

THERMA-TRU® DOORS

Fiber-Classic® & Smooth-Star®

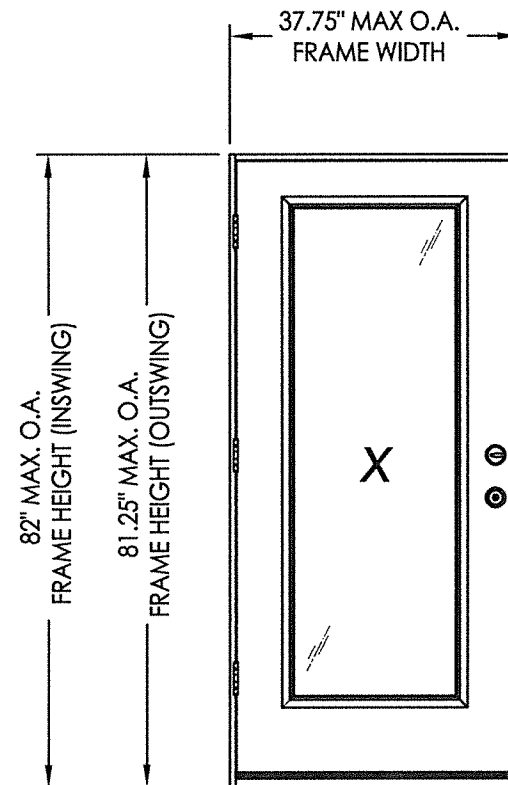
GLAZED MOLDED OPEN FIBERGLASS SINGLE DOOR INSWING/OUTSWING "IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

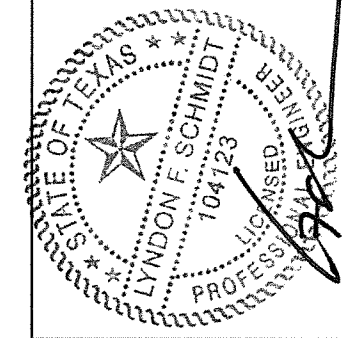
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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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6	Buck & Frame Anchoring
7	Hardware Details
8	Lite Frame & Glazing Details
9	Bill of Materials & Components



CONFIGURATION	LOCK TYPE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	LATCH & DEADBOLT	+60.0	-65.0	+60.0	-60.0
	MULTIPOINT LOCK	+50.0	-50.0	+50.0	-50.0



6-8-21

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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

PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS

DATE: 5/27/21

SCALE: N.T.S.

DWG. BY: RW

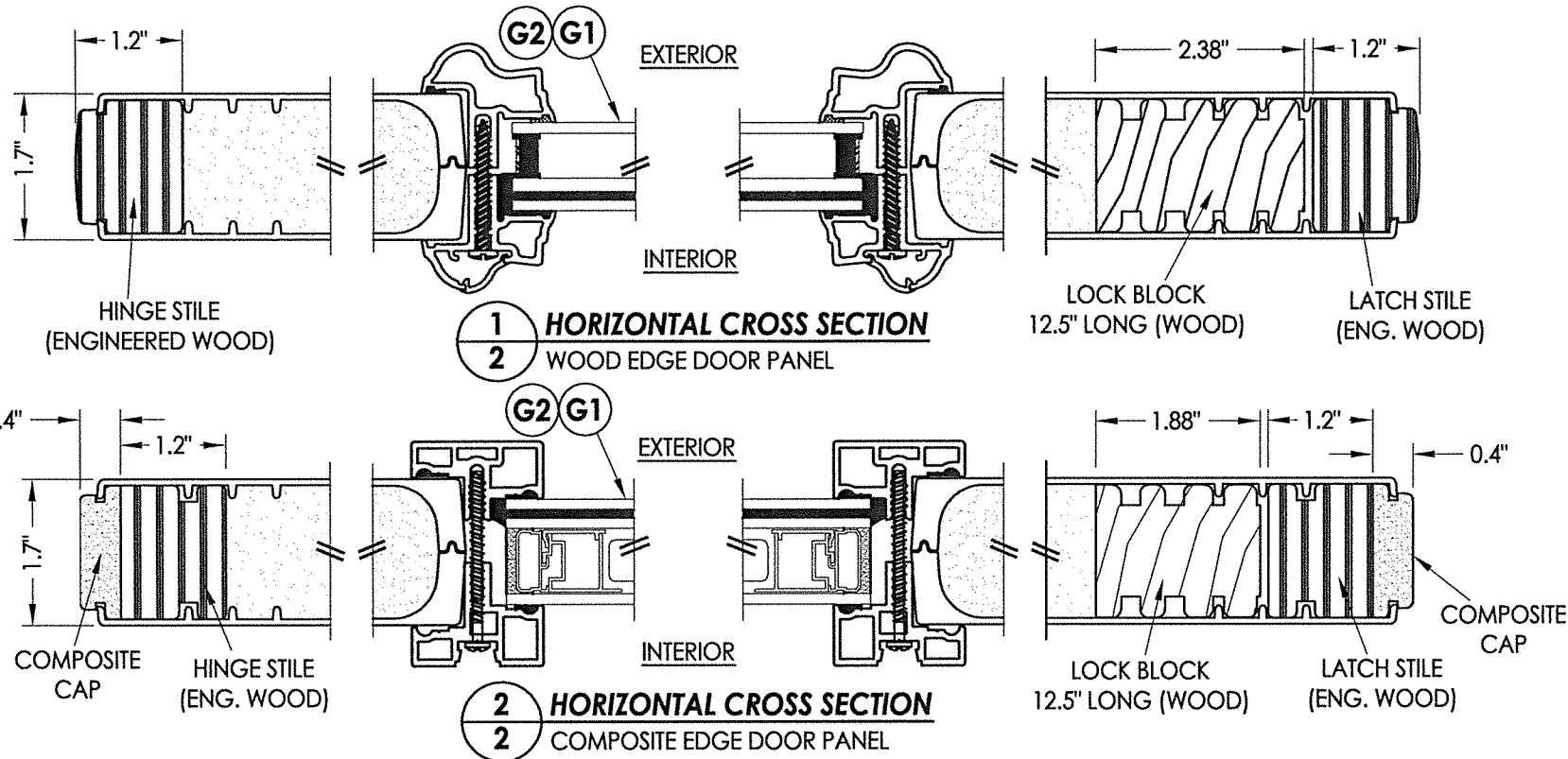
CHK. BY: LFS

DRAWING NO.:

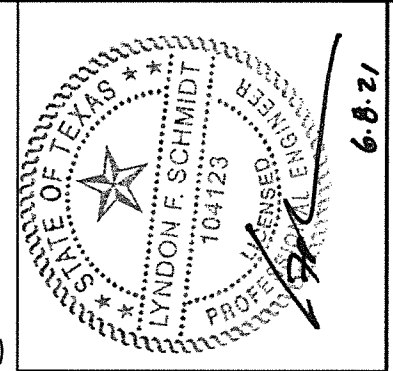
TX-5209

SHEET 1 OF 9

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - ID XXXX - 68 OP GLZ FG Imp Molded Open (TX 5209-5213)\C - Drawings\TX-5209-5211.dwg



NOTE: BOOK, HYBRID & U1 DOORS
MAY EACH BE FABRICATED AS WOOD
OR COMPOSITE EDGE DOORS.

