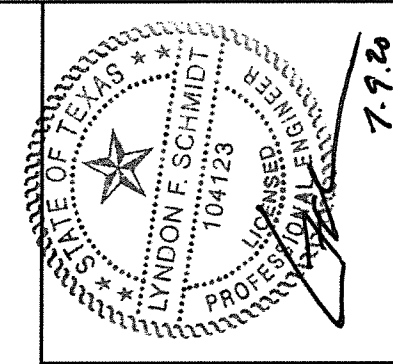
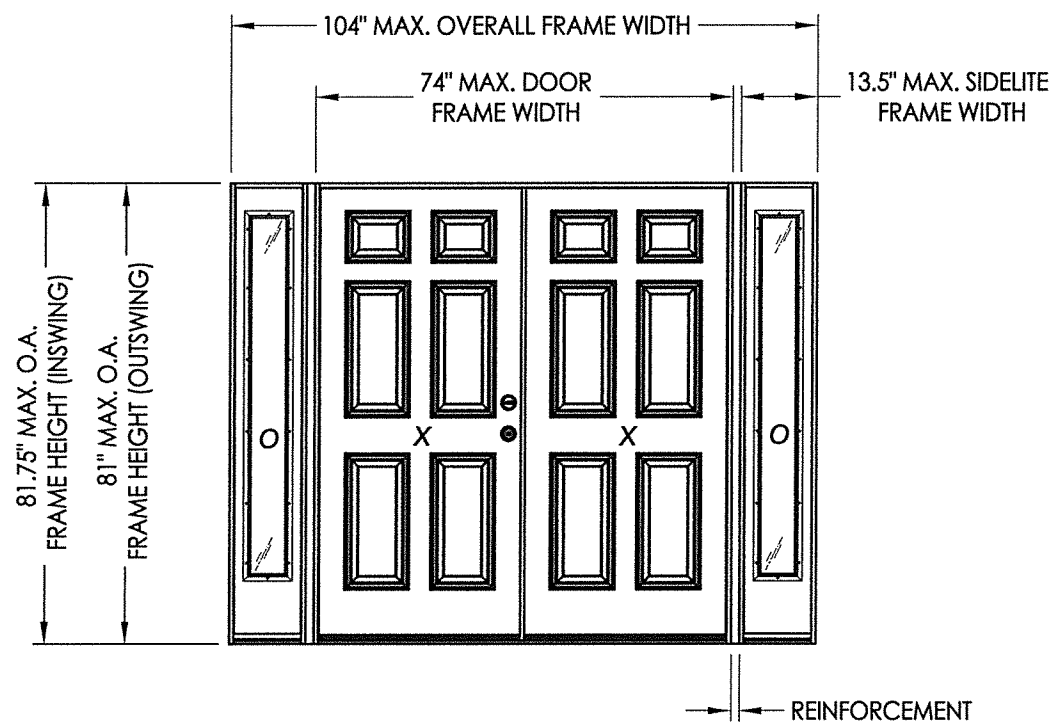
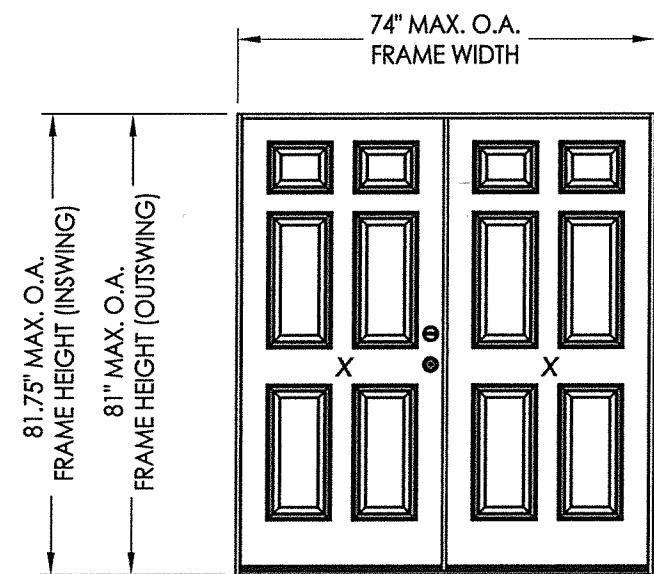




# SURE ROCK OPAQUE FIBERGLASS ENTRY DOORS INSWING / OUTSWING "NON-IMPACT"



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

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

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

### EVALUATED FOR USE IN THE STATE OF TEXAS

### TDI DR-835

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.

### 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 & Hardware Details
8	Bill of Materials & Components

CONFIGURATION	MAX. FRAME DIMENSION	REINFORCEMENT	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	74.0" x 81.75"	N/A	+60.0	-60.0	+60.0	-60.0
OXXO	101.0" x 81.75"	NONE	+40.0	-40.0	+40.0	-40.0
OXXO	102.5" x 81.75"	1X	+55.0	-55.0	+55.0	-55.0
OXXO	104.0" x 81.75"	2X	+60.0	-60.0	+60.0	-60.0

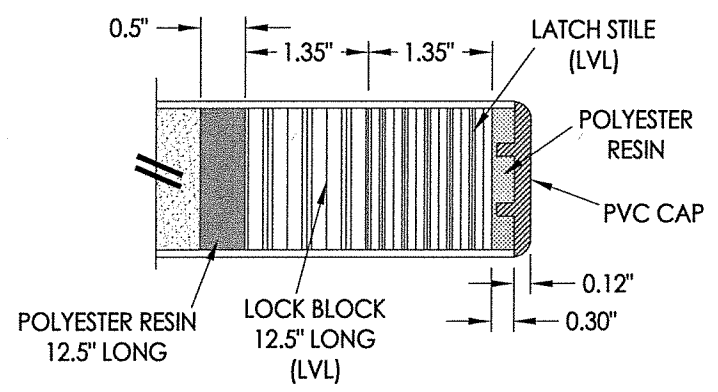
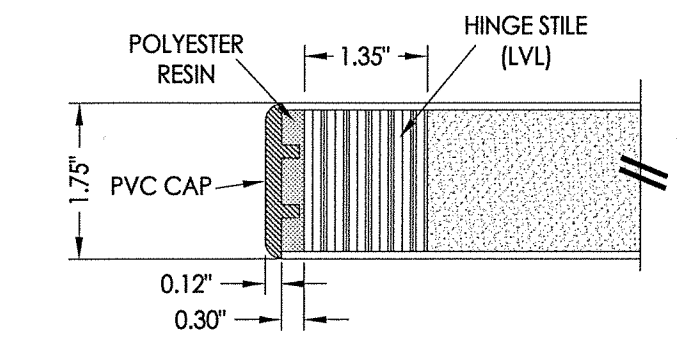
PRODUCT: SURE ROCK FIBERGLASS DOORS

