

# THERMA-TRU<sup>®</sup> DOORS

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

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

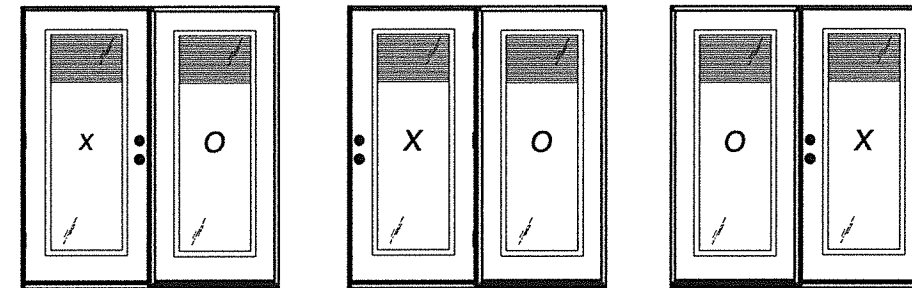
### EVALUATED FOR USE IN THE STATE OF TEXAS

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.

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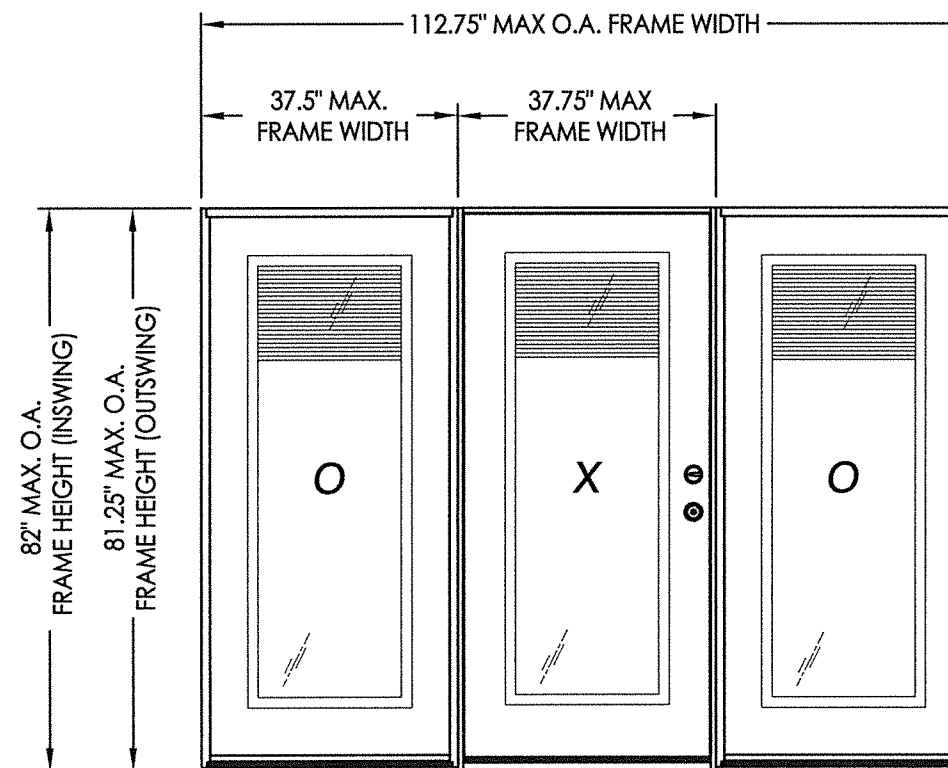
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Sidelite Panel Details
4	Elevations
5	Horizontal & Vertical Cross Sections
6	Vertical Cross Sections
7	Frame Anchoring
8	Hardware Details
9	Lite Frame & Glazing Details
10	Bill of Materials & Components



XO

XO

OX



82" MAX. O.A.  
FRAME HEIGHT (INSWING)

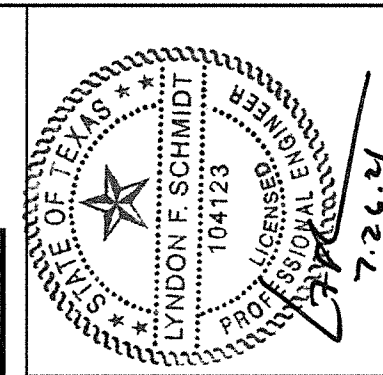
81.25" MAX. O.A.  
FRAME HEIGHT (OUTSWING)

37.5" MAX.  
FRAME WIDTH

37.75" MAX.  
FRAME WIDTH

112.75" MAX O.A. FRAME WIDTH

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+45.0	-50.0	+45.0	-45.0



7-21-21

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

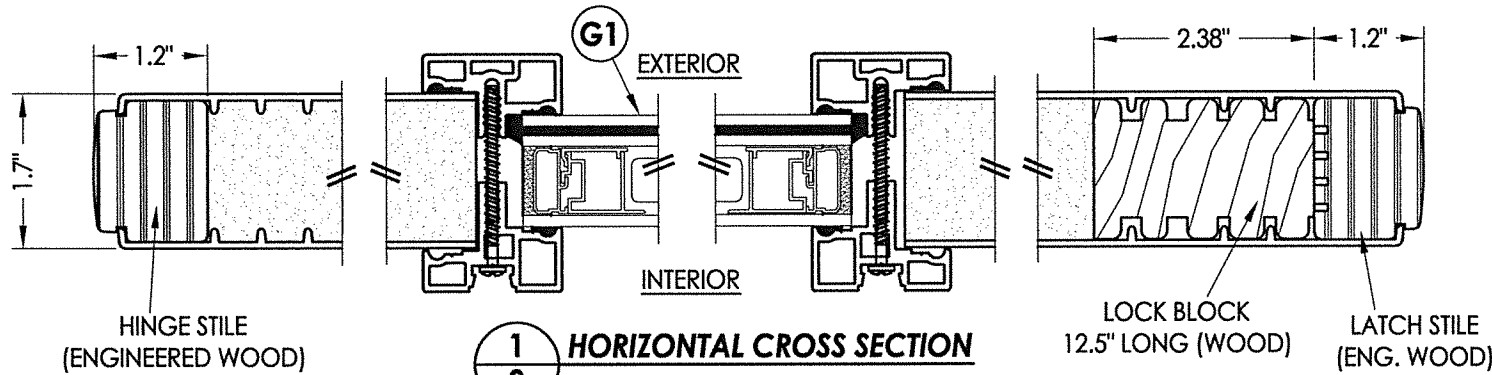
PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