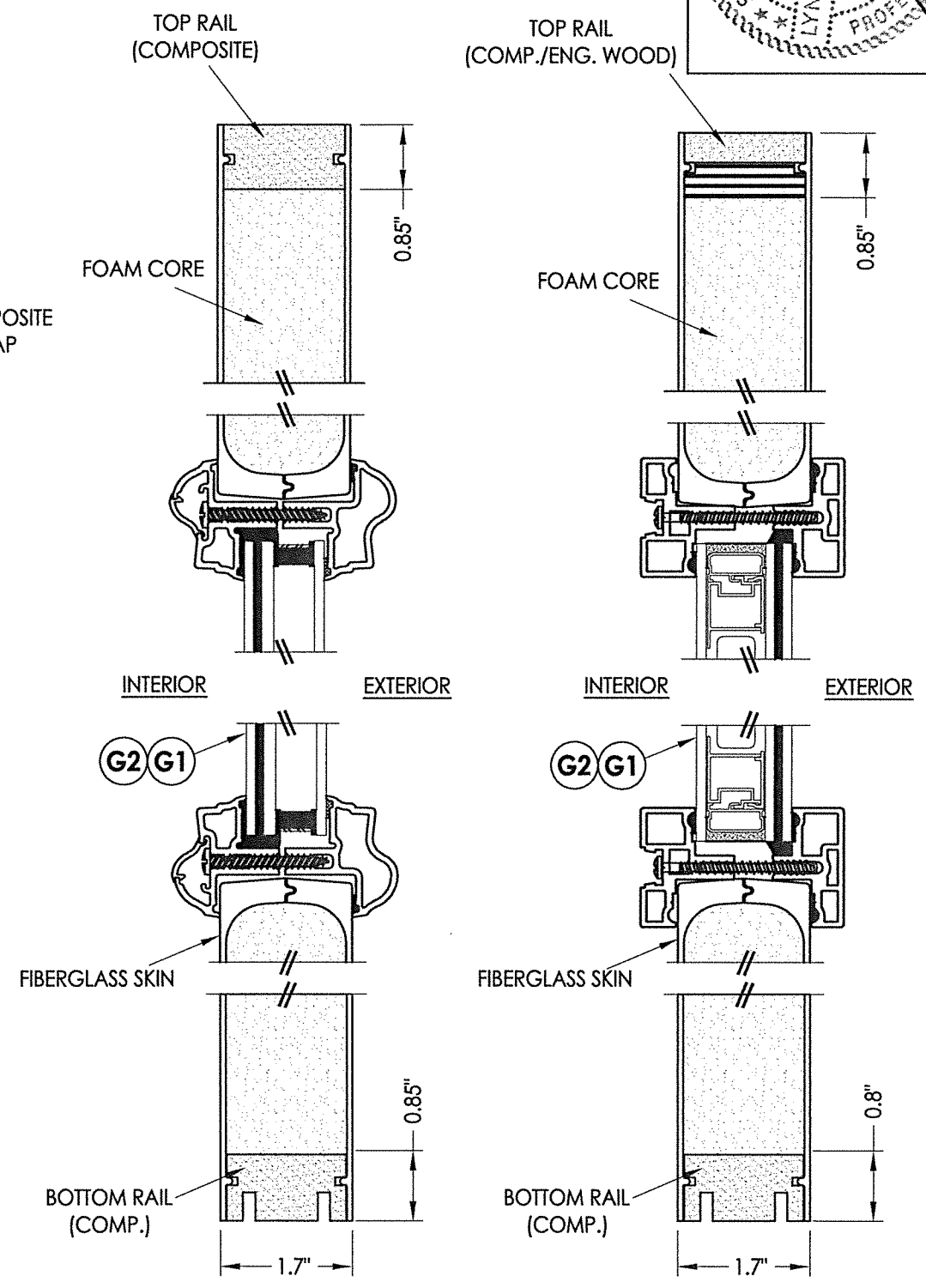
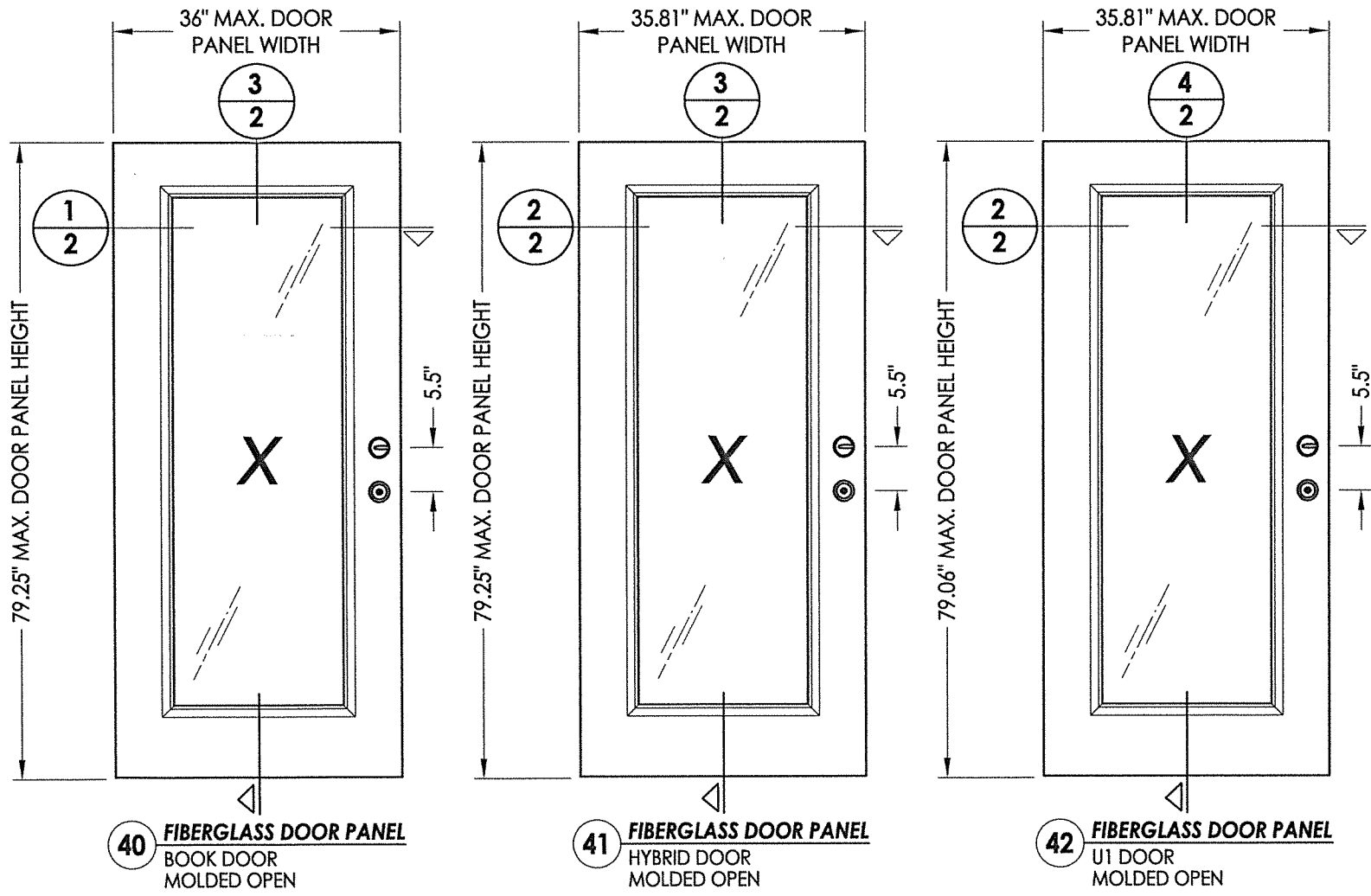


