

**COASTAL PERFORMANCE™**  
by Sunrise Windows, LTD.

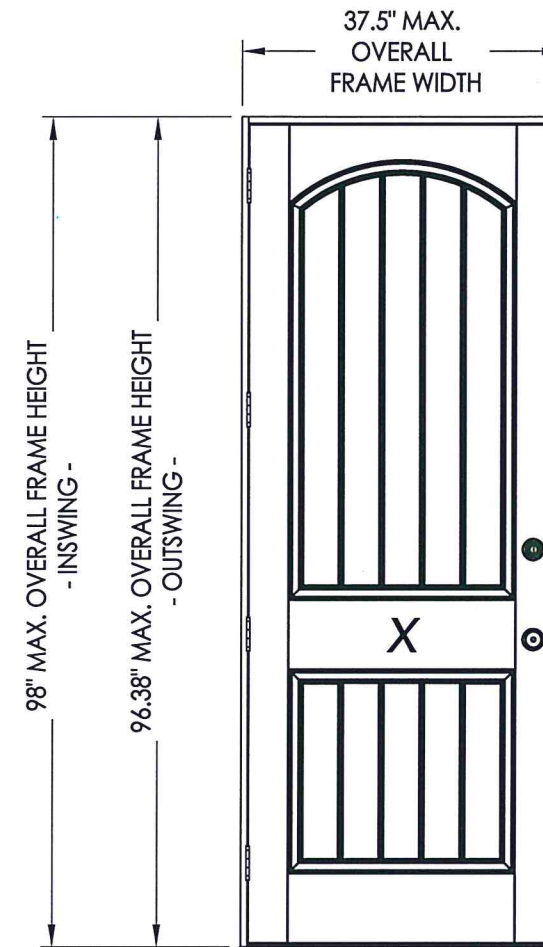
**Tru-Grain Composit  
OPAQUE FIBERGLASS DOOR  
IN SWING/OUT SWING  
"IMPACT"**

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

The Fiberglass Door & Sidelites described herein comply with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) 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. This product has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. The opaque doors meet missile level "D" as defined in ASTM E 1996.
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.

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1	Typical elevations, design pressures & general notes
2	Door panel details
3	Horizontal & Vertical Cross Sections (2X Stud)
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5	Horizontal & Vertical Cross Sections (Direct to Masonry)
6	Vertical Cross Sections (Thresholds)
7	Frame anchoring - (X)
8	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.5" x 98.0"	+65.0	-65.0	+70.0	-70.0

NOTE: See Sheet 2 for hardware design pressure limitations.

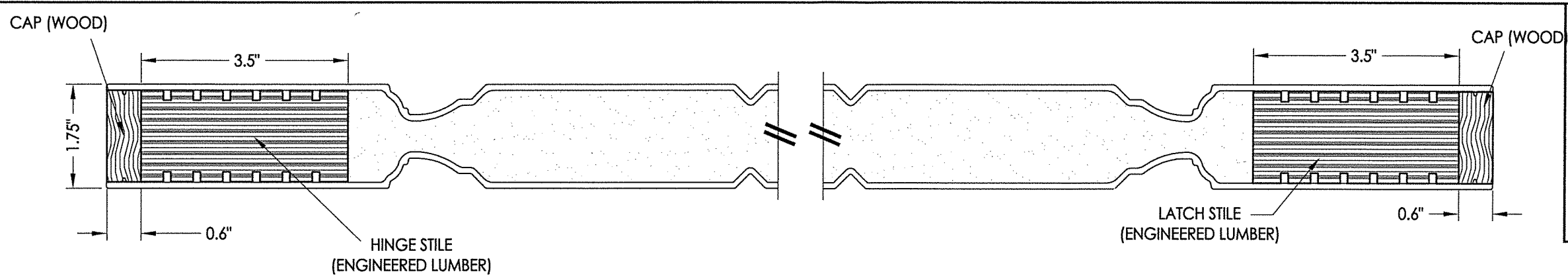


Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197

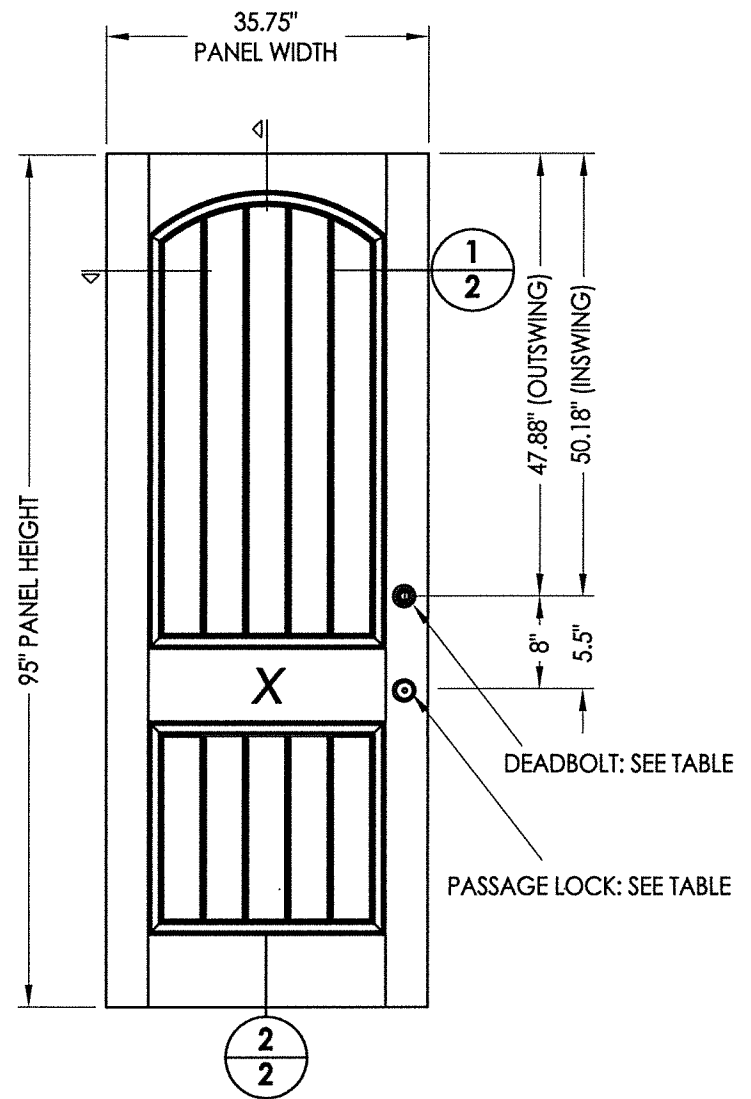
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SUNRISE FIBERGLASS DOOR	
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
NO.	DATE
REVISIONS	
DATE:	3/28/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4802
SHEET	1 OF 8



