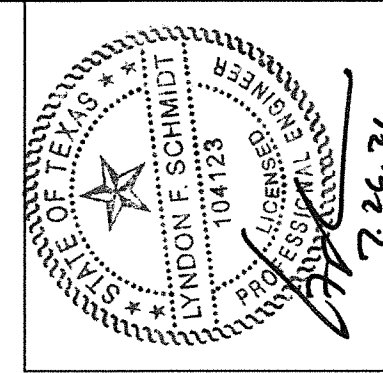


# THERMA-TRU<sup>®</sup> DOORS

Fiber-Classic<sup>®</sup> & Smooth-Star<sup>®</sup>

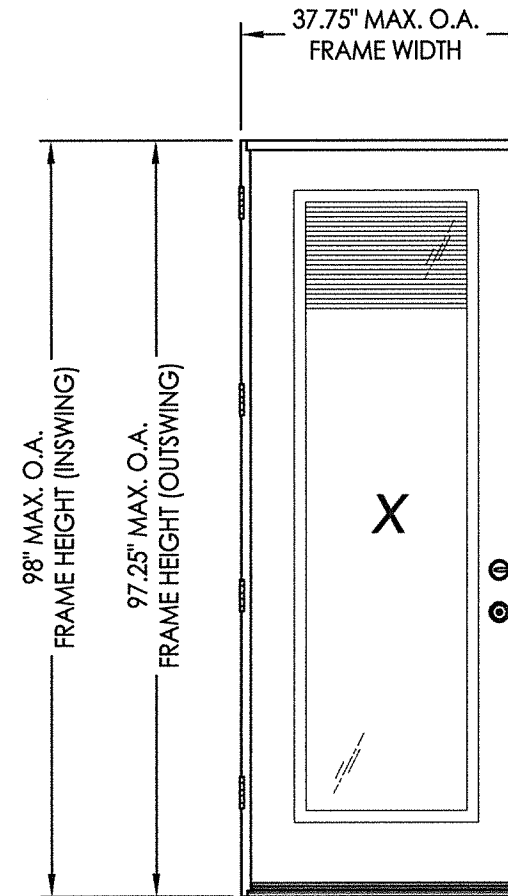


Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

**RW** BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197

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

## WOOD EDGE GLAZED FIBERGLASS SINGLE DOOR w/ BLINDS BETWEEN GLASS INSWING/OUTSWING "IMPACT"



### 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. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. This product meets 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.
5. Fiber-Classic and Smooth-Star Door & Sidelite panels require the use of "J" part numbers. These door panels must be stained or painted within six months of installation.

### TABLE OF CONTENTS

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

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	+40.0	-45.0	+40.0	-45.0

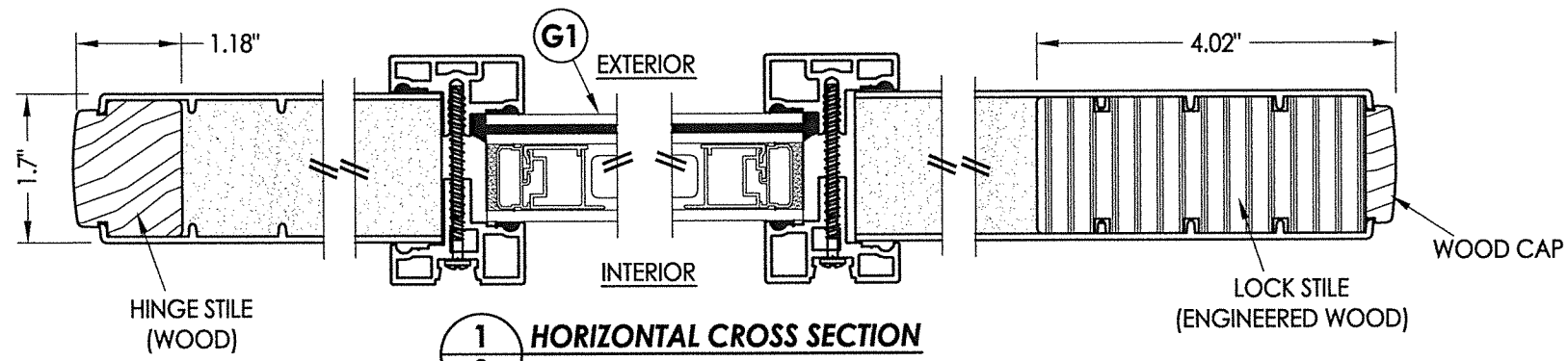
PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

