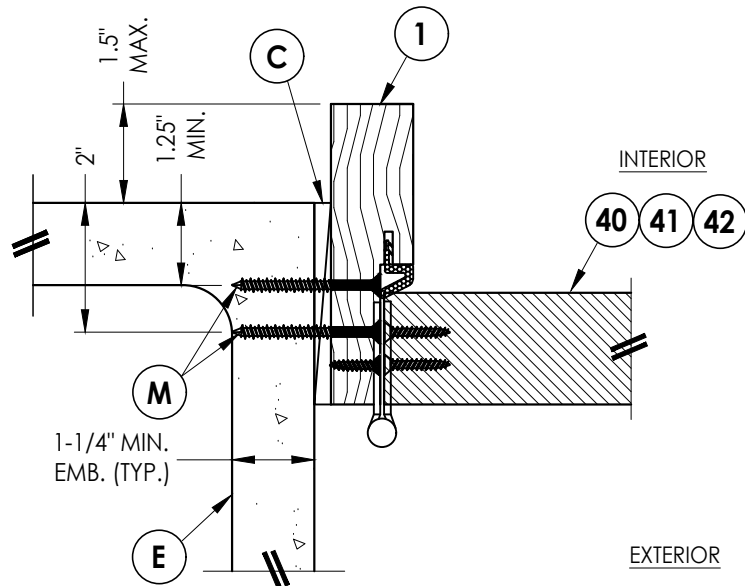
5/7 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



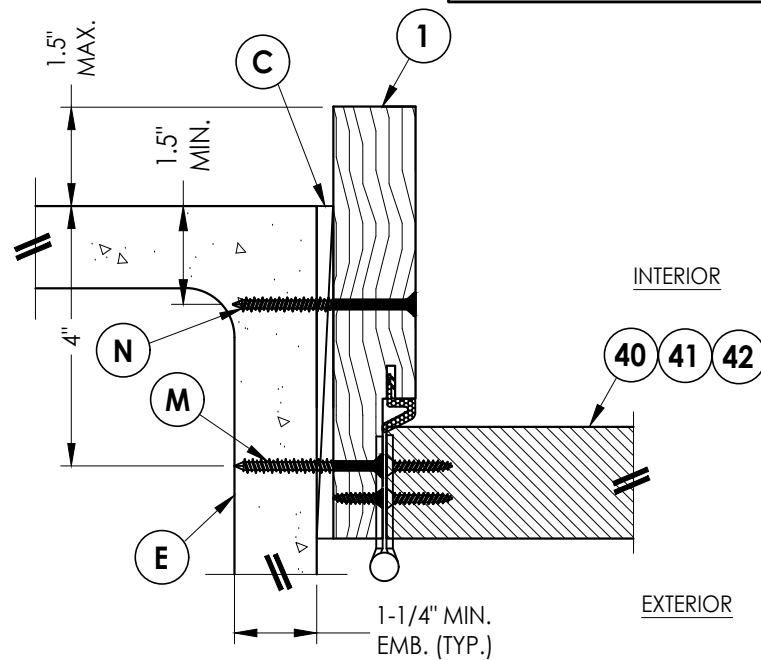
6/7 VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Notes:

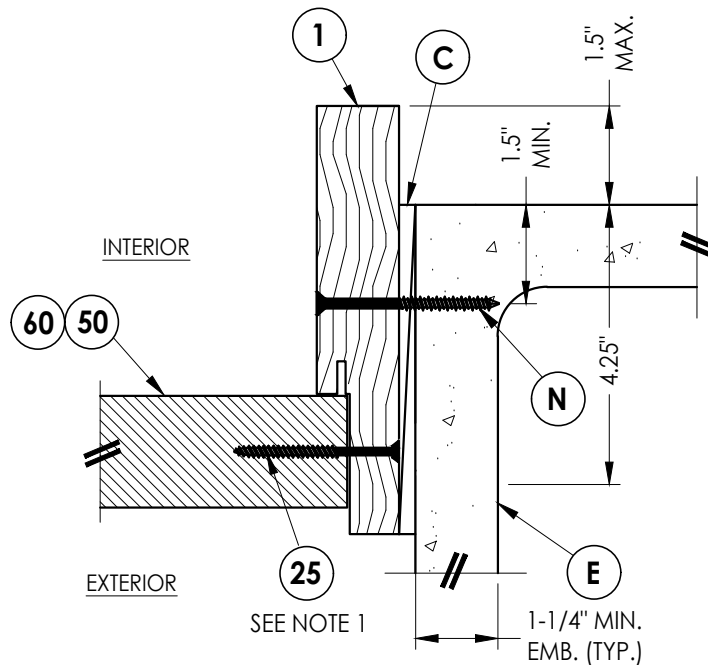
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



1/7 HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing 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



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

DIRECT TO MASONRY MAX. DESIGN PRESSURE:
± 55 PSF

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS	BY
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC	LFS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC	LFS
4	7/21/20	UPDATE TO 7th ED (2020) FBC	LFS

