

THERMA-TRU® DOORS

Fiber-Classic® & Smooth-Star®

WOOD OR COMPOSITE EDGE GLAZED FIBERGLASS SINGLE DOOR w/ DIRECT SET SIDELITE(S)

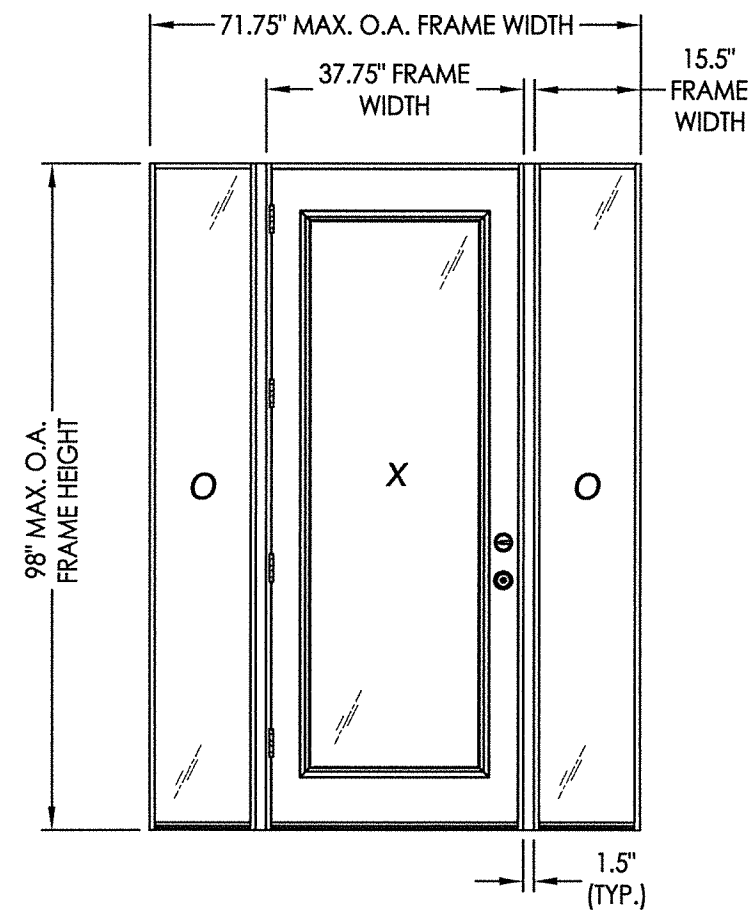
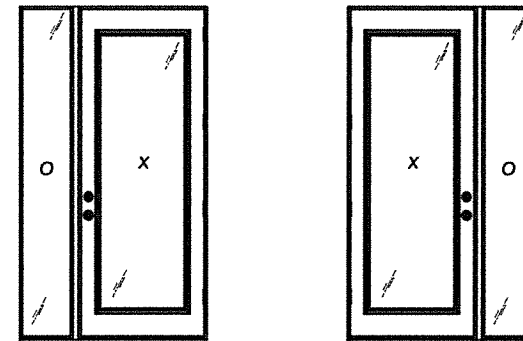
INSWING
"NON-IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

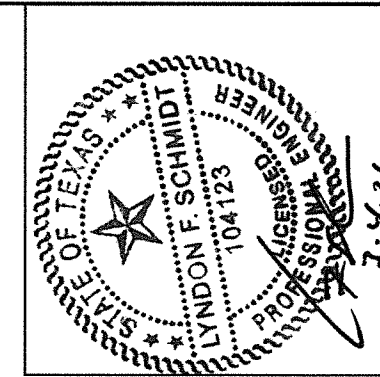
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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. 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.
5. Fiber-Classic and Smooth-Star Door and Sidelite panels require the use of "J" part numbers. These door and sidelite panels must be stained or painted within six months of installation.

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6	Horizontal Cross Sections		



CONFIGURATION	DOOR GLAZING	2X REINFORCEMENT REQUIRED	DESIGN PRESSURE (PSF) w/ FJ PINE JAMBS		DESIGN PRESSURE (PSF) w/ COMPOSITE JAMBS	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	LIP LITE	NO	+35.0	-40.0	+30.0	-40.0
		YES	+35.0	-40.0	+35.0	-40.0
	FLUSH	NO	+30.0	-45.0	+30.0	-40.0
		YES	+30.0	-45.0	+50.0	-50.0



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: 1/06/21

SCALE: N.T.S.

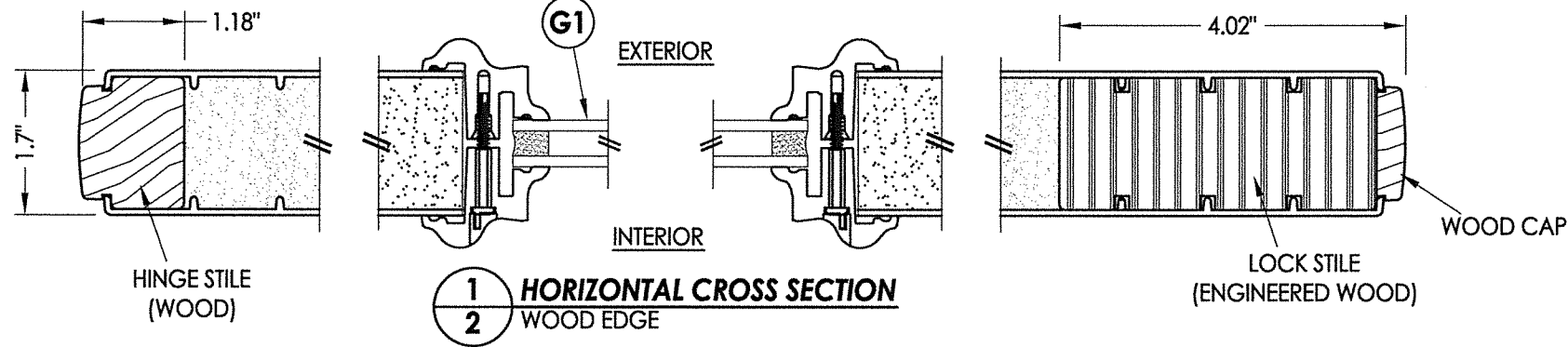
DWG. BY: RW

CHK. BY: LFS

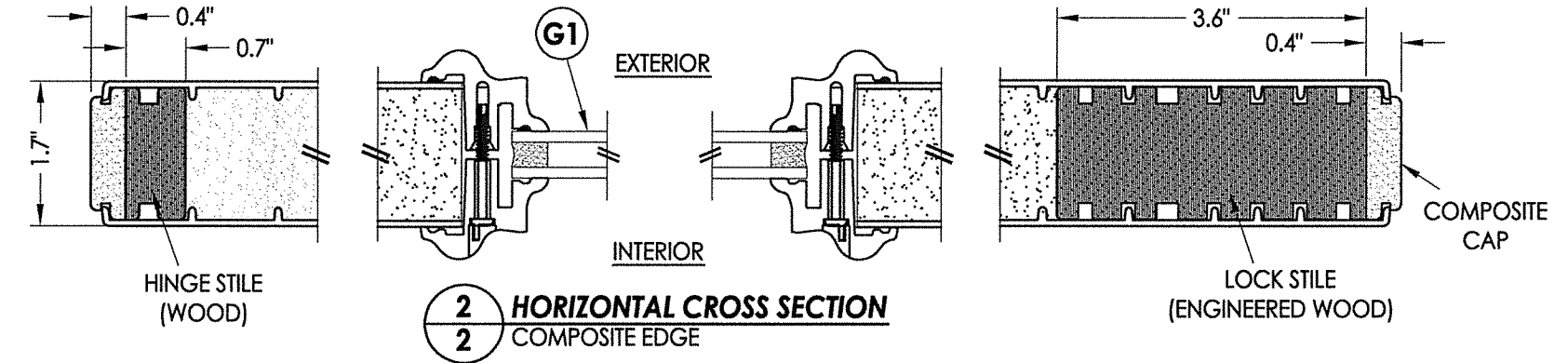
DRAWING NO.: TX-5144

SHEET 1 OF 11

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR XXX - 6'8, 7' & 8' Glazed FG NonImp IS Dir Set Sidelites (TX 5140-5145)\C - Drawings\TX-5144-45.dwg

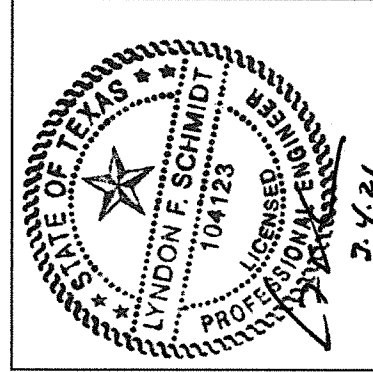


1 HORIZONTAL CROSS SECTION
2 WOOD EDGE



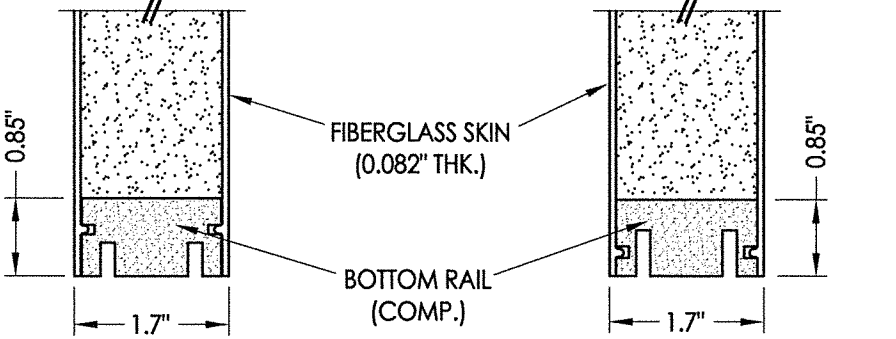
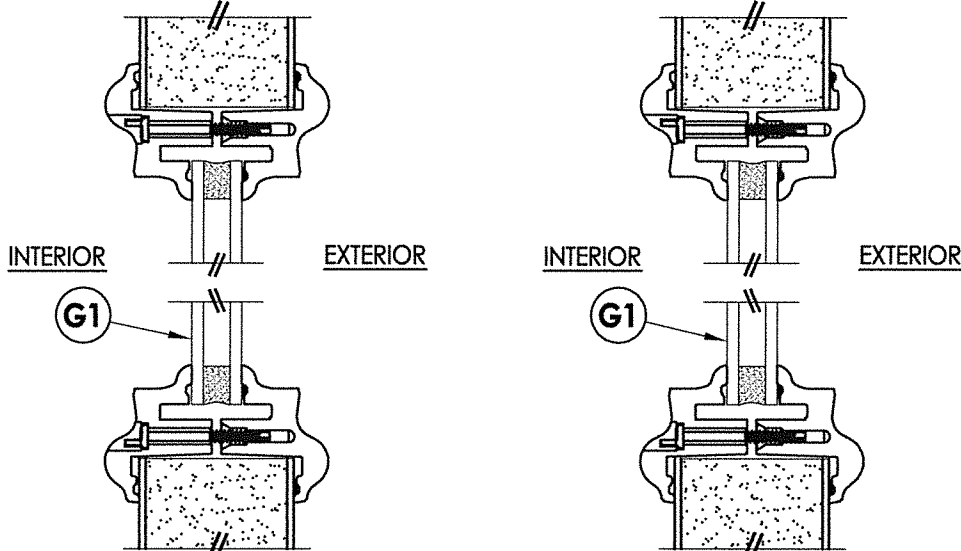
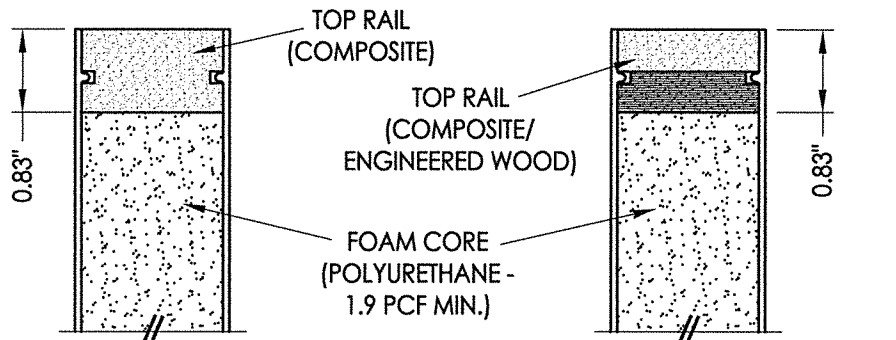
2 HORIZONTAL CROSS SECTION
2 COMPOSITE EDGE