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

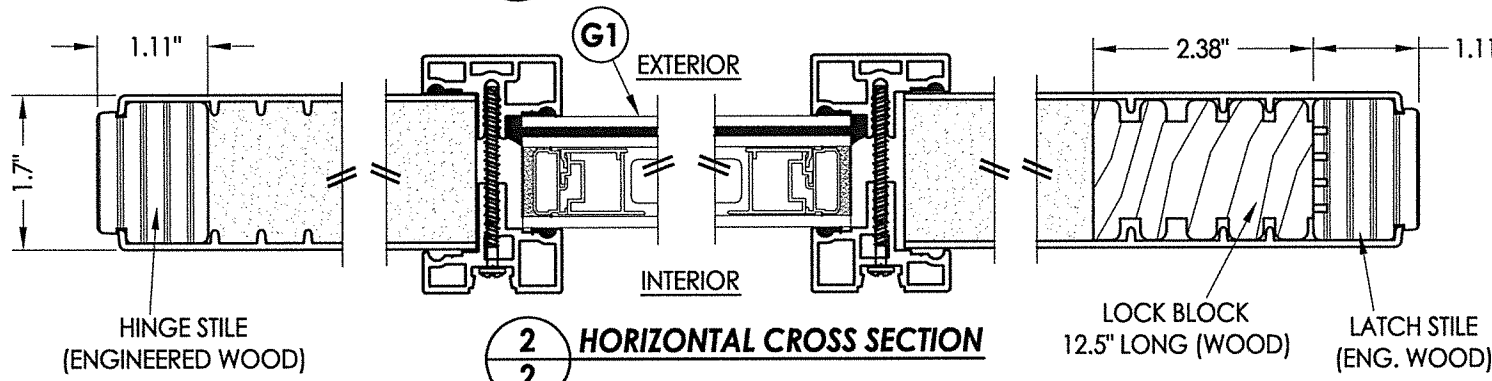
NO.	DATE	BY	REVISIONS

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5219  
SHEET 1 OF 10

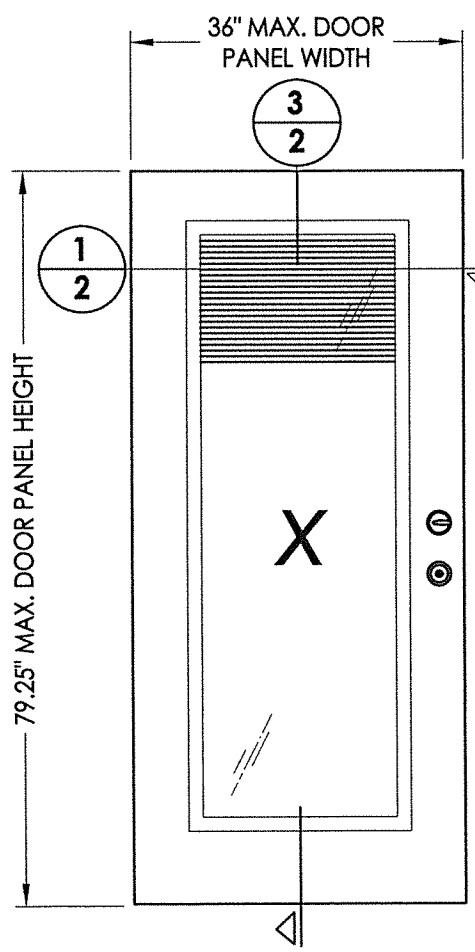
Z:\Clients\Therma Tru Permanent\B - Texas Dept of Ins\TDI - XXX ID XXXX-68 & 8'0 BGG FG Imp FJ Jambs (TX 5218-5223)\C - Drawings\TX-5218-5220.dwg



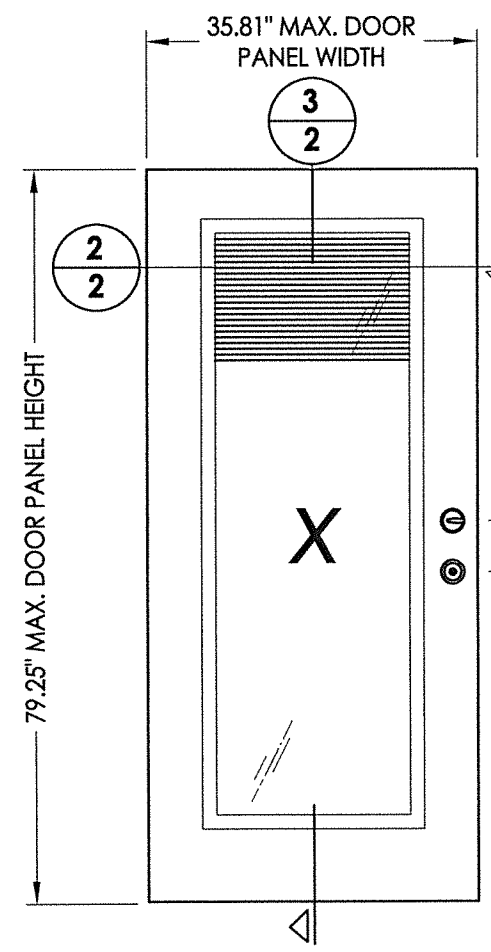
**1**  
**2** **HORIZONTAL CROSS SECTION**



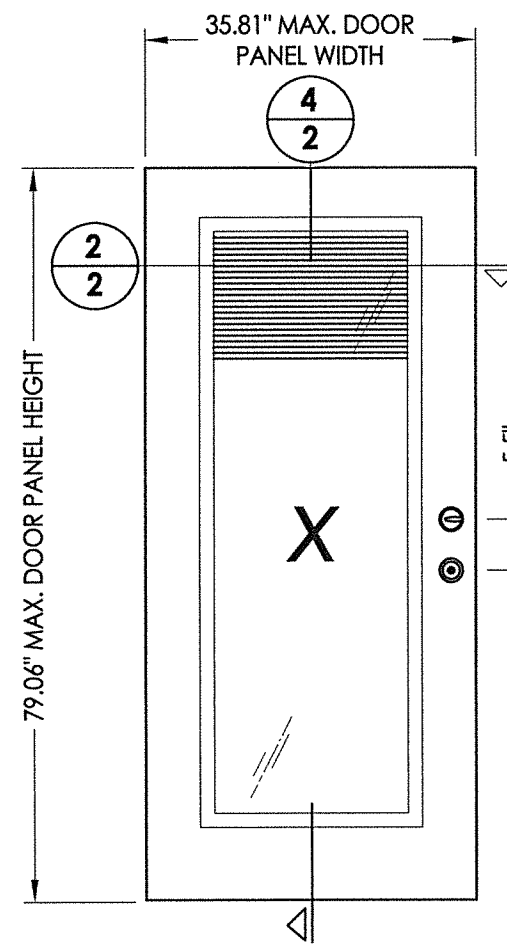
**2**  
**2** **HORIZONTAL CROSS SECTION**



