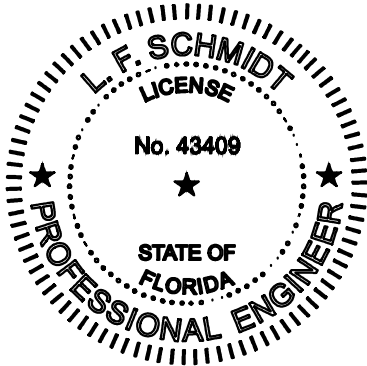




This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

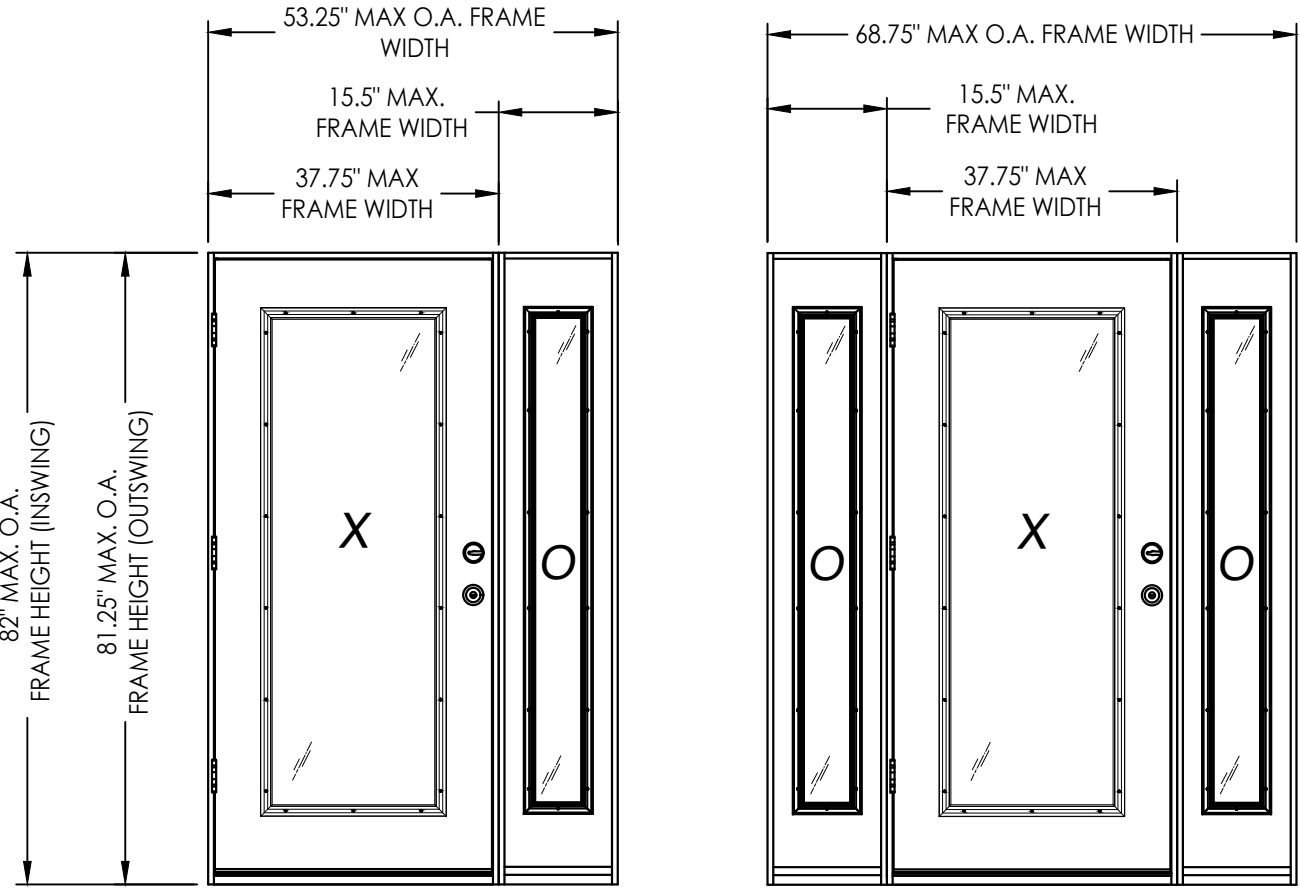
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

WOOD EDGE
GLAZED FIBERGLASS SINGLE DOOR
w/ SIDELITE(S)
INSWING/OUTSWING
"NON-IMPACT"

GENERAL NOTES

- This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 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.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- Benchmark Door and 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	9	Vertical Cross Sections (Thresholds)
2	Door Panel Details	10	Buck Anchoring
3	Door Panel Details	11	Frame Anchoring
4	Sidelite Panel Details	12	Hardware Details
5	Elevations	13	Glazing details
6	Horizontal & Vertical Cross Sections (2X Buck)	14	Components
7	Horizontal & Vertical Cross Sections (1X Buck)	15	Bill of Materials
8	Horizontal & Vertical Cross Sections (Direct to Masonry)		



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+47.0	-47.0	+47.0	-47.0

See Sheet 5 for Hardware Specifications

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

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:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

4	8/21/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	7/16/20	UPDATE TO 7th ED (2020) FBC	PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
1	12/03/17	RECESSED PANEL NOTATION	JK
NO	DATE		BY

REVISIONS

DATE: 07/07/17

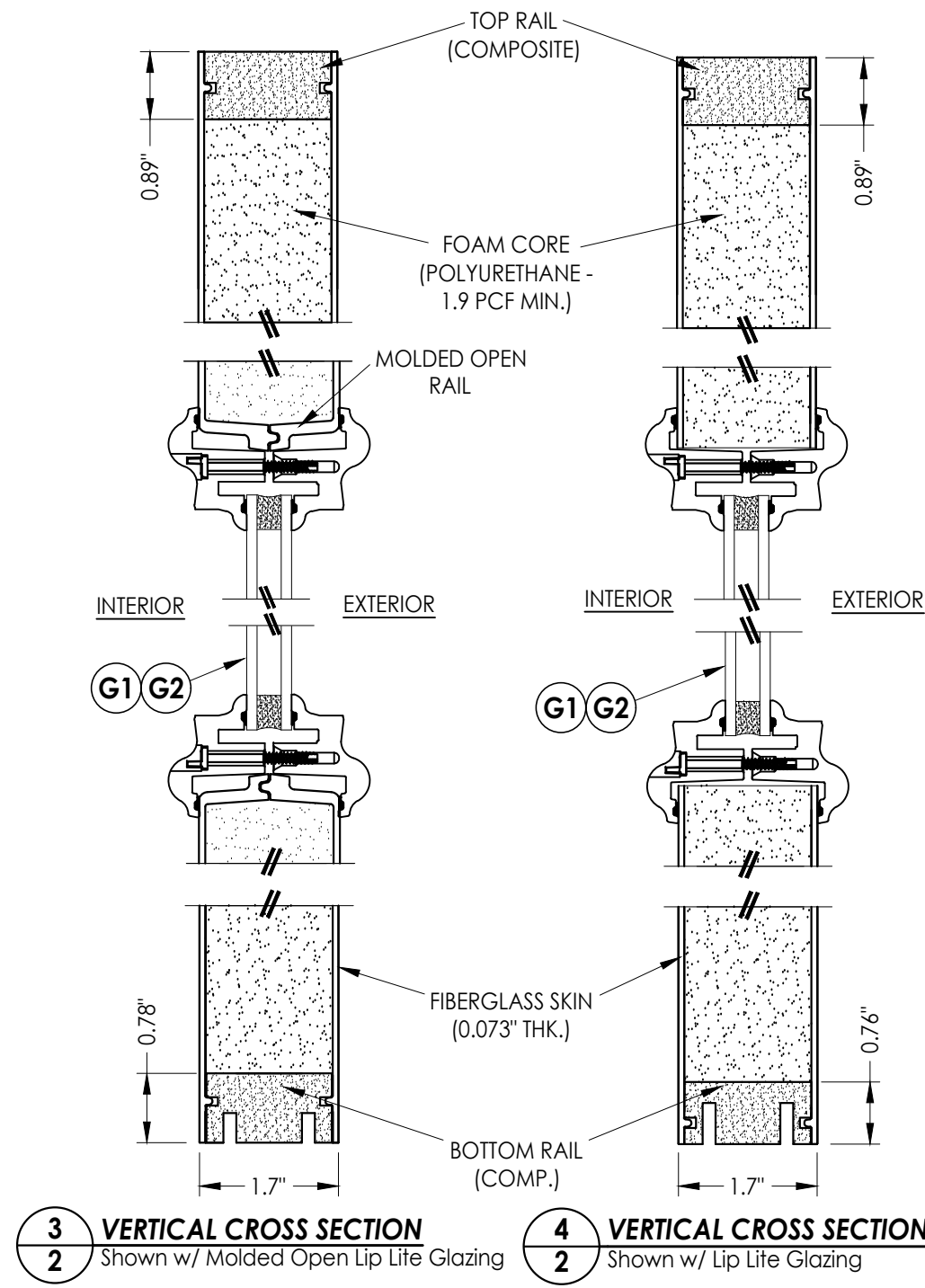
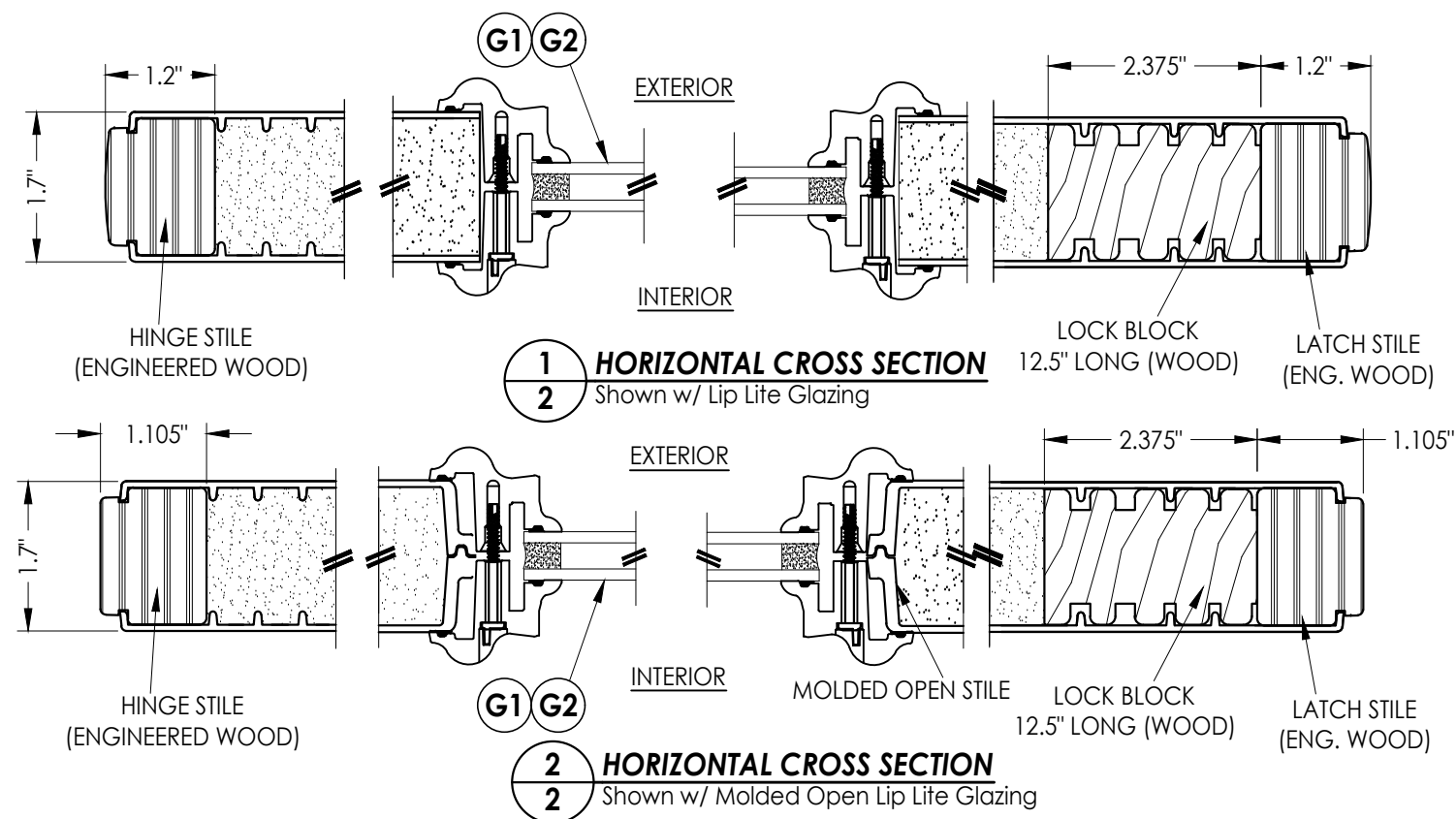
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21135.6