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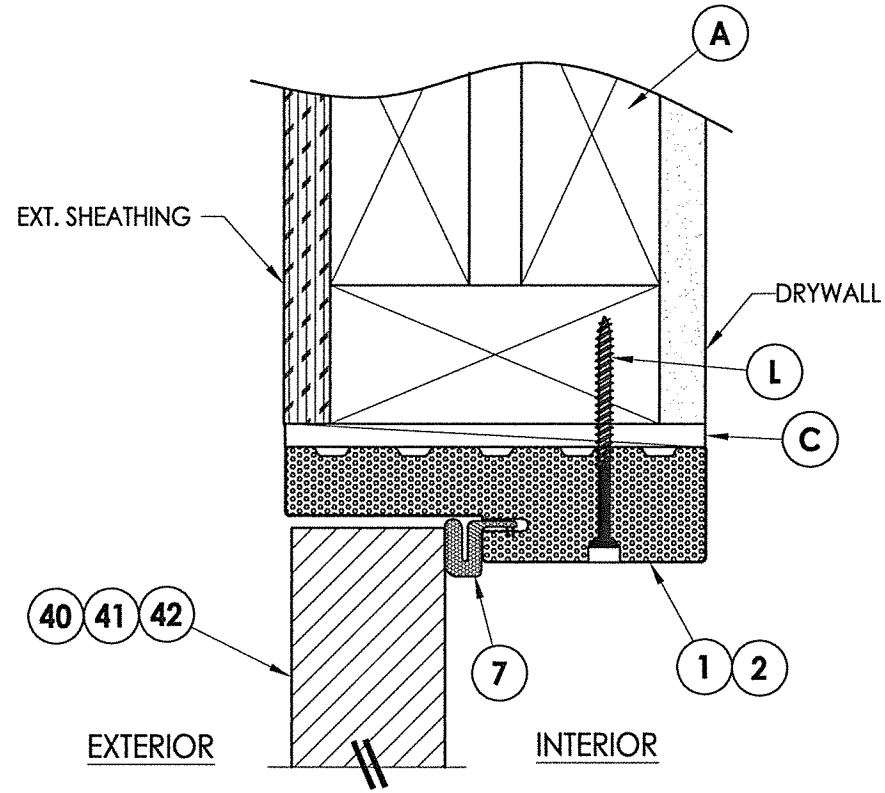
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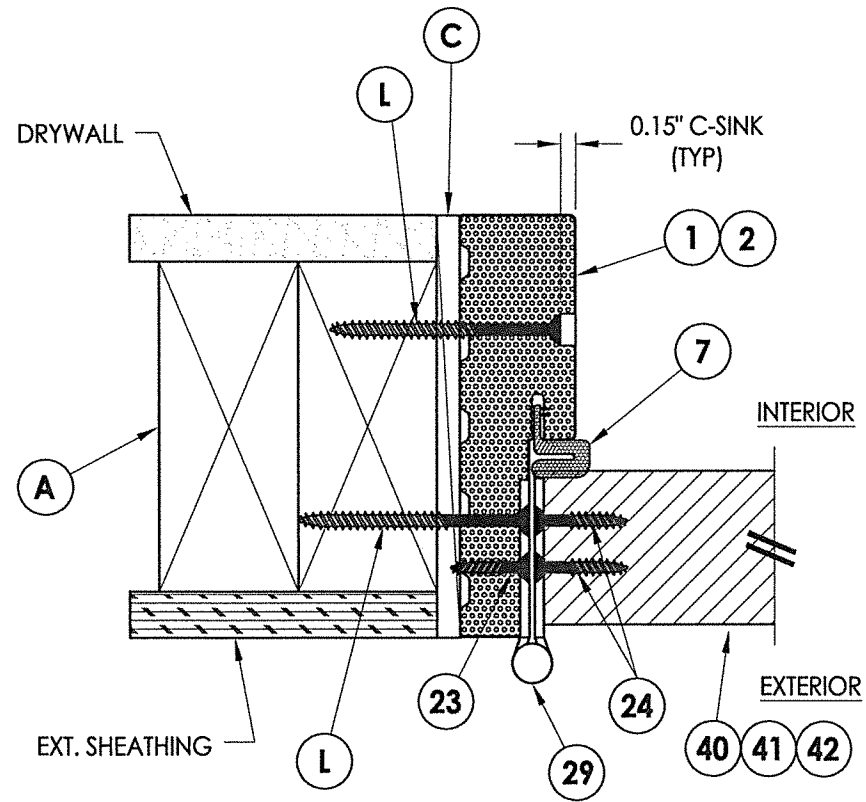
FIBERGLASS SKIN: 0.073" MIN. THK.
FOAM CORE: POLYURETHANE -1.9 PCF MIN.