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

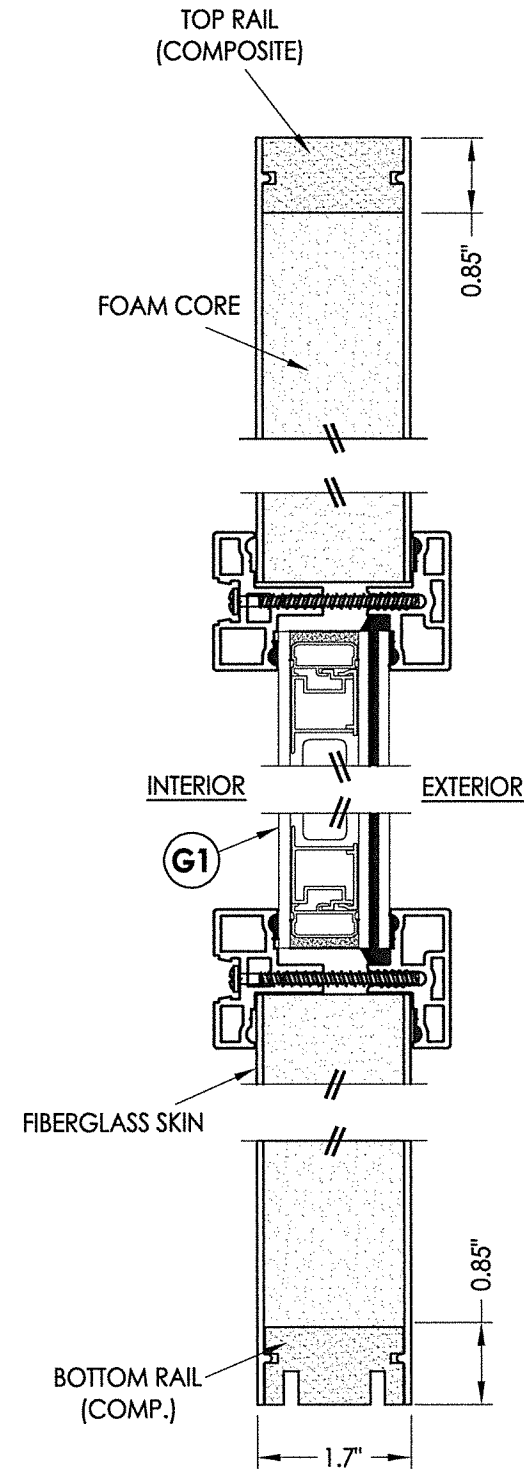


**41** **FIBERGLASS DOOR PANEL**  
HYBRID DOOR - WOOD EDGE

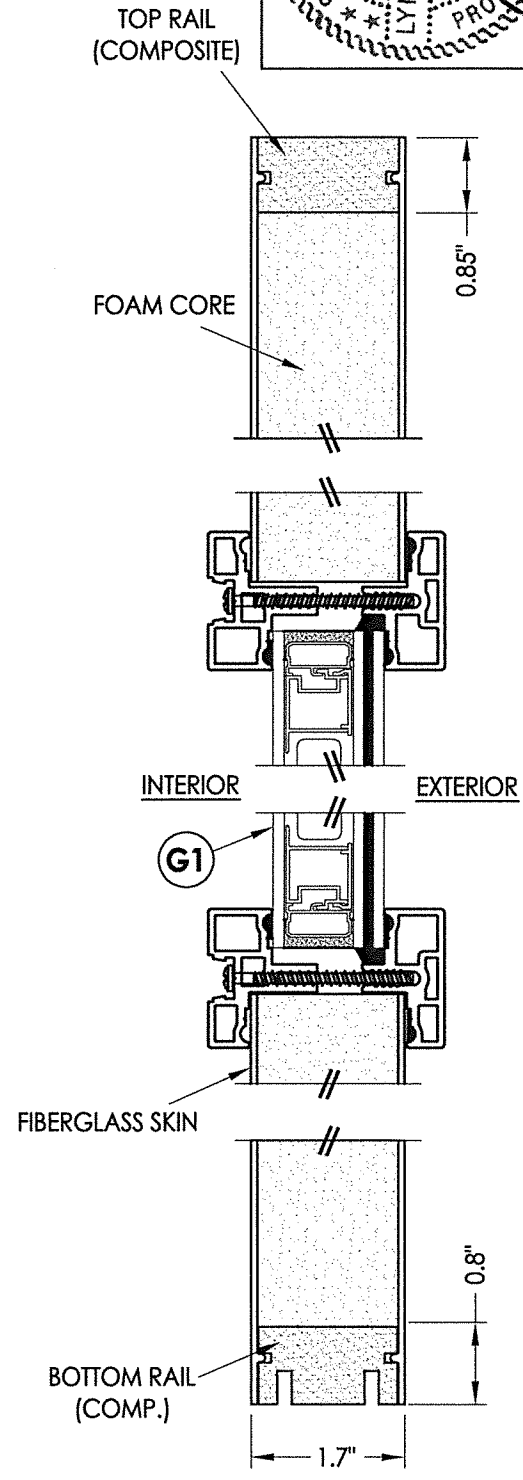


**42** **FIBERGLASS DOOR PANEL**  
U1 DOOR - WOOD EDGE

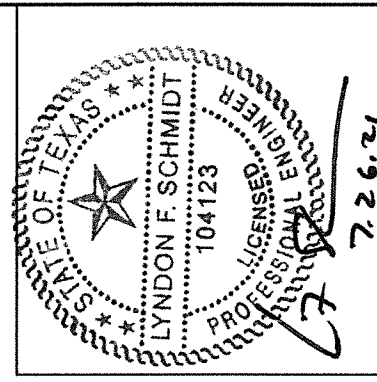
FIBERGLASS SKIN: 0.073" MIN. THK.  
FOAM CORE: POLYURETHANE -1.9 PCF MIN.



**3**  
**2** **VERTICAL CROSS SECTION**



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



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**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vairico FL 33595  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

