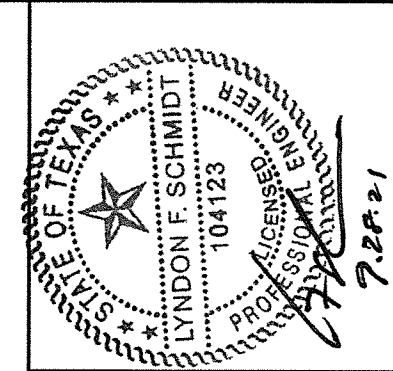


# THERMA-TRU® DOORS

Fiber-Classic® & Smooth-Star®

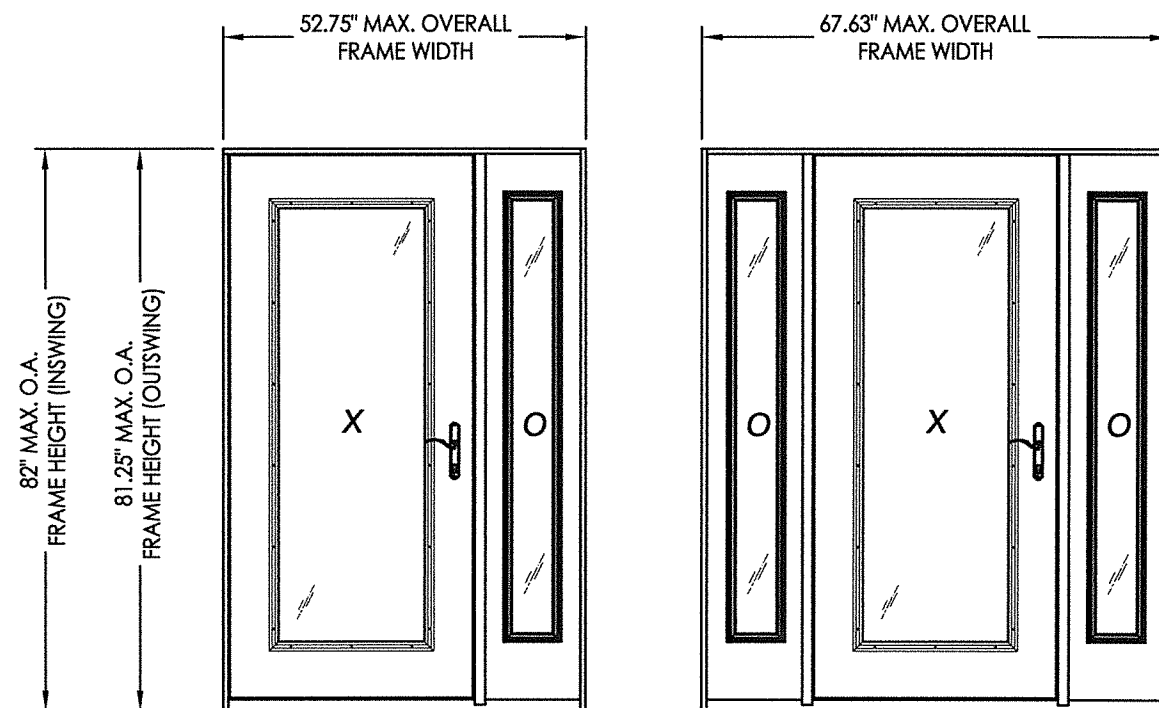


Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

CERTIFICATE OF REGISTRATION # F-11852

## COMPOSITE EDGE GLAZED FIBERGLASS SINGLE DOOR w/ SIDELITE(S) IN SWING/OUT SWING "NON-IMPACT"



EVALUATED FOR USE IN THE STATE OF TEXAS

**TDI DR-946**

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.

### TABLE OF CONTENTS

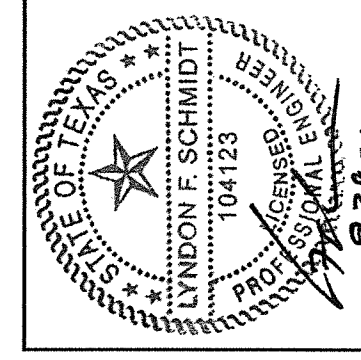
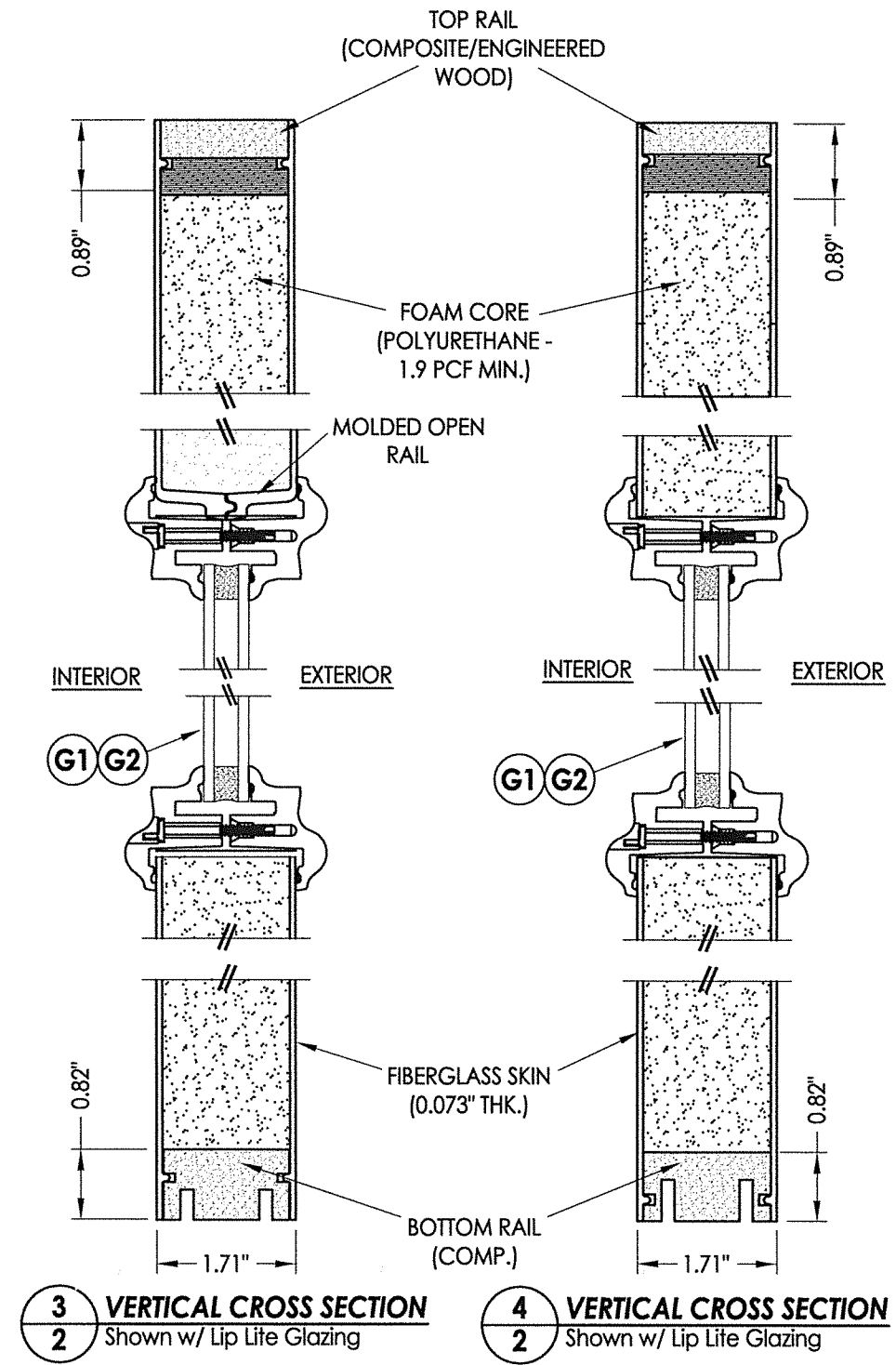
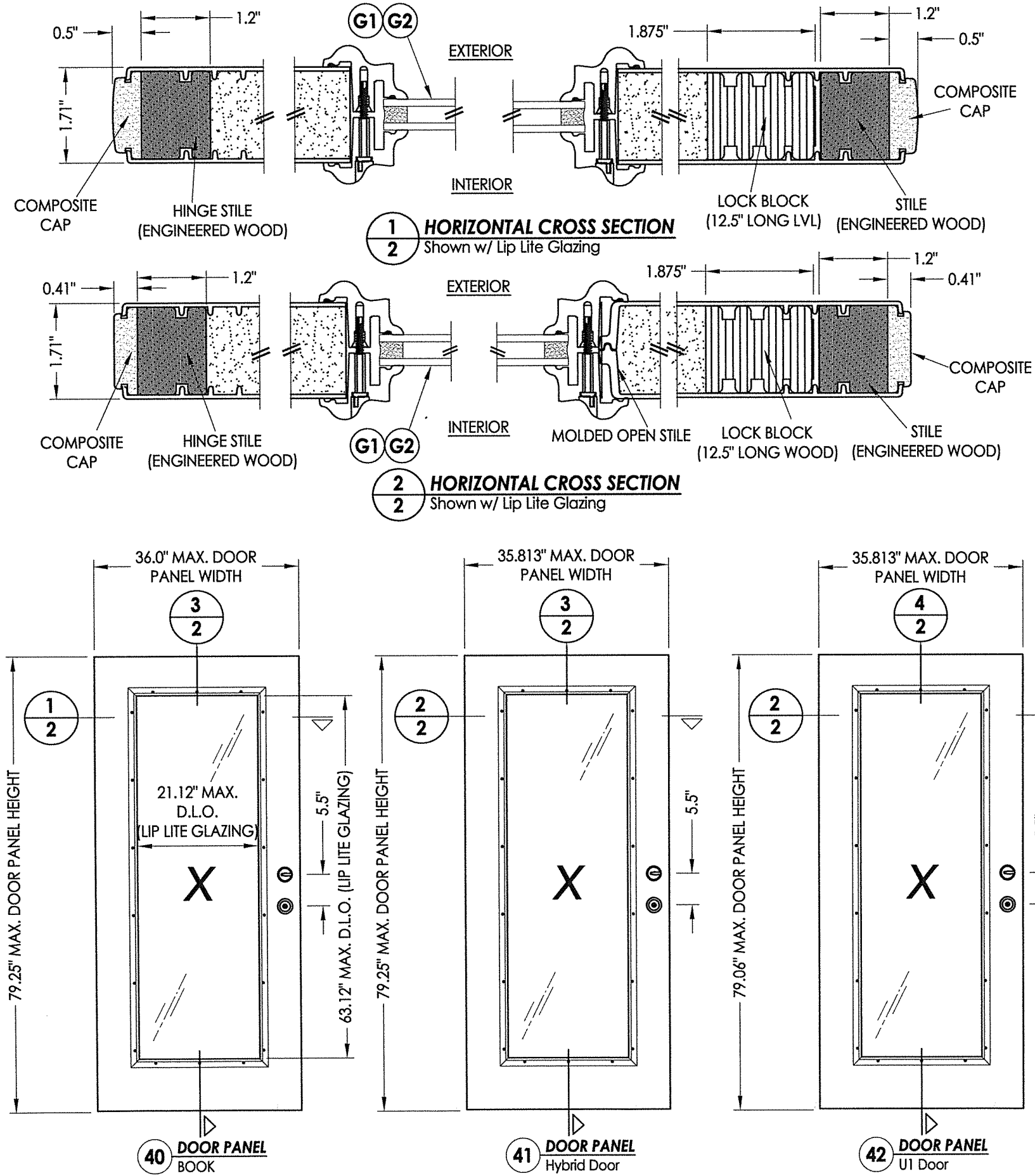
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Door Panel Details
4	Sidelite Panel Details
5	Elevations
6	Horizontal & Vertical Cross Sections
7	Vertical Cross Sections (Thresholds)
8	Frame Anchoring
9	Hardware Details
10	Glazing Details
11	Components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

### CONTINUOUS HEAD & SILL

CONFIGURATION	DOOR GLAZING	DOOR GLAZING MAX. D.L.O.	DESIGN PRESSURE (PSF) IN SWING		DESIGN PRESSURE (PSF) OUT SWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	Lip Lite	21.12" X 63.12"	+50.0	-50.0	+50.0	-50.0
XO, OX, OXO	Flush Glazed	24.12" X 63.38"	+55.0	-65.0	+55.0	-55.0
XO, OX, OXO	Flush Glazed	26.0" X 63.38"	+50.0	-50.0	+50.0	-50.0
XO, OX, OXO	Lip Lite (Molded Open)	21.12" X 63.12"	+60.0	-60.0	+60.0	-60.0