PRODUCT:	Therma-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:	DOOR PANEL DETAILS	
NO.	DATE	BY
		REVISIONS

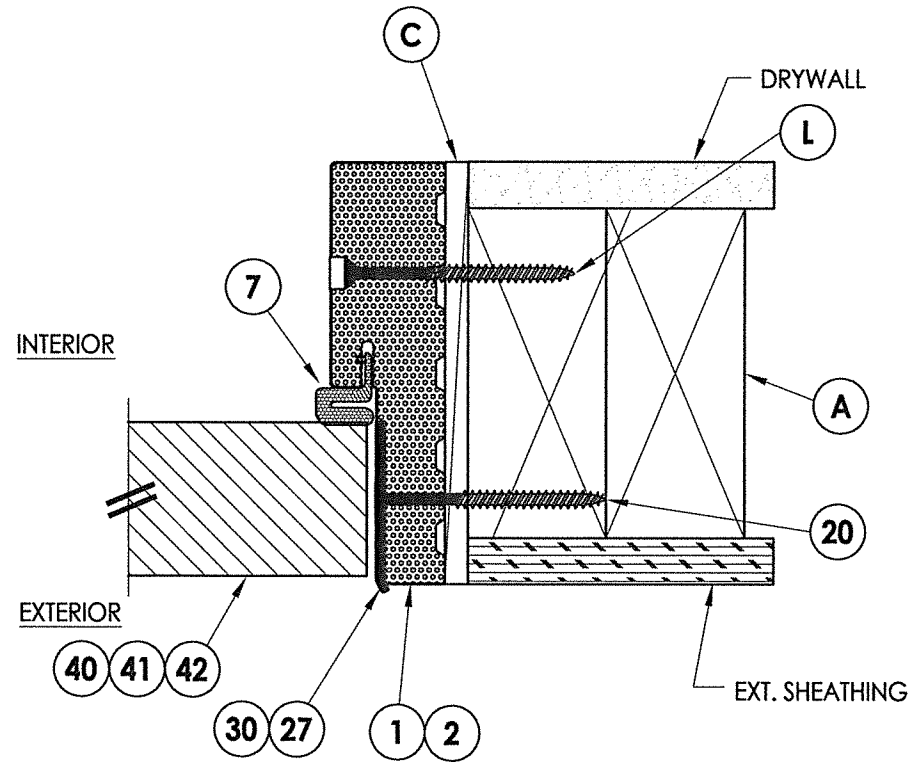
DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5209
SHEET 2 OF 9



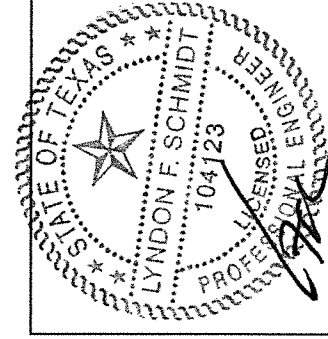
1 VERTICAL CROSS SECTION
4 Outswing shown (Inswing similar)



2 HORIZONTAL CROSS SECTION
4 Outswing shown (Inswing similar)



3 HORIZONTAL CROSS SECTION
4 Outswing shown (Inswing similar)



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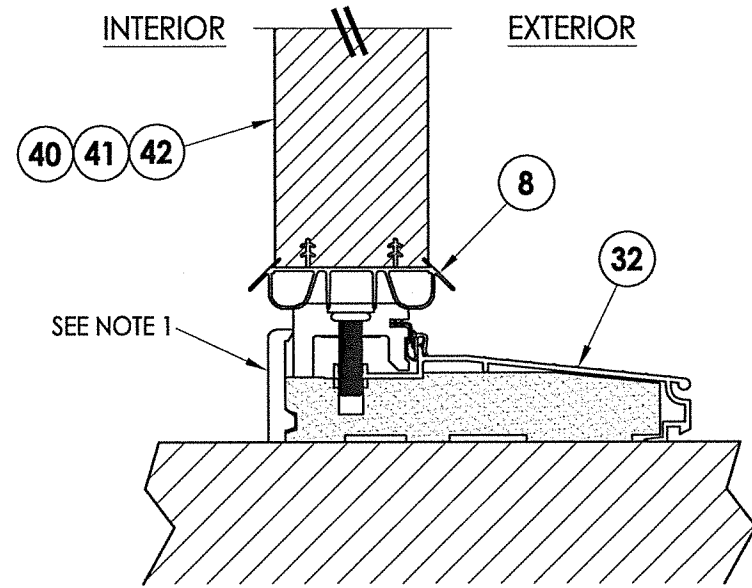
PRODUCT: THERMA-TRU
 FIBERGLASS DOOR
 PART OR ASSEMBLY:
 HORIZONTAL & VERTICAL
 CROSS SECTIONS (2X BUCK)

NO.	DATE	BY	REVISIONS

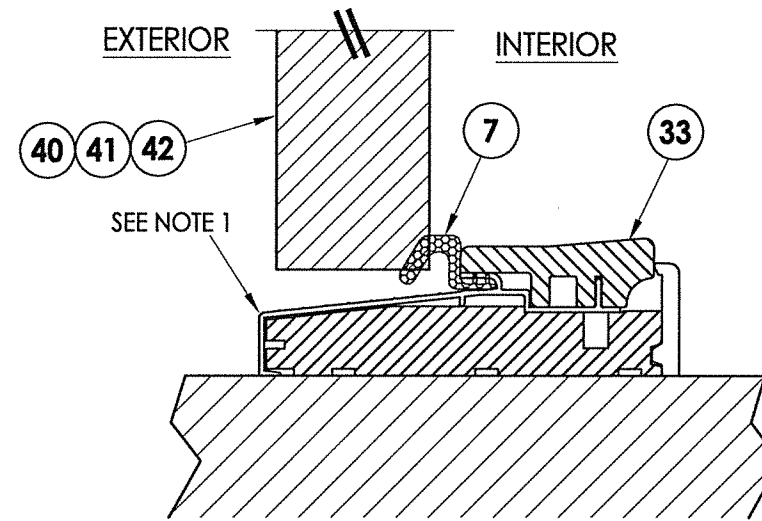
DATE: 5/27/21
 SCALE: N.T.S.
 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5209
 SHEET 4 OF 9

Notes:

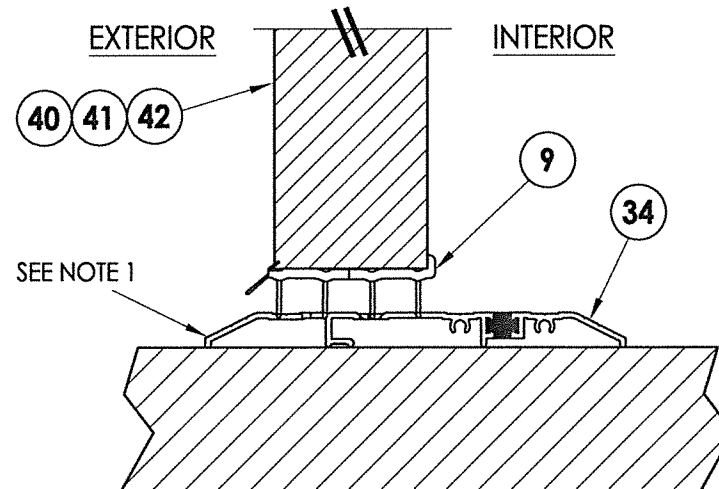
- 1. Sill Item #32 is attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
- Sill Item #33 is attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
- Sill Item #34 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.