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-5219  
SHEET 2 OF 10



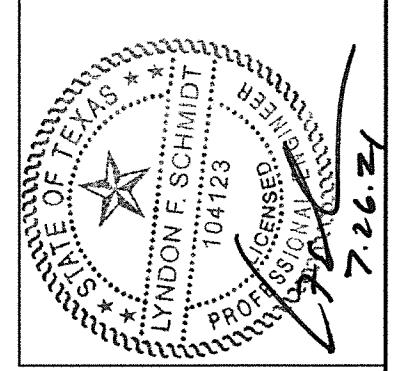
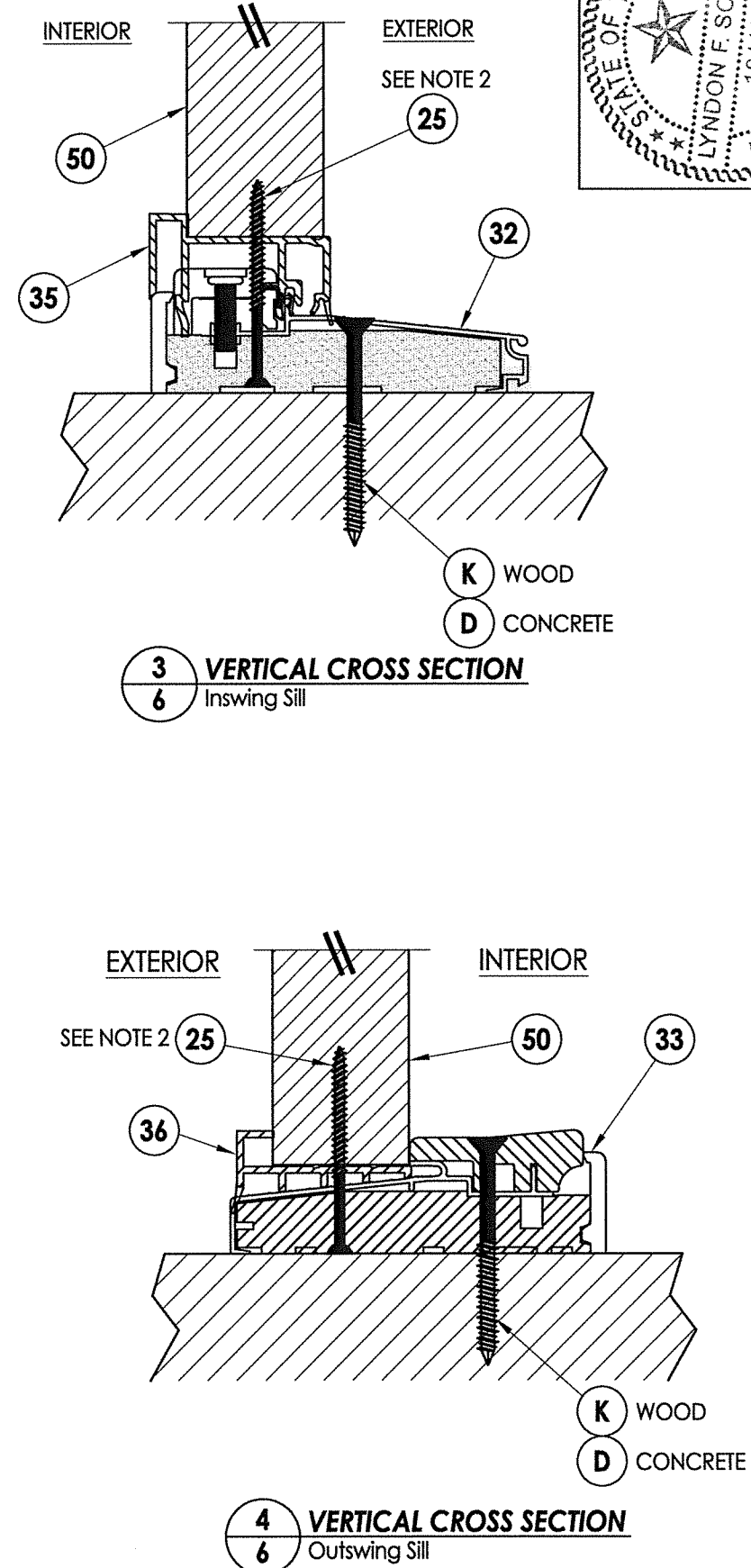
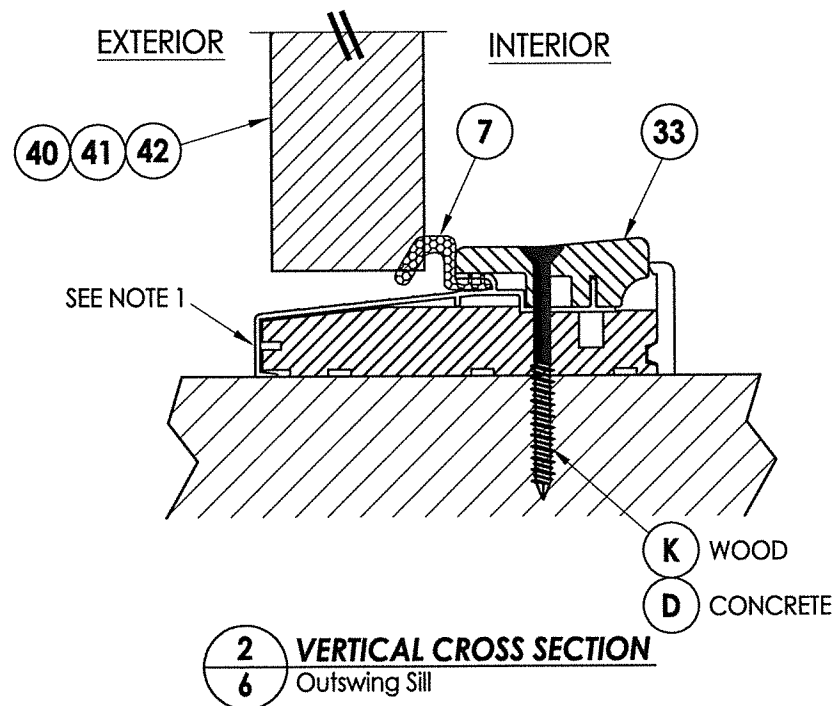
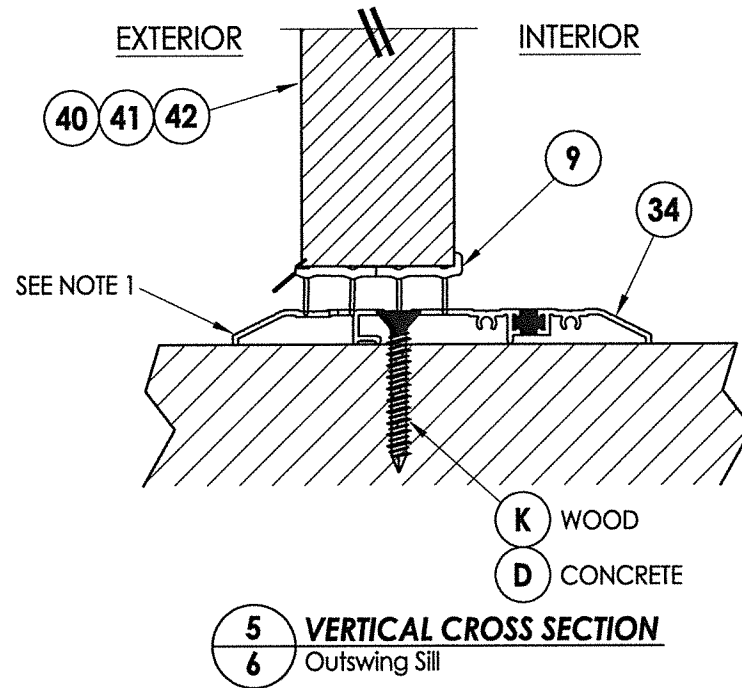
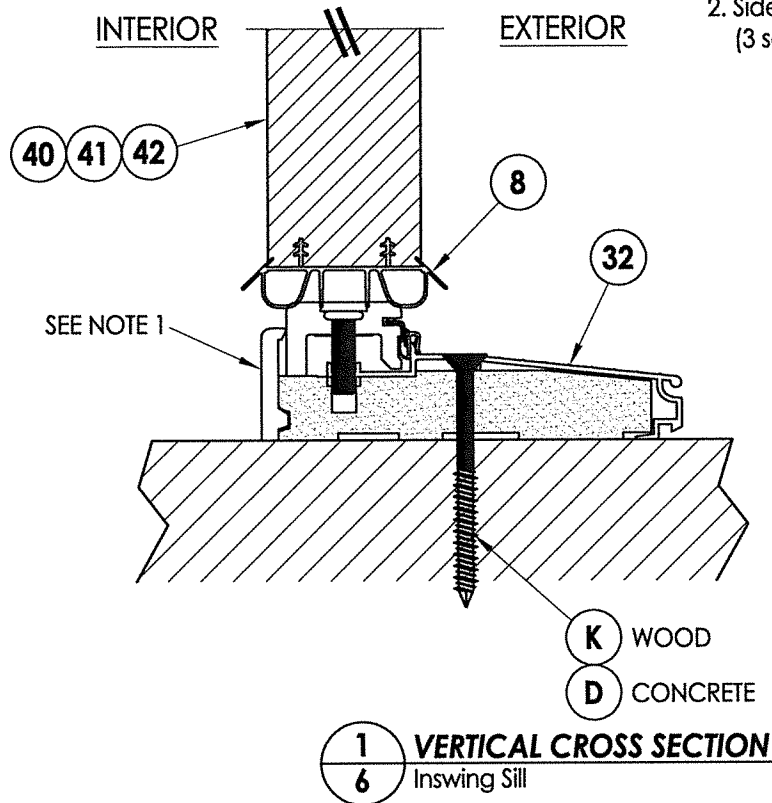




Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - XXX ID XXXX- 6'8 & 8'0 BBG FG Imp FJ Jambs (TX-5218-5223)\C - Drawings\TX-5218-5220.dwg

**Notes:**

- 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.
- Sidelite assembly screws located 3" from each end and @ centerline (3 screws along sill).



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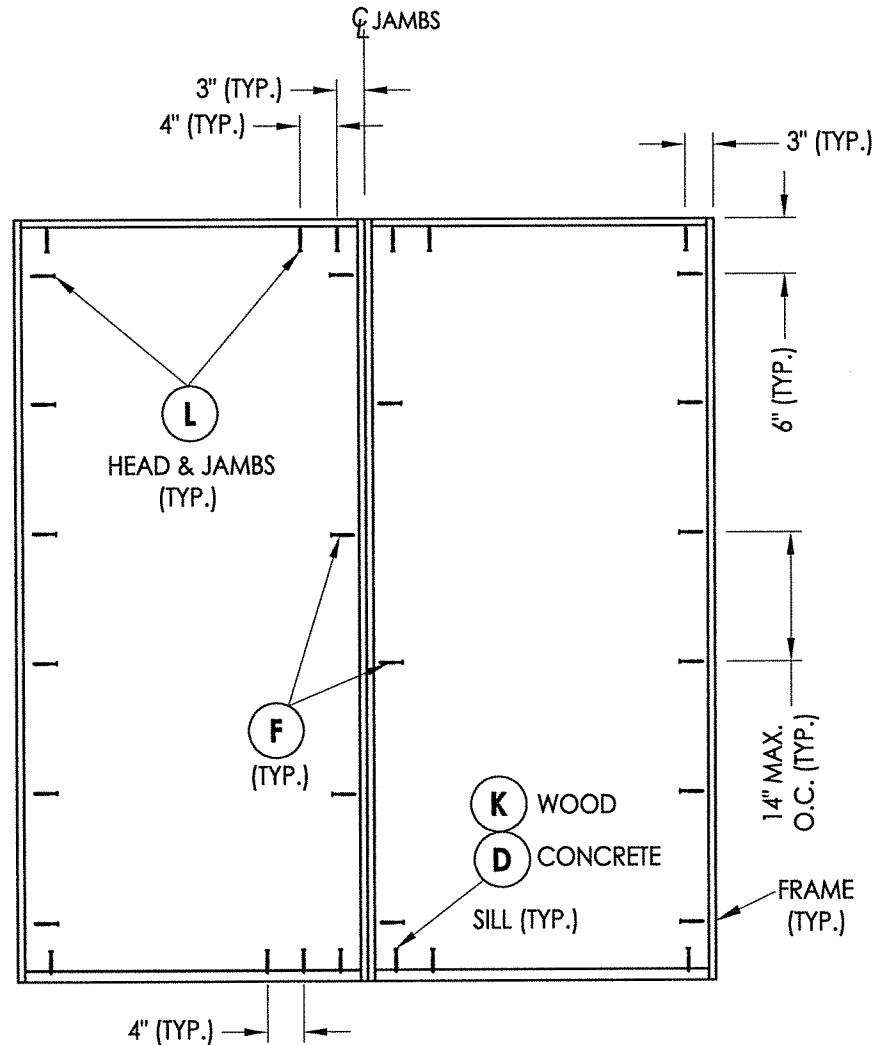
PRODUCT: THERMA-TRU FIBERGLASS DOOR  
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5219  
SHEET 6 of 10