SHEET 1 of 15

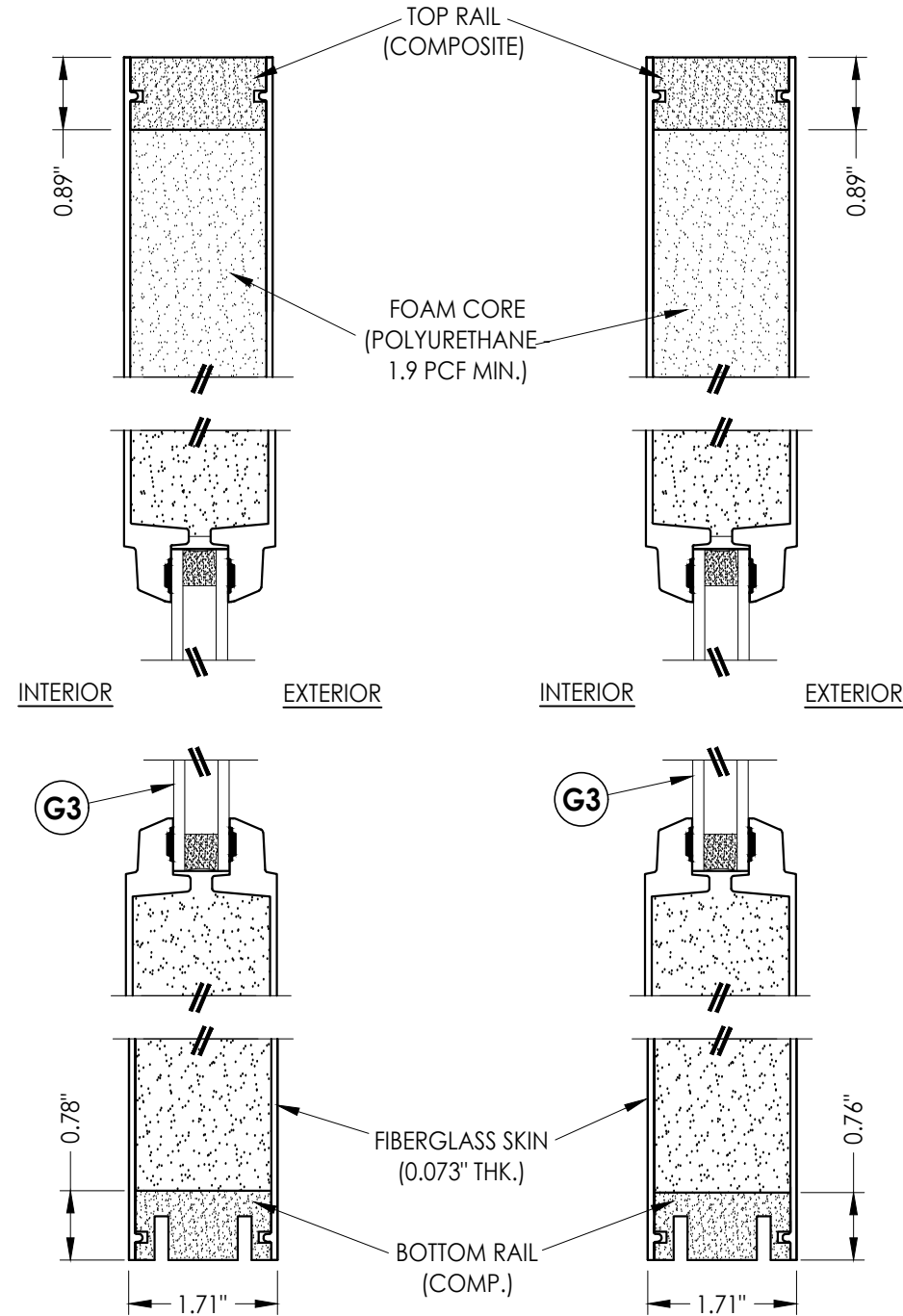
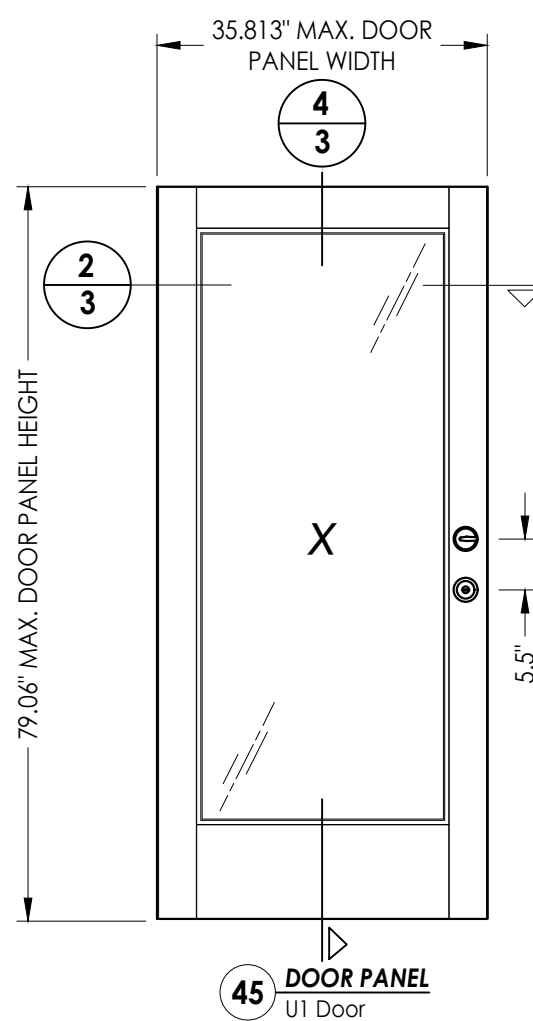
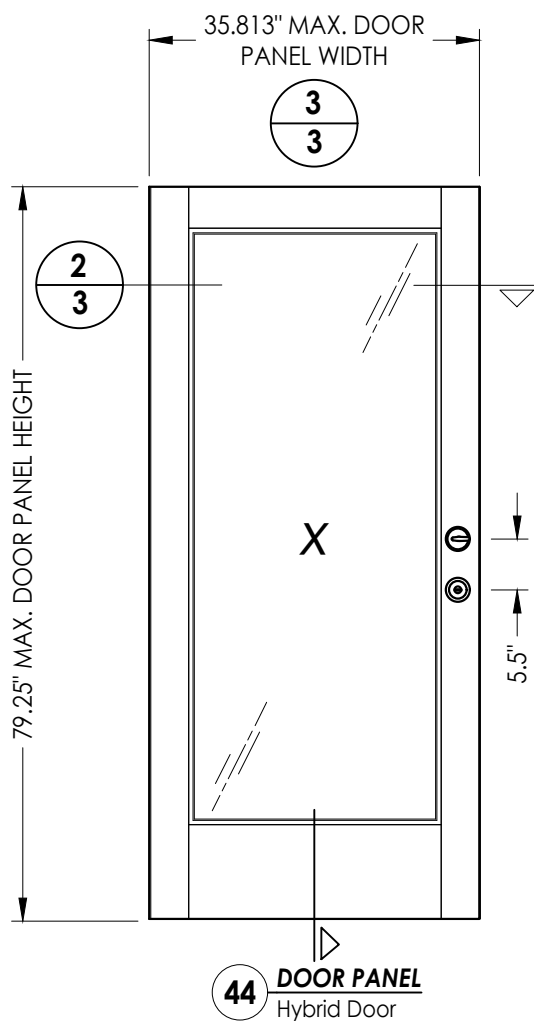
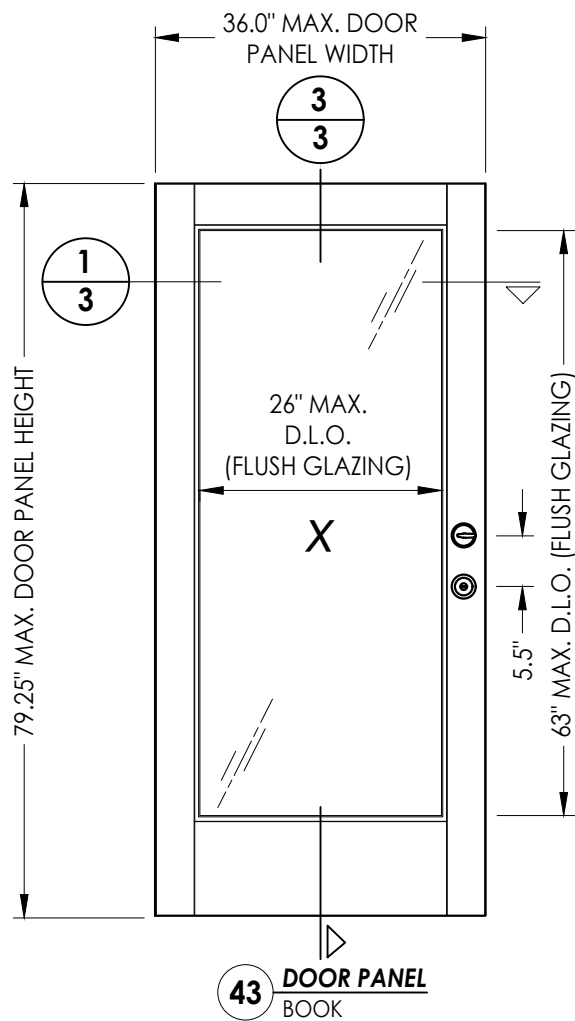
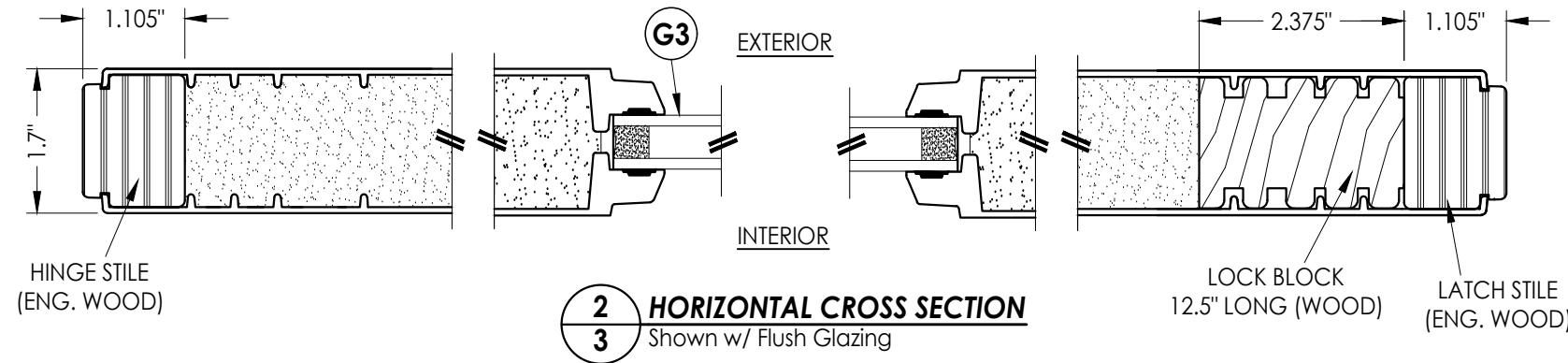
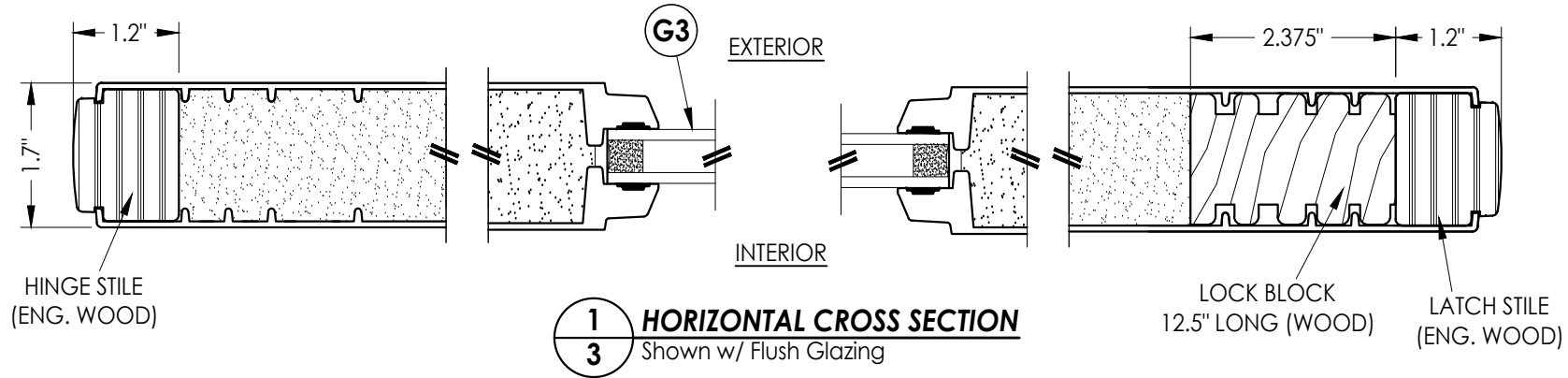
[illegible]