See Sheet 5 for Hardware Specifications

PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
DATE	NO.
11/27/17	1
REVISIONS	
DATE: 11/27/17	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4769	
SHEET 1 OF 12	

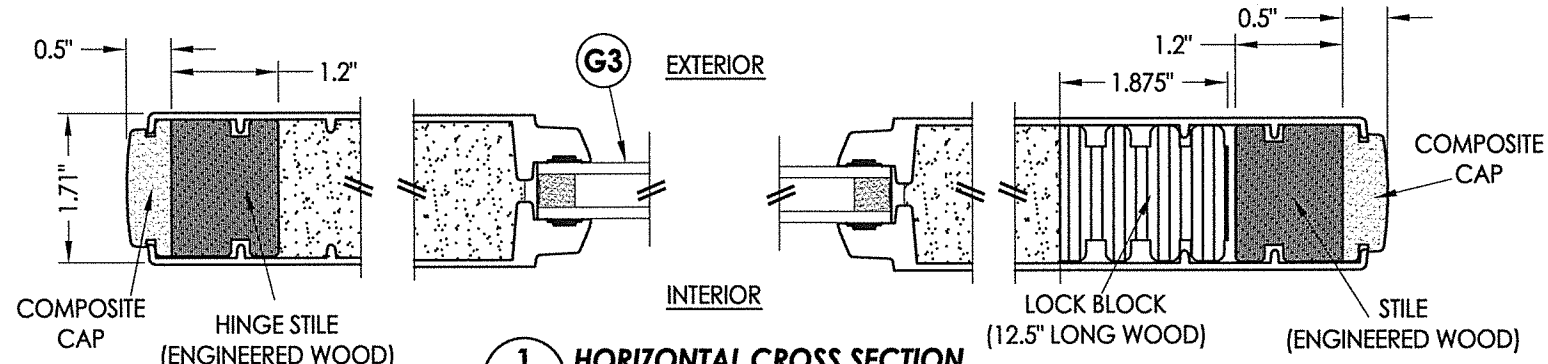


Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

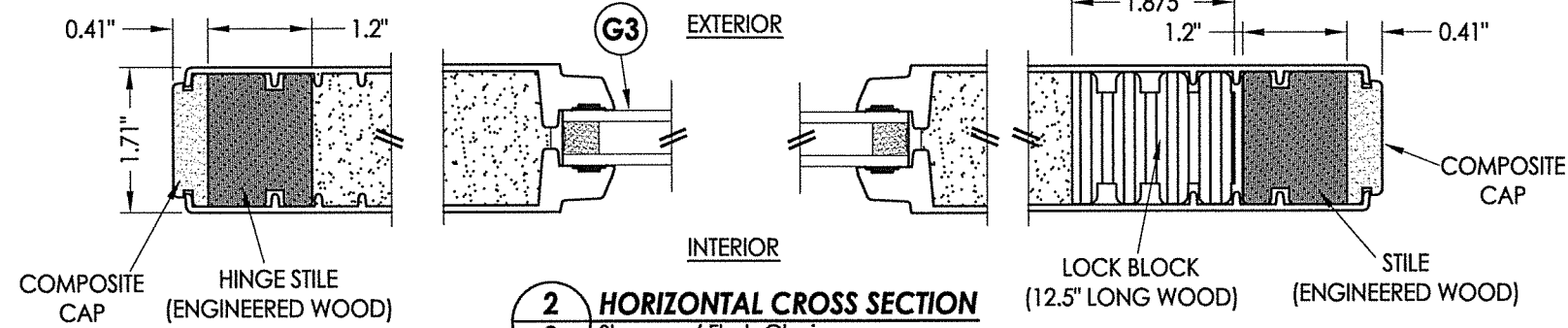
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

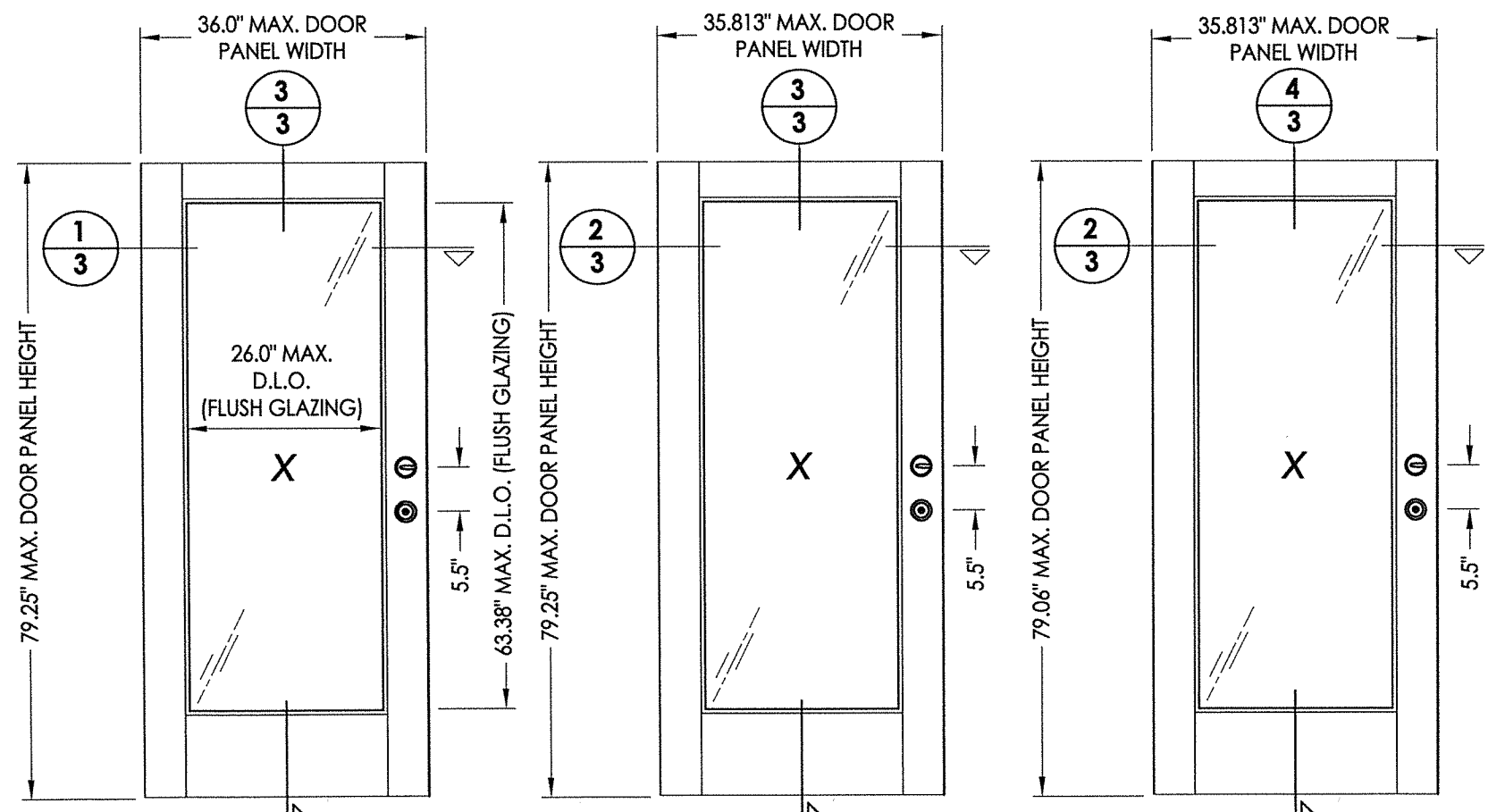
PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: DOOR PANEL DETAILS	
DATE: 11/27/17	REVISIONS
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4769	
SHEET 2 OF 12	



**1** HORIZONTAL CROSS SECTION  
**3** Shown w/ Flush Glazing



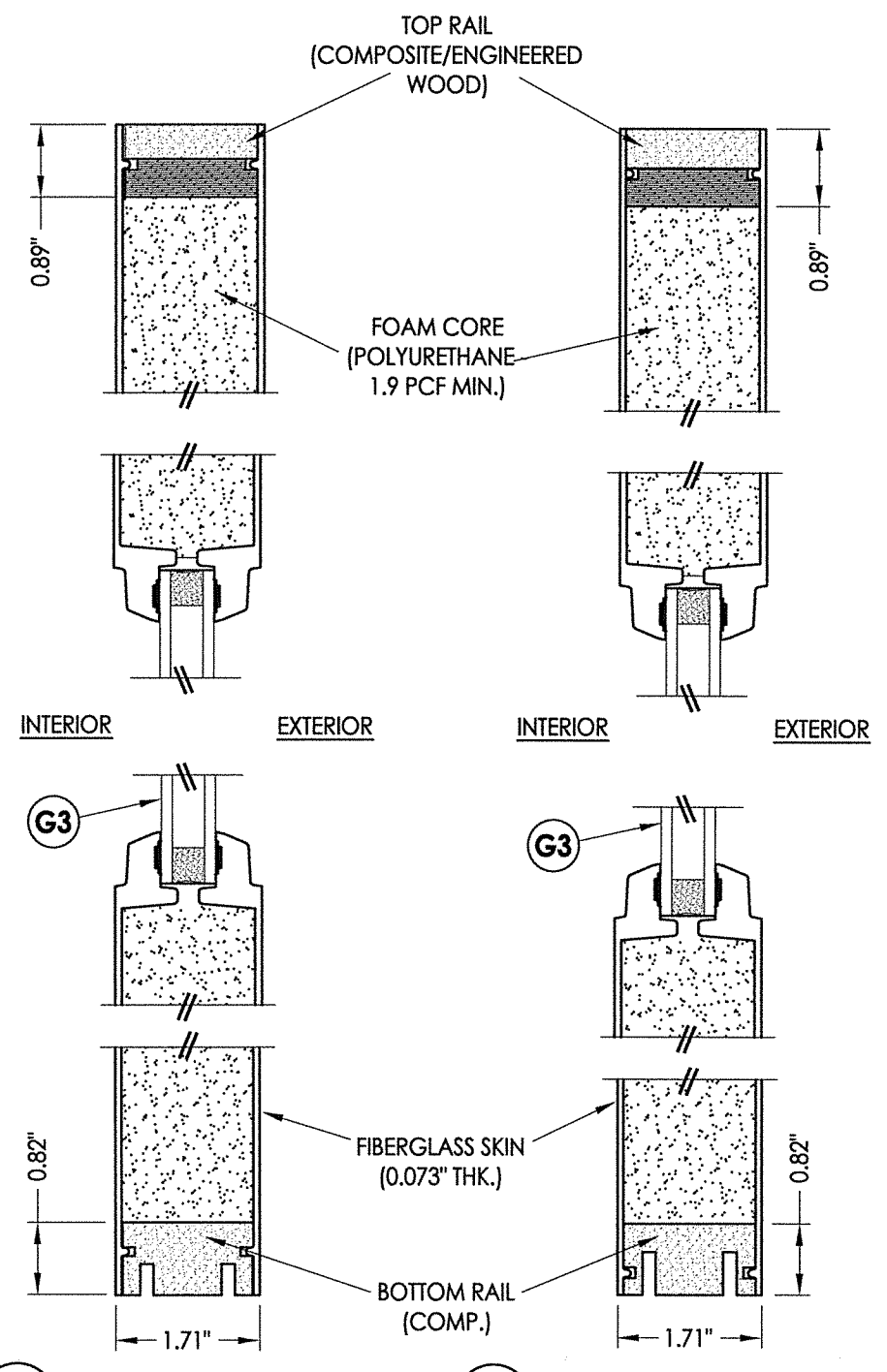
**2** HORIZONTAL CROSS SECTION  
**3** Shown w/ Flush Glazing



