

Technical drawing of a door assembly showing dimensions and components:

- Overall Frame Width:** 76.75" MAX.
- Frame Width (Left):** 37.50" MAX.
- Frame Width (Right):** 37.75" MAX.
- Frame Height (Inswing):** 82" MAX. O.A.
- Frame Height (Outswing):** 81.25" MAX. O.A.
- Door Components:**
 - Left door panel with a central circular handle.
 - Right door panel with a six-panel design, a central horizontal bar labeled 'X', and two circular handles.
- Reinforcement:** 1.5" REINFORCEMENT (indicated at the bottom).



Technical drawing of a three-panel door assembly. The drawing shows three panels: a left panel, a central panel, and a right panel. The central panel features a six-pane design with a handle and a lock. The left and right panels are solid with a circular handle. Dimensions are provided for the overall frame width and height, as well as the individual panel widths and heights. A 1.5" reinforcement is indicated at the bottom of the central panel.

Dimensions and Labels:

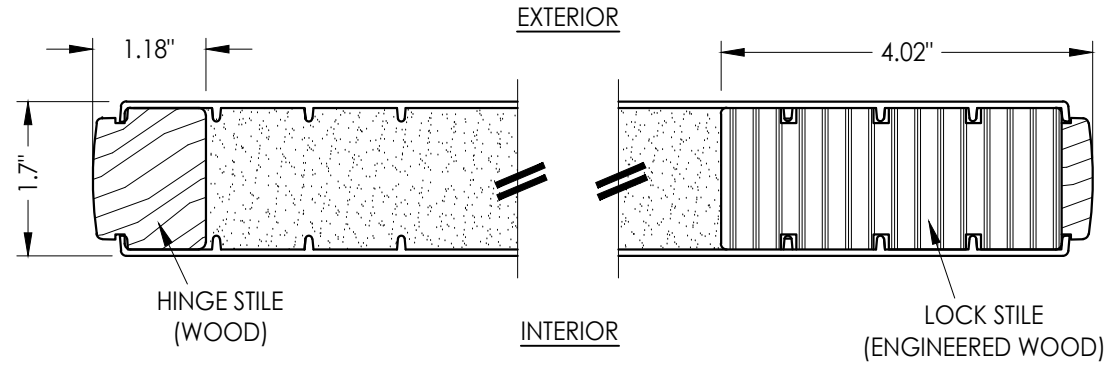
- Overall Frame W/ 2X MULL. REINF. (Top): 115.75" MAX.
- Frame Width (Left Panel): 37.50" MAX.
- Frame Width (Central Panel): 37.75" MAX.
- Frame Height (Inswing): 82" MAX. O.A.
- Frame Height (Outswing): 81.25" MAX. O.A.
- Central Panel Label: X
- Reinforcement (Bottom): 1.5" REINFORCEMENT

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+55.0	-55.0	+55.0	-55.0

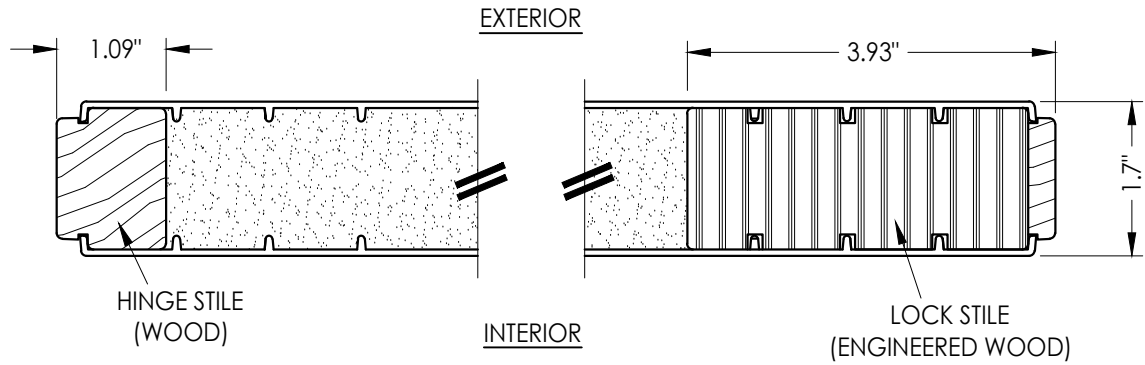
DATE:	4/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17540.2
SHEET	1 OF 15

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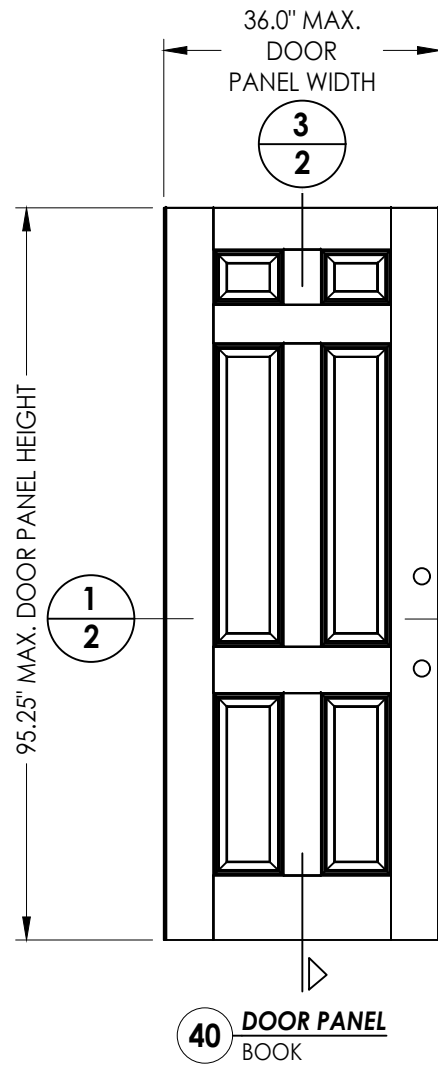
Z:\2023 FBC Drawings\Therma-Tru\FL-17540 R7\FL-17540.1-4.dwg



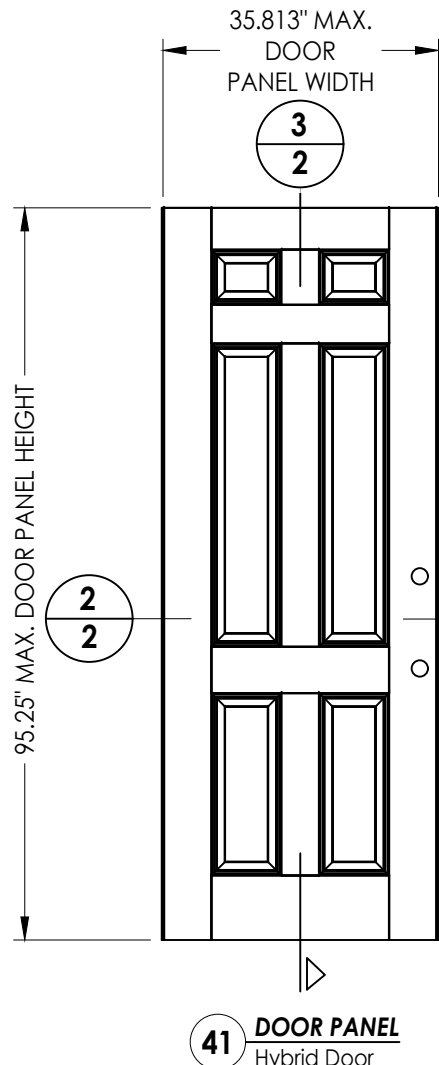
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2 **HORIZONTAL CROSS SECTION**



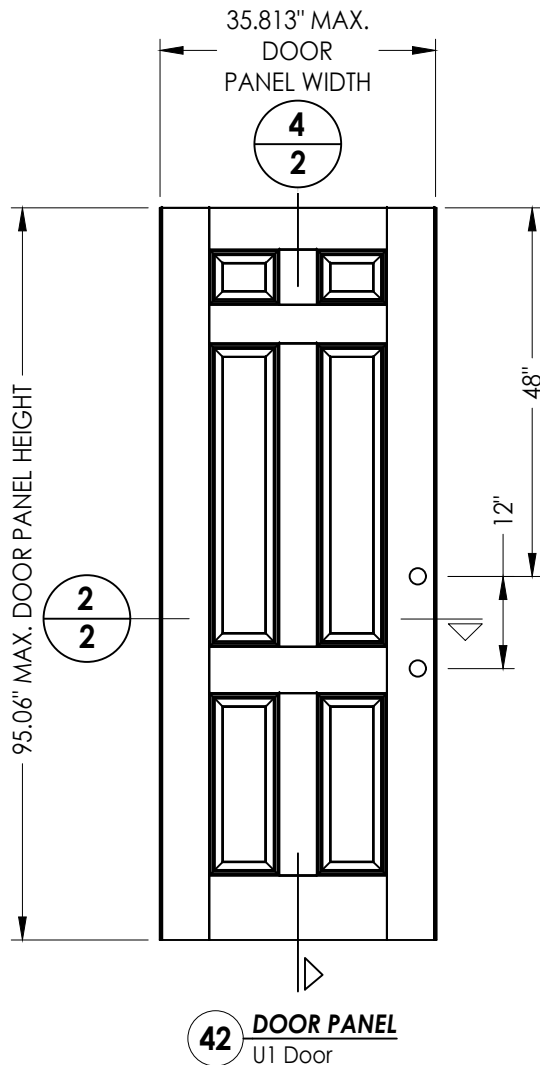
2
2 **HORIZONTAL CROSS SECTION**



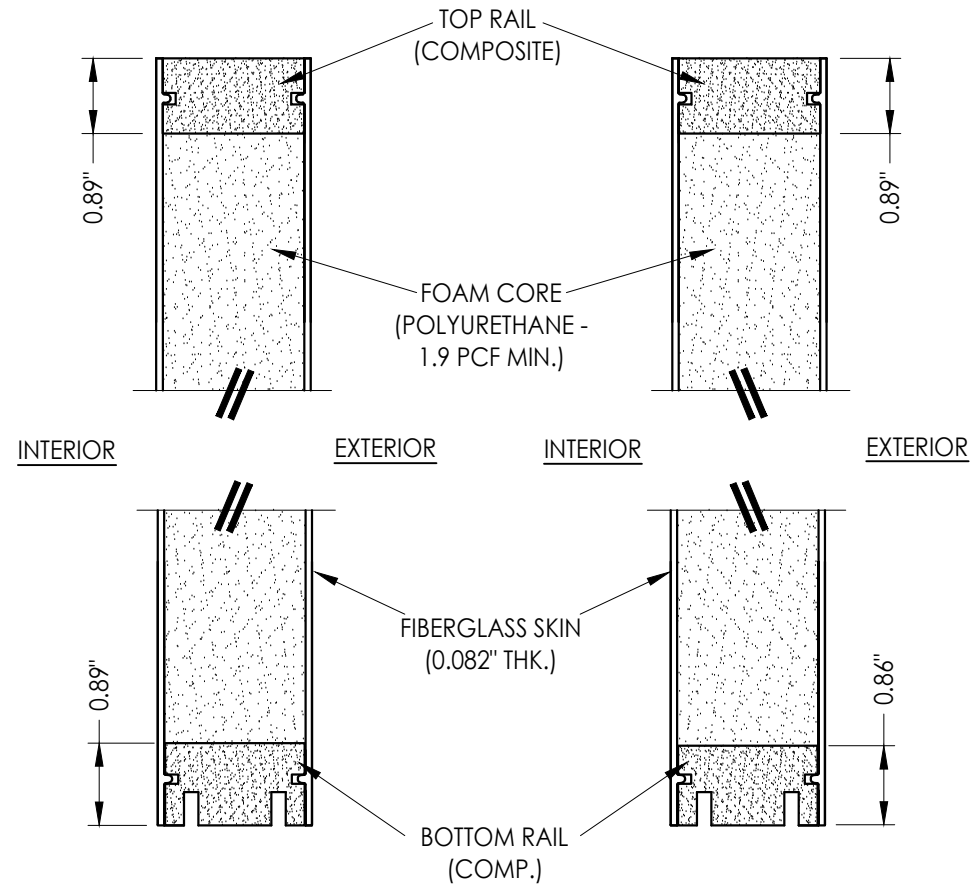
40 **DOOR PANEL**
BOOK



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

RW BUILDING CONSULTANTS, INC.