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



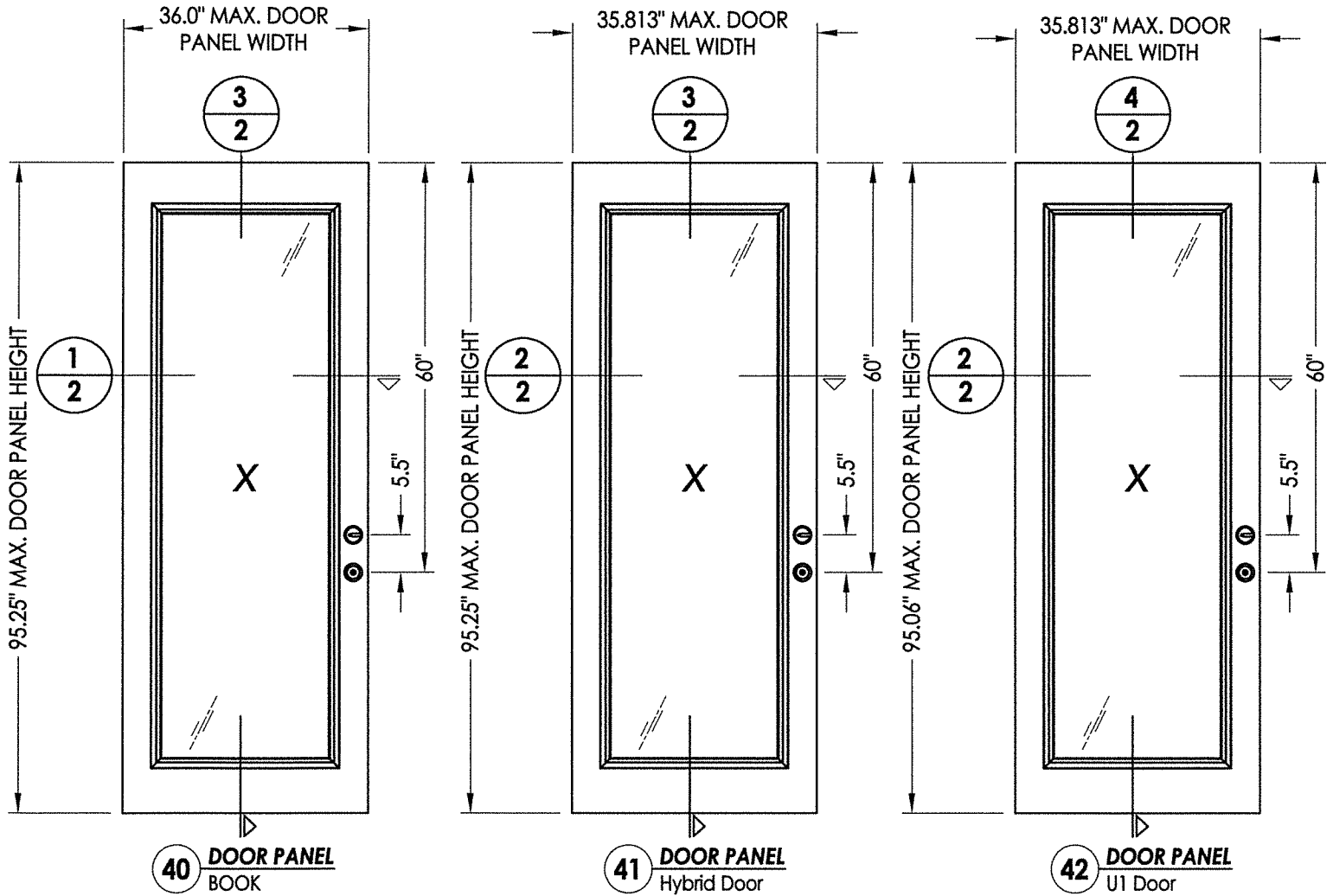
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3 VERTICAL CROSS SECTION
2 WOOD EDGE

4 VERTICAL CROSS SECTION
2 COMPOSITE EDGE



40 DOOR PANEL
BOOK

41 DOOR PANEL
Hybrid Door

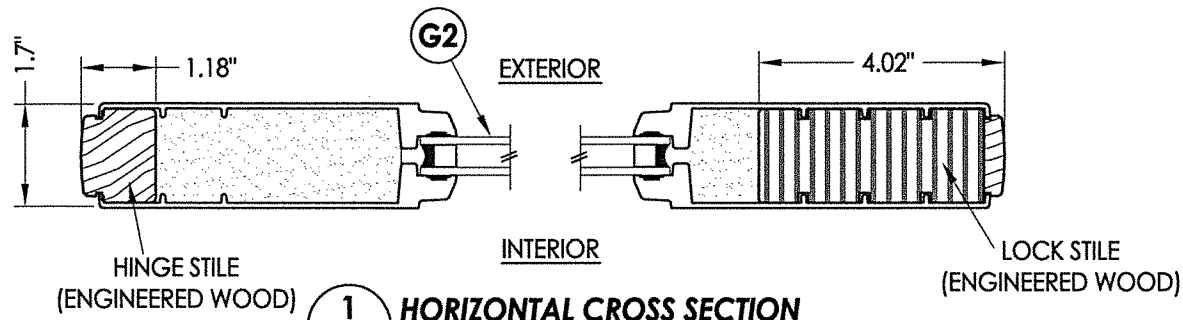
42 DOOR PANEL
U1 Door

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

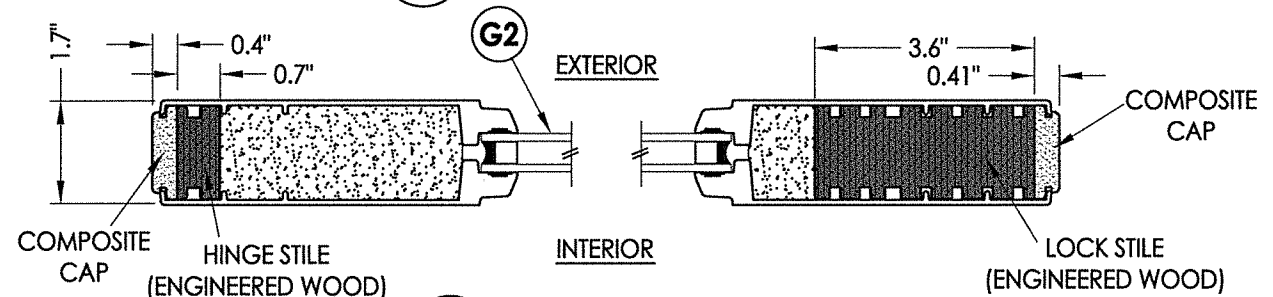
NO.	DATE	BY

DATE: 1/06/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5144
SHEET 2 OF 11

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR XXX - 6'8, 7' & 8' Glazed FG NonImp IS Dir Set Sidelites (TX 5140-5145)\C - Drawings\TX-5144-45.dwg

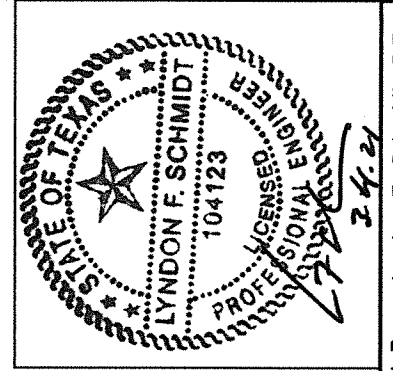


1
3 **HORIZONTAL CROSS SECTION**
WOOD EDGE



2
3 **HORIZONTAL CROSS SECTION**
COMPOSITE EDGE

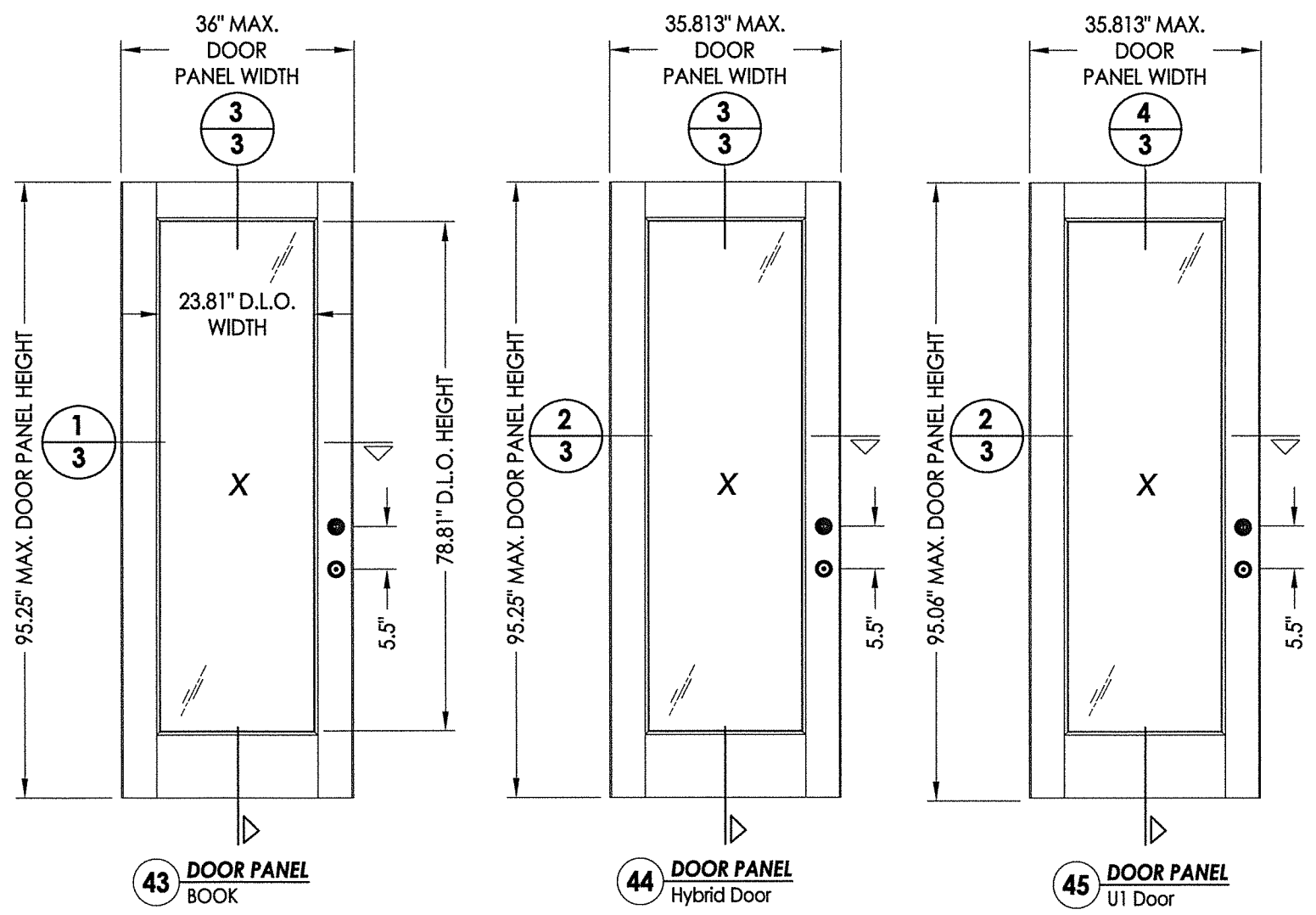
NOTE: BOOK, HYBRID & U1 DOORS
MAY EACH BE FABRICATED AS WOOD
OR COMPOSITE EDGE DOORS.



