

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

Technical drawings of two door styles with dimensions:

- Left Door Style:**
 - 82" MAX. O.A. FRAME HEIGHT (INSWING)
 - 81.25" MAX. O.A. FRAME HEIGHT (OUTSWING)
 - 53.25" MAX O.A. FRAME WIDTH
 - 15.5" MAX. FRAME WIDTH
 - 37.75" MAX FRAME WIDTH
- Right Door Style:**
 - 68.75" MAX O.A. FRAME WIDTH
 - 15.5" MAX. FRAME WIDTH
 - 37.75" MAX FRAME WIDTH

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.
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. Benchmark Door and Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

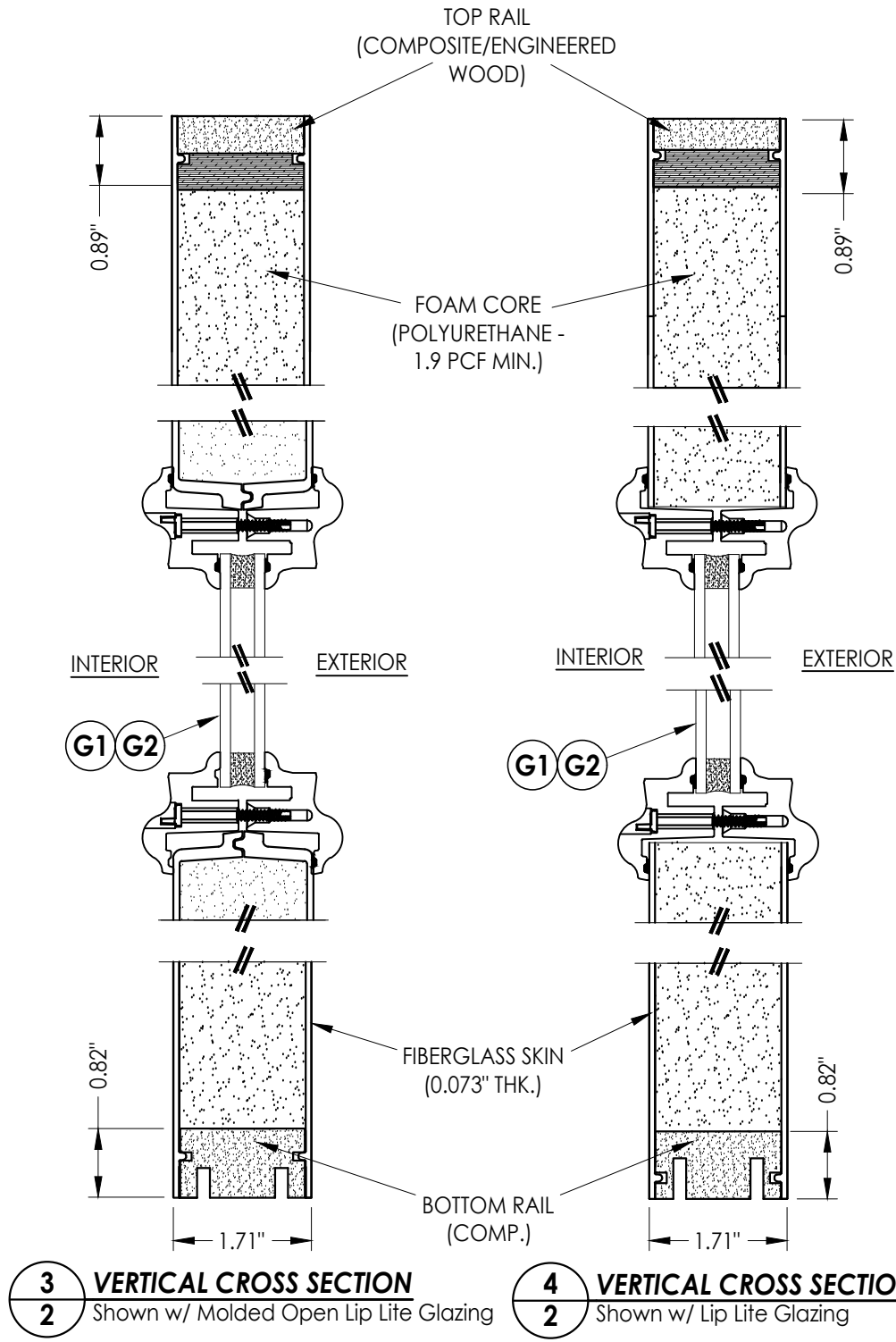
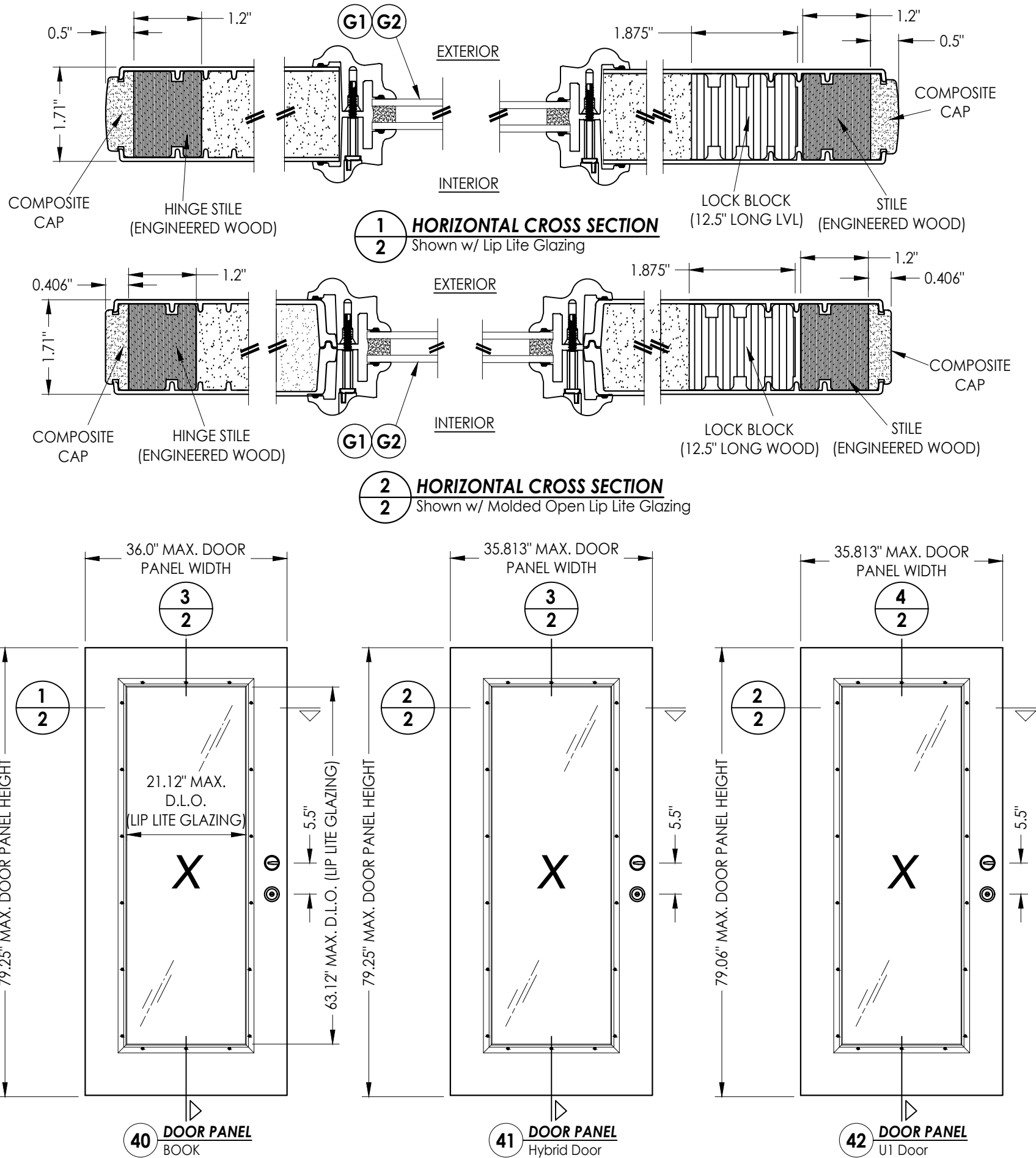
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8	Horizontal & Vertical Cross Sections (Direct to Masonry)		

CONFIGURATION	DESIGN PRESSURE (PSF) IN SWING		DESIGN PRESSURE (PSF) OUT SWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+47.0	-47.0	+47.0	-47.0

See Sheet 5 for Hardware Specifications

PRODUCT: THERMA-TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
3	7/2/26	UPDATE TO 9TH ED. (2026)	FBC LFS
2	8/21/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	7/16/20	UPDATE TO 7th ED (2020)	FBC PO
NO.	DATE		BY
REVISIONS			
DATE: 03/07/20			
SCALE: N.T.S.			
DWG. BY: TJ			
CHK. BY: LFS			
DRAWING NO.: FL-21135.15			
SHEET 1 OF 15			

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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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
3	7/2/26	UPDATE TO 9TH ED. (2026) FBC LFS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/16/20	UPDATE TO 7th ED (2020) FBC PO
		BY

DATE: 03/07/20

SCALE: N.T.S.

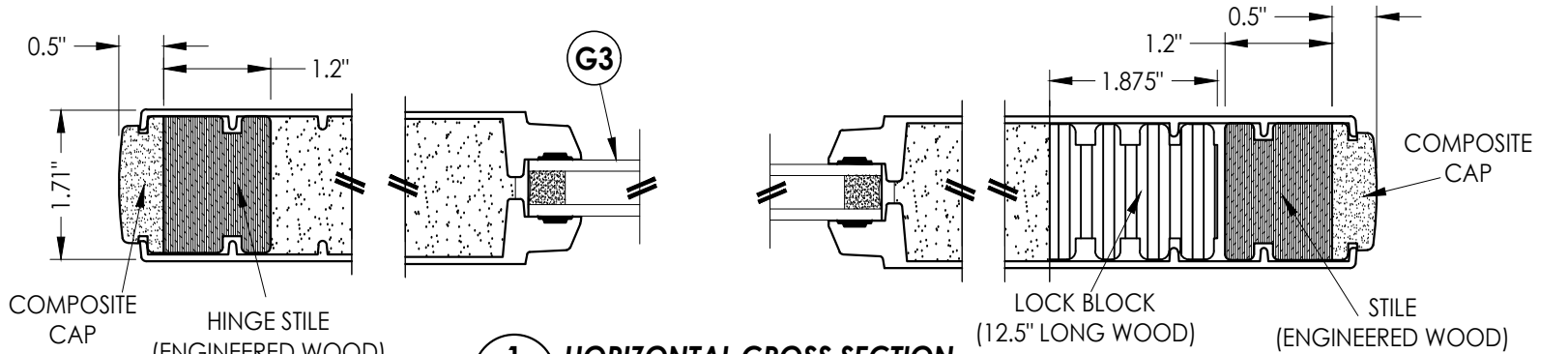
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CHK. BY: LFS

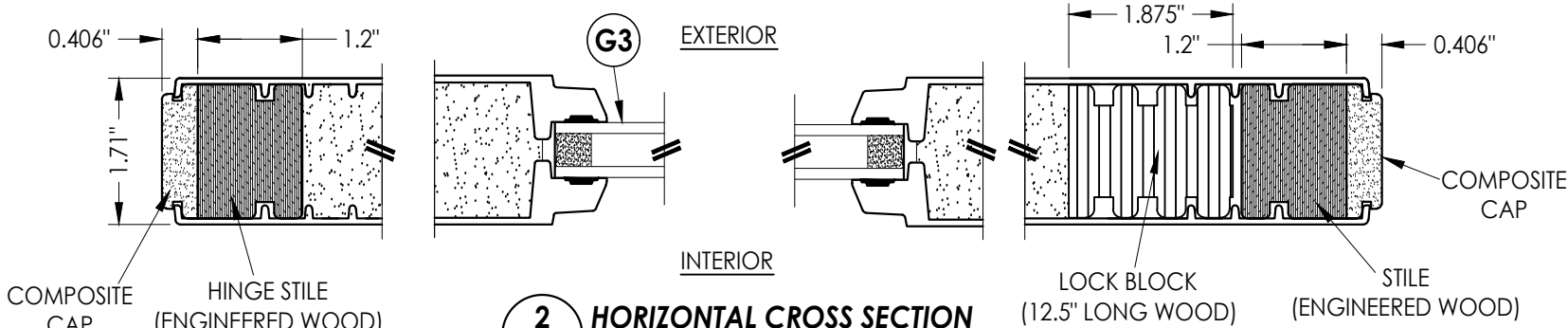
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SHEET 2 OF 15