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

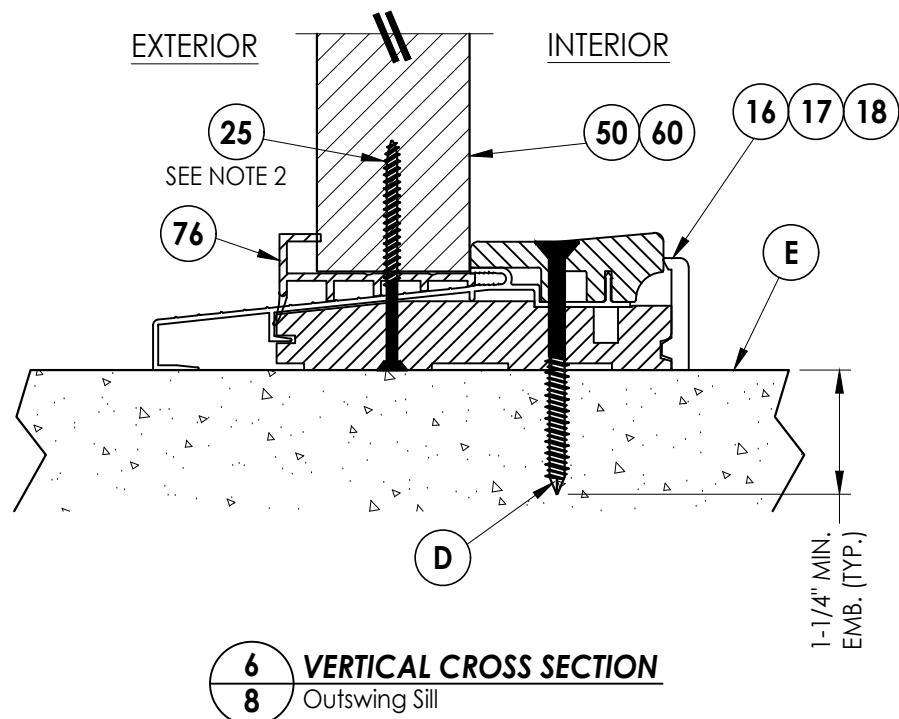
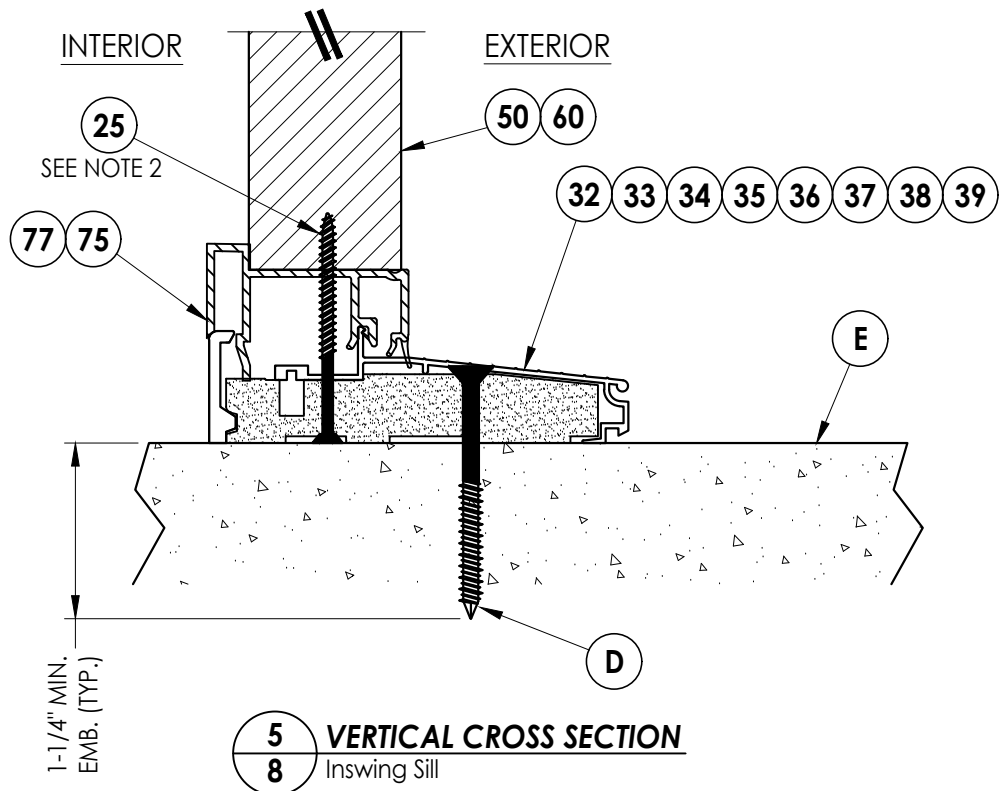
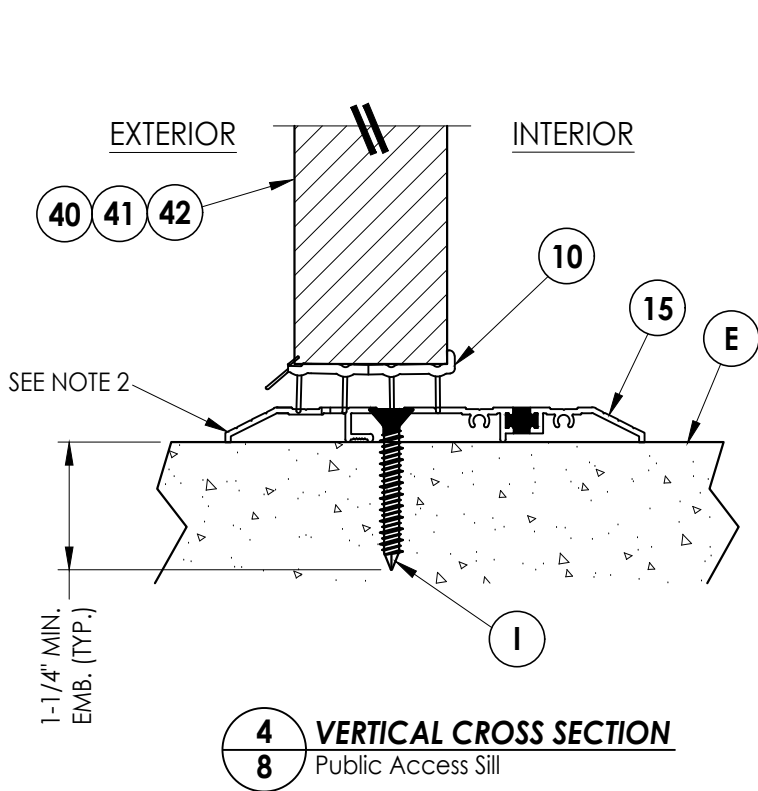