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

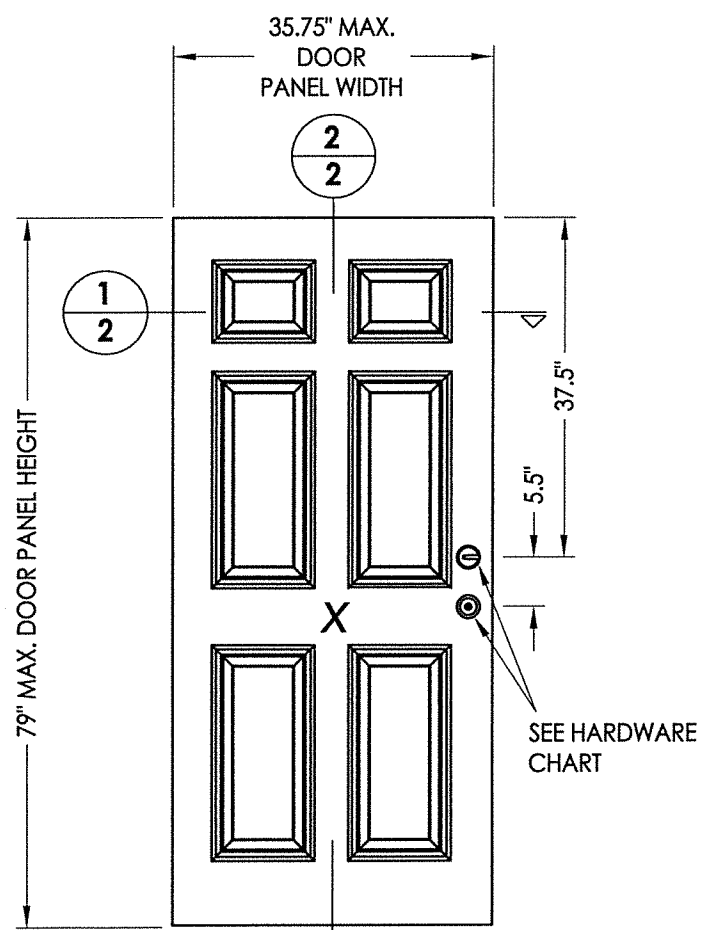
NO.	DATE	REVISIONS
1	7/09/20	UPDATE TO 2018 IBC/IRC CODE

DATE: 1/09/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4820  
SHEET 1 OF 8

R:\Clients\HM Sure Rock PERMANENT\B - Texas Dept of Ins\DR-835 - 618 Fiberglass Non-Impact Door - Opaque\C - Drawings\TX-4818-20.dwg, 2.3

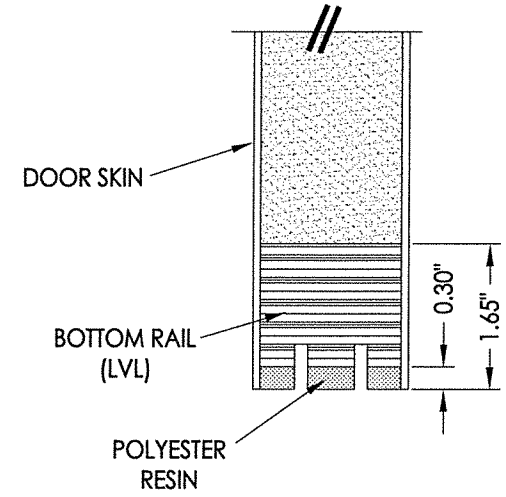
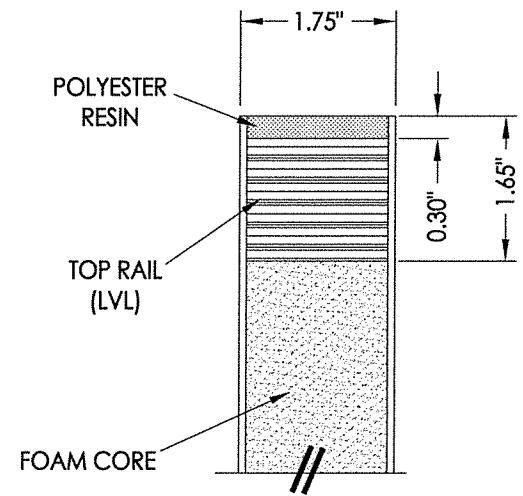


1  
2  
**HORIZONTAL CROSS SECTION**



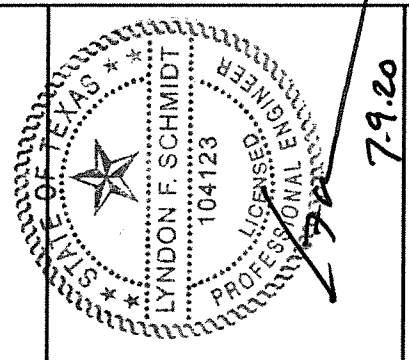
40 **DOOR PANEL**

HARDWARE TABLE			
MANUFACTURER	MODEL		MAX. DESIGN PRESSURE
KWIKSET	KNOB:	Signature Series	± 60 PSF
	DEADBOLT:	Signature Series (980)	
SCHLAGE	KNOB:	F Series (F51)	± 55 PSF
	DEADBOLT:	B Series (B60N)	



2  
2  
**VERTICAL CROSS SECTION**

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



7-9-20

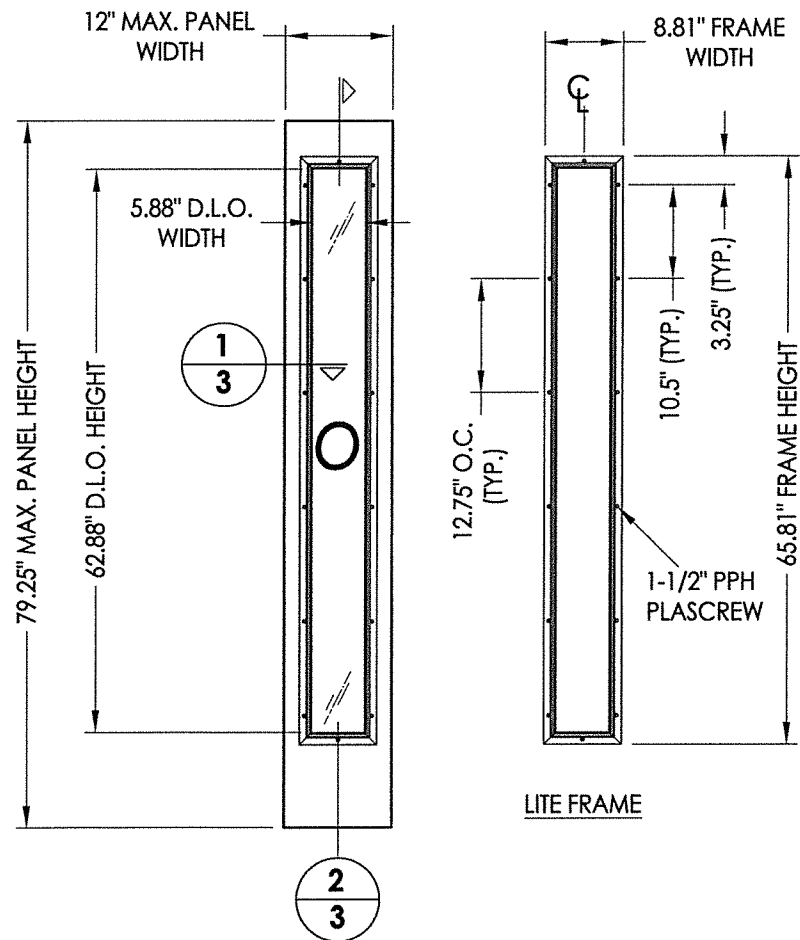
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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**RW** BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197

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

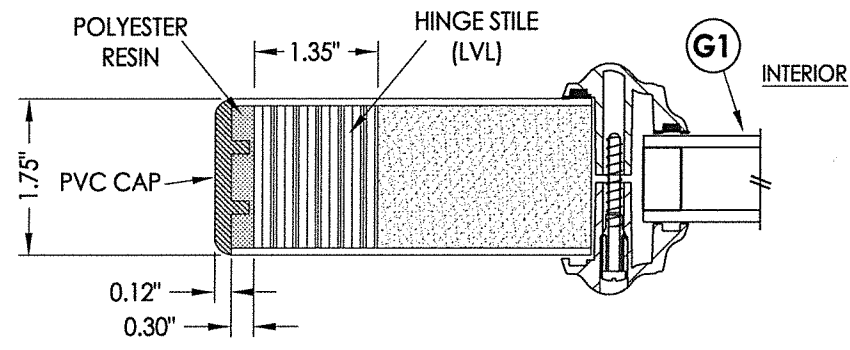
PRODUCT:	SURE ROCK FIBERGLASS DOORS
PART OR ASSEMBLY:	DOOR PANEL DETAILS
DATE:	1/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4820
SHEET	2 OF 8