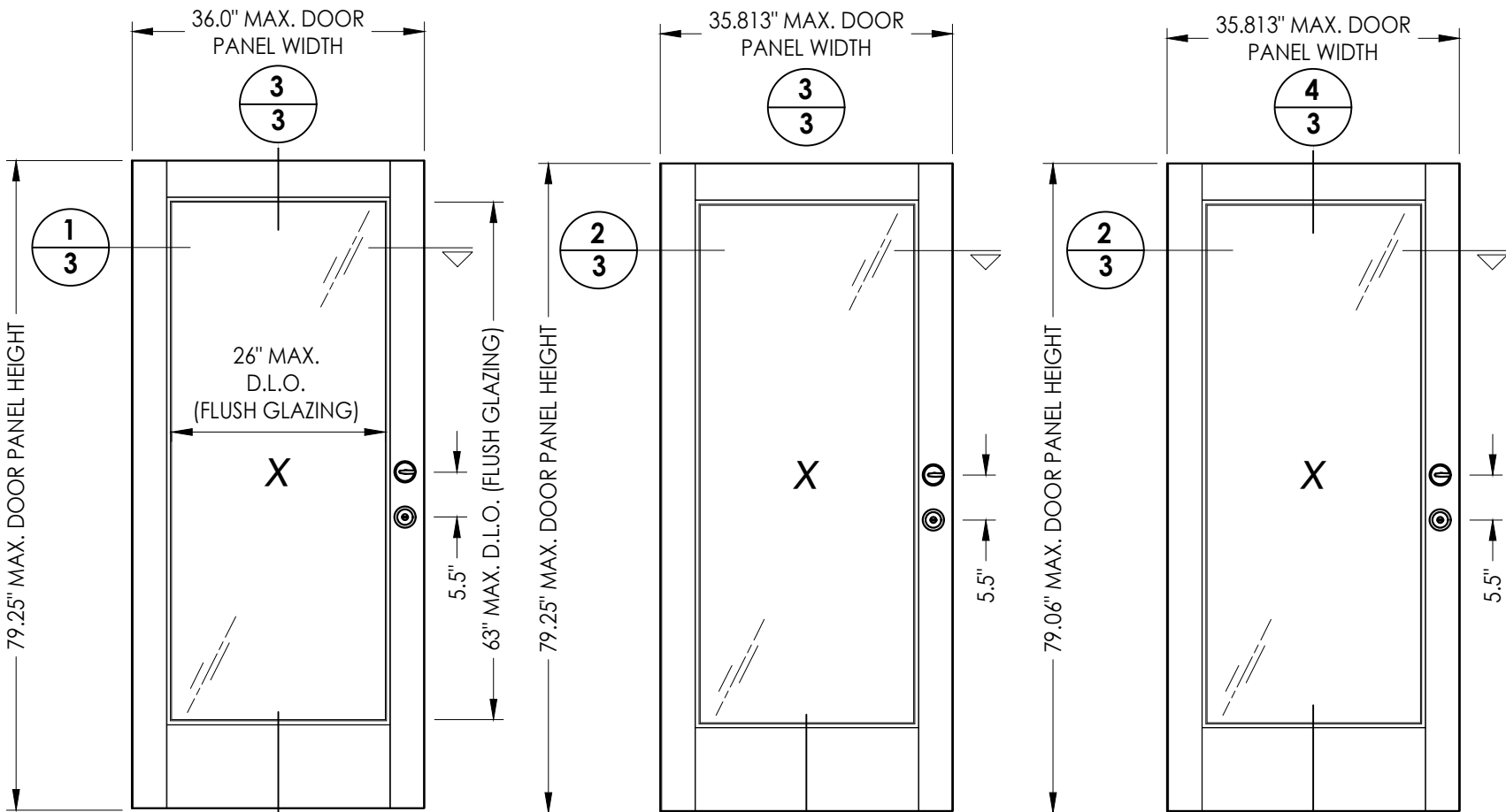
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1 HORIZONTAL CROSS SECTION
3 Shown w/ Flush Glazing



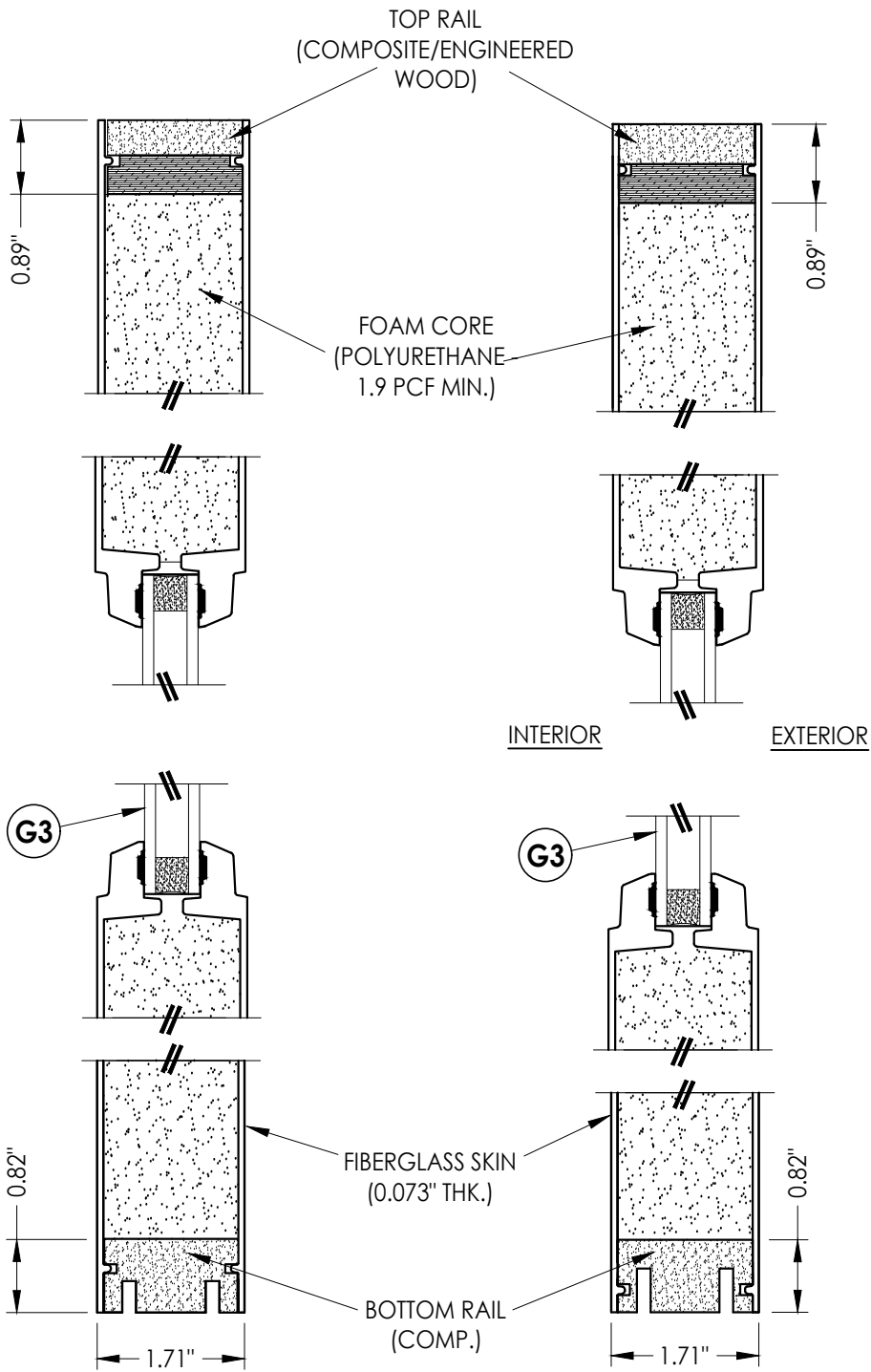
2 HORIZONTAL CROSS SECTION
3 Shown w/ Flush Glazing



43 DOOR PANEL
BOOK

44 DOOR PANEL
Hybrid Door

45 DOOR PANEL
U1 Door



3 VERTICAL CROSS SECTION
3 Shown w/ Flush Glazing

4 VERTICAL CROSS SECTION
3 Shown w/ Flush Glazing

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RW

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FIBERGLASS DOOR

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DOOR PANEL DETAILS

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1	7/16/20	UPDATE TO 7th ED (2020) FBC

DATE: 03/07/20

SCALE: N.T.S.

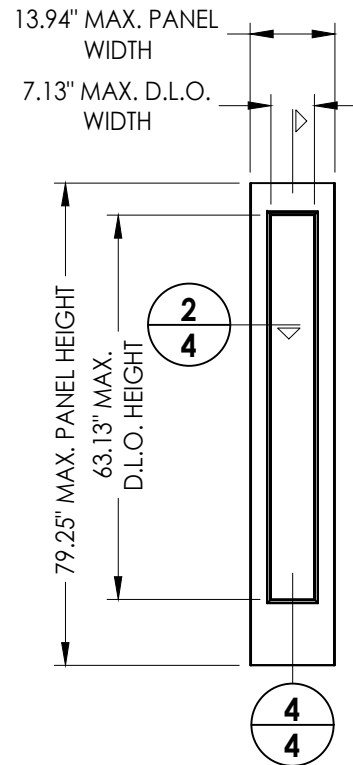
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CHK. BY: LFS

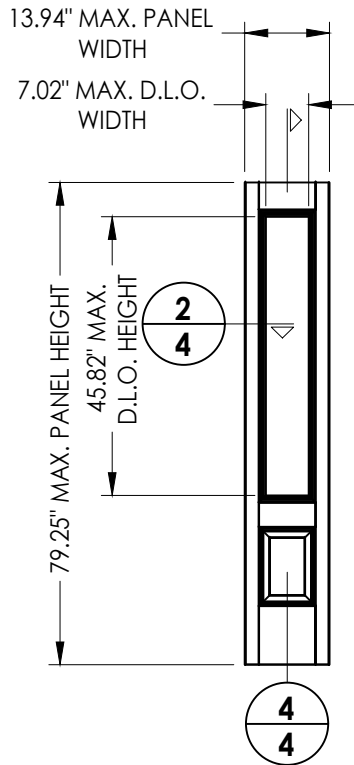
DRAWING NO.: FL-21135.15

SHEET 3 of 15

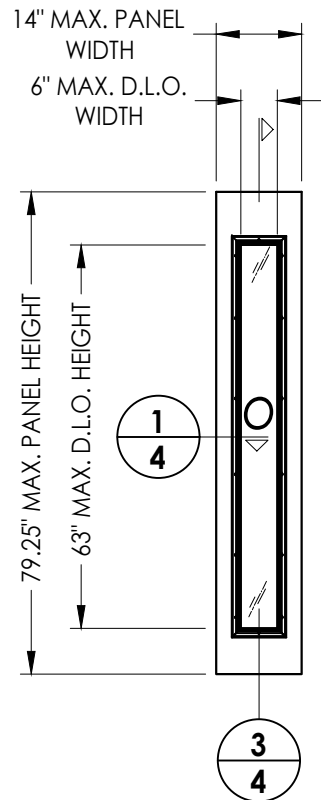
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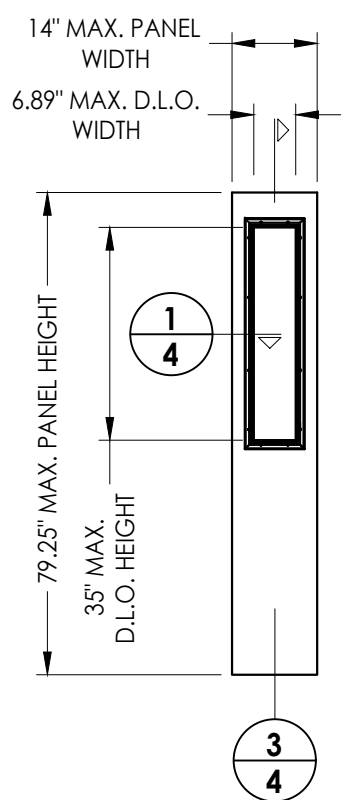
60 SIDELITE PANEL
Full Lite
Flush Glazed



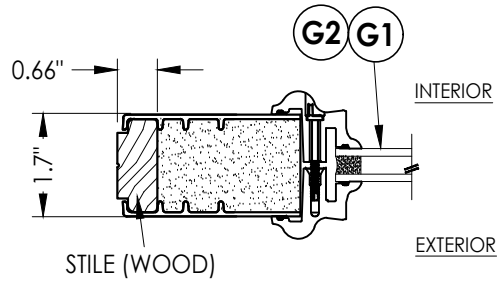
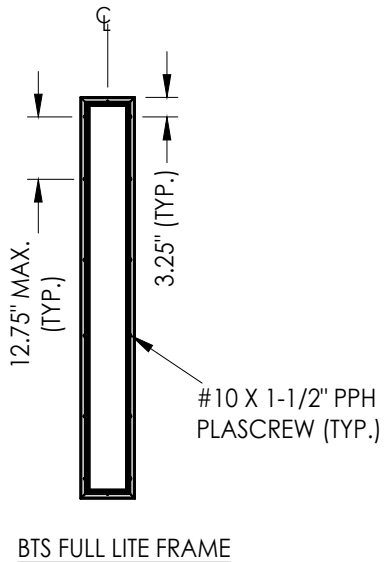
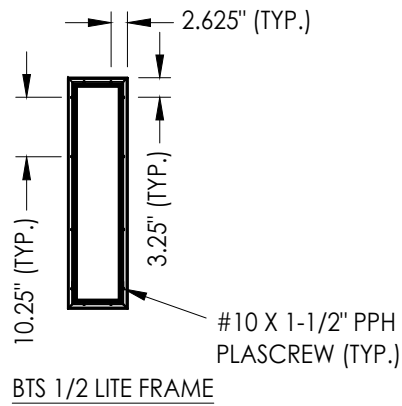
60 SIDELITE PANEL
3/4 Lite
Flush Glazed