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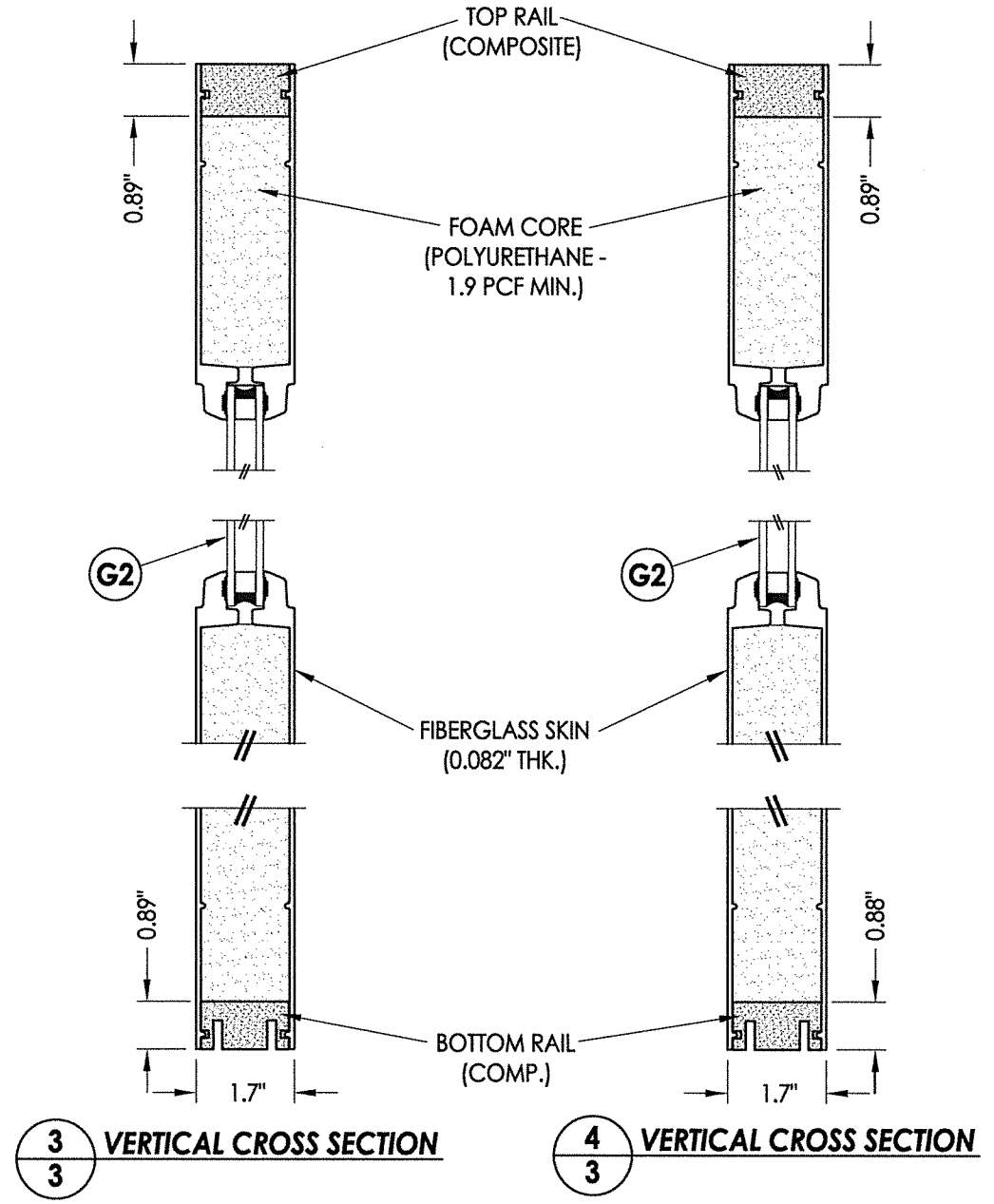
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CERTIFICATE OF REGISTRATION # F-11852



43 **DOOR PANEL**
BOOK

44 **DOOR PANEL**
Hybrid Door

45 **DOOR PANEL**
U1 Door



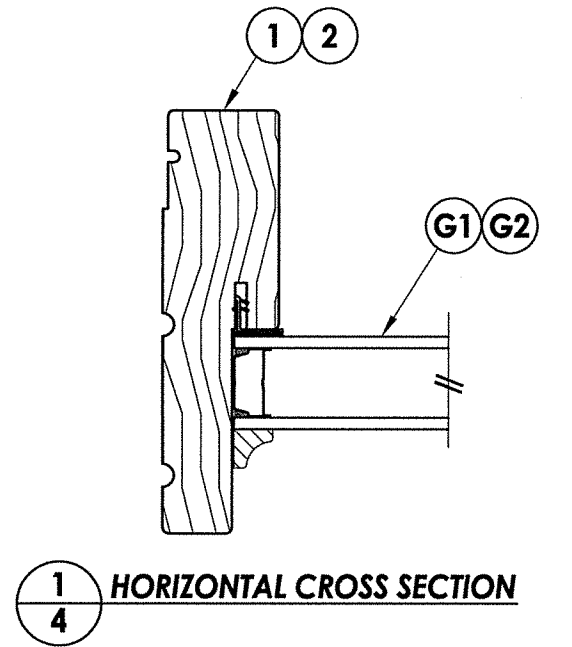
3
3 **VERTICAL CROSS SECTION**

4
3 **VERTICAL CROSS SECTION**

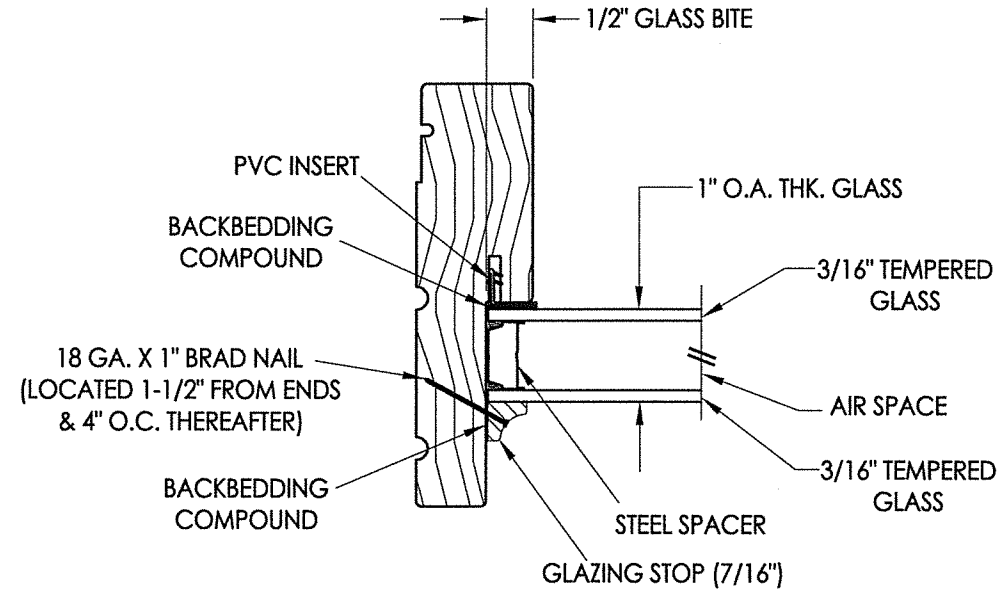
PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: DOOR PANEL DETAILS	
NO.	DATE
BY	REVISIONS
DATE: 1/06/21	
SCALE: N.T.S.	
DWG. BY: RW	
CHK. BY: LFS	
DRAWING NO.: TX-5144	
SHEET 3 OF 11	

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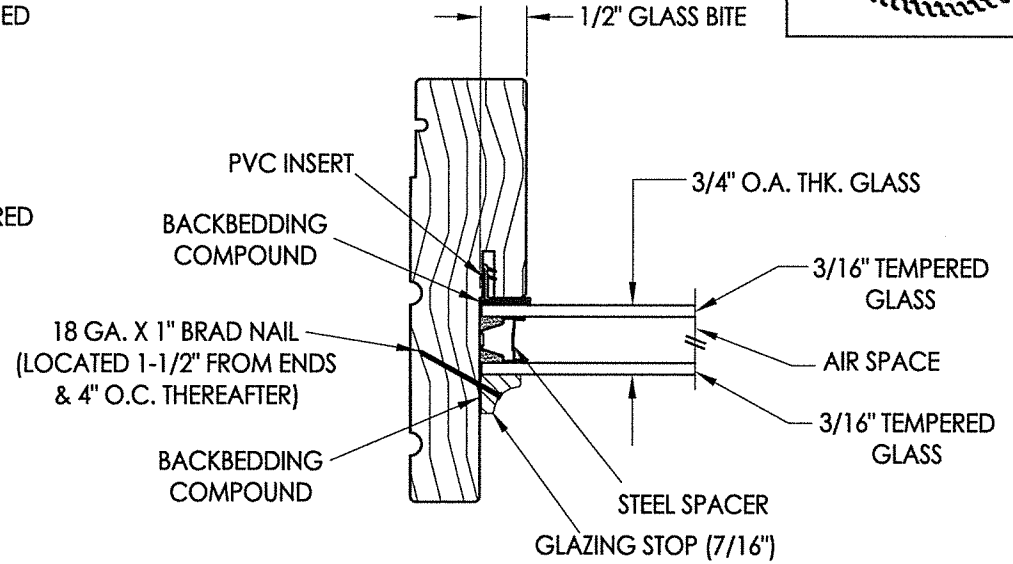
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR XXX - 6'8, 7' & 8' Glazed FG NonImp IS Dir Set Sidelites (TX 5140-5145)\C - Drawings\TX-5144-45.dwg