SHEET 2 OF 15

DOOR ASSEMBLY:
DOOR PANEL DETAILS

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

Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.5-8.dwg



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

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:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
4	8/21/23	UPDATE TO 8TH ED. (2023) FBC
3	7/16/20	UPDATE TO 7th ED (2020) FBC
2	10/08/18	REV. DOOR PANEL OPTION NOTE
1	12/03/17	RECESSED PANEL NOTATION

DATE: 07/07/17

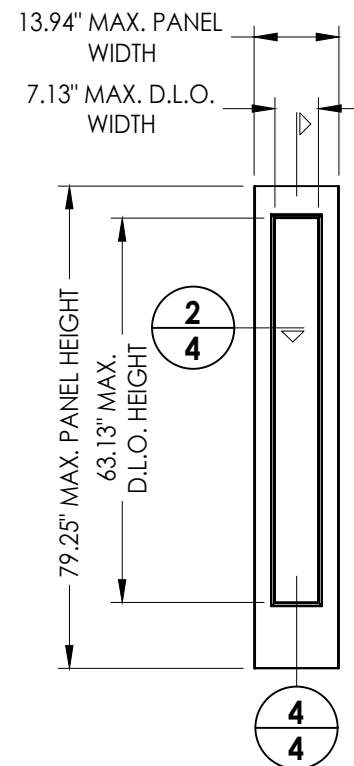
SCALE: N.T.S.

DWG. BY: JK

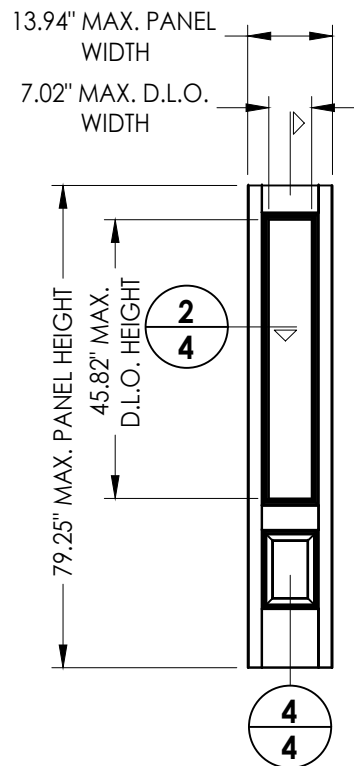
CHK. BY: LFS

DRAWING NO.: FL-21135.6

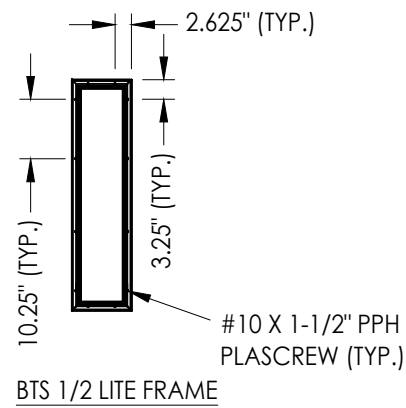
SHEET 3 OF 15



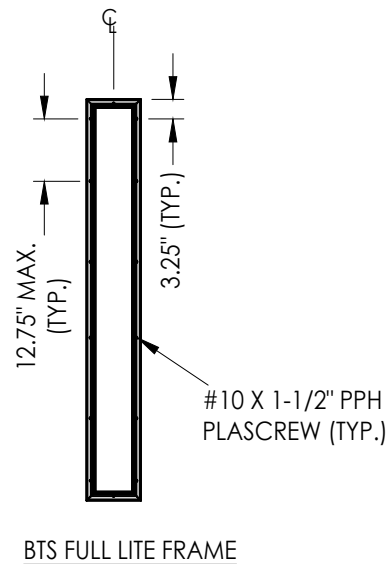
60 **SIDELITE PANEL**
Full Lite
Flush Glazed



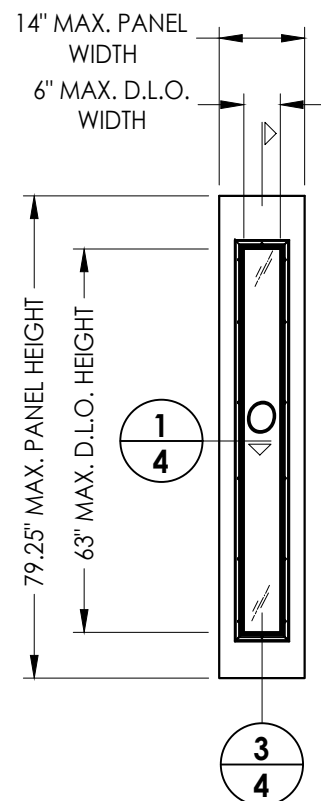
60 **SIDELITE PANEL**
3/4 Lite
Flush Glazed



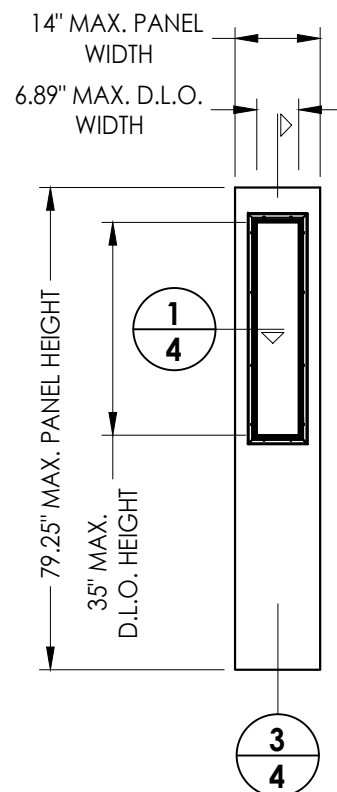
BTS 1/2 LITE FRAME



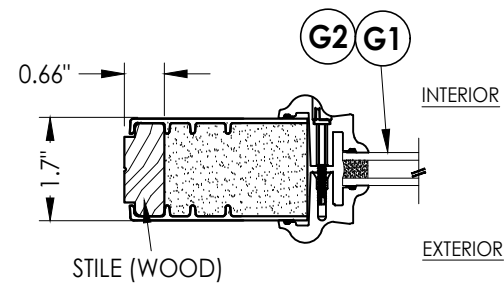
BTS FULL LITE FRAME



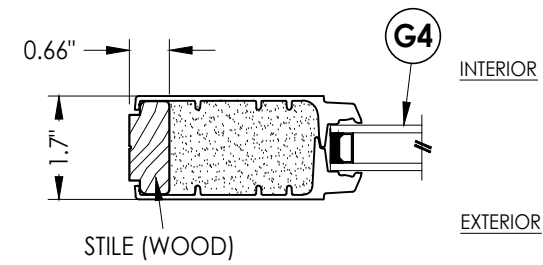
50 **SIDELITE PANEL**
Full Lite
Lip Lite



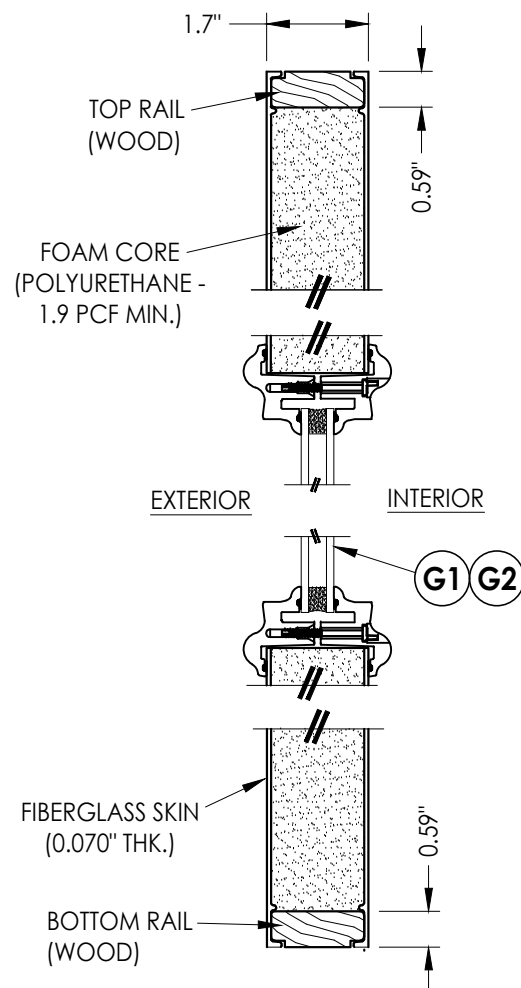
50 **SIDELITE PANEL**
Half Lite
Lip Lite