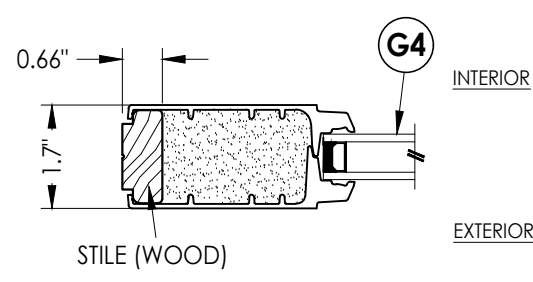
50 SIDELITE PANEL
Full Lite
Lip Lite



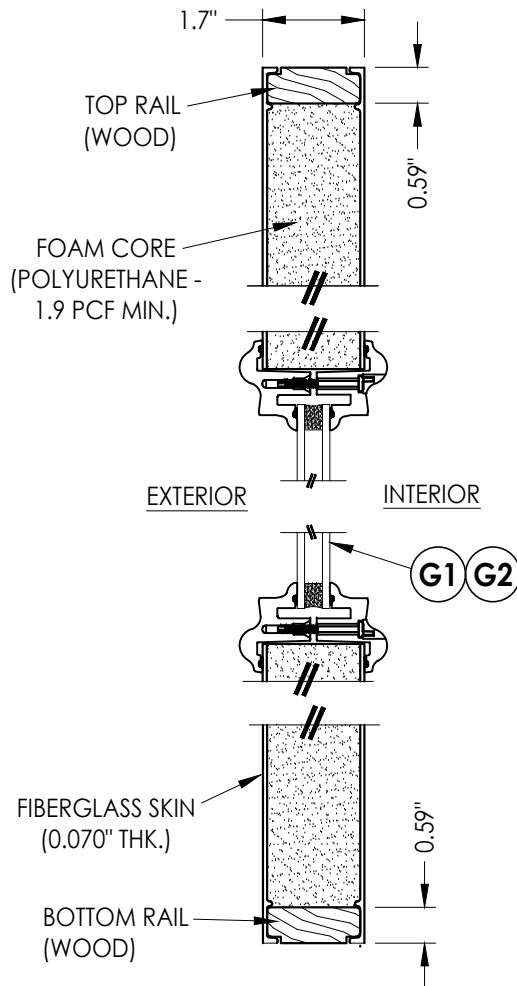
50 SIDELITE PANEL
Half Lite
Lip Lite



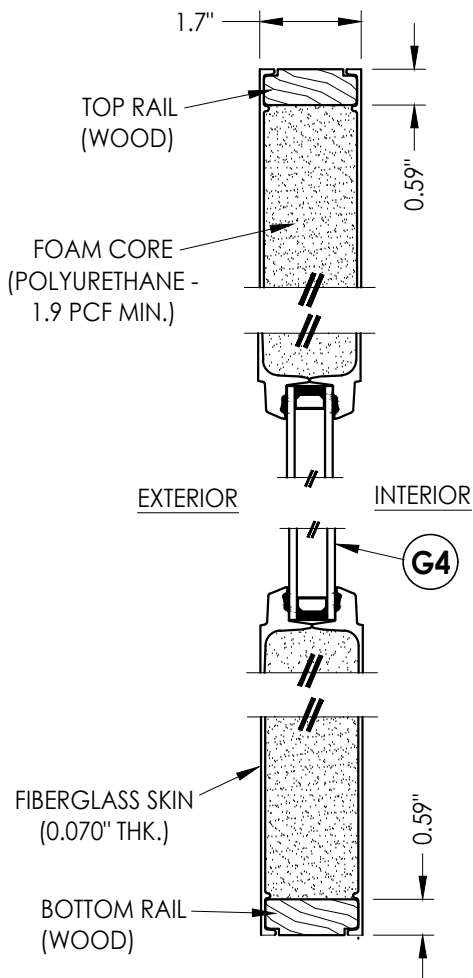
1/4 HORIZONTAL CROSS SECTION
Lip Lite Glazing



2/4 HORIZONTAL CROSS SECTION
Flush Glazing



3/4 VERTICAL CROSS SECTION
Lip Lite Glazing Shown



4/4 VERTICAL CROSS SECTION
Flush Glazing Shown

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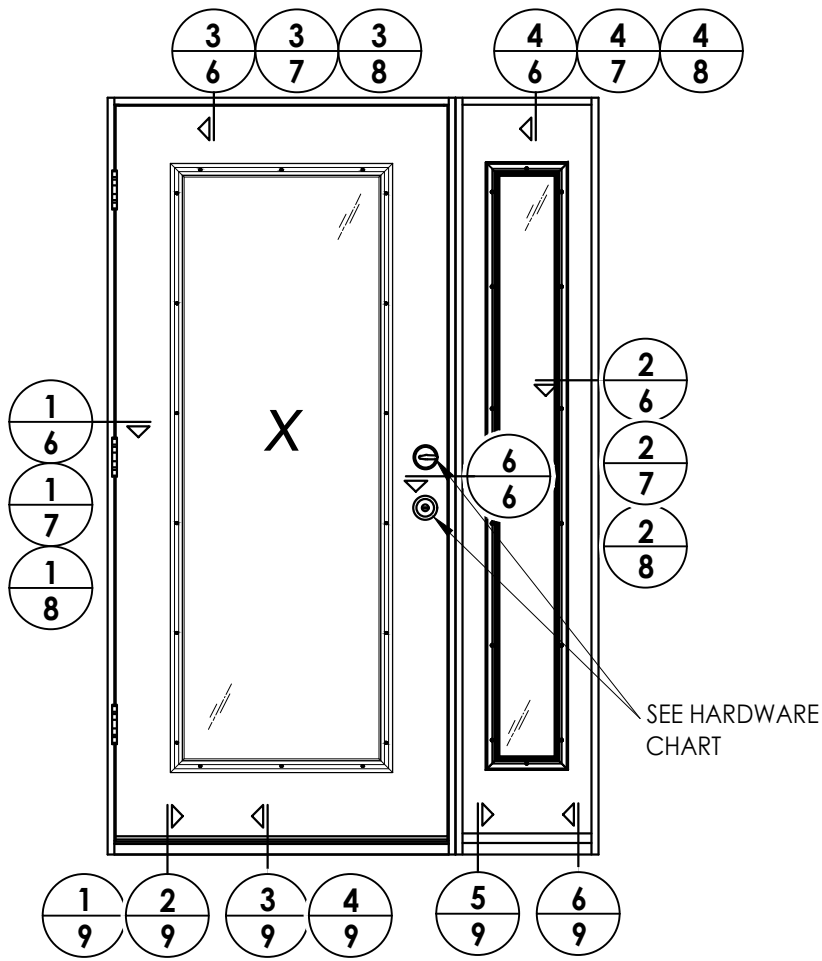
PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

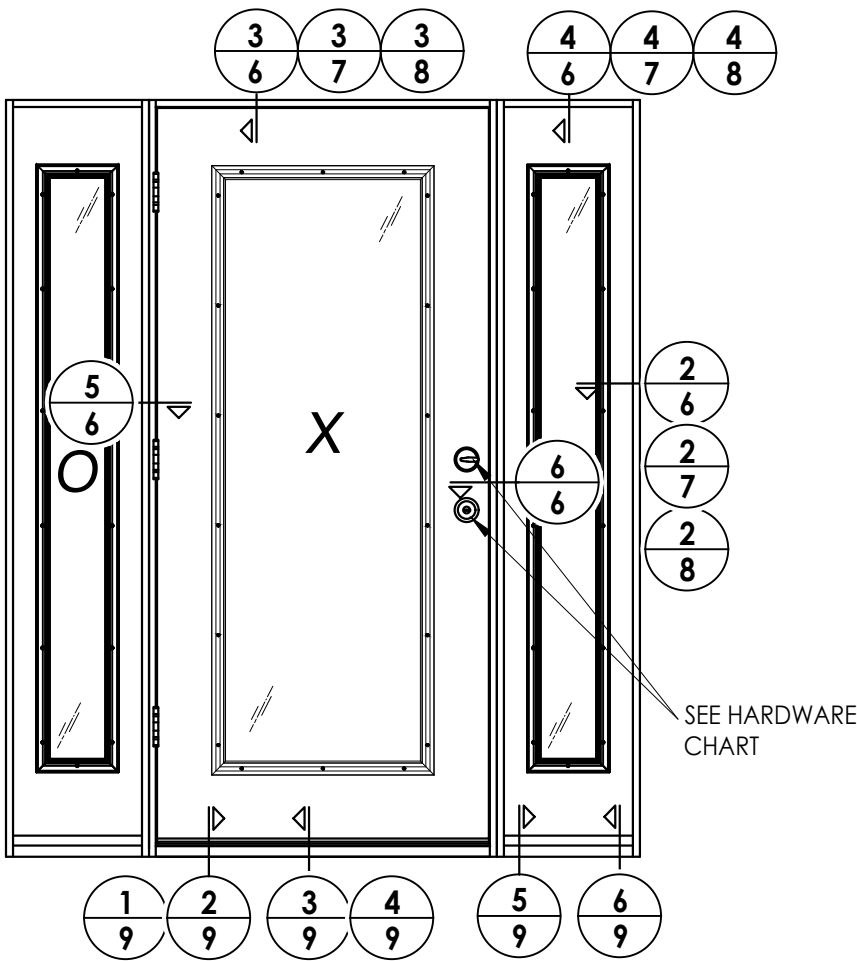
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DWG. BY: TJ
CHK. BY: LFS
DRAWING NO.: FL-21135.15
SHEET 4 OF 15

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FBPE Registry No. 9813

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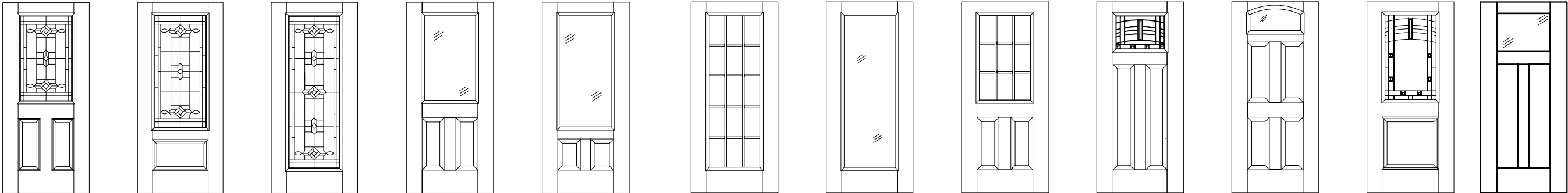


ELEVATION
XO



ELEVATION
OXO

HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)



Benchmark 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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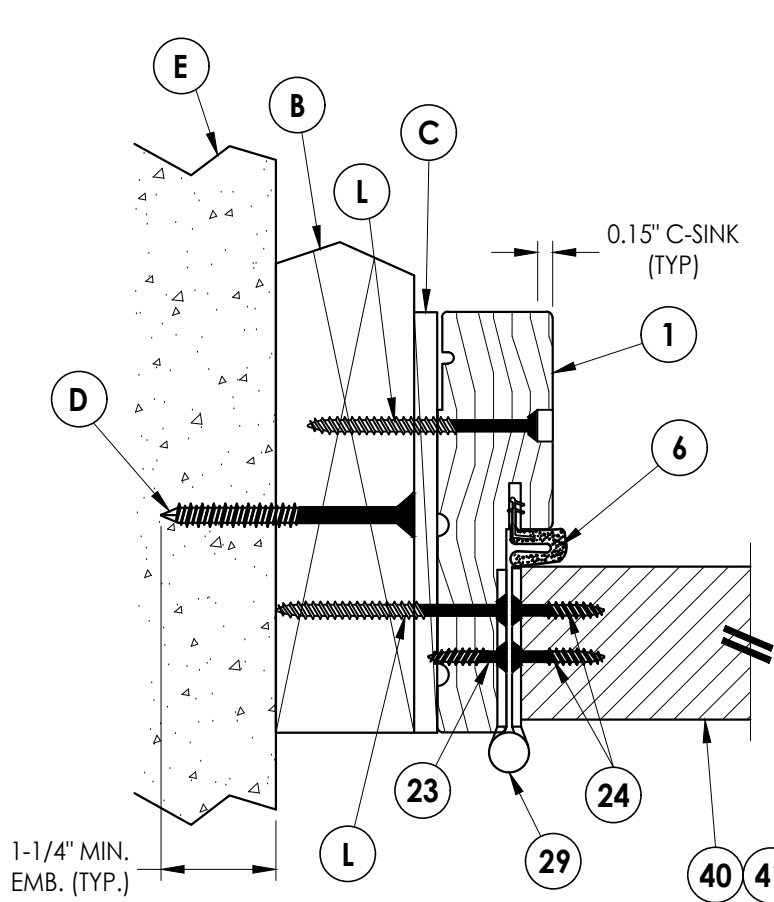
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

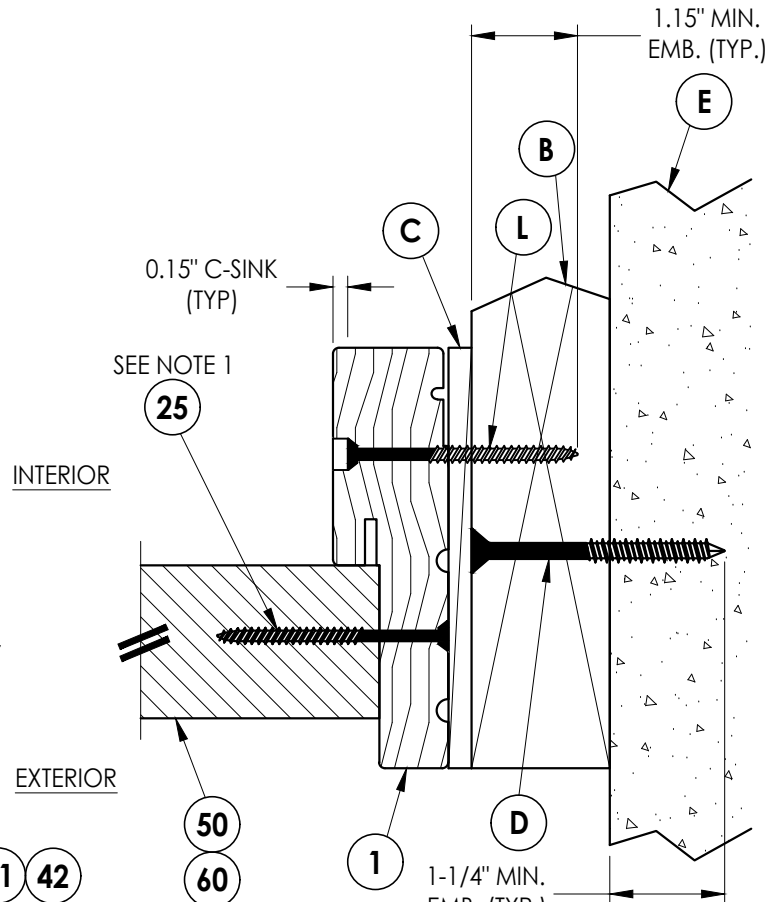
NO.	DATE	REVISIONS		
		DATE	BY	DESCRIPTION
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SCALE: N.T.S.
DWG. BY: TJ
CHK. BY: LFS
DRAWING NO.: FL-21135.15
SHEET 5 OF 15

