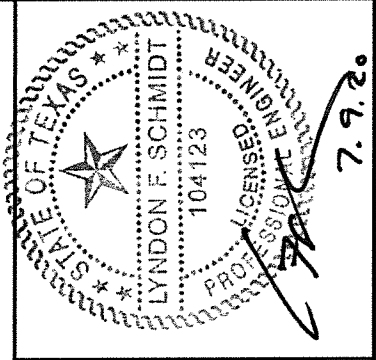




# SURE ROCK OPAQUE FIBERGLASS ENTRY DOORS

## IN SWING / OUT SWING "NON-IMPACT"



Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

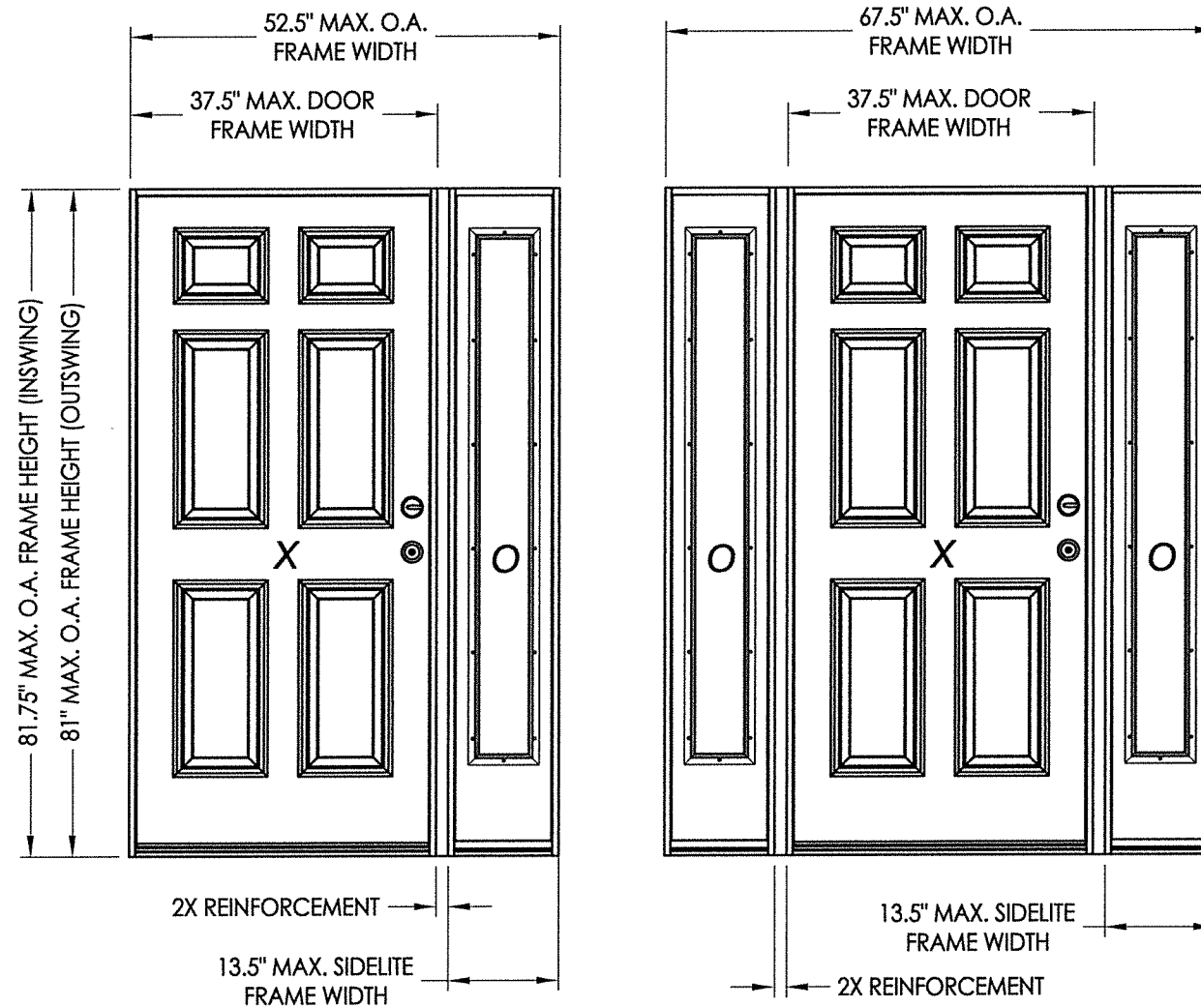
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

### TDI DR-835

#### EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.



CONFIGURATION	MAX. FRAME DIMENSION	REINFORCEMENT	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO/OX	52.5" x 81.75"	2X	+45.0	-55.0	+45.0	-45.0
OXO	67.5" x 81.75"	2X	+45.0	-55.0	+45.0	-45.0

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Sidelite Panel Details
4	Elevations
5	Horizontal & Vertical Cross Sections
6	Vertical Cross Sections
7	Frame Anchoring
8	Bill of Materials & Components