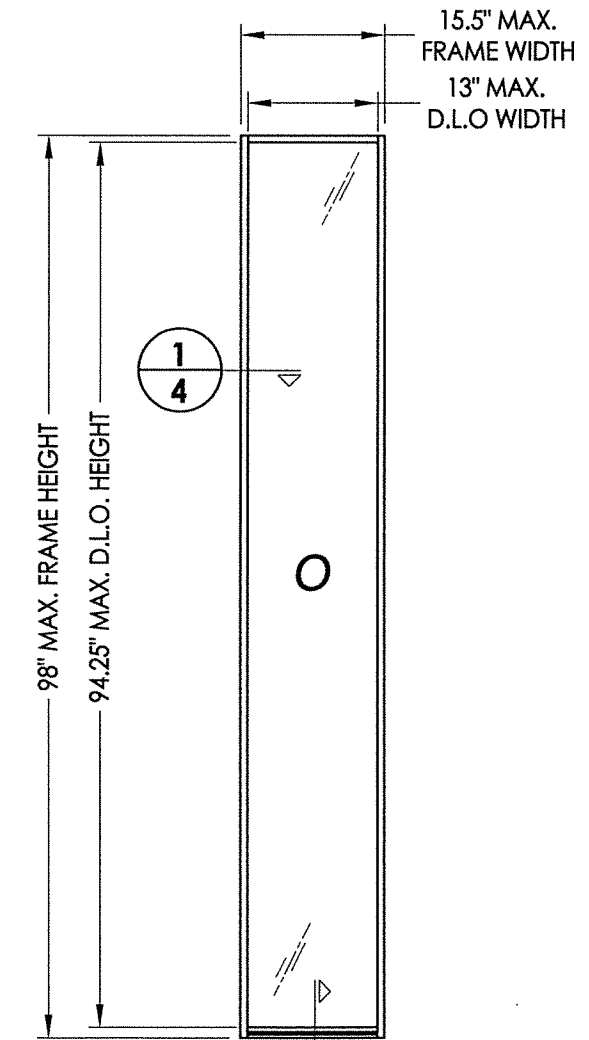
1
4 HORIZONTAL CROSS SECTION



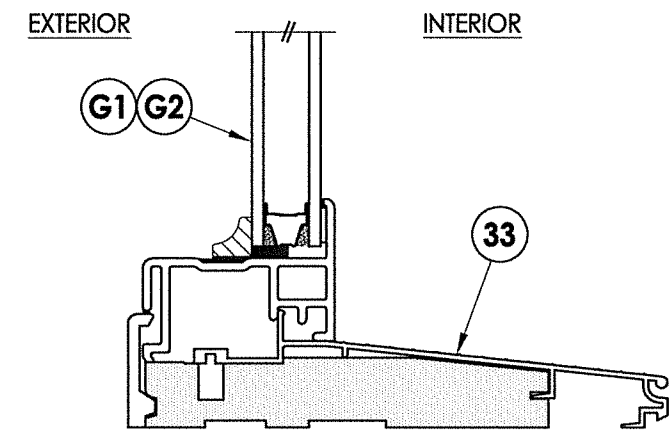
G1 GLAZING DETAIL
1" Insulated Glass



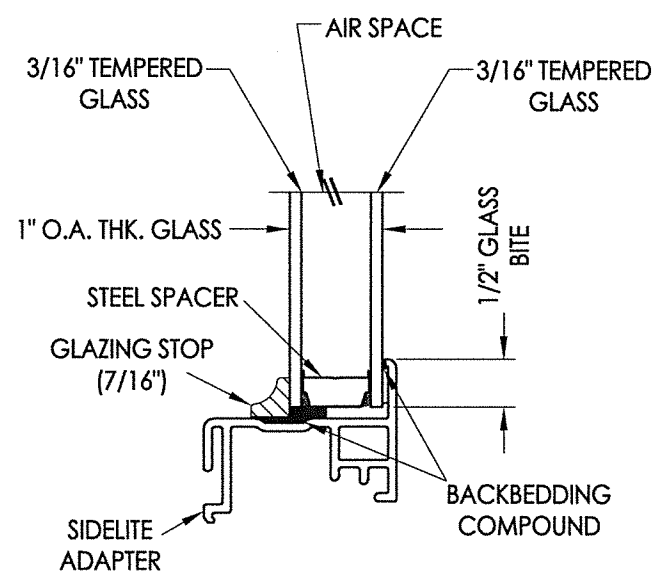
G2 GLAZING DETAIL
3/4" Insulated Glass



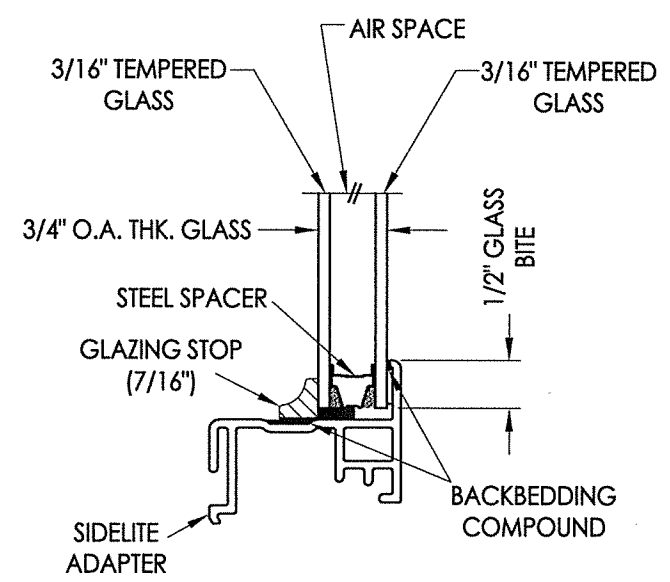
50 SIDELITE PANEL



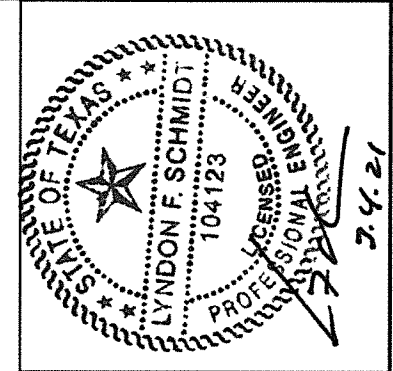
2
4 VERTICAL CROSS SECTION



G1 GLAZING DETAIL
1" Insulated Glass



G2 GLAZING DETAIL
3/4" Insulated Glass

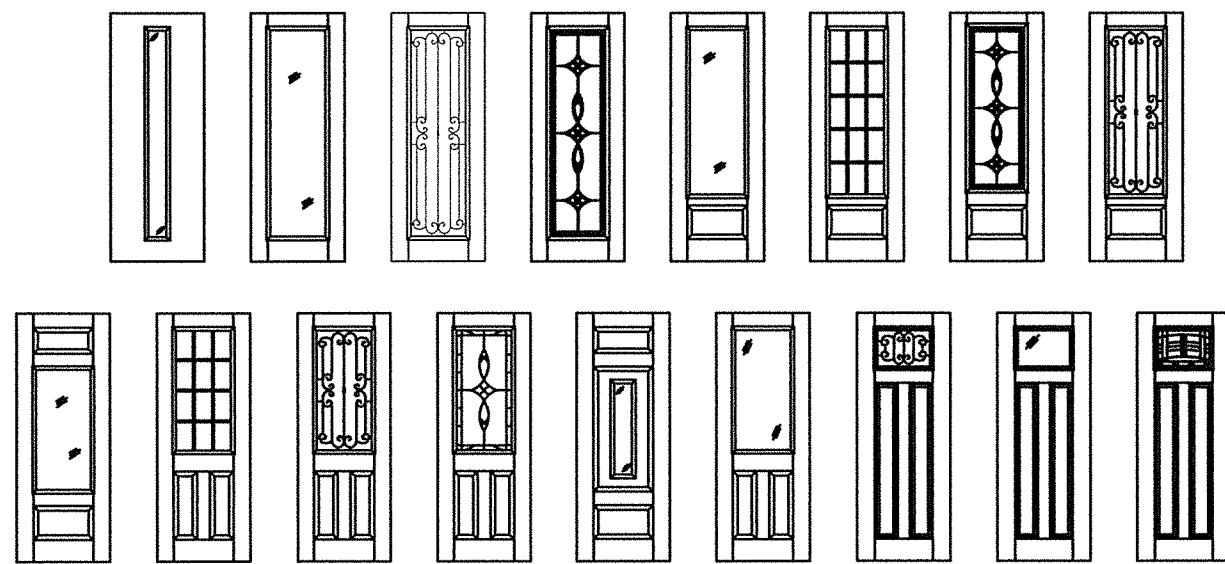
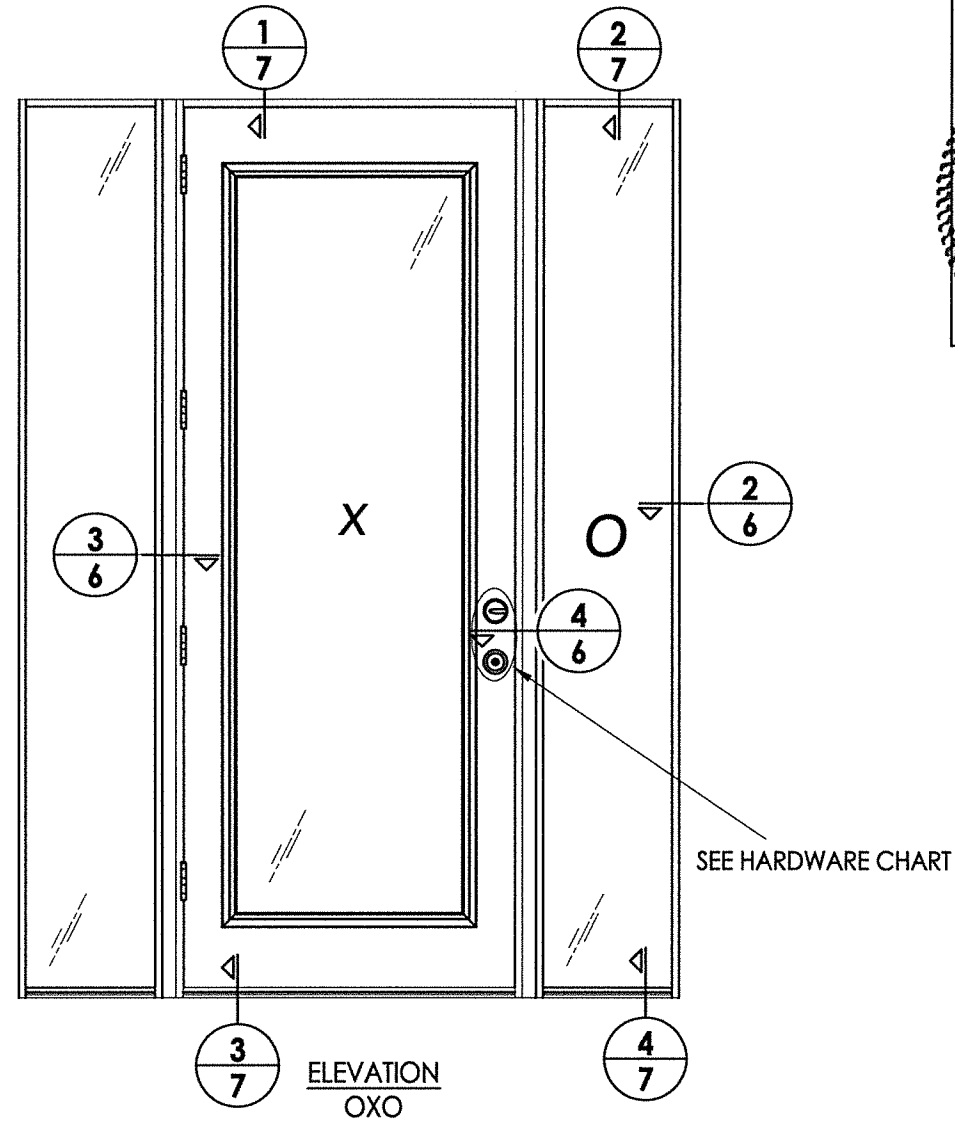
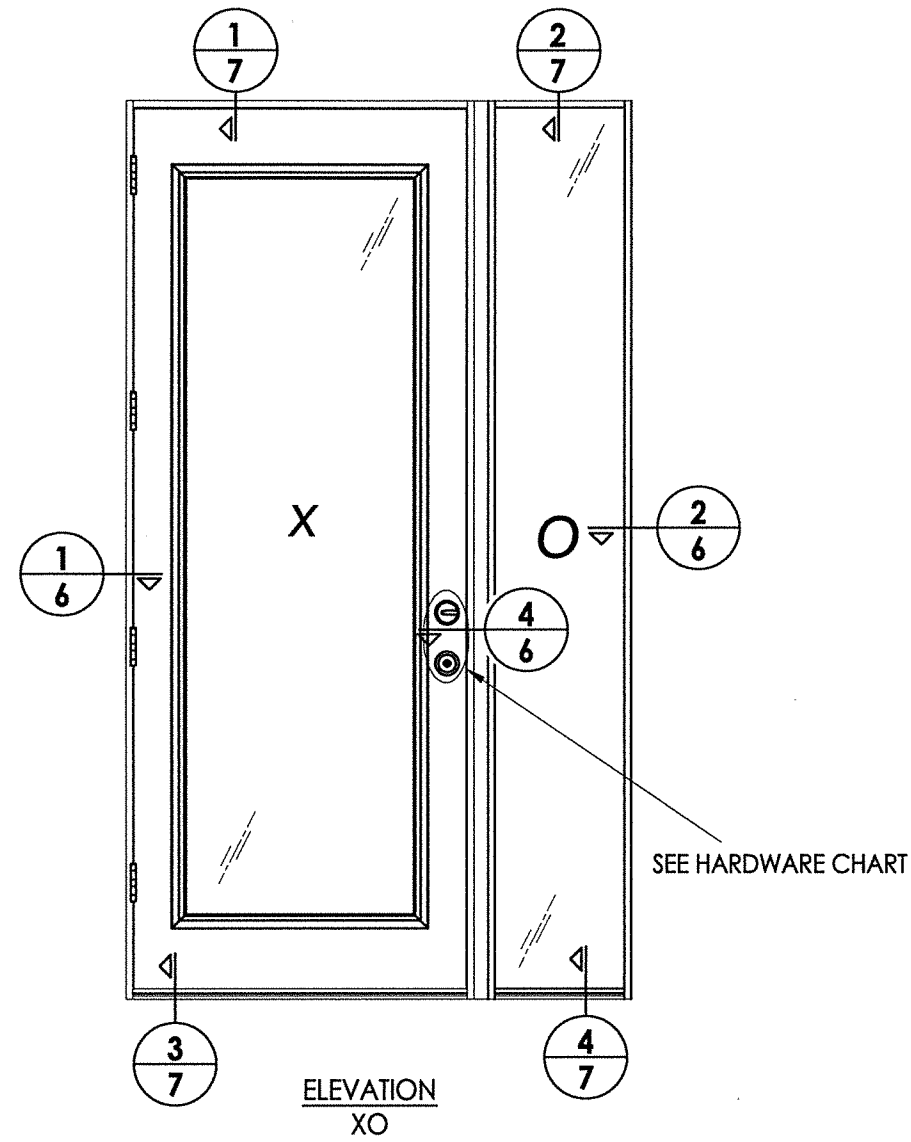