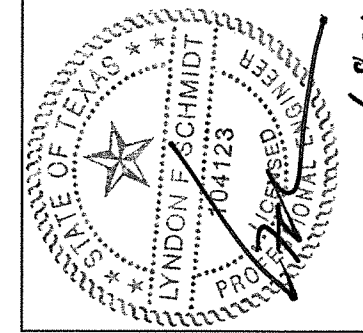
1 VERTICAL CROSS SECTION
5 Inswing Sill



2 VERTICAL CROSS SECTION
5 Outswing Sill



3 VERTICAL CROSS SECTION
5 Public Access Sill



6-8-21

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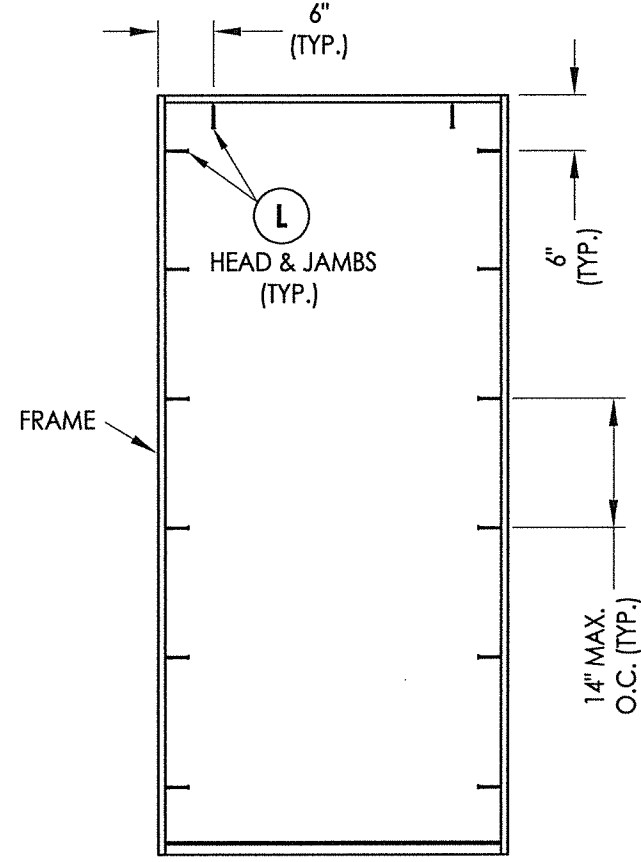
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197

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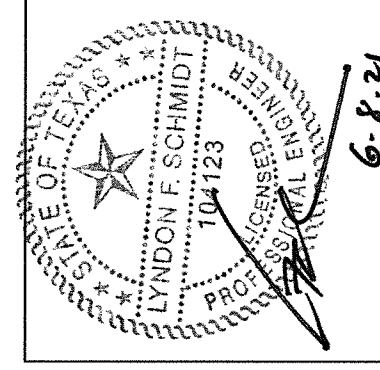
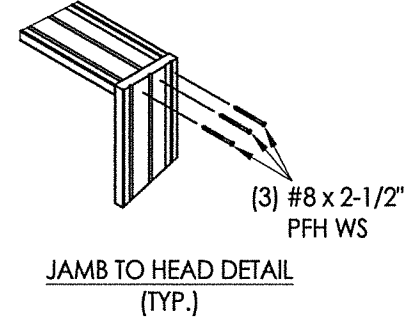
PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5209
SHEET 5 OF 9