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

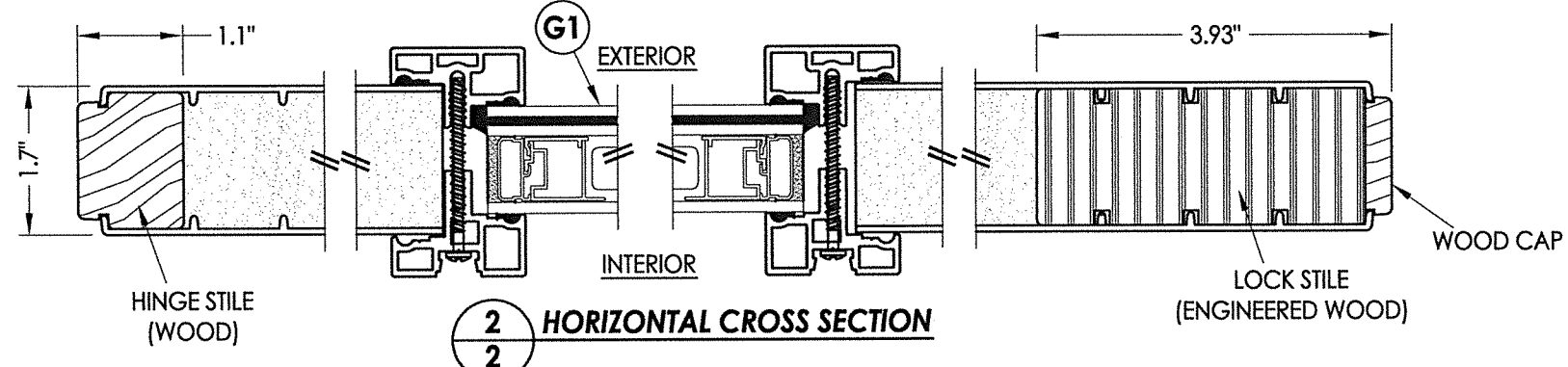
NO.	DATE	BY	REVISIONS

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5221  
SHEET 1 OF 9

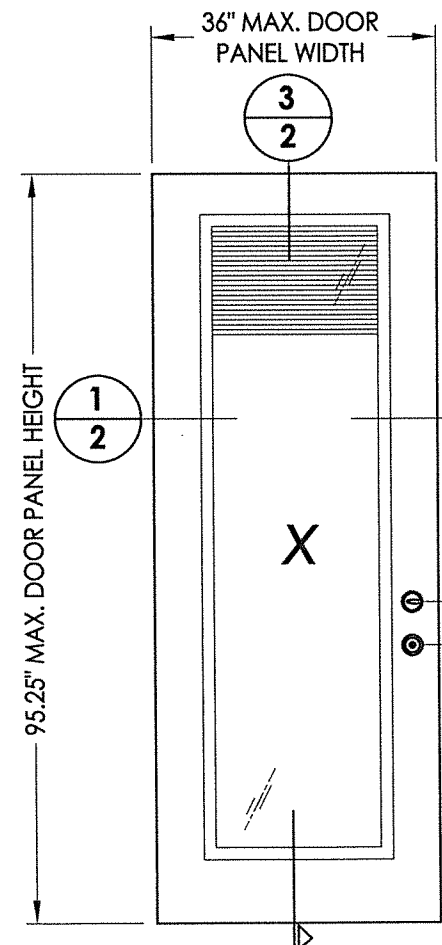
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - XXX ID XXXX- 68 & 8'0 BGG FG Imp FJ Jambs (TX 5218-5223)\C - Drawings\TX-5221-5223.dwg



