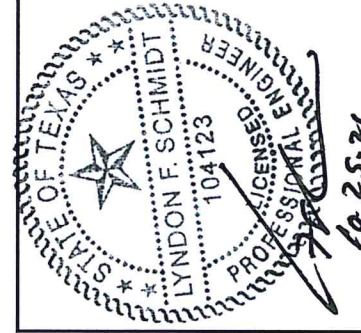




215 EAST ROOSEVELT AVE.  
ZEELAND, MI 49464

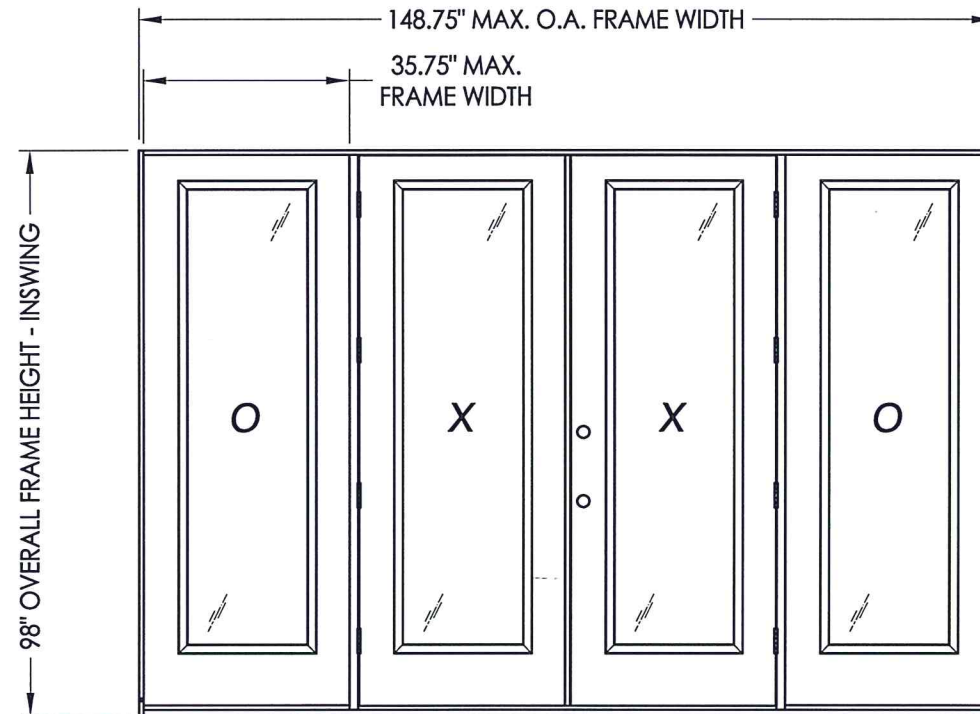
# FIBERGLASS ENTRY DOOR IN SWING "IMPACT"



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



**CONTINUOUS HEAD & SILL**

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING	
		POSITIVE	NEGATIVE
OXXO	148.75" x 98.0"	+45.0	-50.0

**EVALUATED FOR USE IN THE STATE OF TEXAS**

**TDI DR-691**

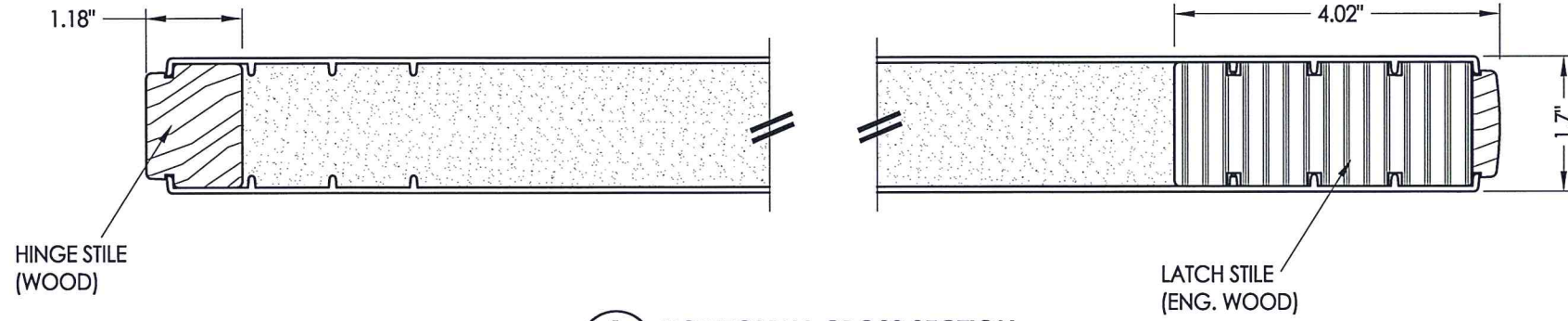
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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 panels require the use of "J" part numbers. These door panels must be stained or painted within six months of installation.

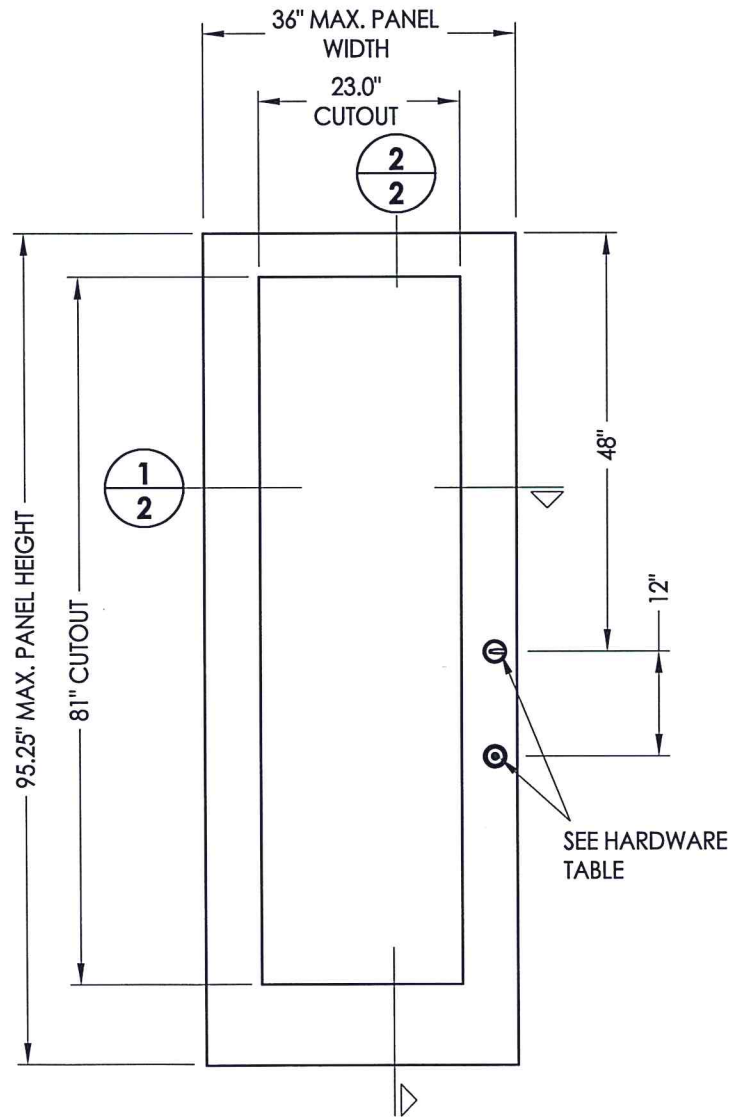
**TABLE OF CONTENTS**

SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door/Sidelite panel details
3	Lite frame and glazing details
4	Elevation & hardware table
5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Frame anchoring
9	Astragal details
10	Bill of materials & components