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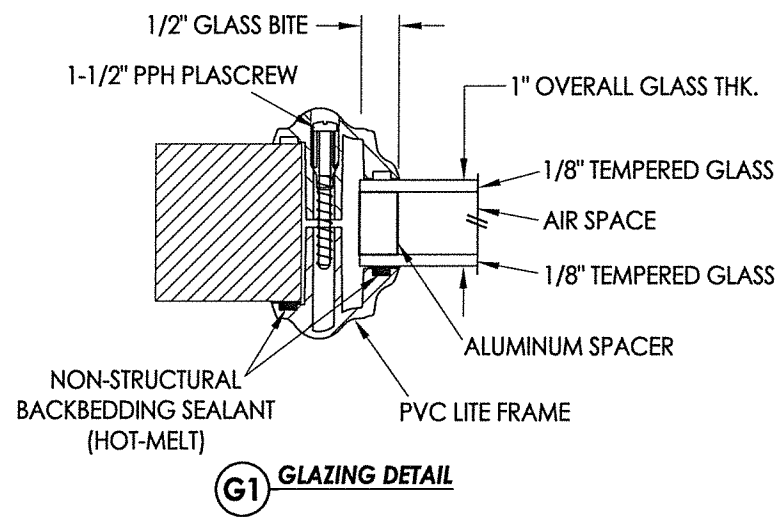


**40 SIDELITE PANEL**

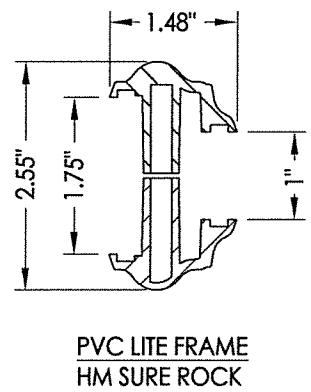
FIBERGLASS SIDELITE SKIN: MIN. 0.070" THK.  
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)