**43** DOOR PANEL BOOK

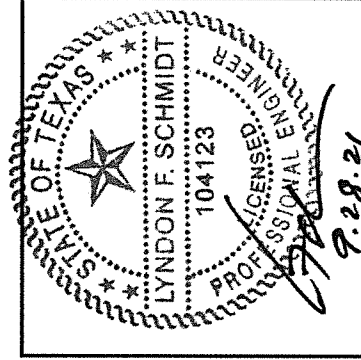
**44** DOOR PANEL Hybrid Door

**45** DOOR PANEL UI Door



**3** VERTICAL CROSS SECTION  
**3** Shown w/ Flush Glazing

**4** VERTICAL CROSS SECTION  
**3** Shown w/ Flush Glazing



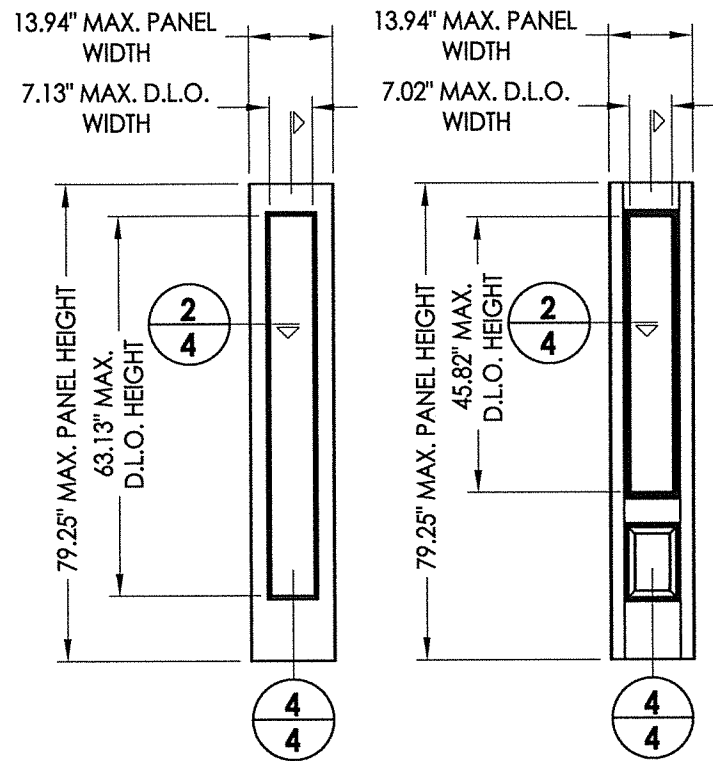
Documents Prepared By: Lyndon F. Schmidt, P.E.  
 TEXAS P.E. #104123

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

CERTIFICATE OF REGISTRATION # F-11852

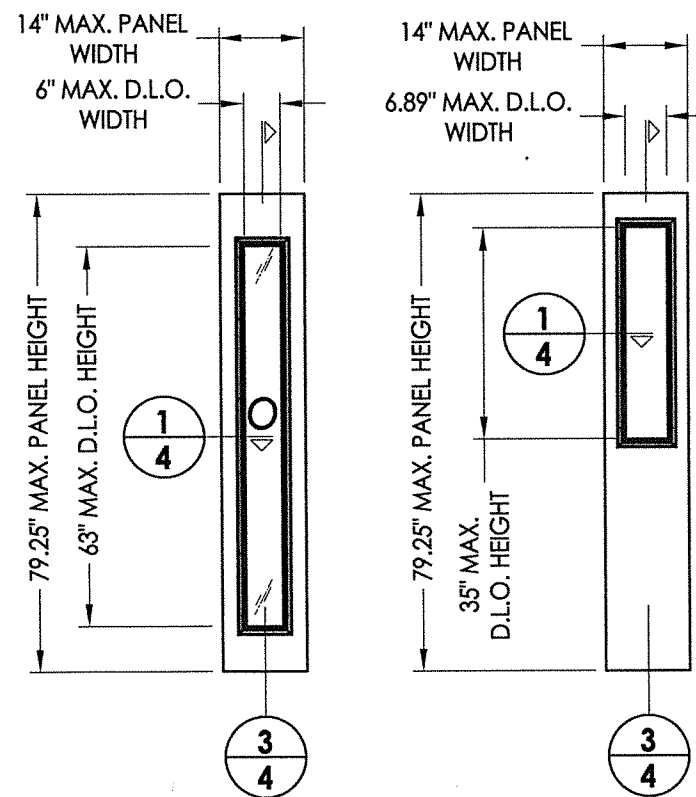
PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	DOOR PANEL DETAILS
DATE:	11/27/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4769
SHEET	3 of 12

NO.	DATE	REVISIONS
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE



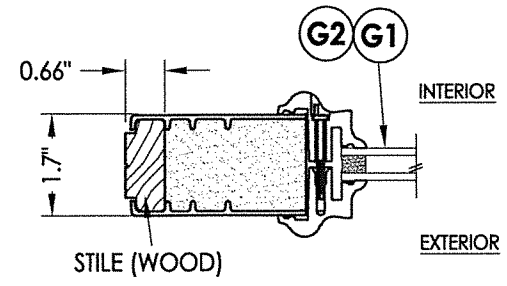
**60 SIDELITE PANEL**  
Full Lite  
Flush Glazed

**60 SIDELITE PANEL**  
3/4 Lite  
Flush Glazed

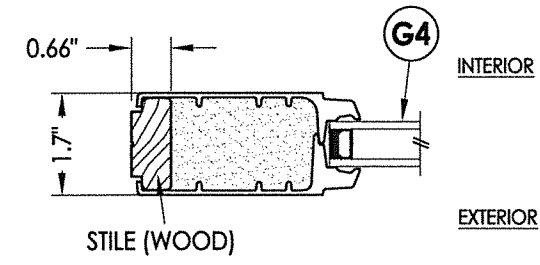


**50 SIDELITE PANEL**  
Full Lite  
Lip Lite

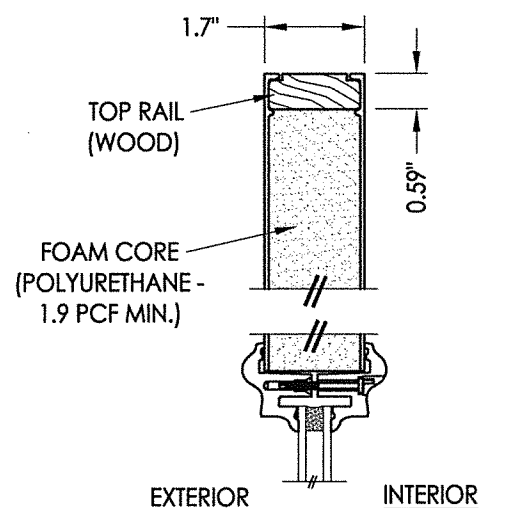
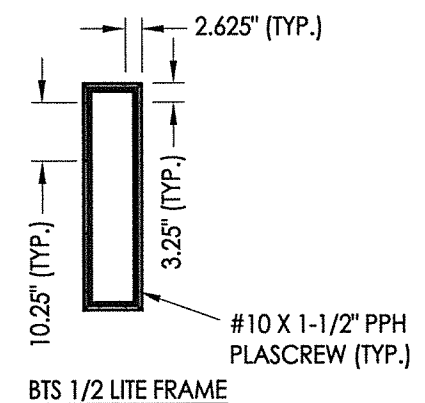
**50 SIDELITE PANEL**  
Half Lite  
Lip Lite



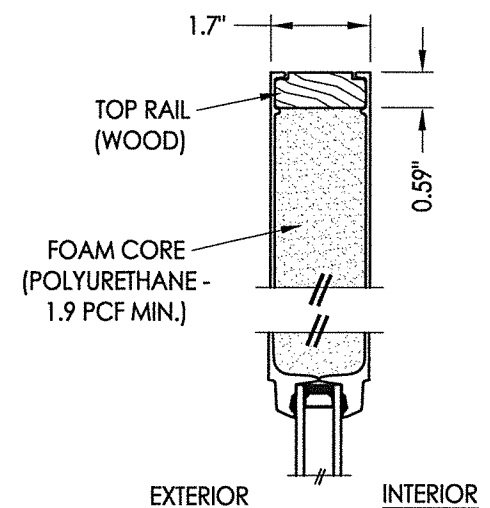
**1 HORIZONTAL CROSS SECTION**  
Lip Lite Glazing



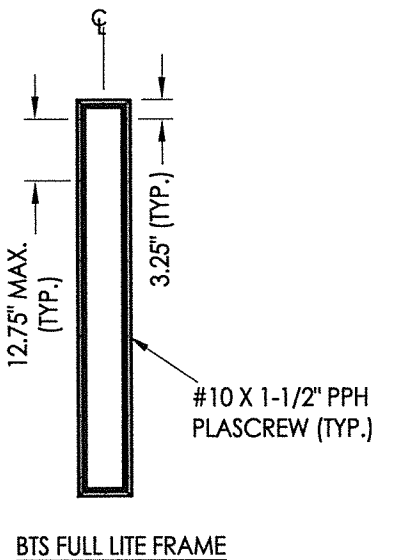
**2 HORIZONTAL CROSS SECTION**  
Flush Glazing



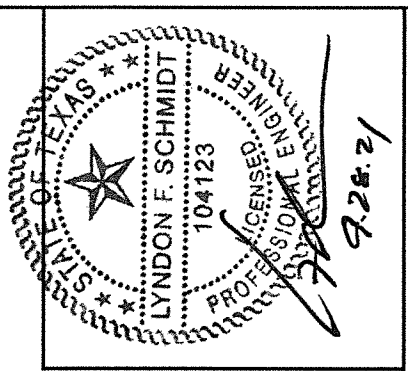
**3 VERTICAL CROSS SECTION**  
Lip Lite Glazing Shown



**4 VERTICAL CROSS SECTION**  
Flush Glazing Shown



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

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA TRU FIBERGLASS DOOR

PART OR ASSEMBLY: SIDELITE PANEL DETAILS

NO.	DATE	DESCRIPTION	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 11/27/17

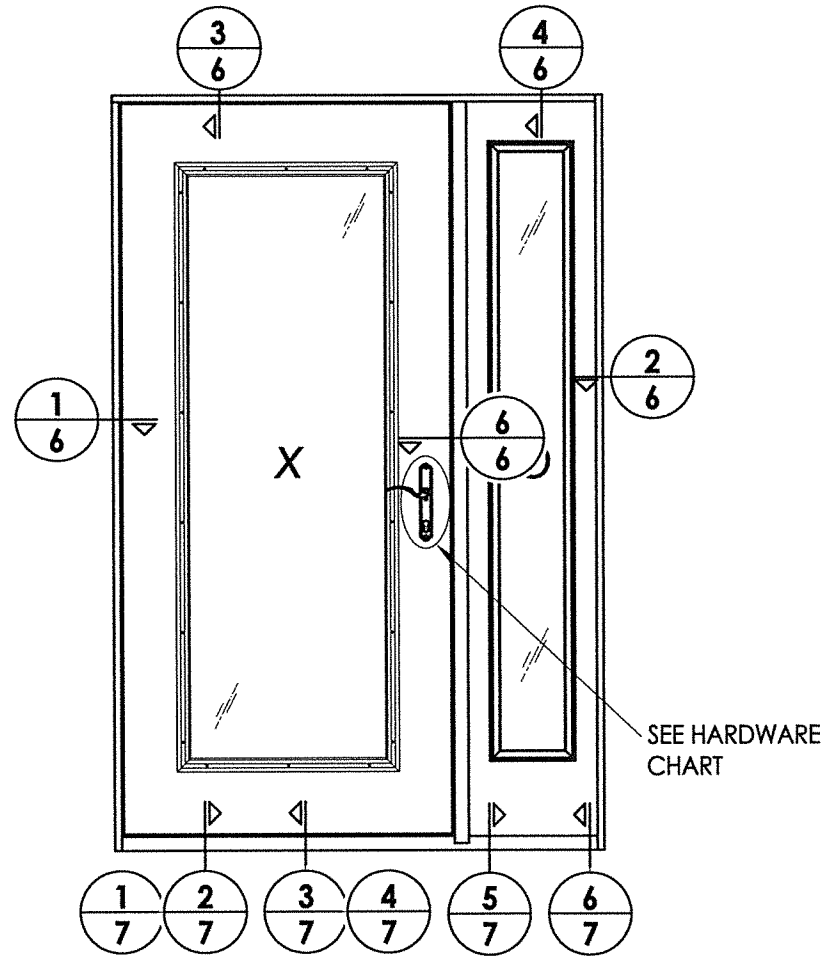
SCALE: N.T.S.