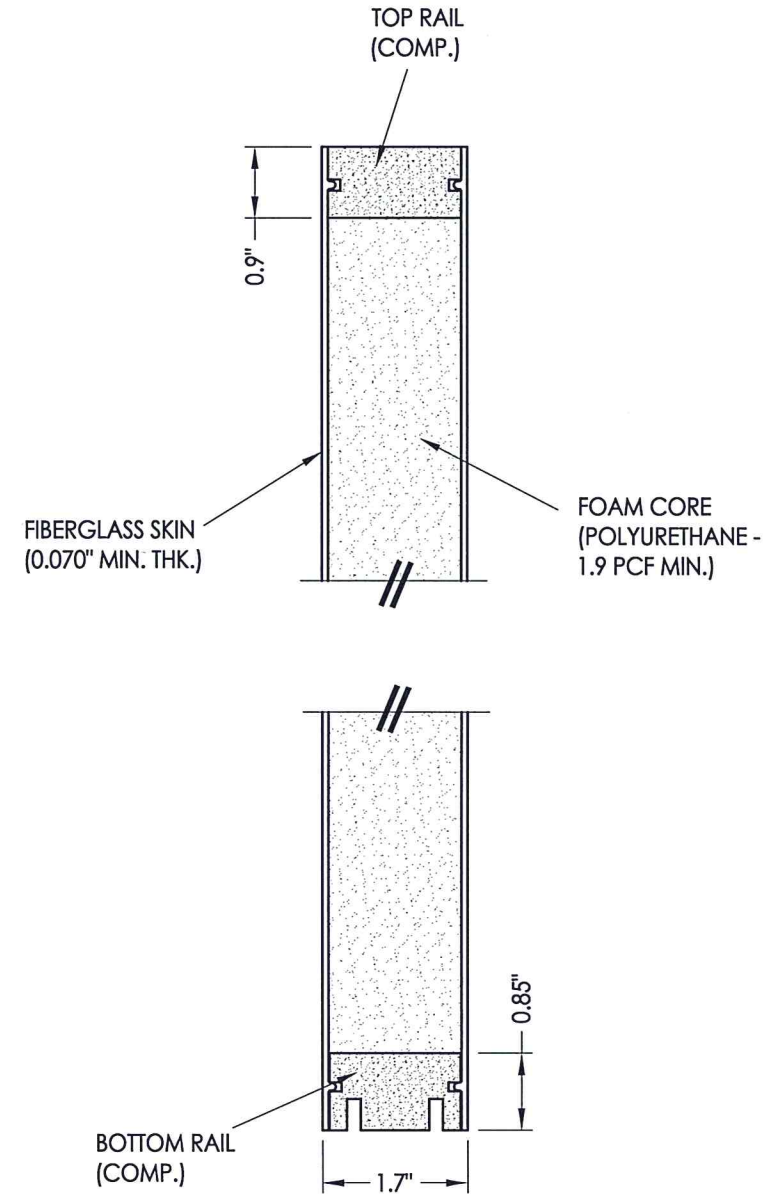
PRODUCT: FIBERGLASS DOOR	
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
3	10/25/21 UPDATE TO 2018 IRC/IRC
2	5/30/18 ADD FLAT FRAME LITE PROFILE
1	12/14/15 ADD H.S. GLAZING OPTION
NO.	DATE
REVISIONS	
DATE: 6/13/13	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4337	
SHEET 1 OF 10	



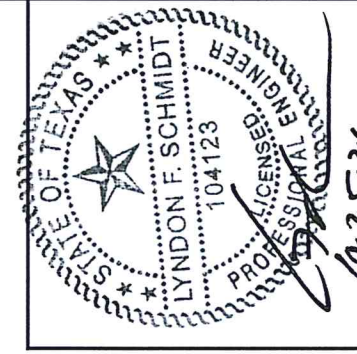
**1**  
**2** HORIZONTAL CROSS SECTION



- 40** DOOR PANEL  
Smooth Star (Therma-Tru)
- 50** SIDELITE PANEL  
Smooth Star (Therma-Tru)



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



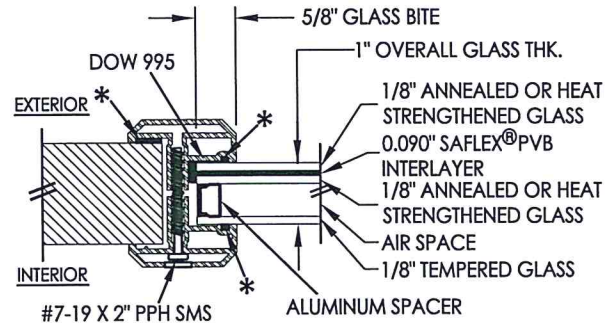
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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P.O. Box 230 Vairico FL 33595  
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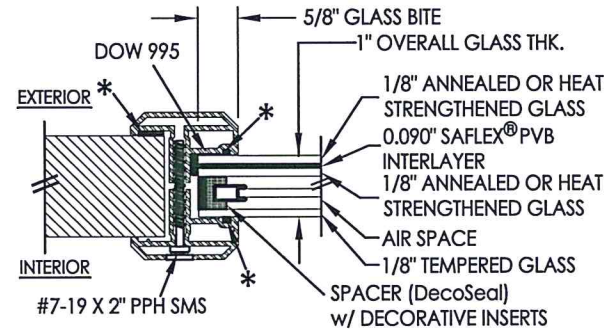
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		DOOR/SIDELITE PANEL DETAILS	
NO.	DATE	BY	REVISIONS
3	10/25/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/30/18	LFS	ADD FLAT FRAME LITE PROFILE
1	12/14/15	JK	ADD H.S. GLAZING OPTION
DATE: 6/13/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4337			
SHEET 2 OF 10			

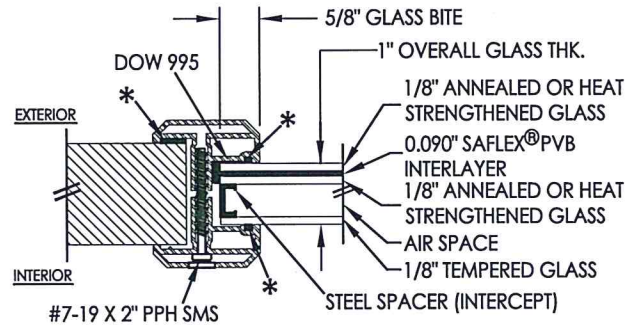




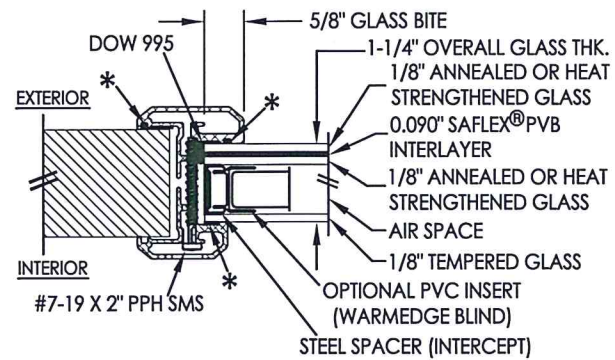
**G1 GLAZING DETAIL**  
Flat Frame Profile



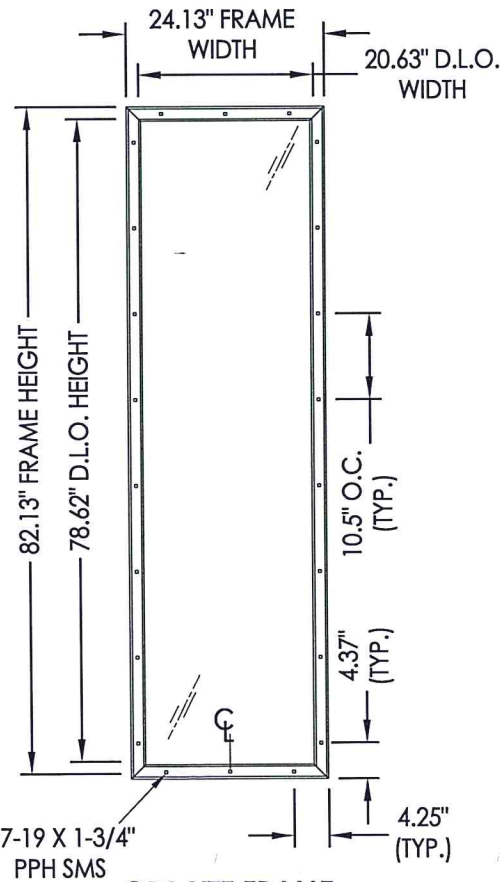
**G3 GLAZING DETAIL**  
Flat Frame Profile