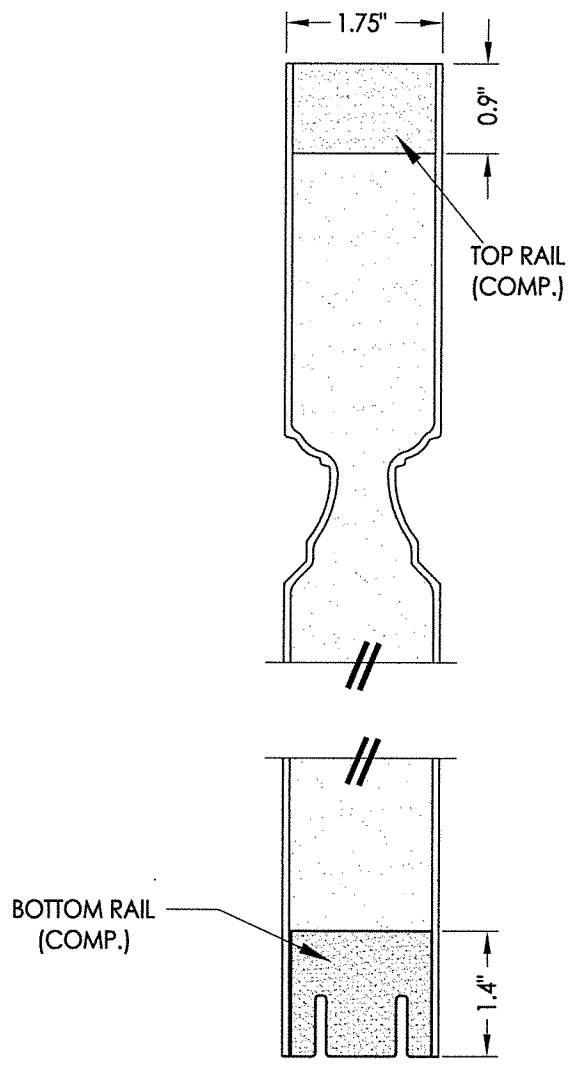
Documents Prepared By: Lyndon F. Schmidt, P.E.  
 TEXAS P.E. #104123  
 R.W. BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Valrico FL, 33595  
 Phone No.: 813.659.9197  
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**1**  
**2** HORIZONTAL CROSS SECTION



**40** DOOR PANEL  
Taylor Door  
w/ Mastergrain Fiberglass skins

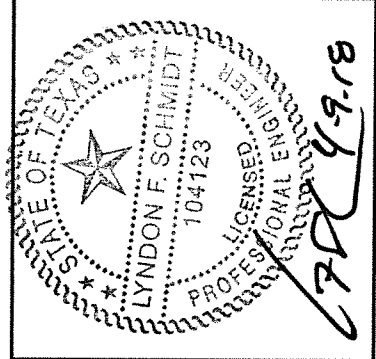
HARDWARE TABLE		
MANUFACTURER	MODEL	MAX. DESIGN PRESSURE
KWIKSET	KNOB:	KWIKSET SIGNATURE SERIES
	DEADBOLT:	KWIKSET SIGNATURE SERIES (980)
SCHLAGE	KNOB/LEVER:	"F" SERIES
	DEADBOLT:	B60/62



**2**  
**2** VERTICAL CROSS SECTION

FIBERGLASS DOOR SKIN: MIN. 0.090" THK.)  
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)

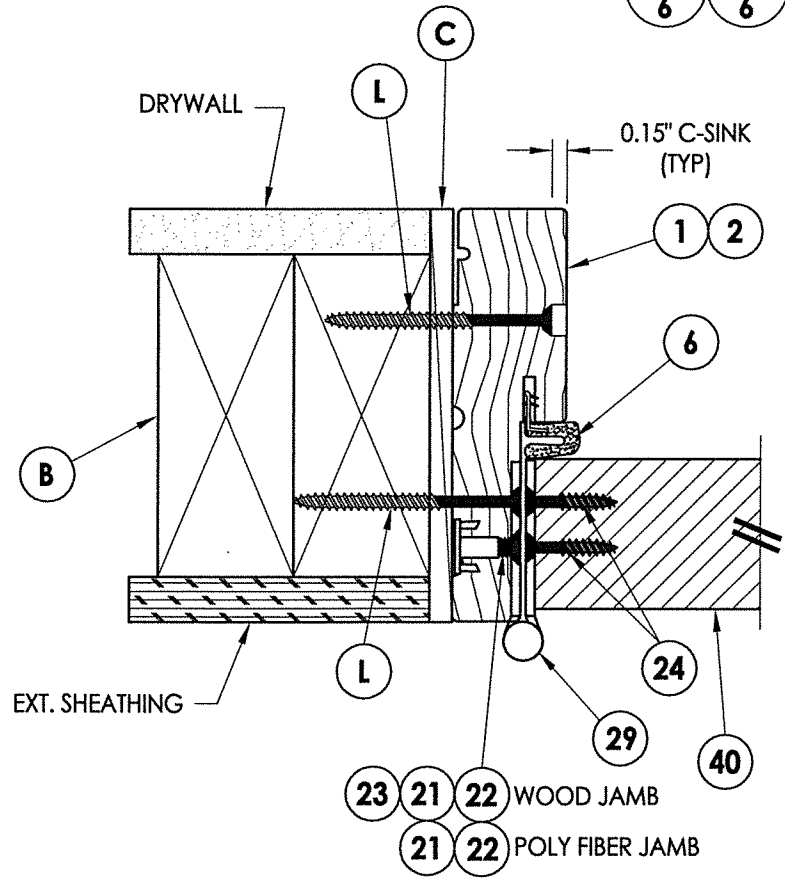
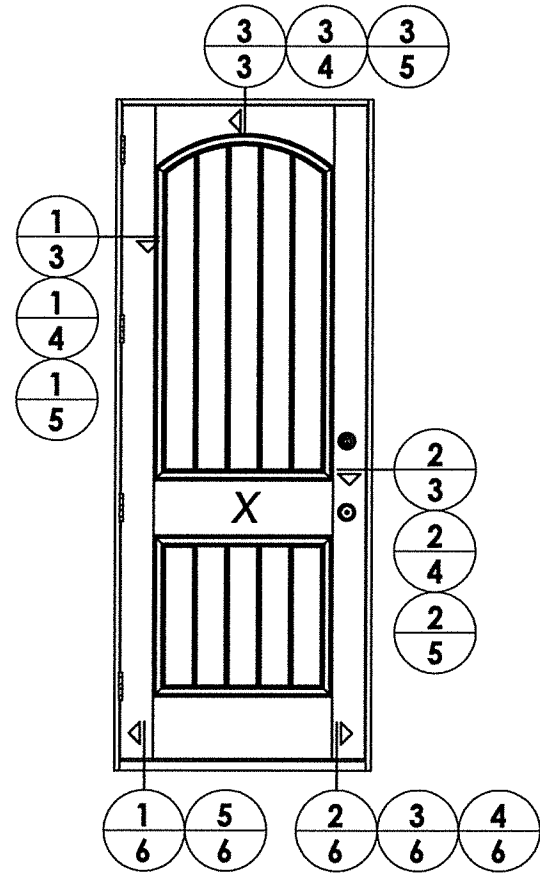
PRODUCT:	SUNRISE FIBERGLASS DOOR
PART OR ASSEMBLY:	DOOR PANEL DETAILS
DATE:	3/28/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4802
SHEET	2 OF 8