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC
5	7/17/23	UPDATE TO 8TH ED. (2023) FBC
4	7/14/20	UPDATE TO 7th ED (2020) FBC
		BY

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

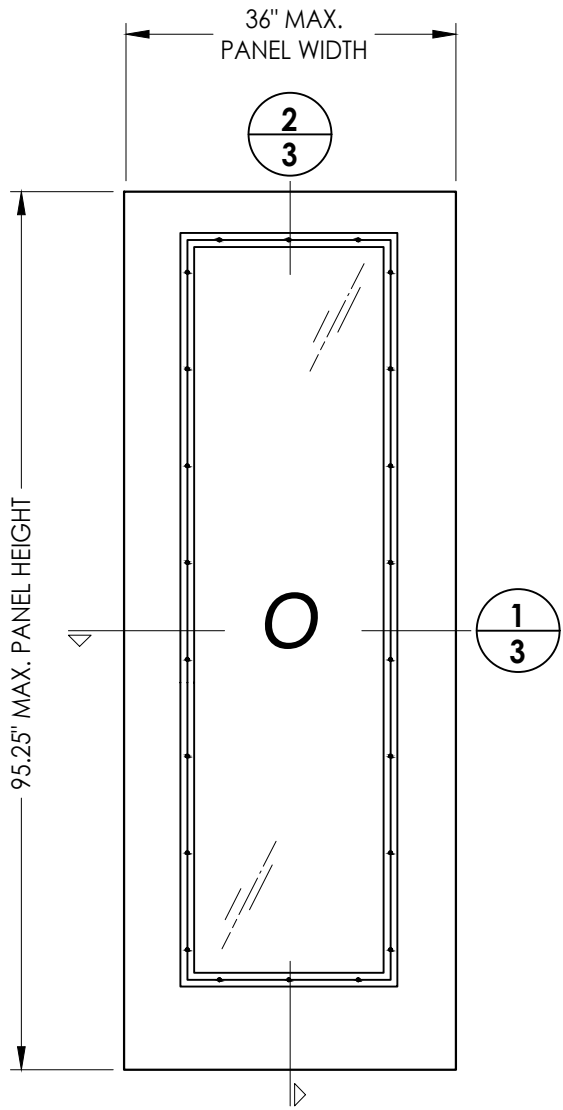
CHK. BY: LFS

DRAWING NO.:

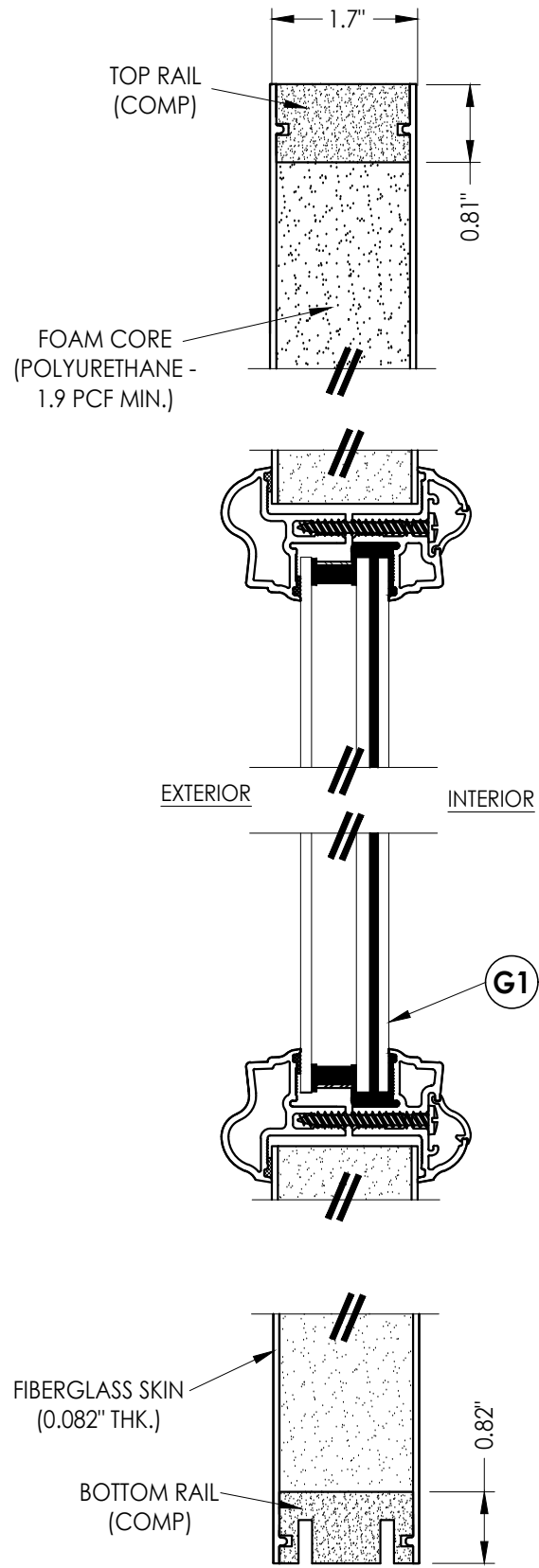
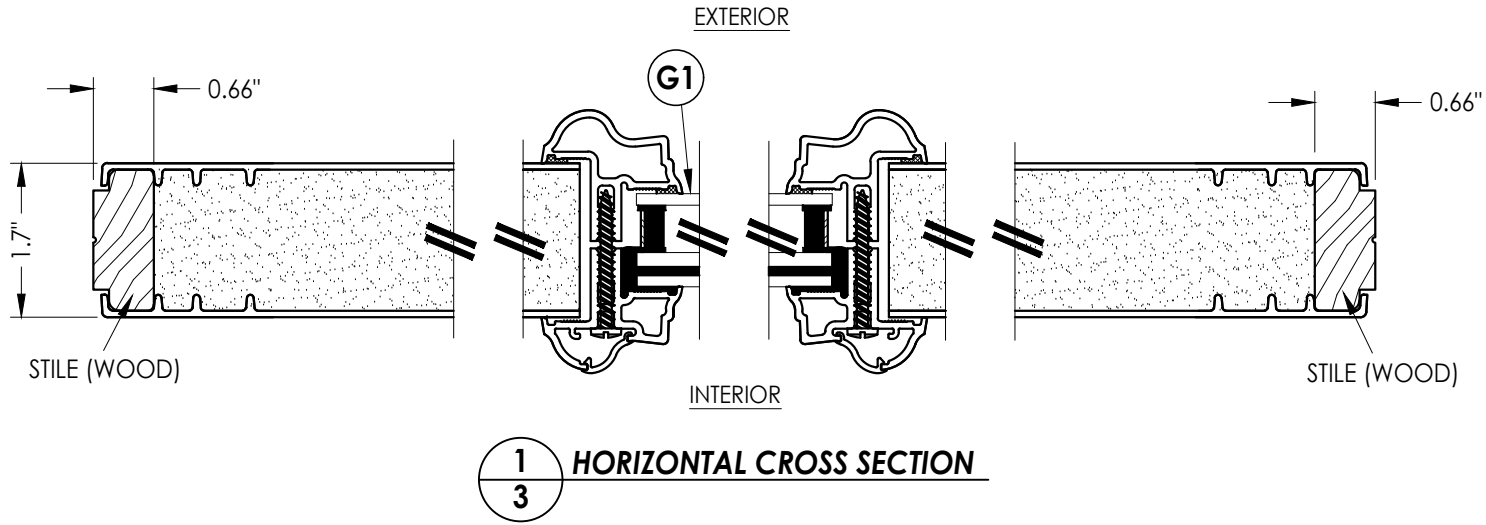
FL-17540.2

SHEET 2 OF 15

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50 SIDELITE PANEL



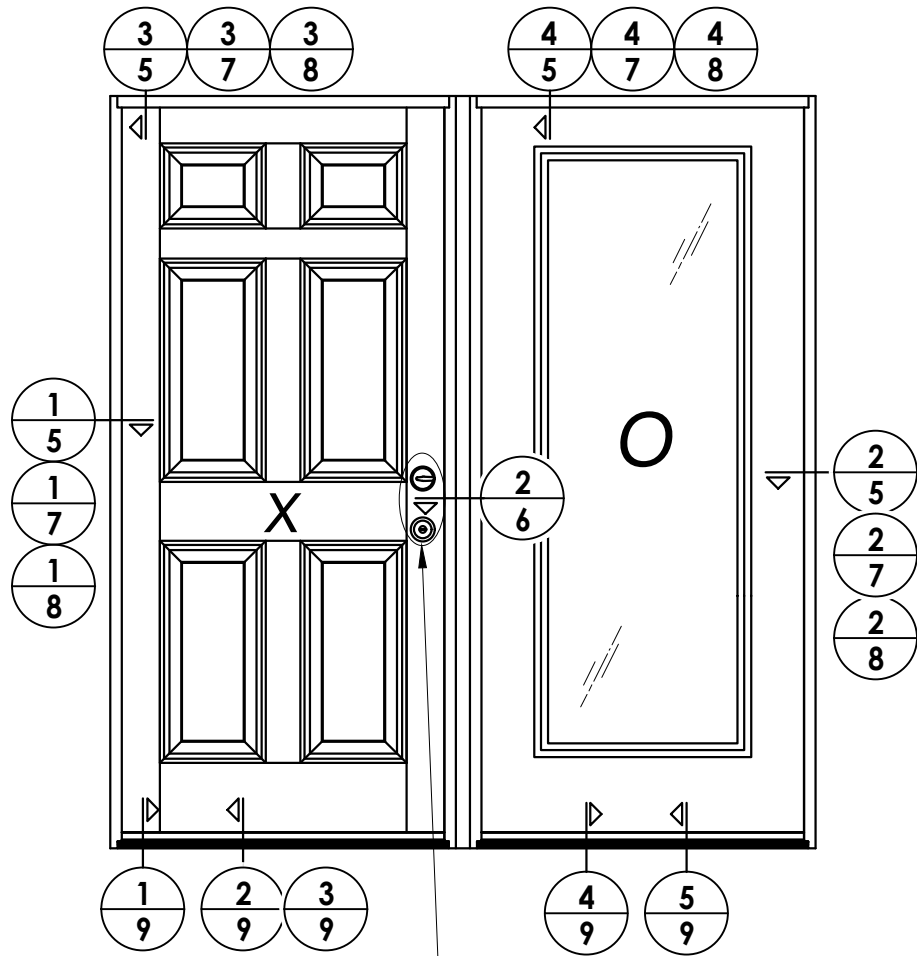
PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
REVISIONS		NO.	DATE
6	7/03/26	UPDATE TO 9TH ED. (2026)	FBC LFS
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC LFS
4	7/14/20	UPDATE TO 7th ED (2020)	FBC LFS
		BY	