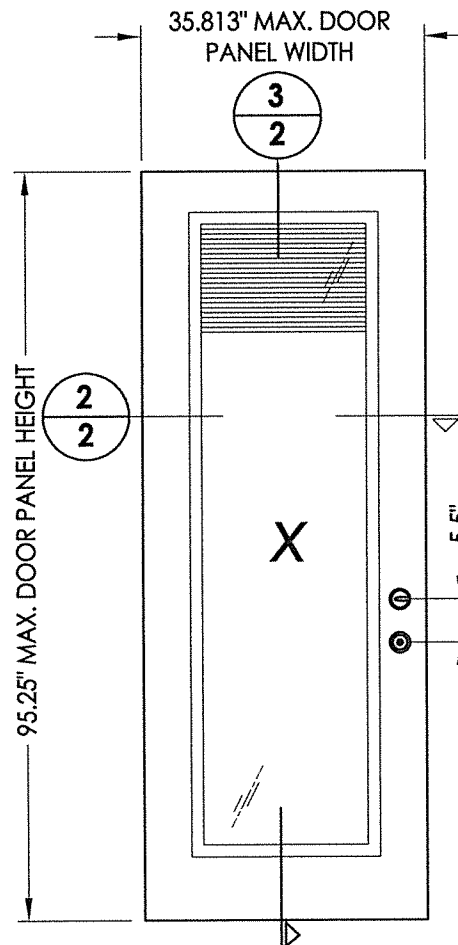
**1**  
**2** HORIZONTAL CROSS SECTION



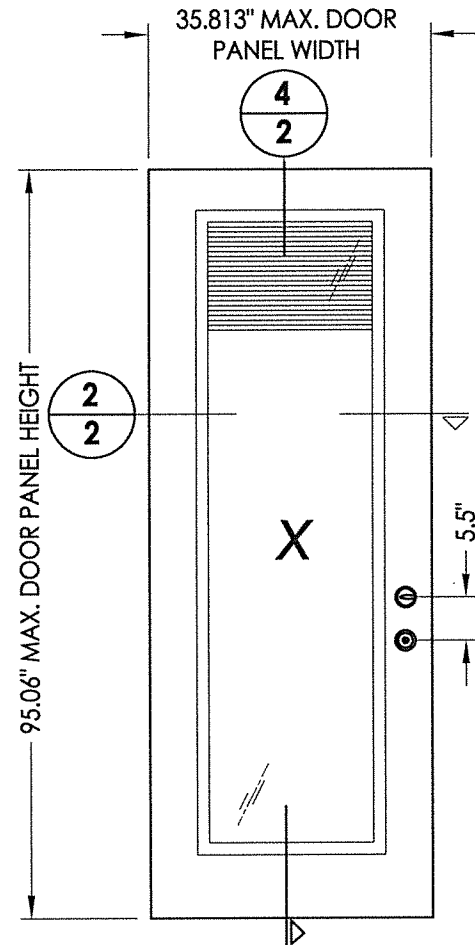
**2**  
**2** HORIZONTAL CROSS SECTION



**40** FIBERGLASS DOOR PANEL  
BOOK DOOR - WOOD EDGE

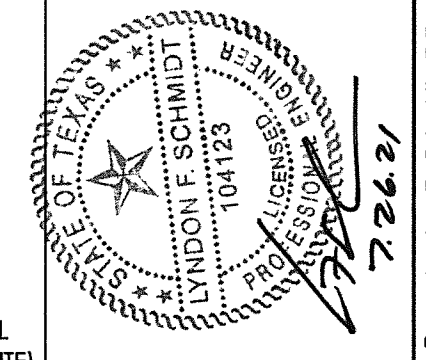


**41** FIBERGLASS DOOR PANEL  
HYBRID DOOR - WOOD EDGE



**42** FIBERGLASS DOOR PANEL  
U1 DOOR - WOOD EDGE

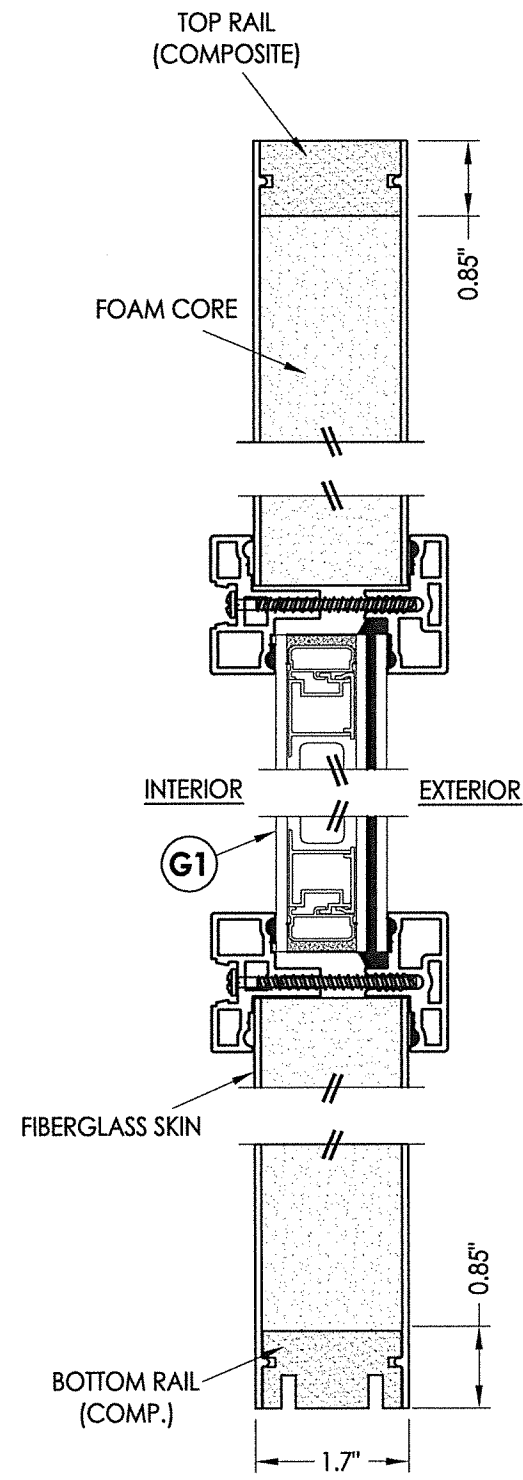
FIBERGLASS SKIN: 0.082\"/>



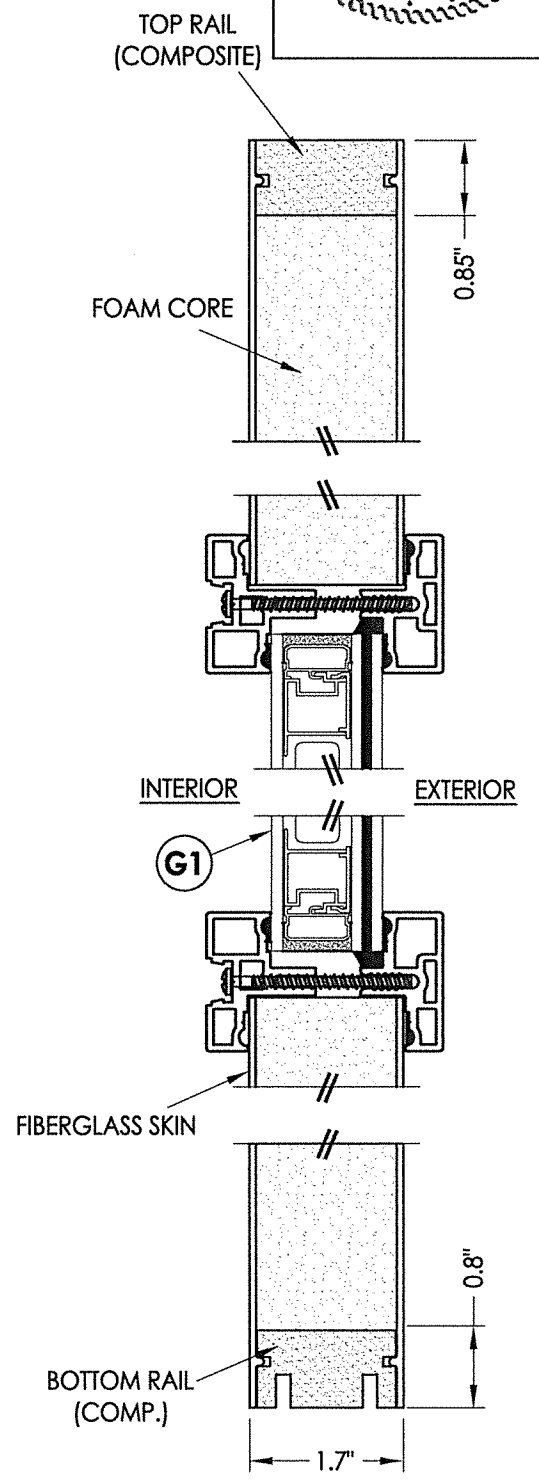
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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**3**  
**2** VERTICAL CROSS SECTION



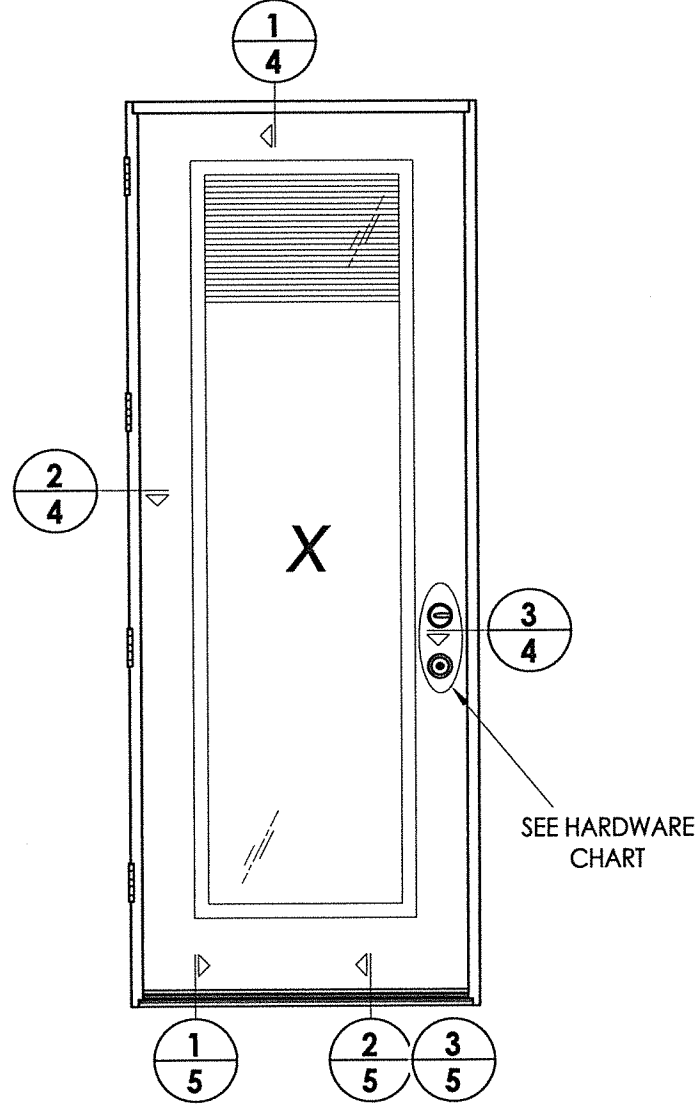
**4**  
**2** VERTICAL CROSS SECTION

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

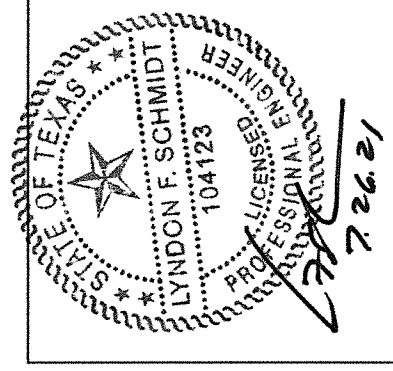
PART OR ASSEMBLY:  
DOOR PANEL DETAILS

NO.	DATE	BY

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5221  
SHEET 2 OF 9



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



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PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:

ELEVATIONS

NO.	DATE	BY

DATE: 7/21/21

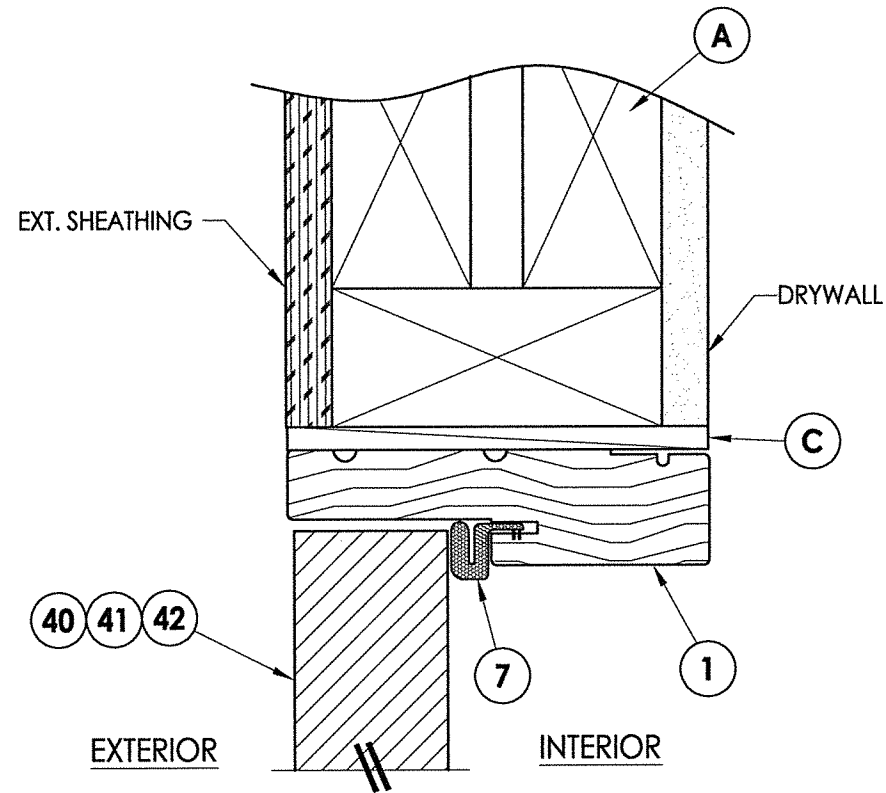
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DWG. BY: RW

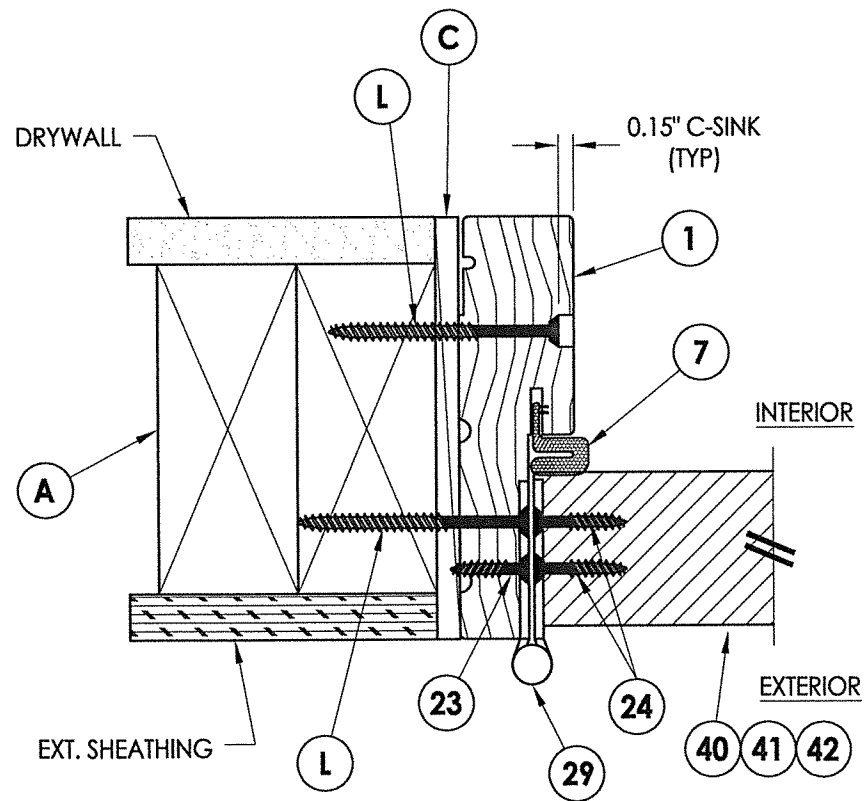
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DRAWING NO.: TX-5221