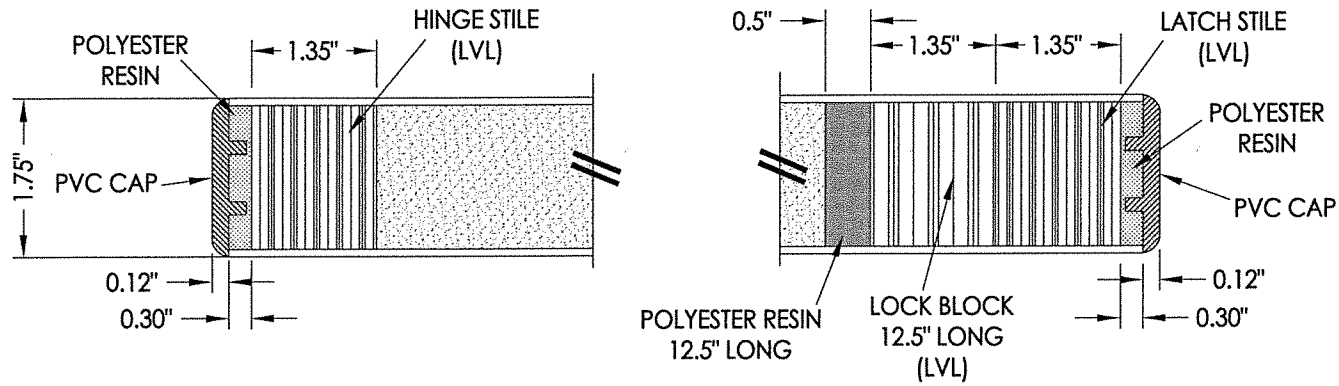
PRODUCT: SURE ROCK FIBERGLASS DOORS

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

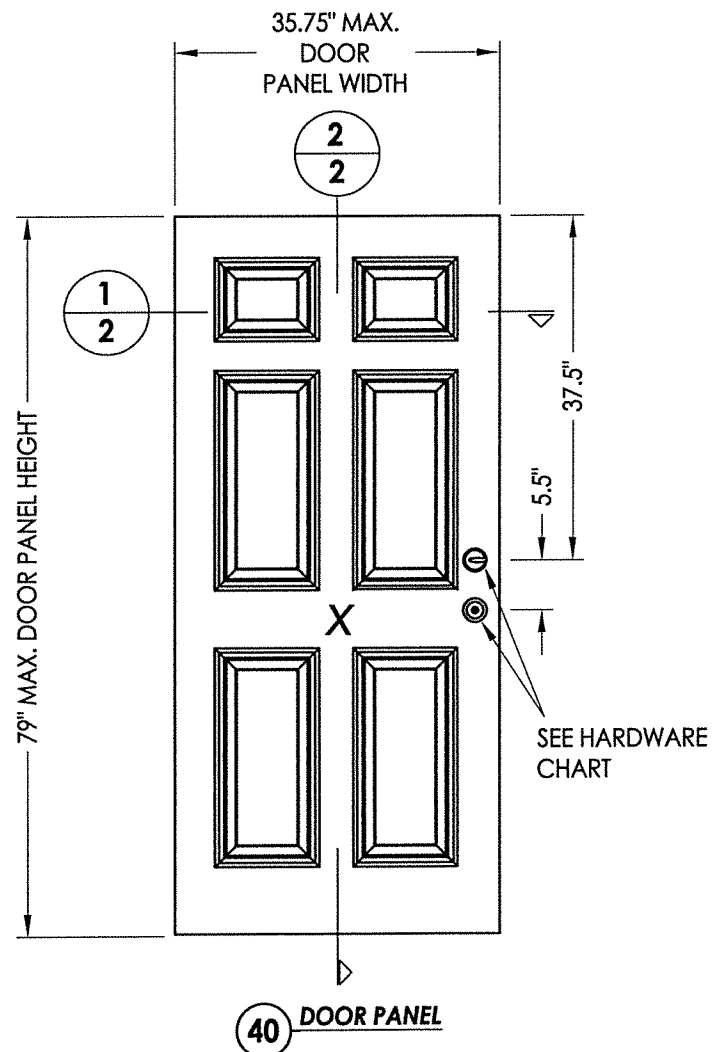
NO.	DATE	DESCRIPTION	BY
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE	LFS

REVISIONS

DATE: 1/09/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4819  
SHEET 1 OF 8



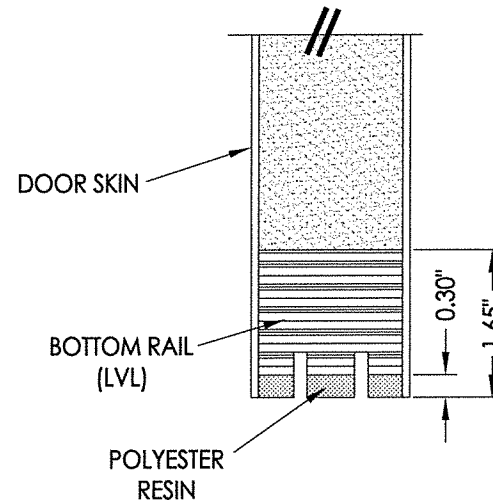
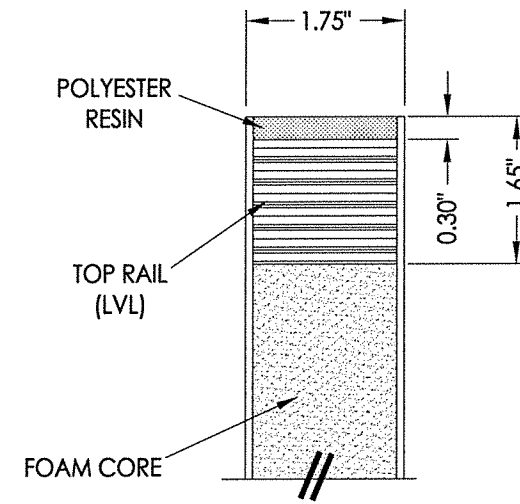
1  
2 **HORIZONTAL CROSS SECTION**



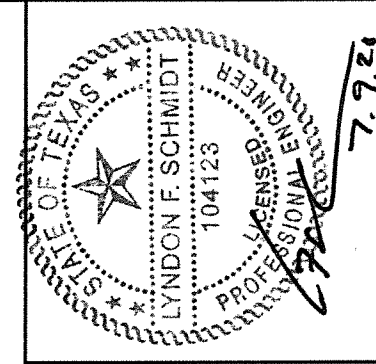
40 **DOOR PANEL**

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: Signature Series
	DEADBOLT: Signature Series (980)
SCHLAGE	KNOB: F Series (F51)
	DEADBOLT: B Series (B60N)

FIBERGLASS DOOR SKIN: MIN. 0.080" THK.  
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)



2  
2 **VERTICAL CROSS SECTION**



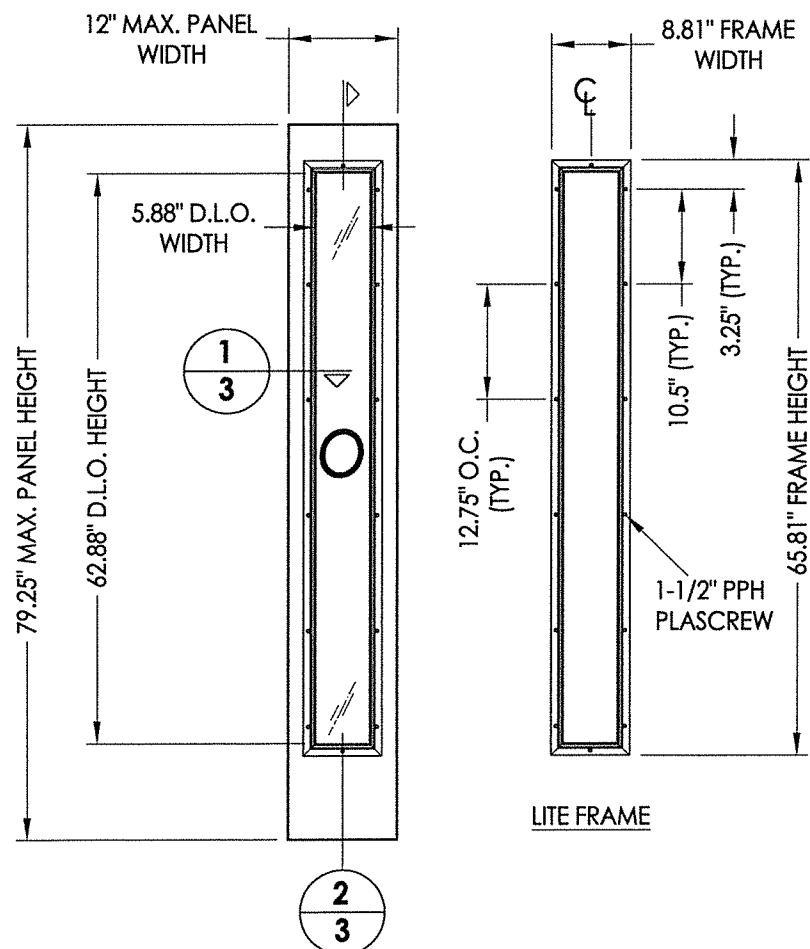
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SURE ROCK FIBERGLASS DOORS  
PART OR ASSEMBLY: DOOR PANEL DETAILS