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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: SIDELITE PANEL DETAILS

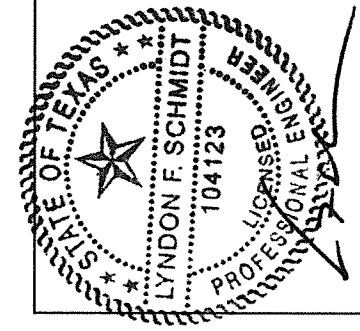
NO.	DATE	BY

DATE: 1/06/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5144
SHEET 4 OF 11



Fiber-Classic/Smooth-Star Door Panel Options
 Panel options shown are for illustration and are representative only
 (similar glazed panel configurations are allowed)

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



7.4.21

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 Phone No.: 813.659.9197

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

PRODUCT: THERMA-TRU
 FIBERGLASS DOOR

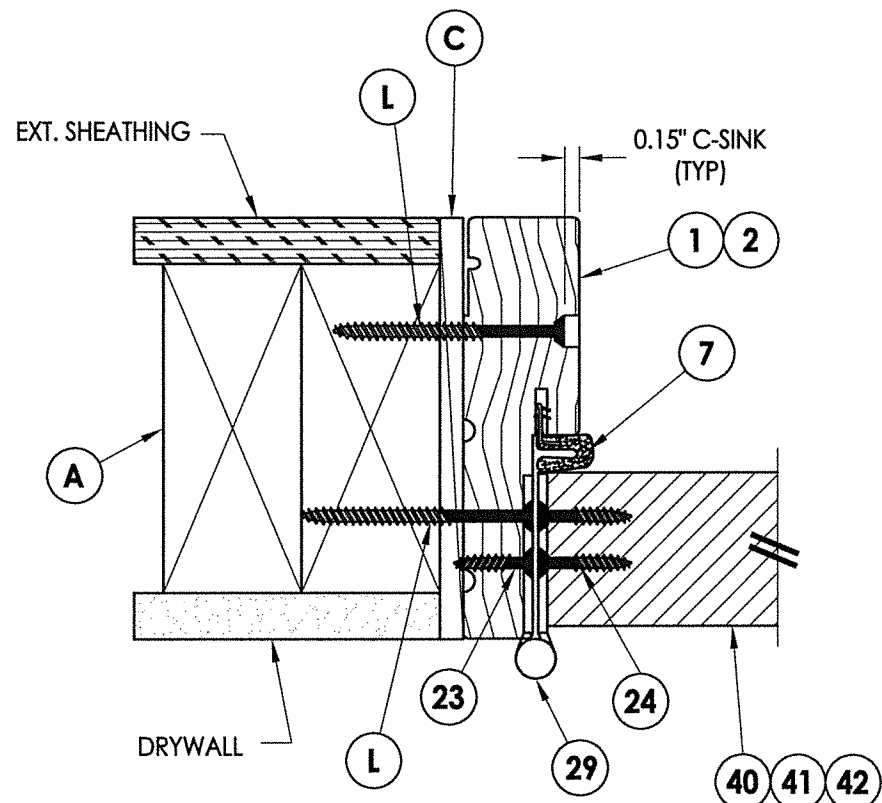
PART OR ASSEMBLY:
 ELEVATIONS

NO.	DATE	BY	REVISIONS

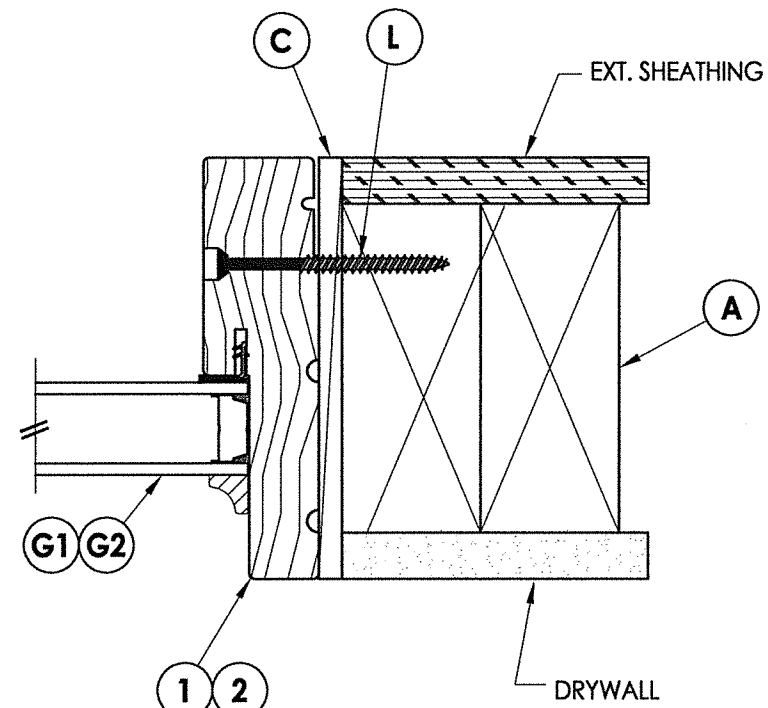
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 SCALE: N.T.S.
 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-5144

SHEET 5 OF 11

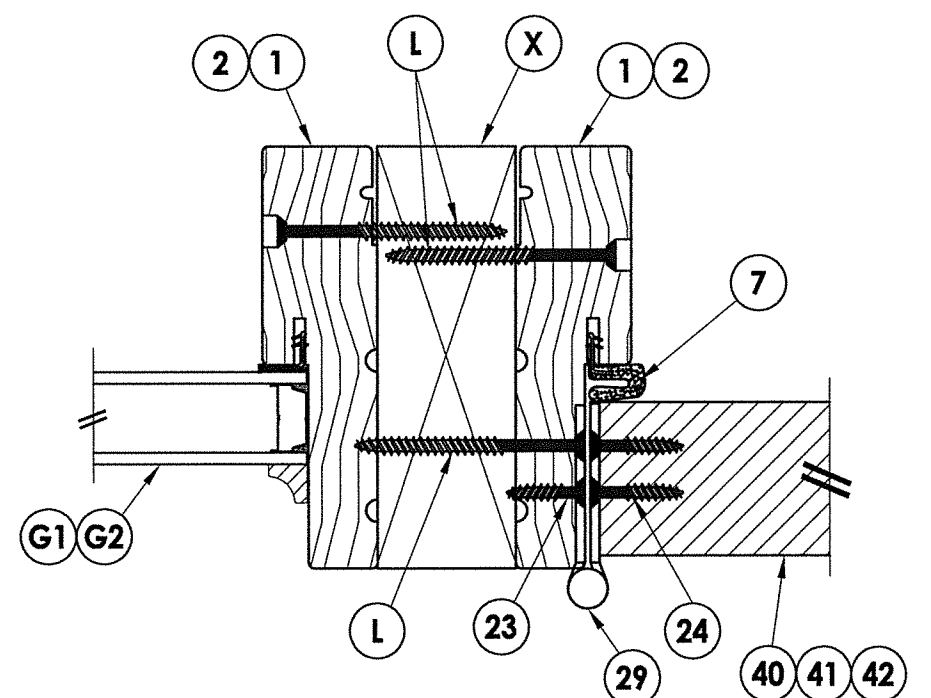
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR XXX - 6'8, 7' & 8' Glazed FG NonImp IS Dir Set Sidelites (TX 5140-5145)\C - Drawings\TX-5144-45.dwg