DATE: 2/24/09
SCALE: N.T.S.
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-17540.2
SHEET 3 OF 11

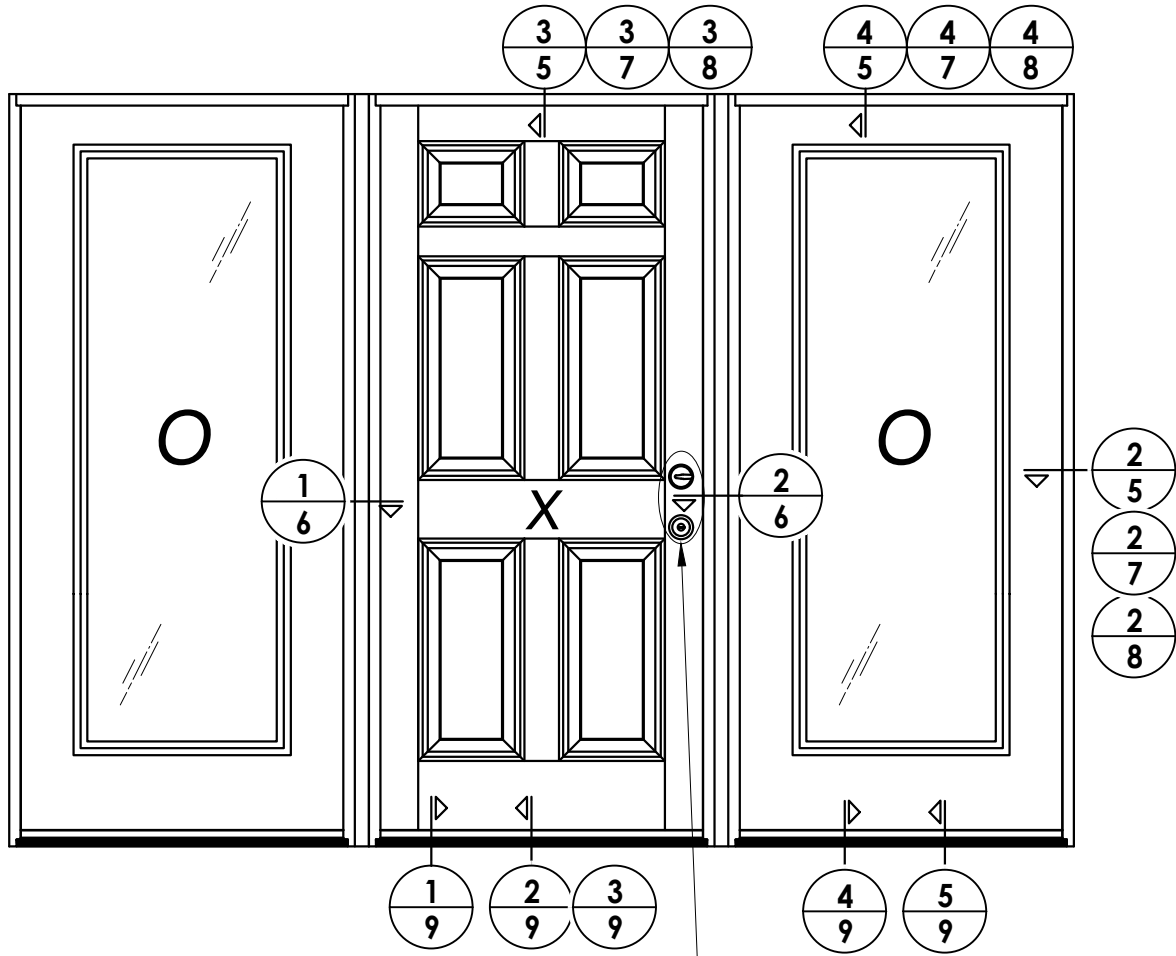
Documents Prepared By:
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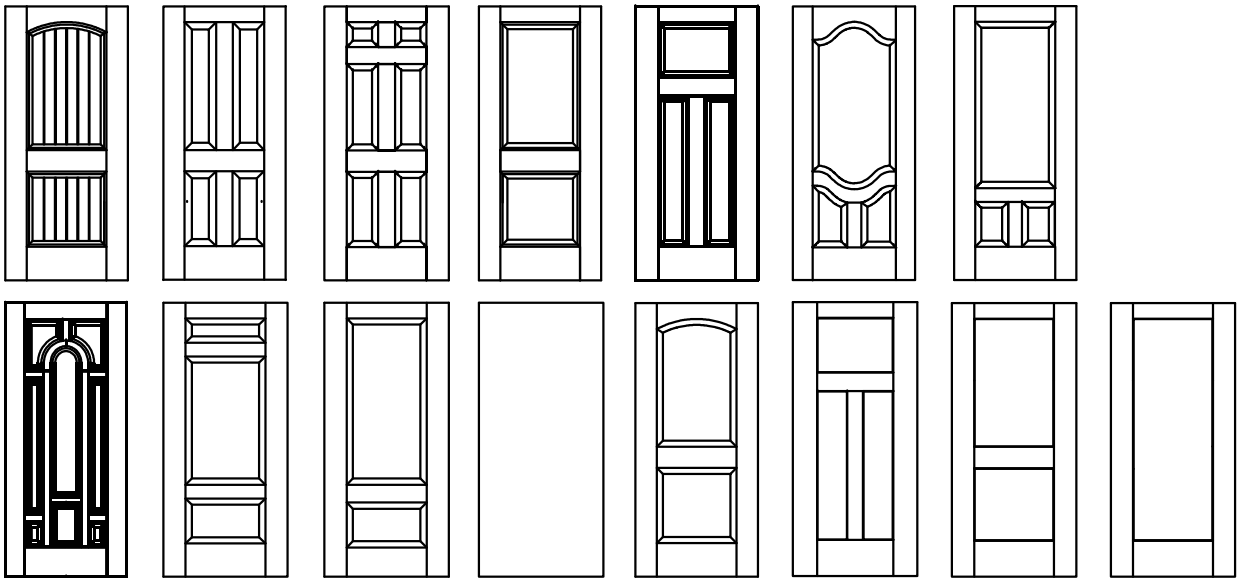
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SEE HARDWARE CHART



SEE HARDWARE CHART



Benchmark 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.

HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	Knob:	F51
	Deadbolt:	B60
KWIKSET	Knob:	SIGNATURE SERIES
	Deadbolt:	SIGNATURE SERIES (980)

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FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

		6	7/03/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
		5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
		4	7/14/20	UPDATE TO 7th ED. (2020)	FBC	LFS	
		NO.	DATE			BY	
				REVISIONS			

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

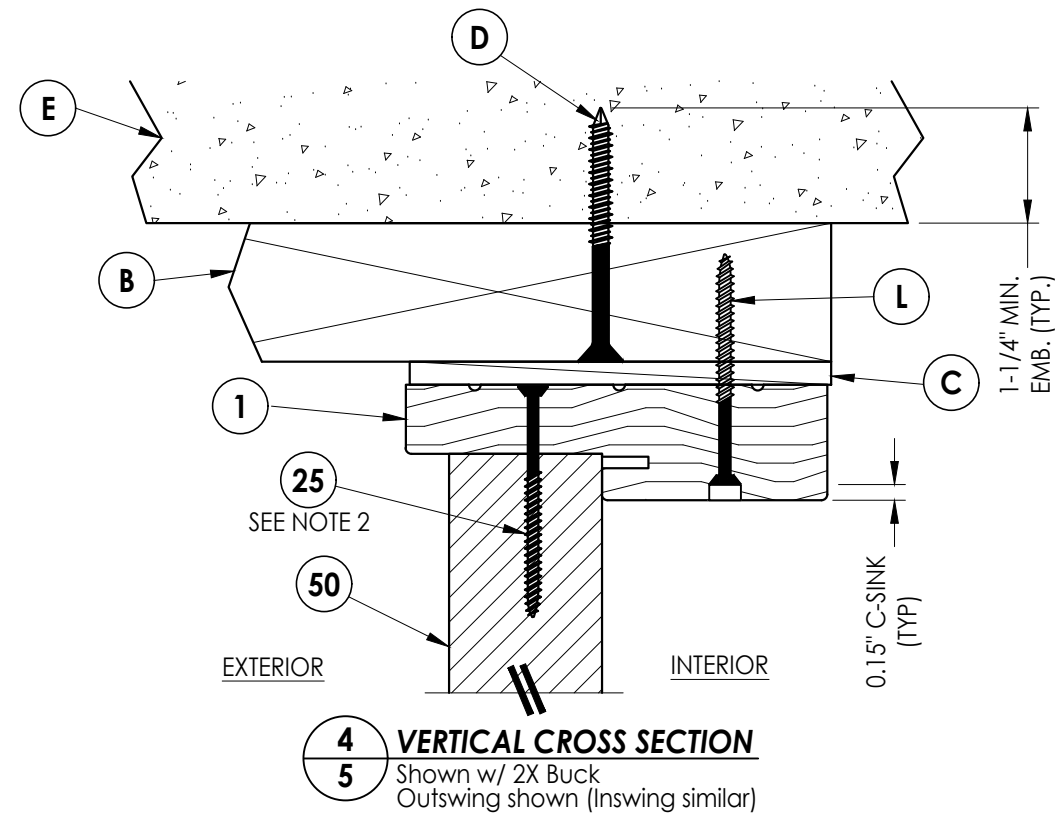
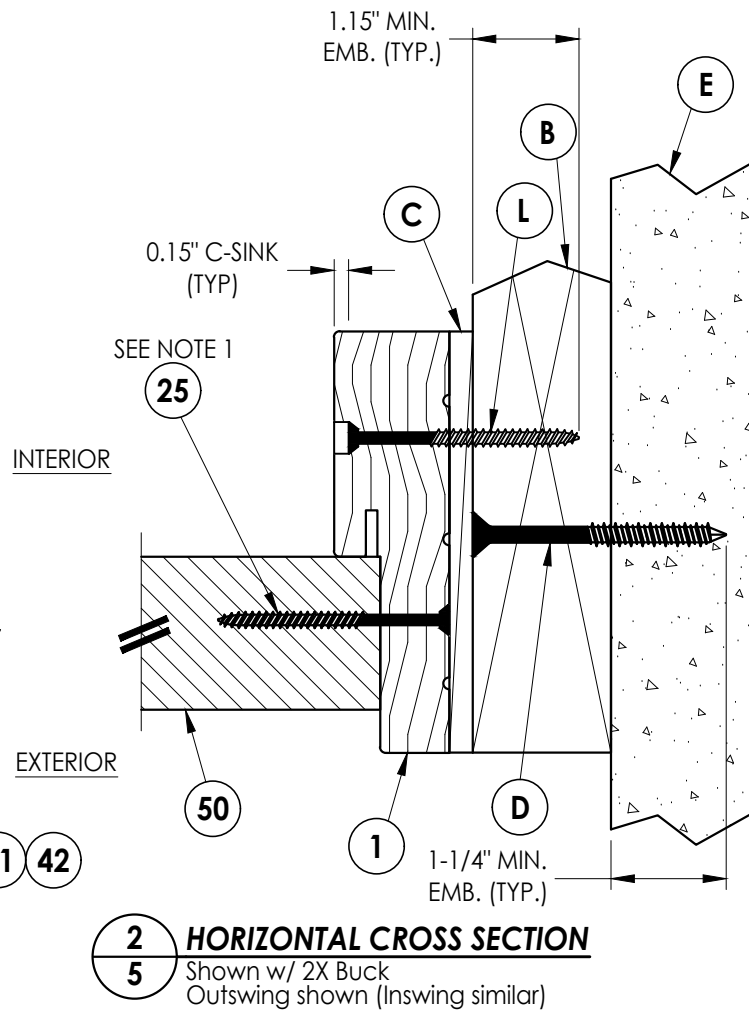
CHK. BY: LFS

DRAWING NO.:

FL-17540.2

SHEET 4 OF 15

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).