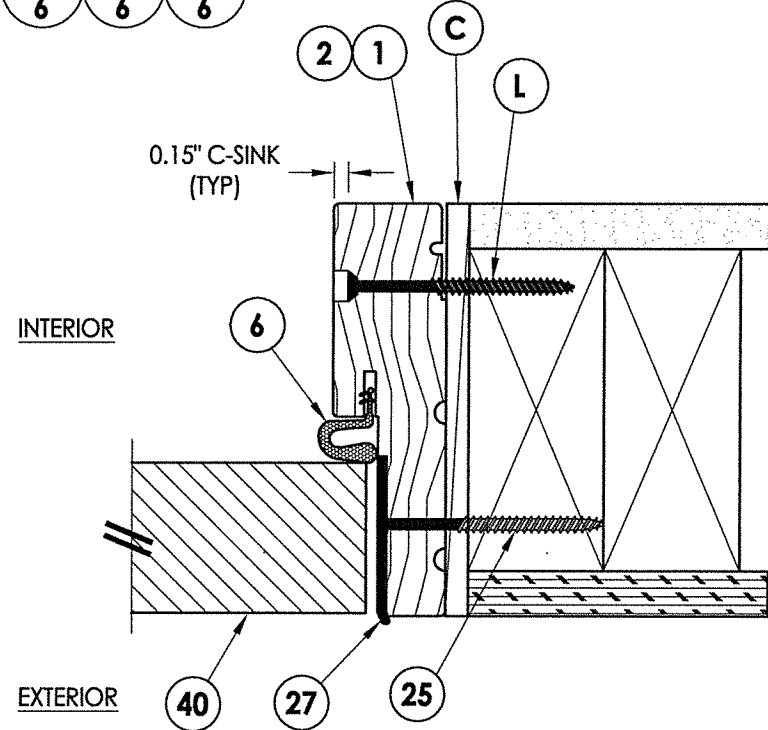
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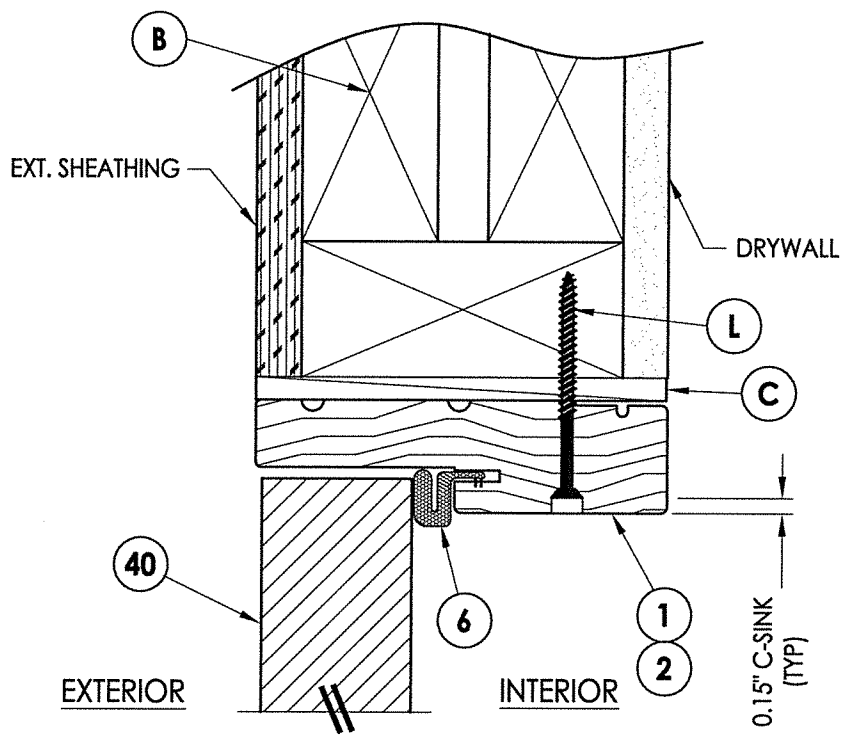
CERTIFICATE OF REGISTRATION # F-11852