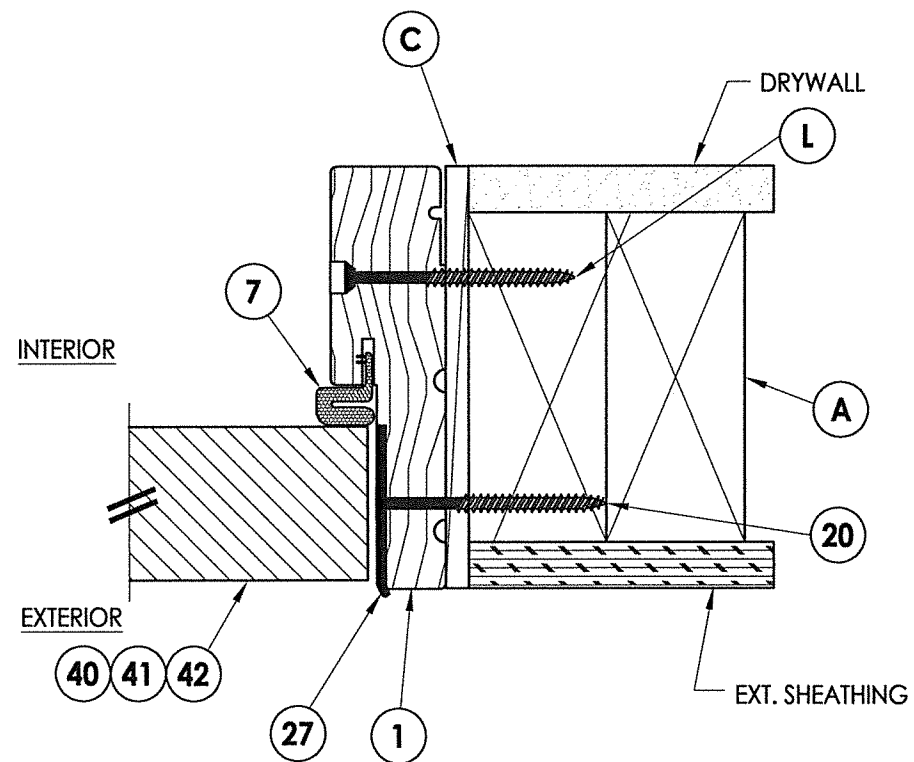
SHEET 3 OF 9



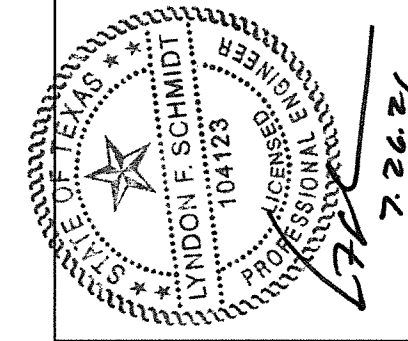
**1 VERTICAL CROSS SECTION**  
 4 Outswing shown (Inswing similar)



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



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



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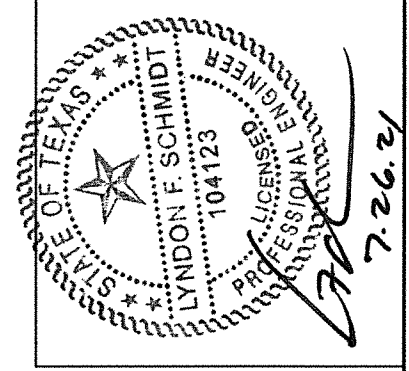
PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE:	7/21/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5221
SHEET	4 OF 9

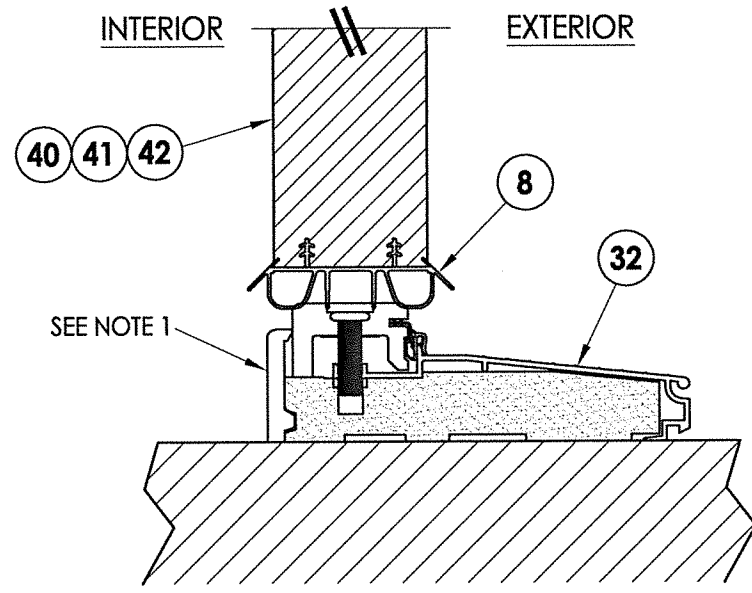
**Notes:**

- 1. Sill Item #32 is attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
- Sill Item #33 is attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
- Sill Item #34 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.

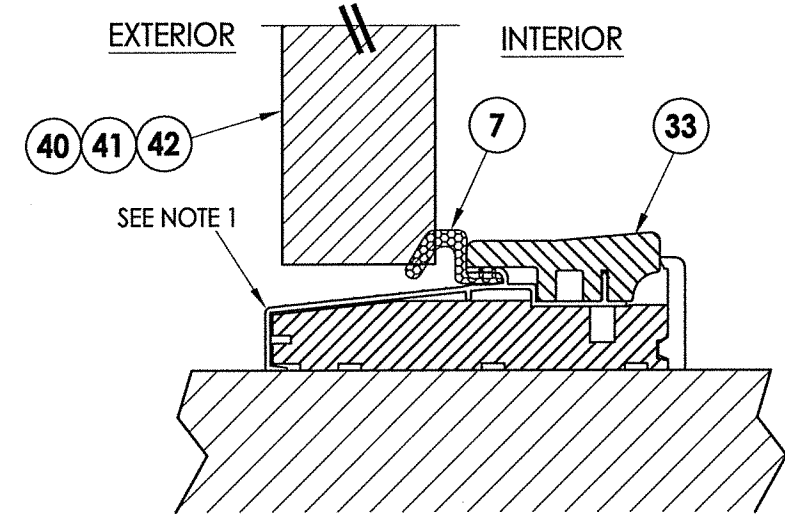


Documents Prepared By: Lyndon F. Schmidt, P.E.  
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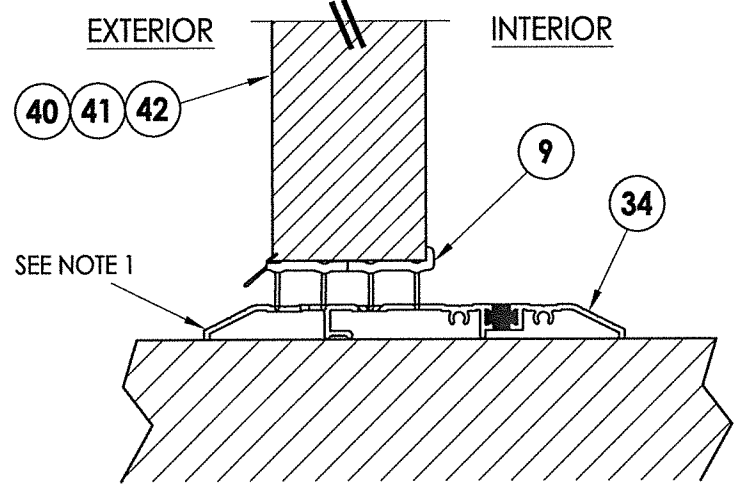
**RW** BUILDING CONSULTANTS, INC.  
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CERTIFICATE OF REGISTRATION # F-11852