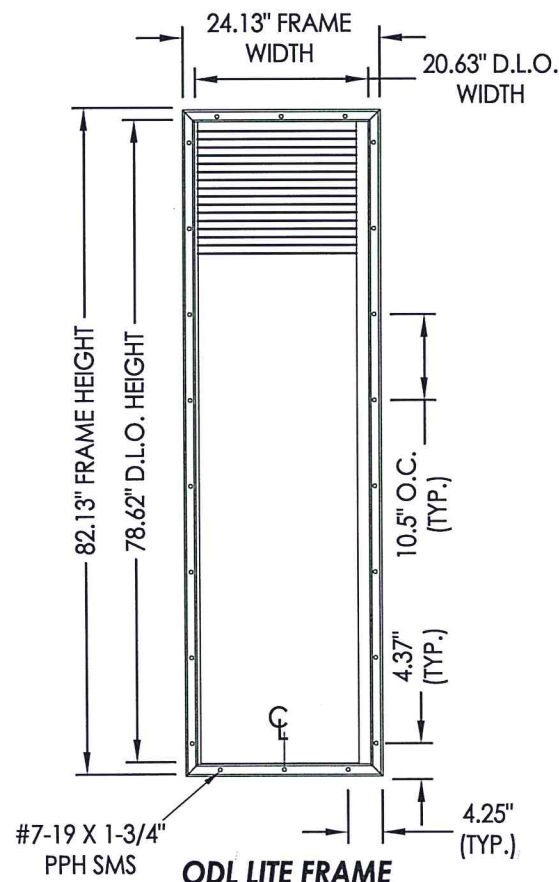
**G2 GLAZING DETAIL**  
Flat Frame Profile



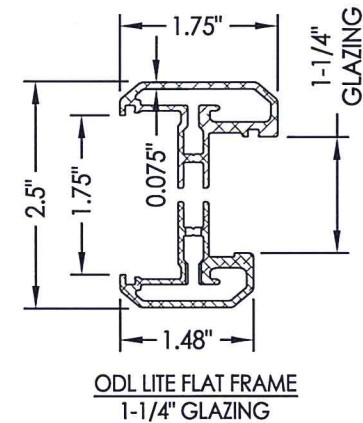
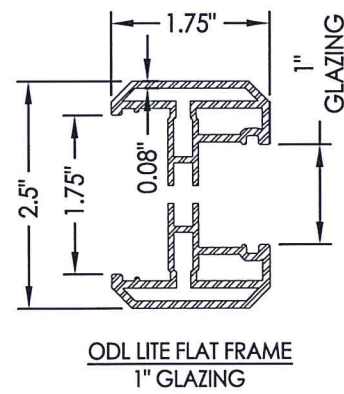
**G4 GLAZING DETAIL**  
Flat Frame Profile  
w/ Blinds Between Glass



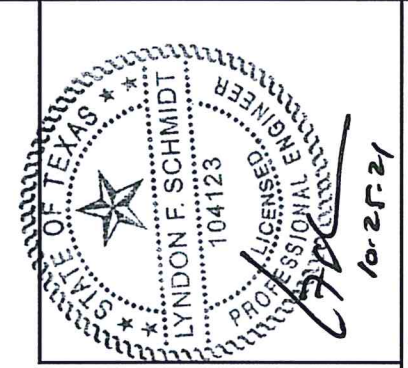
**ODL LITE FRAME**  
"Flat Frame" Aluminum



**ODL LITE FRAME**  
"Flat Frame" Aluminum  
w/ Blinds Between Glass



\* NON-STRUCTURAL BACKBEDDING (READI-SEAL)



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

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

NO.	DATE	REVISIONS
3	10/25/21	UPDATE TO 2018 IBC/IRC
2	5/30/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION
		NO. DATE
		BY

DATE: 6/13/13

SCALE: N.T.S.

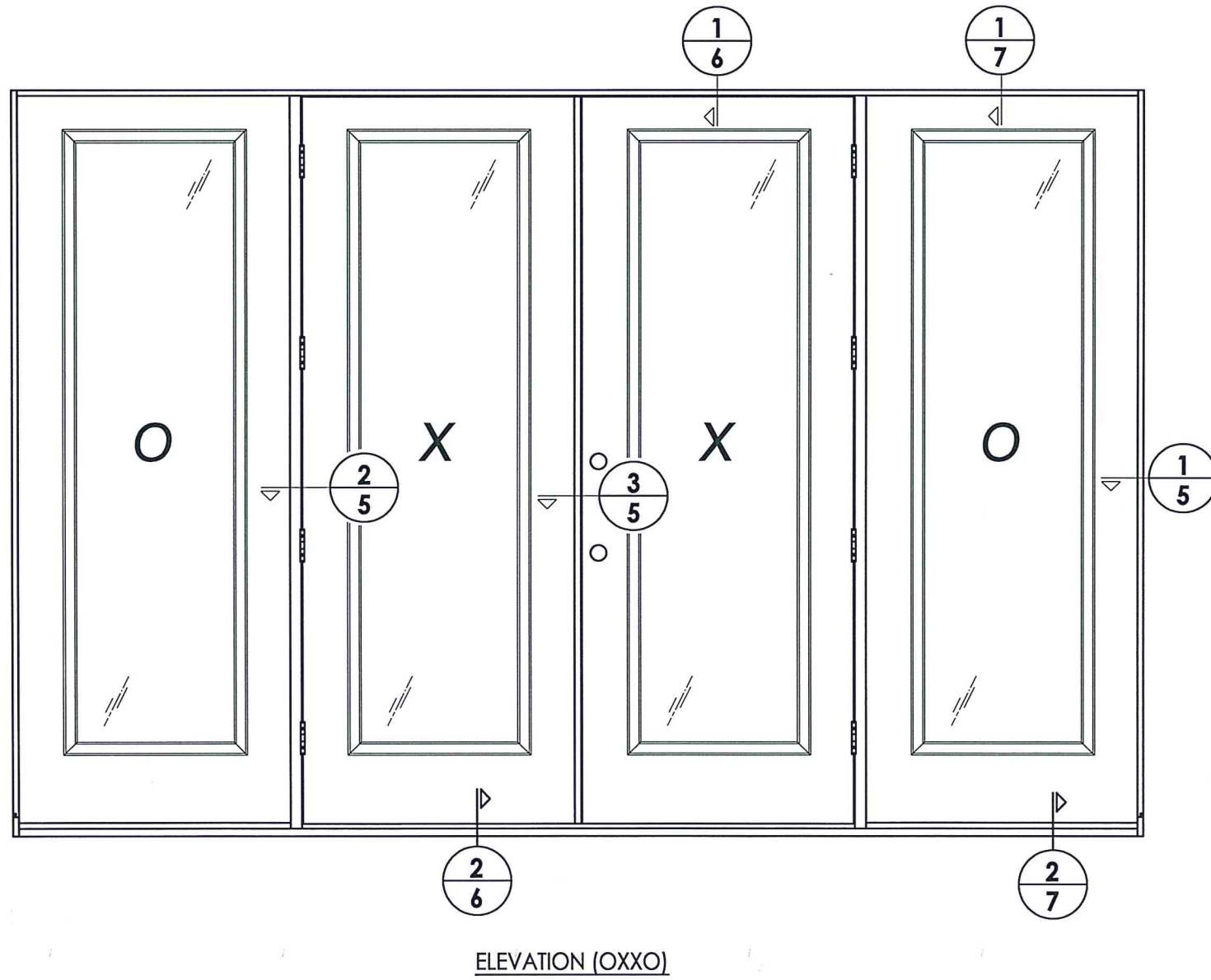
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