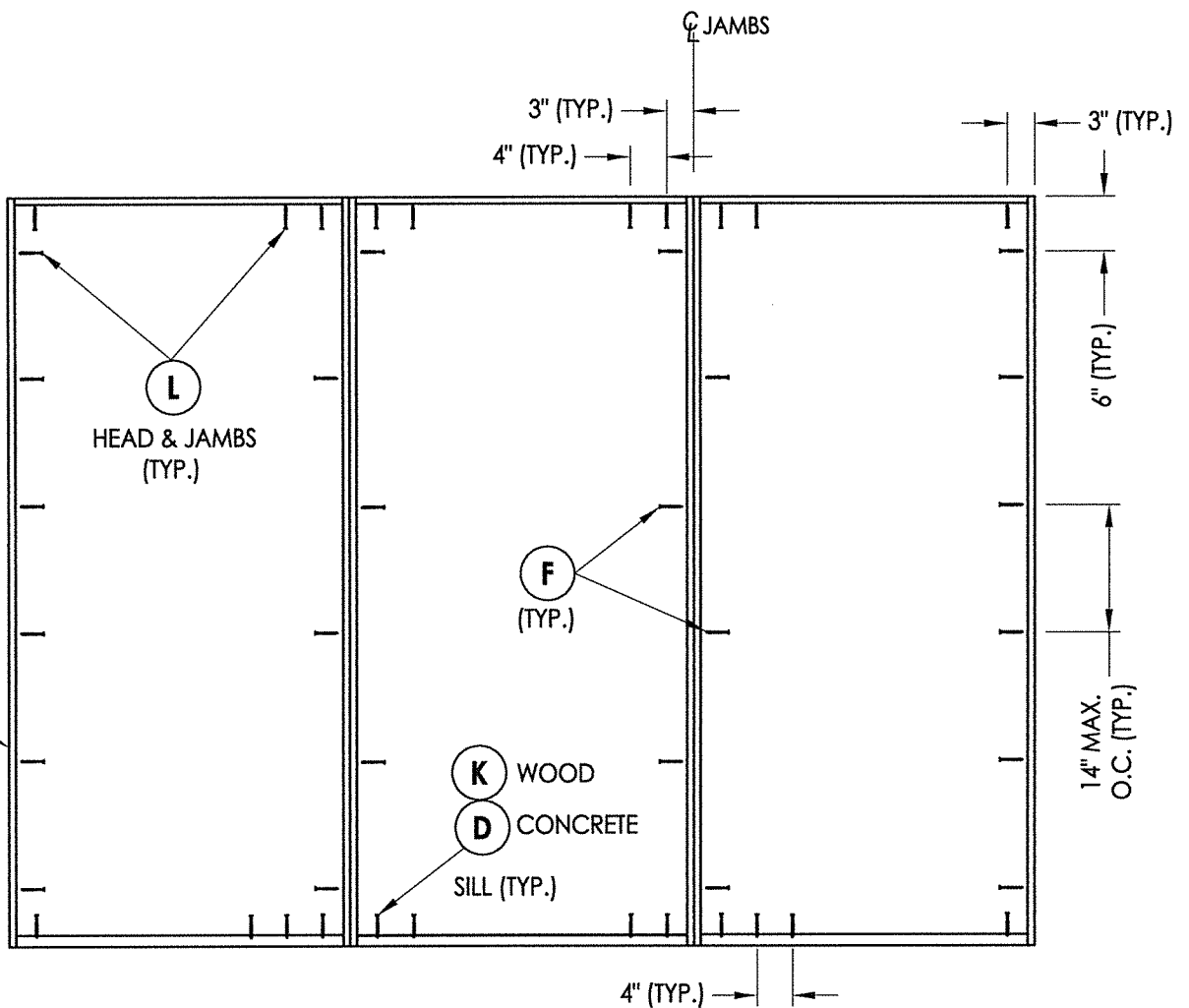


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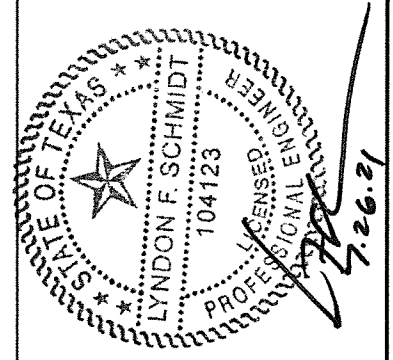
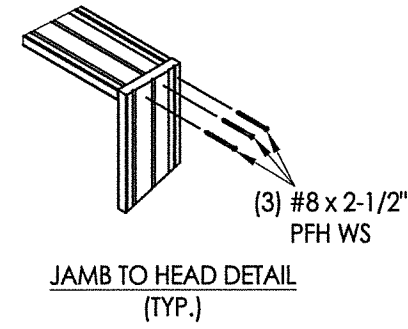


XO/OX

FRAME (TYP.)



OXO



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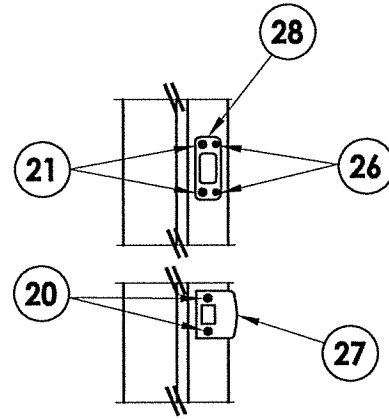
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR  
PART OR ASSEMBLY: FRAME ANCHORING