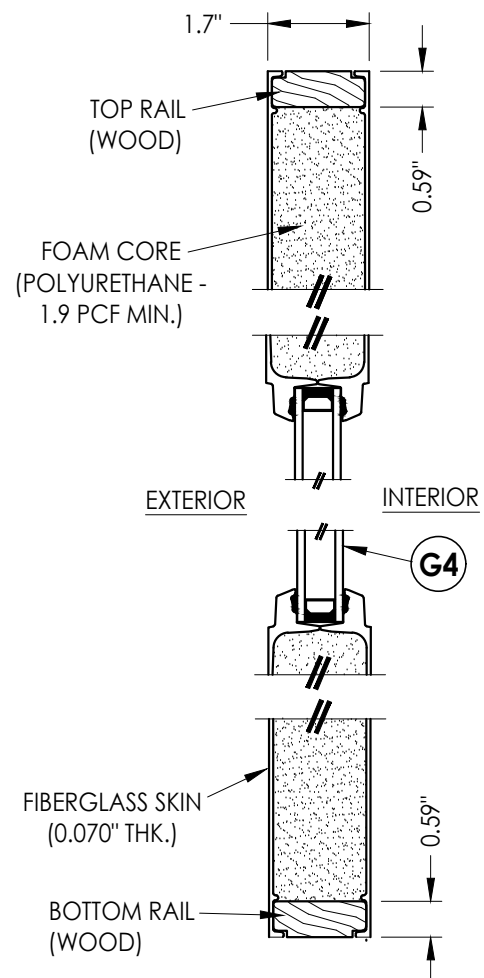
1 4 **HORIZONTAL CROSS SECTION** Lip Life Glazing



2/4 HORIZONTAL CROSS SECTION



3 VERTICAL CROSS SECTION
4 Lip Life Glazing Shown



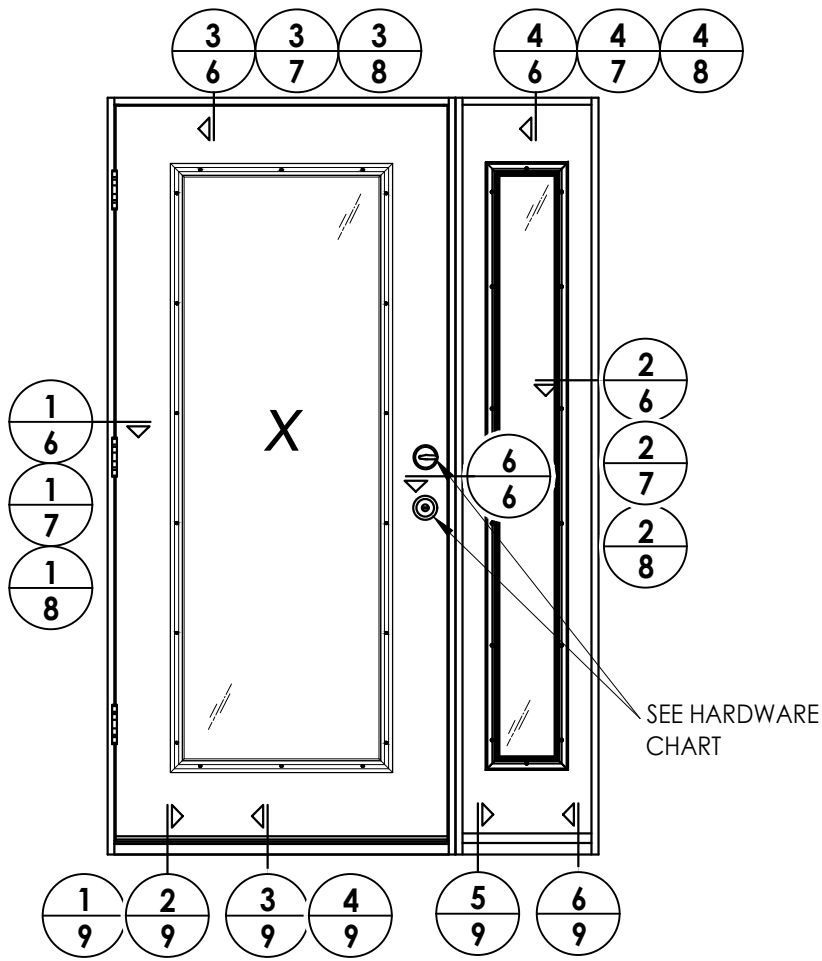
4 VERTICAL CROSS SECTION
4 Flush Glazing Shown

4	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO		
2	10/08/18	REV. DOOR PANEL OPTION	NOTE	MT		
1	12/03/17	RECESSED PANEL	NOTATION	JK		
NO.	DATE					
DATE: 8/10/16 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-21135.6 SHEET 4 OF 15						
REVISIONS						

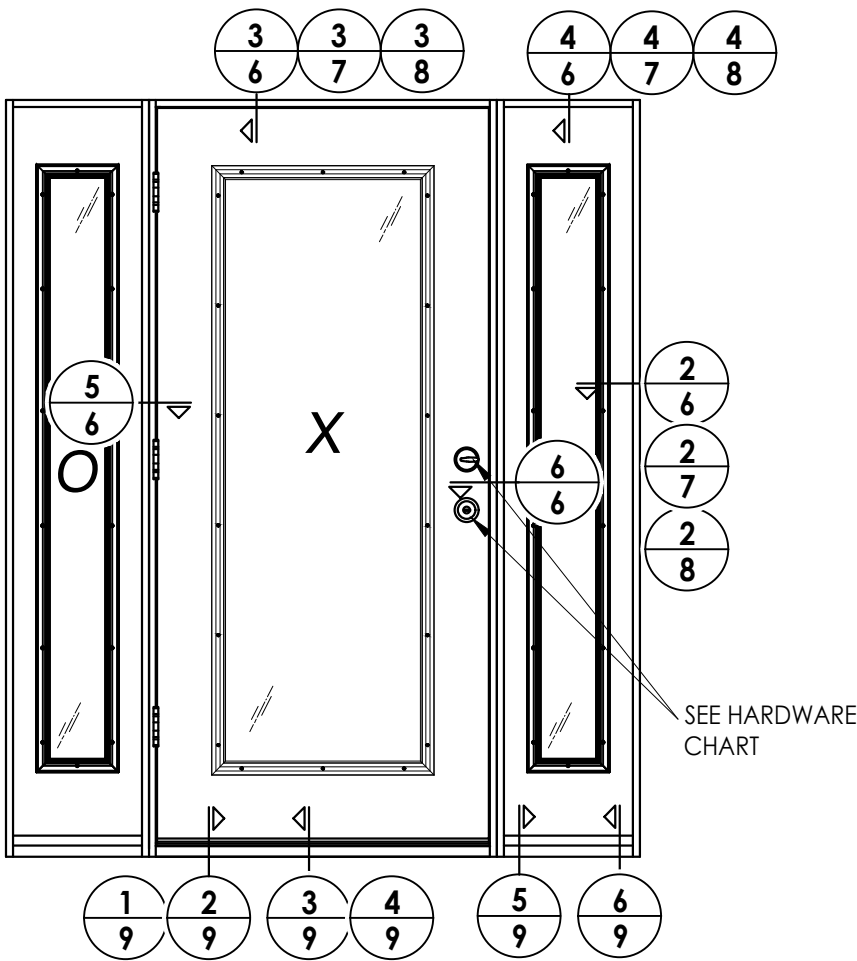
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.5-8.dwg

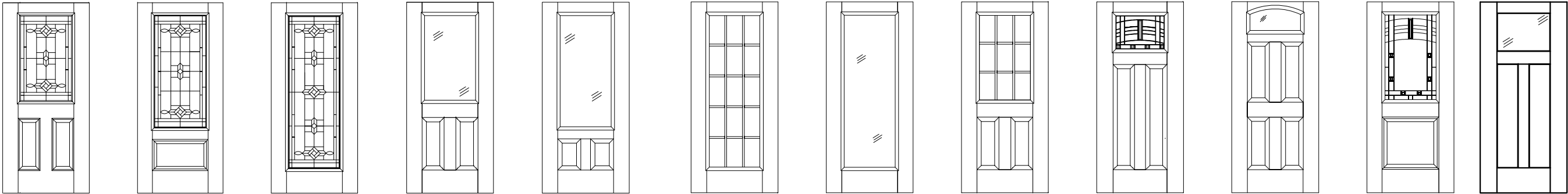


ELEVATION
XO



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.

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

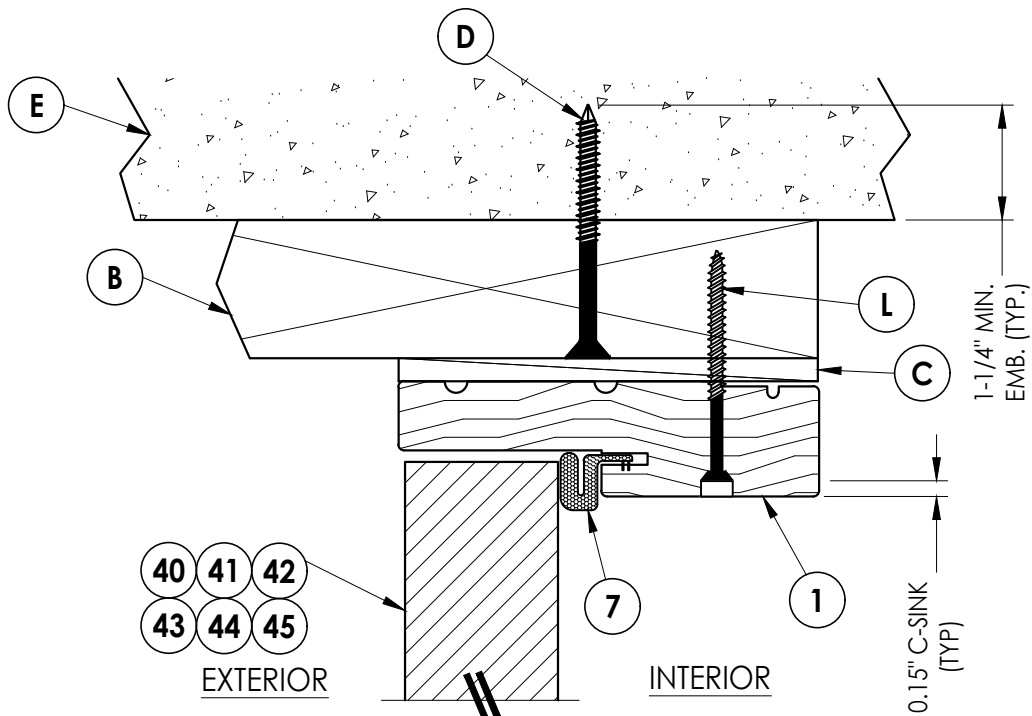
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	THERMA-TRU FIBERGLASS DOOR	
	PART OR ASSEMBLY: ELEVATIONS	