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

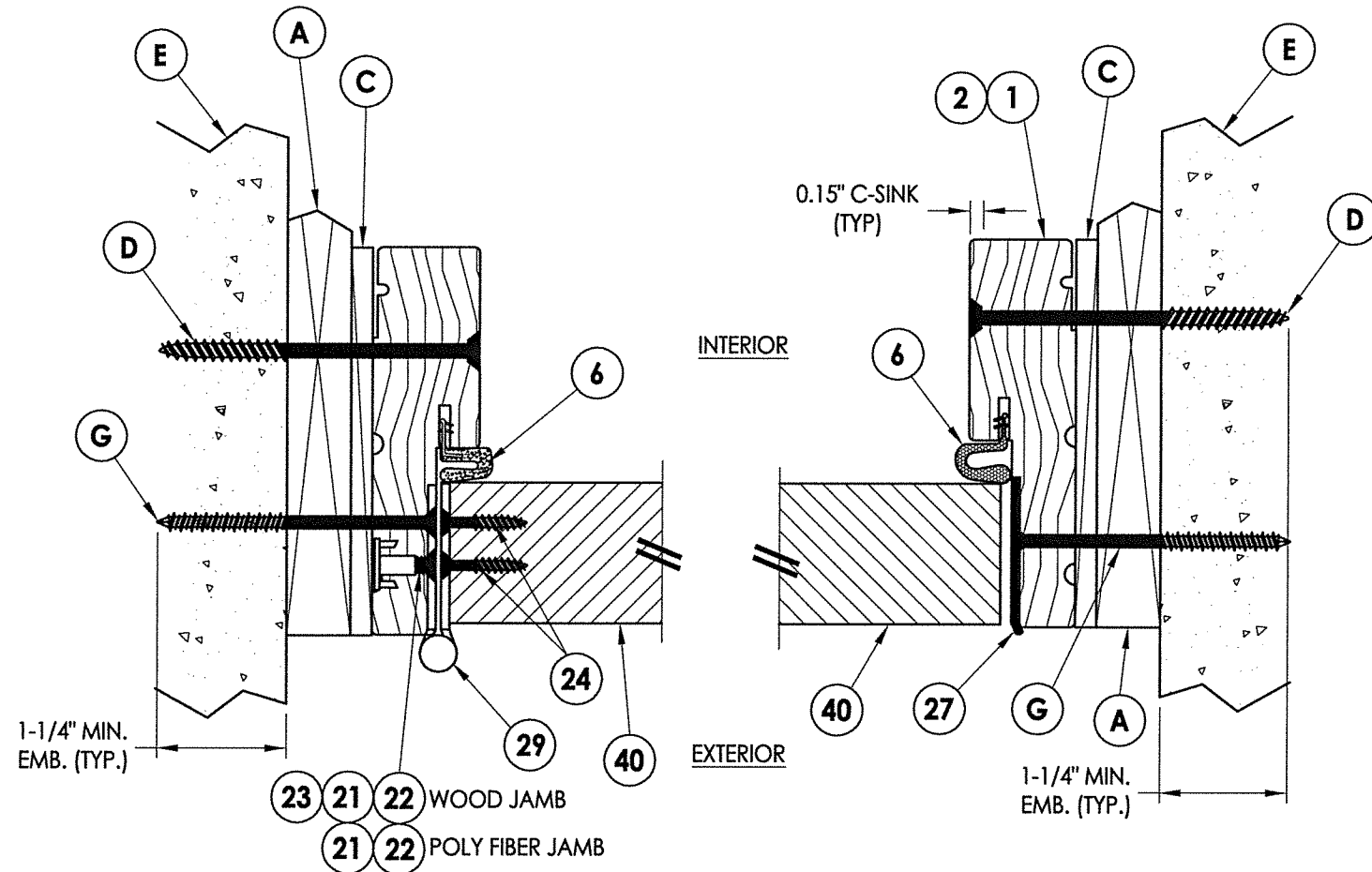


**2** HORIZONTAL CROSS SECTION  
**3** Outswing shown (Inswing similar)



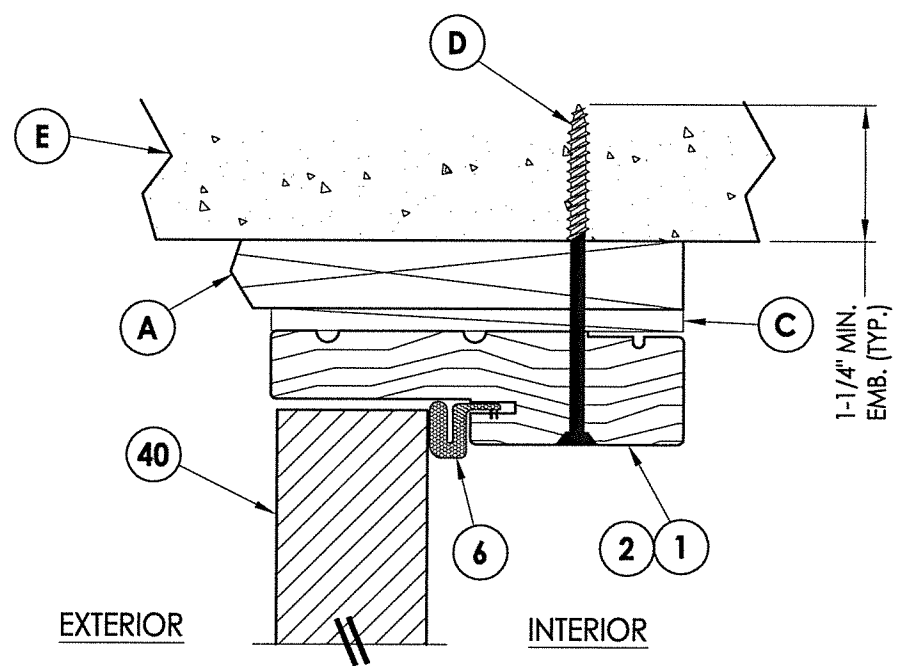
**3** VERTICAL CROSS SECTION  
**3** Outswing shown (Inswing similar)

PRODUCT: SUNRISE FIBERGLASS DOOR	
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X FRAME)	
NO.	DATE
BY	REVISIONS
DATE: 3/28/18	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4802	
SHEET 3 OF 8	