**1** VERTICAL CROSS SECTION  
**5** Inswing Sill



**2** VERTICAL CROSS SECTION  
**5** Outswing Sill

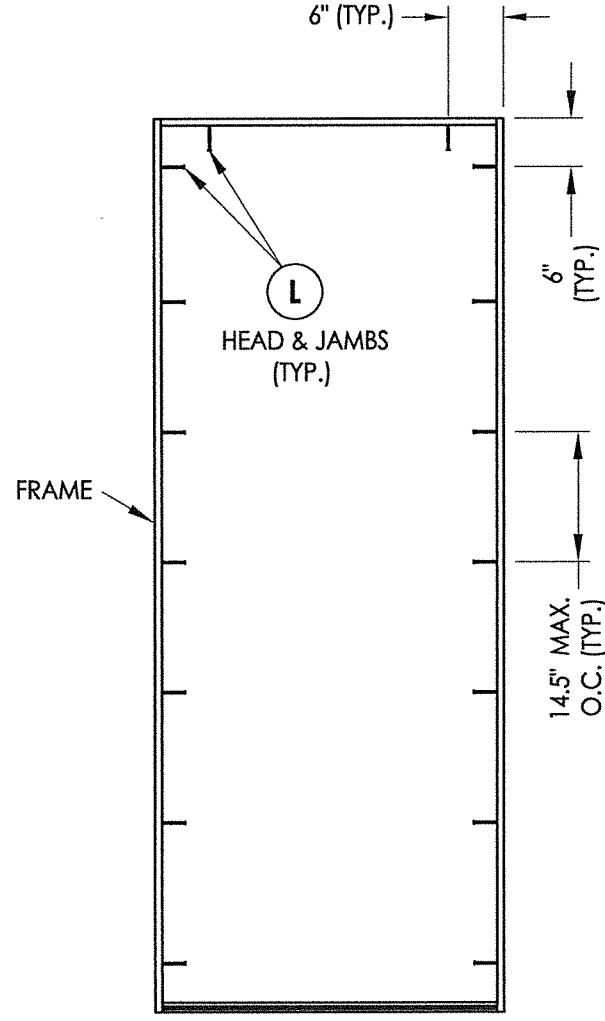


**3** VERTICAL CROSS SECTION  
**5** Public Access Sill

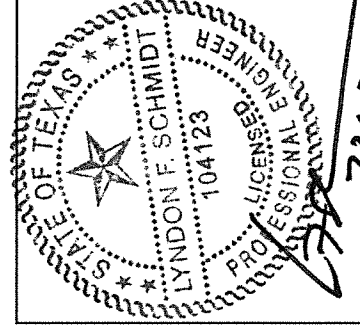
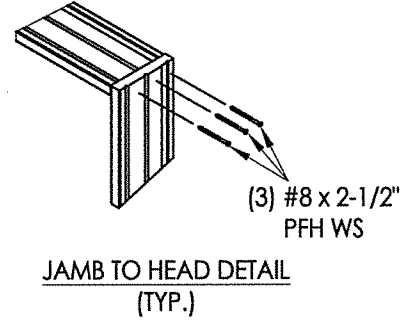
PRODUCT: THERMA-TRU  
FIBERGLASS DOOR  
PART OR ASSEMBLY:  
VERTICAL CROSS  
SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5221  
SHEET 5 OF 9



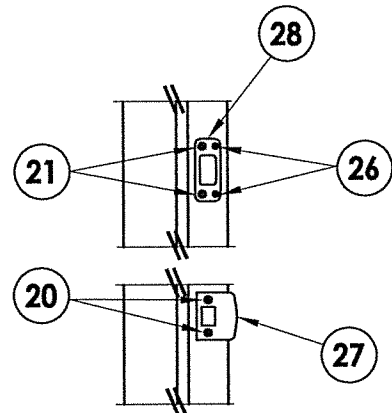
**FRAME ANCHORING**



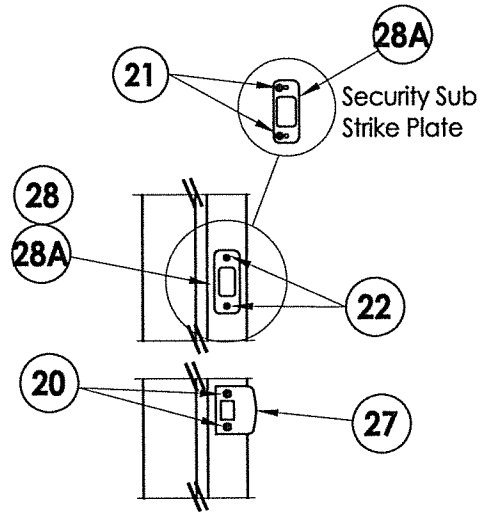
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: FRAME ANCHORING	
NO.	DATE
REVISIONS	
DATE: 7/21/21	
SCALE: N.T.S.	
DWG. BY: RW	
CHK. BY: LFS	
DRAWING NO.: TX-5221	
SHEET 6 OF 9	