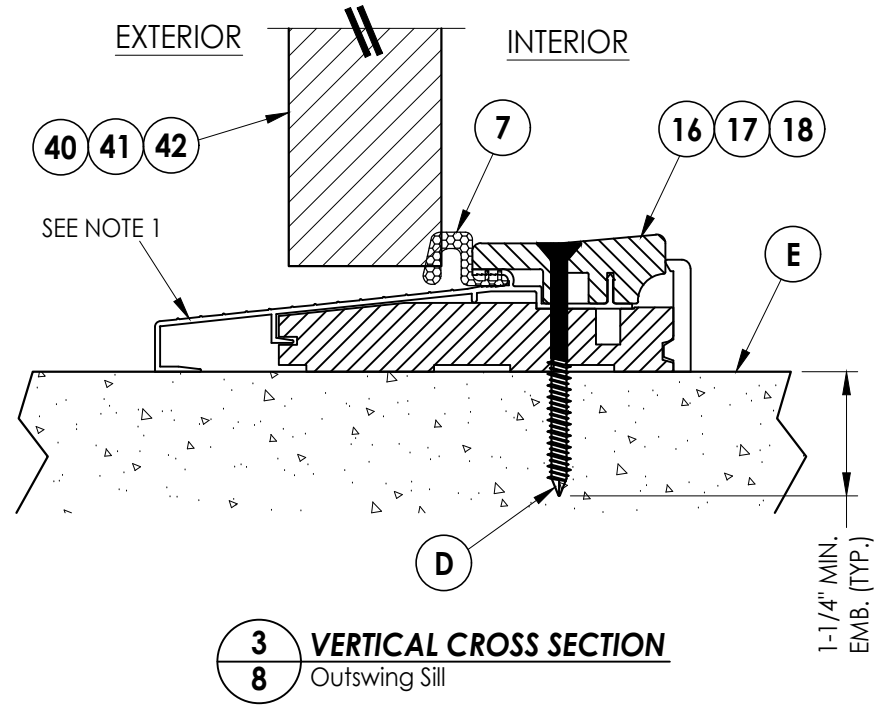
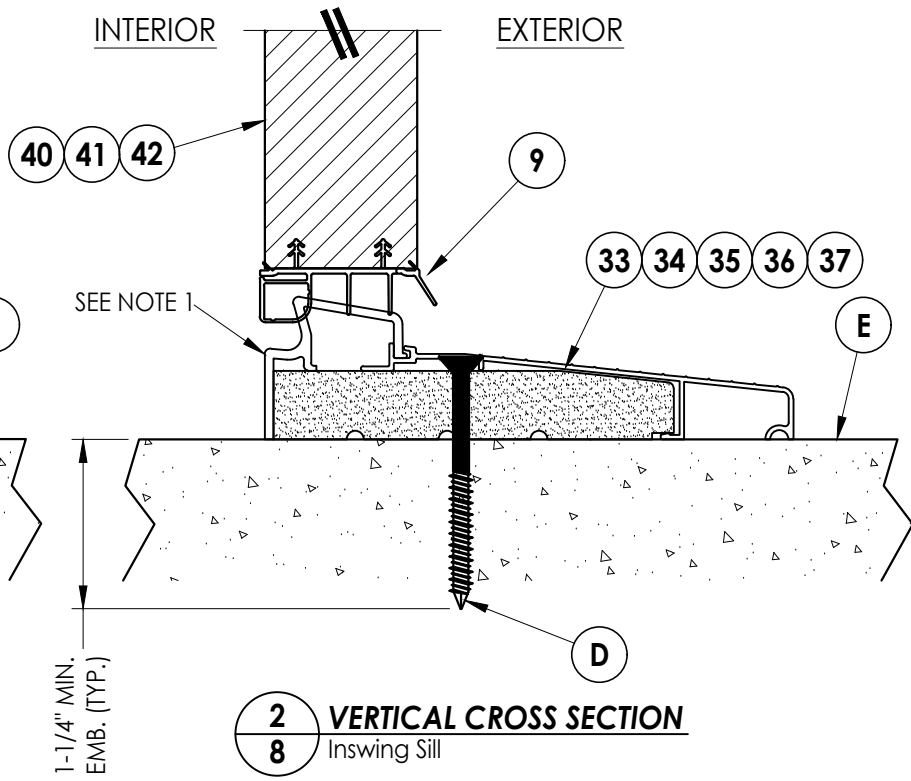
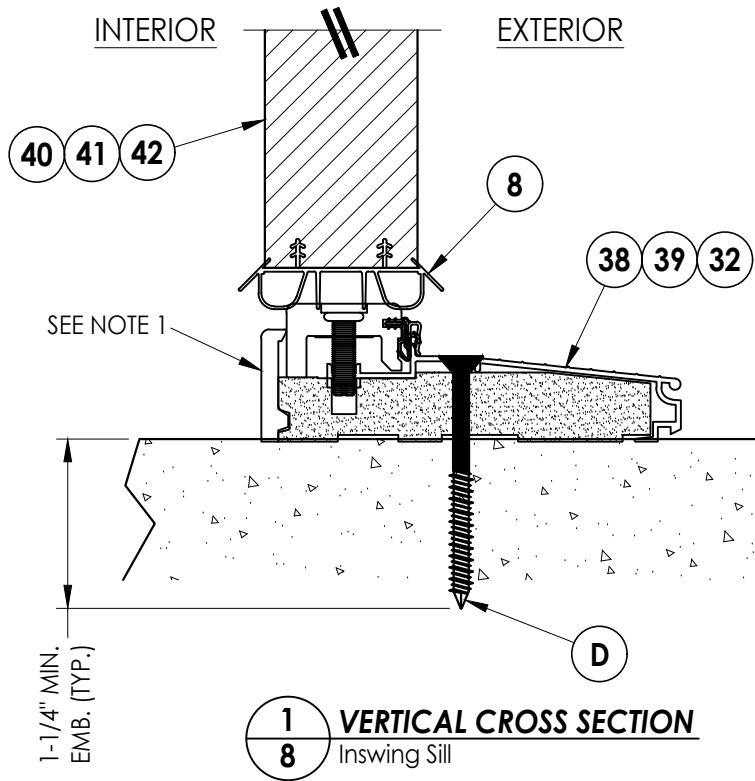
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SHEET 7 OF 14