DWG. BY: JK

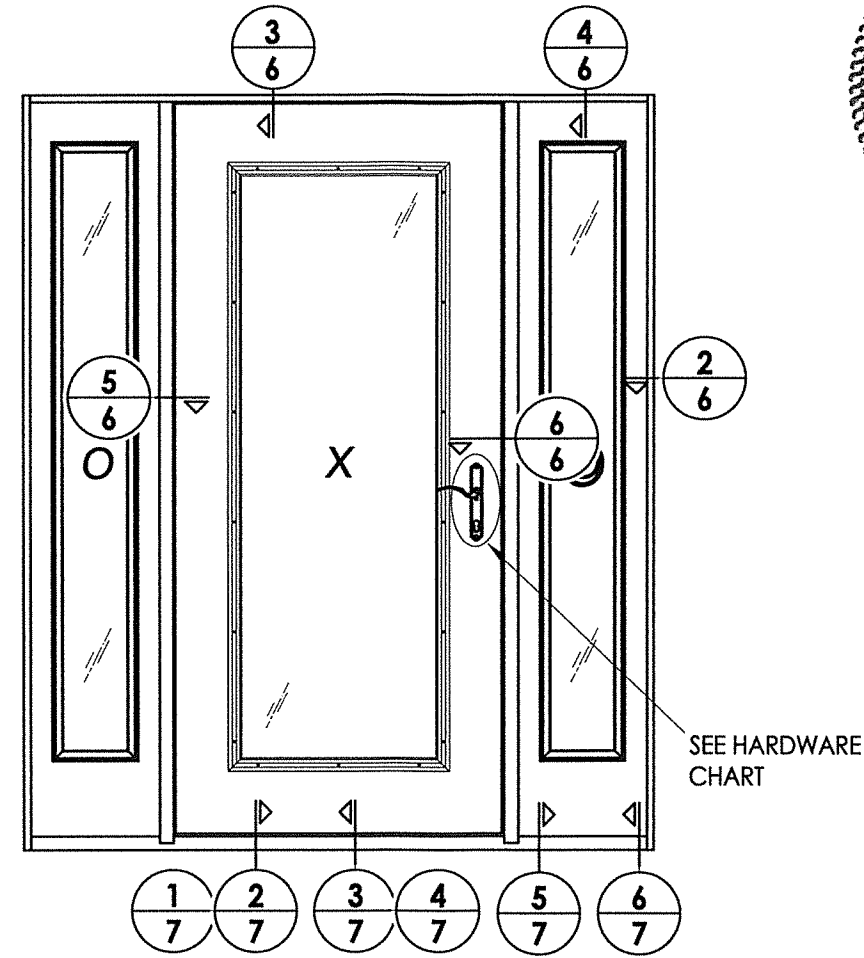
CHK. BY: LFS

DRAWING NO.: TX-4769

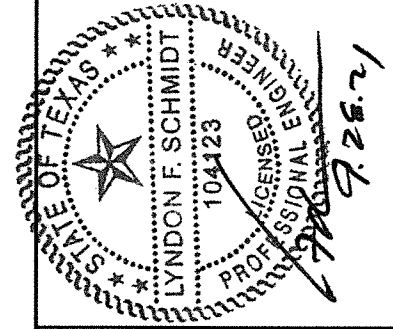
SHEET 4 OF 12



ELEVATION  
XO



ELEVATION  
OXO



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

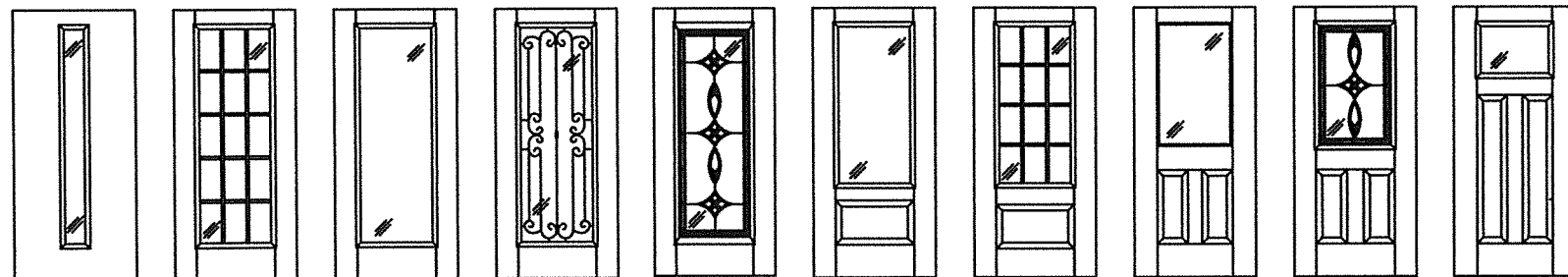
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR  
PART OR ASSEMBLY: ELEVATIONS

REVISIONS	
NO.	DATE
1	9/27/21
	UPDATE TO 2018 IBC/IRC CODE
	LFS
	BY

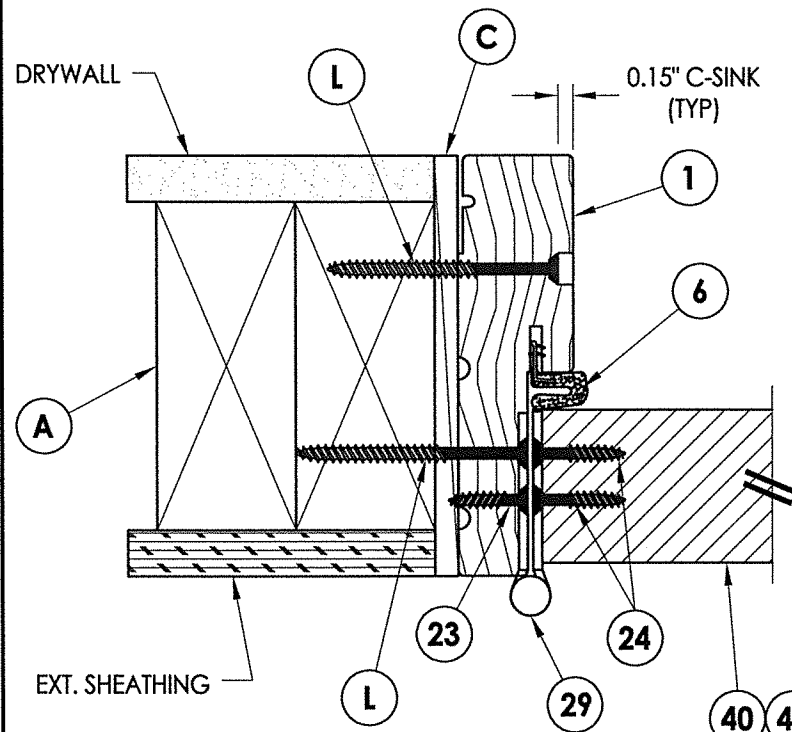
DATE: 11/27/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4769  
SHEET 5 OF 12



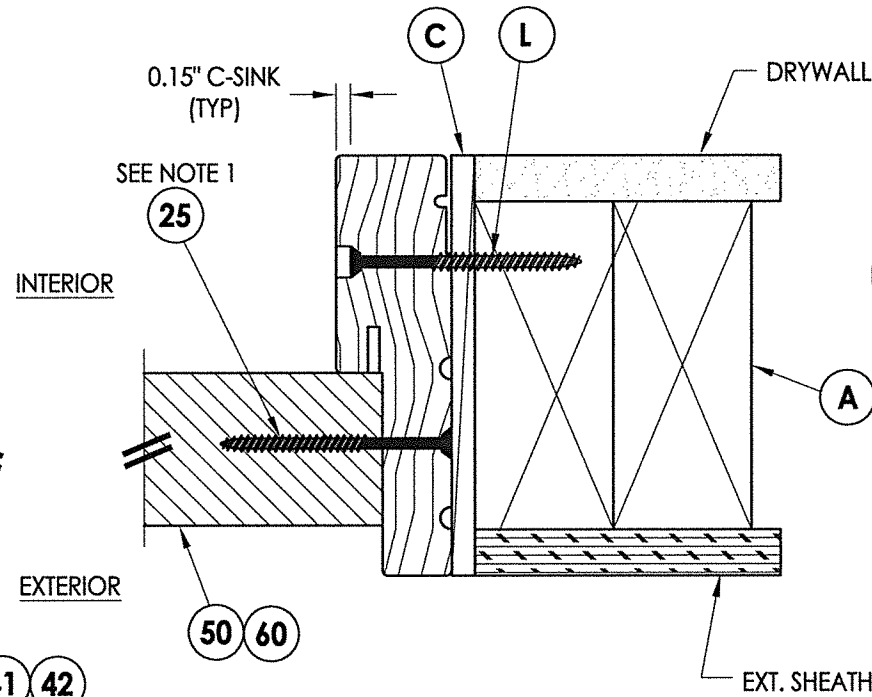
**Fiber-Classic/Smooth-Star Door Panel Options**

Panel options shown are for illustration and are representative only  
(similar glazed panel configurations are allowed)

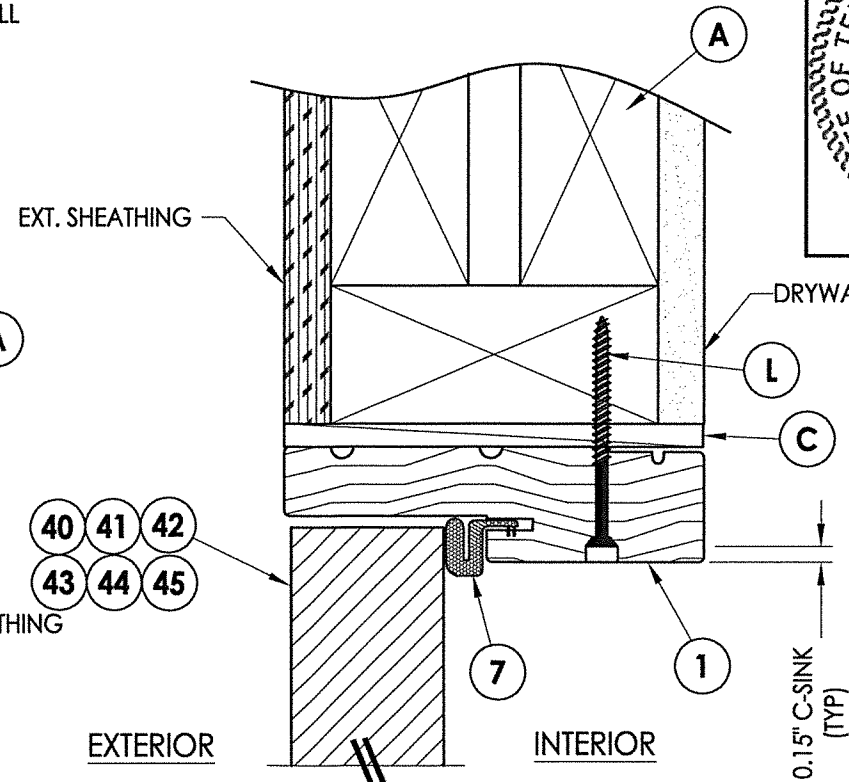
HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)



**1 HORIZONTAL CROSS SECTION**  
 6 Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



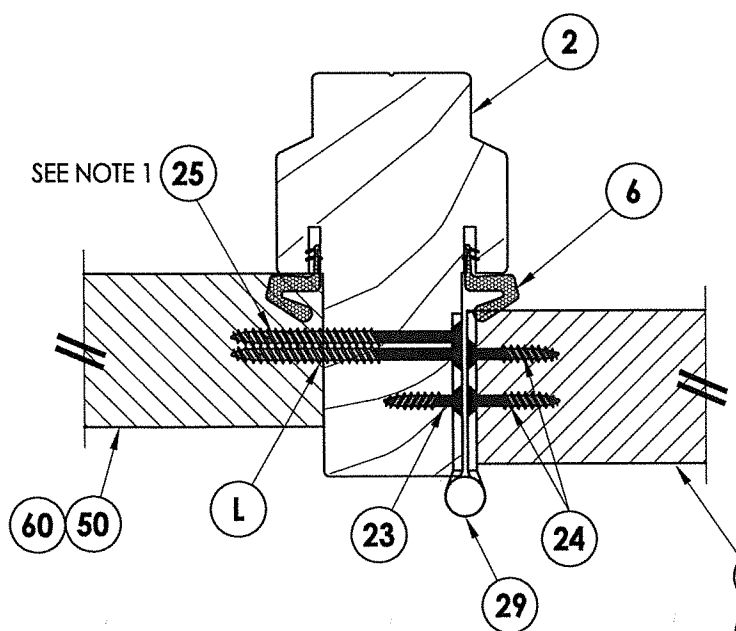
**2 HORIZONTAL CROSS SECTION**  
 6 Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