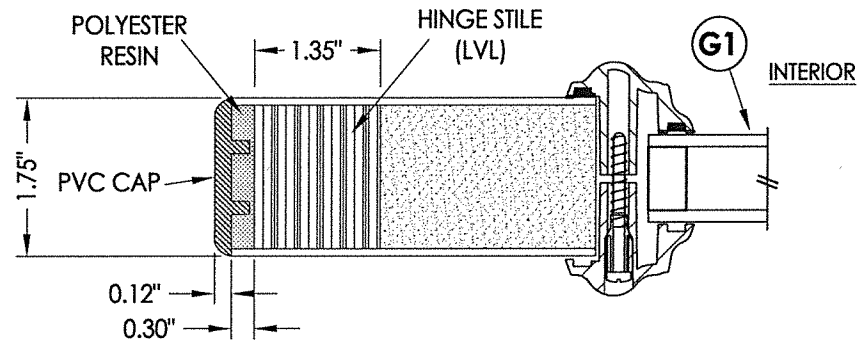
NO.	DATE	DESCRIPTION	BY
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE	LFS
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DATE: 1/09/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4819  
SHEET 2 OF 8

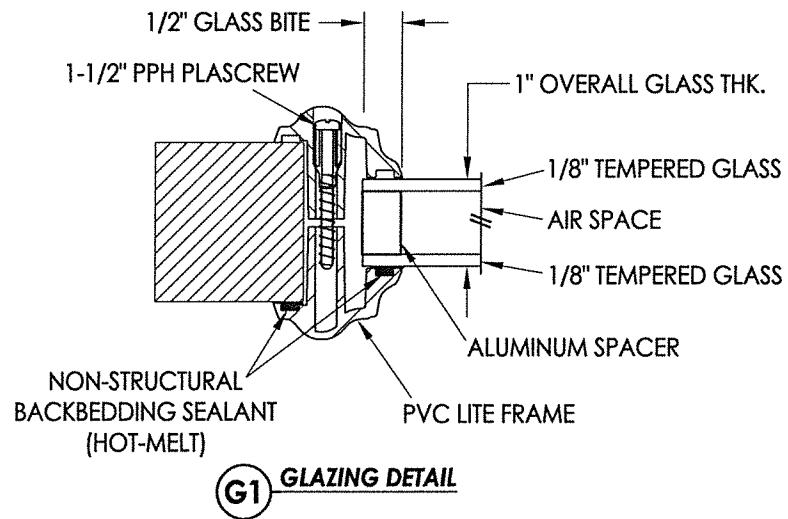


**40 SIDELITE PANEL**

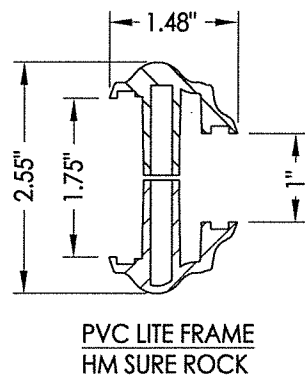
FIBERGLASS SIDELITE SKIN: MIN. 0.070" THK.  
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)