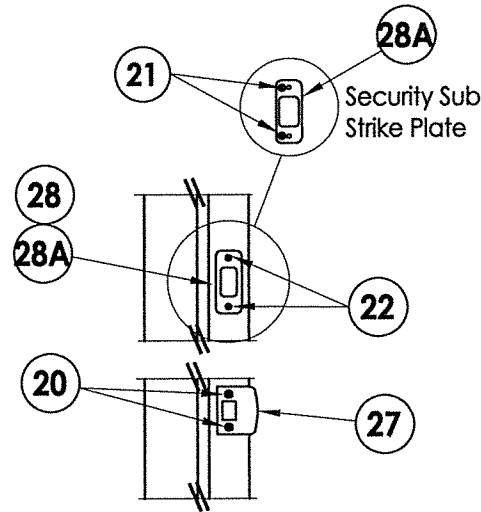
NO.	DATE	BY	REVISIONS

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5219  
SHEET 7 OF 10

**FRAME ANCHORING**

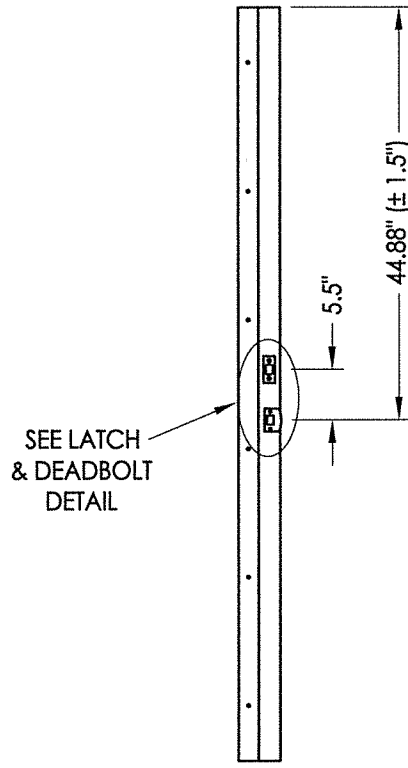


**LATCH & DEADBOLT DETAIL**  
Kwikset

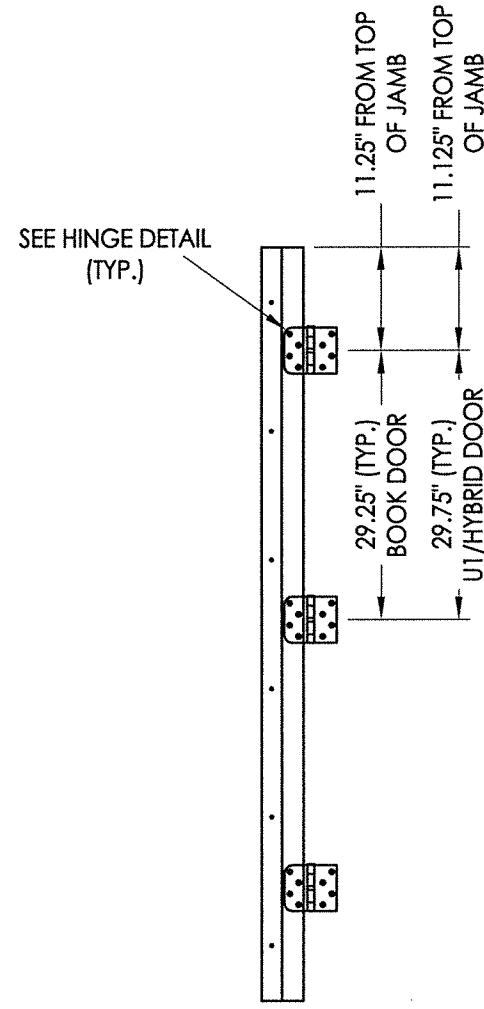


**LATCH & DEADBOLT DETAIL**  
Schlage

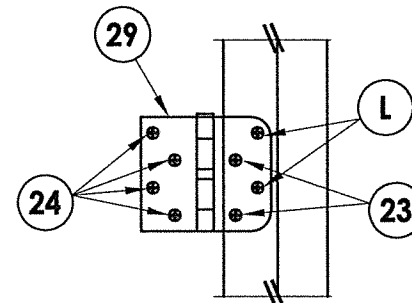
**LATCH & DEADBOLT STRIKE DETAILS**



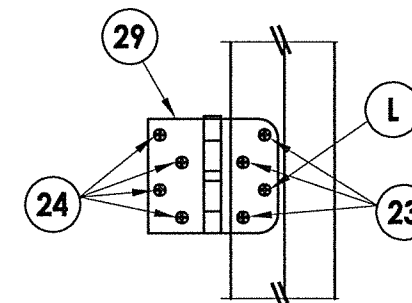
**STRIKE JAMB**  
Latch and Deadbolt



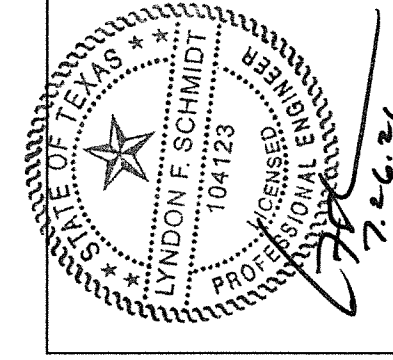
**HINGE JAMB**



**HINGE DETAIL**  
Inswing



**HINGE DETAIL**  
Outswing



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TEXAS P.E. #104123

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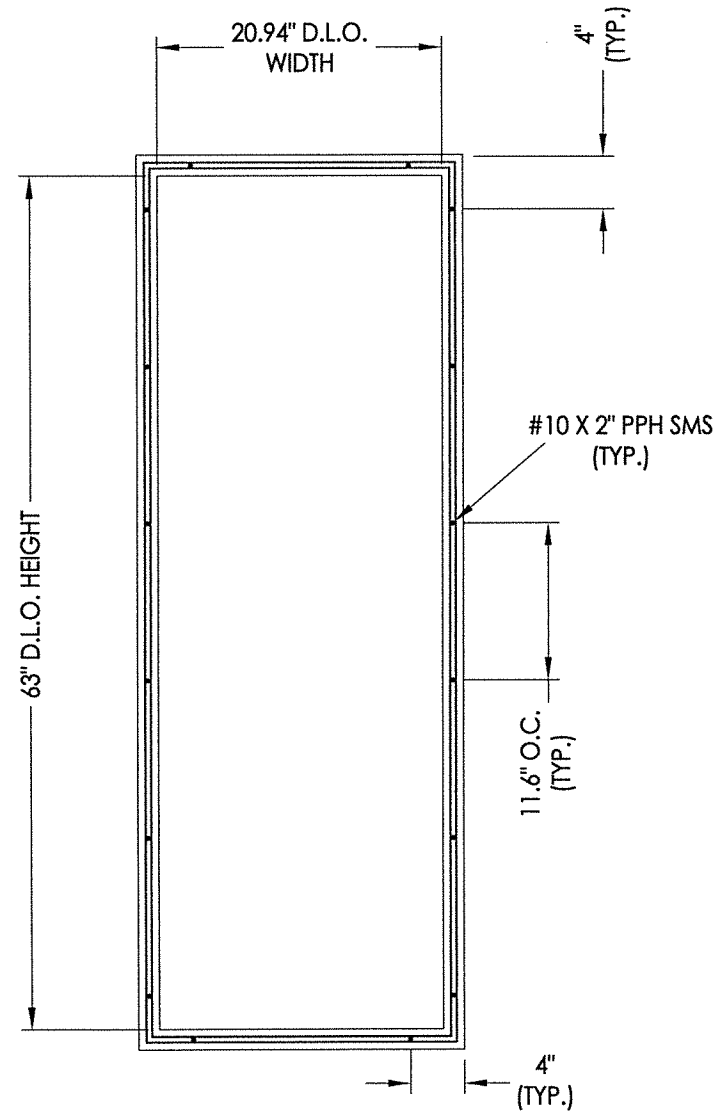
PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: HARDWARE DETAILS