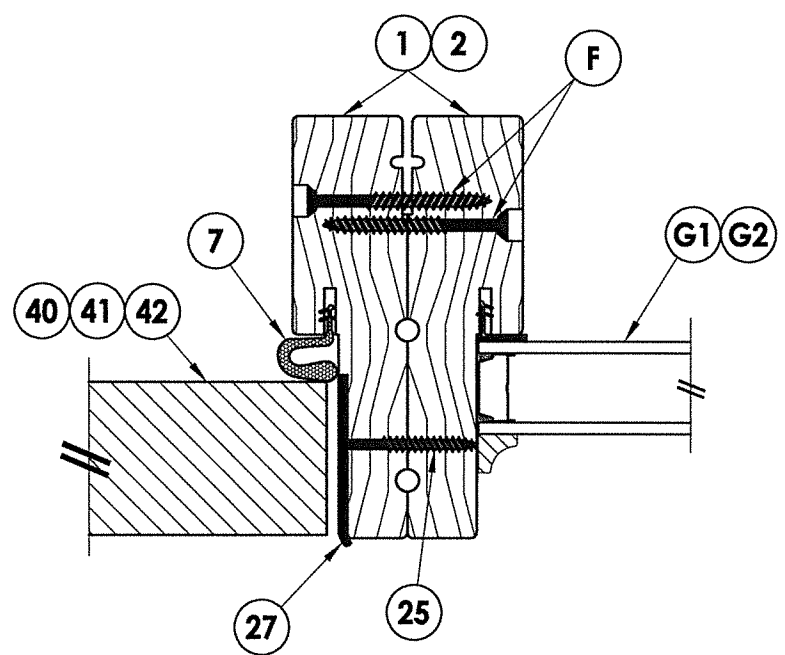
1
6 HORIZONTAL CROSS SECTION



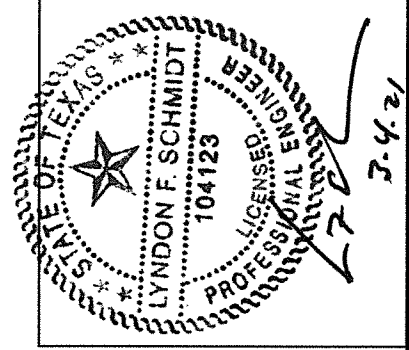
2
6 HORIZONTAL CROSS SECTION



3
6 HORIZONTAL CROSS SECTION
Shown w/ 2X Reinforcement



4
6 HORIZONTAL CROSS SECTION
Shown w/ Back-to-Back Jambs



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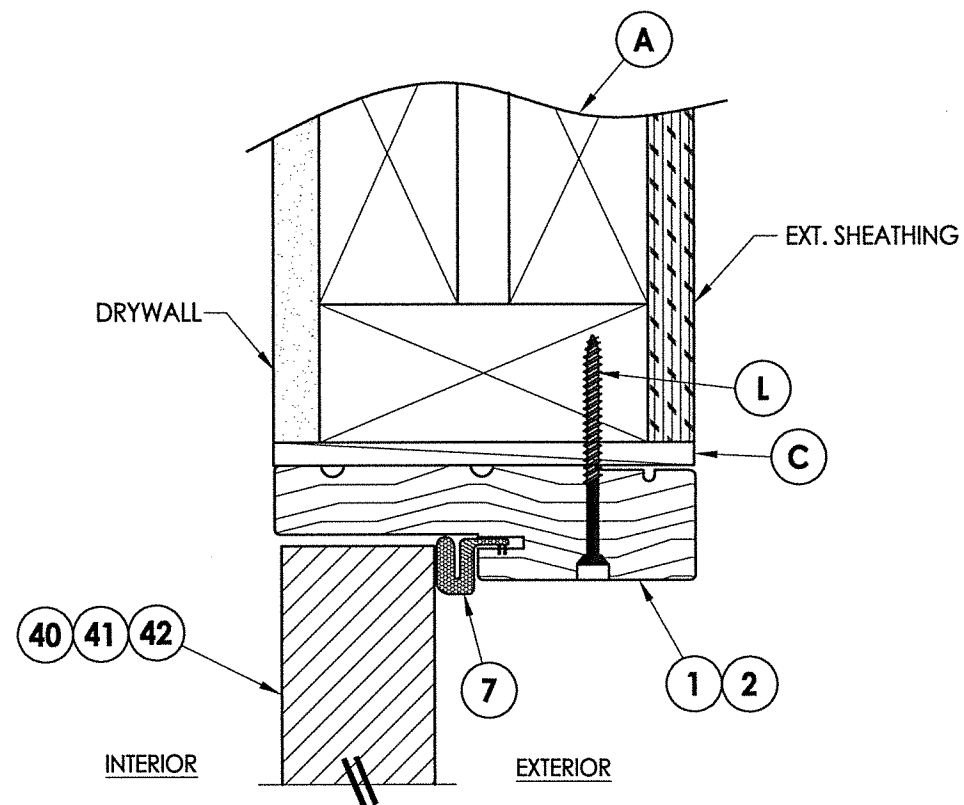
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

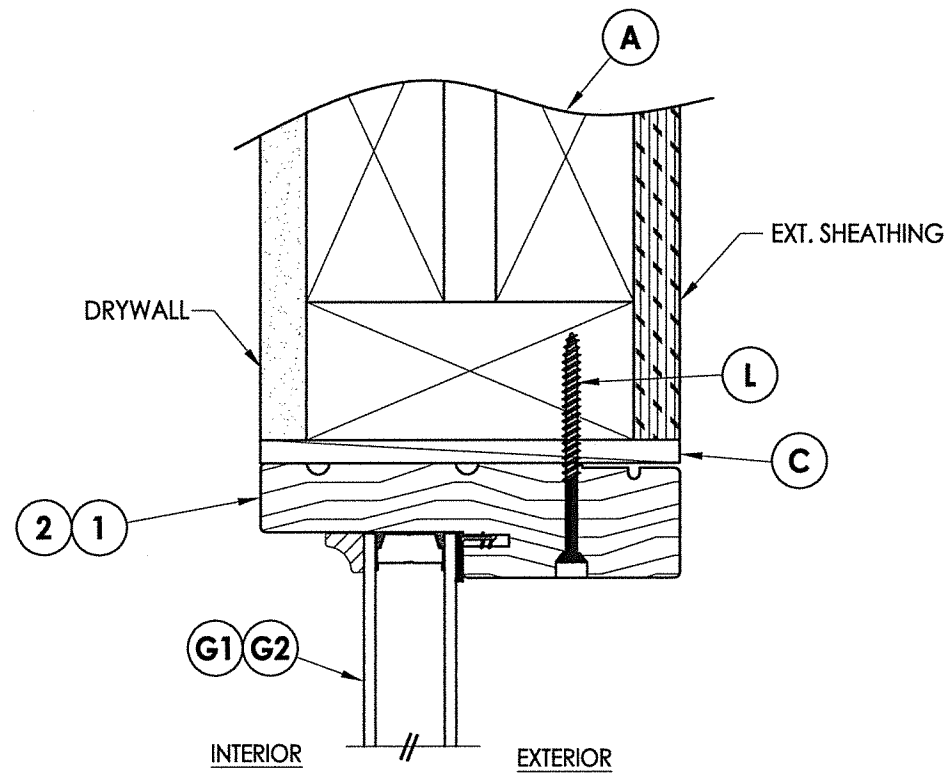
PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	BY

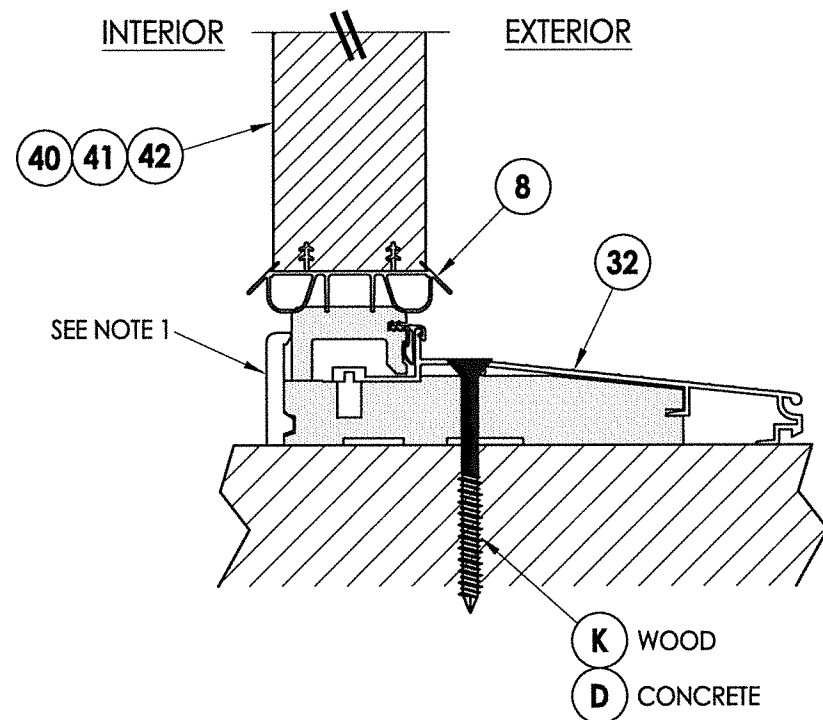
DATE: 1/06/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5144
SHEET 6 OF 11



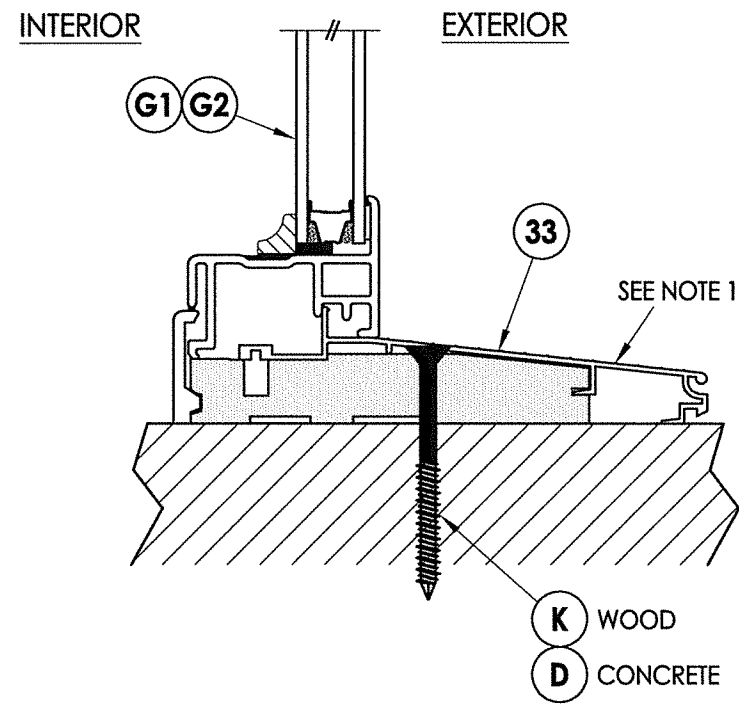
1
7 VERTICAL CROSS SECTION



2
7 VERTICAL CROSS SECTION

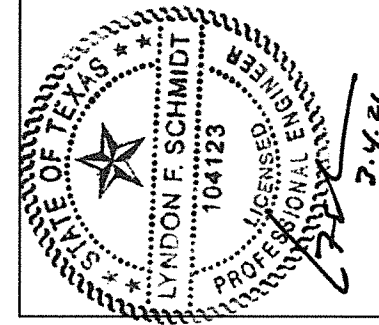


3
7 VERTICAL CROSS SECTION
Inswing Sill



4
7 VERTICAL CROSS SECTION
Inswing Sill

Note:
1. Sill Item #'s 32 & 33 are attached to jambs w/ (3) #8 X 2-1/2" FH screws at each end.