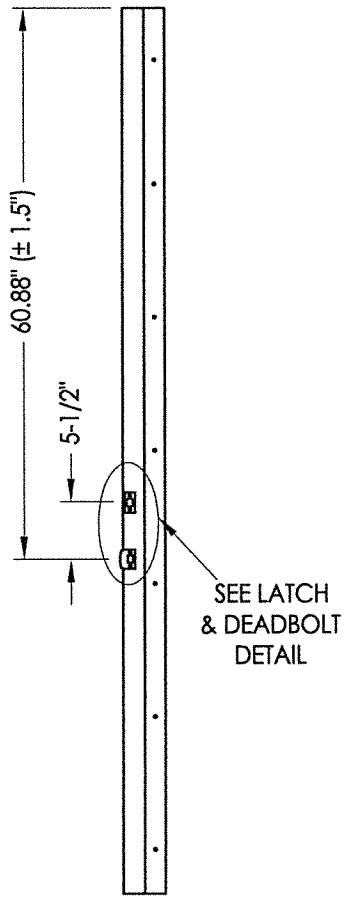


**LATCH & DEADBOLT DETAIL**  
Kwikset

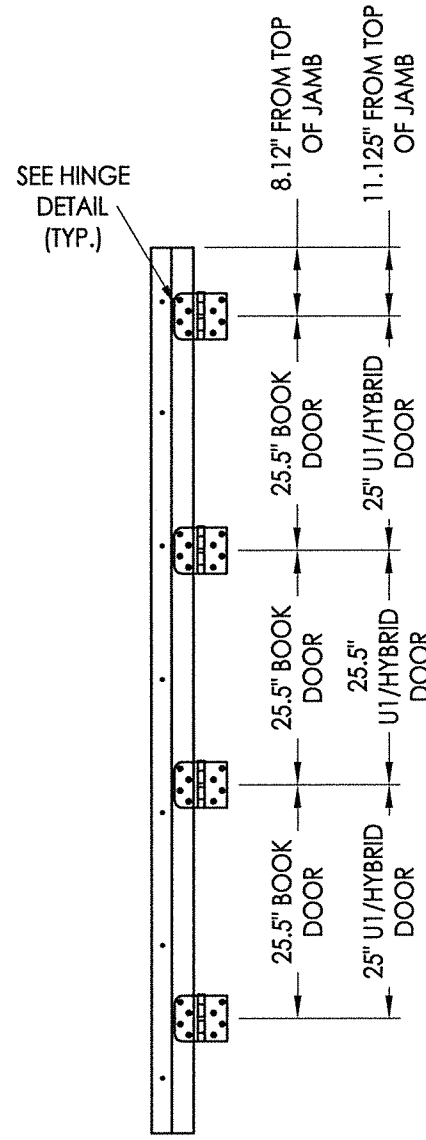


**LATCH & DEADBOLT DETAIL**  
Schlage

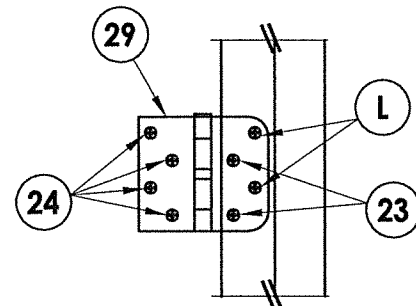
**LATCH & DEADBOLT STRIKE DETAILS**



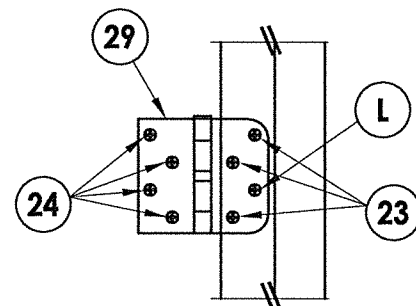
**STRIKE JAMB**  
Latch & Deadbolt



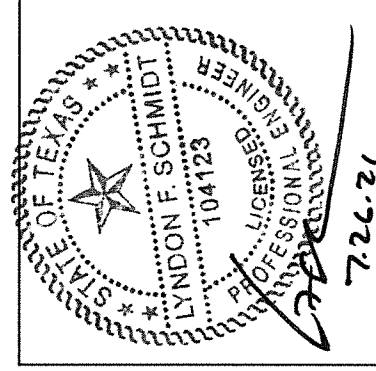
**HINGE JAMB**



**HINGE DETAIL**  
Inswing



**HINGE DETAIL**  
Outswing



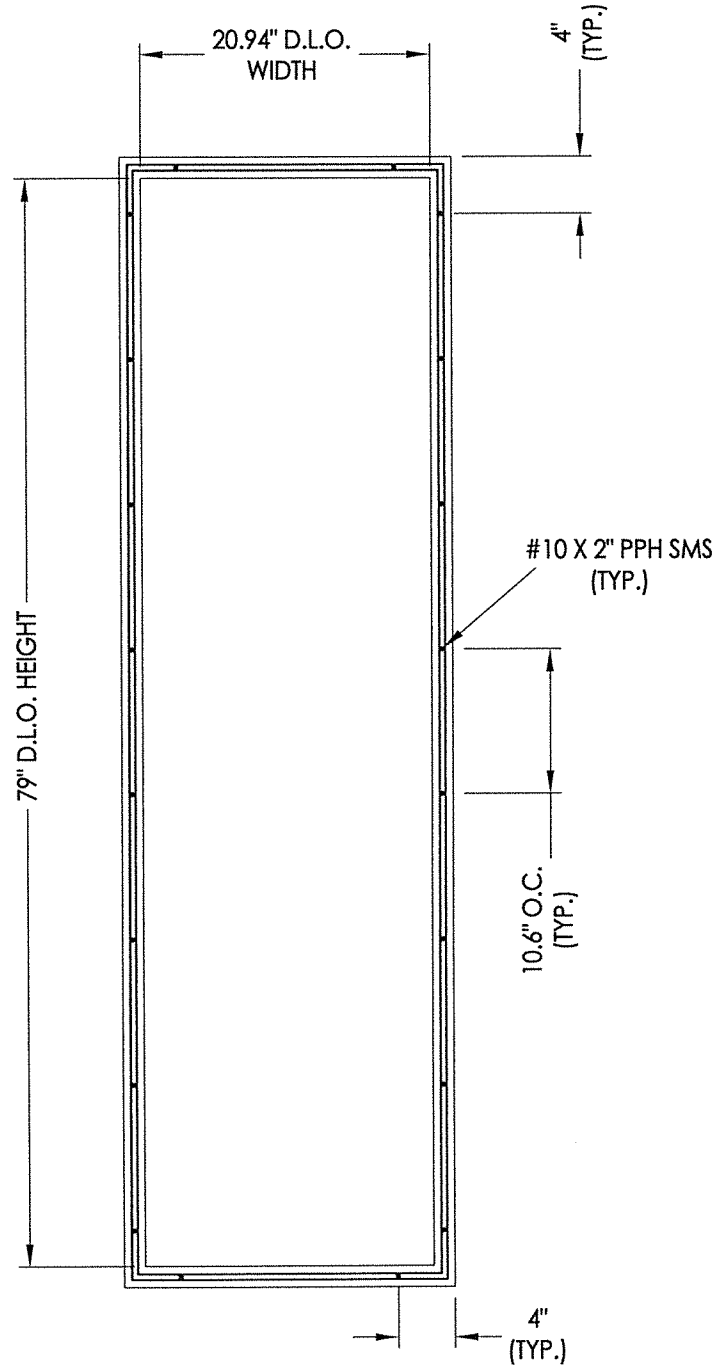
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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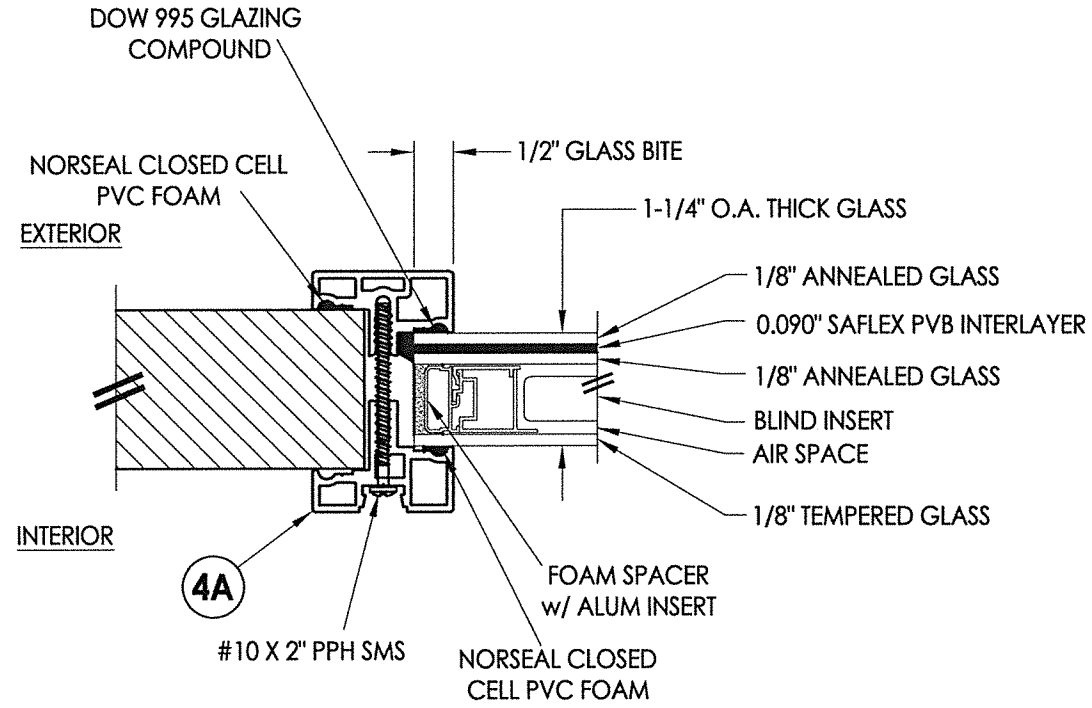
PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS

NO.	DATE	BY	REVISIONS

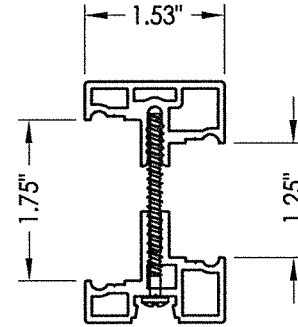
DATE:	7/21/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5221
SHEET	7 OF 9



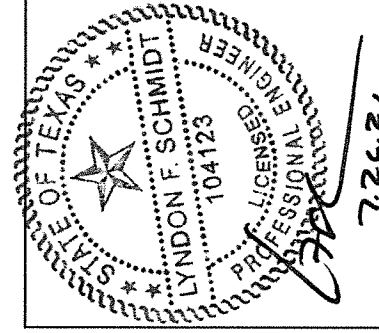
**8'-0" LITE FRAME**  
ALUM. (6063-T5)



**G1 GLAZING DETAIL**  
1-1/4" Insulated Laminated Glass  
w/ Internal Blinds



**4A ALUMINUM IMPACT LITE FRAME**



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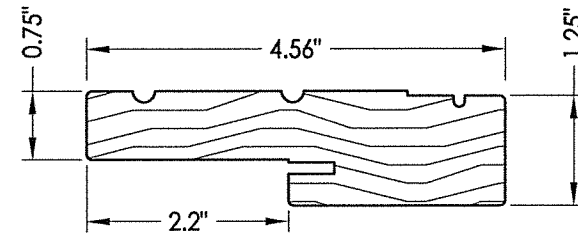
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PART OR ASSEMBLY:	LITE FRAME & GLAZING DETAILS

NO.	DATE	BY	REVISIONS

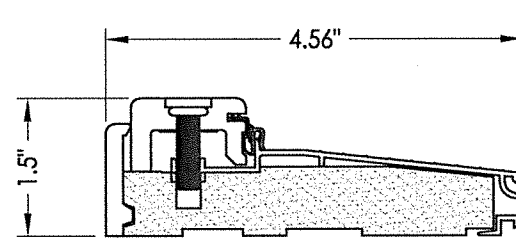
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SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5221
SHEET	8 OF 9



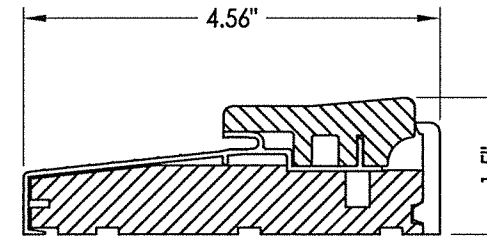
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#10 X 2" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	FINGER JOINT PINE JAMB	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
20	#8 X 2-1/2" PFH WOOD SCREW	STEEL
21	#12 X 2-1/2" PFH WOOD SCREW	STEEL
22	#8 X 3/4" PFH WOOD SCREW	STEEL
23	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#9 X 1" PFH WOOD SCREW	STEEL
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
33	OUTSWING THRESHOLD	ALUM/COMP
34	PUBLIC ACCESS THRESHOLD	ALUM
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-



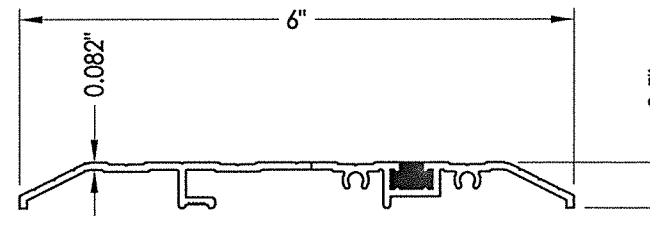
1 FINGER JOINT PINE JAMB



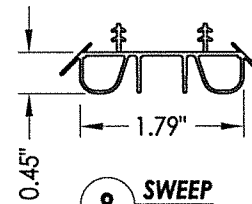
32 INSWING THRESHOLD  
Adjustable Composite Sill



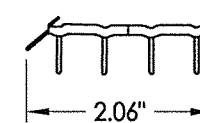
33 OUTSWING THRESHOLD  
Composite Sill



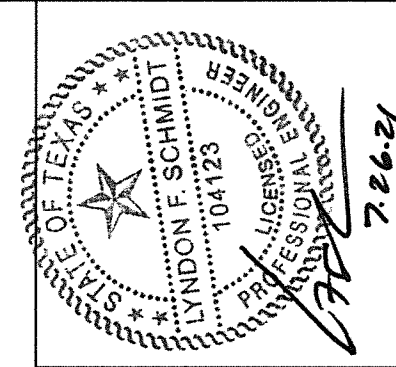
34 PUBLIC ACCESS THRESHOLD



8 SWEEP



9 SWEEP



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Phone No.: 813.659.9197

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

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
BILL OF MATERIALS  
& COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5221  
SHEET 9 OF 9