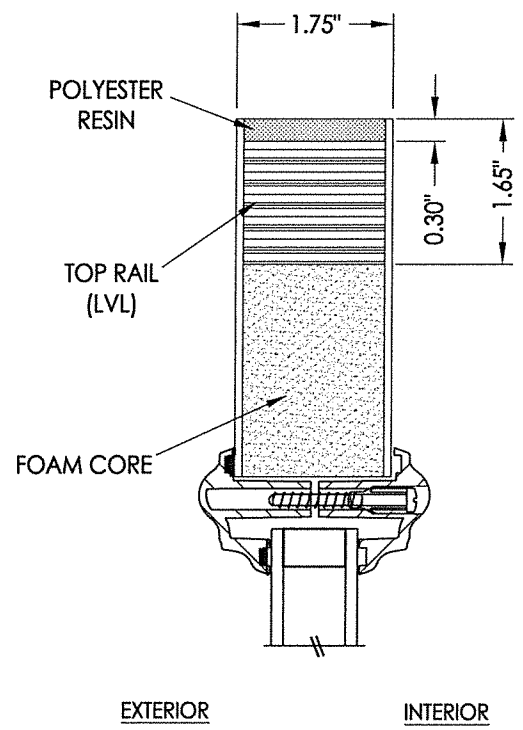
**1 HORIZONTAL CROSS SECTION**



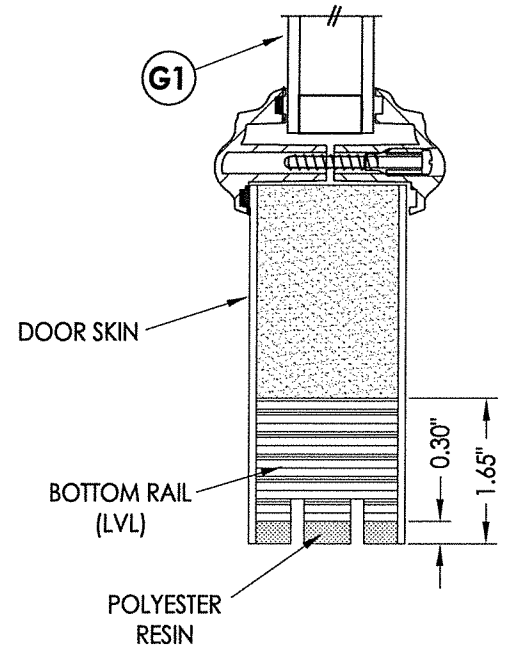
**G1 GLAZING DETAIL**



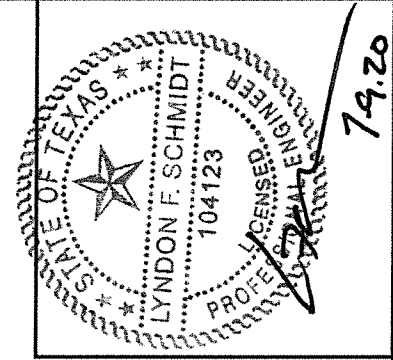
**PVC LITE FRAME  
HM SURE ROCK**



**2 VERTICAL CROSS SECTION**



**2 VERTICAL CROSS SECTION**

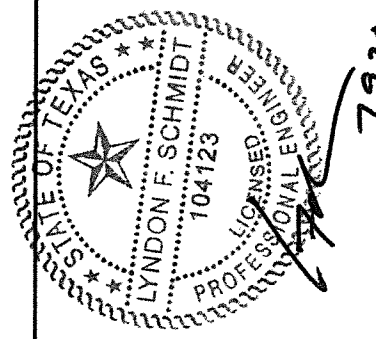
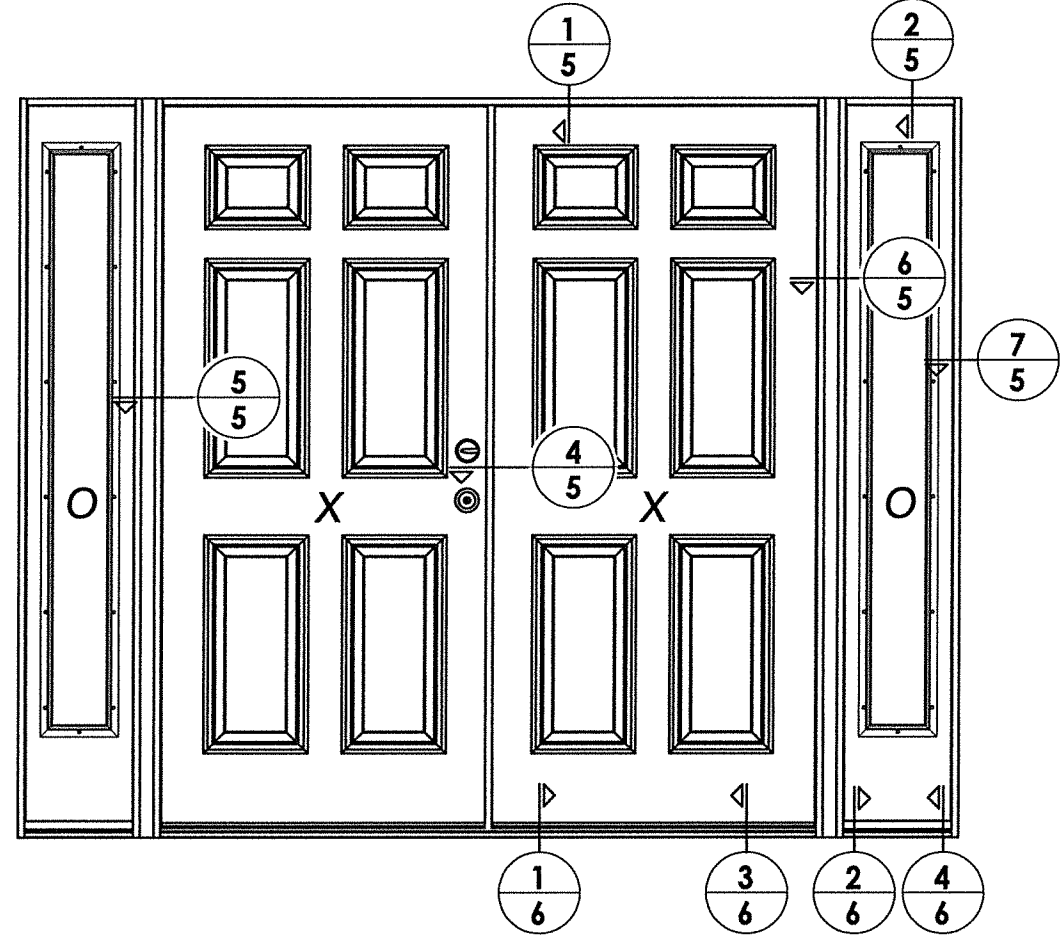
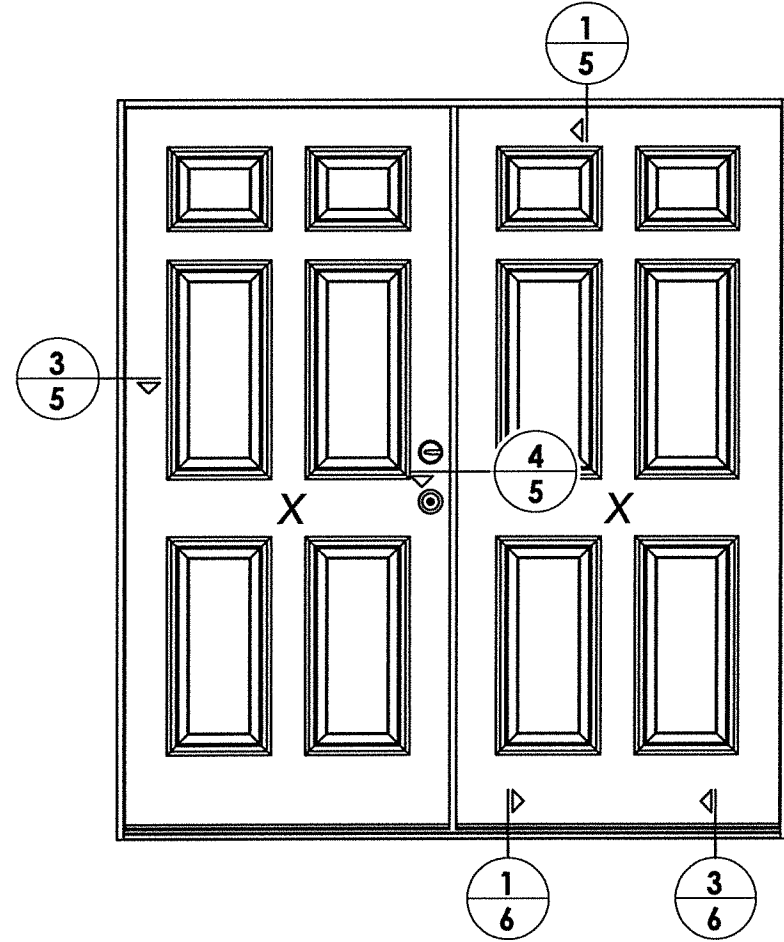


Documents Prepared By: Lyndon F. Schmidt, P.E.  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SURE ROCK FIBERGLASS DOORS  
PART OR ASSEMBLY: 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-4820  
SHEET 3 OF 8



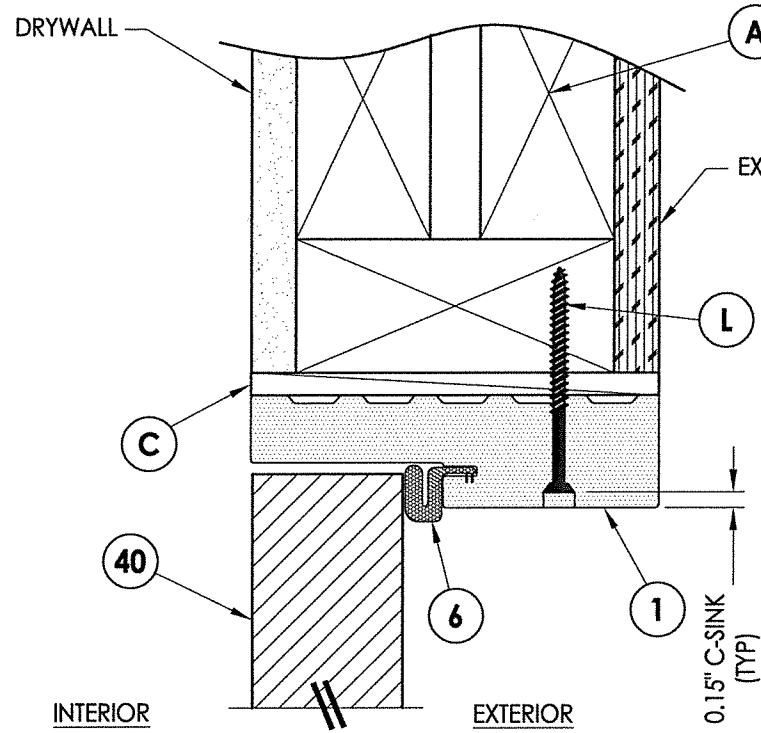
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL, 33595  
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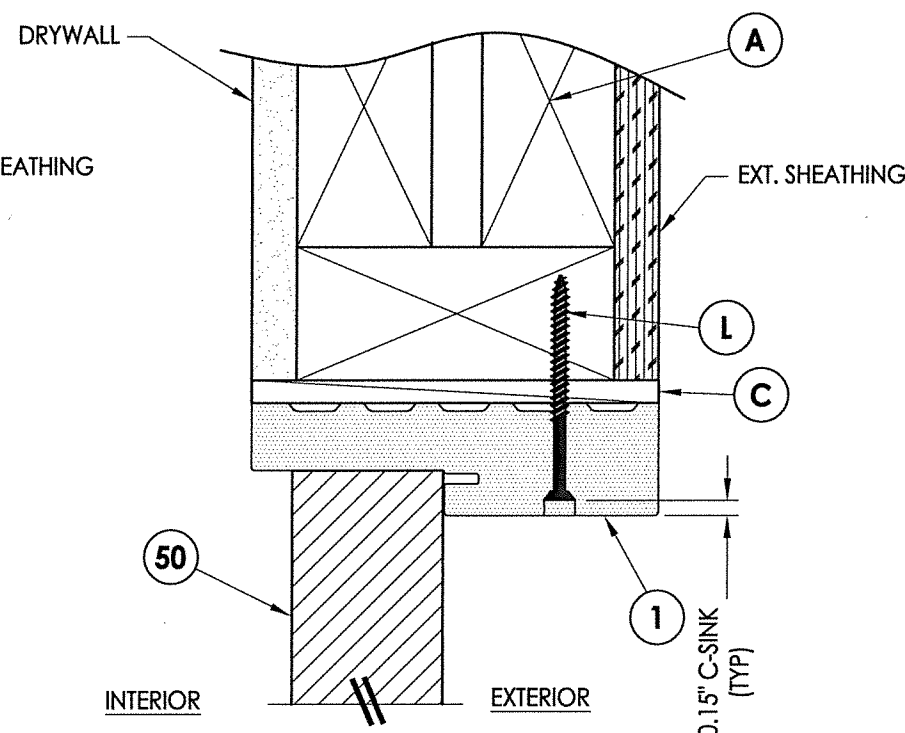
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		SURE ROCK FIBERGLASS DOORS	
PART OR ASSEMBLY:		ELEVATIONS	
NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	BY
1	7/09/20	LFS	
REVISIONS			
DATE: 1/09/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4820			
SHEET 4 OF 8			