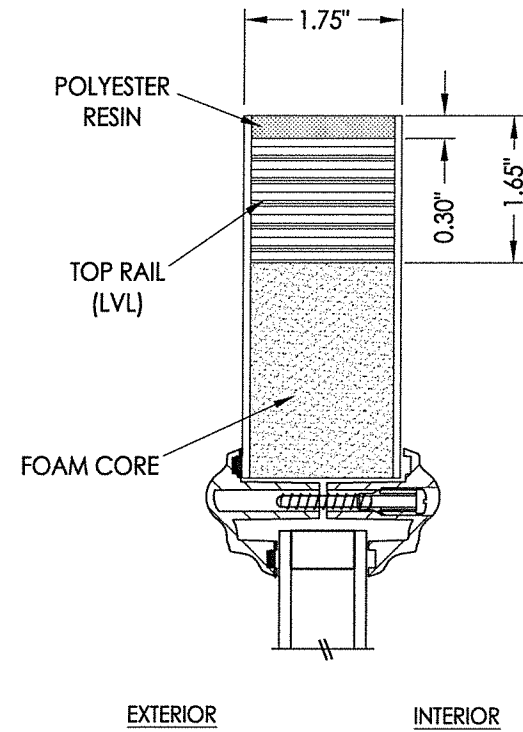
**1 HORIZONTAL CROSS SECTION**



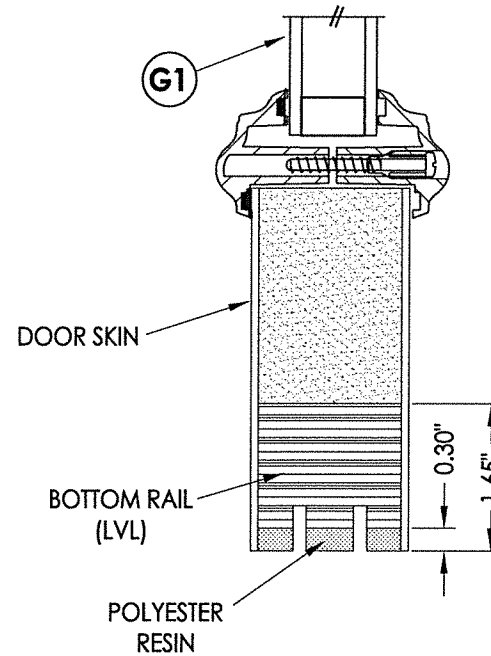
**G1 GLAZING DETAIL**



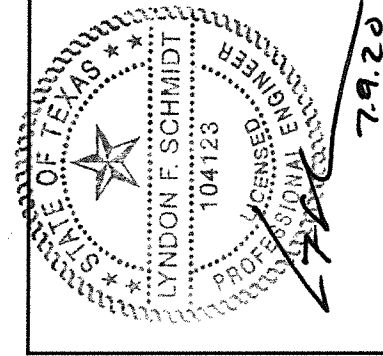
**PVC LITE FRAME  
HM SURE ROCK**



**EXTERIOR INTERIOR**



**2 VERTICAL CROSS SECTION**



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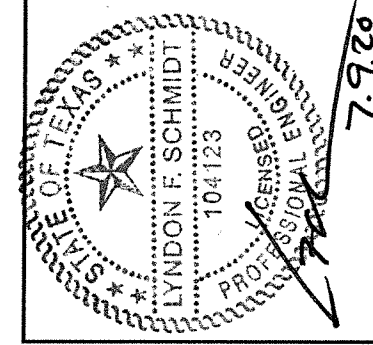
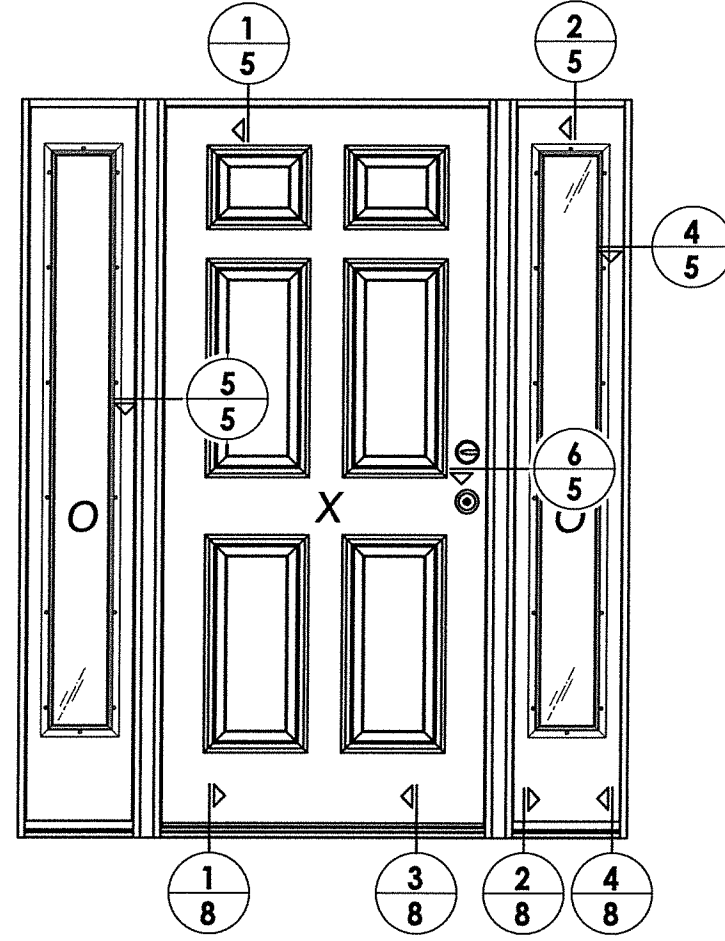
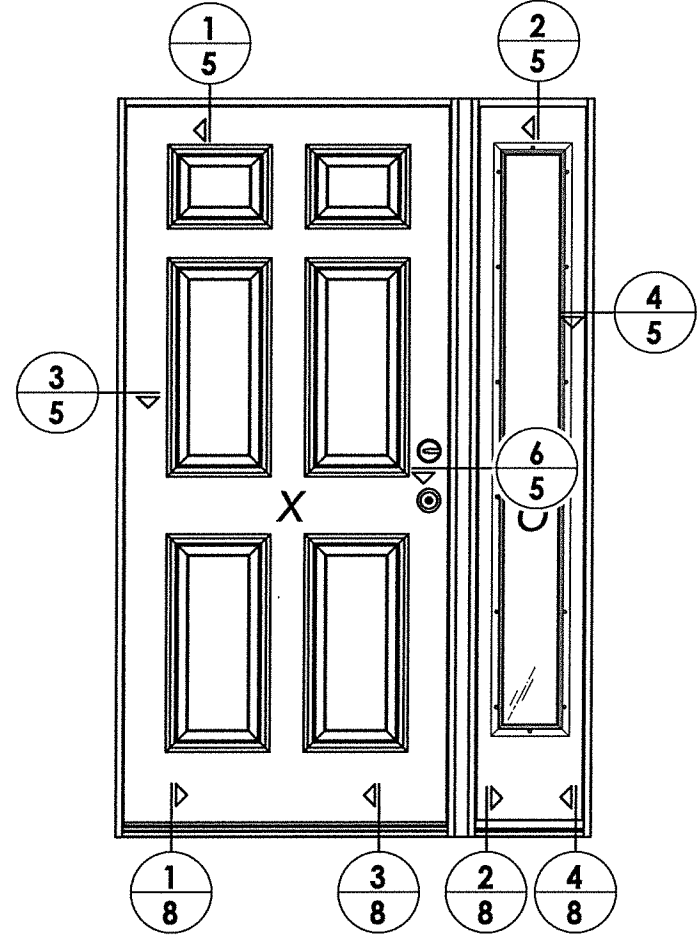
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Phone No.: 813.659.9197

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PRODUCT:	SURE ROCK FIBERGLASS DOORS
PART OR ASSEMBLY:	SIDELITE PANEL DETAILS

NO.	DATE	DESCRIPTION	BY
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	1/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4819
SHEET	3 OF 8



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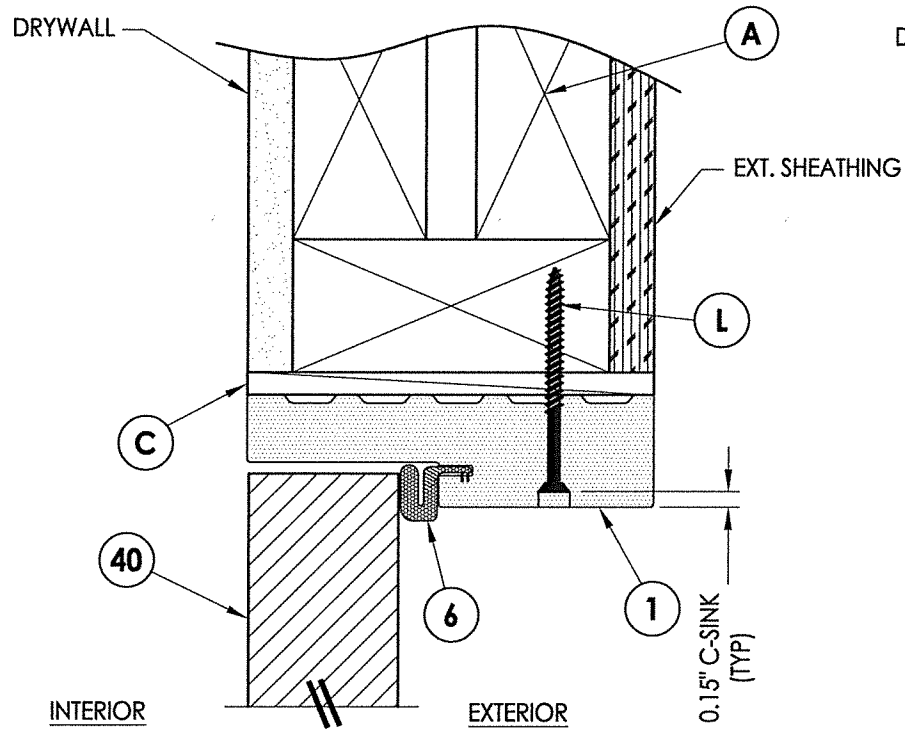
**RW** BUILDING CONSULTANTS, INC.  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SURE ROCK FIBERGLASS DOORS  
PART OR ASSEMBLY: ELEVATIONS

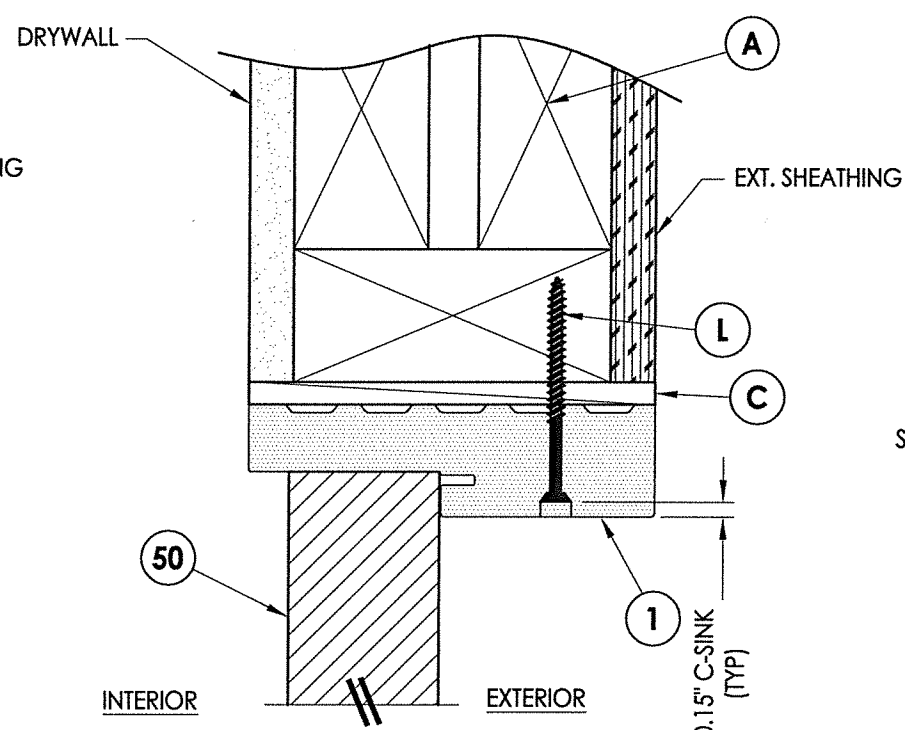
NO.	DATE	DESCRIPTION	BY
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 1/09/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4819  
SHEET 4 OF 8