6	7/03/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
5	7/17/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
4	7/14/20	UPDATE TO 7th ED	(2020)	FBC	LFS
NO.	DATE				BY
REVISIONS					

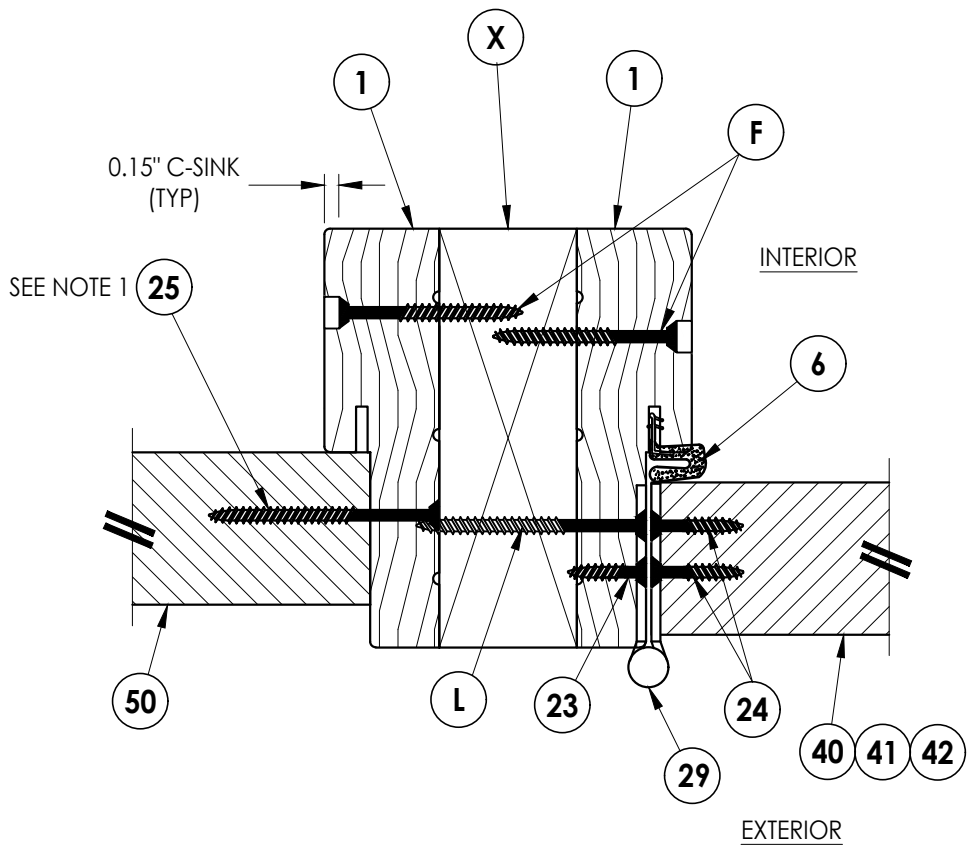
SHEET 5 OF 15

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

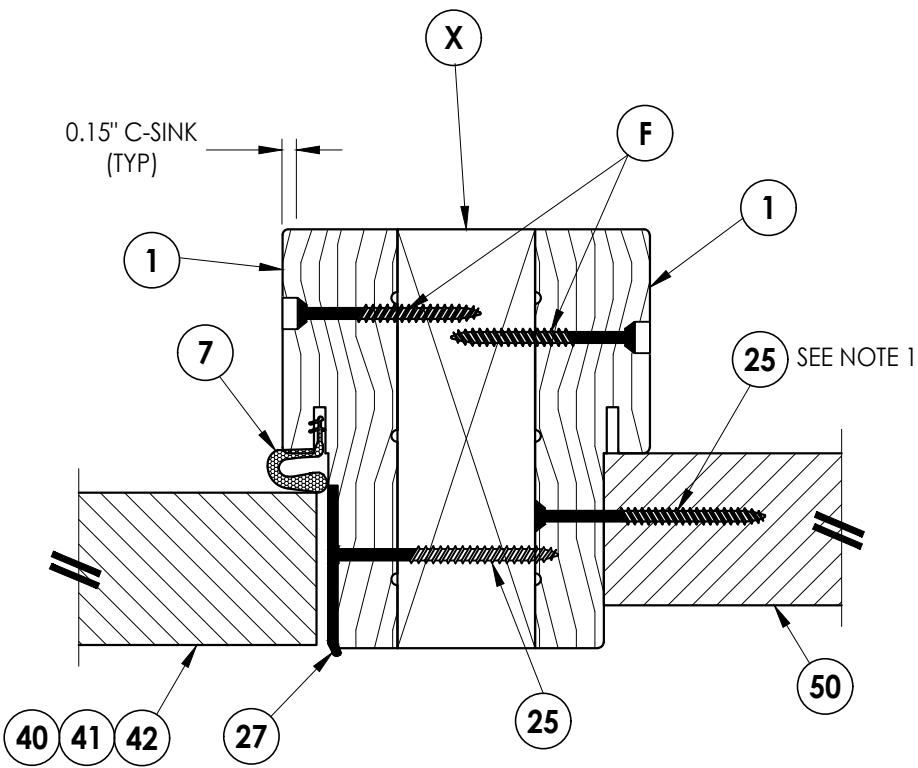
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Phone No: 813.659.9197
FBPE Registry No. 9813

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- 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).



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



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

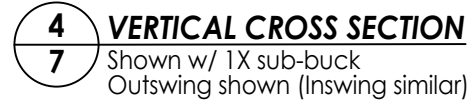
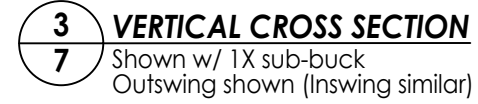
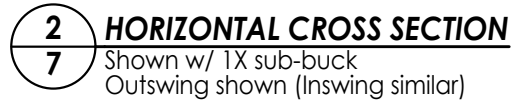
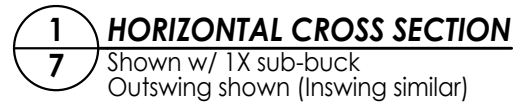
NO.	DATE	REVISIONS
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/17/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/14/20	UPDATE TO 7th ED (2020) FBC LFS

DATE:	4/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17540.2
SHEET	6 of 15

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)

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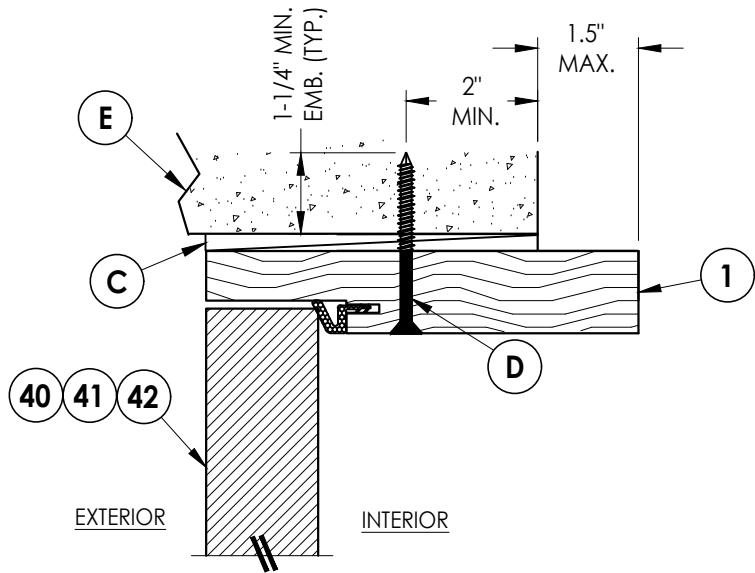
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



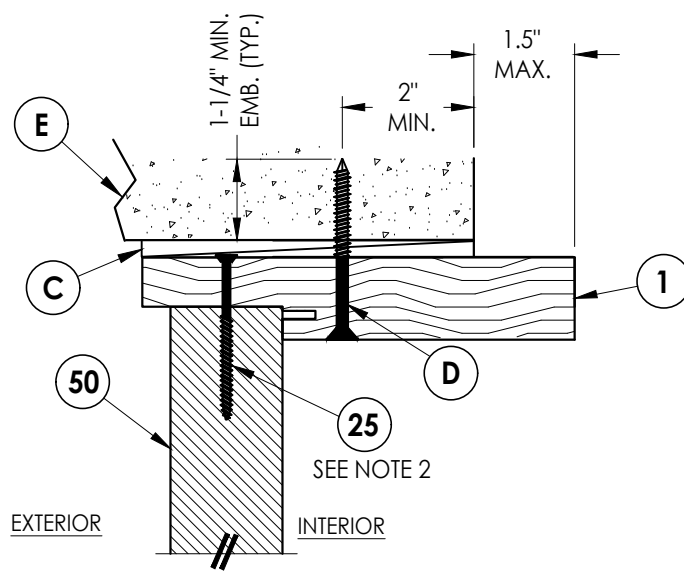
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17540.2
SHEET	<u>7</u> OF <u>15</u>