FRAME ANCHORING



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

NO.	DATE	BY

DATE: 5/27/21

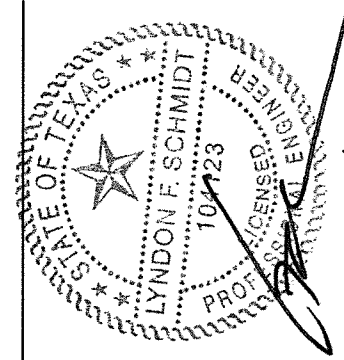
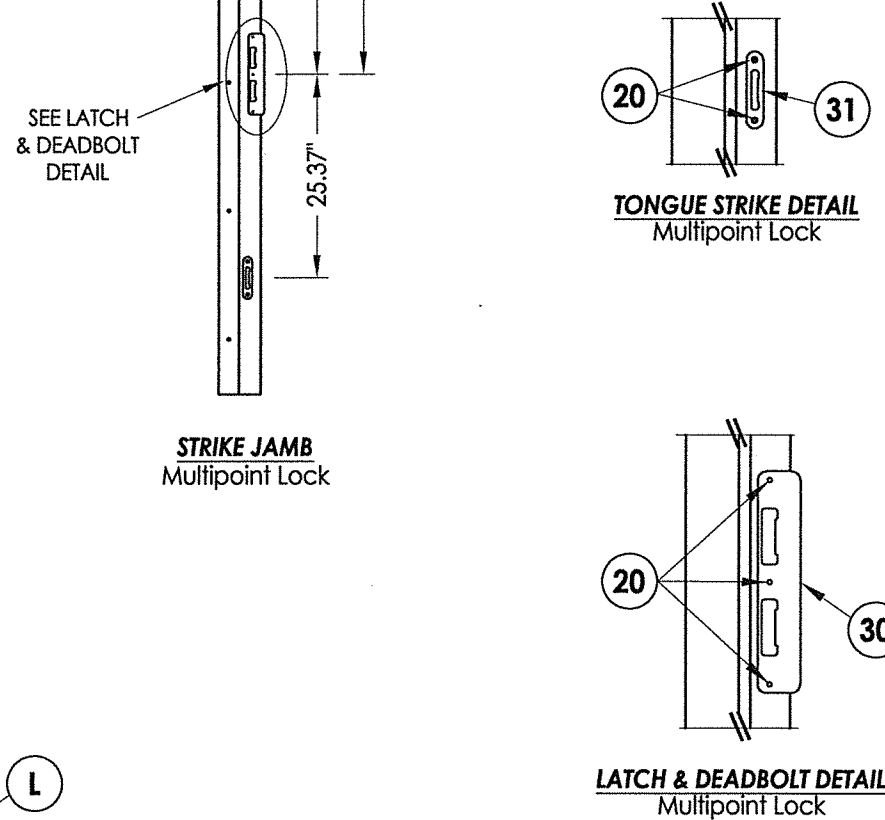
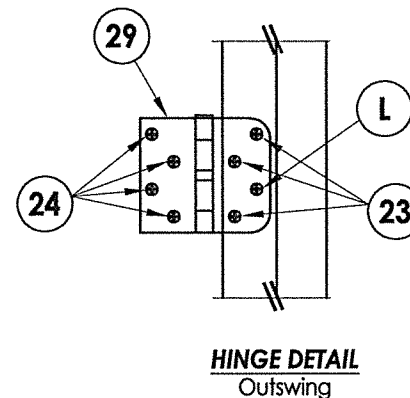
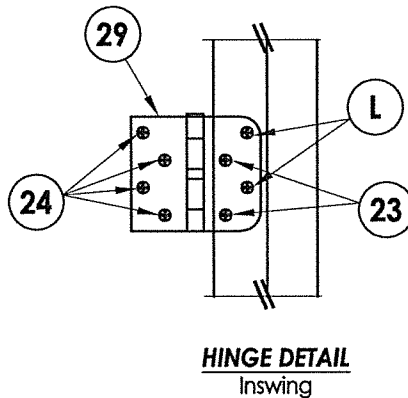
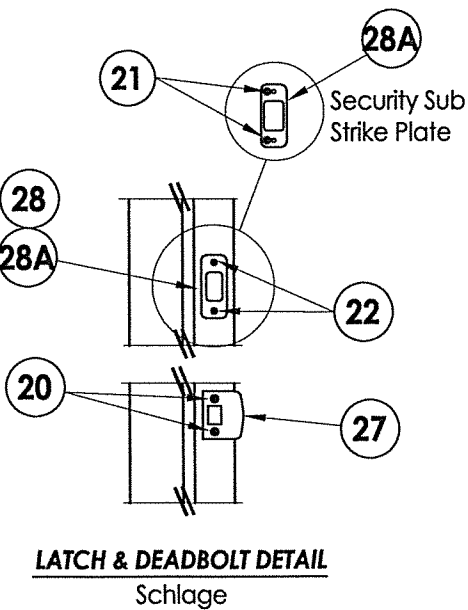
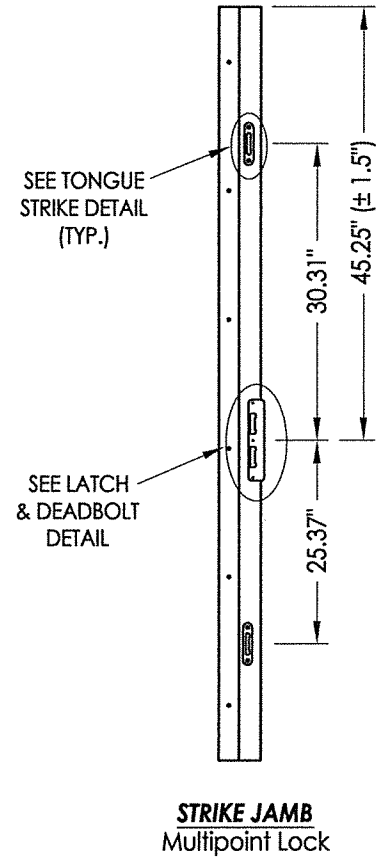
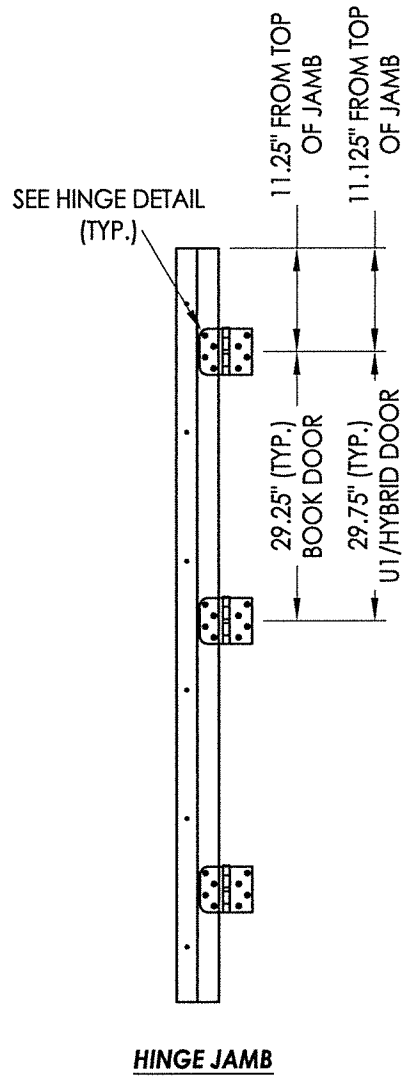
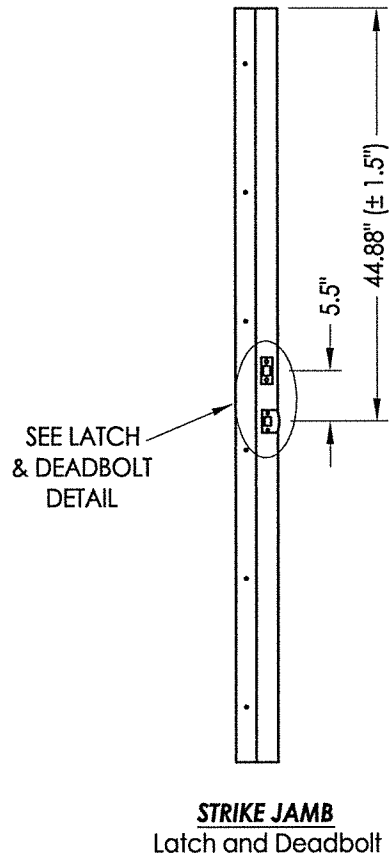
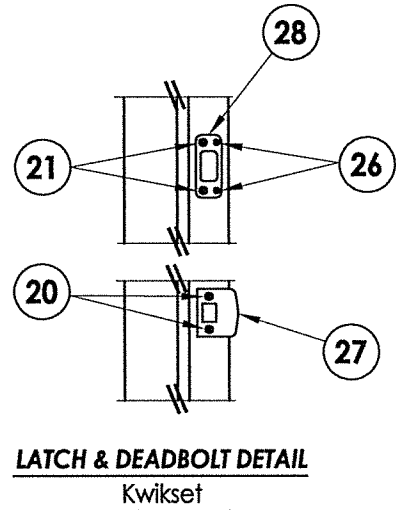
SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: TX-5209

SHEET 6 OF 9



6-P-21

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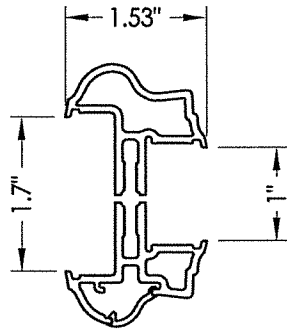
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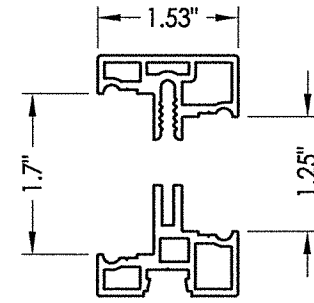
PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: HARDWARE DETAILS