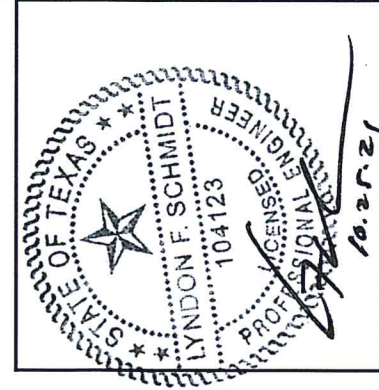
TX-4337

SHEET 3 OF 10



HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	KNOB:	"F" SERIES (F60)
	DEADBOLT:	"B" SERIES (B60/62)
PAMEX	KNOB:	"FT" SERIES
	DEADBOLT:	"FD7" SERIES

\* MAX. DESIGN PRESSURE FOR PAMEX LOCK  
INSWING = +30/-30 PSF



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Phone No.: 813.659.9197

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

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: ELEVATION & HARDWARE TABLE

NO.	DATE	BY
3	10/25/21	LFS
2	5/30/18	LFS
1	12/14/15	JK

DATE: 6/13/13

SCALE: N.T.S.

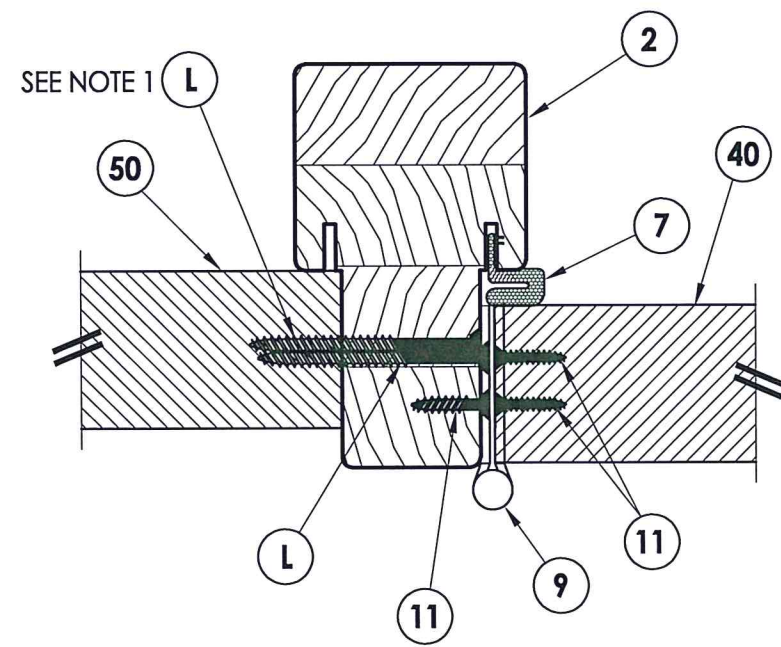
DWG. BY: JK

CHK. BY: LFS

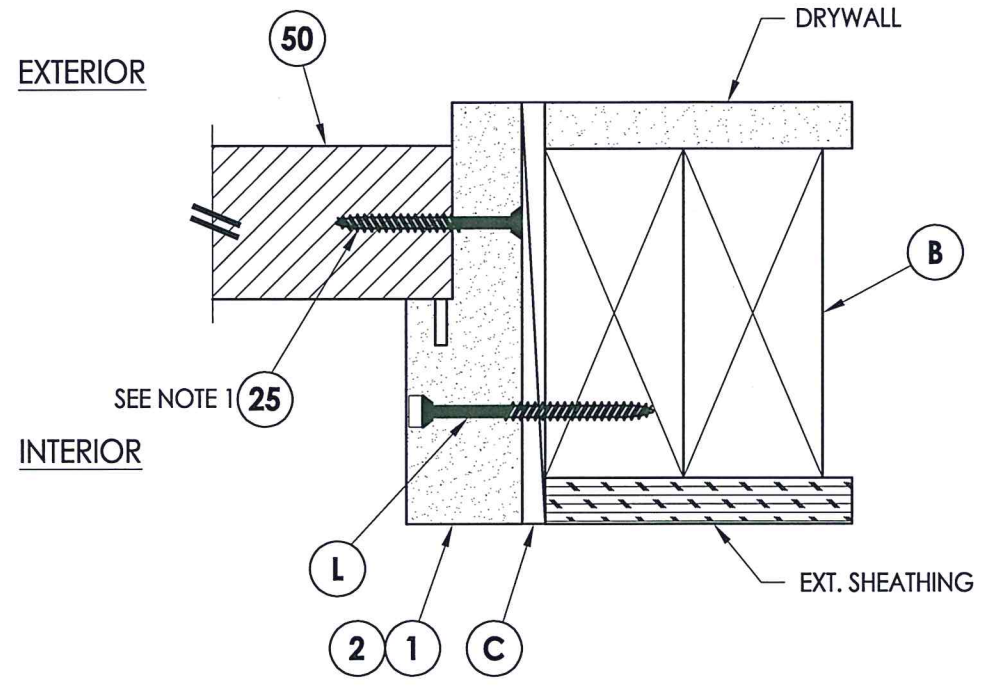
DRAWING NO.: TX-4337

SHEET 4 of 10

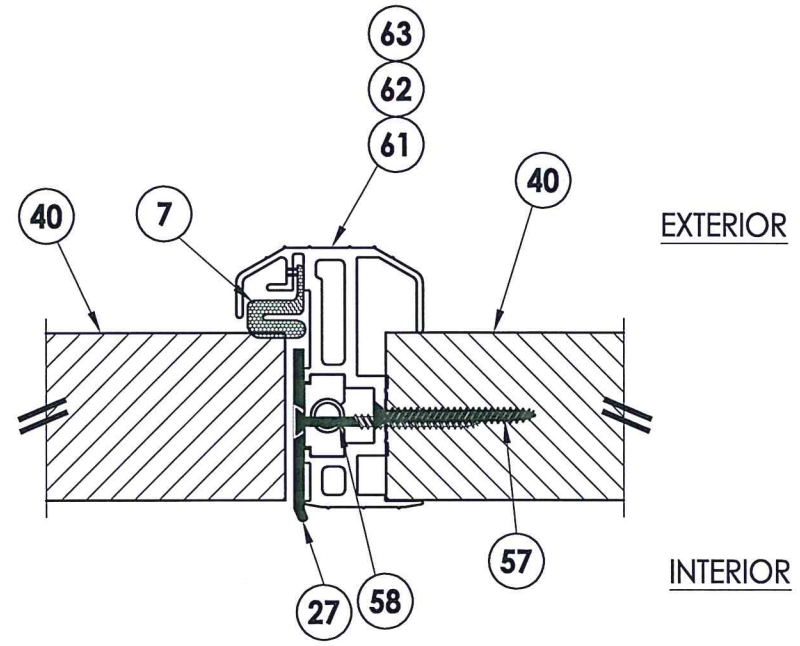




**2** HORIZONTAL CROSS SECTION  
**5**

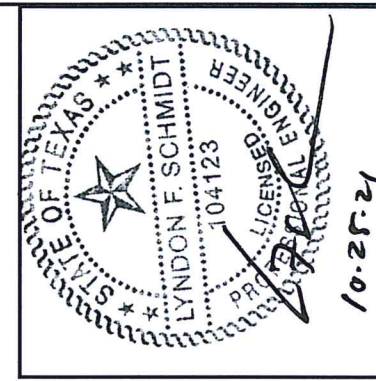


**1** HORIZONTAL CROSS SECTION  
**5**



**3** HORIZONTAL CROSS SECTION  
**5**

**NOTE:**  
1. Sidelite panel screws located 6" from each end plus 4 more equally spaced (6 screws total).