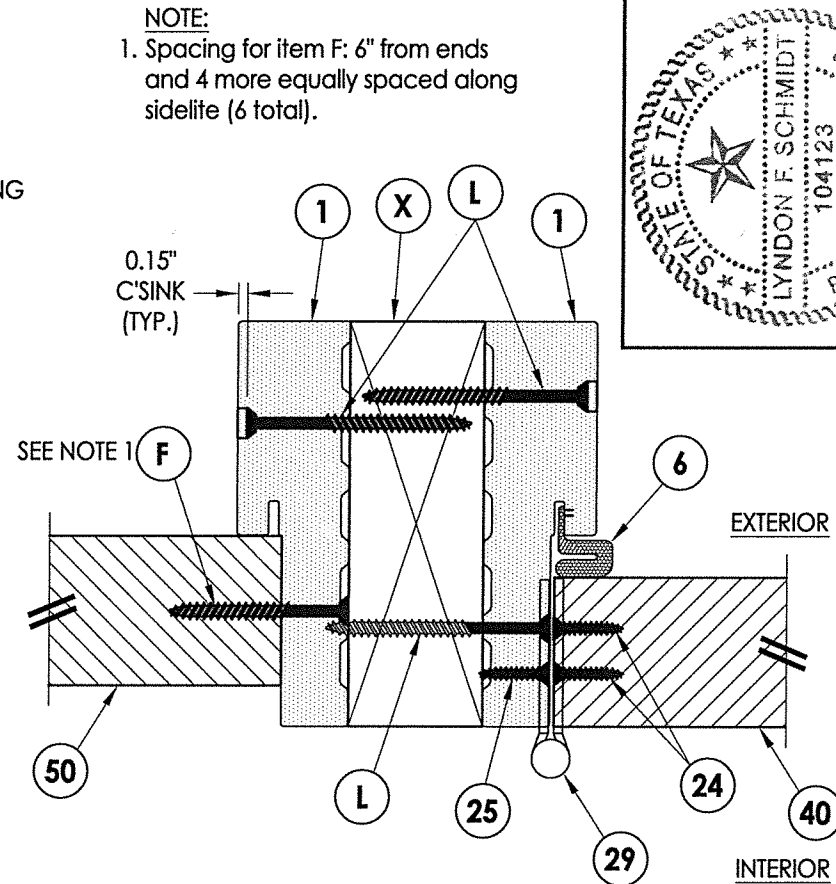
R:\Clients\HM Sure Rock PERMANENTVB - Texas Dept of Ins\DR-835 - 6'8 Fiberglass Non-Impact Door - Opaque\C - Drawings\TX-4818-20.dwg, 5.2



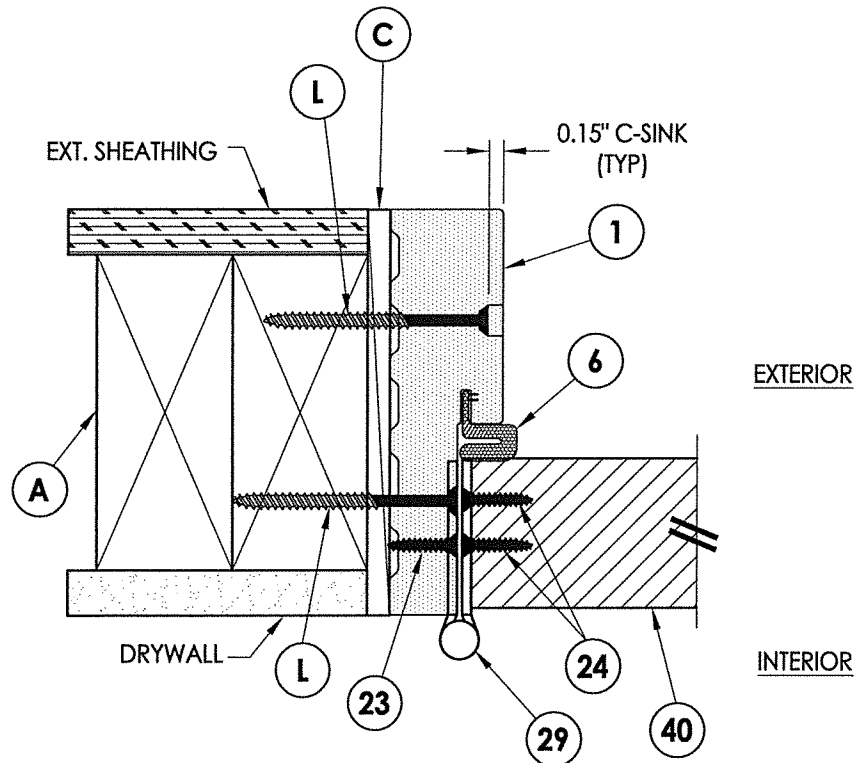
**1** VERTICAL CROSS SECTION  
**5** Inswing shown (Outswing similar)



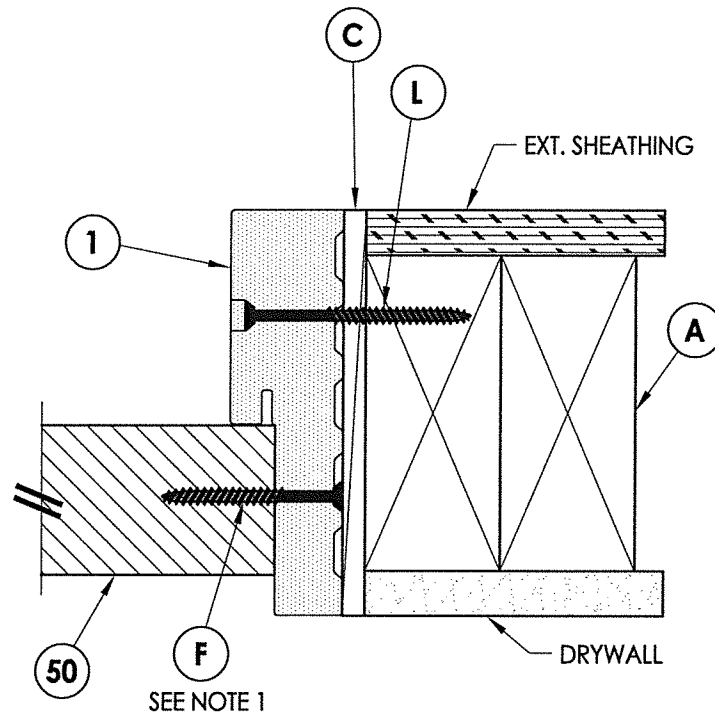
**2** VERTICAL CROSS SECTION  
**5** Inswing shown (Outswing similar)