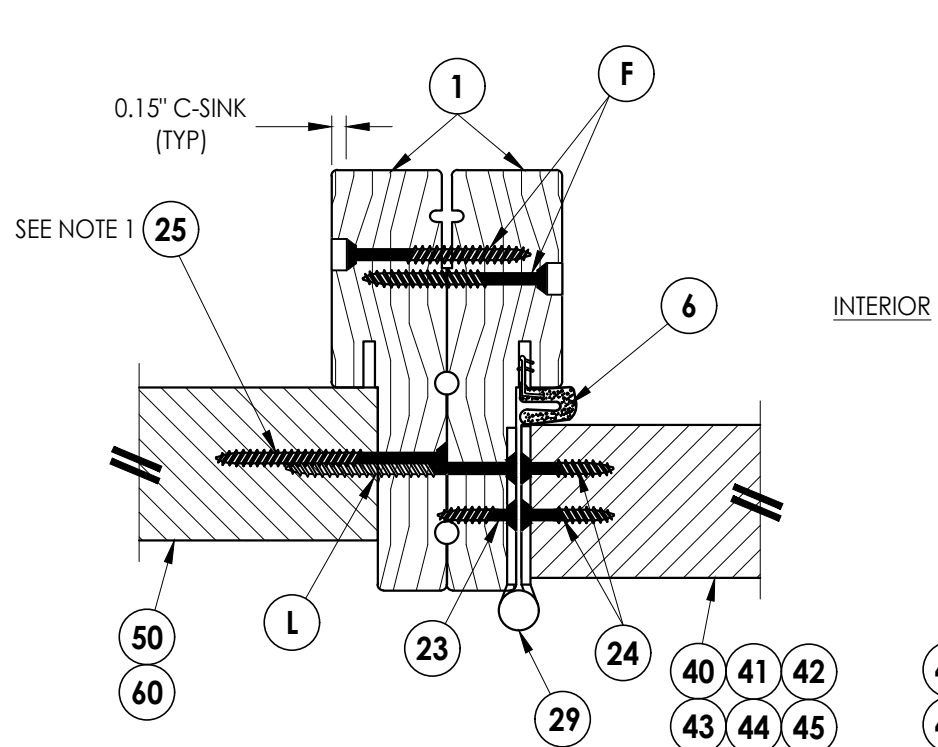
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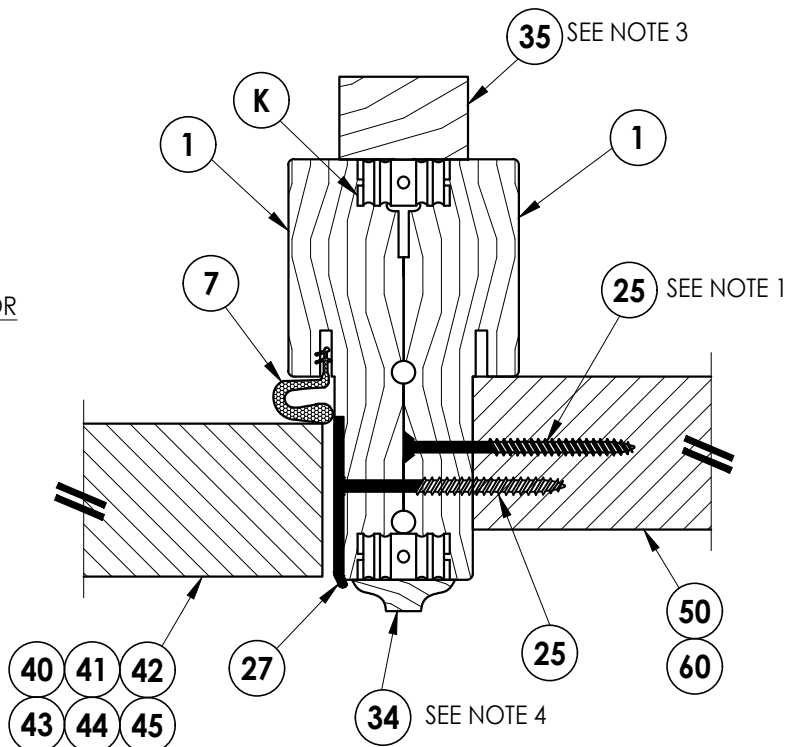
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



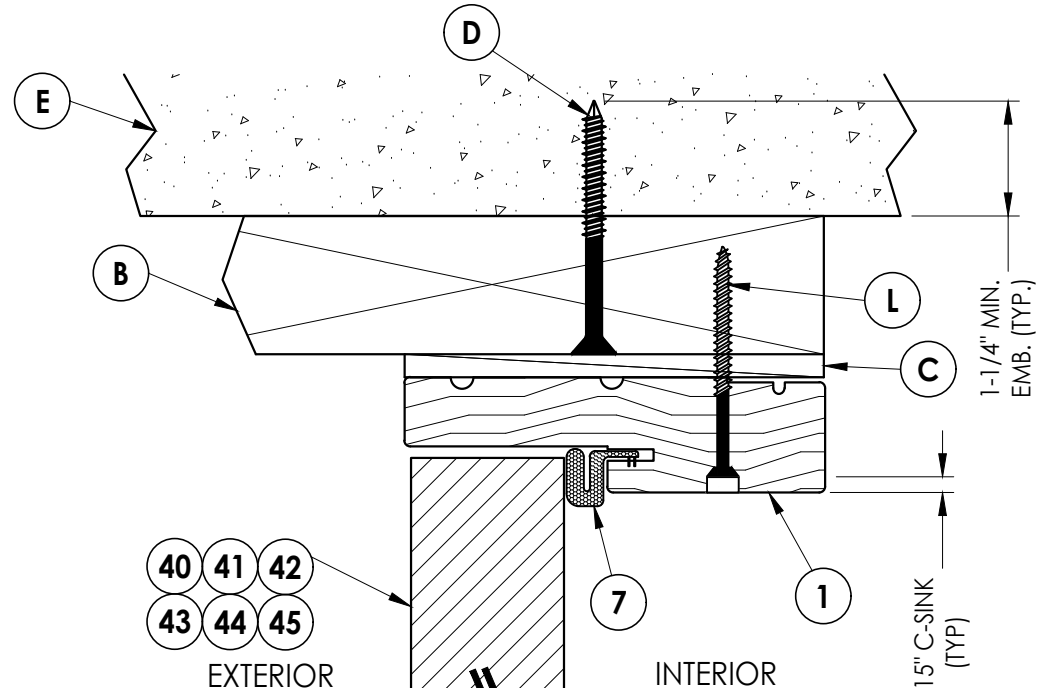
5
6 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)



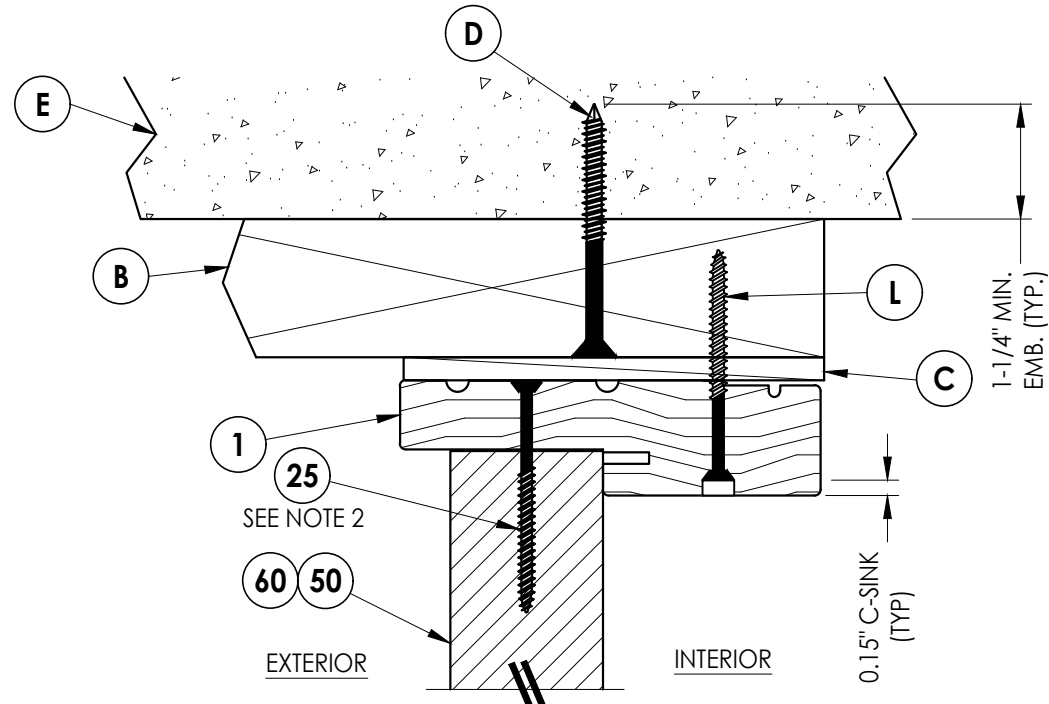
6
6 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)

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. Attach exterior casing optional w/ 2-2" Brad nails 16" O.C.
4. Attach interior casing optional w/ 2-1" Brad nails 16" O.C.



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



4
6 **VERTICAL CROSS SECTION**
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)

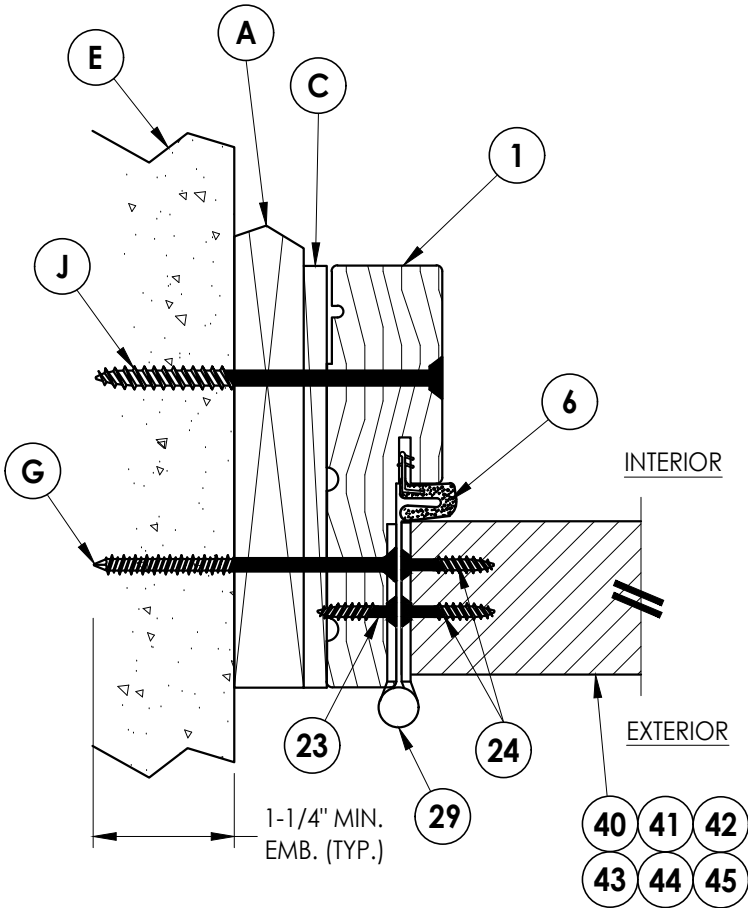
NO.	DATE	REVISIONS	BY
3	7/2/26	UPDATE TO 9TH ED. (2026) FBC	LFS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/16/20	UPDATE TO 7th ED (2020) FBC	PO

DATE: 03/07/20
SCALE: N.T.S.
DWG. BY: TJ
CHK. BY: LFS
DRAWING NO.: FL-21135.15
SHEET 6 OF 15

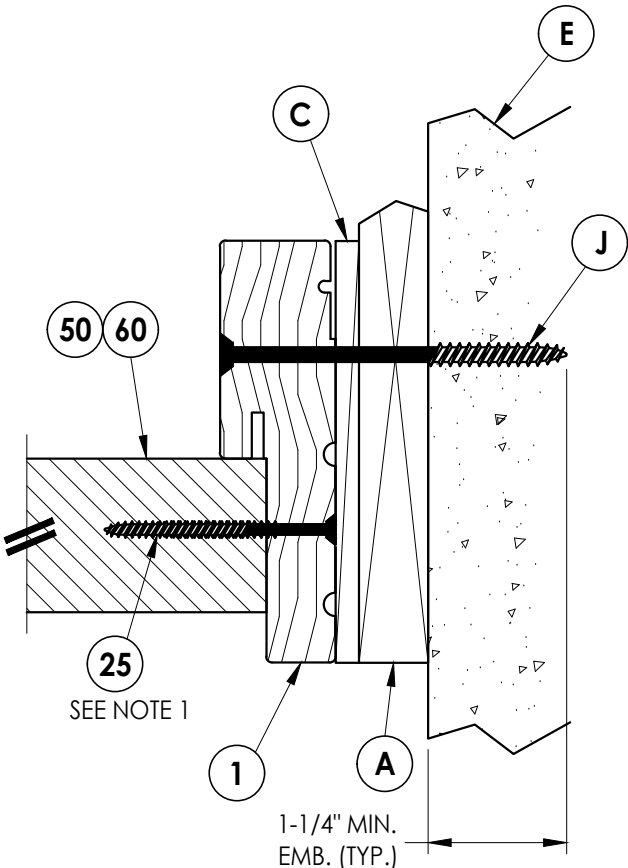
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Notes:

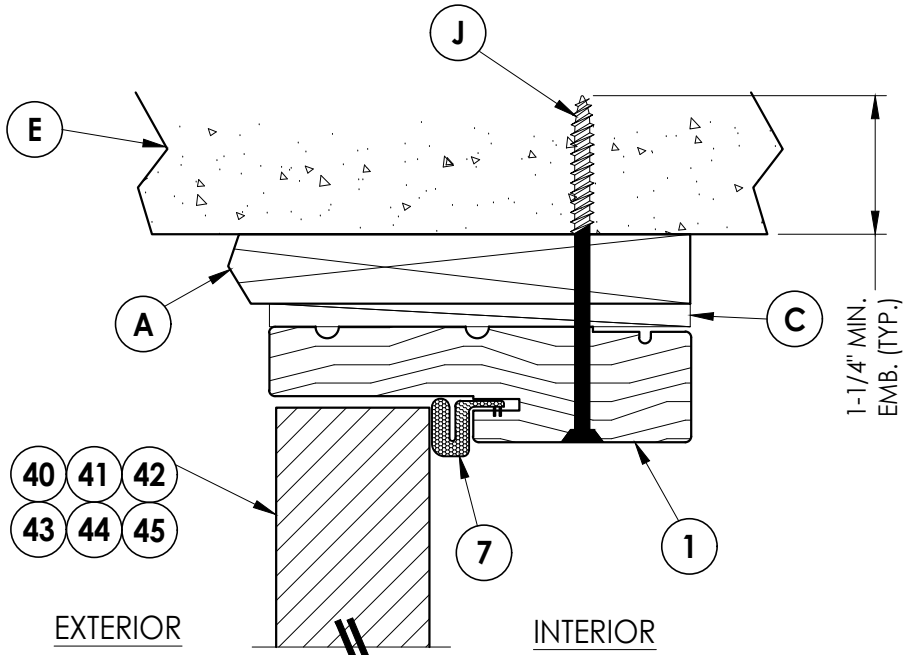
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



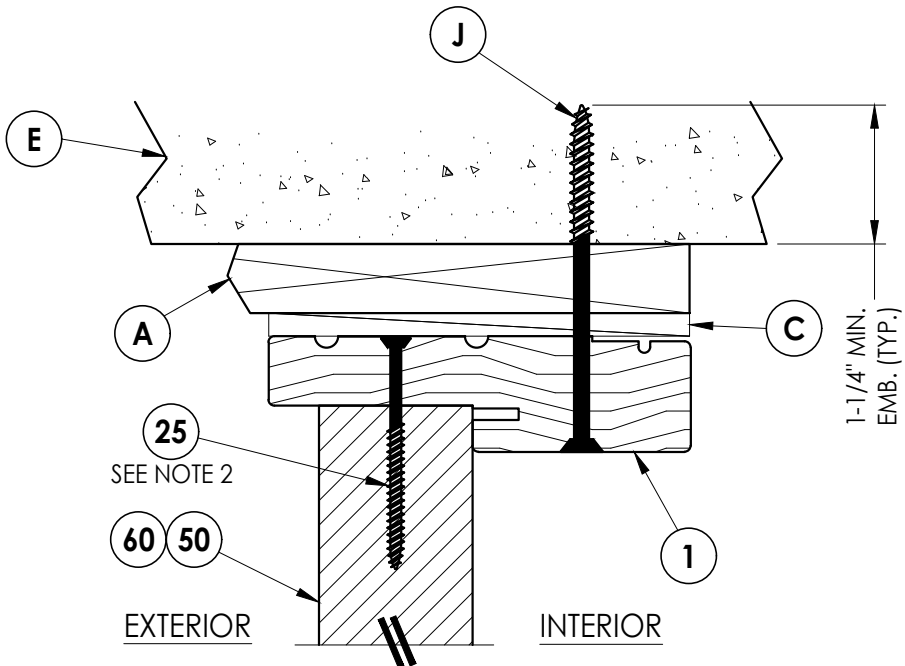
1
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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



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



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

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FBPE Registry No. 9813

PRODUCT: **THERMA-TRU
FIBERGLASS DOOR**

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

NO.	DATE	REVISIONS
3	7/2/26	UPDATE TO 9TH ED. (2026) FBC LFS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/16/20	UPDATE TO 7th ED (2020) FBC PO

DATE: 03/07/20

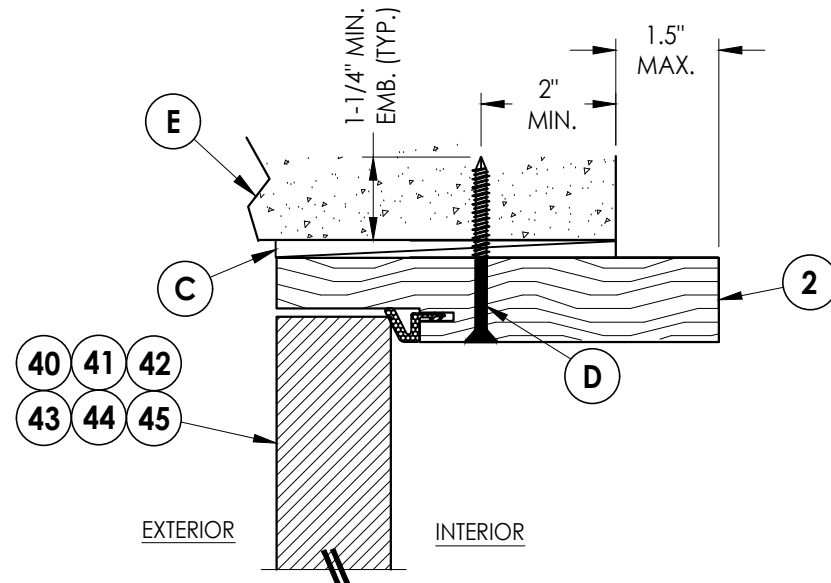
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DWG. BY: TJ

CHK. BY: LFS

DRAWING NO.:
FL-21135.15

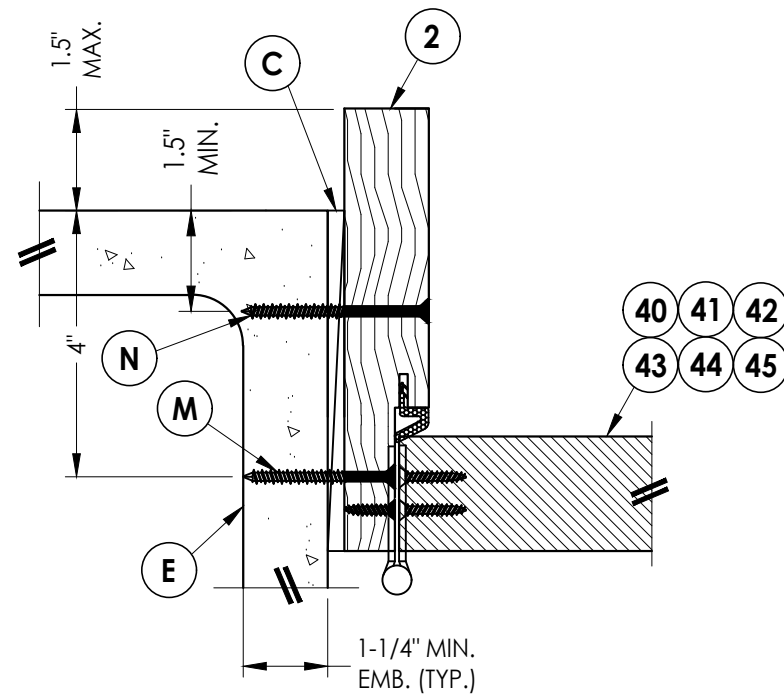
SHEET 7 OF 15



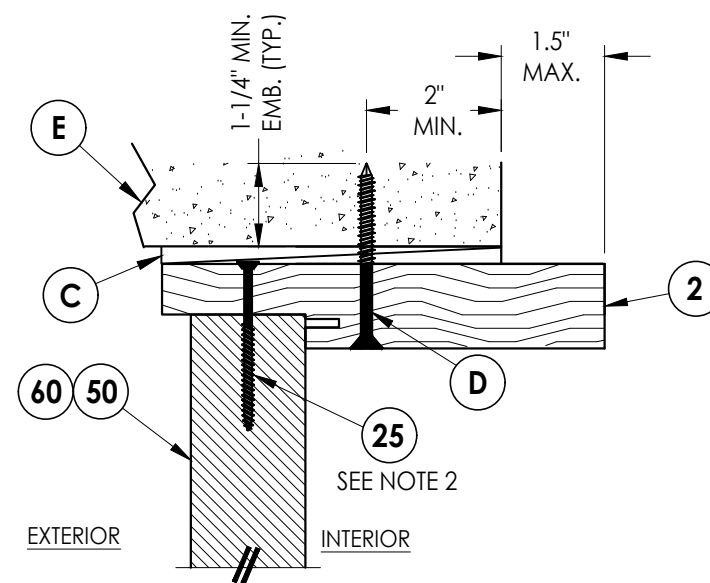
3 **HORIZONTAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

Notes:

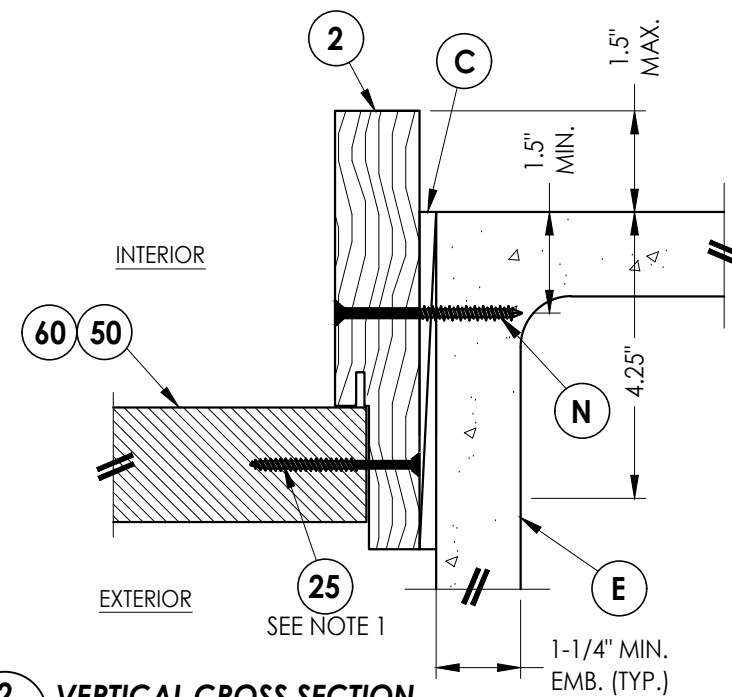
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