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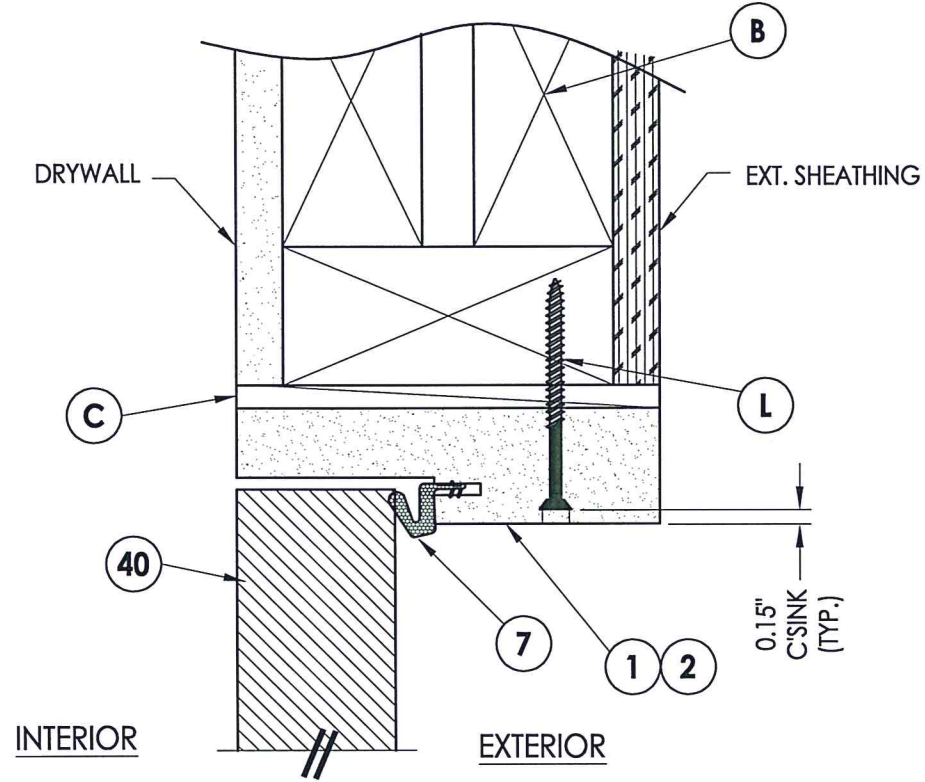
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR

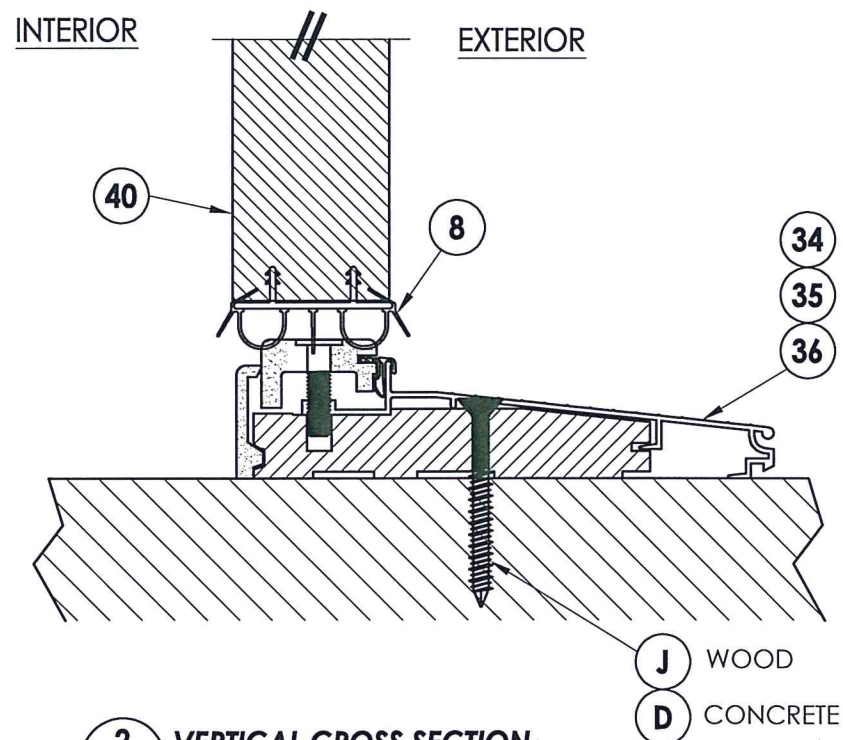
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	10/25/21	UPDATE TO 2018 IBC/IRC
2	5/30/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION

DATE: 6/13/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4337  
SHEET 5 of 10

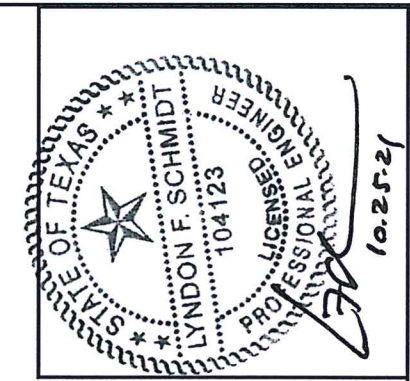


1  
6 VERTICAL CROSS SECTION



2  
6 VERTICAL CROSS SECTION

J WOOD  
D CONCRETE



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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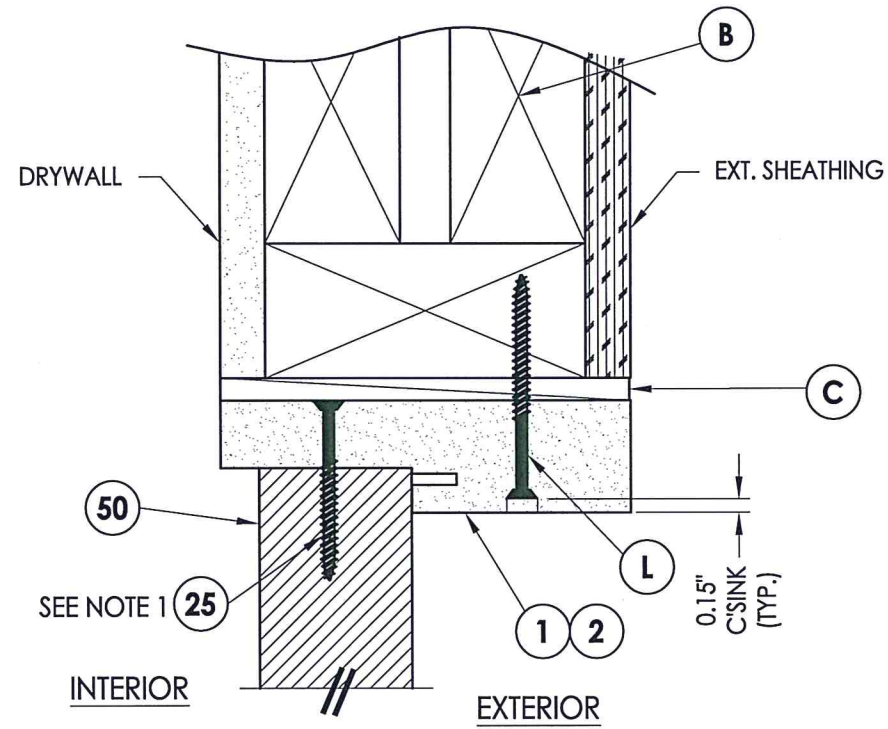
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL, 33595  
Phone No.: 813.659.9197  
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR  
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