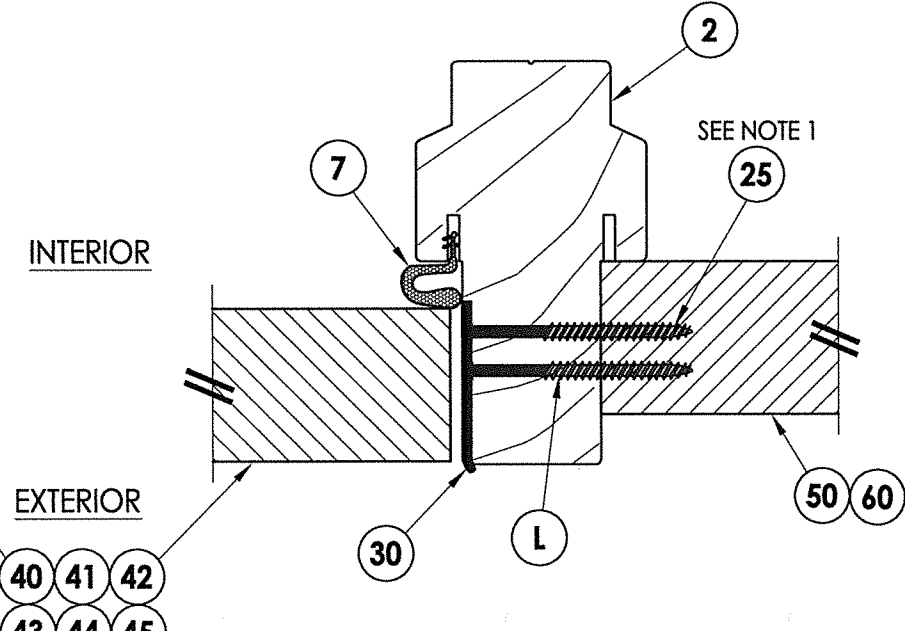
**3 VERTICAL CROSS SECTION**  
 6 Shown w/ 2X Buck  
 Outswing shown (Inswing similar)

**Notes:**

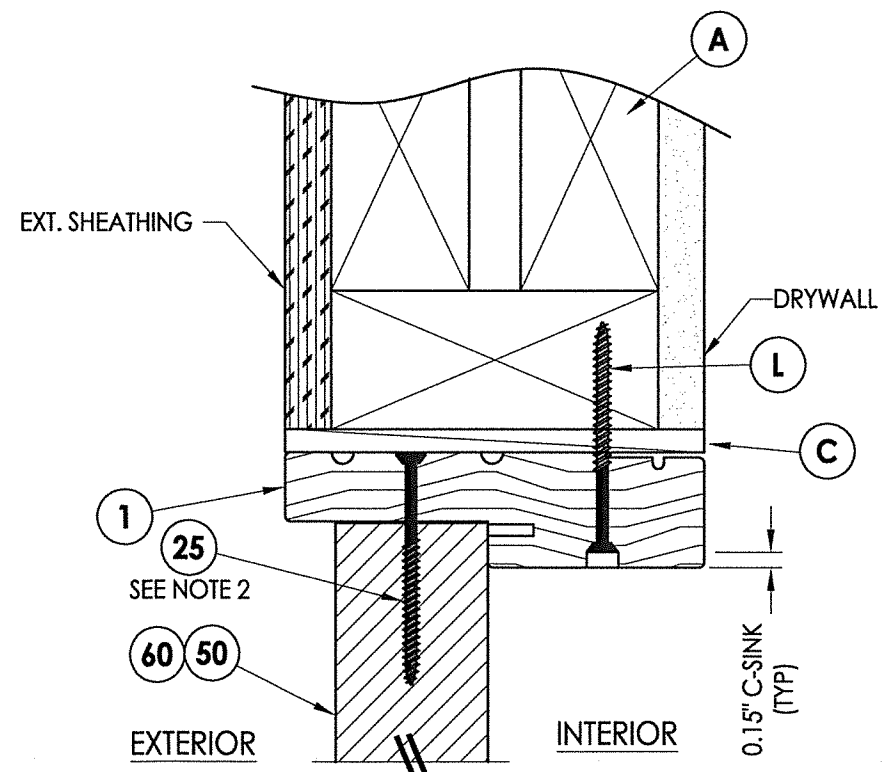
1. Sidelite assembly screws located 6" from each end and then 5 more equally spaced (7 total along jamb/mullion).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



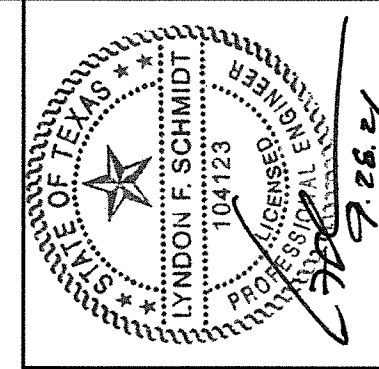
**5 HORIZONTAL CROSS SECTION**  
 6 Outswing shown (Inswing similar)



**6 HORIZONTAL CROSS SECTION**  
 6 Outswing shown (Inswing similar)



**4 VERTICAL CROSS SECTION**  
 6 Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



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

CERTIFICATE OF REGISTRATION # F-11852

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

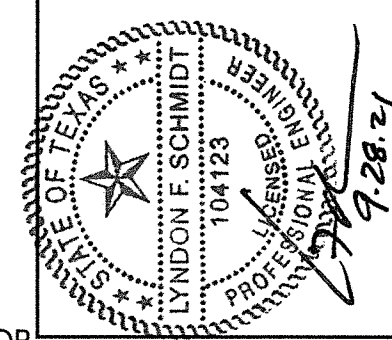
NO.	DATE	REVISIONS	LFS	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE	LFS	BY

DATE:	11/27/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4769
SHEET	6 OF 12

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 946 - 68 & 8'0 Glazed Comp Edge Non-Impact (TX 4761 - 4770)\C - Drawings\TX-4769-70.dwg

**Notes:**

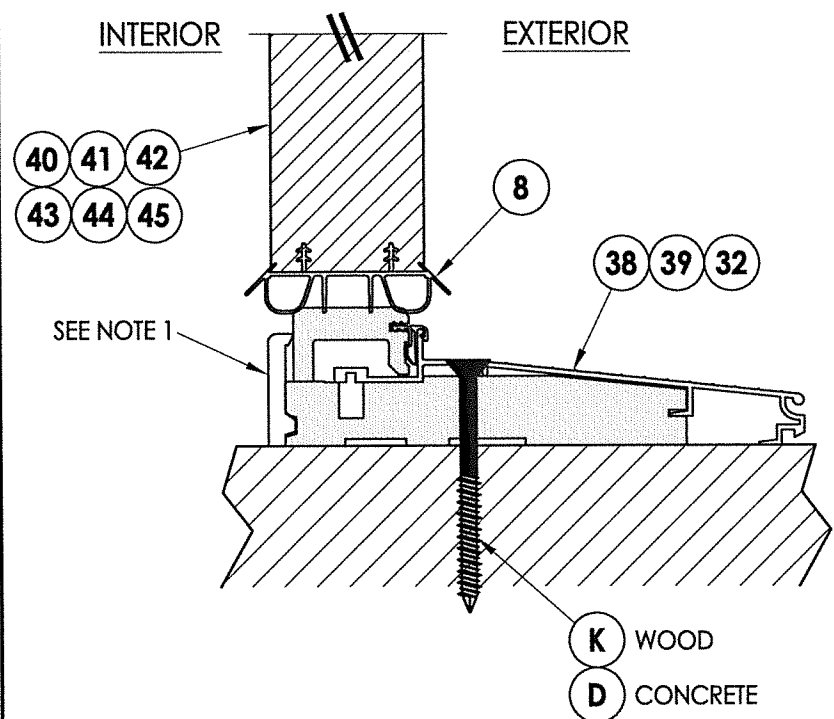
- Sill Item #'s 16, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.  
Sill Item #'s 17 & 18 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.  
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
- Sidelite assembly screws located 4" from each end (2 screws along sill).



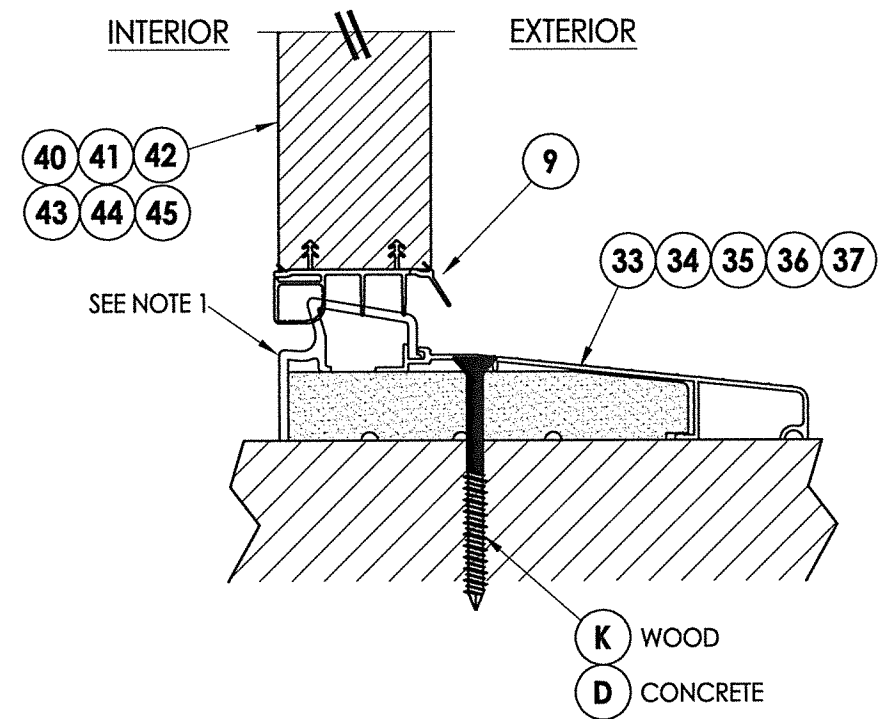
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

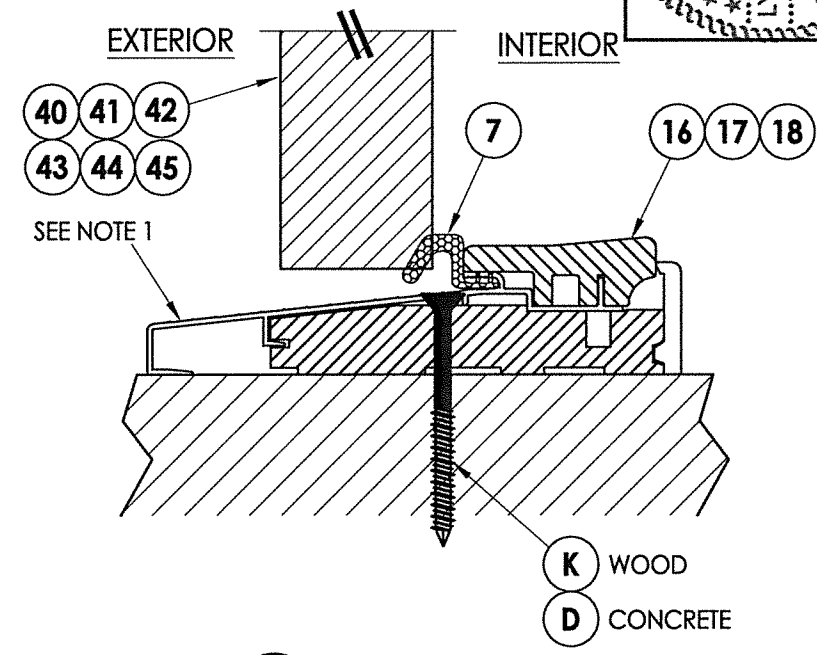
CERTIFICATE OF REGISTRATION # F-11852



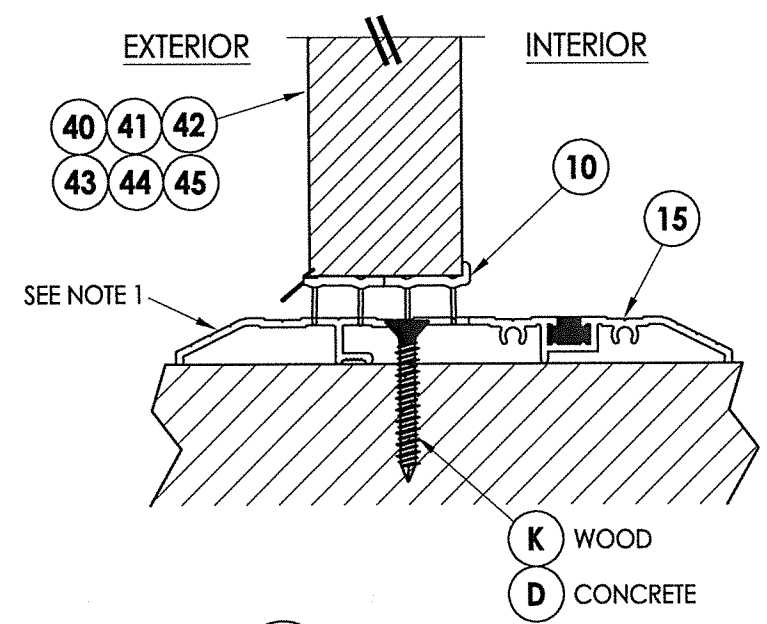
**1 VERTICAL CROSS SECTION**  
7 Inswing Sill