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- Notes:
- Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 16 & 33 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 4" from each end (2 screws along sill).



Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC LFS
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SCALE: N.T.S.

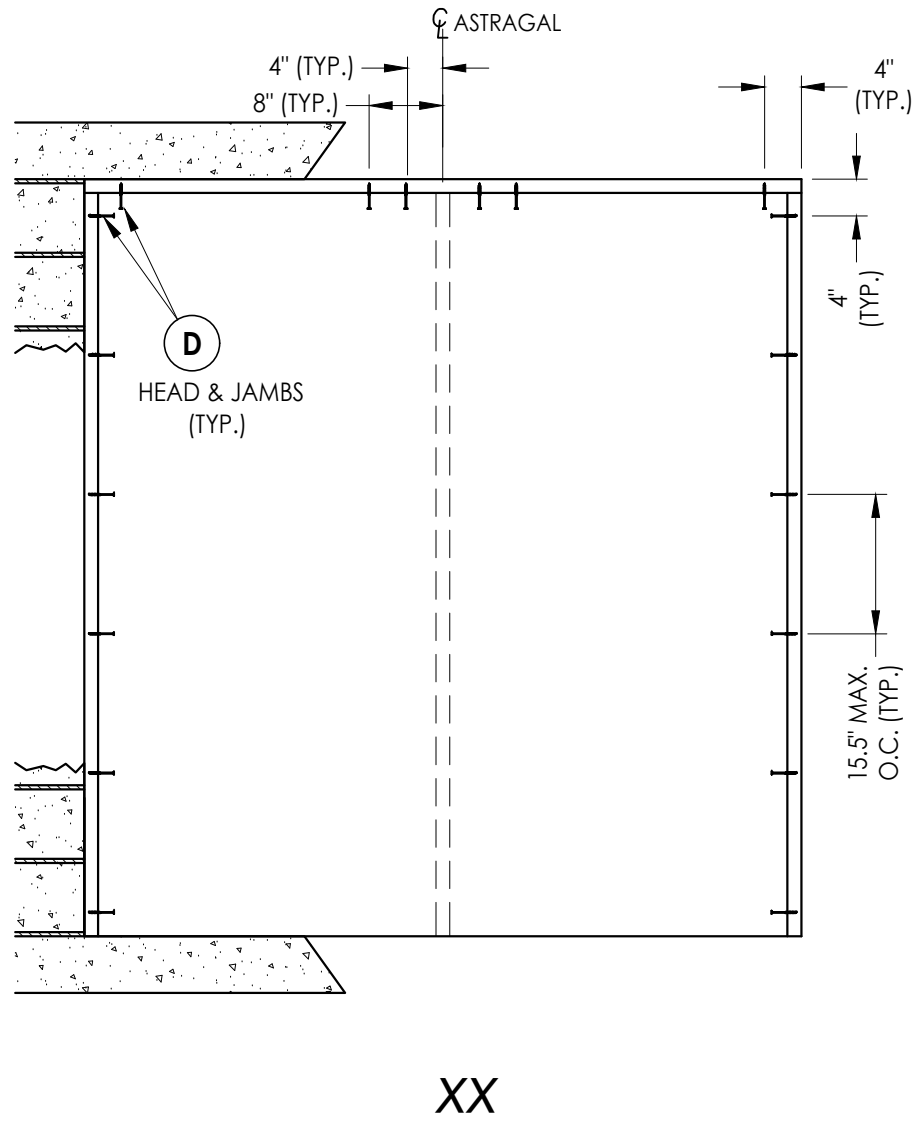
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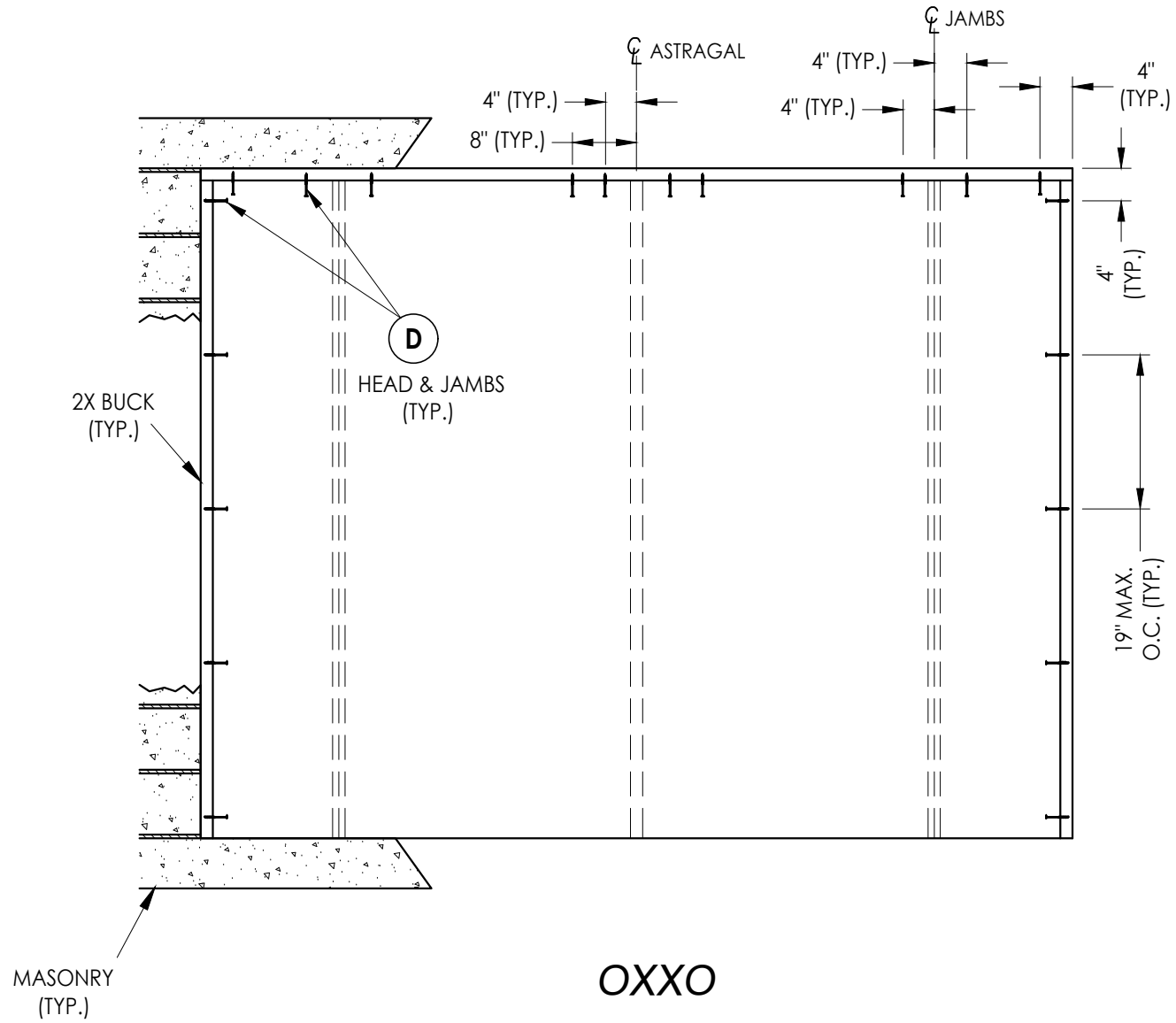
DRAWING NO.:

FL-20461.3

SHEET 8 OF 14



XX



MASONRY
(TYP.)

OXXO

2X BUCK ANCHORING

6	7/03/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
5	7/19/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
4	7/21/20	UPDATE TO 7th ED	(2020)	FBC	LFS
NO	DATE				BY
					REVISIONS

DATE: 8/10/16

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: *LFS*

DRAWING NO.:

FL-20461.3

SHEET 9 OF 14

PRODUCT:

THERMA-TRU
FIBERGLASS DOOR

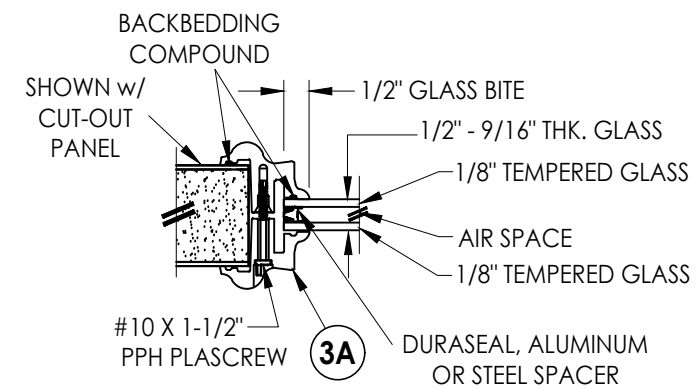
PART OR ASSEMBLY:

BUCK ANCHORING

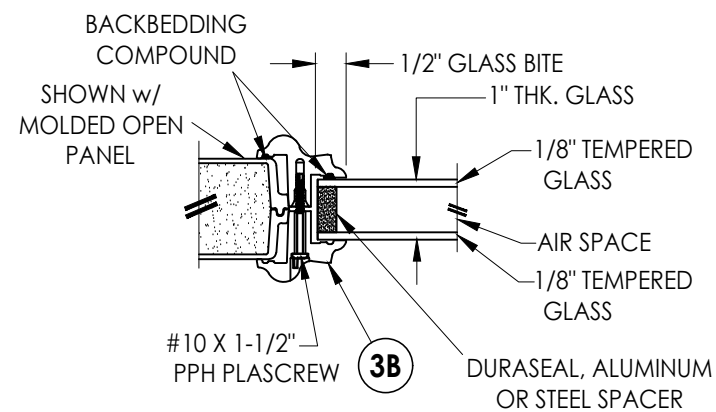
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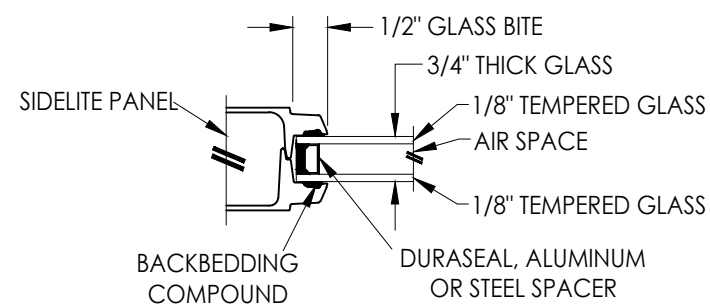
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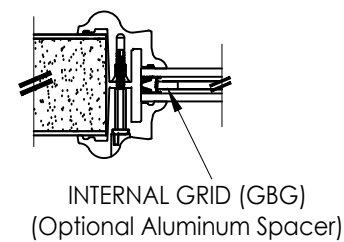
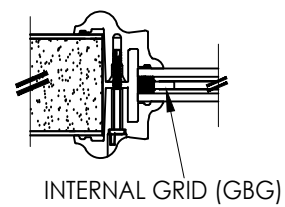
G1 **GLAZING DETAIL**
BTS Lite Frame
Sidelites



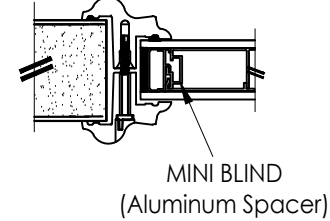
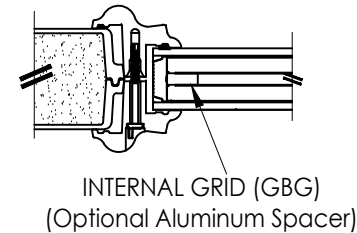
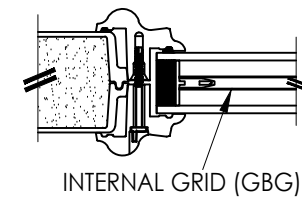
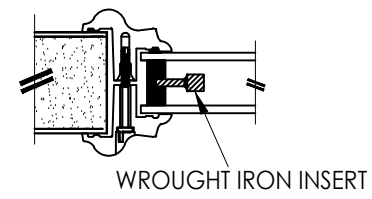
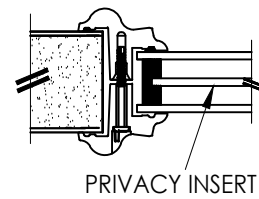
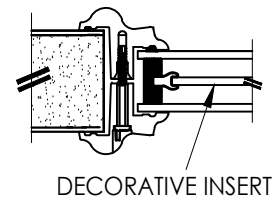
G2 **GLAZING DETAIL**
BTS Lite Frame
Sidelites



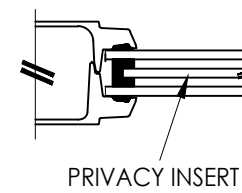
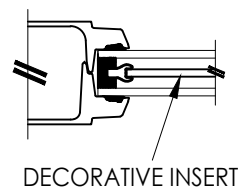
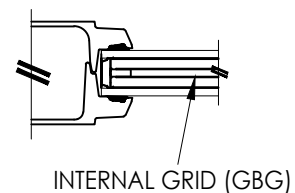
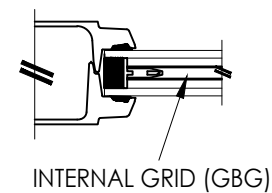
G3 **GLAZING DETAIL**



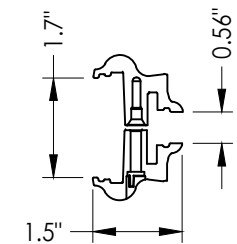
9/16" INSULATED GLASS INSERT OPTIONS



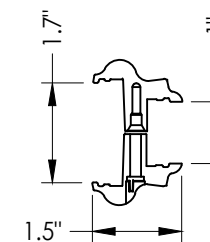
1" INSULATED GLASS INSERT OPTIONS



3/4" INSULATED GLASS INSERT OPTIONS



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



3B **BTS LITE FRAME**
1" Glazing

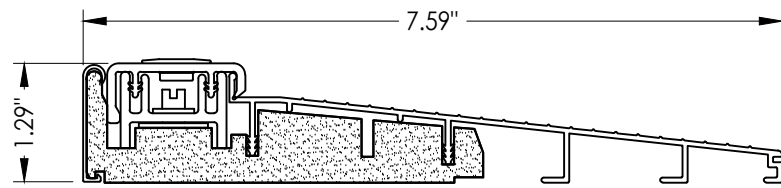
[illegible]