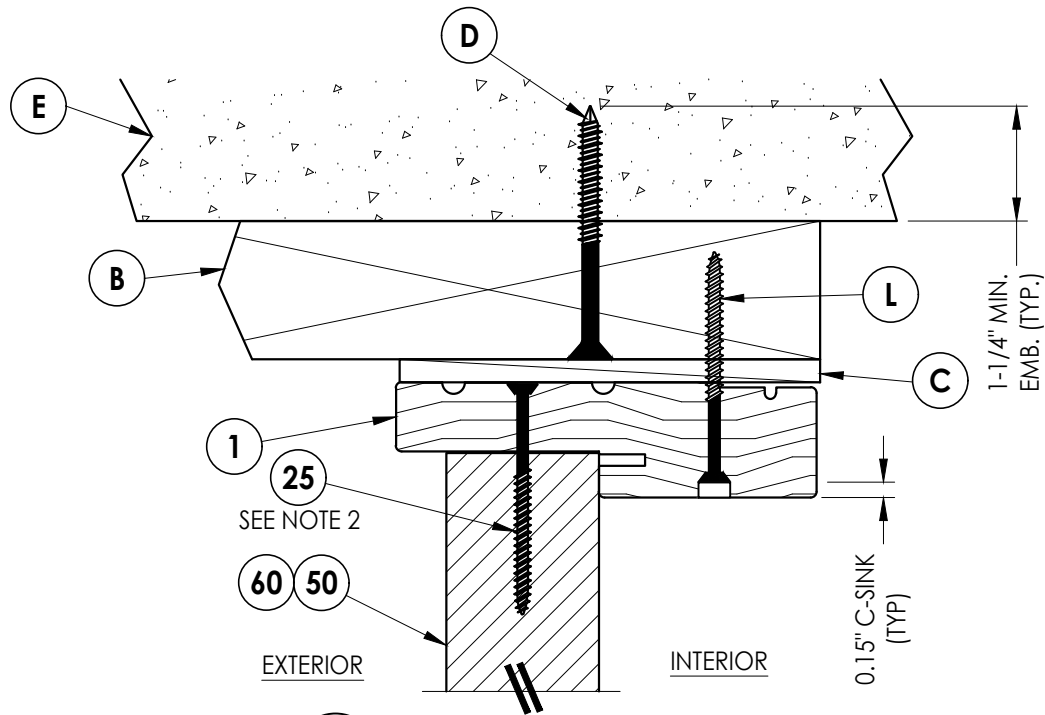
NO.	DATE	REVISIONS			
		DATE	BY	MT	PO
4	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO	
2	10/08/18	REV. DOOR PANEL OPTION NOTE		MT	
1	12/03/17	RECESSED PANEL NOTATION		JK	

DATE:	07/07/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21135.6
SHEET	5 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).
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 VERTICAL CROSS SECTION
6 Shown w/ 2X Buck
 Outswing shown (Inswing similar)



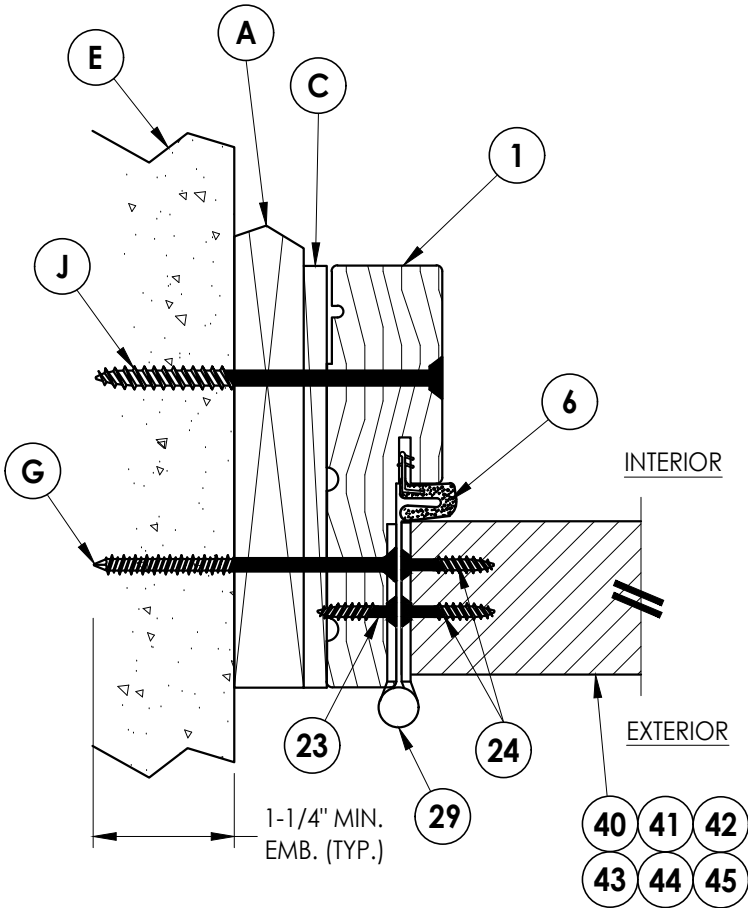
4 VERTICAL CROSS SECTION
6 Shown w/ 2X Buck
Outswing shown (Inswing similar)

[illegible]

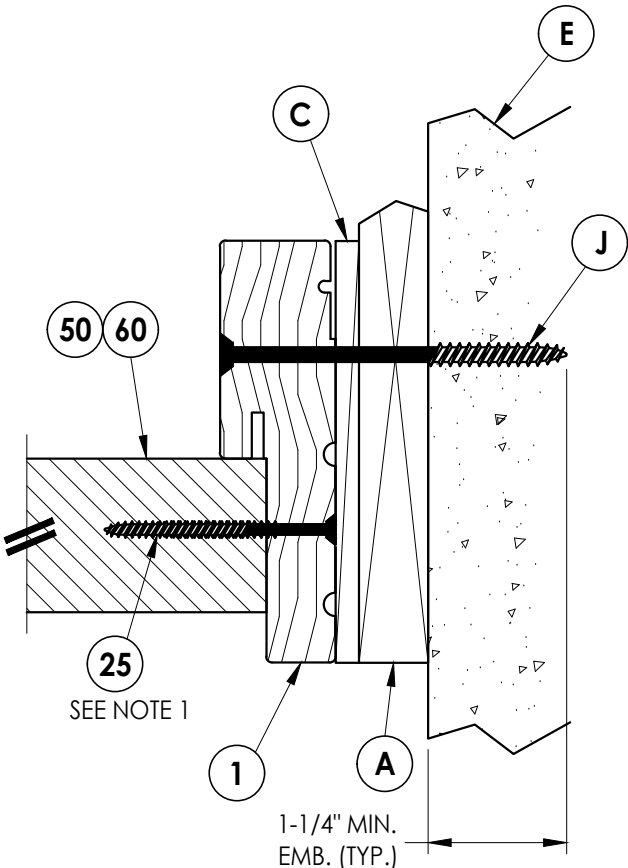
Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.5-8.dwg

Notes:

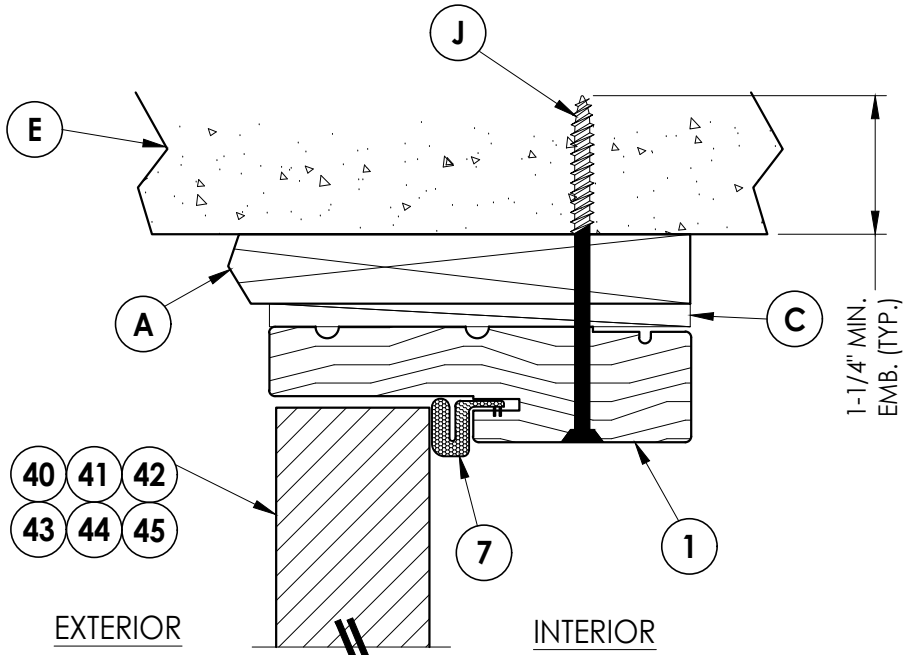
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



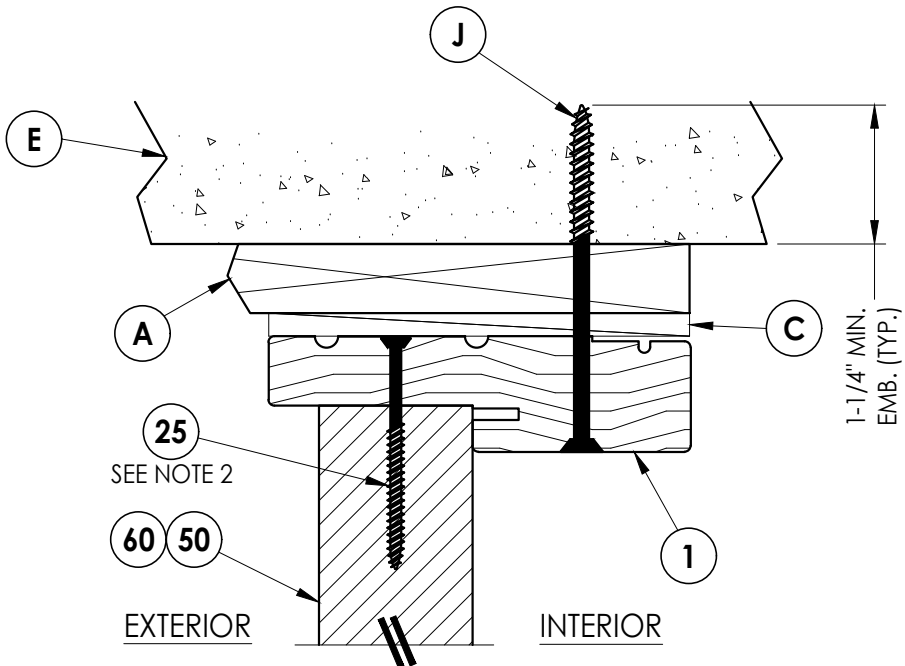
1
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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)

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 (1X BUCK)**

NO.	DATE	REVISIONS
4	8/21/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/16/20	UPDATE TO 7th ED. (2020) FBC PO
2	10/08/18	REV. DOOR PANEL OPTION NOTE MT
1	12/03/17	RECESSED PANEL NOTATION JK