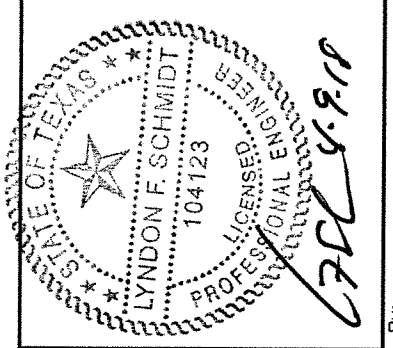


**1 HORIZONTAL CROSS SECTION**  
 4 Shown w/ 1X sub-buck  
 Outswing shown (Inswing similar)

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



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

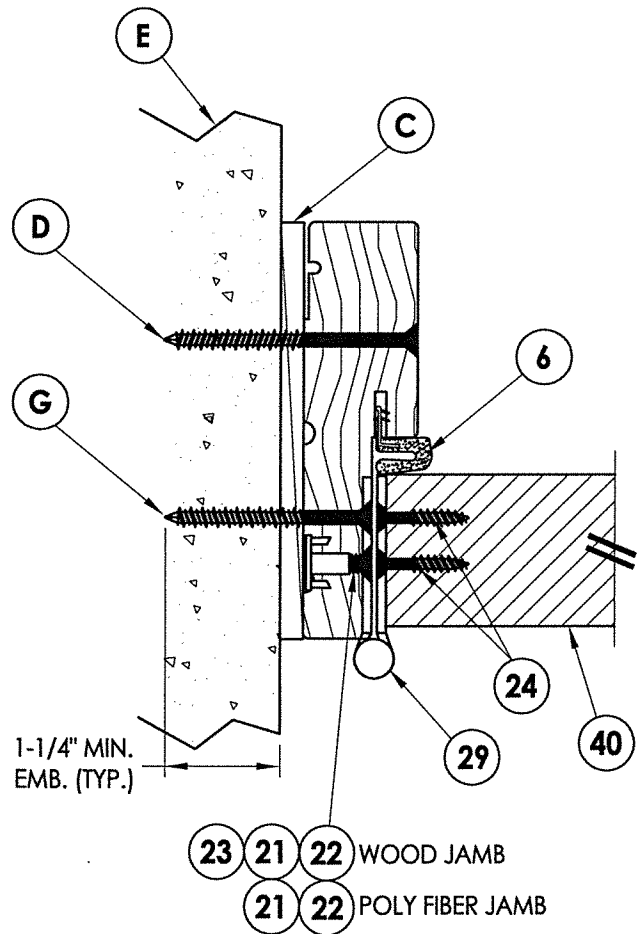


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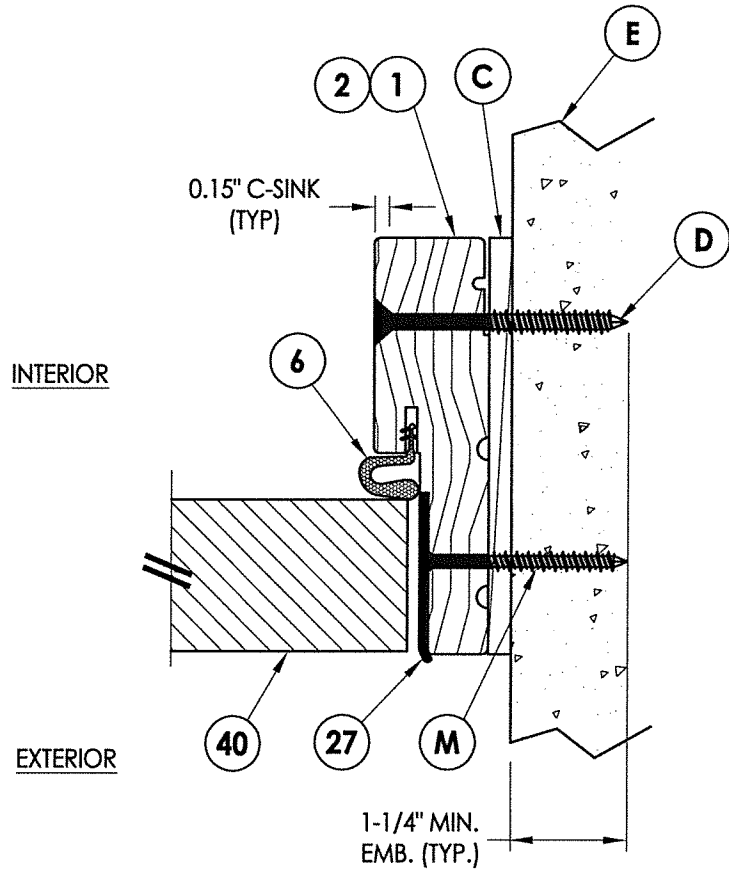
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 PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)

NO.	DATE	BY	REVISIONS

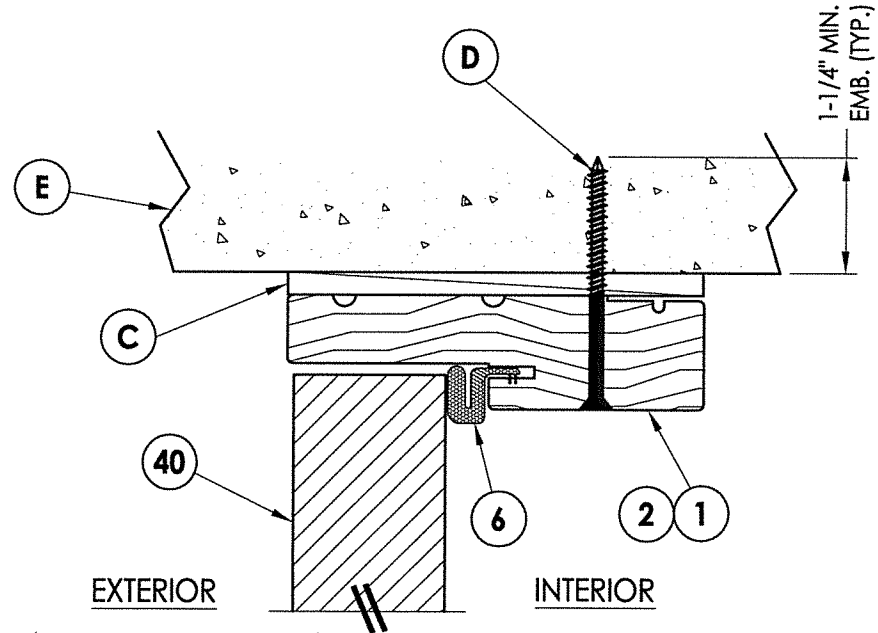
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 CHK. BY: LFS  
 DRAWING NO.: TX-4802  
 SHEET 4 OF 8



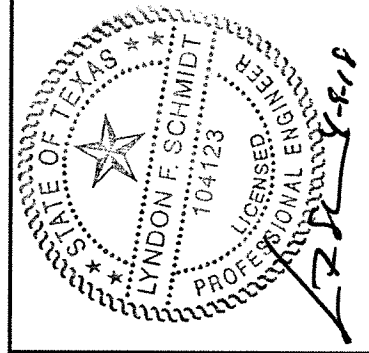
**1 HORIZONTAL CROSS SECTION**  
5 Shown Direct to Masonry  
Outswing shown (Inswing similar)



**2 HORIZONTAL CROSS SECTION**  
5 Shown Direct to Masonry  
Outswing shown (Inswing similar)



**3 VERTICAL CROSS SECTION**  
5 Shown Direct to Masonry  
Outswing shown (Inswing similar)



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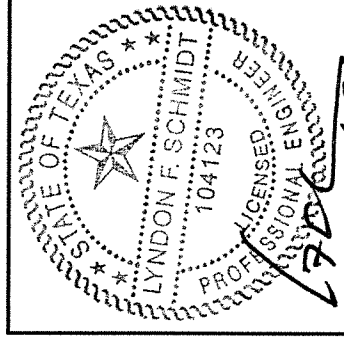
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SUNRISE FIBERGLASS DOOR  
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)

NO.	DATE	BY	REVISIONS

DATE: 3/28/18  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4802  
SHEET 5 OF 8