NO.	DATE	REVISIONS	BY

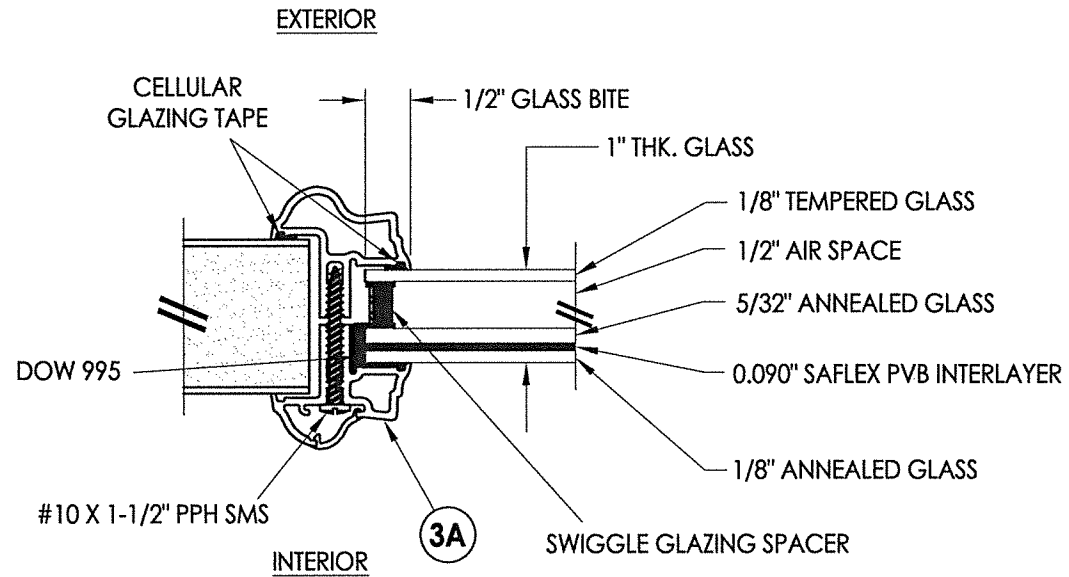
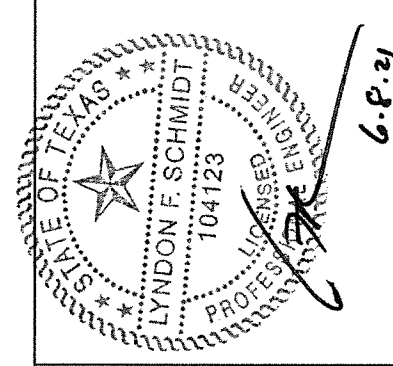
DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5209
SHEET 7 OF 9



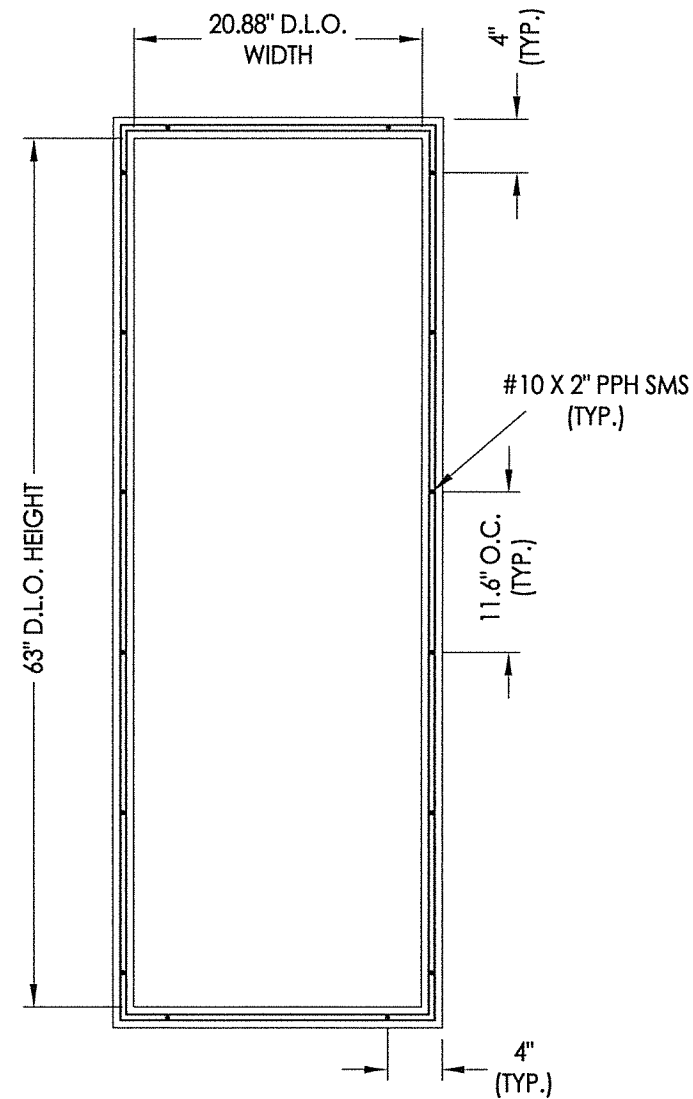
3A ALUMINUM FRAME
Aluminum Impact Lite Frame



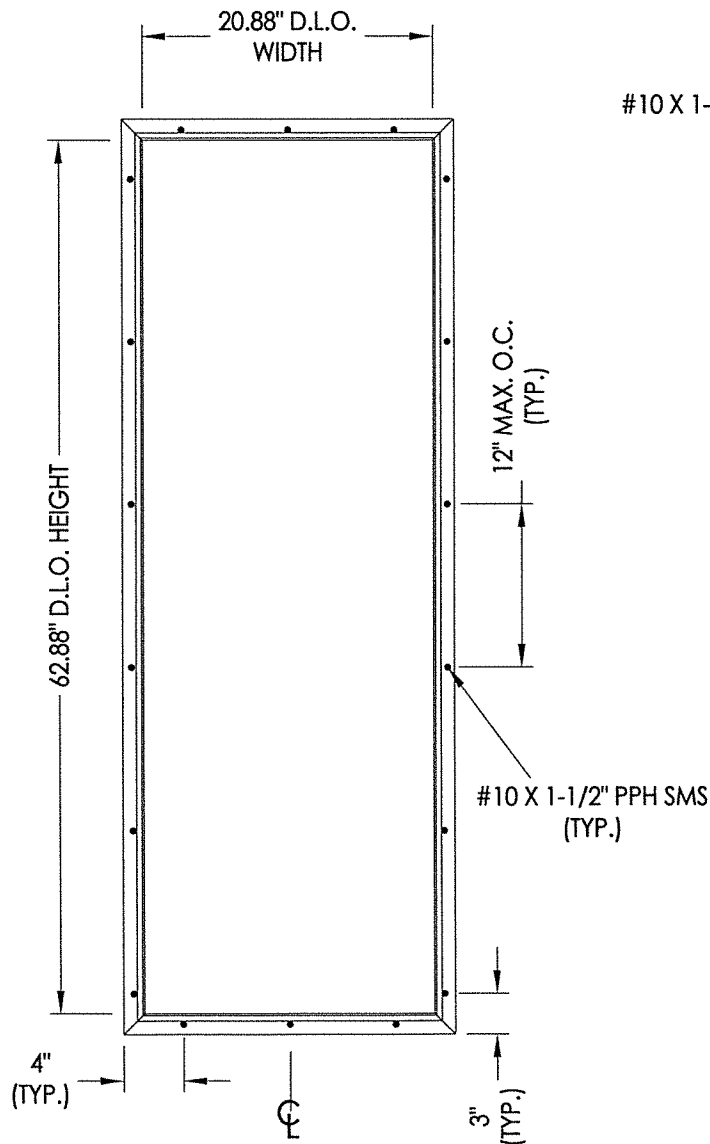
4A ALUMINUM FRAME
Aluminum Impact Lite Frame