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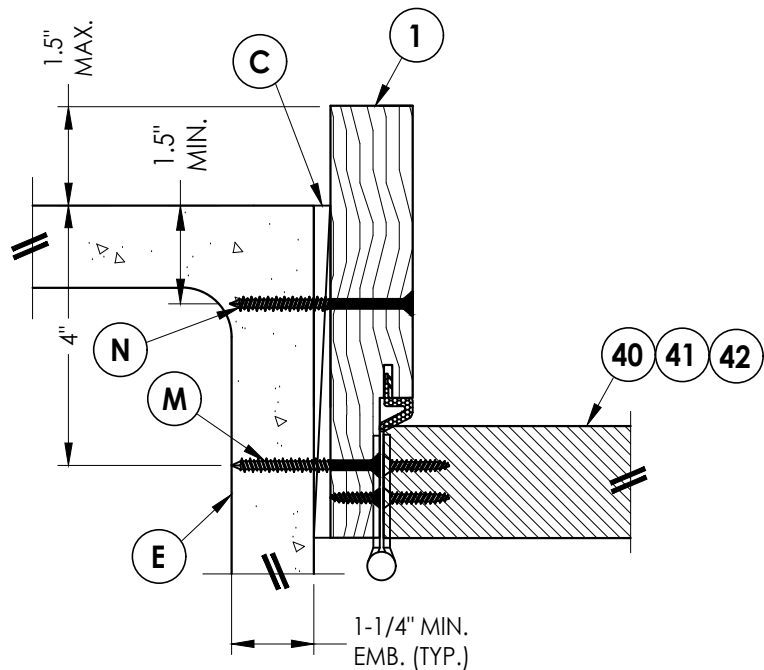
3
8 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



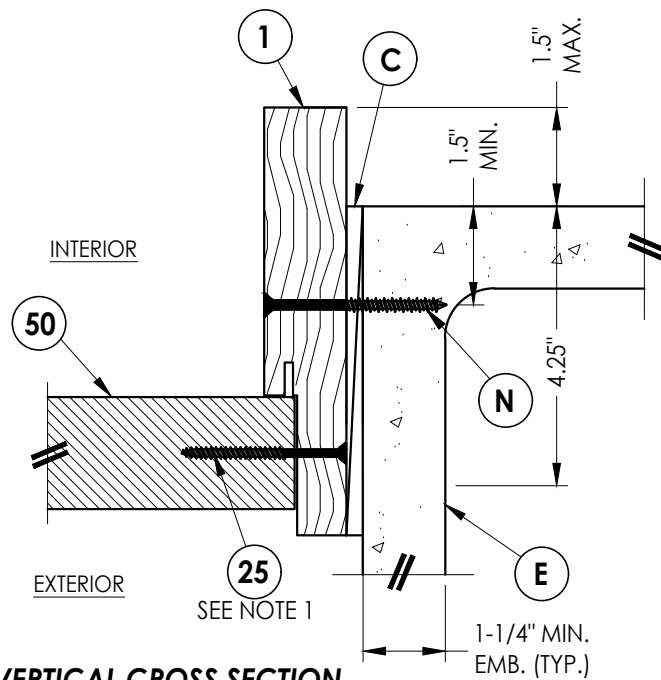
4
8 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Notes:

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



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



2
8 **VERTICAL CROSS SECTION**
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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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
6	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/17/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/14/20	UPDATE TO 7th ED (2020) FBC LFS

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

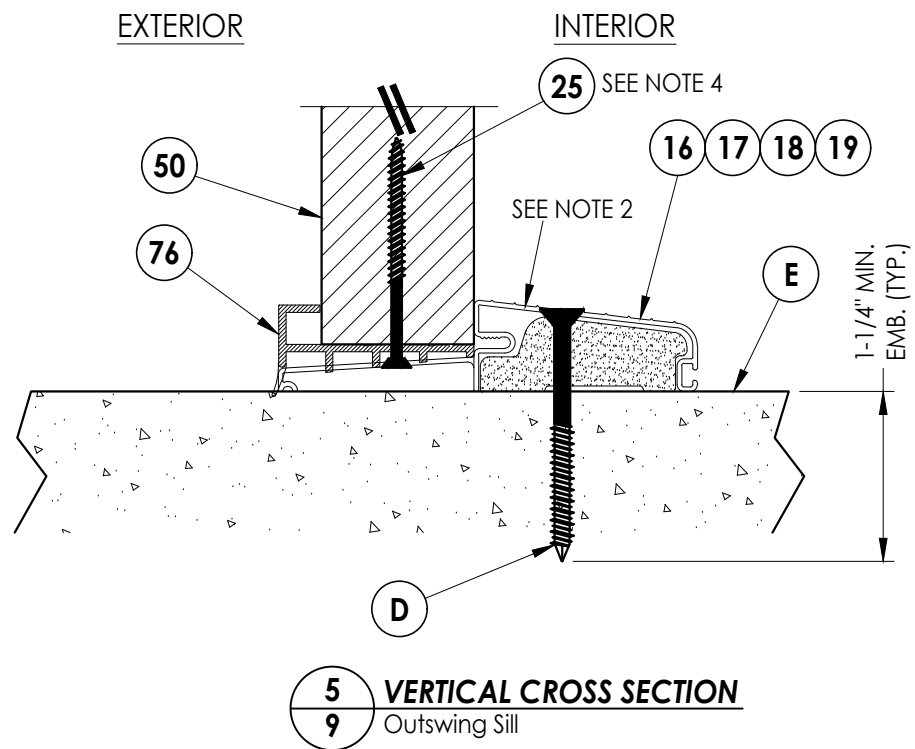
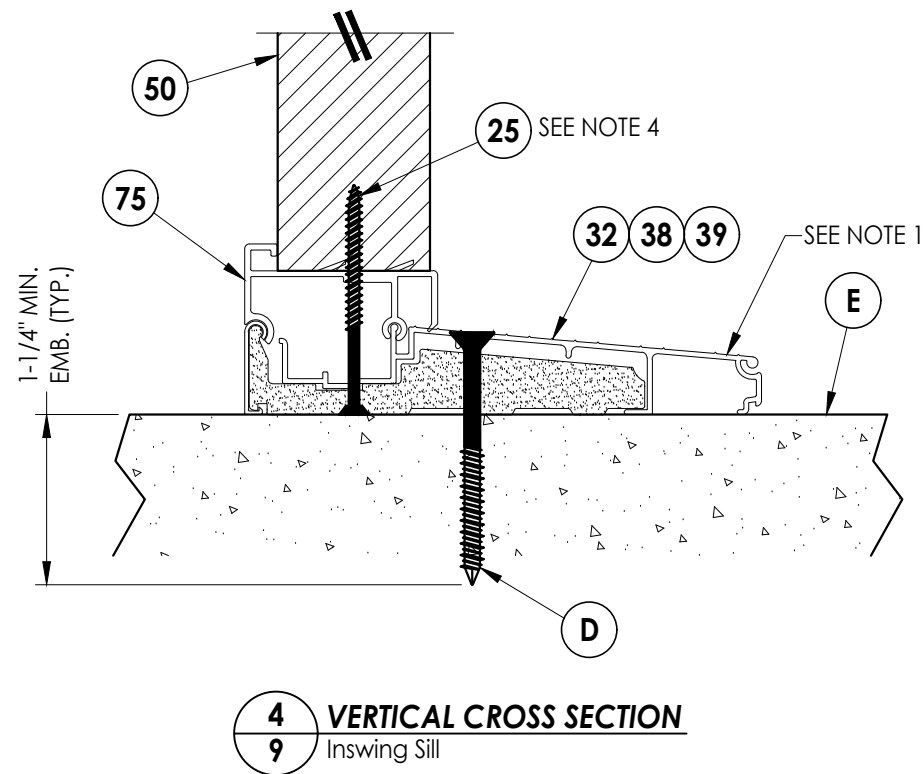
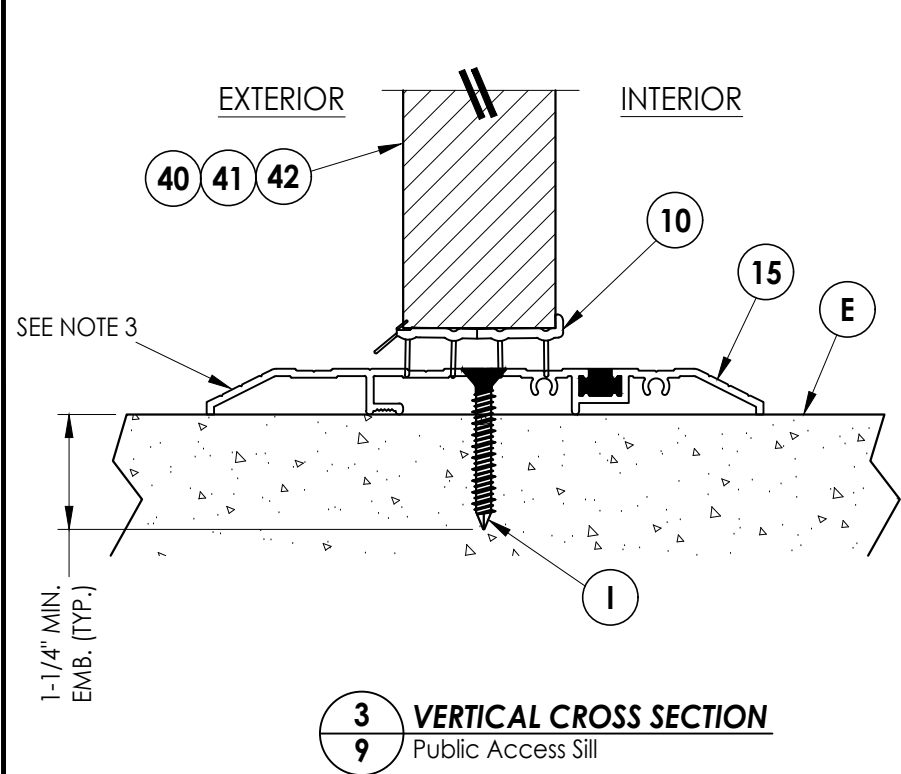
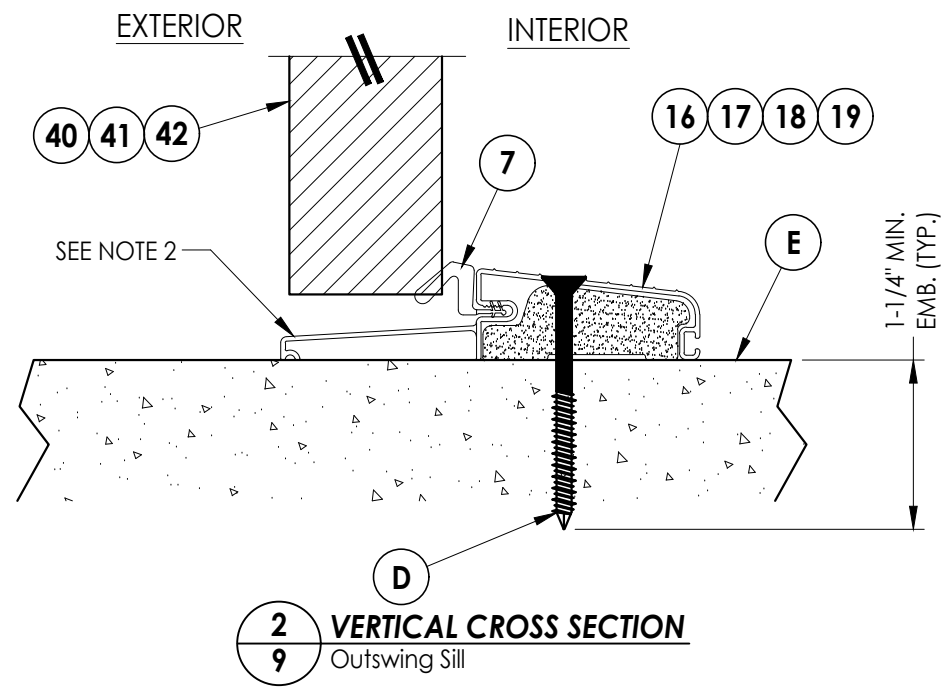
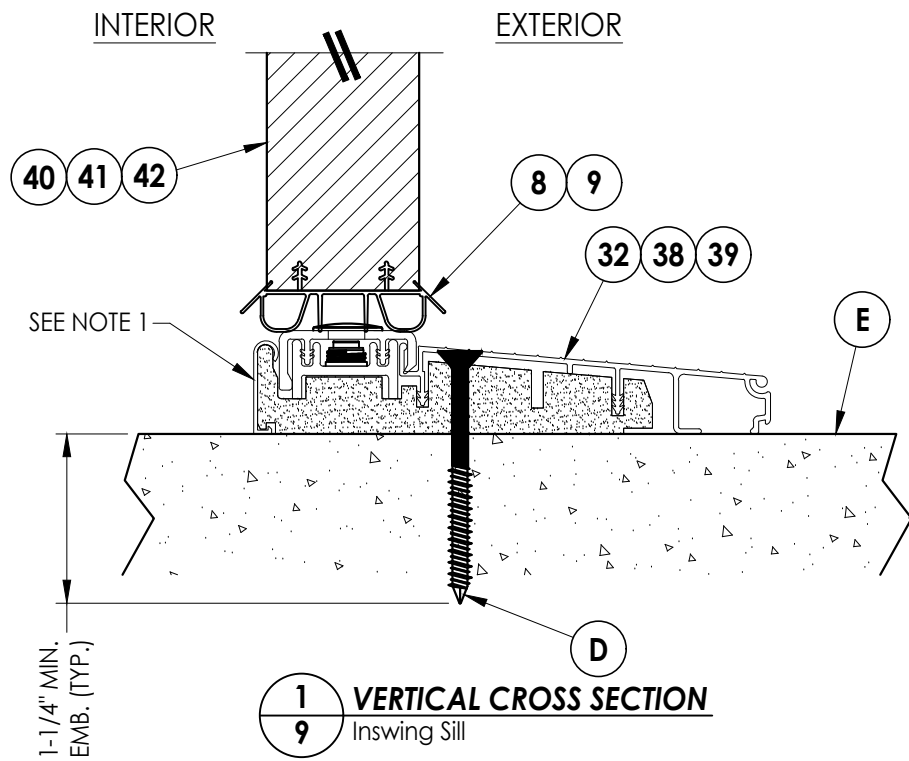
DRAWING NO.:

FL-17540.2

SHEET 8 OF 15

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- Notes:
1. Sill Item #'s 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws or (3) 2.5" staples at each end.
 2. Sill Item #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
 3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
 4. Sidelite assembly screws located 4" from each end (2 screws along Sill).



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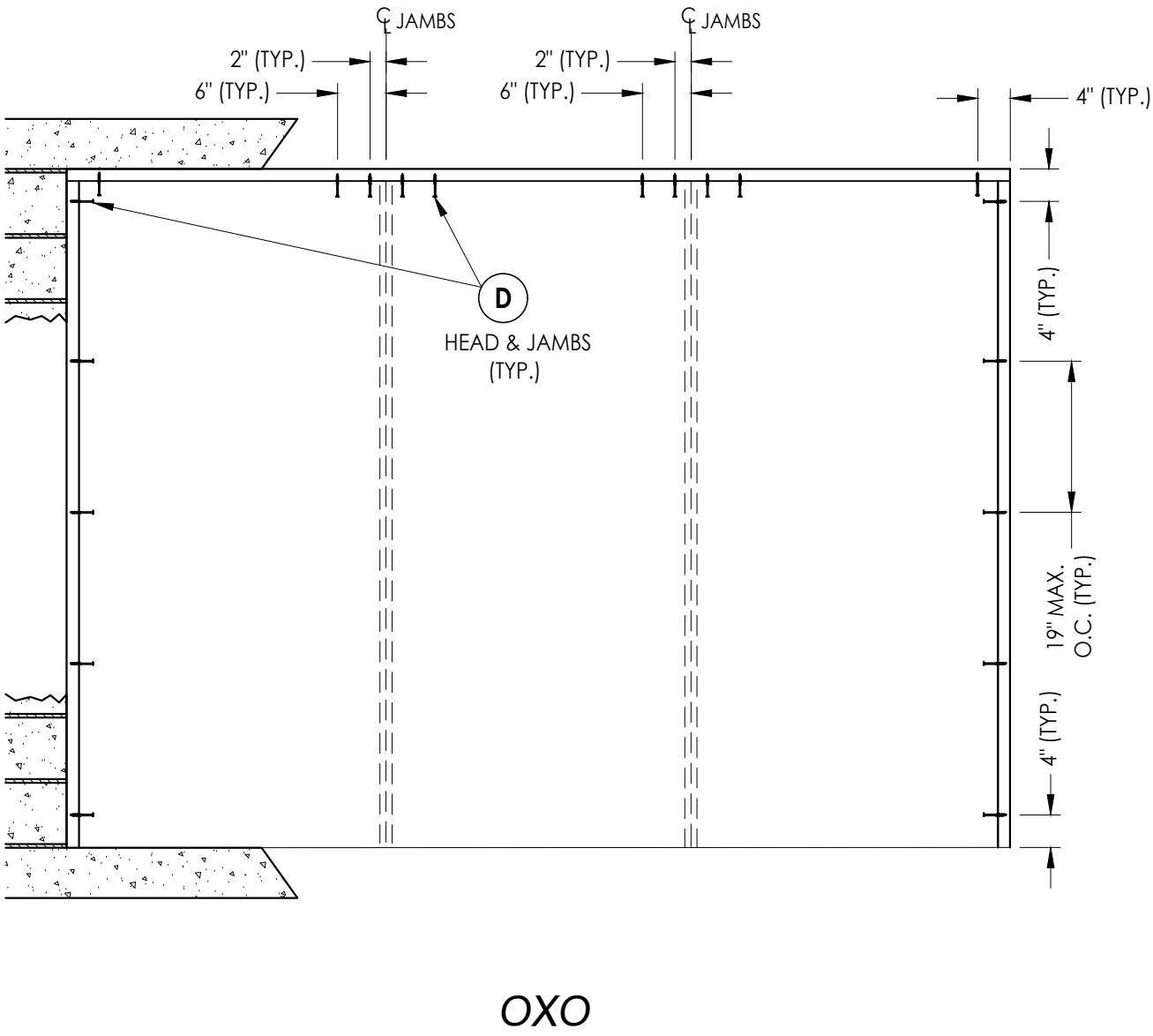
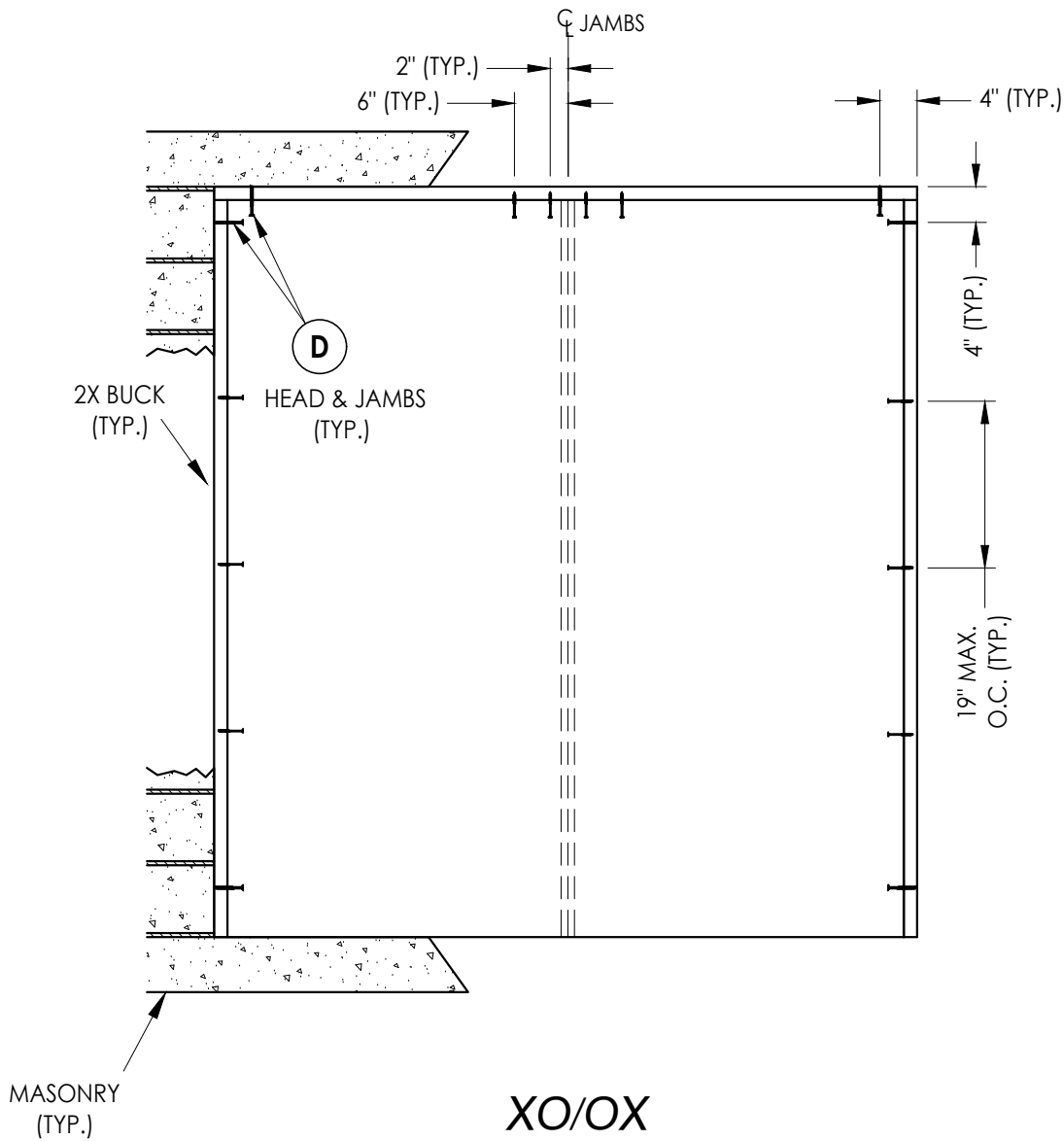
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS			
		DATE	BY	DESCRIPTION	
6	7/03/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
4	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS	

DATE: 4/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17540.2
SHEET 9 OF 15