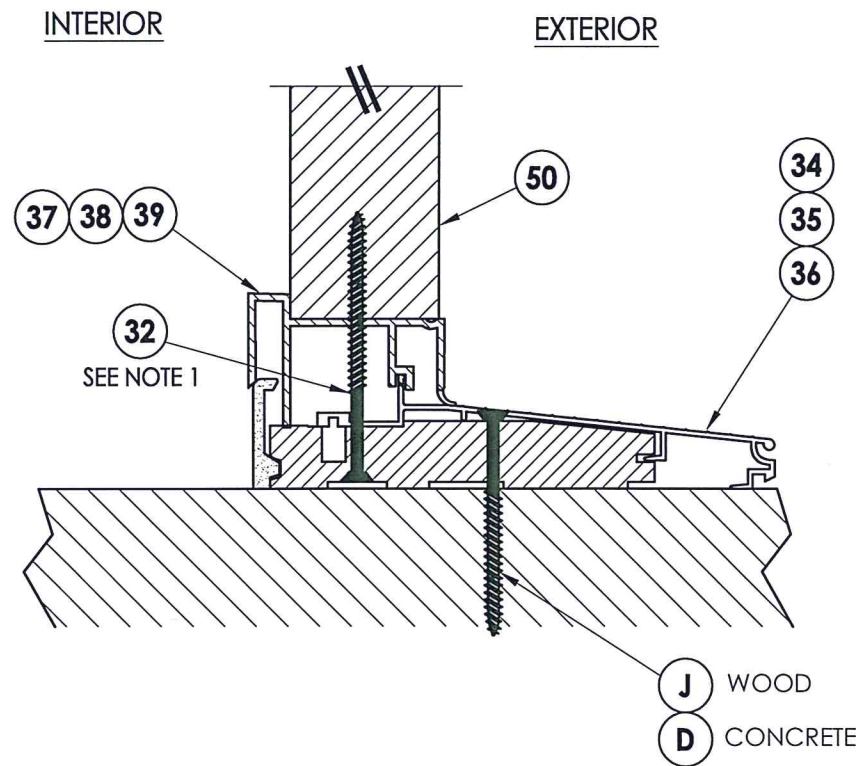
NO.	DATE	REVISIONS
3	10/25/21	UPDATE TO 2018 IBC/IRC
2	5/30/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION

DATE: 6/13/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4337  
SHEET 6 OF 10





**1**  
**7** VERTICAL CROSS SECTION



**2**  
**7** VERTICAL CROSS SECTION  
Inswing configuration

NOTE:  
1. Sidelite panel screws located 6" from each end (2 Total).



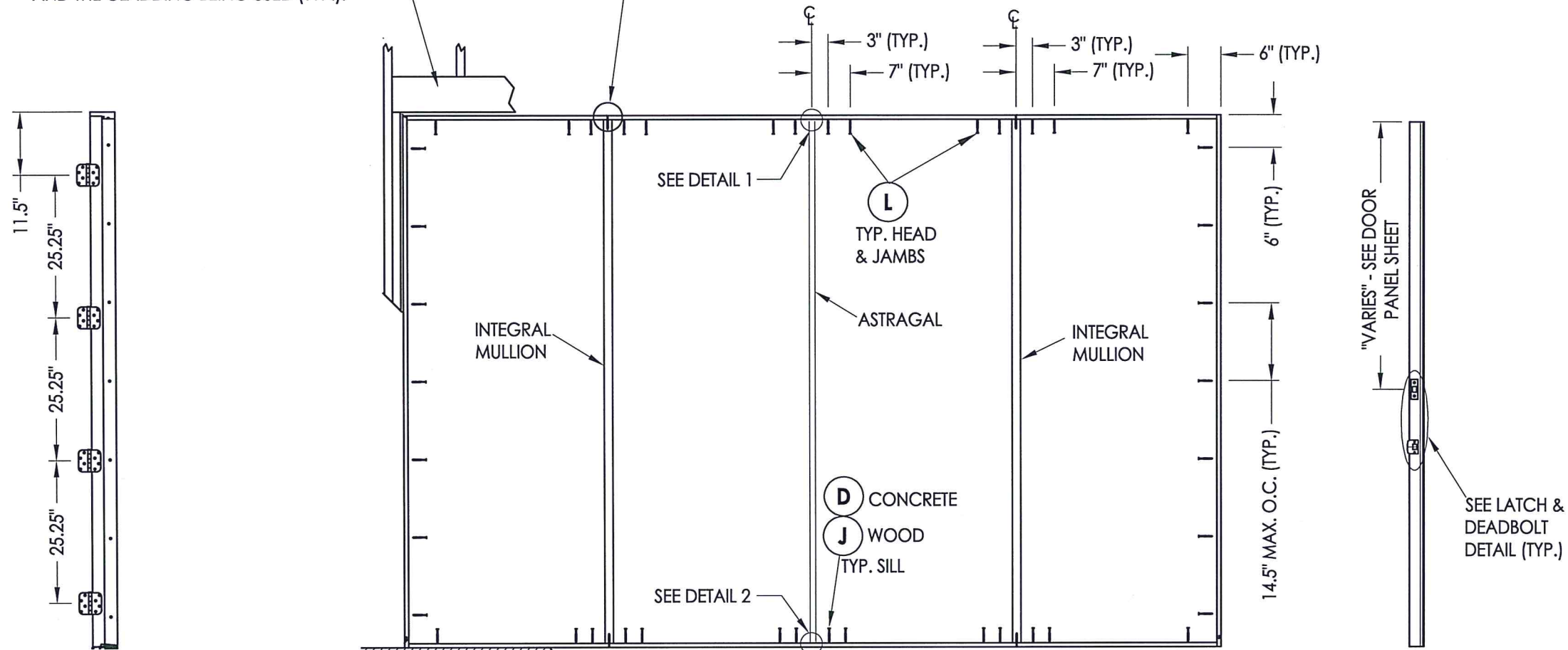
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
3	10/25/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/30/18	LFS	ADD FLAT FRAME LITE PROFILE
1	12/14/15	JK	ADD H.S. GLAZING OPTION
DATE: 6/13/13		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: TX-4337		SHEET 7 OF 10	

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED (TYP.).

SEE INTEGRAL MULLION ATTACHMENT DETAIL (TYP. EACH END OF EACH MULLION)

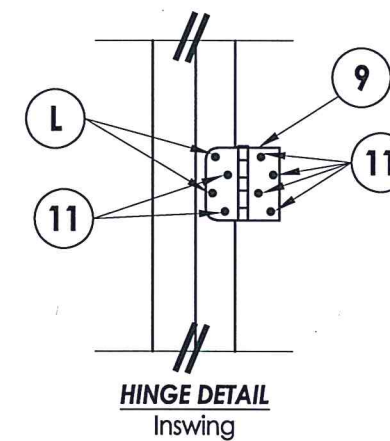
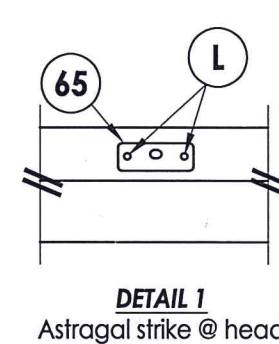
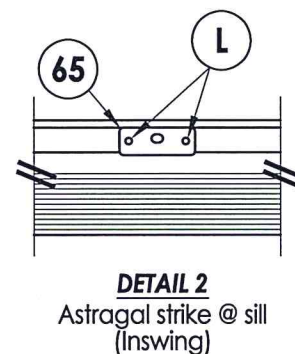
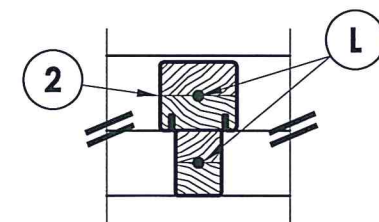
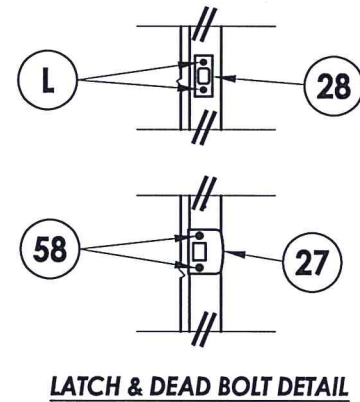


**HINGE LOCATIONS**

FLOOR SUBSTRATE MATERIAL (TYP.)  
 CONCRETE (MIN. 3000 PSI)  
 WOOD (G >= 0.42)