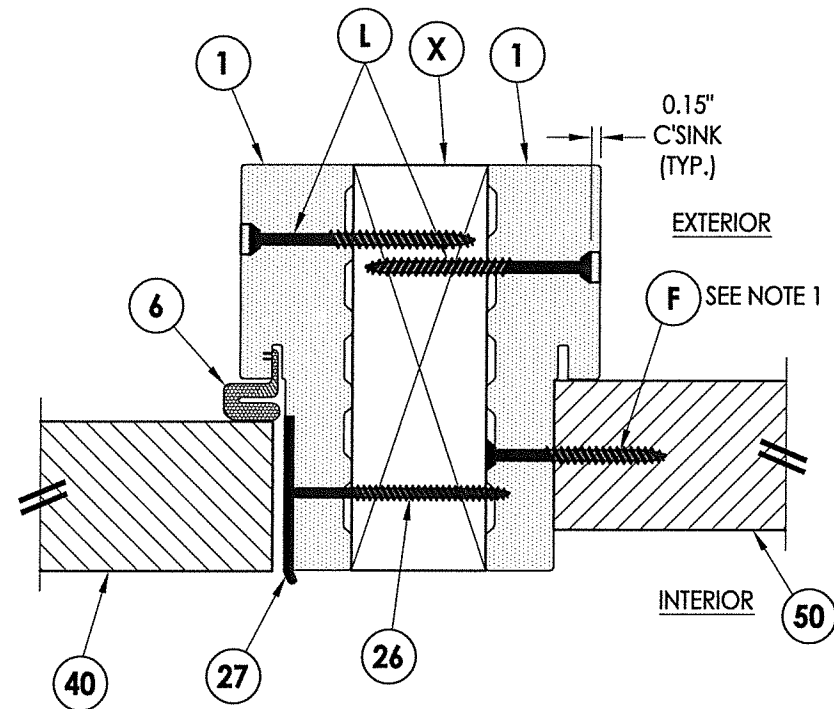
**5** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)



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

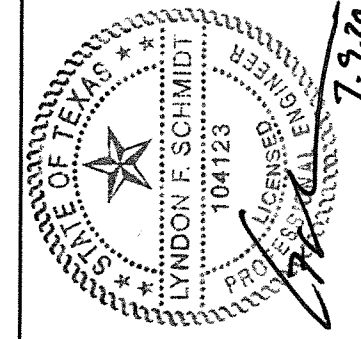


**4** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)



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

NOTE:  
 1. Spacing for item F: 6" from ends  
 and 4 more equally spaced along  
 sidelite (6 total).



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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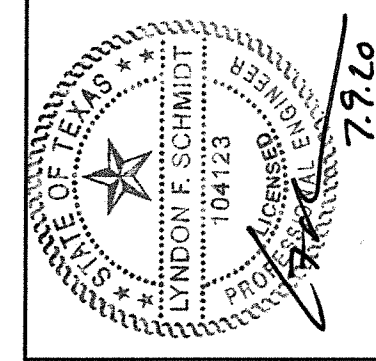
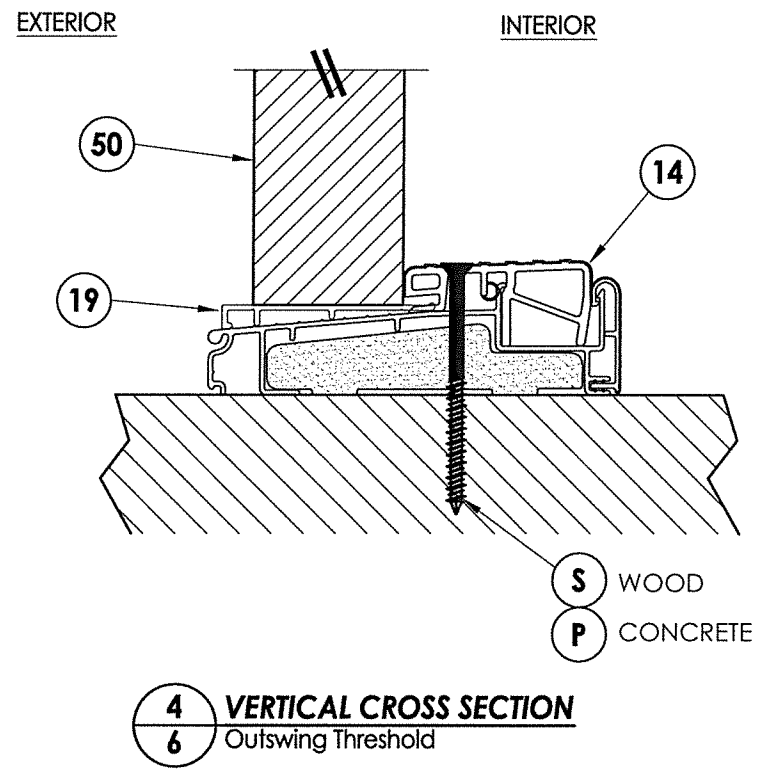
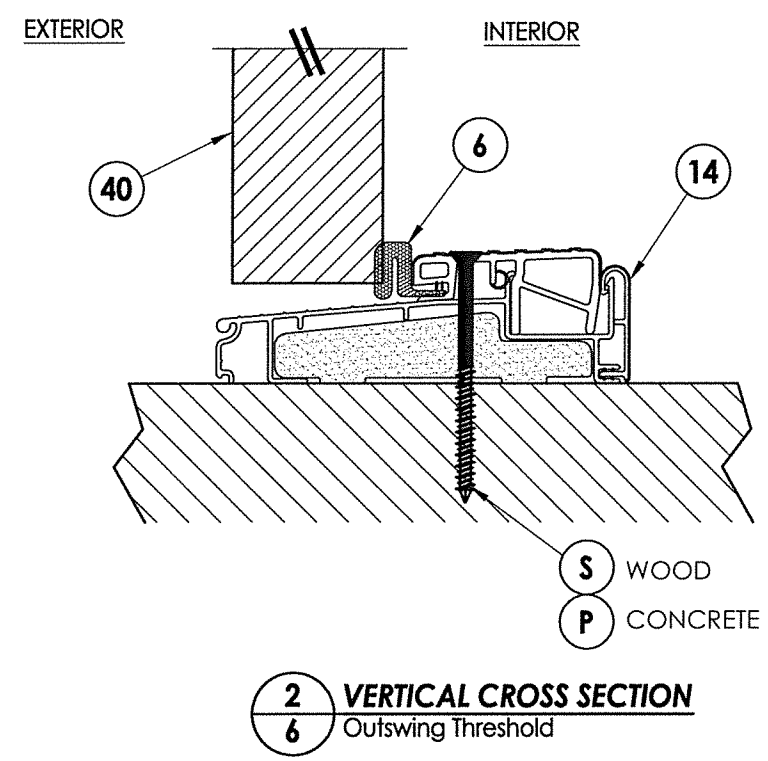
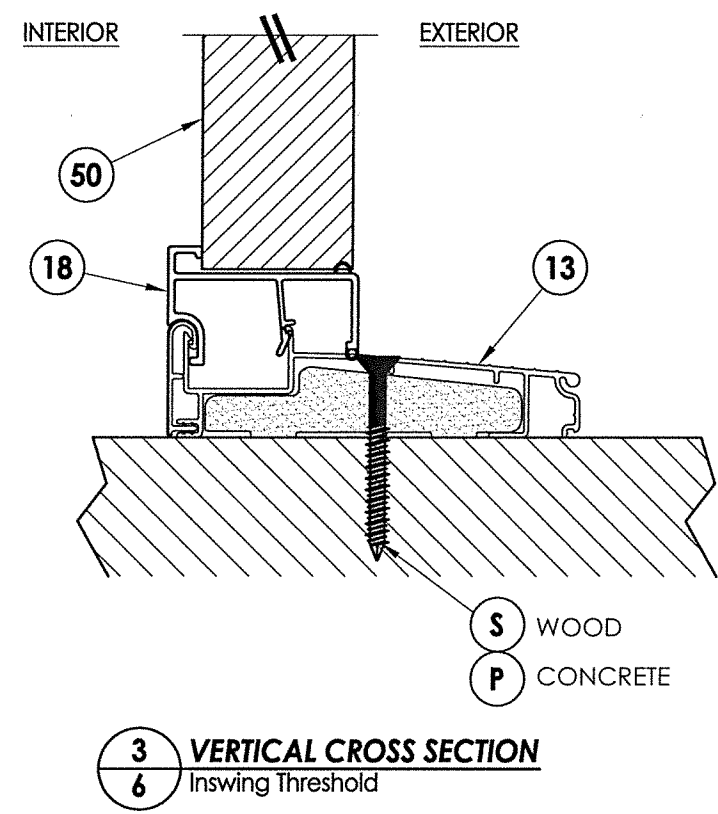
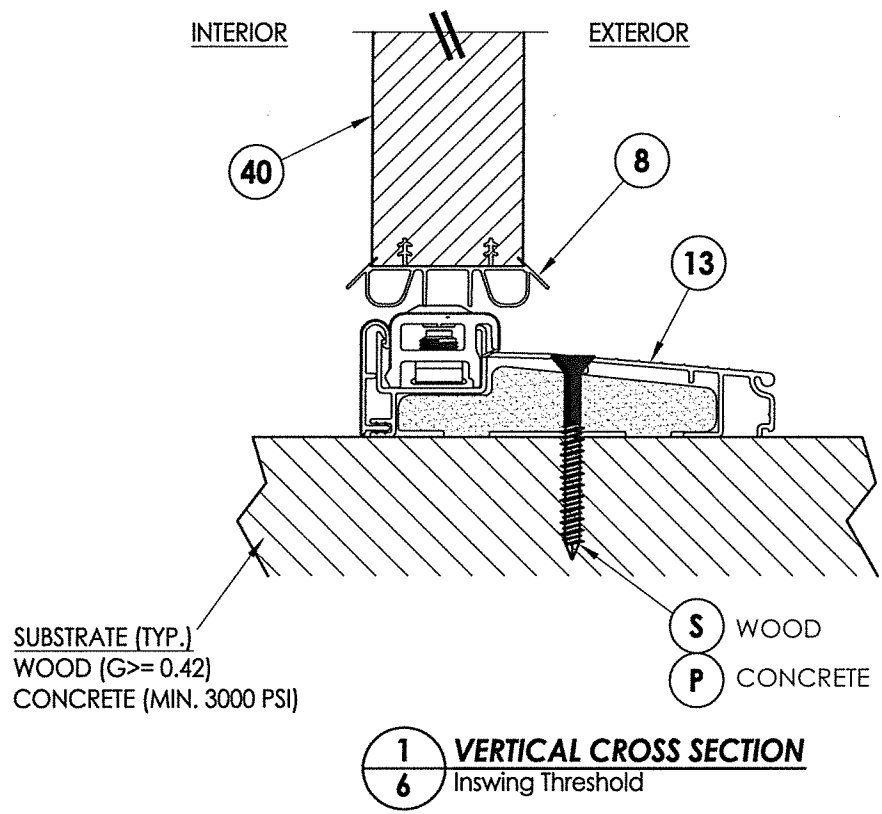
PRODUCT: SURE ROCK FIBERGLASS DOORS

PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	BY
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 1/09/17  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: TX-4819  
 SHEET 5 OF 8

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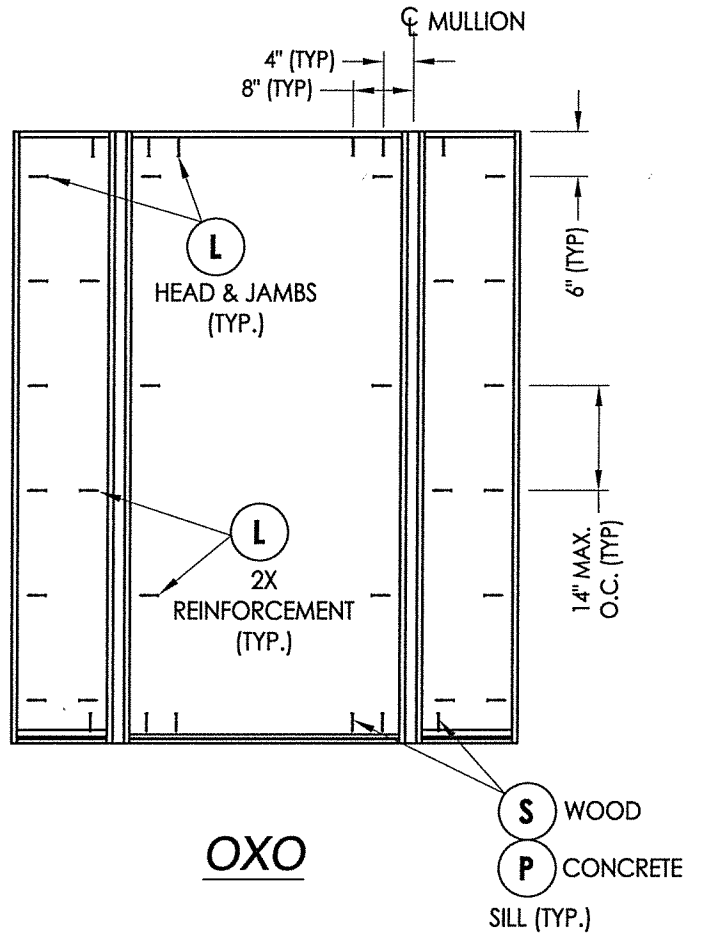
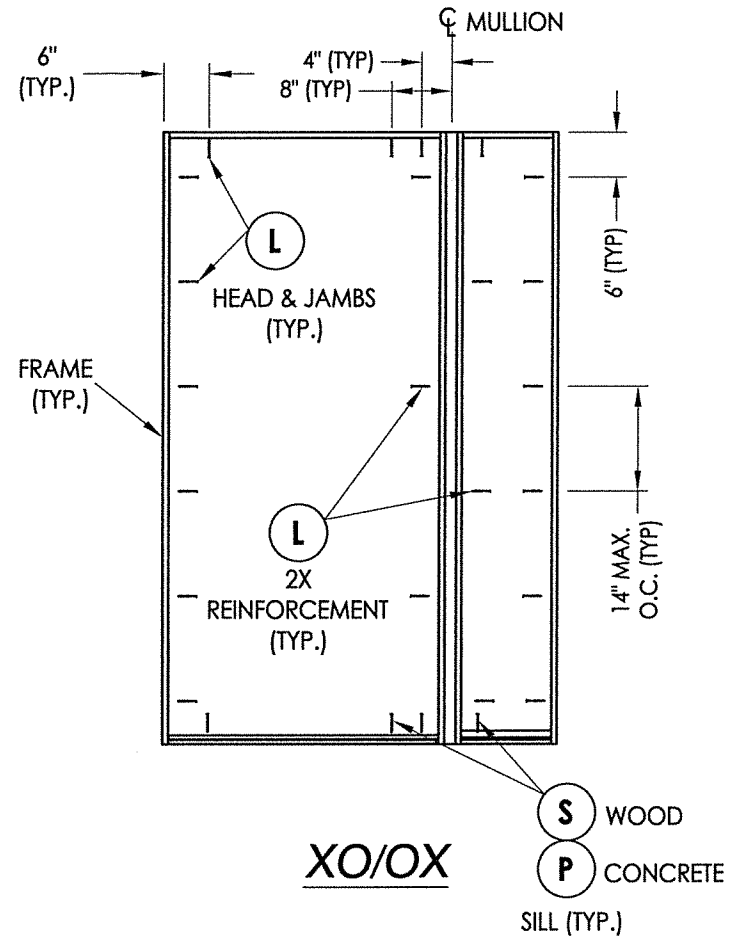
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SURE ROCK FIBERGLASS DOORS