2X BUCK ANCHORING

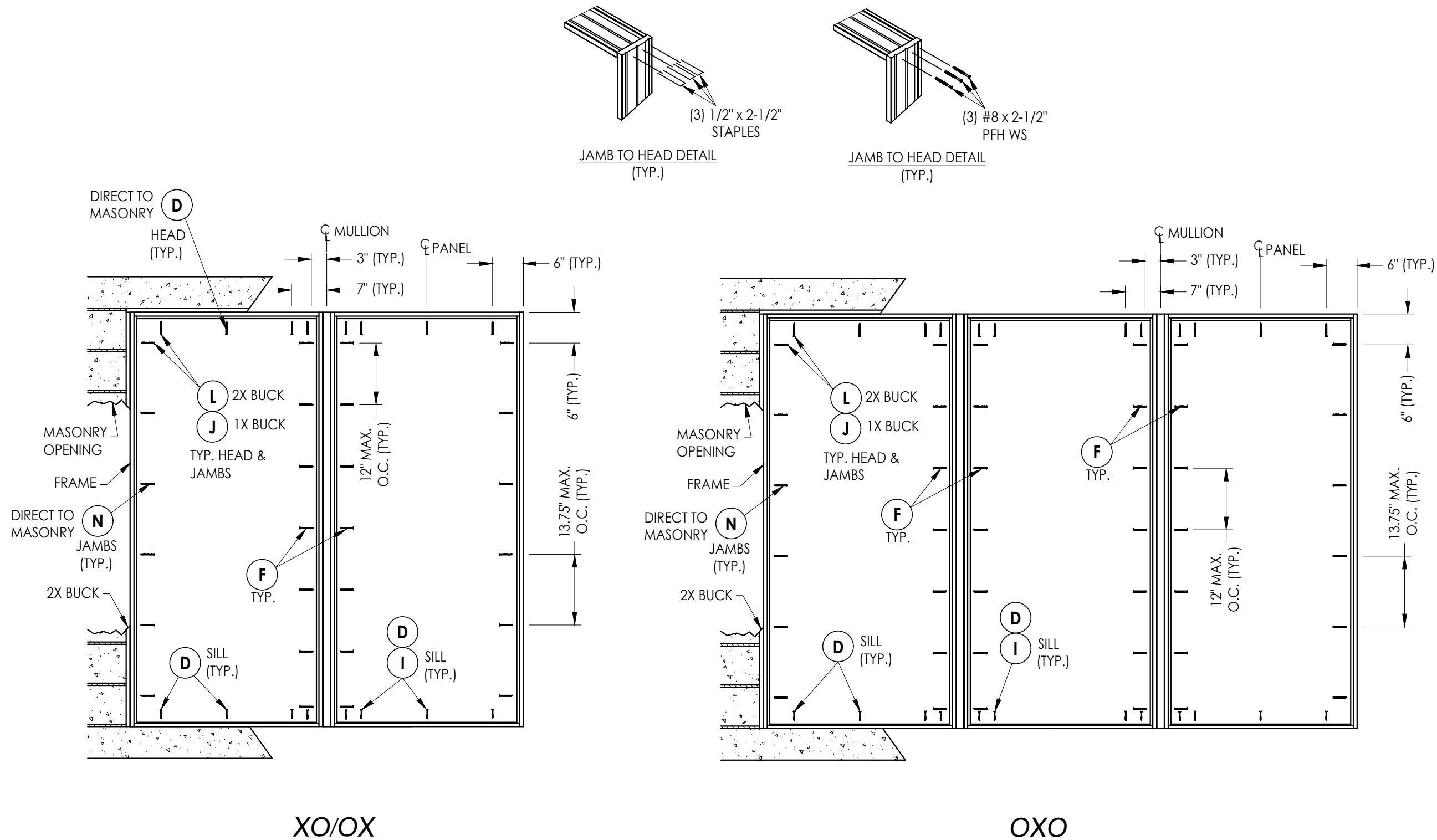
DATE: 4/28/15	
SCALE: N.T.S.	
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.: FL-17540.2	
SHEET	10 OF 15

REVISIONS	
NO.	DATE
6	7/03/26
5	7/17/23
4	7/14/20

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

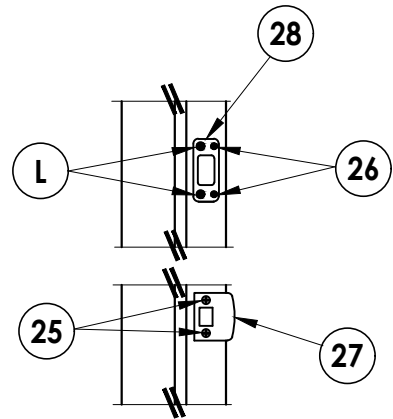
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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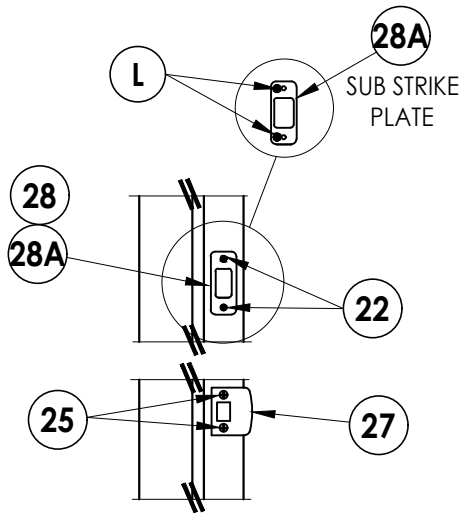


FRAME ANCHORING

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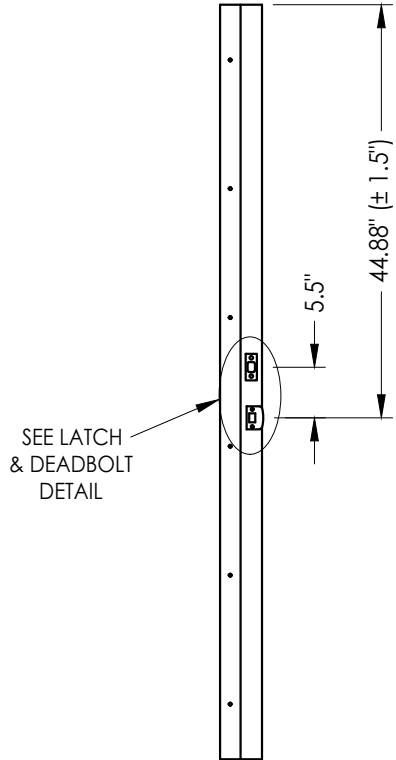


LATCH & DEADBOLT DETAIL
Kwikset

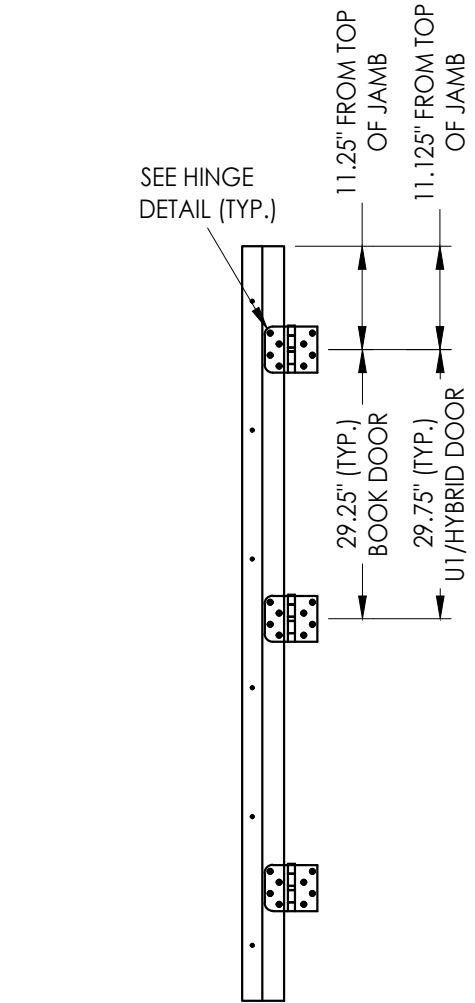


LATCH & DEADBOLT DETAIL
Schlage

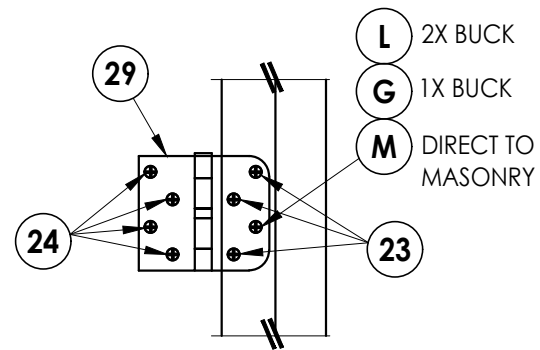
LATCH & DEADBOLT STRIKE DETAILS



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



HINGE DETAIL

6	7/03/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
5	7/17/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
4	7/14/20	UPDATE TO 7th ED	(2020)	FBC	LFS
NO.	DATE				
					REVISIONS

DATE: 4/28/15

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17540.2

SHEET 12 OF 15

Documents Prepared By:
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P.E. No. 43409

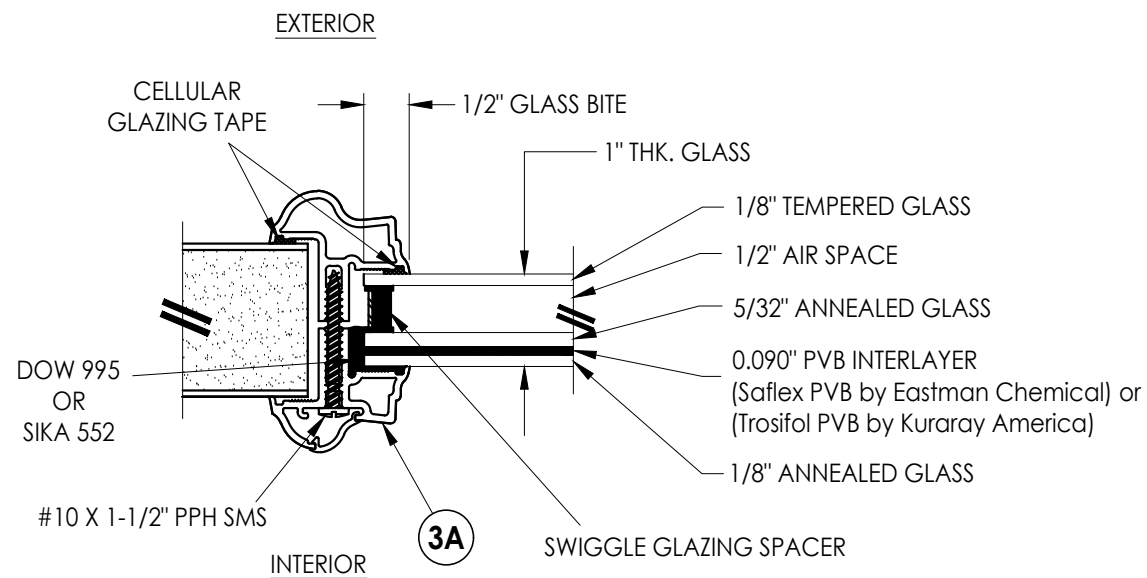
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