DATE: 07/07/17

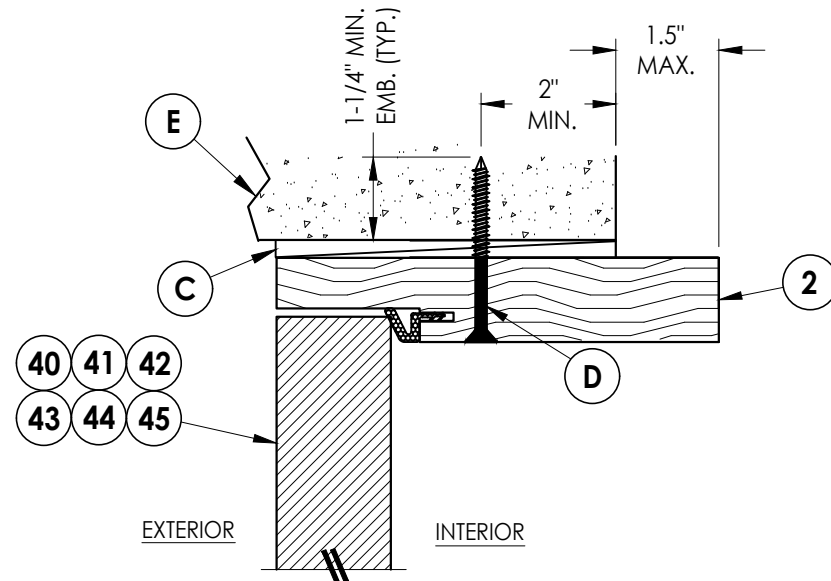
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21135.6

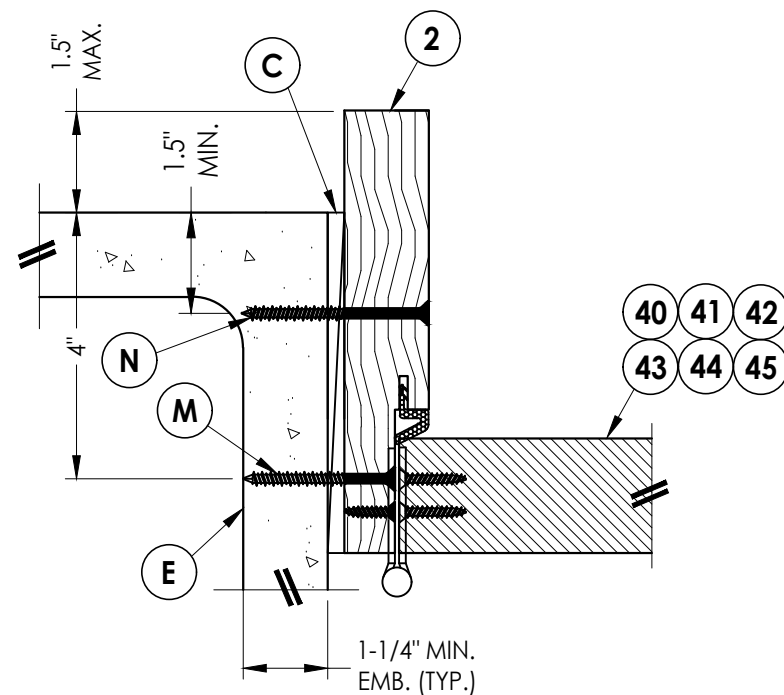
SHEET 7 OF 15



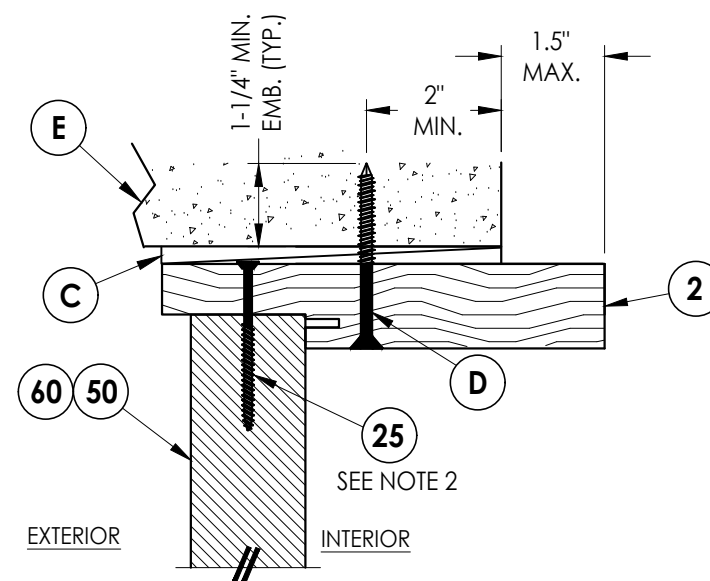
3 **HORIZONTAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

Notes:

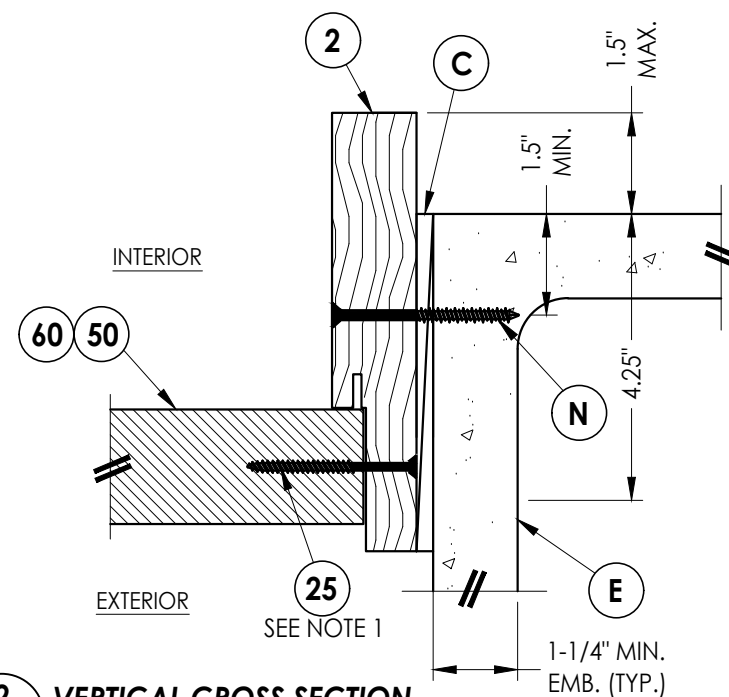
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



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



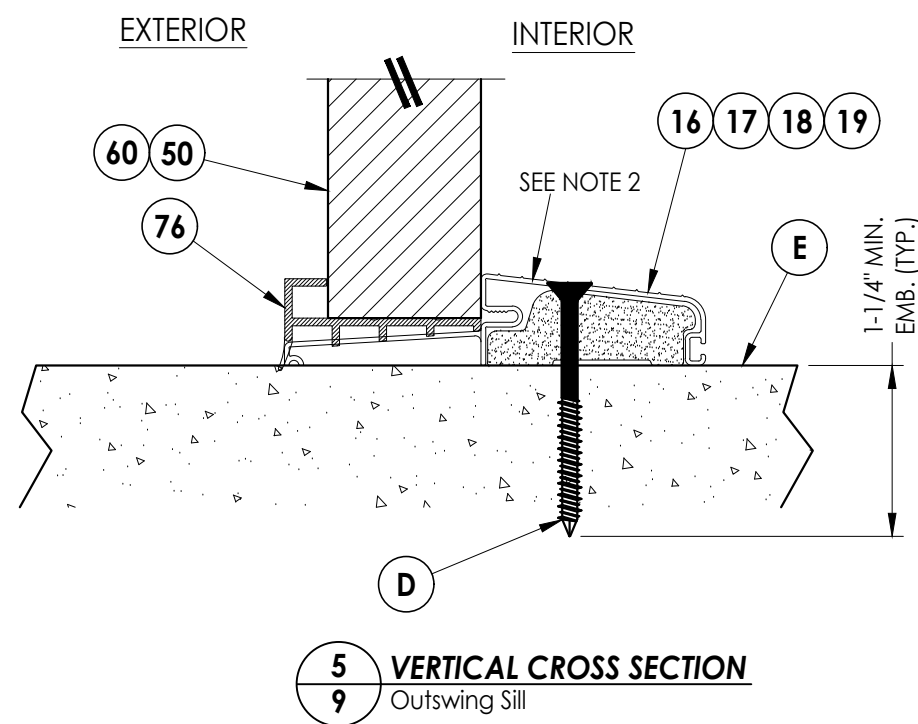
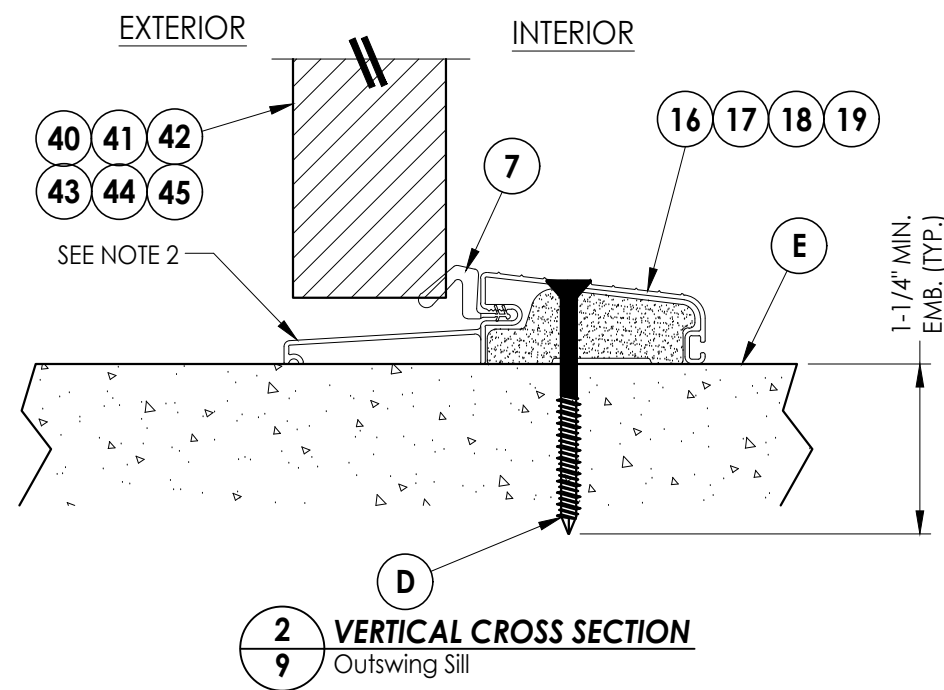
4 **VERTICAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



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

DATE: 07/07/17 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-21135.6 SHEET 8 OF 15							PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
4	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS								
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO								
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT	JK								
1	12/03/17	RECESSED PANEL NOTATION		BY								
NO. DATE			REVISIONS									
<												

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.



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

DECA, BUILDING CONSULTANTS, INC.