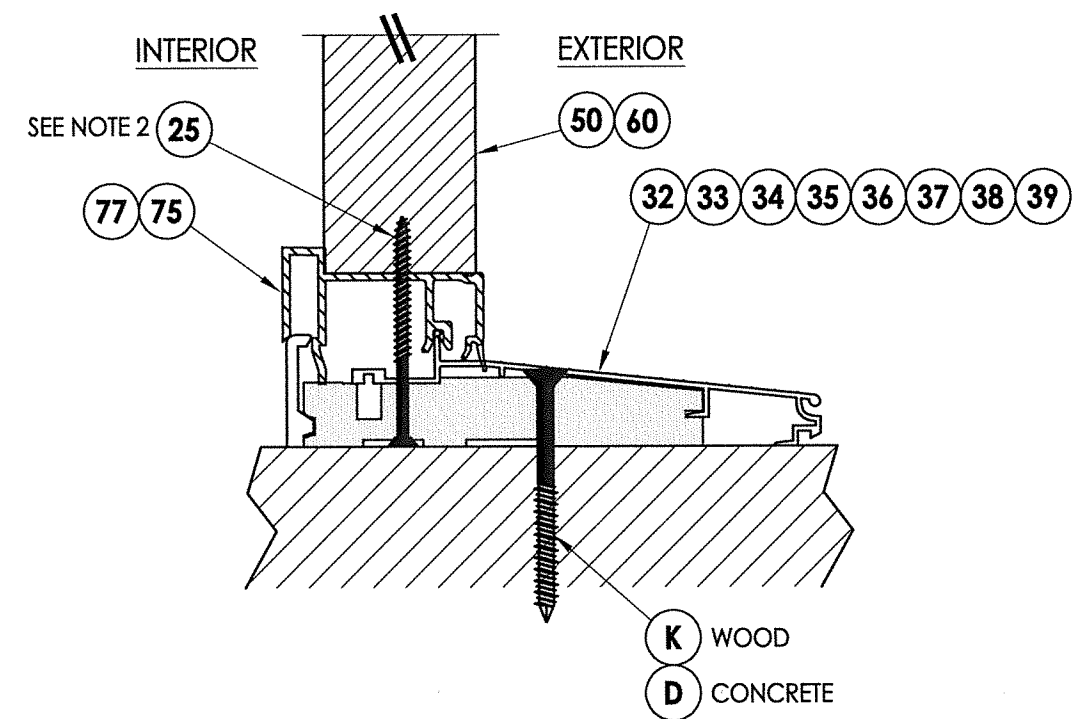
**2 VERTICAL CROSS SECTION**  
7 Inswing Sill



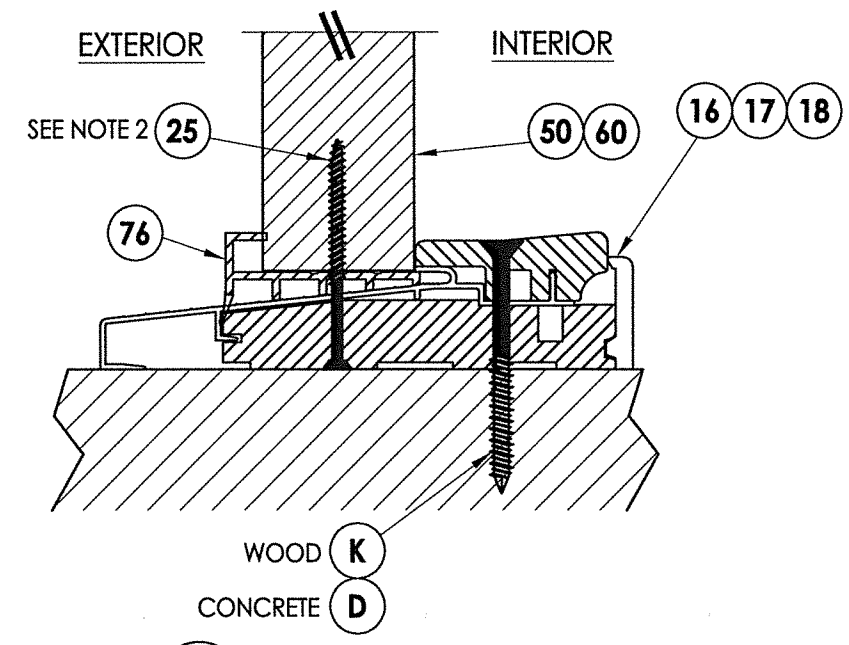
**3 VERTICAL CROSS SECTION**  
7 Outswing Sill



**4 VERTICAL CROSS SECTION**  
7 Public Access Sill



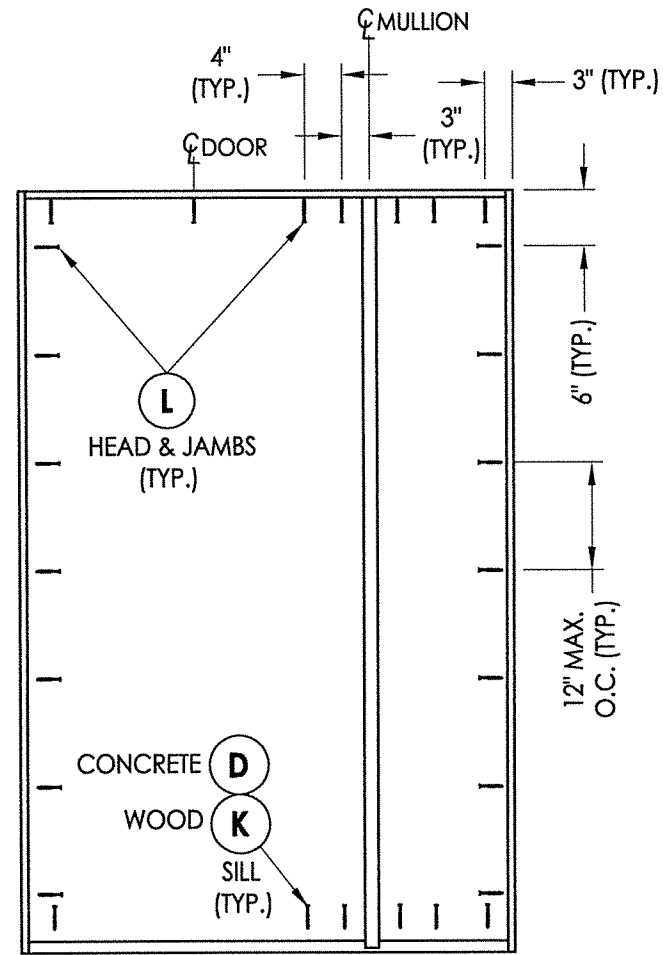
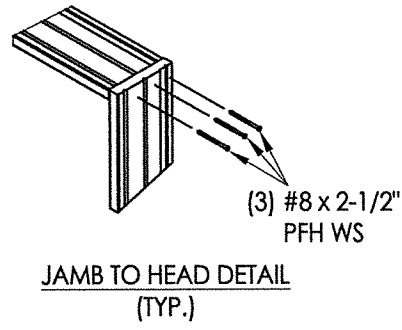
**5 VERTICAL CROSS SECTION**  
7 Inswing Sill



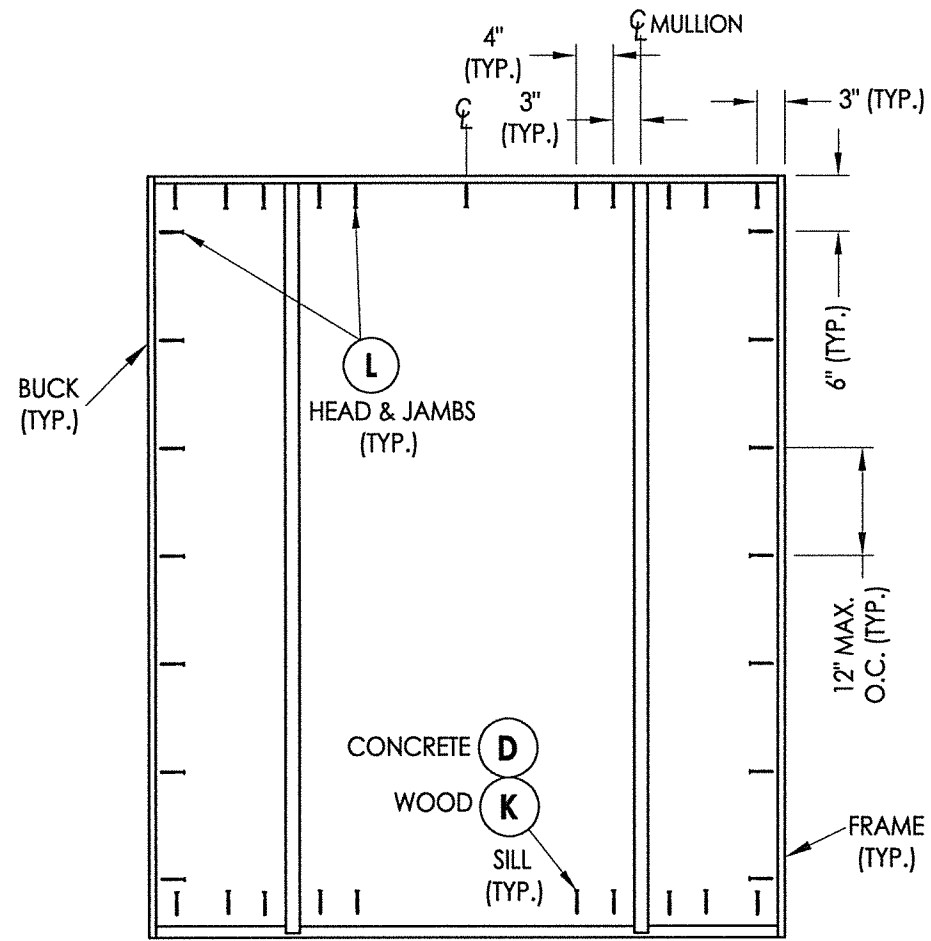
**6 VERTICAL CROSS SECTION**  
7 Outswing Sill

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	
NO.	DATE	DESCRIPTION	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			
DATE: 11/27/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4769			
SHEET 7 OF 12			

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 946 - 68 & 8'0 Glazed Comp Edge Non-Impact (TX 4761 - 4770)\C - Drawings\TX-4769-70.dwg

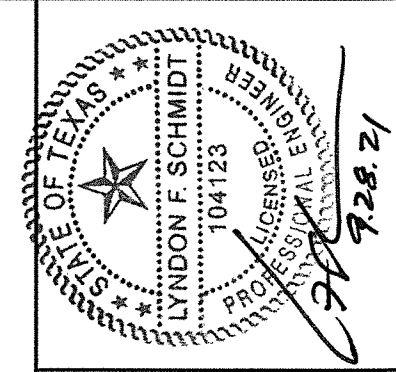


XO/OX



OXO

**FRAME ANCHORING**



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

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

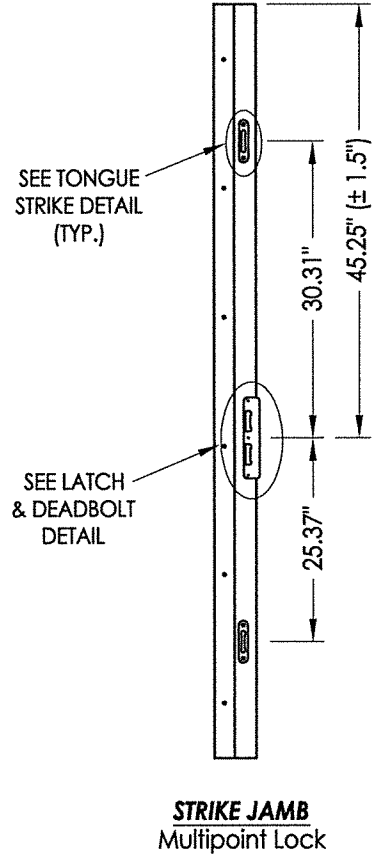
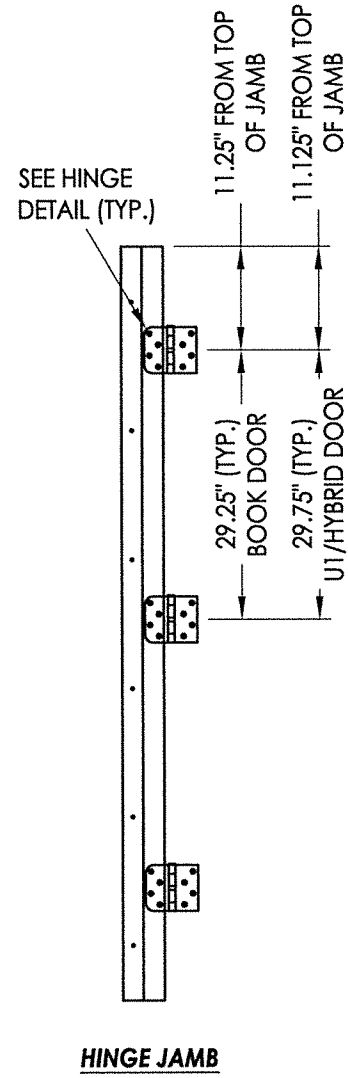
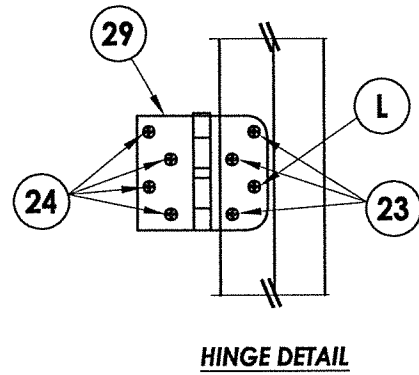
CERTIFICATE OF REGISTRATION # F-11852