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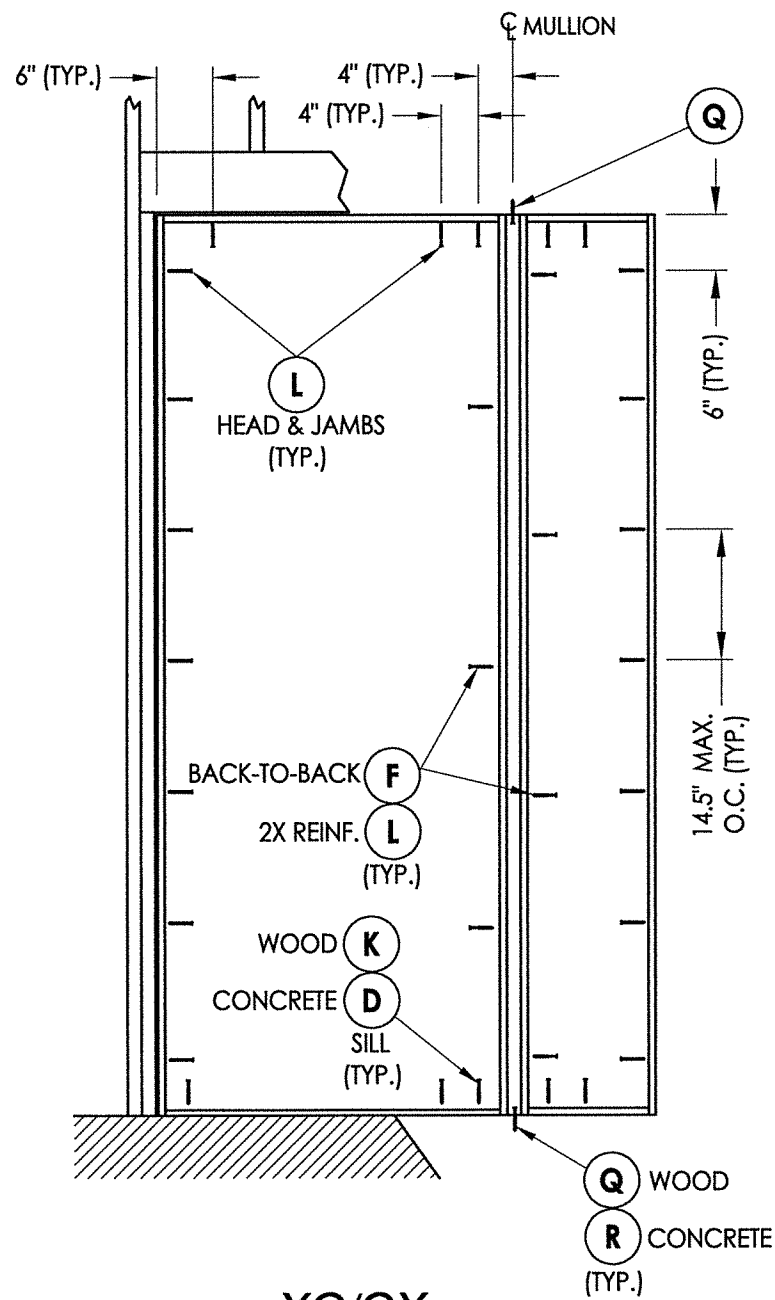
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P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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

NO.	DATE	BY	REVISIONS

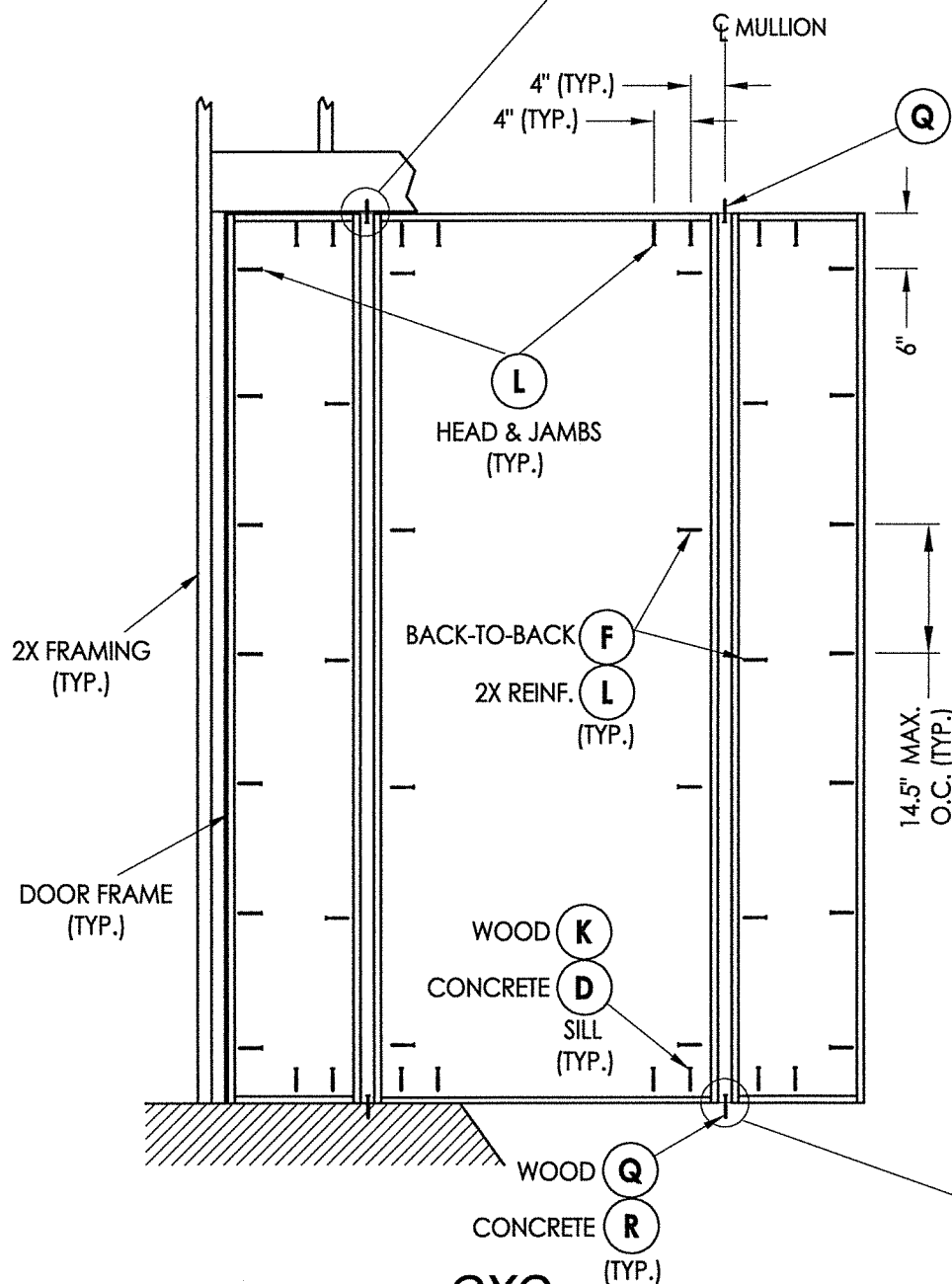
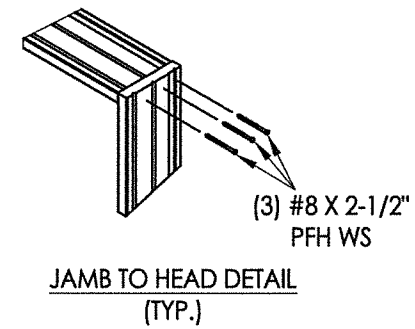
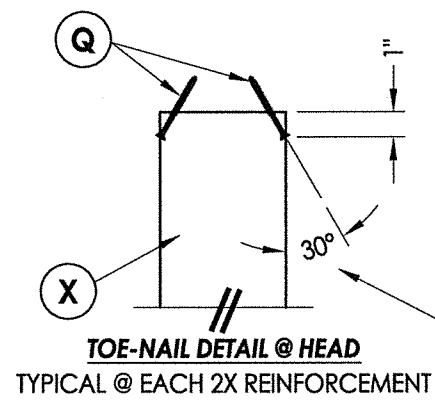
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SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5144
SHEET 7 of 11

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR XXX - 6'8, 7' & 8' Glazed FG NonImp IS Dir Set Sidelites (TX 5140-5145)\C - Drawings\TX-5144-45.dwg

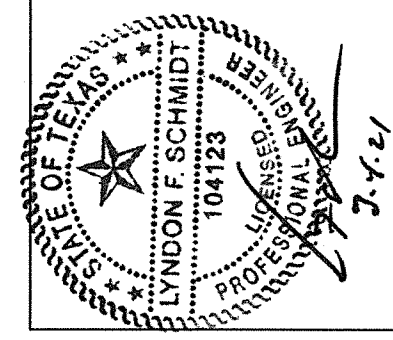
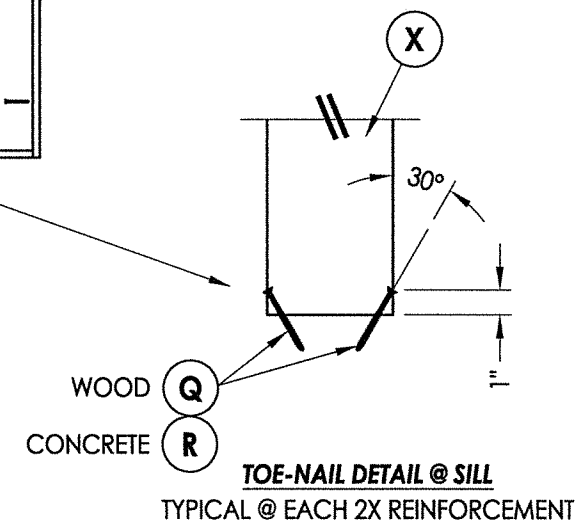


XO/OX

FRAME ANCHORING



OXO



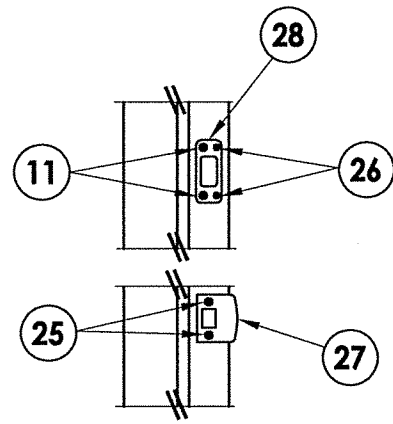
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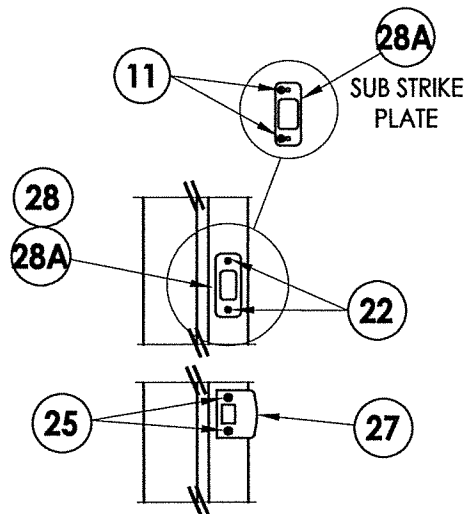
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:	FRAME ANCHORING	
NO.	DATE	BY
REVISIONS		

DATE: 1/06/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5144
SHEET 8 of 11