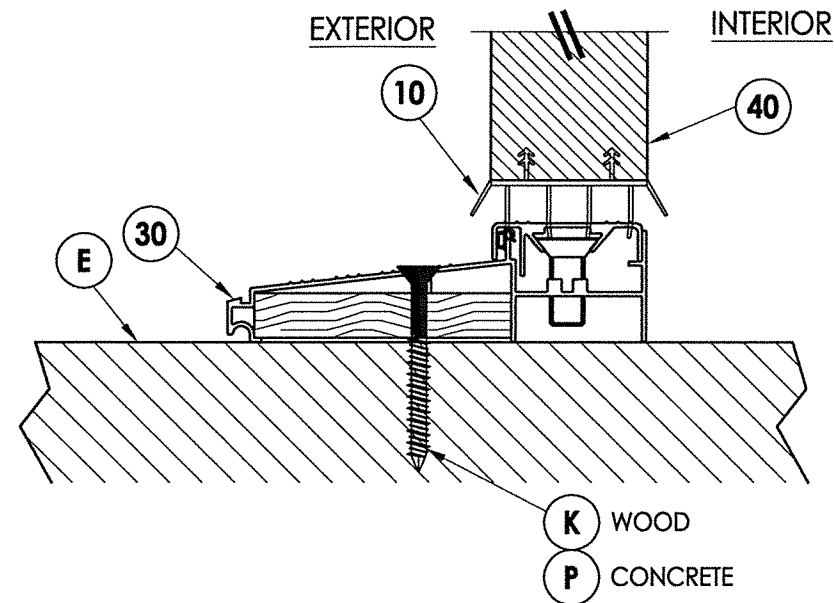
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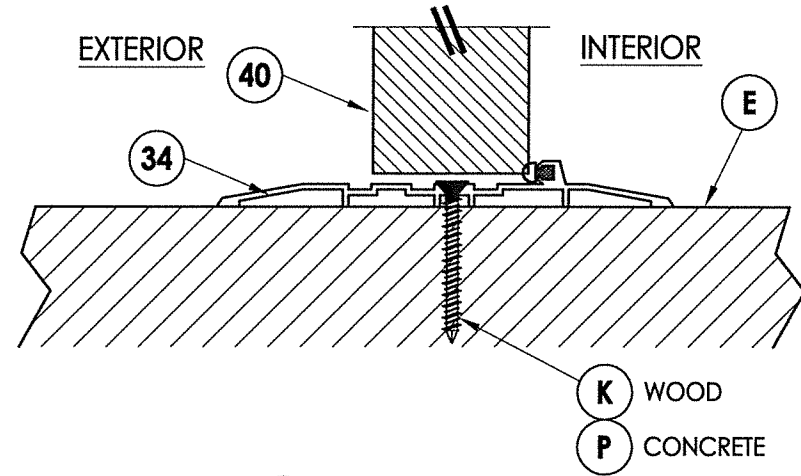
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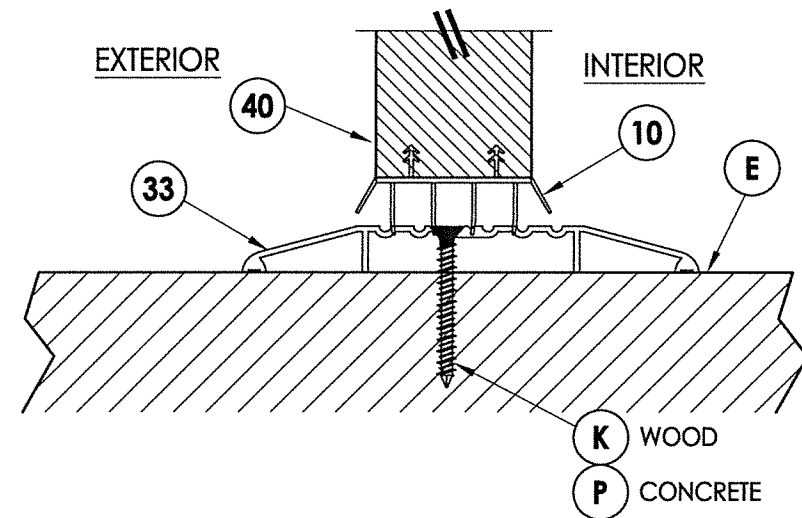
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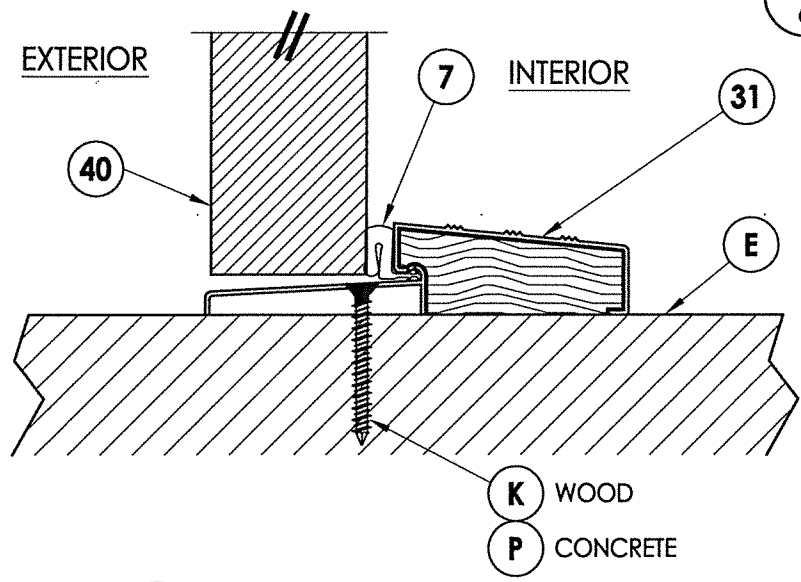
**1** VERTICAL CROSS SECTION  
**6** Inswing configuration



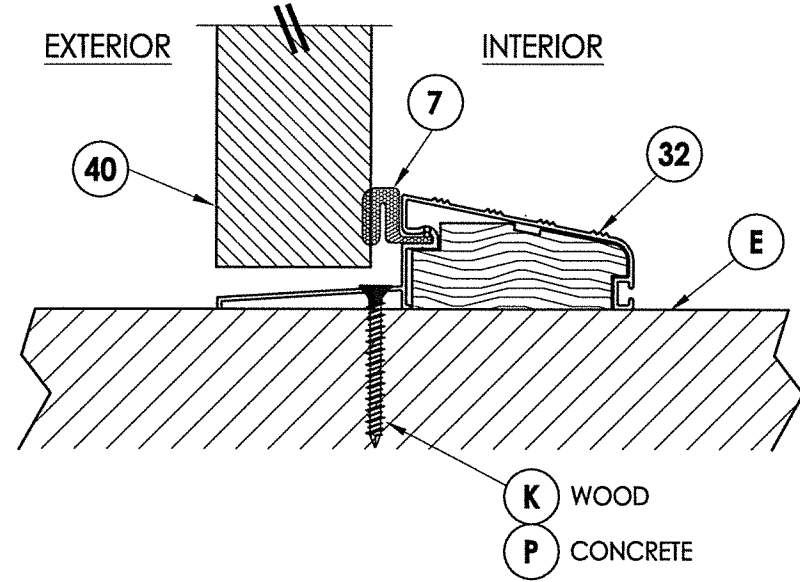
**2** VERTICAL CROSS SECTION  
**6** Outswing configuration