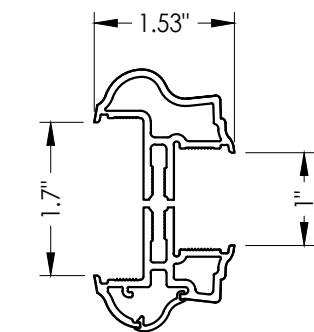
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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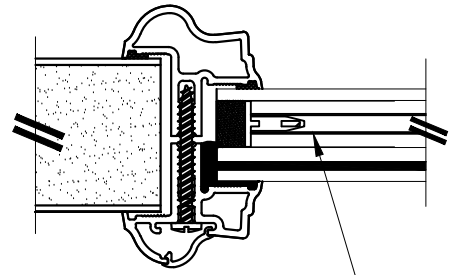
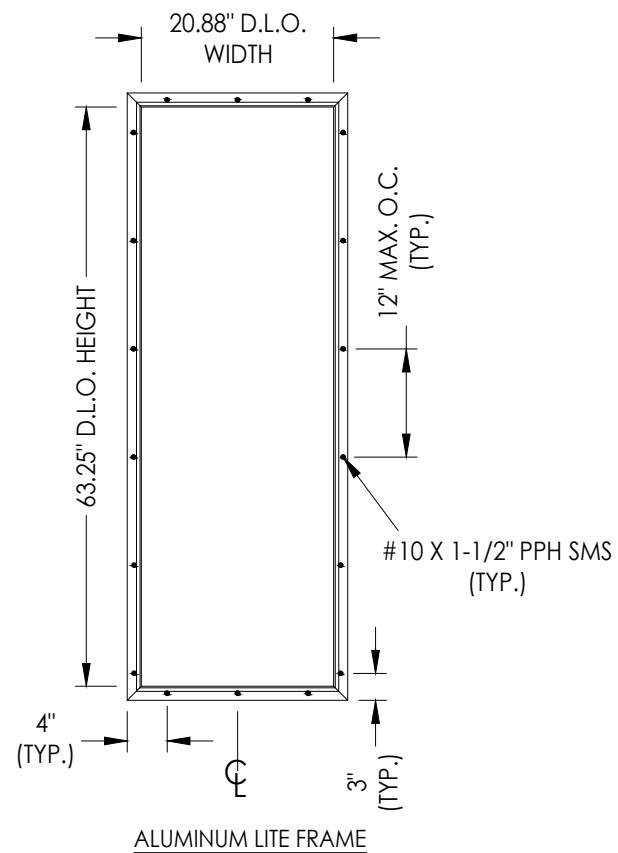
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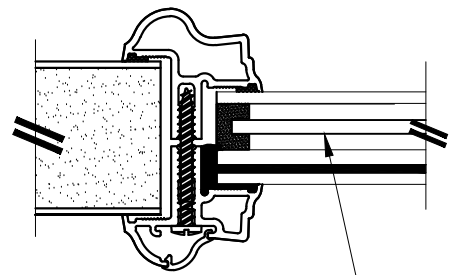
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



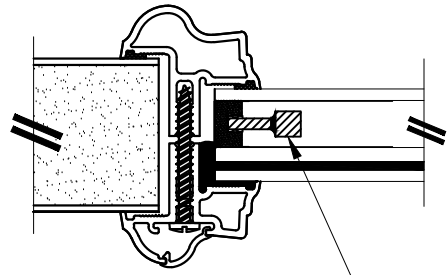
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



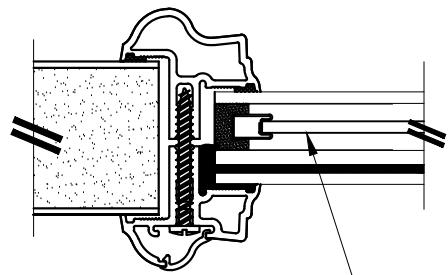
INTERNAL GRID (GBG)



PRIVACY INSERT



WROUGHT IRON INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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PRODUCT: **THERMA-TRU
FIBERGLASS DOOR**

PART OR ASSEMBLY:

GLAZING DETAILS

NO.	DATE	REVISIONS		
		DATE	BY	REVISIONS
6	7/03/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS

DATE: 4/28/15

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DWG. BY: JK

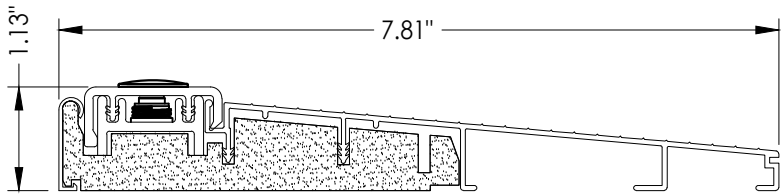
CHK. BY: LFS

DRAWING NO.:

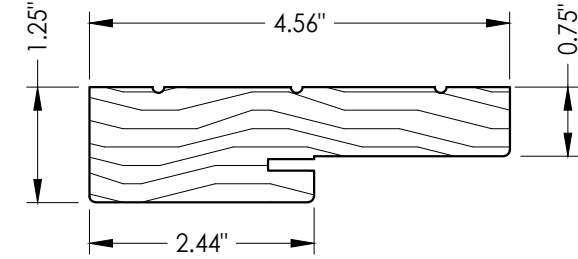
FL-17540.2

SHEET 13 OF 15

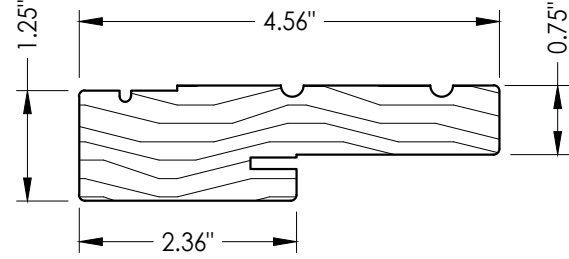
Z:\2023 FBC Drawings\Therma-Tru\FL-17540 R7\FL-17540.1-4.dwg



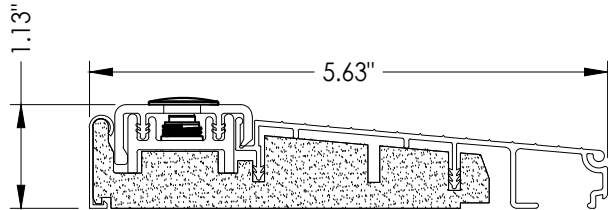
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



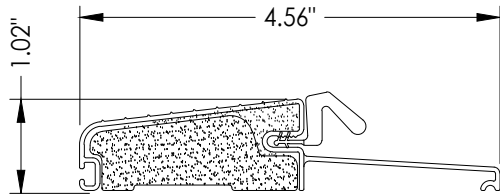
1 WOOD JAMB



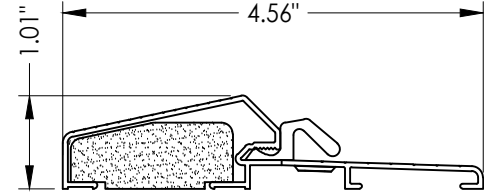
2 WOOD JAMB



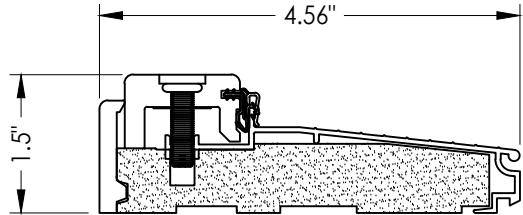
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



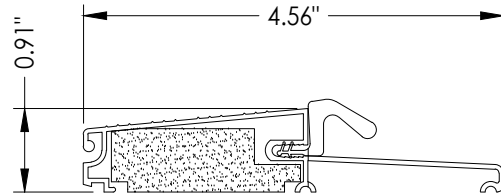
16 OUTSWING THRESHOLD
Composite Sill



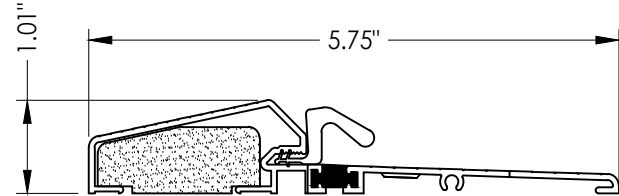
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



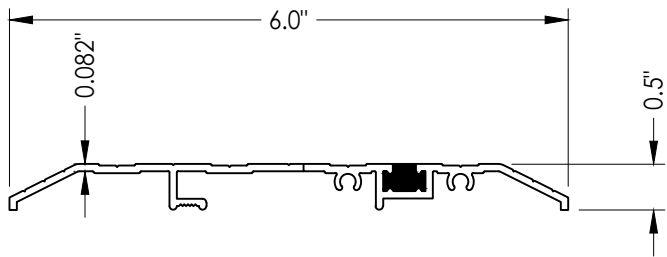
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



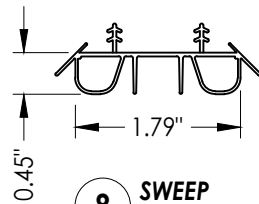
19 OUTSWING THRESHOLD
Composite Sill



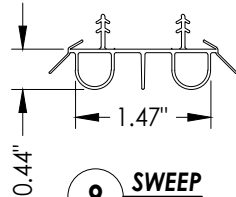
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



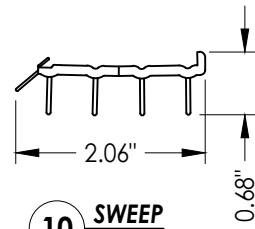
15 PUBLIC ACCESS THRESHOLD



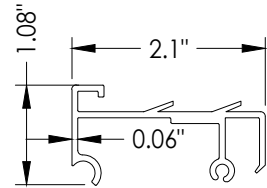
8 SWEEP



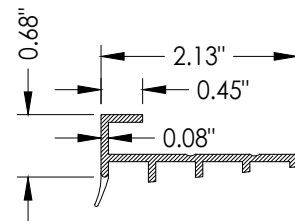
9 SWEEP



10 SWEEP



75 SIDELITE SPACER



76 SIDELITE SPACER

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:

COMPONENTS

NO.	DATE	REVISIONS			
		BY	LFS	FBC	(2020)
6	7/03/26	UPDATE TO 9TH ED.	FBC	FBC	(2026)
5	7/17/23	UPDATE TO 8TH ED.	FBC	FBC	(2023)
4	7/14/20	UPDATE TO 7TH ED.	FBC	FBC	(2020)

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-17540.2

SHEET 14 OF 15

Z:\2023 FBC Drawings\Therma-Tru\FL-17540 R7\FL-17540.1-4.dwg

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 ELCO 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" ITW CONCRETE SCREW	STEEL
I	1/4" X 1-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
K	1/2" X 1" X 25 GA. CORRUGATED FASTENER	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
X	2X MULLION	WOOD
1	JAMB (FINGER JOINT PINE)	WOOD
2	JAMB (FINGER JOINT PINE)	WOOD
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
8	SWEEP	VINYL
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP
19	OUTSWING THRESHOLD	ALUM/COMP
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

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
26	#8 x 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
34	INTERIOR MULL CASING	WOOD
35	EXTERIOR MULL CASING	WOOD
38	INSWING THRESHOLD	ALUM/COMP
39	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE	-
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC

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.

CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- 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.
- 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"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

WOOD SCREW INSTALLATION NOTES:

- 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		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: BILL OF MATERIALS	
6	7/03/26	UPDATE TO 9TH ED. (2026)	FBC
5	7/17/23	UPDATE TO 8TH ED. (2023)	FBC
4	7/14/20	UPDATE TO 7th ED (2020)	FBC
NO.	DATE		BY
REVISIONS			
DATE: 4/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-17540.2			
SHEET 15 OF 15			