**FRAME ANCHORING**  
 OXXO

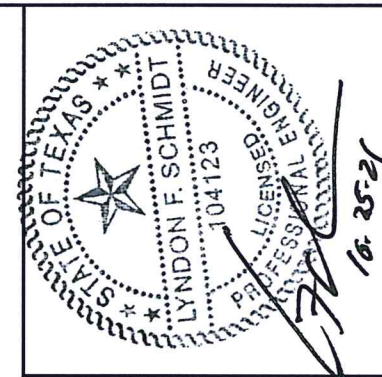
**ASTRAGAL STRIKE JAMB**



**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"	1-1/2"	4"
DeWALT ULTRACON+®	1/4"	1-3/4"	1"	3"



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 TEXAS P.E. #104123

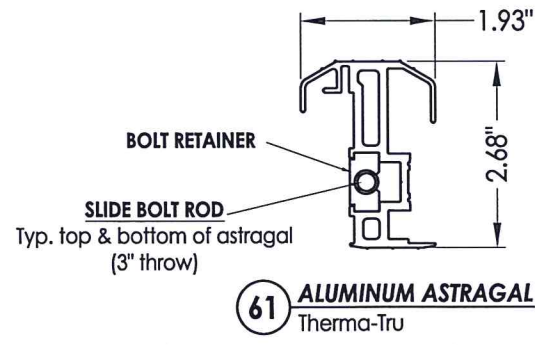
**RW** BUILDING CONSULTANTS, INC.  
 P.O. Box 230 Valrico FL, 33595  
 Phone No.: 813.659.9197  
 TEXAS BOARD OF PROFESSIONAL ENGINEERS  
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR  
 PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	10/25/21	UPDATE TO 2018 IBC/IRC
2	5/30/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION

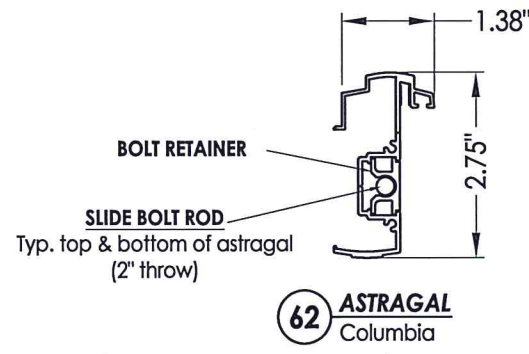
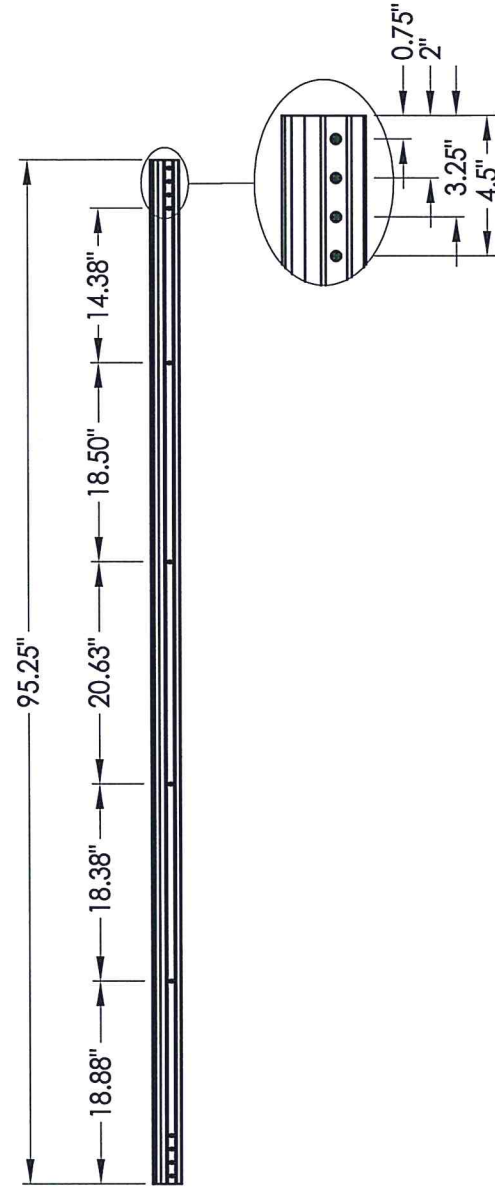
DATE: 6/13/13  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: TX-4337  
 SHEET 8 OF 10





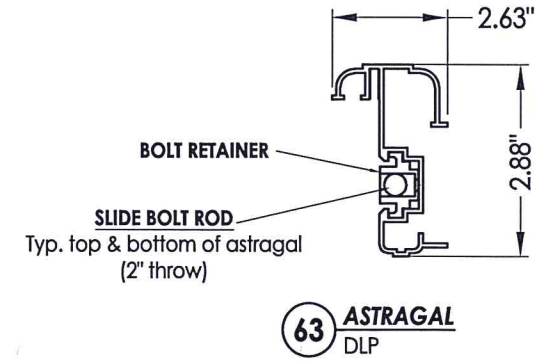
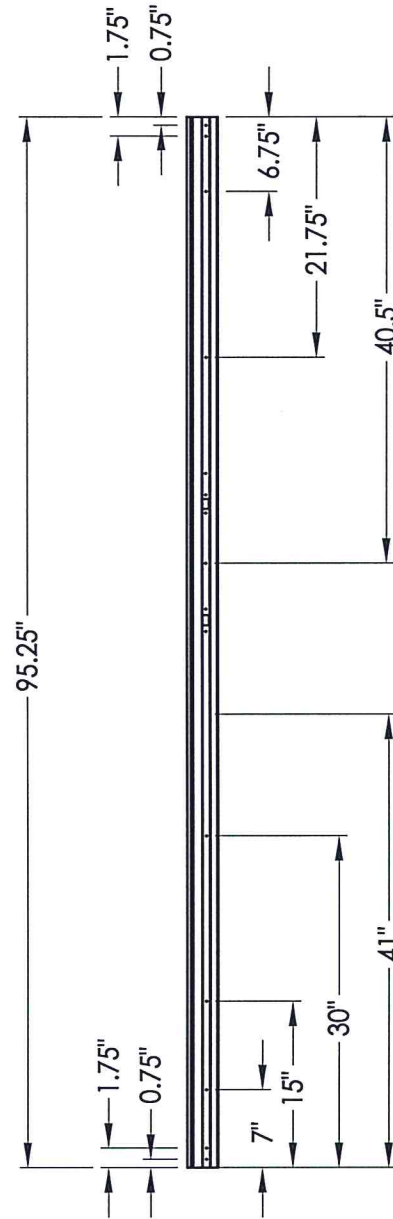
**8'0 ALUMINUM ASTRAGAL ASSEMBLY**  
Therma-Tru

ASTRAGAL SCREW LOCATIONS



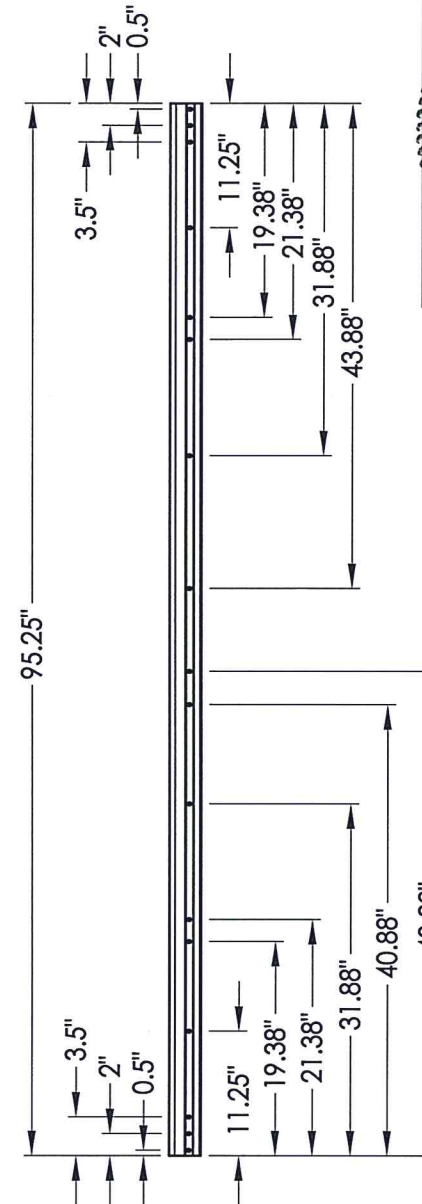
**8'0 ALUMINUM ASTRAGAL ASSEMBLY**  
Columbia