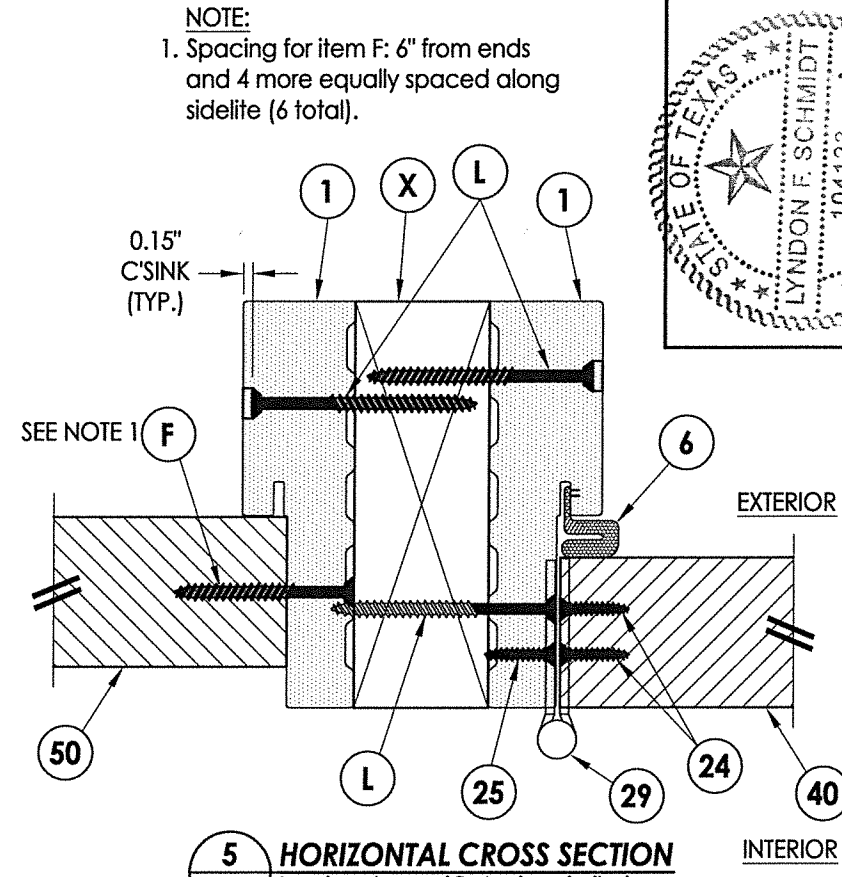
R:\Clients\HM Sure Rock PERMANENT\B - Texas Dept of Ins\DR-835 - 6'8 Fiberglass Non-Impact Door - Opaque\C - Drawings\TX-4818-20.dwg, 5.3



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

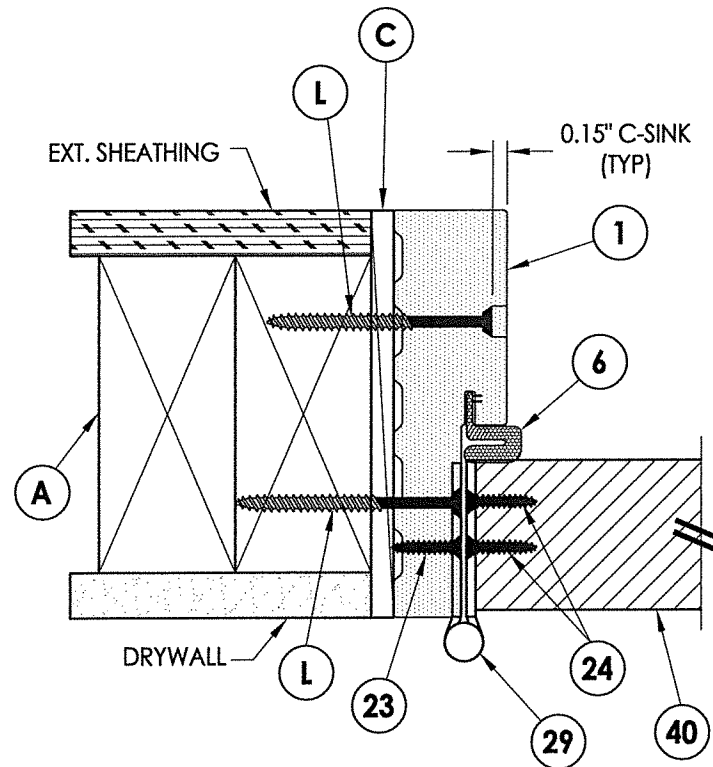
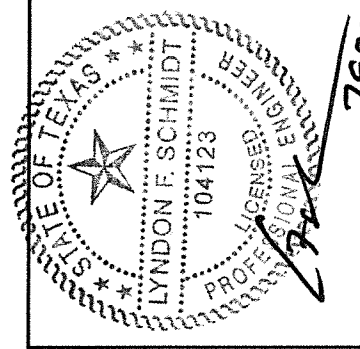


**2** VERTICAL CROSS SECTION  
**5** Inswing shown (Outswing similar)

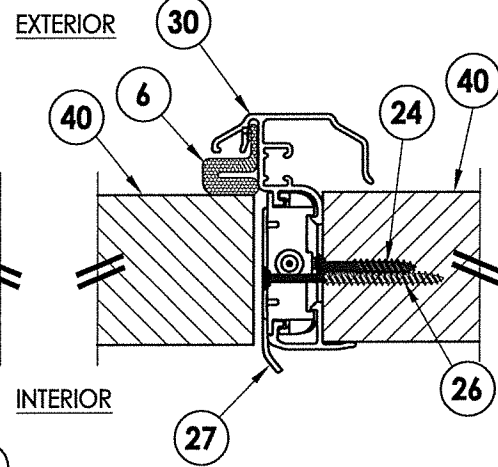


**5** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)  
Shown w/ 2X Reinforcement  
(1X Reinforcement Similar)

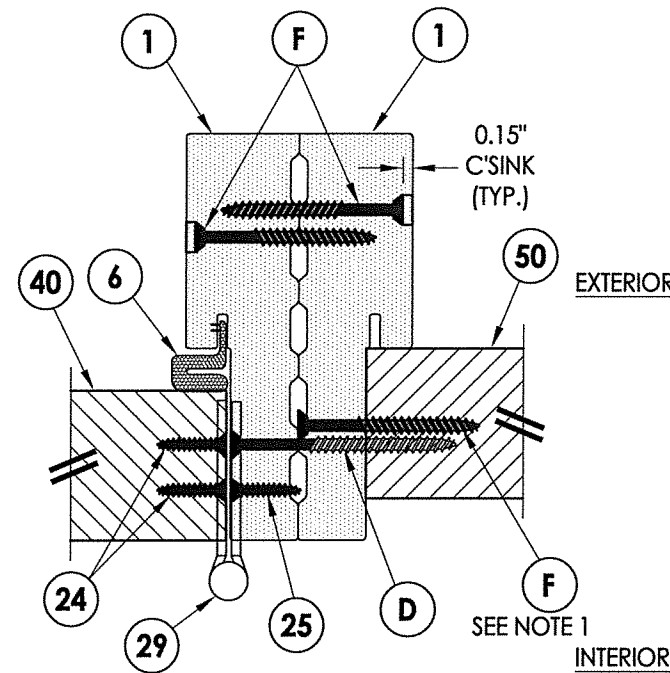
NOTE:  
1. Spacing for item F: 6" from ends  
and 4 more equally spaced along  
sidelite (6 total).