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



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

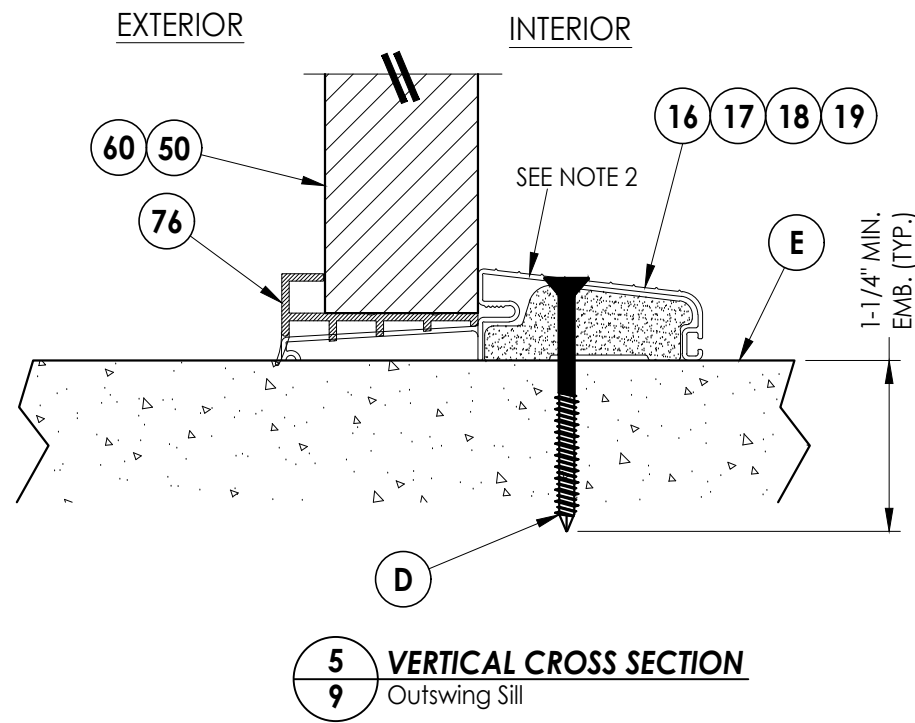
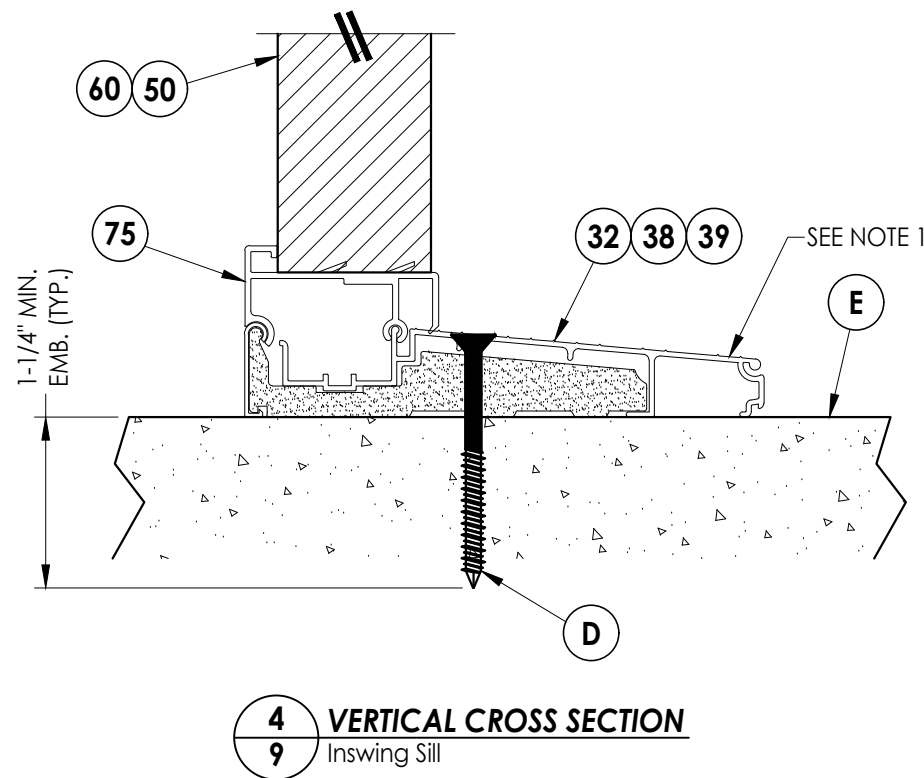
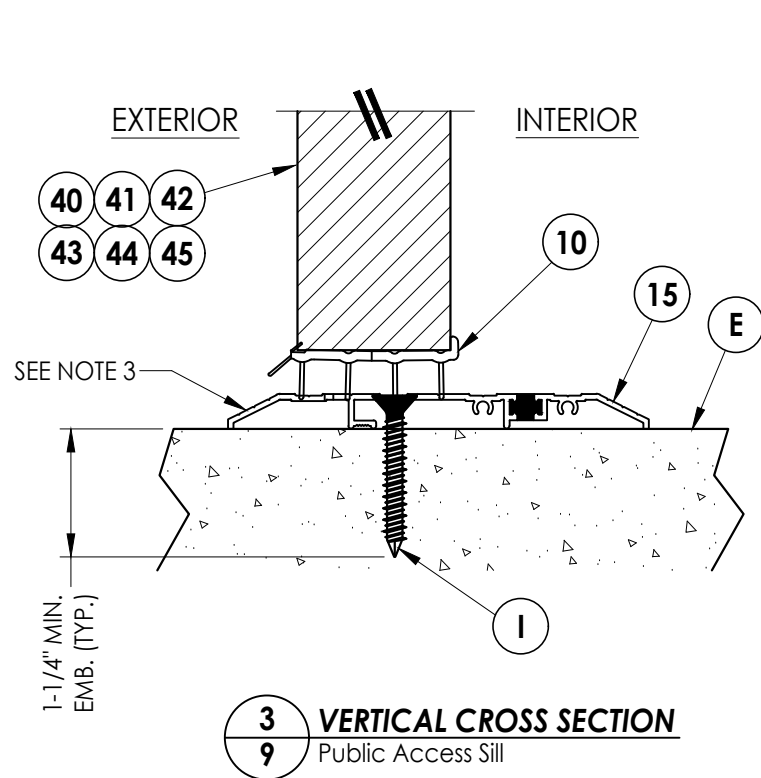
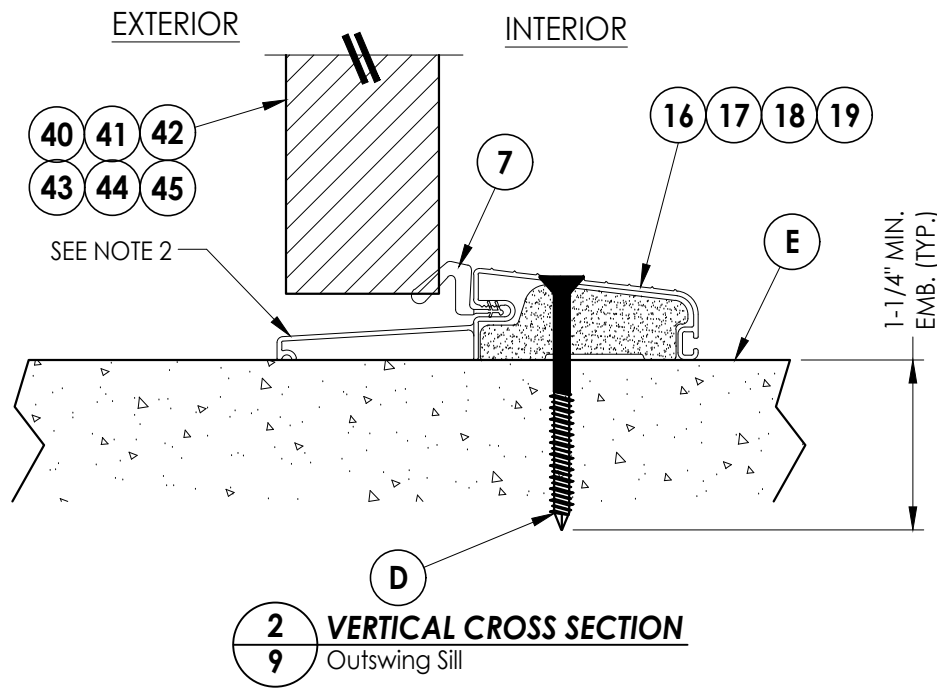
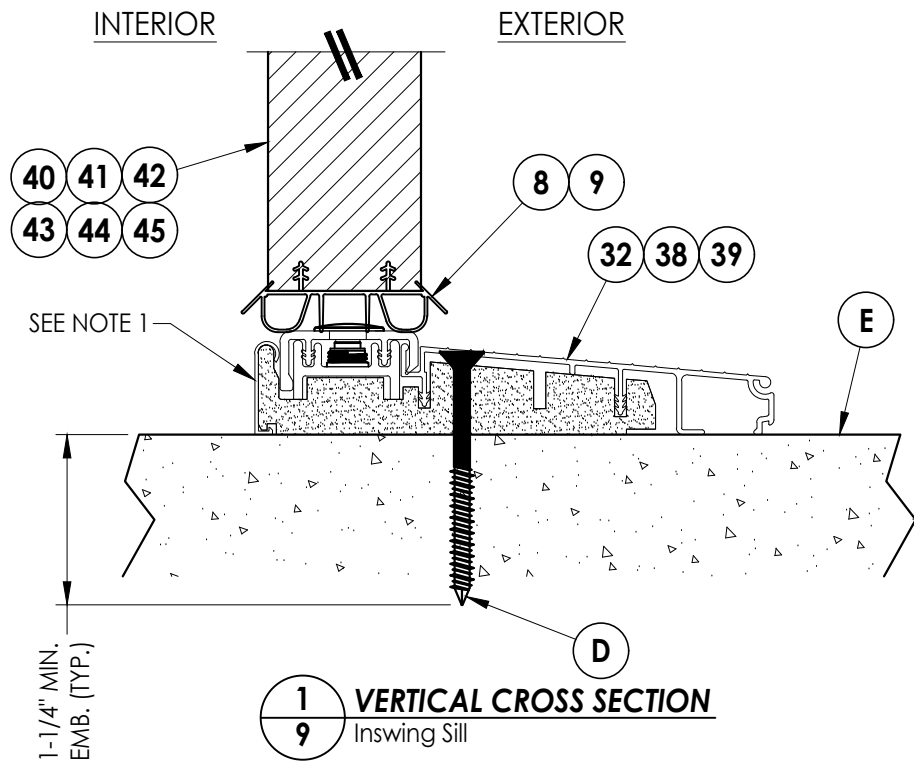


2 **VERTICAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)	
3	7/2/26	UPDATE TO 9TH ED. (2026)	FBC LFS
2	8/21/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	7/16/20	UPDATE TO 7th ED (2020)	FBC PO
NO.	DATE		BY
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DATE: 03/07/20			
SCALE: N.T.S.			
DWG. BY: TJ			
CHK. BY: LFS			
DRAWING NO.: FL-21135.15			
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 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 screws at each end.



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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
3	7/2/26	UPDATE TO 9TH ED. (2026) FBC
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC
1	7/16/20	UPDATE TO 7th ED. (2020) FBC
PO		
BY		

DATE: 03/07/20

SCALE: N.T.S.

DWG. BY: TJ

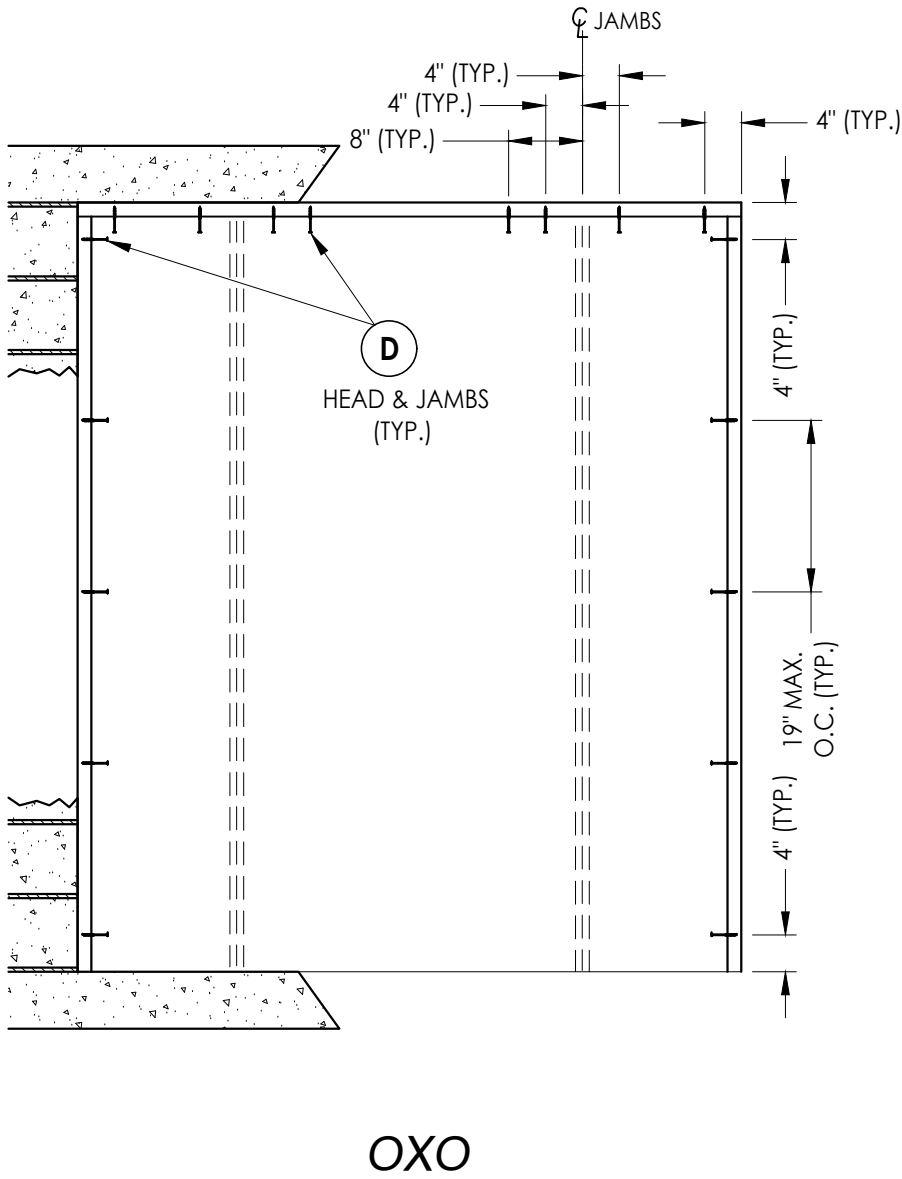
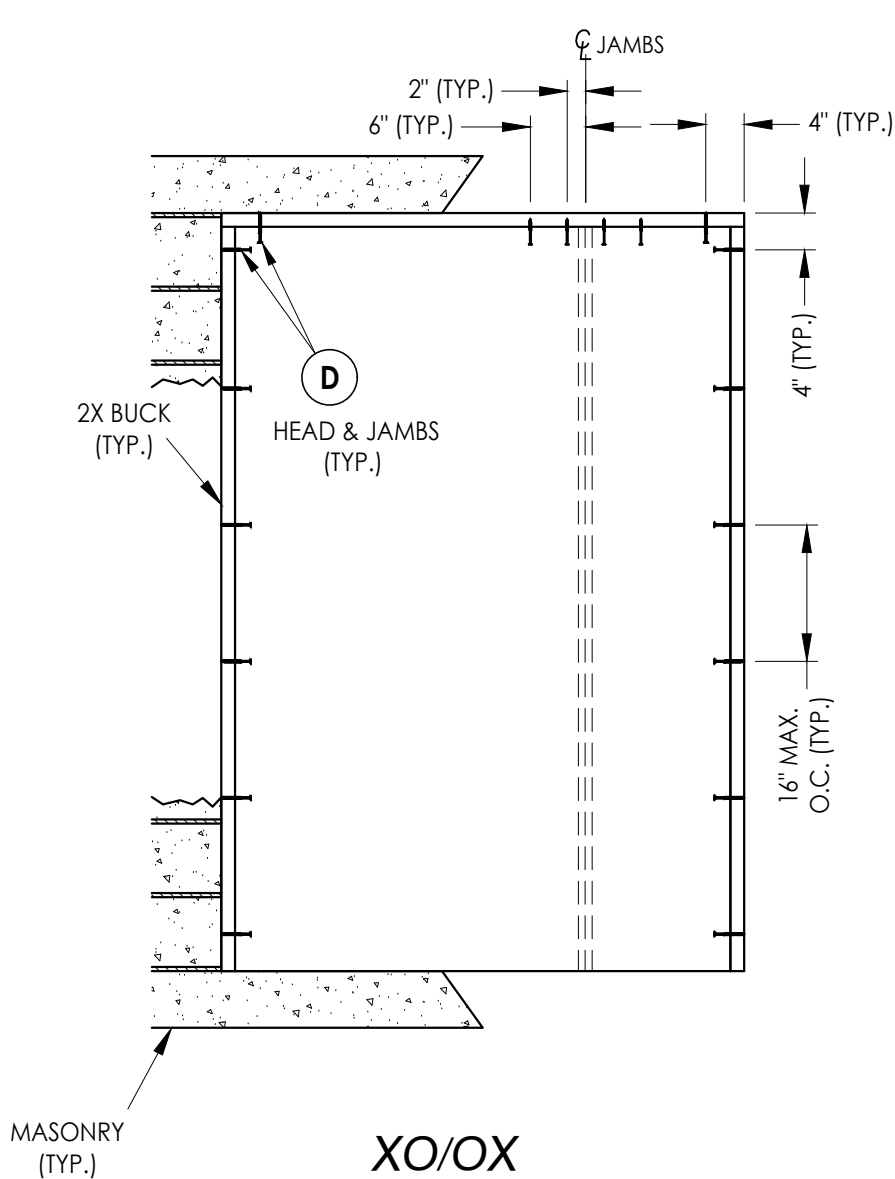
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DRAWING NO.:

FL-21135.15

SHEET 9 OF 15

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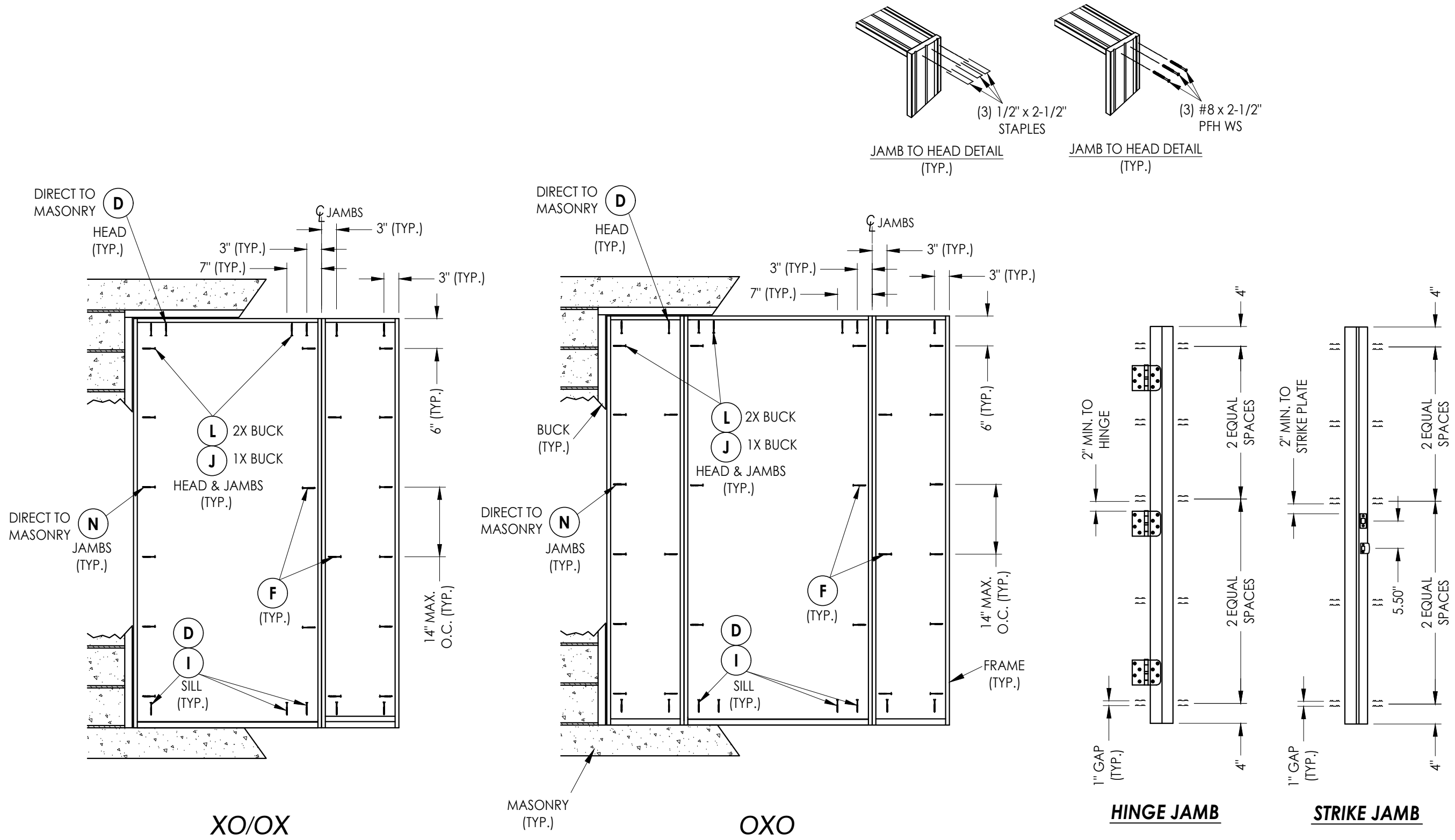


2X BUCK ANCHORING

DATE: 03/07/20	
SCALE: N.T.S.	
DWG. BY: TJ	
CHK. BY: LFS	
DRAWING NO.: FL-21135.15	
SHEET 10 OF 15	

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

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FRAME ANCHORING

HINGE JAMB STRIKE JAMB

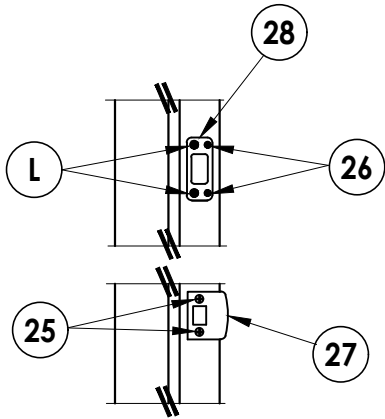
CORRUGATED FASTENER LOCATIONS

3	7/2/26	UPDATE TO	9TH ED.	(2026)	FBC	LFS	
2	8/21/23	UPDATE TO	8TH ED.	(2023)	FBC	LFS	
1	7/16/20	UPDATE TO	7th ED	(2020)	FBC	P0	
NO.	DATE					BY	
							REVISIONS

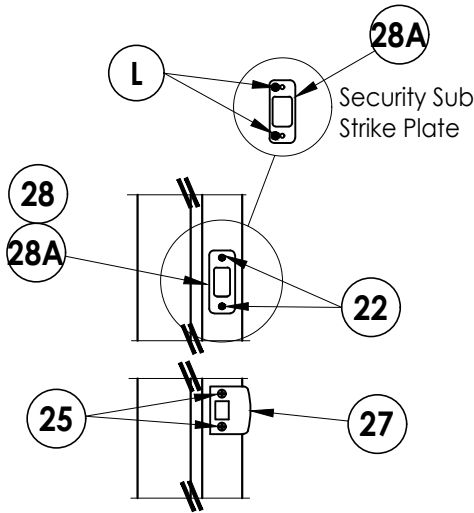
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SCALE:	N.T.S.
DWG. BY:	TJ
CHK. BY:	LFS
DRAWING NO.:	FL-21135.15
SHEET	11 OF 15

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

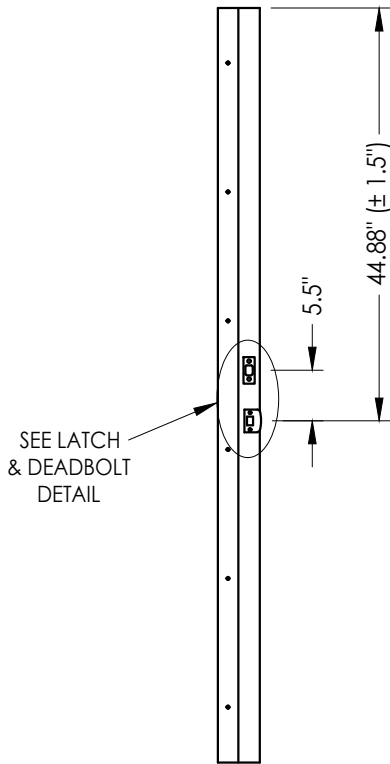
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



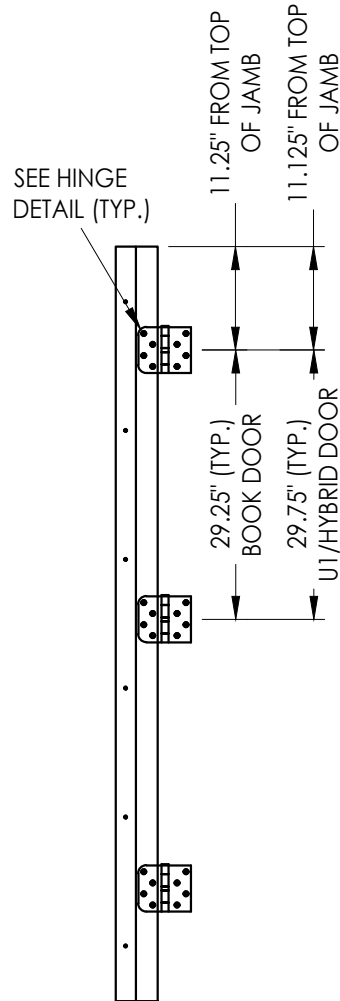
LATCH & DEADBOLT DETAIL
Kwikset



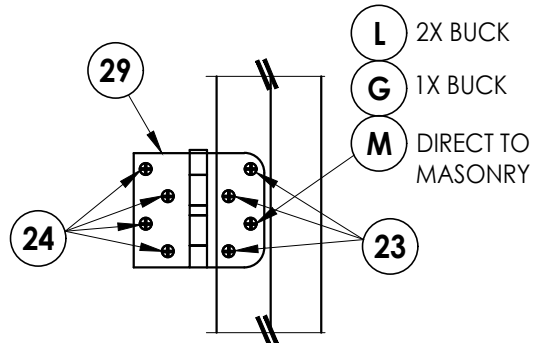
LATCH & DEADBOLT DETAIL
Schlage



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



HINGE DETAIL

LATCH & DEADBOLT STRIKE DETAILS

NO	DATE	REVISIONS
3	7/2/26	UPDATE TO 9TH ED. (2026) FBC LFS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/16/20	UPDATE TO 7th ED (2020) FBC PO

DATE: 03/07/20

SCALE: N.T.S.

DWG. BY: TJ

CHK. BY: LFS

DRAWING NO.:

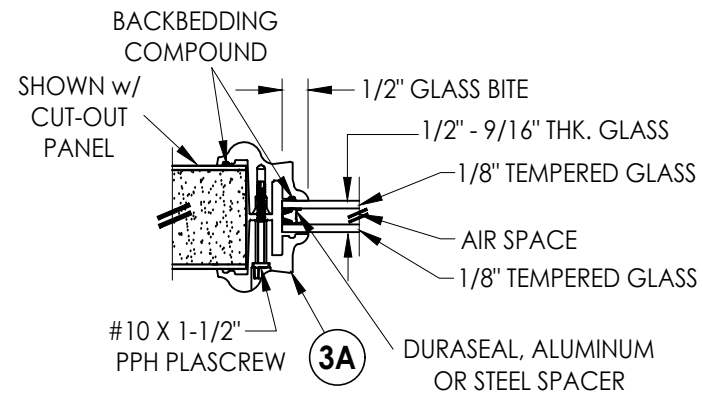
FL-21135.15

SHEET 12 OF 15

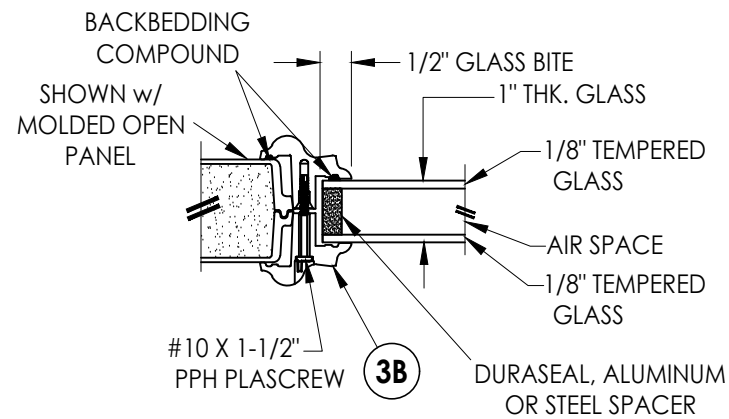
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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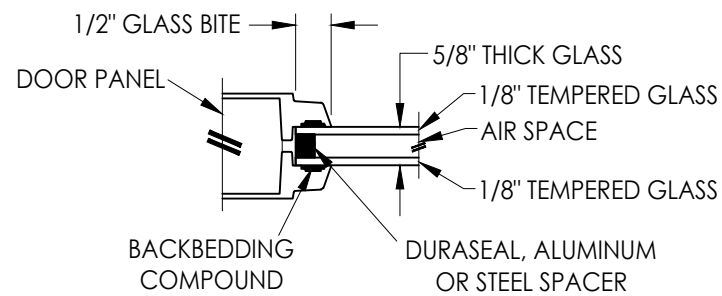
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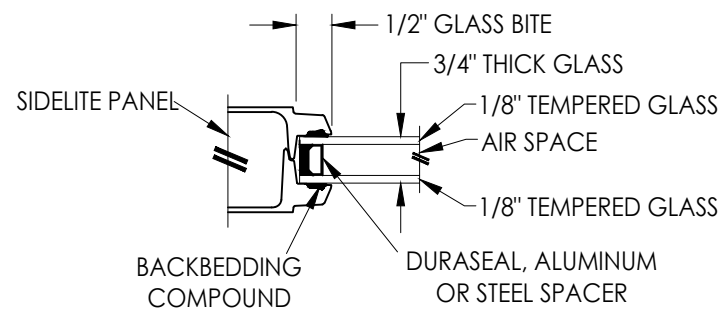
G1 GLAZING DETAIL
BTS Lite Frame
Door Panels & Sidelites



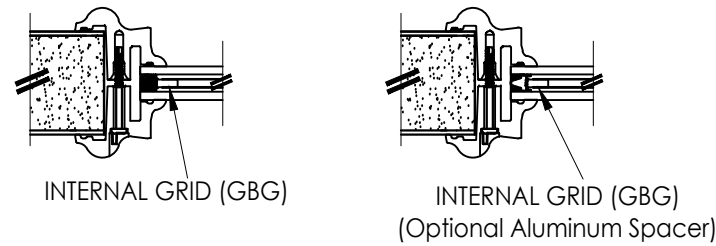
G2 GLAZING DETAIL
BTS Lite Frame
Door Panels & Sidelites