DATE:	8/10/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20461.3
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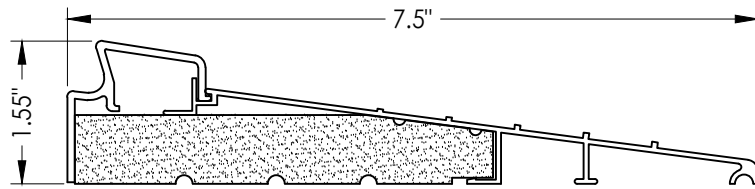
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

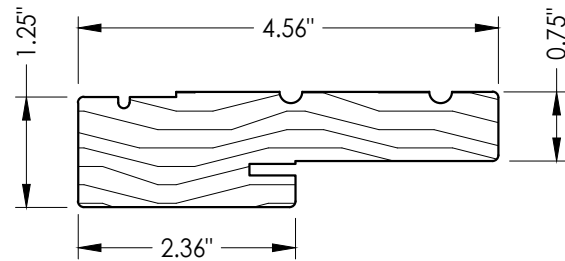
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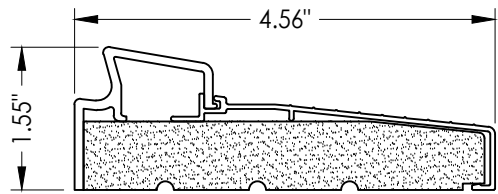
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



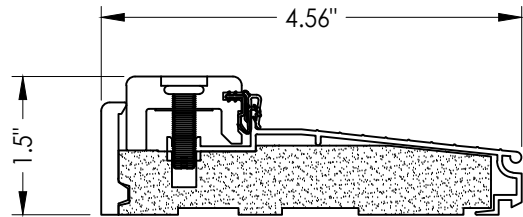
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



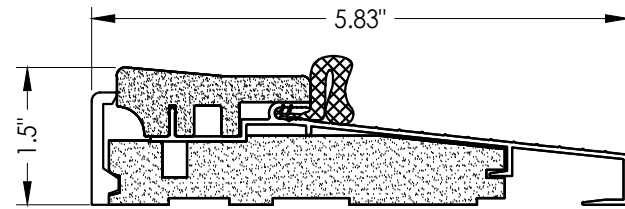
1 WOOD JAMB



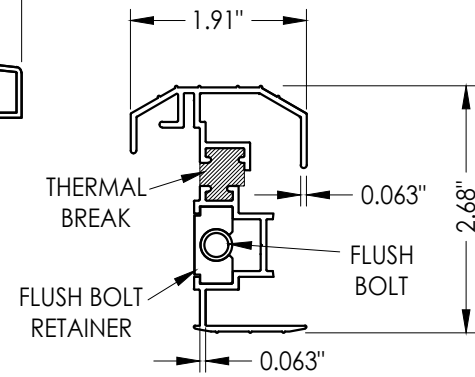
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



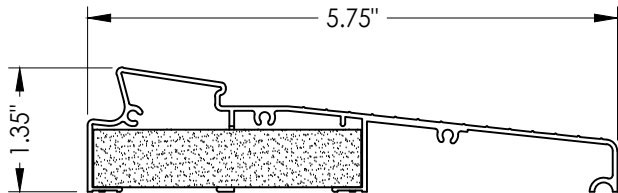
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



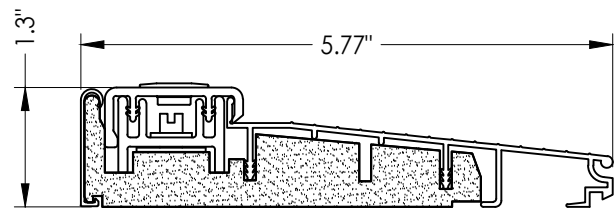
16 OUTSWING THRESHOLD
Composite Sill



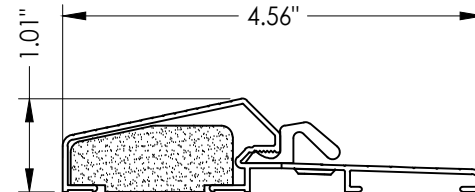
19 STANDARD ALUMINUM ASTRAGAL



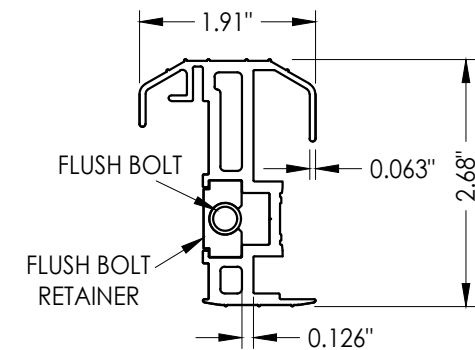
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



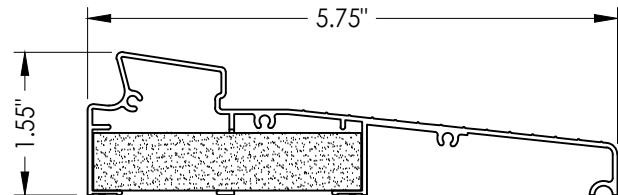
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