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

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

[illegible]

DATE: 07/07/17

SCALE: *N.T.S.*

DWG. BY: JK

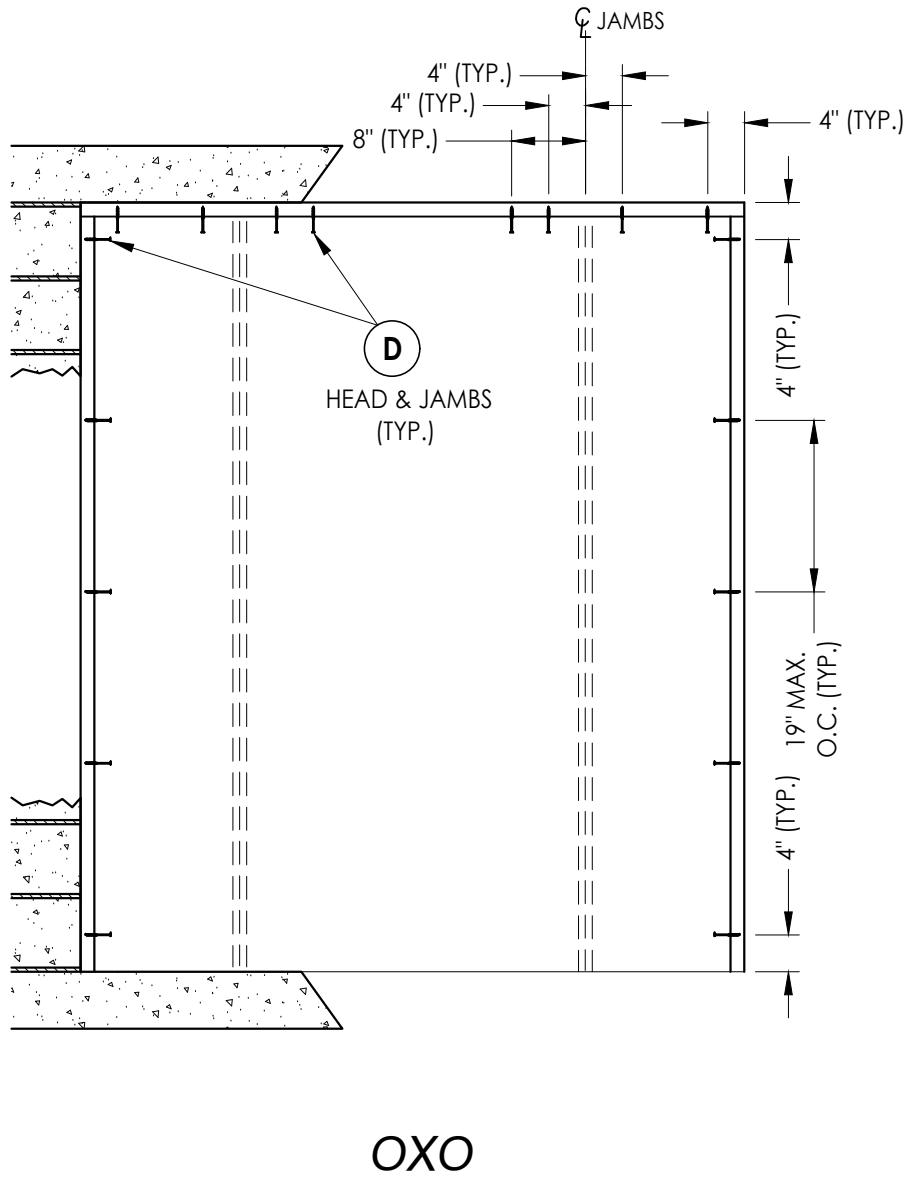
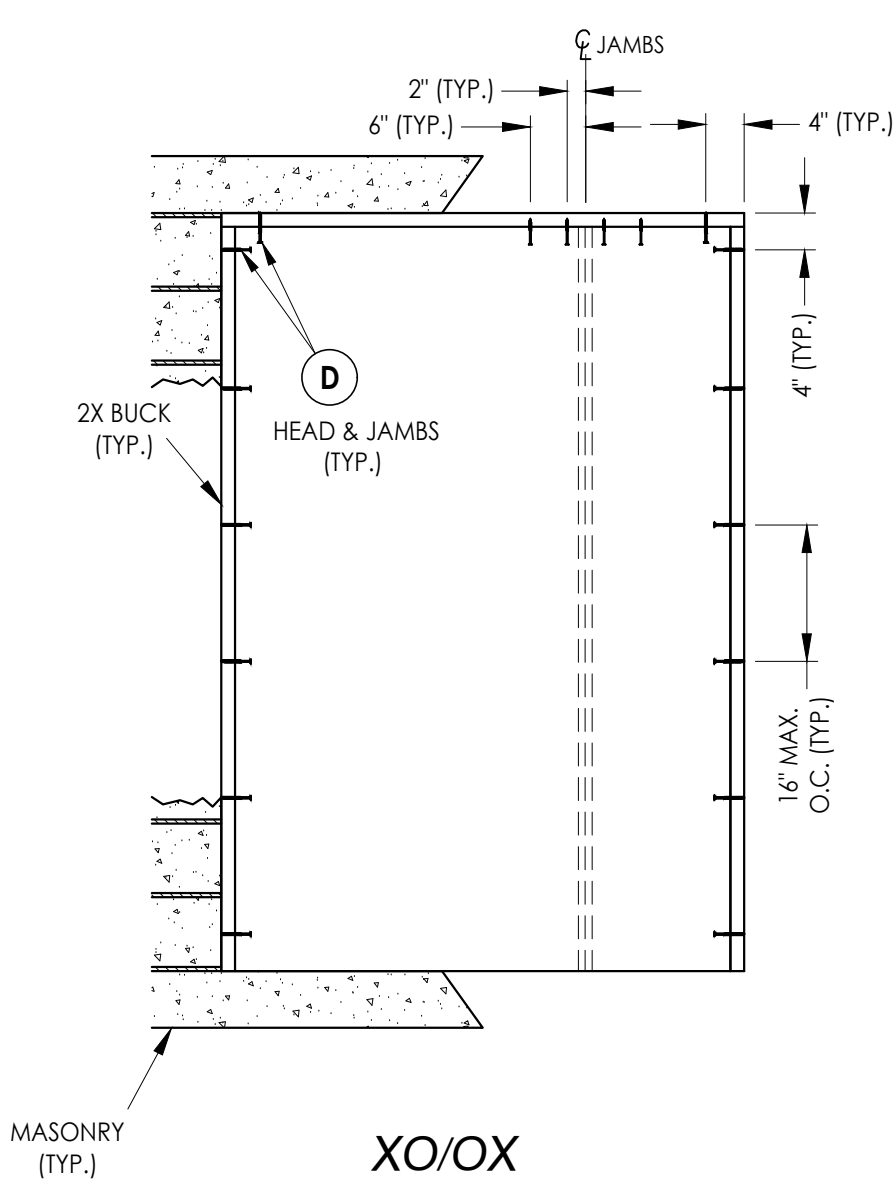
CHK. BY: *LFS*

DRAWING NO.:

FL-21135.6

SHEET 9 OF 15

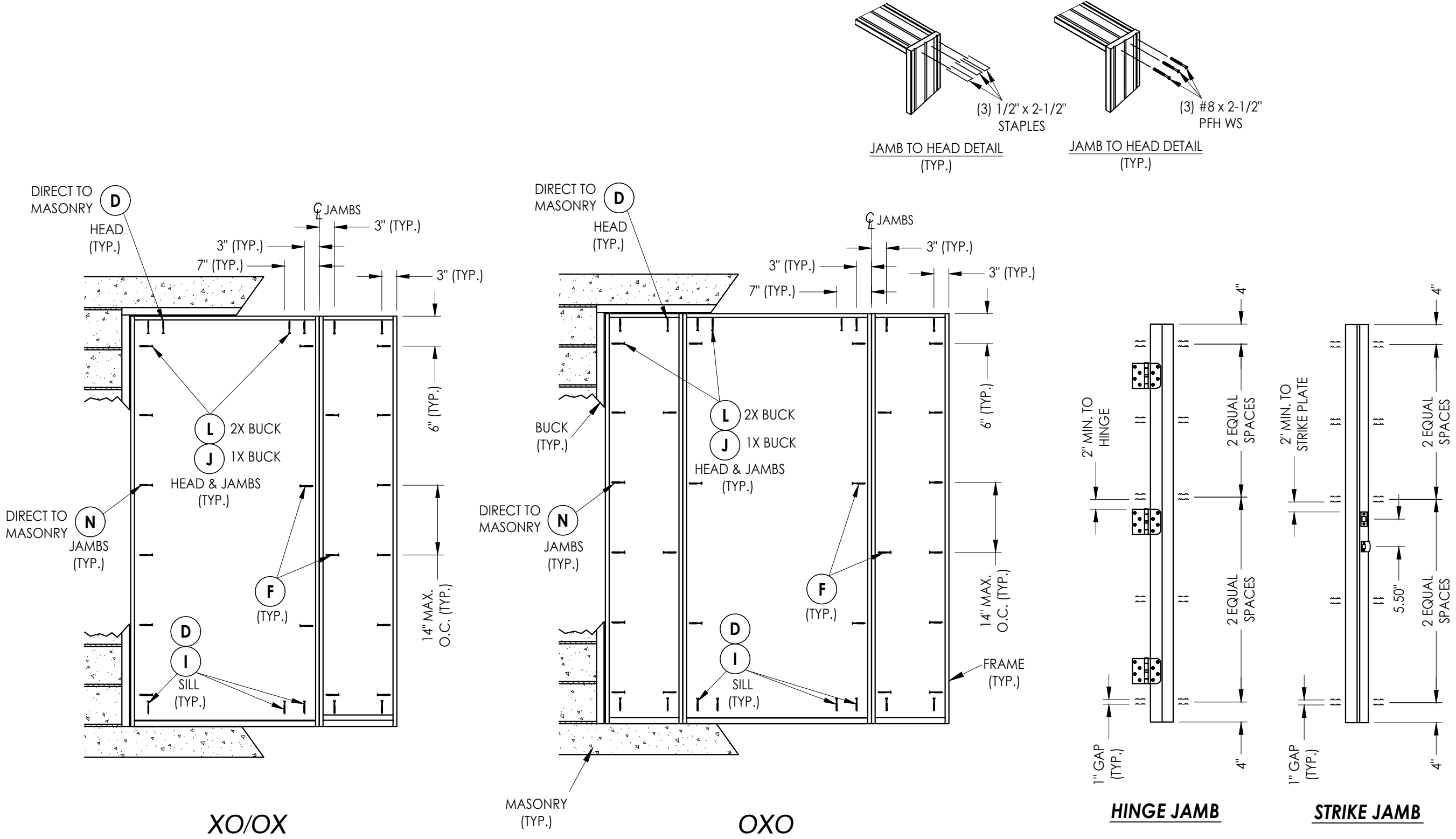
Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.5-8.dwg



2X BUCK ANCHORING

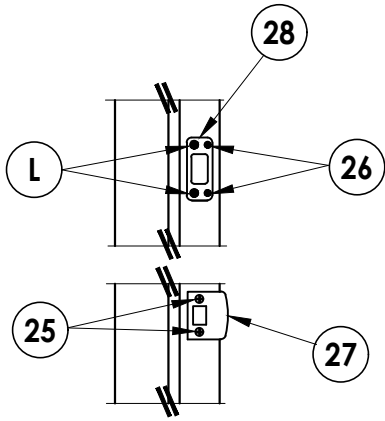
DATE: 07/07/17										Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409 4 8/21/23 UPDATE TO 8TH ED. (2023) FBC LFS 3 7/16/20 UPDATE TO 7th ED (2020) FBC PO 2 10/08/18 REV. DOOR PANEL OPTION NOTE MT 1 12/03/17 RECESSED PANEL NOTATION JK NO. DATE BY REVISIONS									
SCALE: N.T.S.																			
DWG. BY: JK																			
CHK. BY: LFS																			
DRAWING NO.: FL-21135.6																			
SHEET 10 OF 15																			
PRODUCT: THERMA-TRU FIBERGLASS DOOR										4 8/21/23 UPDATE TO 8TH ED. (2023) FBC LFS 3 7/16/20 UPDATE TO 7th ED (2020) FBC PO 2 10/08/18 REV. DOOR PANEL OPTION NOTE MT 1 12/03/17 RECESSED PANEL NOTATION JK NO. DATE BY REVISIONS									
PART OR ASSEMBLY: BUCK ANCHORING																			
BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813																			

Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.5-8.dwg

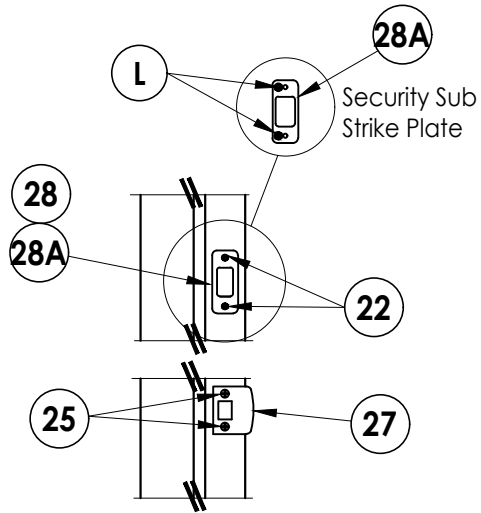


FRAME ANCHORING

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: FRAME ANCHORING			
4	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO			
2	10/08/18	REV. DOOR PANEL OPTION NOTE	MT				
1	12/03/17	RECESSED PANEL NOTATION	JK				
	NO.	DATE					
				REVISIONS			
DATE: 07/07/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21135.6							
SHEET 11 OF 15							

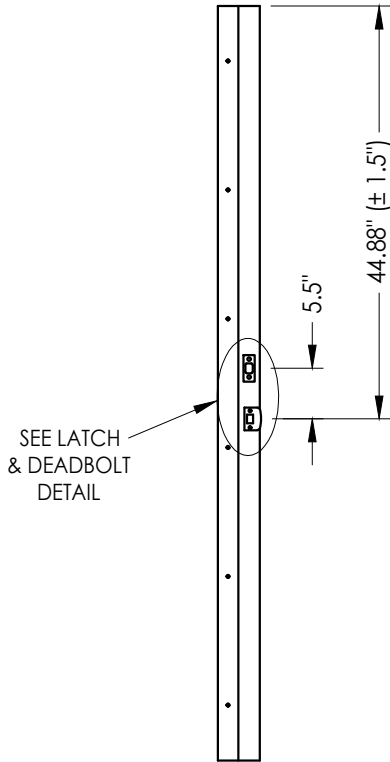


LATCH & DEADBOLT DETAIL

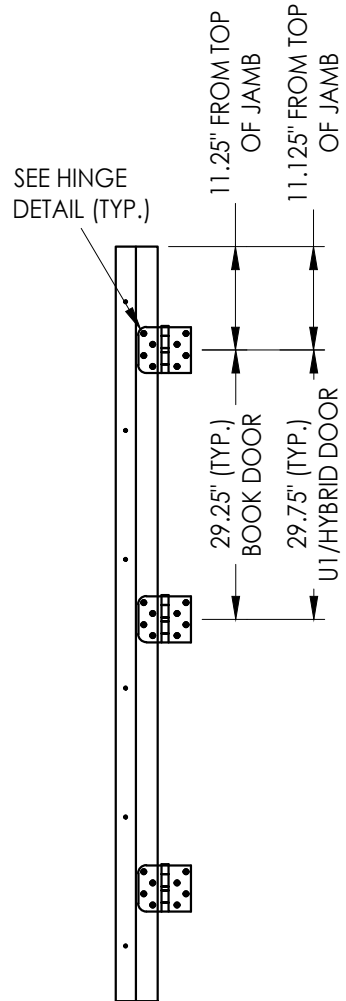


LATCH & DEADBOLT DETAIL

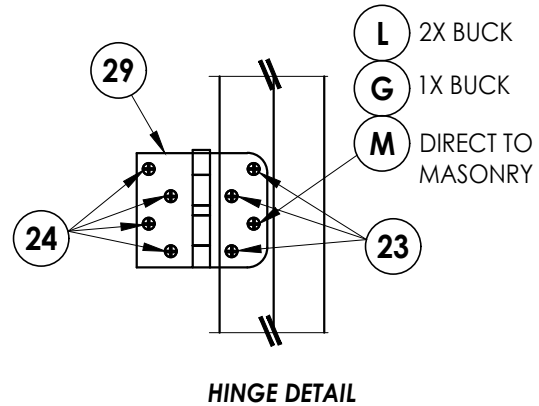
LATCH & DEADBOLT STRIKE DETAILS



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



HINGE DETAIL

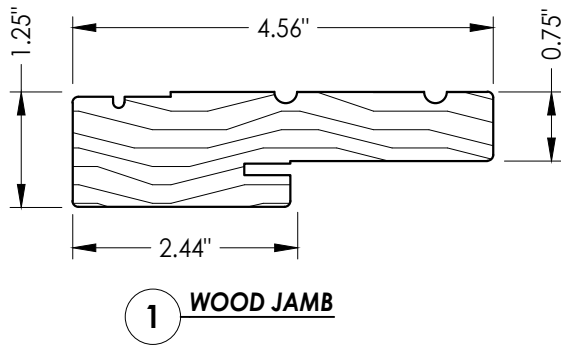
[illegible]

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

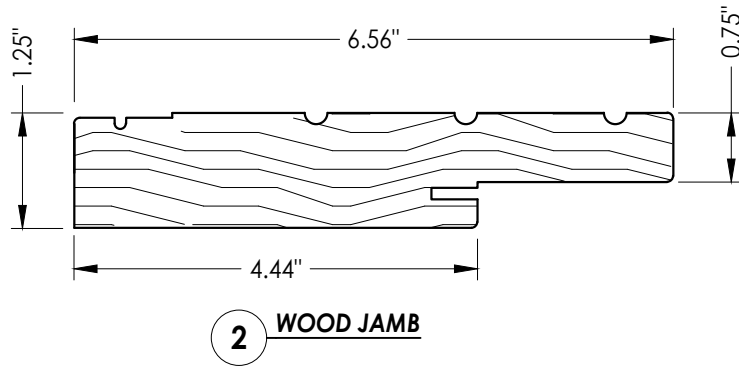
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

© 2017 R.W. BUILDING CONSULTANTS INC.

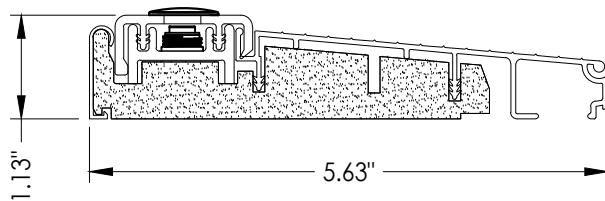
Z:\2023 FBC Drawings\Therma-Tru\FL-21135 R6\FL-21135.5-8.dwg



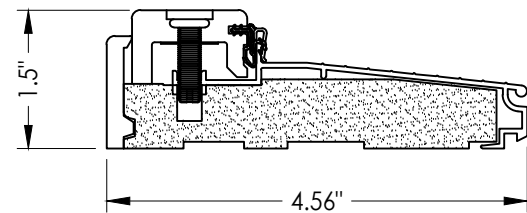
1 WOOD JAMB



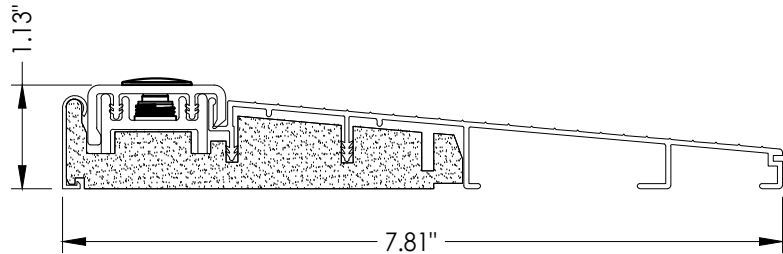
2 WOOD JAMB



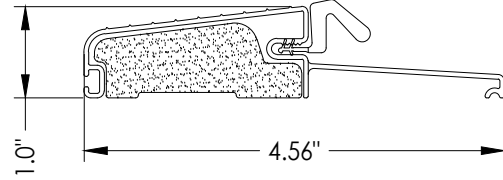
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



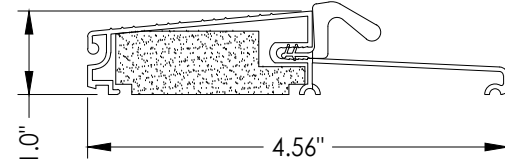
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



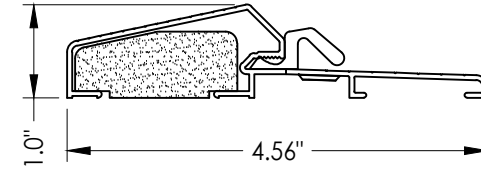
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



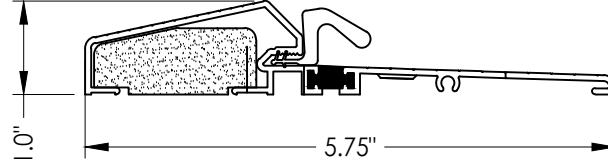
16 OUTSWING THRESHOLD
Composite Sill



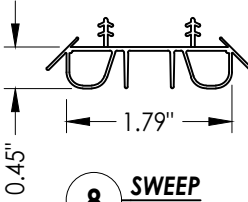
19 OUTSWING THRESHOLD
Composite Sill



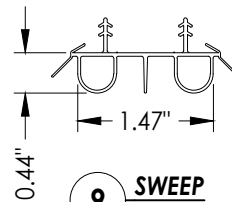
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



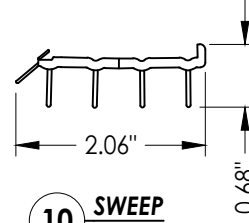
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



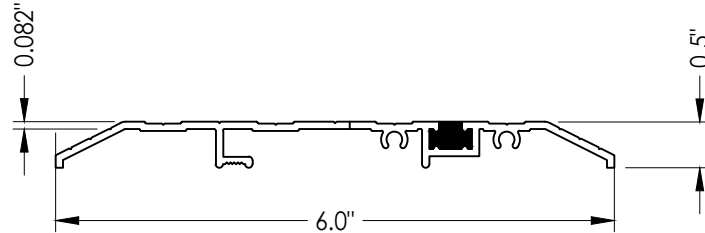
8 SWEEP



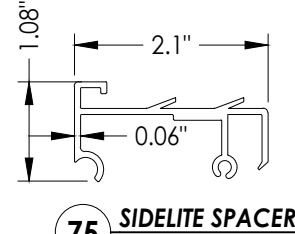
9 SWEEP



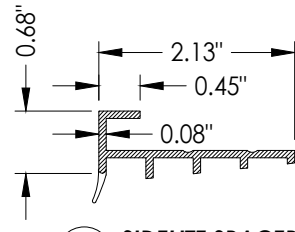
10 SWEEP



15 PUBLIC ACCESS THRESHOLD



75 SIDELITE SPACER



76 SIDELITE SPACER

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REV.	DOOR PANEL OPTION	RECESSED PANEL NOTATION	DATE	BY
4	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO		
2	10/08/18	REV. DOOR PANEL OPTION	NOTE	MT		
1	12/03/17	RECESSED PANEL NOTATION		JK		

DATE: 07/07/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21135.6
SHEET 14 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

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 (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
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)	-

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.

DATE: 07/07/17		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		THERMA-TRU FIBERGLASS DOOR		Lyndon F. Schmidt P.E. No. 43409	
DWG. BY: JK		PART OR ASSEMBLY:		BUILDING CONSULTANTS, INC.	
CHK. BY: LFS		BILL OF MATERIALS		P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-21135.6					
SHEET 15 OF 15					