ASTRAGAL SCREW LOCATIONS

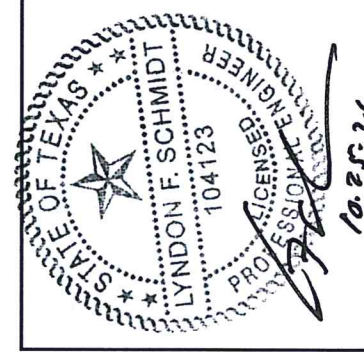


**8'0 ALUMINUM ASTRAGAL ASSEMBLY**  
DLP

ASTRAGAL SCREW LOCATIONS



**63 ASTRAGAL**  
DLP



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

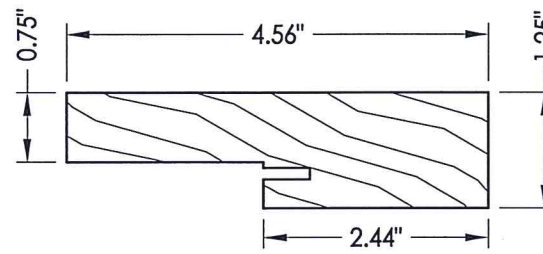
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vairco FL 33595  
Phone No.: 813.659.9197

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

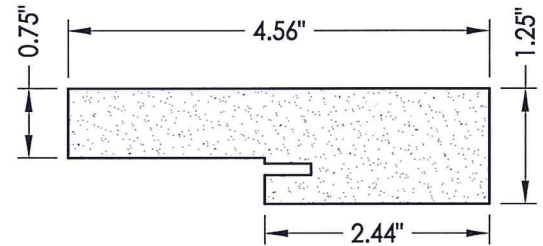
PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		ASTRAGAL DETAILS	
NO.	DATE	BY	REVISIONS
3	10/25/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/30/18	LFS	ADD FLAT FRAME LITE PROFILE
1	12/14/15	JK	ADD H.S. GLAZING OPTION
DATE: 6/13/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4337			
SHEET 9 OF 10			



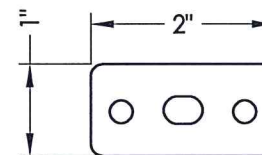
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMB.)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
1	HEAD & JAMB	WOOD
2	HEAD & JAMB	COMP
7	WEATHERSTRIP	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	4" X 4" HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#10 X 1-1/2" PFH WOOD SCREW	STEEL
25	#10 X 2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
32	#8 X 3" PFH WS	STEEL
34	INSWING THRESHOLD	ALUM/COMP
35	INSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
37	INSWING SIDELITE SEAT	PVC
38	INSWING SIDELITE SEAT	PVC
39	INSWING SIDELITE SEAT	PVC
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
57	#8 X 2" PPH SMS	STEEL
58	#8 X 2-1/2" PFH WOOD SCREW	STEEL
61	ASTRAGAL (THERMA-TRU)	ALUM
62	ASTRAGAL (COLUMBIA)	ALUM
63	ASTRAGAL (DLP)	ALUM
65	ASTRAGAL STRIKE PLATE	STEEL



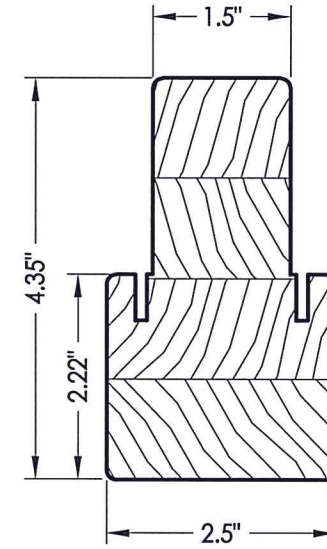
1 HEAD & JAMB  
Finger joint pine



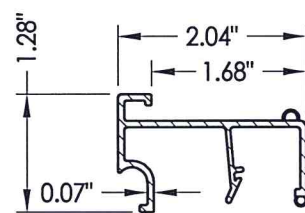
2 HEAD & JAMB  
Composite



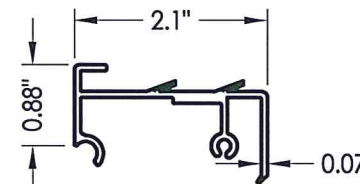
65 HEAD & SILL STRIKE PLATE



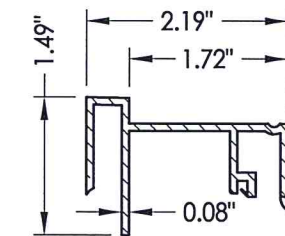
3 INTEGRAL MULLION



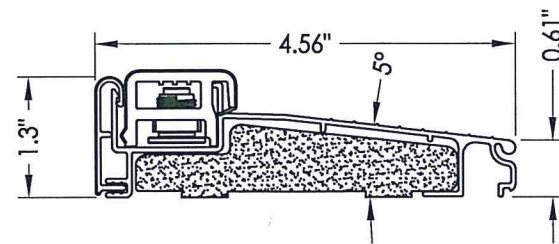
37 INSWING SIDELITE SEAT  
ENDURA 60 SERIES



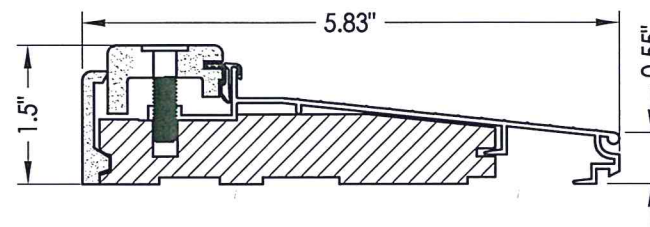
38 SIDELITE SPACER  
Columbia



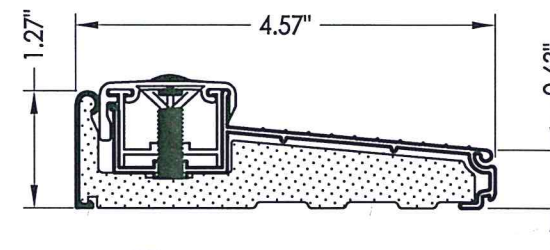
39 INSWING SIDELITE SEAT  
Therma-Tru



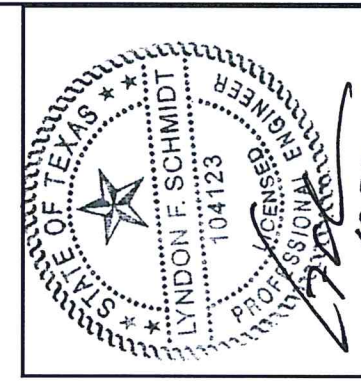
34 INSWING THRESHOLD  
ENDURA ZAIL 4565  
with Composite Substrate



35 INSWING THRESHOLD  
Therma-Tru



36 INSWING THRESHOLD  
Columbia 900 Series



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TEXAS P.E. #104123

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PRODUCT: FIBERGLASS DOOR  
PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS	BY
3	10/25/21	UPDATE TO 2018 IBC/IRC	LFS
2	5/30/18	ADD FLAT FRAME LITE PROFILE	LFS
1	12/14/15	ADD H.S. GLAZING OPTION	JK

DATE: 6/13/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4337  
SHEET 10 OF 10