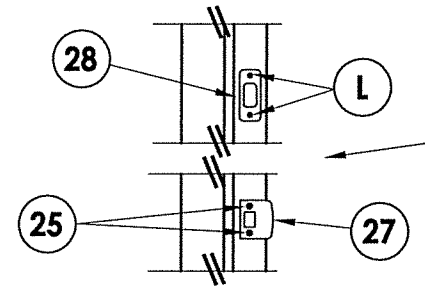
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

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1	7/09/20	UPDATE TO 2018 IBC/IRC CODE	LFS

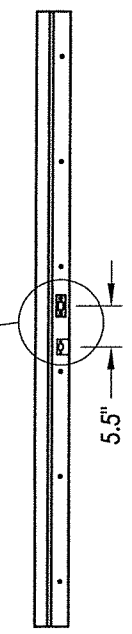
DATE: 1/09/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4819  
SHEET 6 OF 8



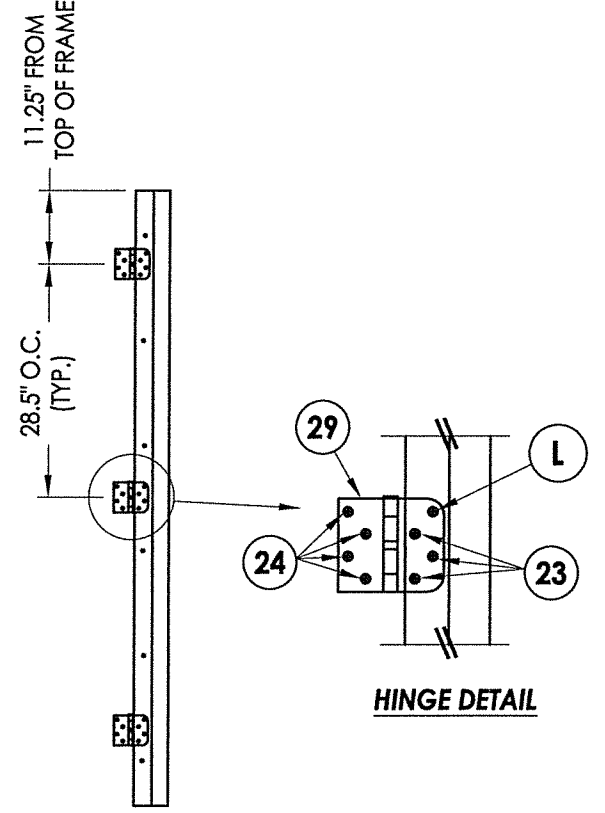
**FRAME ANCHORING**



**LATCH AND DEADBOLT STRIKE PLATE DETAILS**

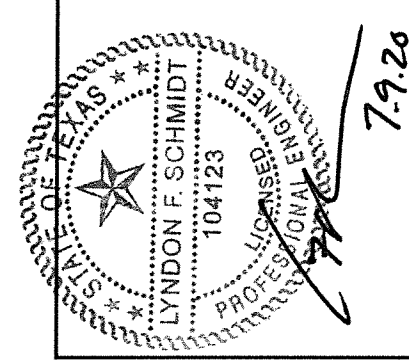


**STRIKE JAMB**



**HINGE DETAIL**

**HINGE JAMB**



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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	SURE ROCK FIBERGLASS DOORS
PART OR ASSEMBLY:	FRAME ANCHORING

NO.	DATE	DESCRIPTION	BY
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	1/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4819
SHEET	7 OF 8

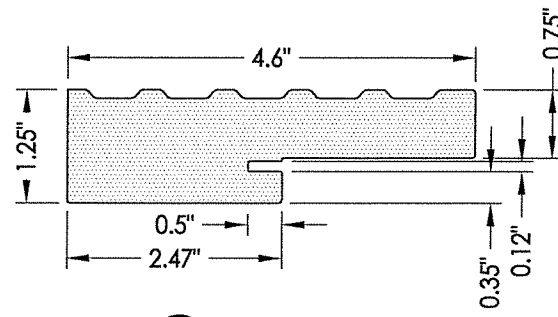
**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
P	1/4" PFH CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
S	#10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
X	2X REINFORCEMENT (G >= 0.55)	WOOD
1	FRAME (SURE JAMB)	COMP
6	WEATHERSTRIP (Q-LON)	FOAM
8	SWEEP	VINYL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
18	INSWING SIDELITE SPACER	PVC
19	OUTSWING SIDELITE SPACER	PVC
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
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL	-

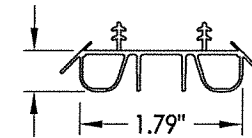
**CONCRETE ANCHOR NOTES:**

- 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:

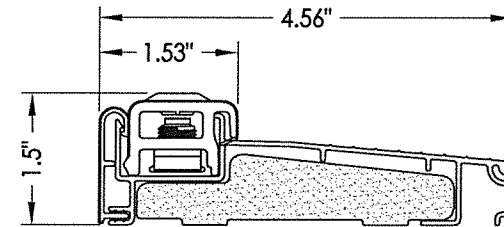
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	1"	4"



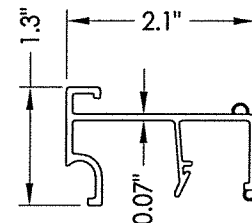
**1 FRAME SURE JAMB**



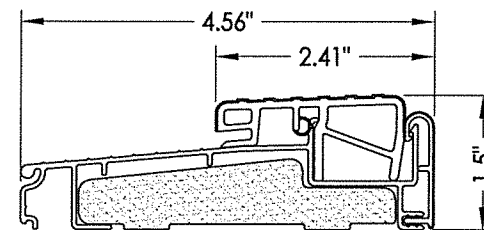
**8 SWEEP**



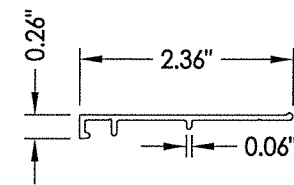
**13 INSWING THRESHOLD ENDURA (Z-SERIES)**



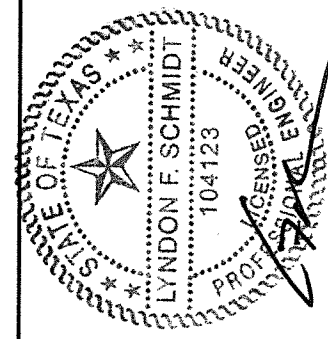
**18 INSWING SIDELITE SPACER**



**14 OUTSWING THRESHOLD ENDURA (Z-SERIES)**



**19 OUTSWING SIDELITE SPACER**



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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	SURE ROCK FIBERGLASS DOORS	
PART OR ASSEMBLY:	BILL OF MATERIALS & COMPONENTS	
NO.	DATE	REVISIONS
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE
LFS	BY	
DATE:	1/09/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4819	
SHEET	8	OF 8