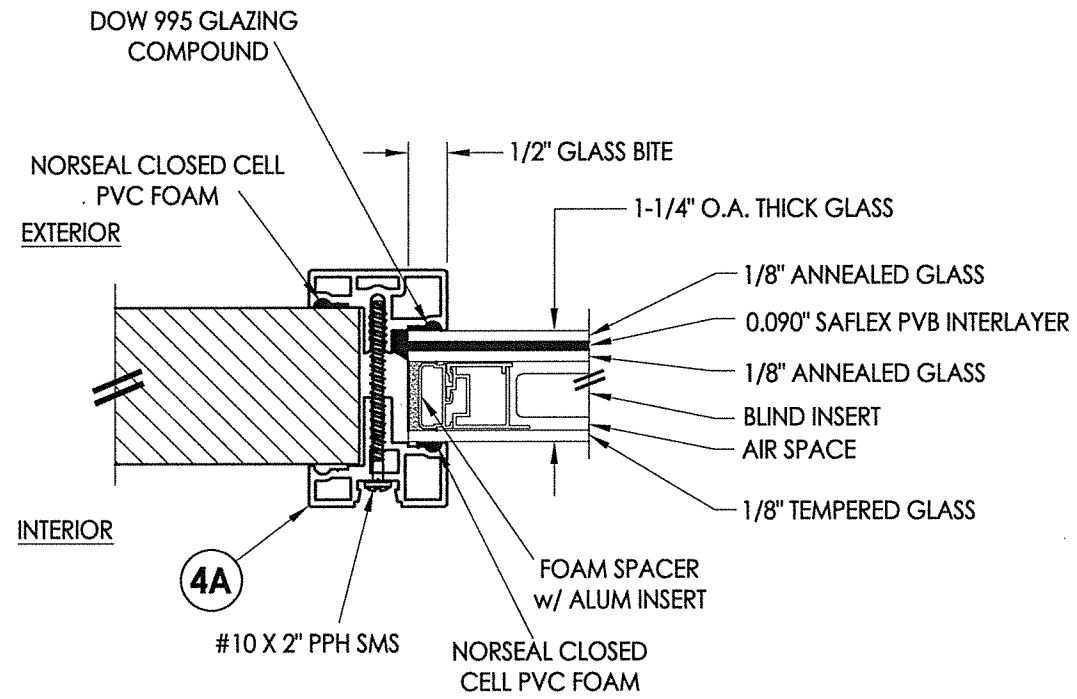
NO.	DATE	REVISIONS	BY

DATE: 7/21/21  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: TX-5219  
SHEET 8 OF 10

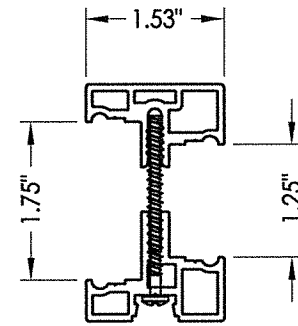




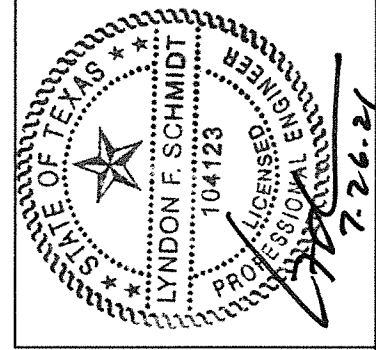
**6'-8" LITE FRAME**  
ALUM. (6063-T5)



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



**4A ALUMINUM IMPACT LITE FRAME**



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

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P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197

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

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	LITE FRAME & GLAZING DETAILS

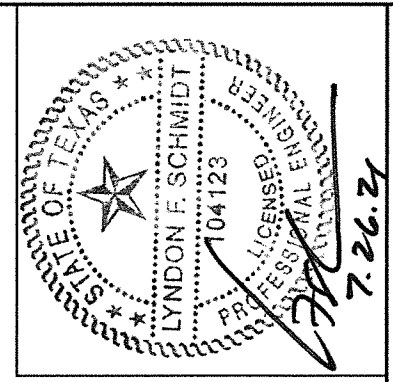
NO.	DATE	BY	REVISIONS

DATE:	7/21/21
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5219
SHEET	9 OF 10

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**BILL OF MATERIALS**

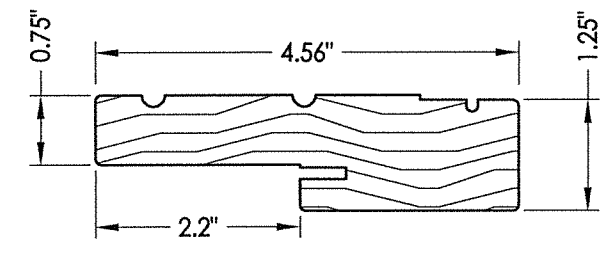
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL
K	#10 PFH WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	FINGER JOINT PINE JAMB	COMP
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 1-1/2" 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
25	#9 X 2-1/2" 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
35	SIDELITE SPACER (INSWING)	VINYL
36	SIDELITE SPACER (OUTSWING)	VINYL
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE PANEL	-



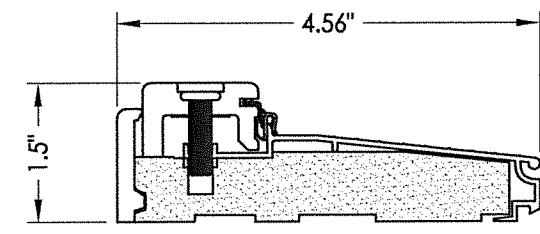
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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**RW** BUILDING CONSULTANTS, INC.  
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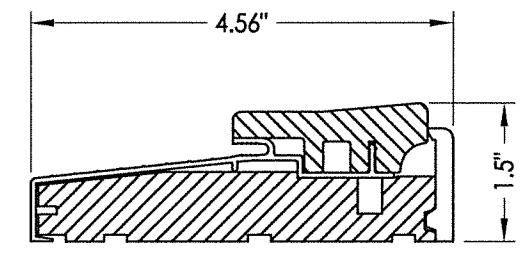
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852



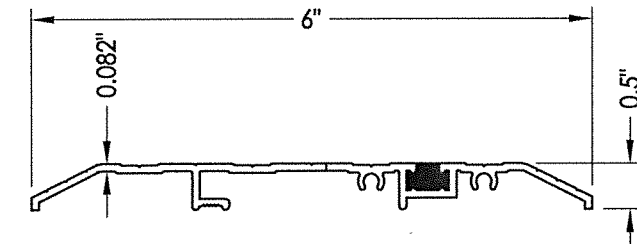
**1 FINGER JOINT PINE JAMB**



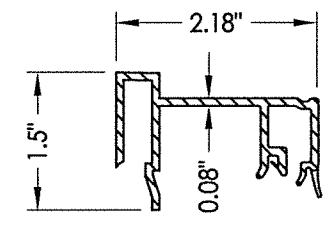
**32 INSWING THRESHOLD**  
Adjustable Composite Sill



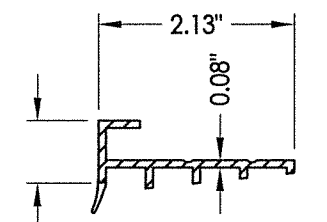
**33 OUTSWING THRESHOLD**  
Composite Sill



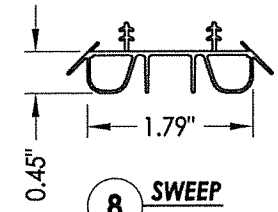
**34 PUBLIC ACCESS THRESHOLD**



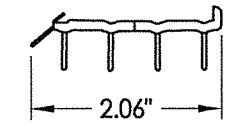
**35 SIDELITE SPACER**  
Inswing



**36 SIDELITE SPACER**  
Outswing



**8 SWEEP**



**9 SWEEP**

**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"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

**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.

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-5219

SHEET 10 of 10