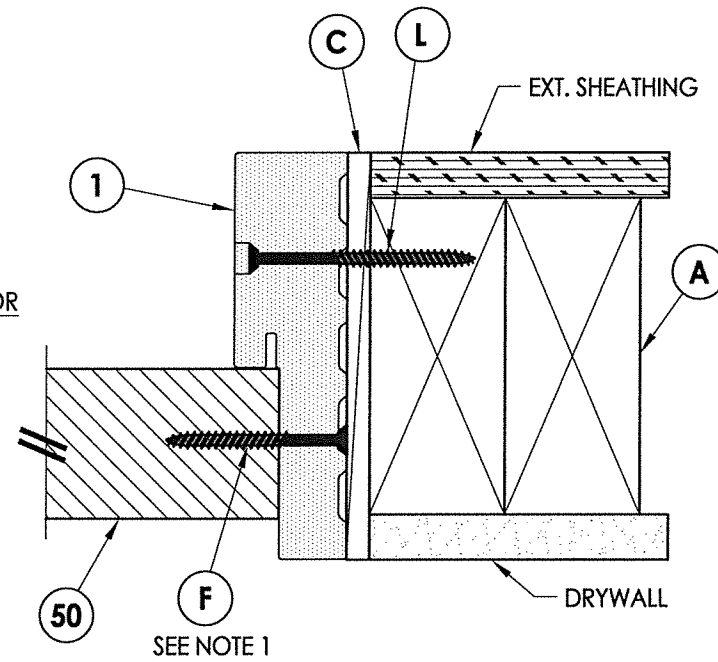
**3** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)



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



**6** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)  
Shown w/ No Reinforcement



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

Documents Prepared By: Lyndon F. Schmidt, P.E.  
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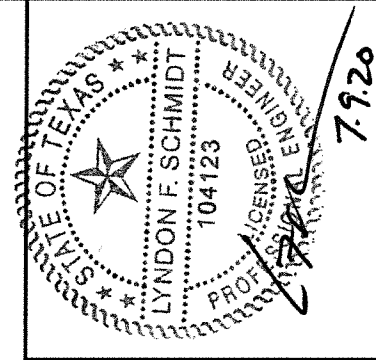
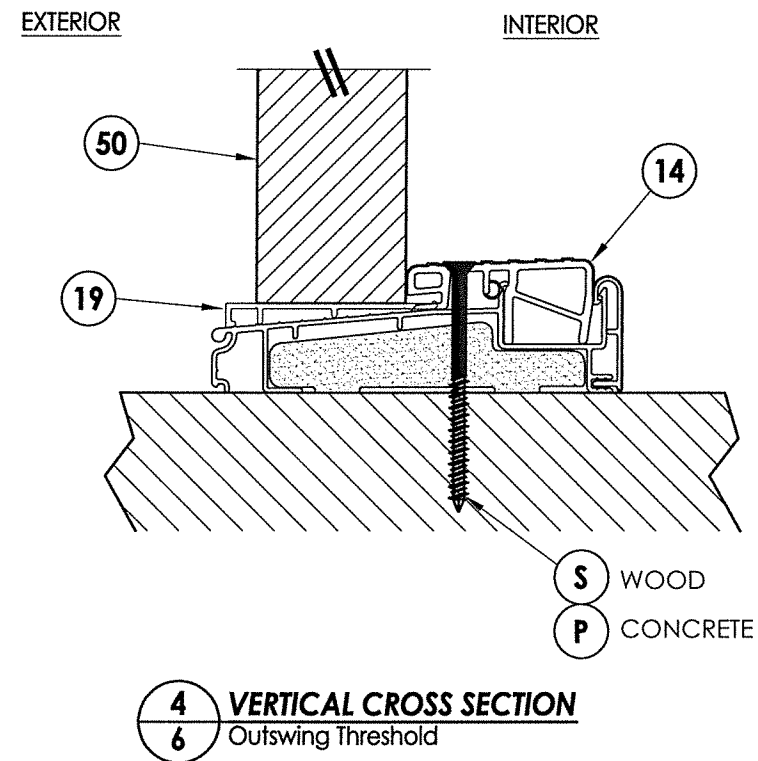
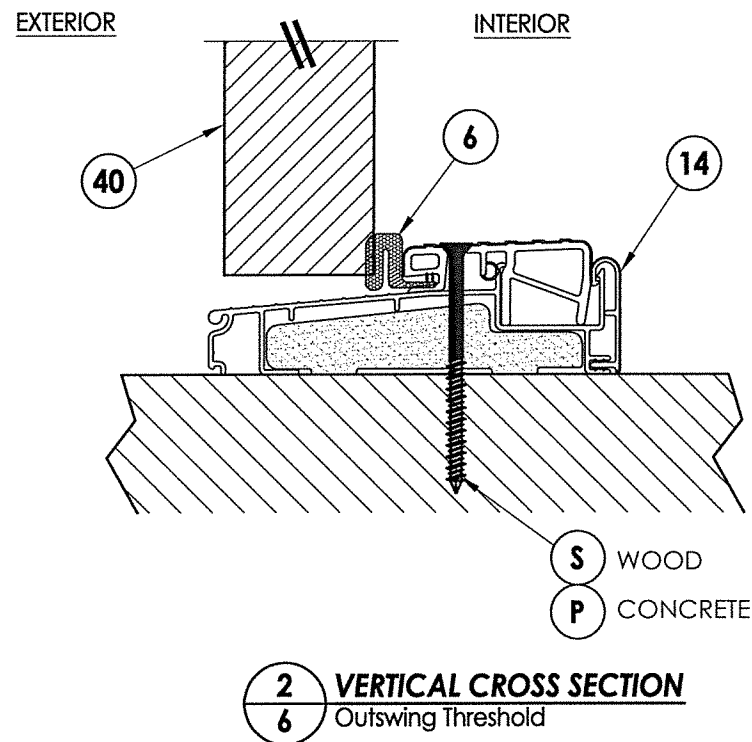
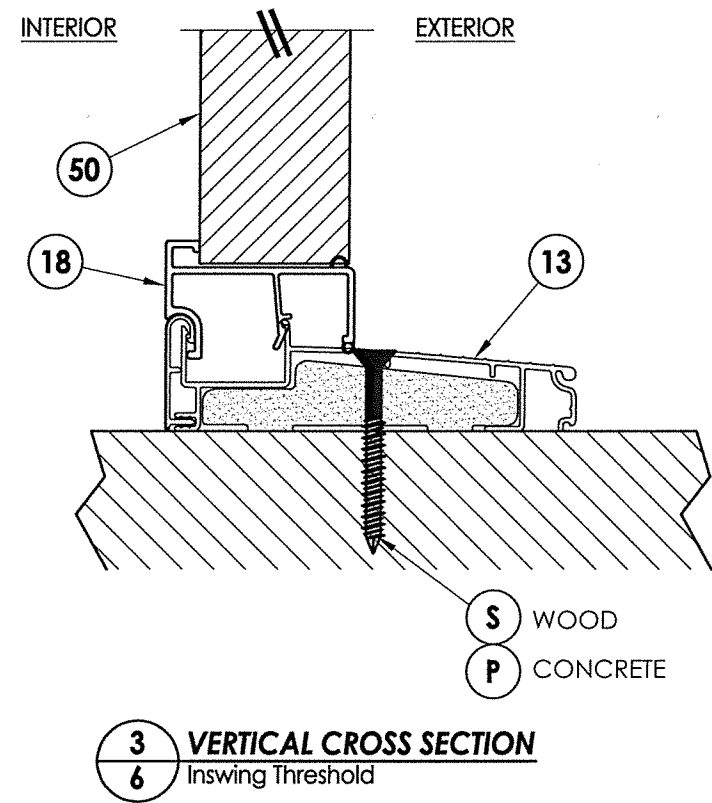
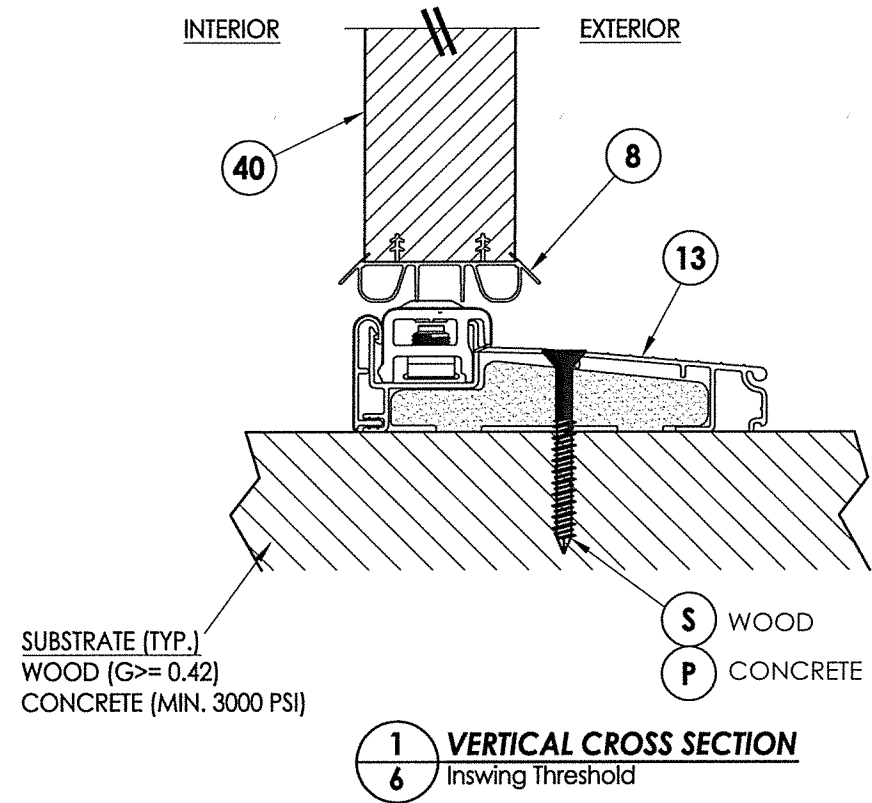
RW BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL, 33595  
Phone No.: 813.659.9197