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

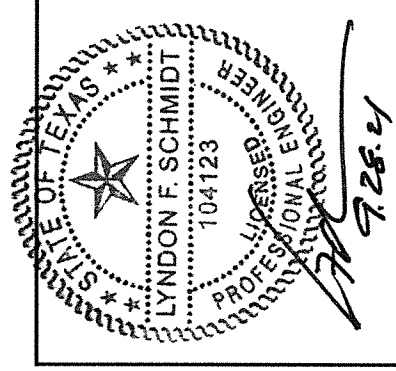
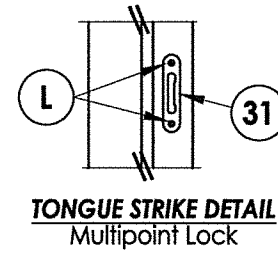
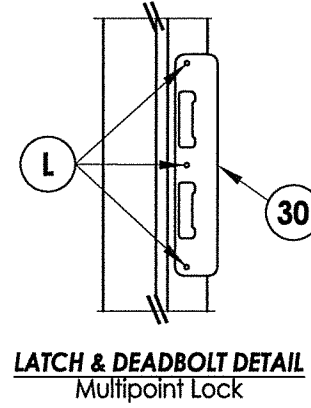
NO.	DATE	REVISIONS
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE
		LFS BY

DATE: 11/27/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4769  
SHEET 8 OF 12





**MULTIPOINT LOCK STRIKE DETAILS**



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

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: HARDWARE DETAILS

NO.	DATE	DESCRIPTION	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE	LFS
			REVISIONS

DATE: 11/27/17

SCALE: N.T.S.

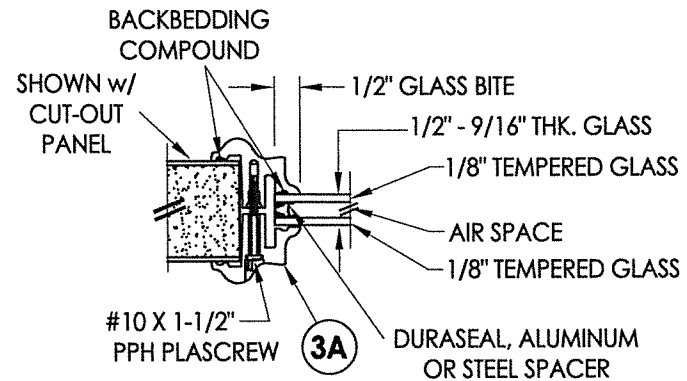
DWG. BY: JK

CHK. BY: LFS

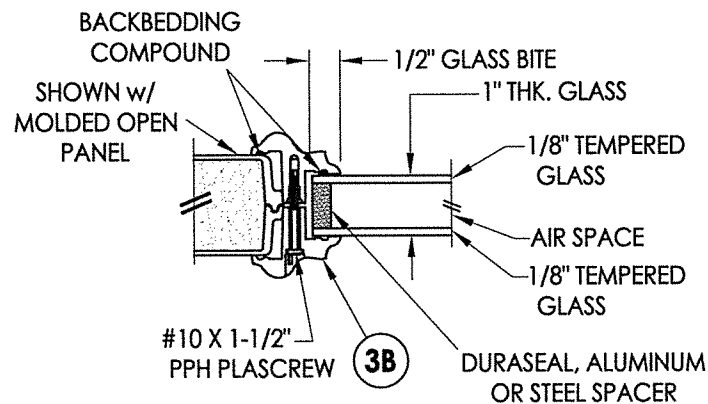
DRAWING NO.: TX-4769

SHEET 9 OF 12

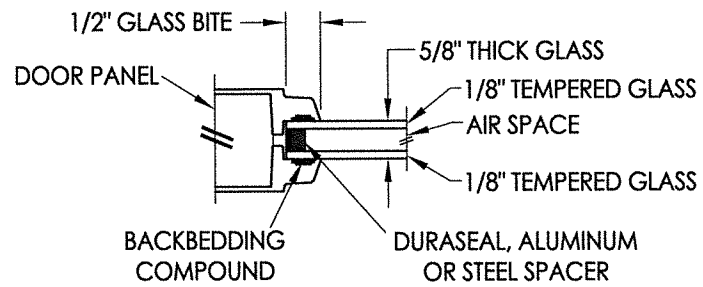
Z:\Clients\Therma Tru Permanent\B - Texas Dept of Ins\TDI - DR 946 - 6'8 & 8'0 Glazed Comp Edge Non-Impact (TX 4761 - 4770)\C - Drawings\TX-4769-70.dwg



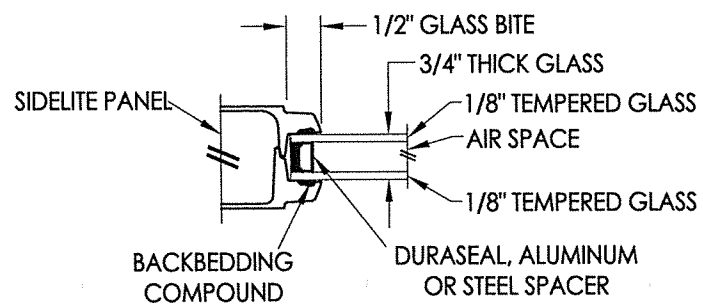
**G1 GLAZING DETAIL**  
BTS Life Frame  
Door Panels & Sidelites



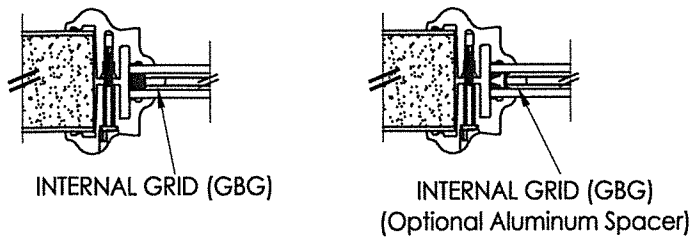
**G2 GLAZING DETAIL**  
BTS Life Frame  
Door Panels & Sidelites



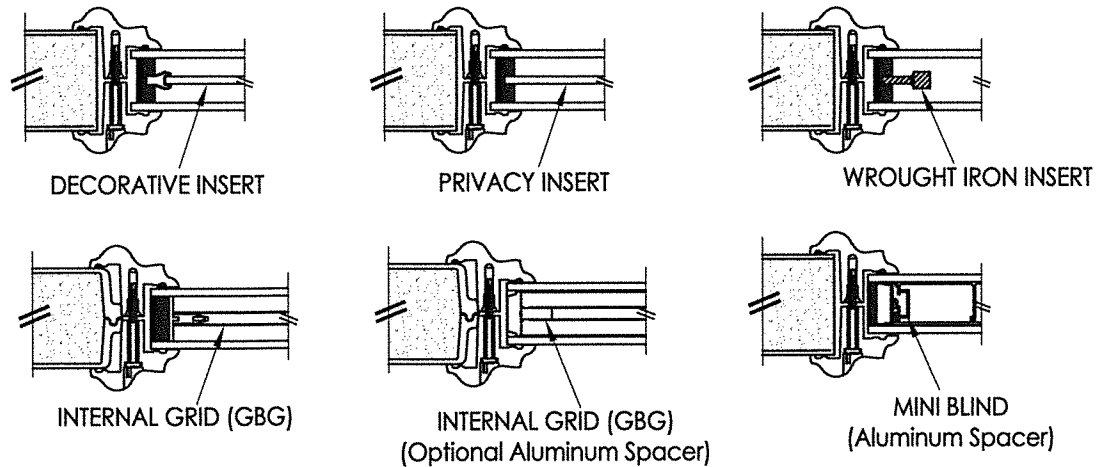
**G3 GLAZING DETAIL**  
Flush Glazing  
Door Panels



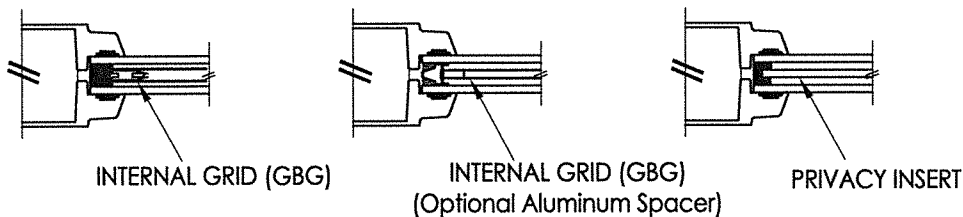
**G4 GLAZING DETAIL**  
Flush Glazing  
Sidelites



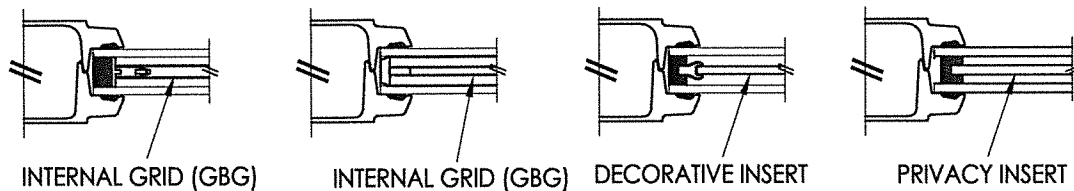
9/16" INSULATED GLASS INSERT OPTIONS



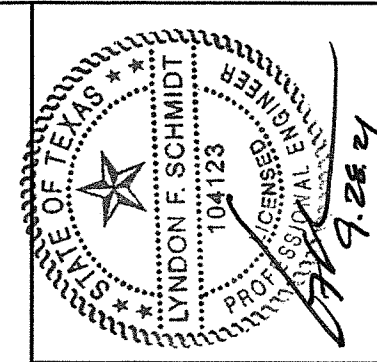
1" INSULATED GLASS INSERT OPTIONS



5/8" INSULATED GLASS INSERT OPTIONS



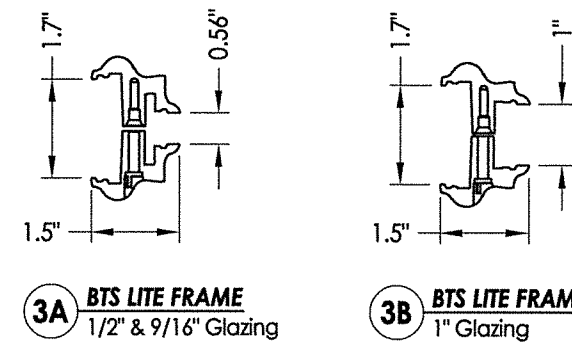
3/4" INSULATED GLASS INSERT OPTIONS



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

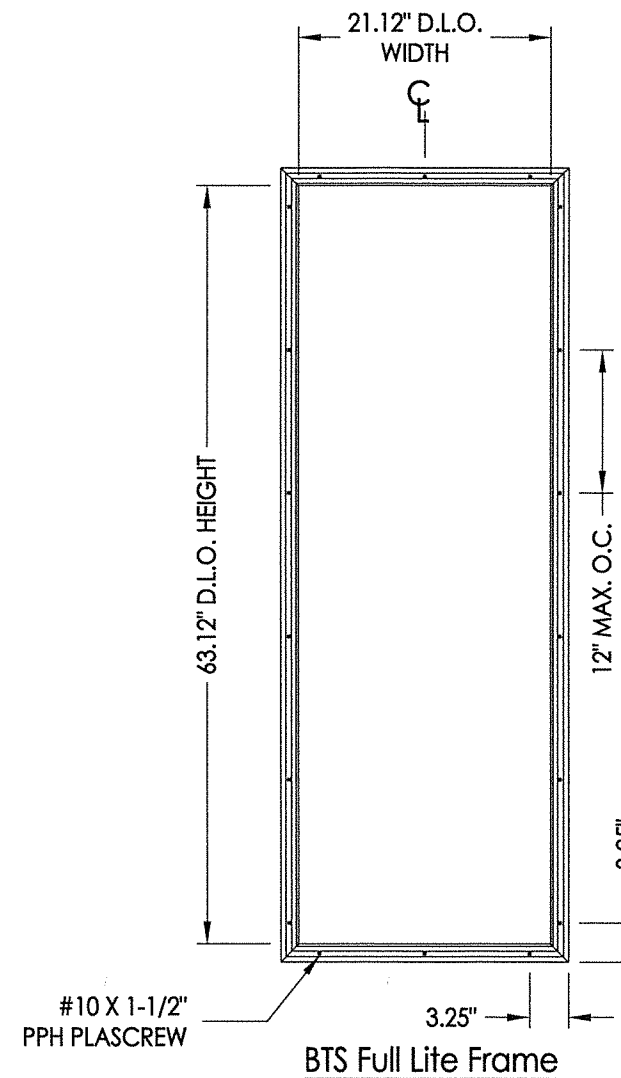
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vairico FL 33595  
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852