**5** VERTICAL CROSS SECTION  
**6** Inswing configuration

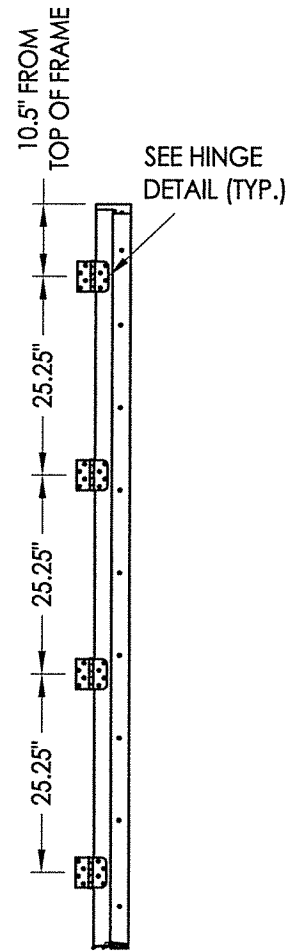


**3** VERTICAL CROSS SECTION  
**6** Outswing configuration

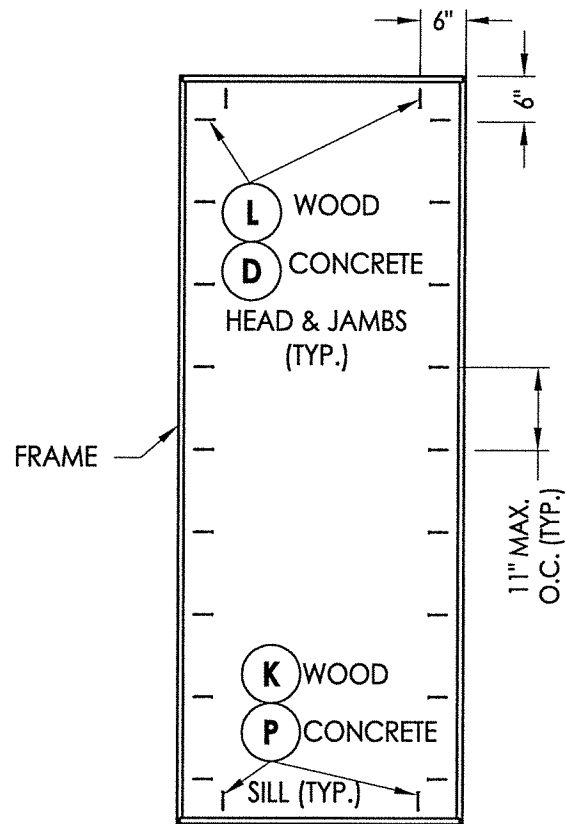


**4** VERTICAL CROSS SECTION  
**6** Outswing configuration

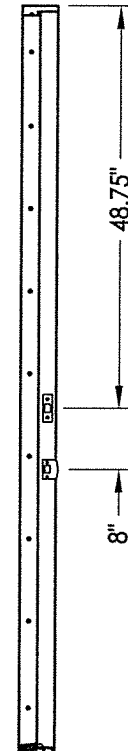
PRODUCT: SUNRISE FIBERGLASS DOOR	
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)	
NO.	DATE
BY	REVISIONS
DATE: 3/28/18	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4802	
SHEET 6 OF 8	



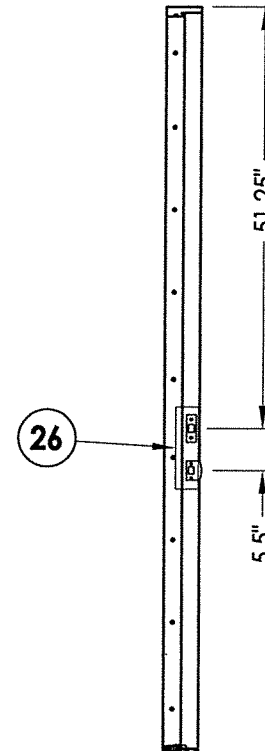
**HINGE JAMB**



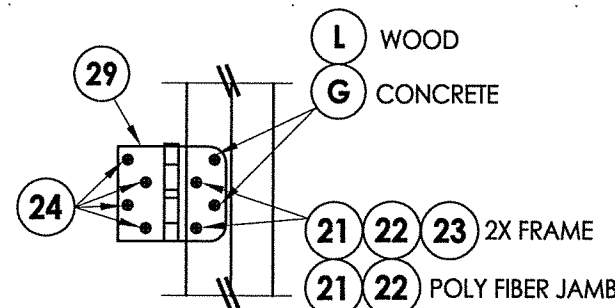
**FRAME ANCHORING**



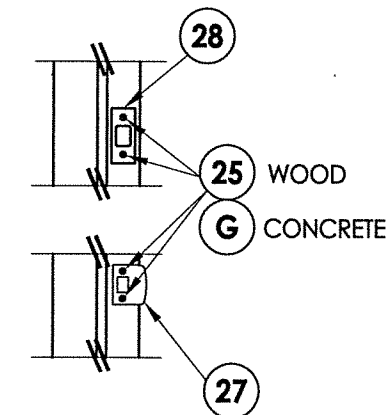
**STRIKE JAMB**  
Outswing



**STRIKE JAMB**  
Inswing



**HINGE DETAIL**



**LATCH AND DEADBOLT DETAIL**

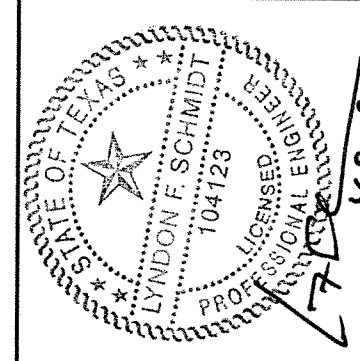
**CONCRETE ANCHOR NOTES:**

- 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"	3"	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.



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: SUNRISE FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING (X)

NO.	DATE	BY	REVISIONS

DATE: 3/28/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4802

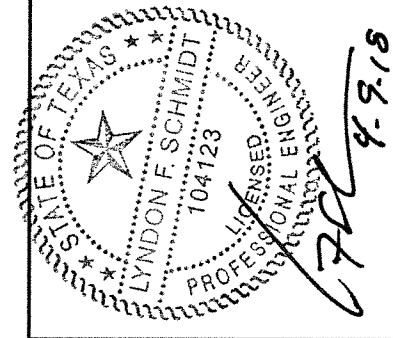
SHEET 7 OF 8

**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X STUD (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH ELCO OR ITW CONCRETE SCREW (1.375" MIN. EMBEDMENT)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	3/16" ITW CONCRETE SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
K	#10 PFH WOOD SCREW (1.5" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
X	2X REINFORCEMENT (SG >= 0.55)	WOOD
1	JAMB (FINGER JOINT PINE w/ VINYL WRAP)	WOOD
2	JAMB (POLY FIBER)	COMP.
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
10	SWEEP	VINYL
21	#10-24 X 5/8" M.S. w/ 1/2" STAFAST INSERT P/N D102413	STEEL
22	#10-24 X 5/8" M.S. w/ 3/8" STAFAST PRONG TEE NUT	STEEL
23	#10 x 3/4" PFH WOOD SCREW	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL