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

PRODUCT: SURE ROCK FIBERGLASS DOORS  
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS

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

DATE: 1/09/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4820  
SHEET 5 of 8

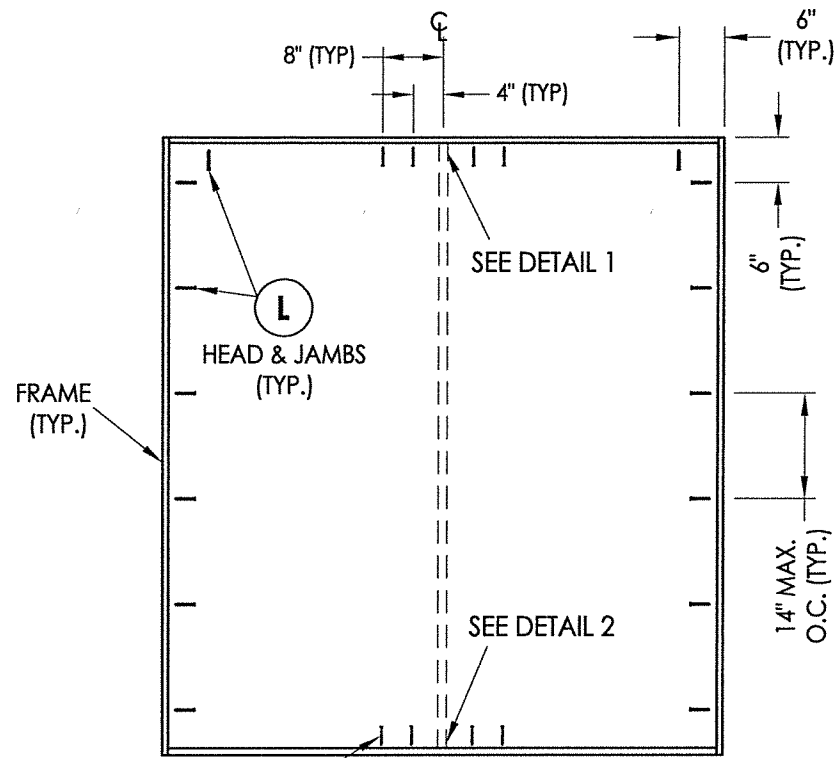


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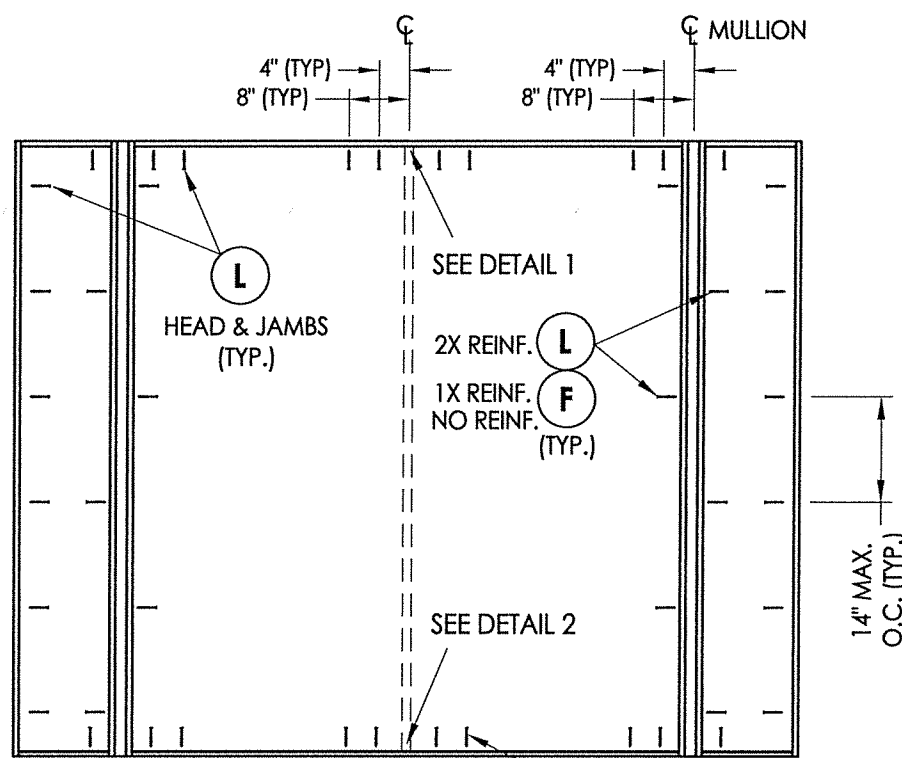
PRODUCT: SURE ROCK FIBERGLASS DOORS	
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
NO.	DATE
1	7/09/20
UPDATE TO 2018 IBC/IRC CODE	
LFS	BY
REVISIONS	
DATE: 1/09/17	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4820	
SHEET 6 OF 8	



WOOD (S)  
CONCRETE (P)  
SILL (TYP.)

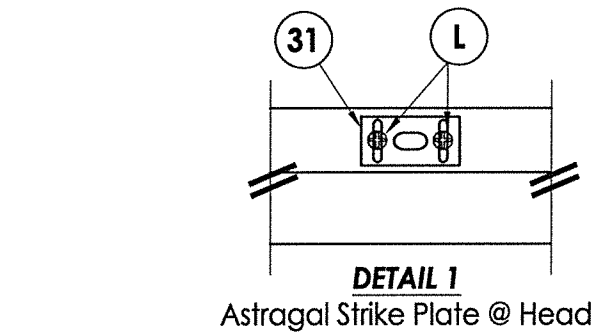
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**FRAME ANCHORING**

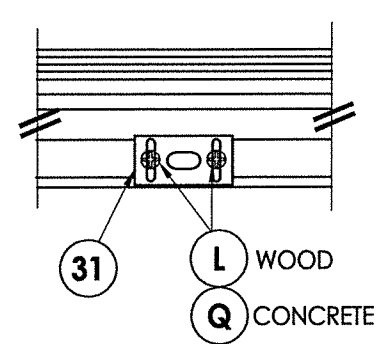


WOOD (S)  
CONCRETE (P)  
SILL (TYP.)