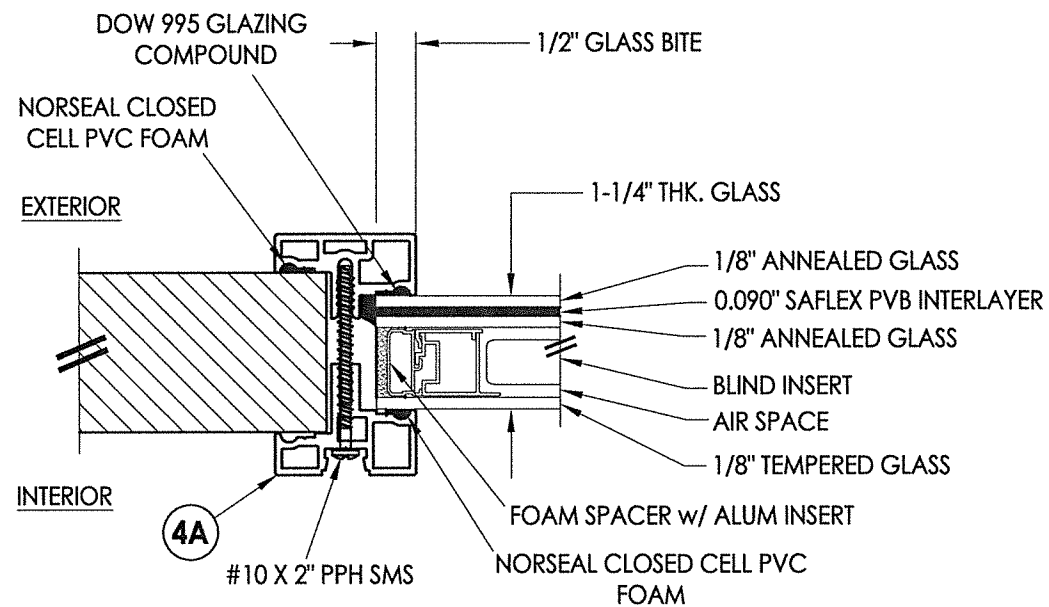
G1 GLAZING DETAIL
Aluminum Impact Lite Frame



4A ALUMINUM LITE FRAME
(w/ 1-1/4\"/>



3A ALUMINUM LITE FRAME
(w/ 1\"/>



G2 GLAZING DETAIL
1-1/4\"/>

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

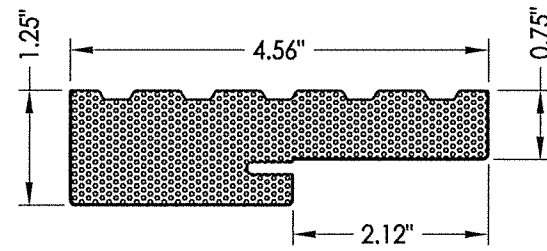
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
LITE FRAME
& GLAZING DETAILS

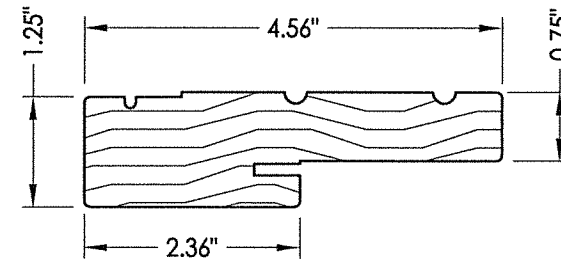
NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5209
SHEET 8 OF 9

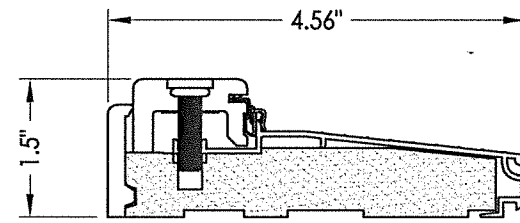
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#10 X 2" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	COMPOSITE JAMB	COMP
2	WOOD JAMB (FINGER JOINT PINE)	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	SWEEP (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
30	LATCH & DEADBOLT STRIKE PLATE	STEEL
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	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)	-



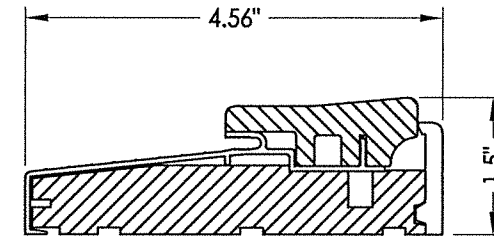
1 COMPOSITE JAMB



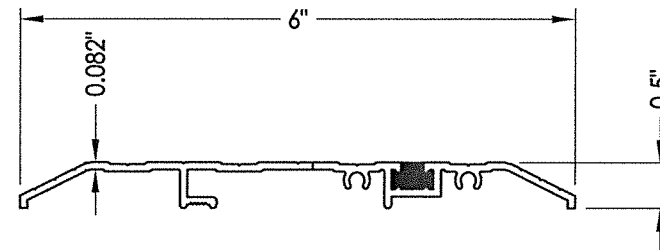
2 WOOD JAMB



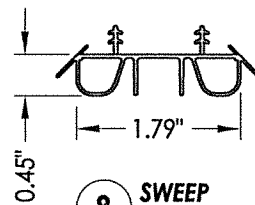
32 INSWING THRESHOLD
Adjustable Composite Sill



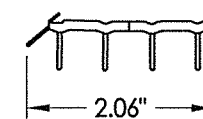
33 OUTSWING THRESHOLD
Composite Sill



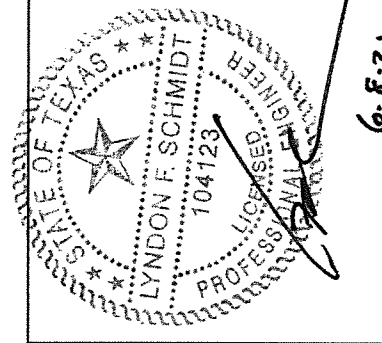
34 PUBLIC ACCESS THRESHOLD



8 SWEEP



9 SWEEP



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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 5/27/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5209
SHEET 9 OF 9