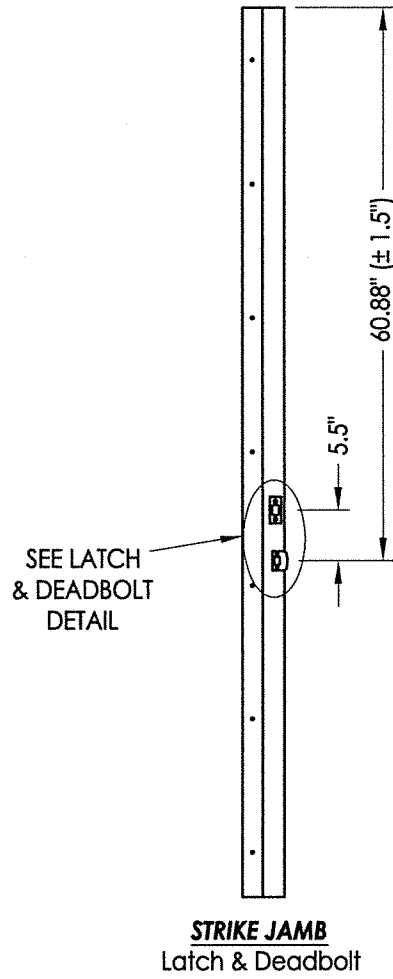


LATCH & DEADBOLT DETAIL
Kwikset

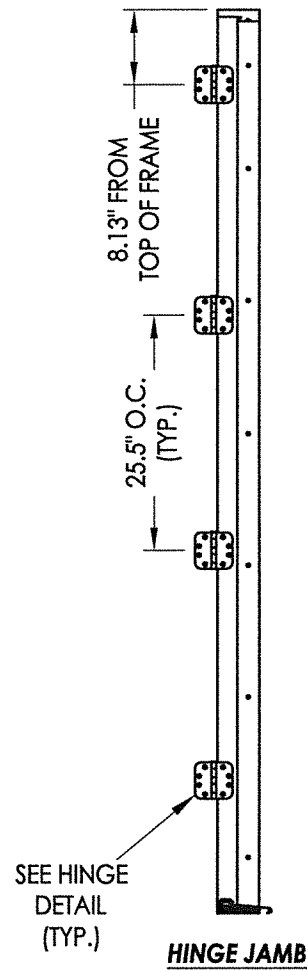


LATCH & DEADBOLT DETAIL
Schlage

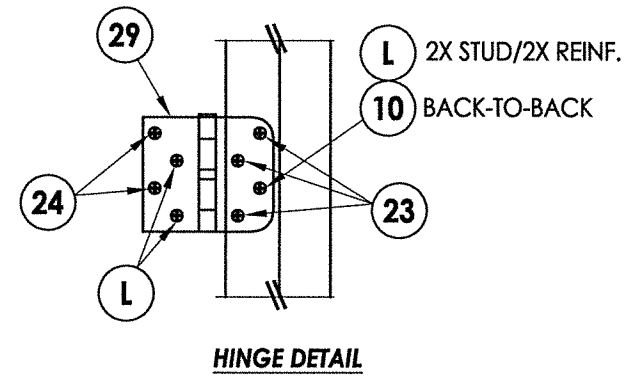
LATCH & DEADBOLT STRIKE DETAILS



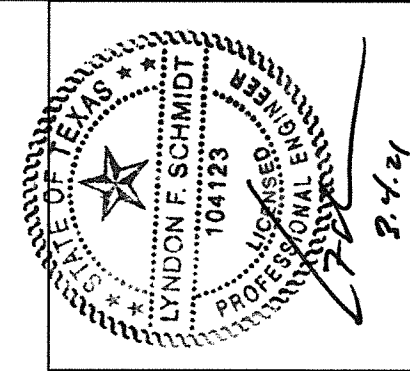
STRIKE JAMB
Latch & Deadbolt



HINGE JAMB



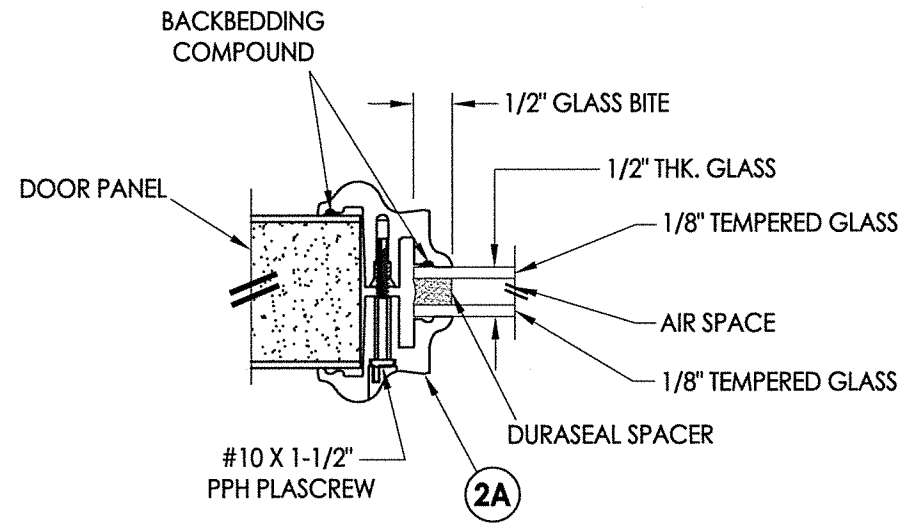
HINGE DETAIL



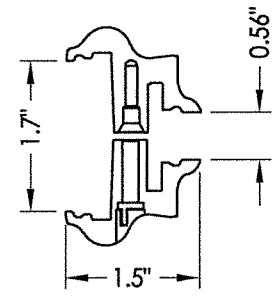
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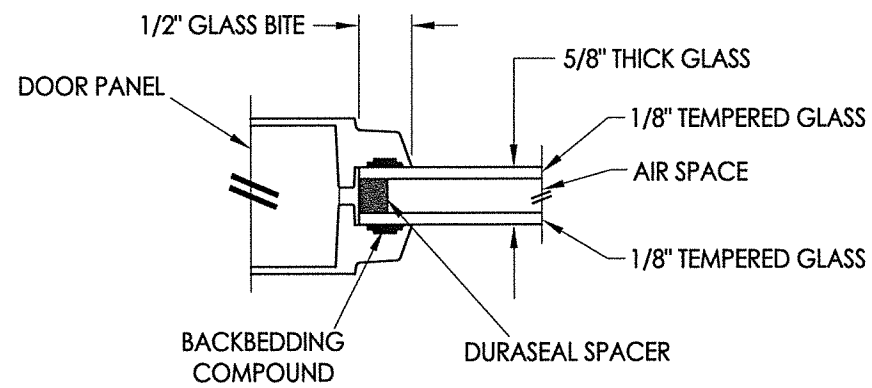
PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: HARDWARE DETAILS	
NO.	DATE
BY	
REVISIONS	
DATE: 1/06/21	
SCALE: N.T.S.	
DWG. BY: RW	
CHK. BY: LFS	
DRAWING NO.: TX-5144	
SHEET 9 OF 11	



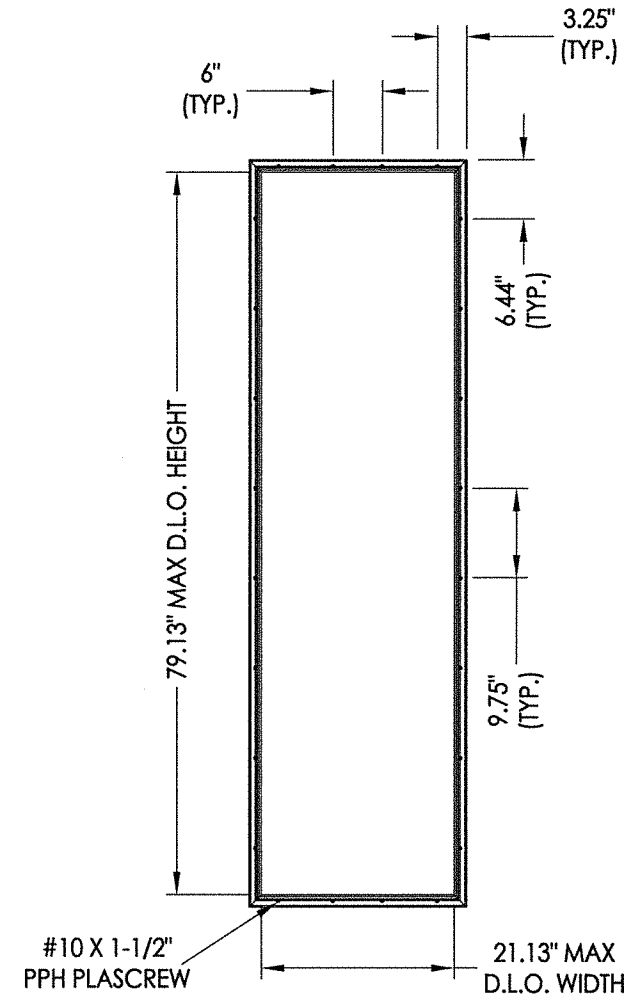
G1 GLAZING DETAIL
BTS Lite Frame
Door Panels



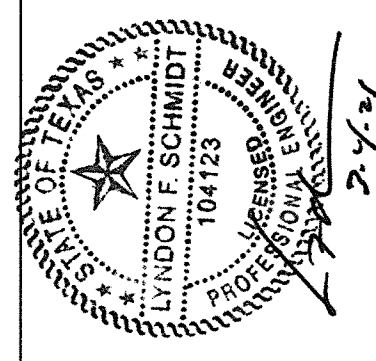
2A BTS LITE FRAME
1/2" Glazing



G2 GLAZING DETAIL
Flush Glazing
Door Panels



BTS Full Lite Frame



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

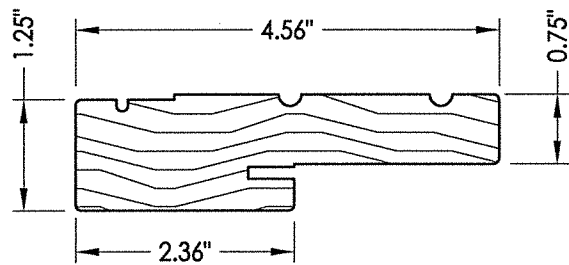
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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

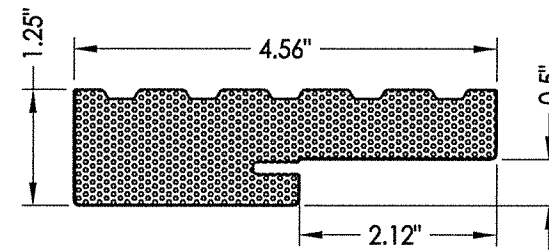
NO.	DATE	BY	REVISIONS

DATE:	12/10/20
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-5144
SHEET	10 OF 11

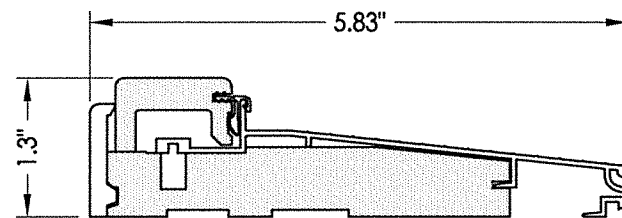
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
Q	#10 X 3" PFH WOOD SCREW (1.75" MIN. EMBEDMENT)	STEEL
R	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
X	2X REINFORCEMENT (SG = 0.55)	WOOD
1	WOOD JAMB (FINGER JOINT PINE)	WOOD
2	COMPOSITE JAMB	COMP
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
10	#10 X 1-1/2" PFH WOOD SCREW	STEEL
11	#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	#8 X 1-1/2" 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	INSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-



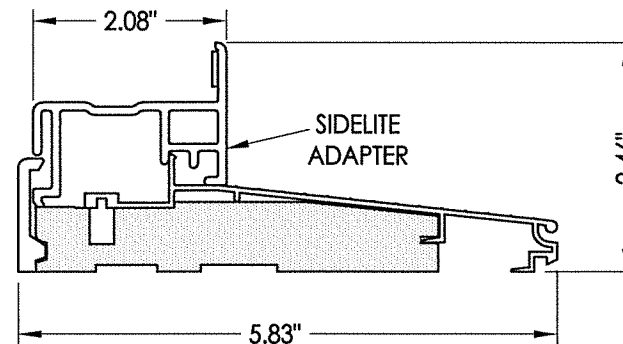
1 WOOD JAMB



2 COMPOSITE JAMB



32 INSWING THRESHOLD
Adjustable Composite Sill



33 INSWING THRESHOLD w/ SIDELITE ADAPTER
Composite Sill

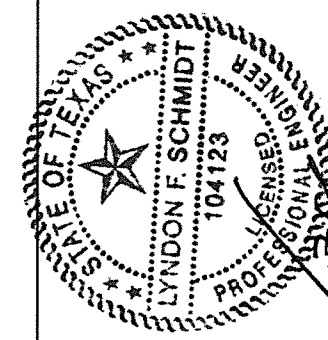
CONCRETE ANCHOR NOTES:

- 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"
DeWALT ULTRACON+®	1/4"	1-3/4"	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: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 1/06/21

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: TX-5144

SHEET 11 OF 11