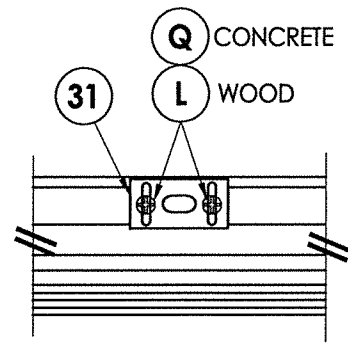
OXXO



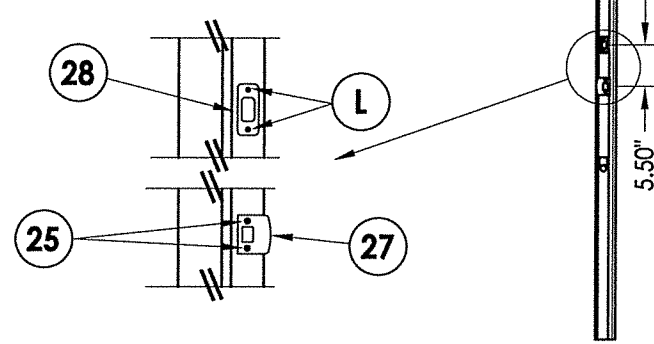
**DETAIL 1**  
Astragal Strike Plate @ Head



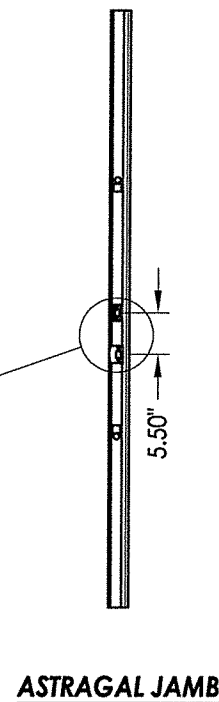
**DETAIL 2**  
Astragal Strike Plate @ Sill Inswing



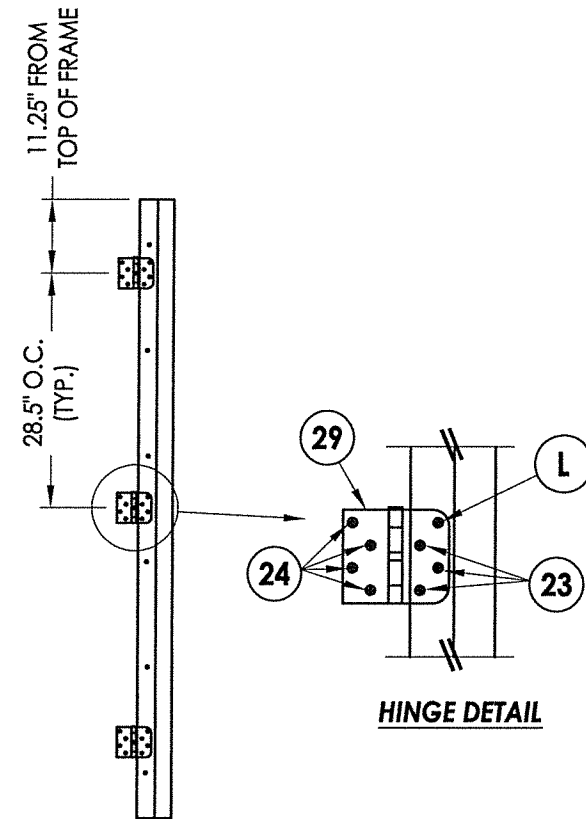
**DETAIL 2**  
Astragal Strike Plate @ Sill Outswing



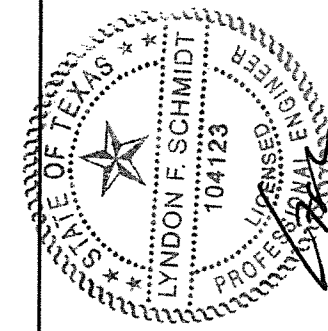
**LATCH AND DEADBOLT STRIKE PLATE DETAILS**



**ASTRAGAL JAMB**



**HINGE JAMB**



7.9.20

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

DATE:	1/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4820
SHEET	7 OF 8



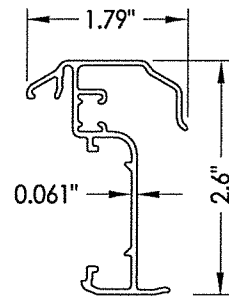
**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#10 X 2" PFH WOOD SCREW	STEEL
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
Q	3/16" PFH CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
S	#10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
X	1X OR 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
30	ENDURA ULTIMATE HURRICANE ASTRAGAL	ALUM
31	ASTRAGAL SHOOTBOLT STRIKE PLATE	STEEL
40	DOOR PANEL	-

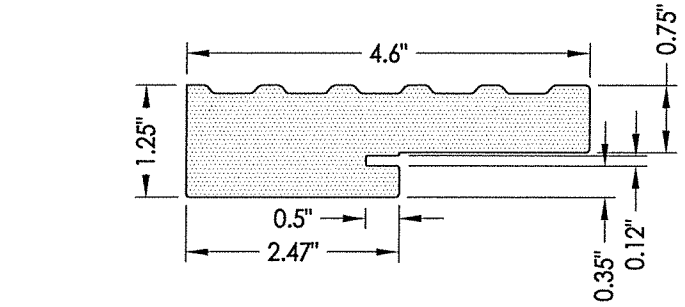
**CONCRETE ANCHOR NOTES:**

- 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:

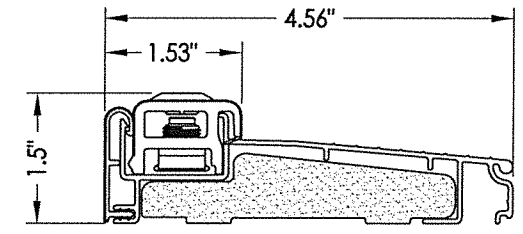
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	1"	4"



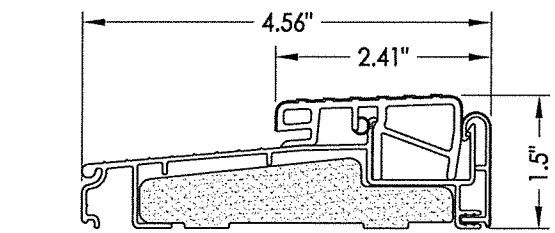
**30 ULTIMATE HURRICANE ASTRAGAL**  
ENDURA



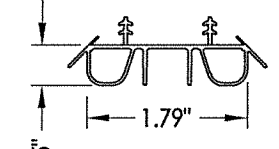
**1 FRAME**  
SURE JAMB



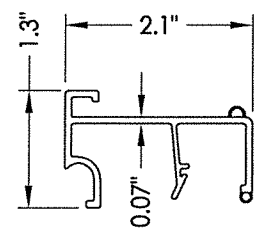
**13 INSWING THRESHOLD**  
ENDURA (Z-SERIES)



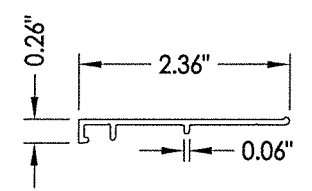
**14 OUTSWING THRESHOLD**  
ENDURA (Z-SERIES)



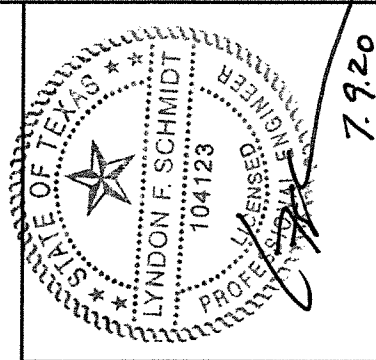
**8 SWEEP**



**18 INSWING SIDELITE SPACER**



**19 OUTSWING SIDELITE SPACER**



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TEXAS P.E. #104123

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	SURE ROCK FIBERGLASS DOORS
PART OR ASSEMBLY:	BILL OF MATERIALS & COMPONENTS
DATE:	1/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4820
SHEET	8 OF 8