**3A BTS LITE FRAME**  
1/2" & 9/16" Glazing

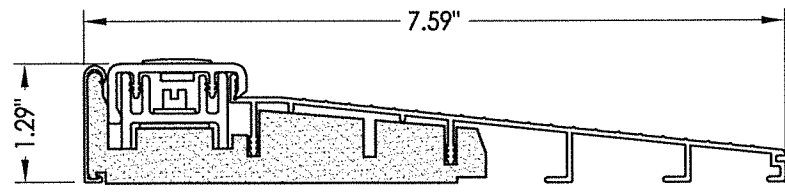
**3B BTS LITE FRAME**  
1" Glazing



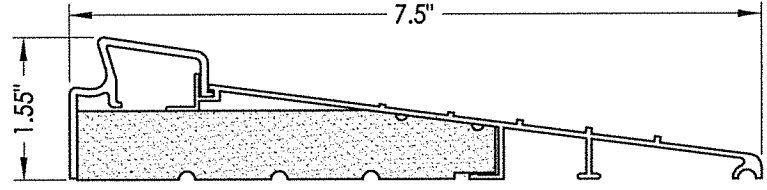
BTS Full Life Frame

PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: GLAZING DETAILS	
NO.	DATE	DESCRIPTION	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			
DATE: 11/27/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4769			
SHEET 10 OF 12			

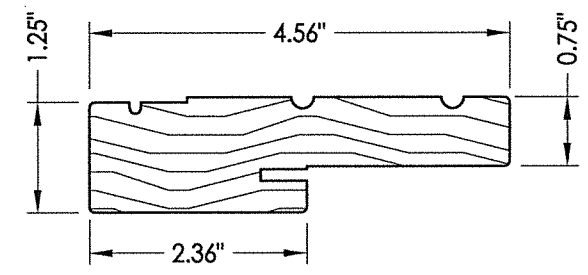
Z:\Clients\Therma Tru Permanent\B - Texas Dept of Ins\TDI - DR 946 - 68 & 8'0 Glazed Comp Edge Non-Impact (TX 4761 - 4770)\C - Drawings\TX-4769-70.dwg



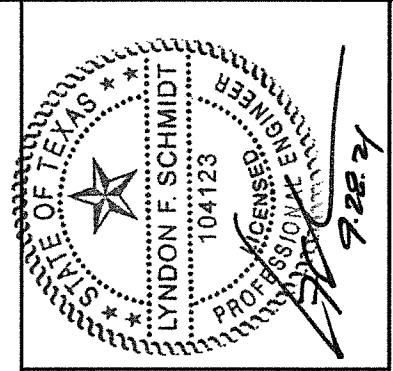
**32 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill 7-1/2"



**37 INSWING THRESHOLD**  
Inswing Basic Fixed 7-1/2" Sill



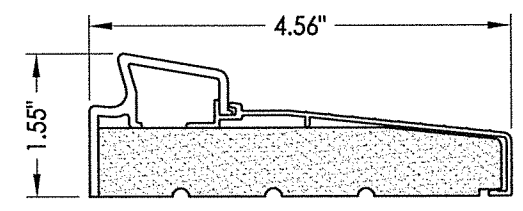
**1 WOOD JAMB**



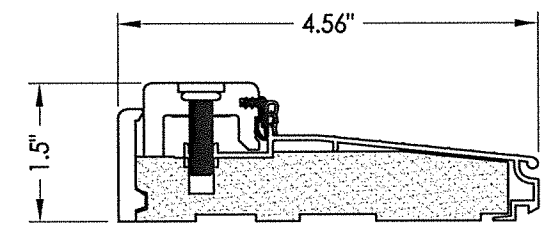
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

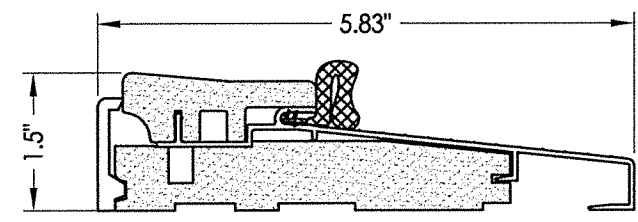
CERTIFICATE OF REGISTRATION # F-11852



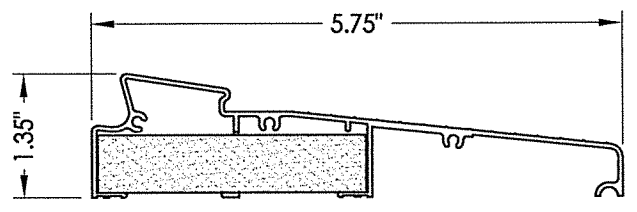
**33 INSWING THRESHOLD**  
Inswing Basic Fixed Sill



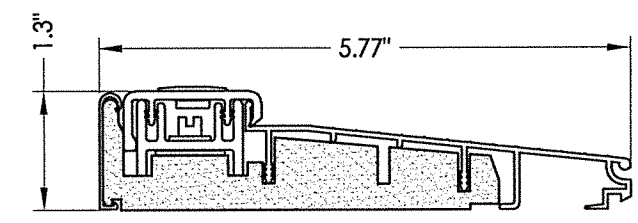
**38 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill



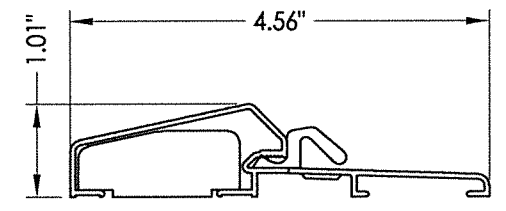
**16 OUTSWING THRESHOLD**  
Composite Sill



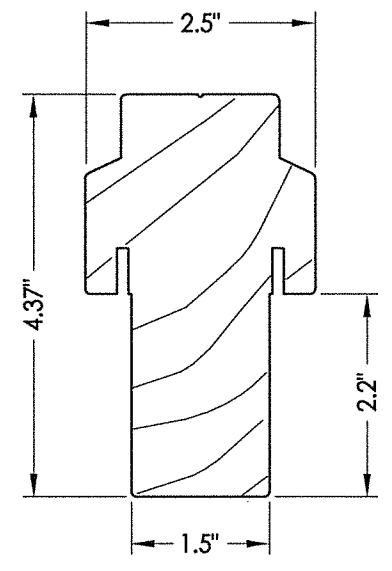
**34 INSWING THRESHOLD**  
Inswing Moderate Climate Sill 1-3/8"



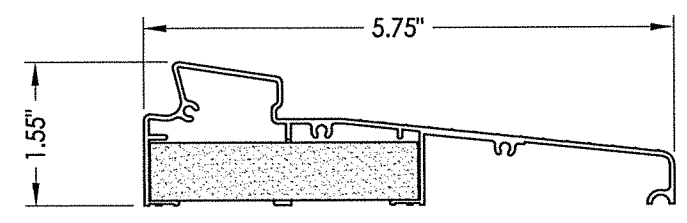
**39 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill



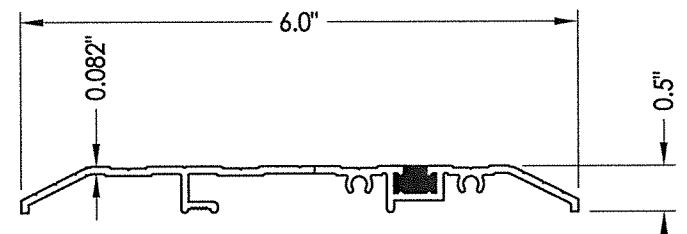
**17 OUTSWING THRESHOLD**  
Composite / Aluminum Sill



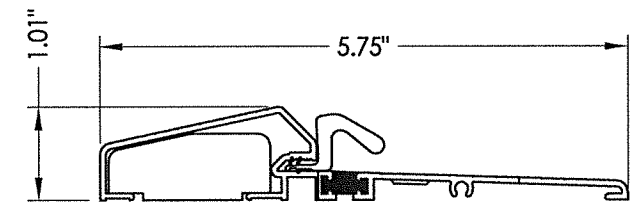
**2 INTEGRAL MULLION**



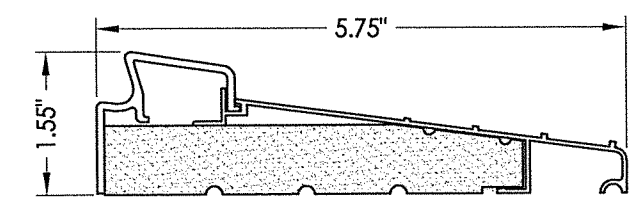
**35 INSWING THRESHOLD**  
Inswing Moderate Climate Sill



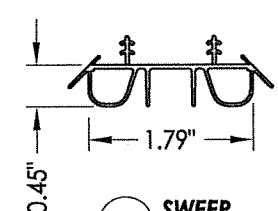
**15 PUBLIC ACCESS THRESHOLD**



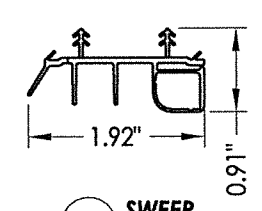
**18 OUTSWING THRESHOLD**  
Composite / Aluminum Sill  
(Thermal Break)



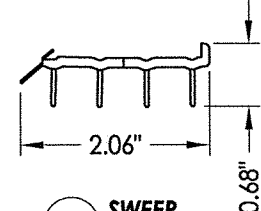
**36 INSWING THRESHOLD**  
Inswing Basic Fixed 5-3/4" Sill



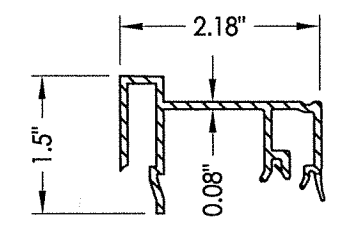
**8 SWEEP**



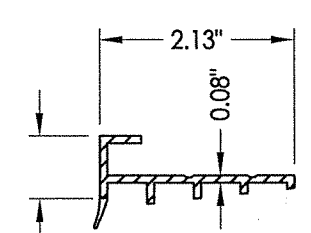
**9 SWEEP**



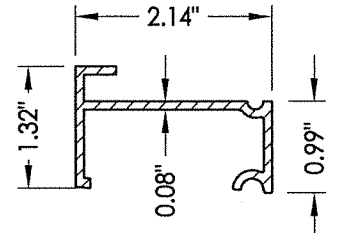
**10 SWEEP**



**75 SIDELITE SPACER**  
Inswing



**76 SIDELITE SPACER**  
Outswing



**77 SIDELITE SPACER**  
Inswing  
Moderate Climate Threshold

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR  
PART OR ASSEMBLY:  
COMPONENTS

NO.	DATE	REVISIONS	LFS	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE	LFS	BY

DATE: 11/27/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4769  
SHEET 11 OF 12