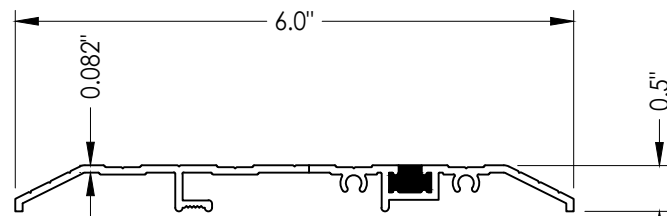
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



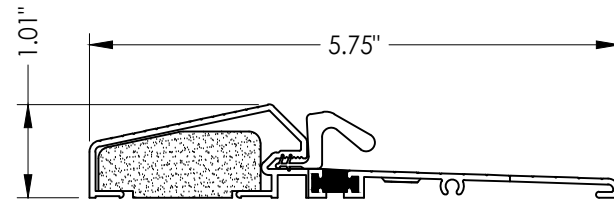
20 COASTAL ALUMINUM ASTRAGAL



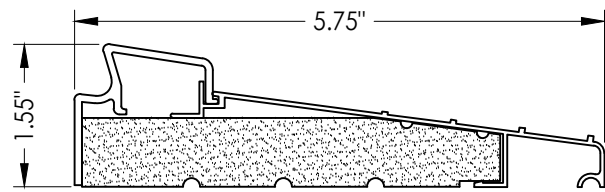
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



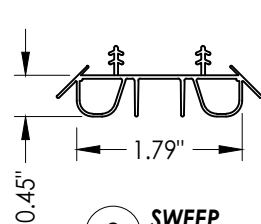
15 PUBLIC ACCESS THRESHOLD



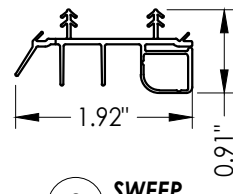
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



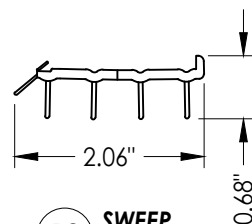
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



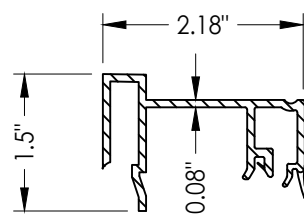
8 SWEEP



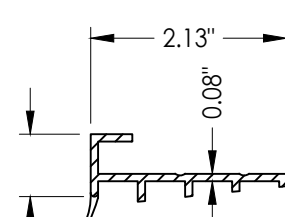
9 SWEEP



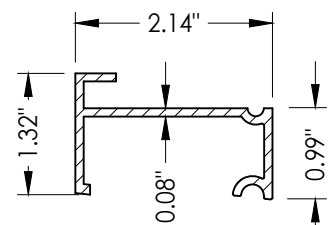
10 SWEEP



75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold

Documents Prepared By:
Lyndon F. Schmidt
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS	BY
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC	LFS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC	LFS
4	7/21/20	UPDATE TO 7th ED (2020) FBC	LFS

DATE: 8/10/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20461.3
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	29	4" X 4" HINGE	STEEL
			32	IN swing THRESHOLD	ALUM/COMP
F	#10 X 2" PFH WOOD SCREW	STEEL	33	IN swing THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	34	IN swing THRESHOLD	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	35	IN swing THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	36	IN swing THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	37	IN swing THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	38	IN swing THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	39	IN swing THRESHOLD	ALUM/COMP
P	1/4" X 2-3/4" PFH DeWALT CONCRETE SCREW	STEEL	40	DOOR PANEL (BOOK)	-
1	JAMB (FINGER JOINT PINE)	WOOD	41	DOOR PANEL (HYBRID)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	42	DOOR PANEL (U1)	-
7	WEATHERSTRIP (LONG REACH)	FOAM	50	SIDELITE (FULL LITE)	-
8	SWEEP	VINYL	60	SIDELITE (FLUSH GLAZED)	-
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	75	SIDELITE SPACER (IN swing)	PVC
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	76	SIDELITE SPACER (OUT swing)	PVC
11	#10 X 1-3/4" PFH WOOD SCREW	STEEL	77	SIDELITE SPACER (IN swing) - MODERATE CLIMATE SILL	PVC
15	PUBLIC ACCESS THRESHOLD	ALUM	78	MULTIPOINT LOCK STRIKE PLATE @ HEAD	STEEL
16	OUT swing THRESHOLD	ALUM/COMP	79	MULTIPOINT LOCK STRIKE PLATE @ SILL	STEEL
17	OUT swing THRESHOLD	ALUM/COMP	80	COASTAL ASTRAGAL STRIKE PLATE	STEEL
18	OUT swing THRESHOLD	ALUM/COMP	81	STANDARD ASTRAGAL STRIKE PLATE	STEEL
19	STANDARD ALUMINUM ASTRAGAL	ALUM	<u>CONCRETE ANCHOR NOTES:</u> 1. Concrete anchor locations at the corners may be adjusted.		
20	COASTAL ALUMINUM ASTRAGAL	ALUM			
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.

CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

DATE: 8/10/16		REVISIONS	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20461.3			
SHEET 14 OF 14			
6	7/03/26	UPDATE TO 9TH ED. (2026)	FBC LFS
5	7/19/23	UPDATE TO 8TH ED. (2023)	FBC LFS
4	7/21/20	UPDATE TO 7th ED (2020)	FBC LFS
NO.	DATE		BY
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS	
Documents Prepared By:		Lyndon F. Schmidt P.E. No. 43409	
		<i>R^W</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	