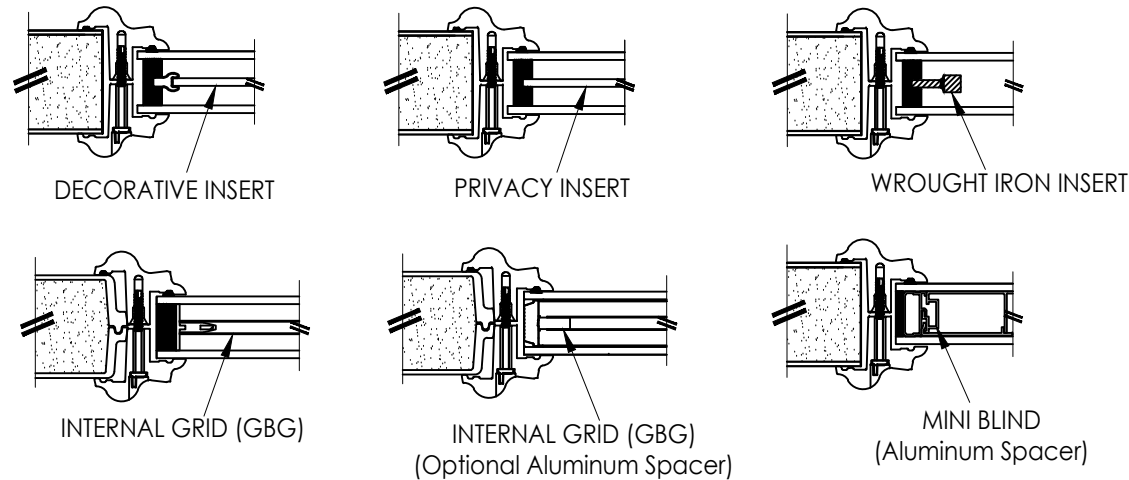
G3 GLAZING DETAIL
Flush Glazing
Door Panels



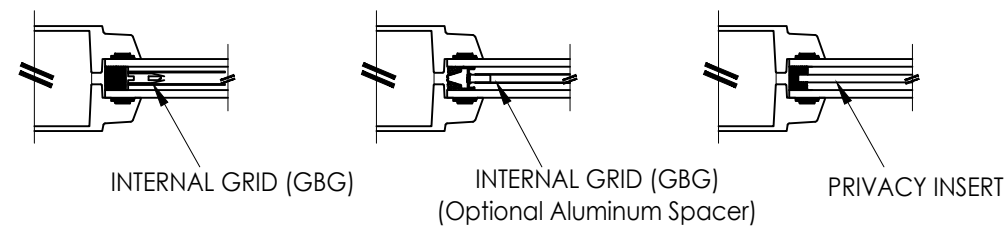
G4 GLAZING DETAIL
Flush Glazing
Sidelites



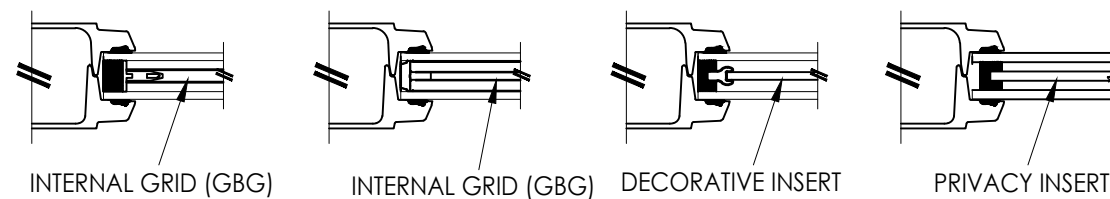
9/16" INSULATED GLASS INSERT OPTIONS



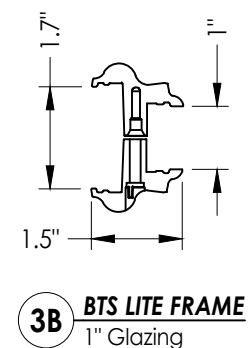
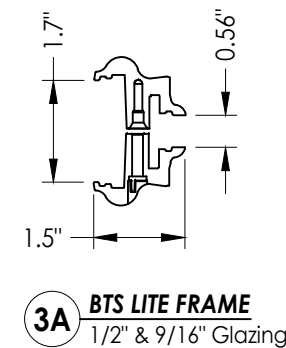
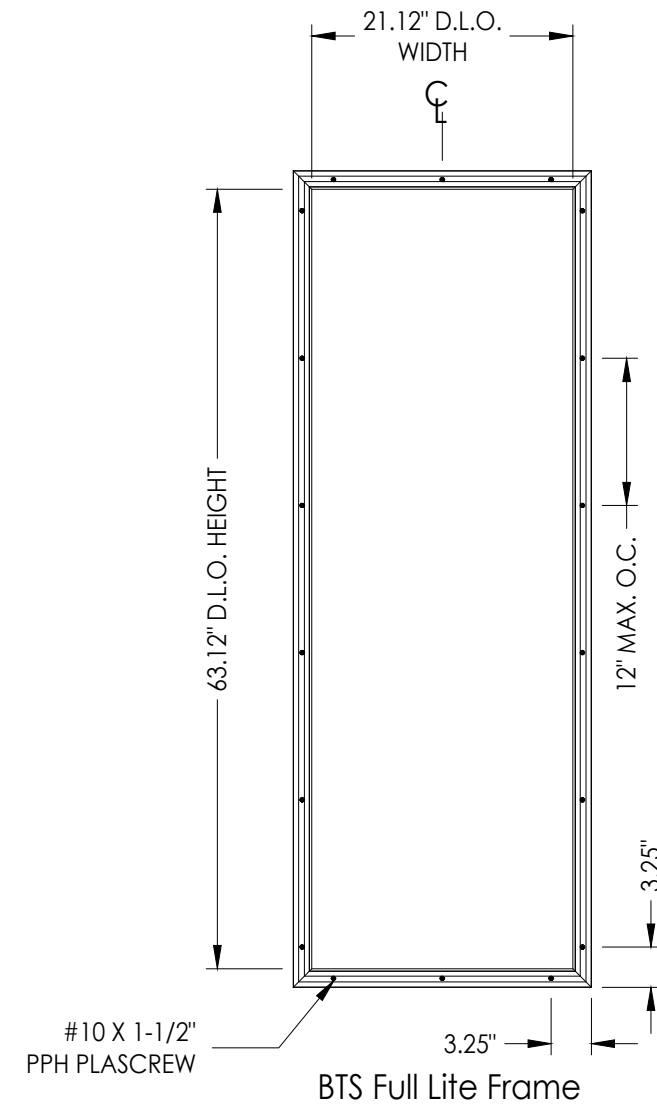
1" INSULATED GLASS INSERT OPTIONS



5/8" INSULATED GLASS INSERT OPTIONS



3/4" INSULATED GLASS INSERT OPTIONS



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

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

NO.	DATE	REVISIONS
3	7/2/26	UPDATE TO 9TH ED. (2026) FBC LFS
2	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/16/20	UPDATE TO 7th ED (2020) FBC PO

DATE: 03/07/20

SCALE: N.T.S.

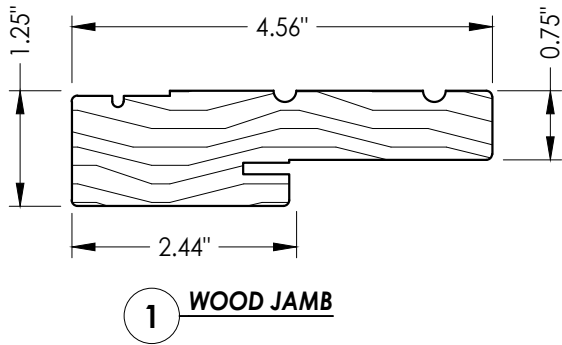
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CHK. BY: LFS

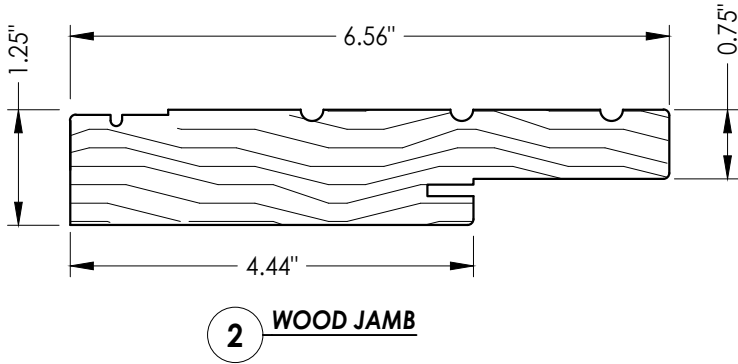
DRAWING NO.:
FL-21135.15

SHEET 13 OF 15

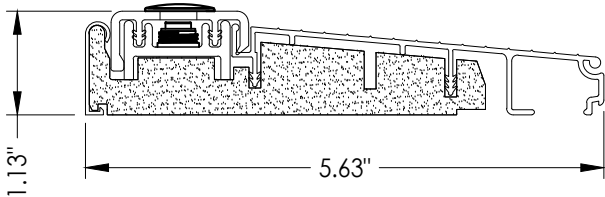
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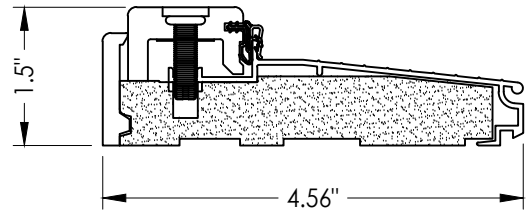
1 WOOD JAMB



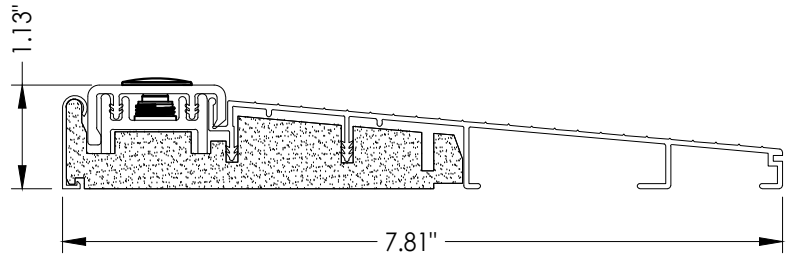
2 WOOD JAMB



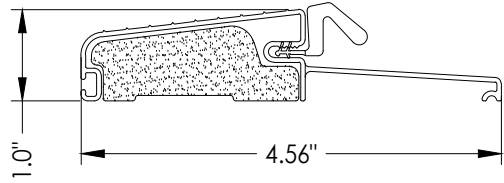
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



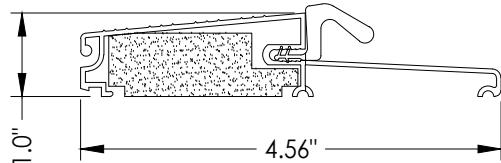
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Inswing Composite Adjustable Sill



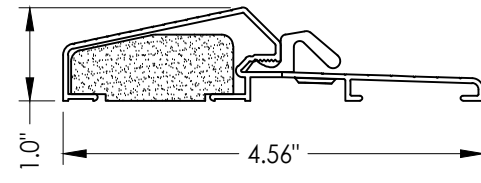
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



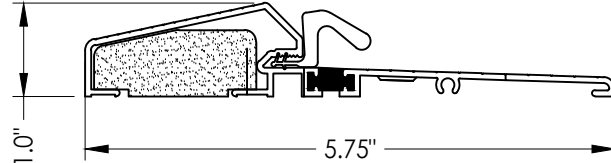
16 OUTSWING THRESHOLD
Composite Sill



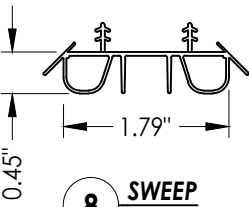
19 OUTSWING THRESHOLD
Composite Sill



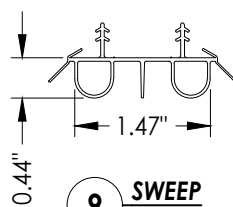
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



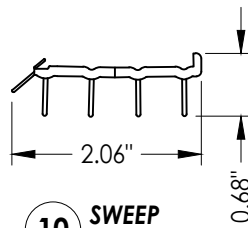
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



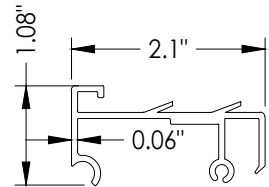
8 SWEEP



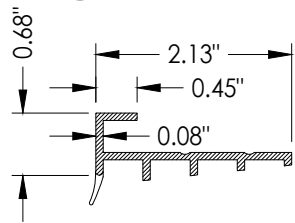
9 SWEEP



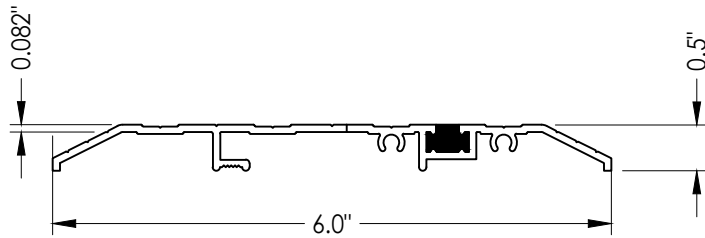
10 SWEEP



75 SIDELITE SPACER



76 SIDELITE SPACER



15 PUBLIC ACCESS THRESHOLD

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	BY	REVISIONS
3	7/2/26	LFS	UPDATE TO 9TH ED. (2026) FBC
2	8/21/23	LFS	UPDATE TO 8TH ED. (2023) FBC
1	7/16/20	PO	UPDATE TO 7th ED (2020) FBC

DATE: 03/07/20

SCALE: N.T.S.

DWG. BY: TJ

CHK. BY: LFS

DRAWING NO.:

FL-21135.15

SHEET 14 OF 15

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2" PFH WOOD SCREW	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT 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
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	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
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
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)	-
43	FLUSH GLAZED DOOR PANEL (BOOK)	-
44	FLUSH GLAZED DOOR PANEL (HYBRID)	-
45	FLUSH GLAZED DOOR PANEL (U1)	-
50	SIDELITE (FULL LITE)	-
60	SIDELITE (HALF LITE)	-
75	SIDELITE SPACER (INSWING)	-
76	SIDELITE SPACER (OUTSWING)	-

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:

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.

[illegible]