**BILL OF MATERIALS**

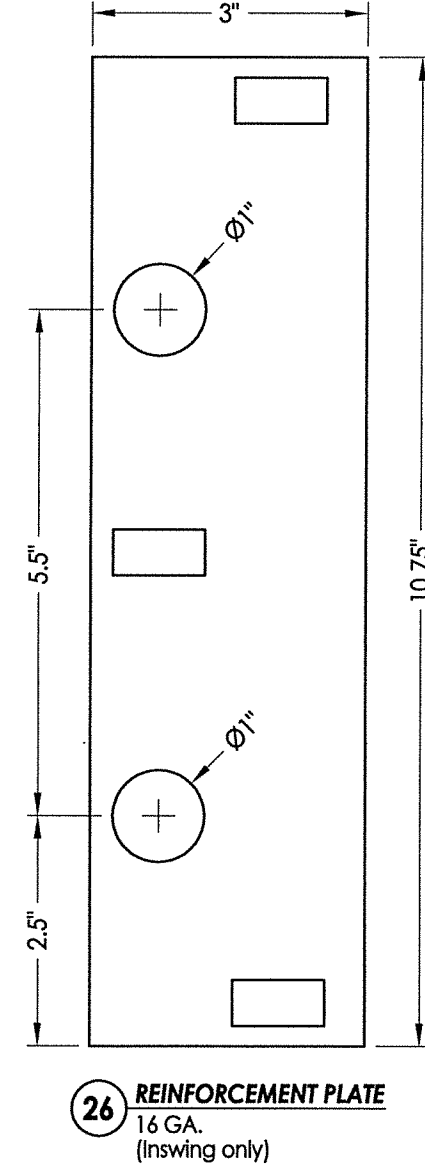
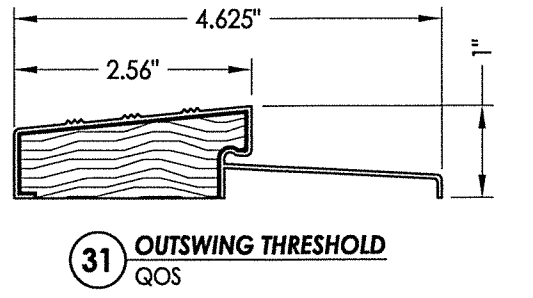
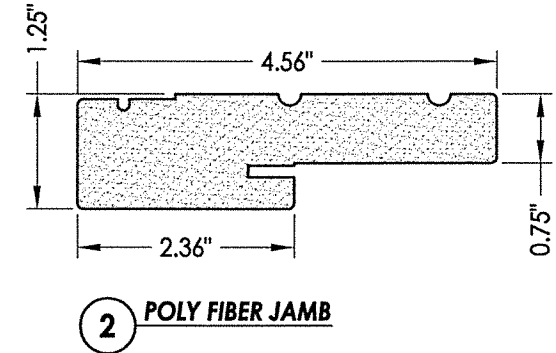
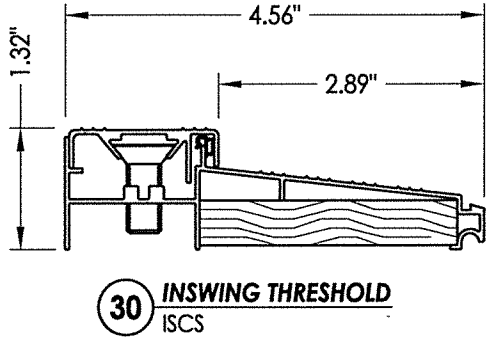
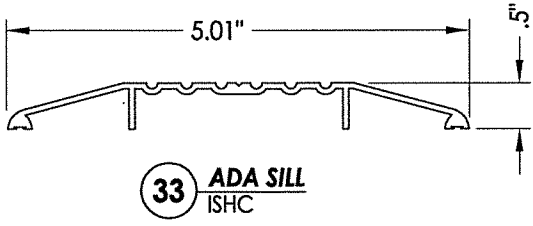
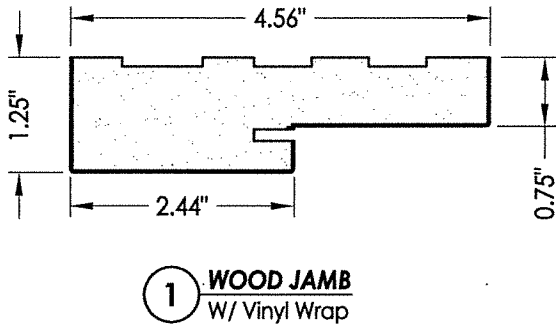
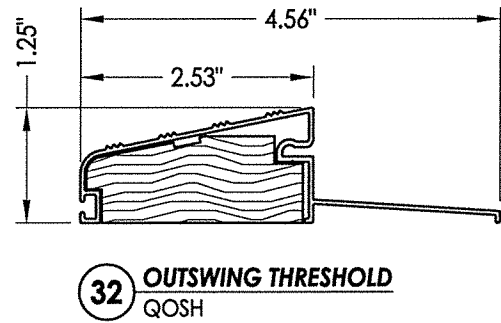
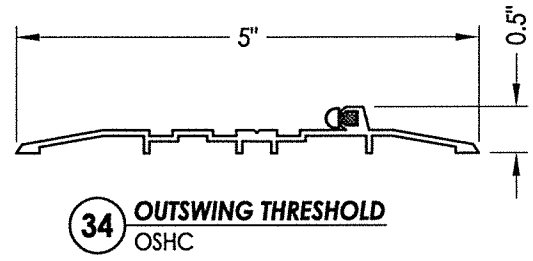
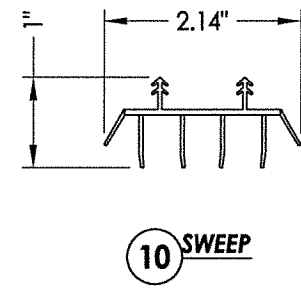
ITEM #	DESCRIPTION	MATERIAL
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
26	REINFORCEMENT PLATE	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
30	INSWING THRESHOLD	ALUM/COMP
31	OUTSWING THRESHOLD	ALUM/COMP
32	OUTSWING THRESHOLD	ALUM/COMP
33	ADA THRESHOLD	ALUM
34	ADA BUMP THRESHOLD	ALUM
40	DOOR PANEL	-



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CERTIFICATE OF REGISTRATION # F-11852



PRODUCT:	SUNRISE FIBERGLASS DOOR	
PART OR ASSEMBLY:	BILL OF MATERIALS AND COMPONENTS	
NO.	DATE	BY
REVISIONS		
DATE:	3/28/18	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4802	
SHEET	8	OF 8