



215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

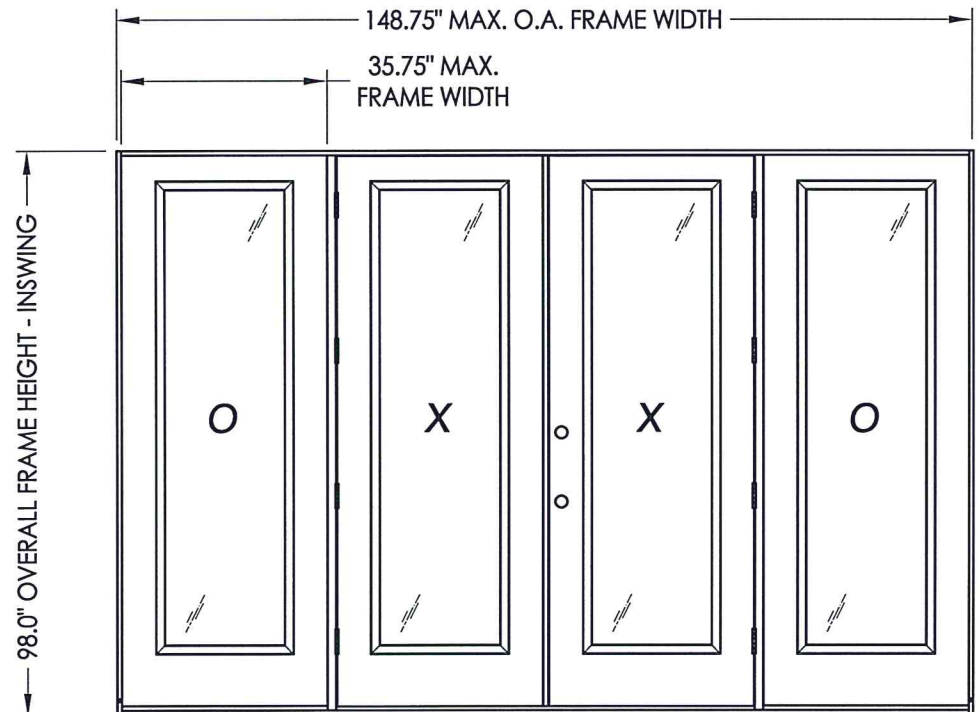
FIBERGLASS ENTRY DOOR INSWING "IMPACT"



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"	+35.0	-40.0

EVALUATED FOR USE IN THE STATE OF TEXAS

TDI DR-692

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.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door/Sidelite panel details
3	Life 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

NO.	DATE	REVISIONS
3	10/26/21	UPDATE TO 2018 IBC/IRC
2	5/31/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION

DATE: 6/13/13

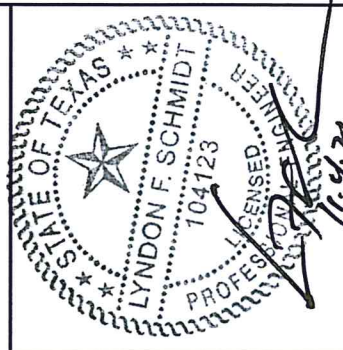
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4379

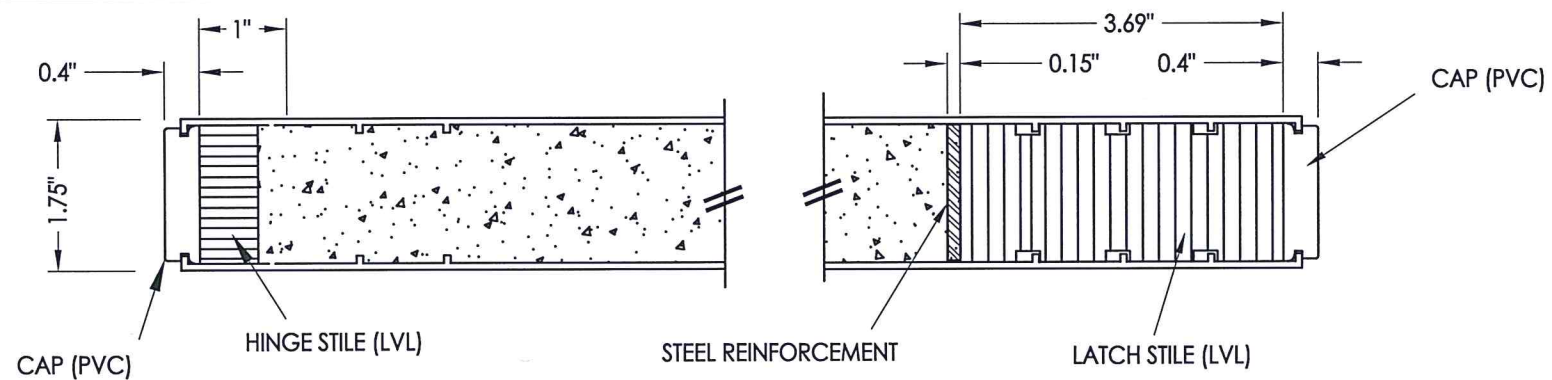
SHEET 1 of 10



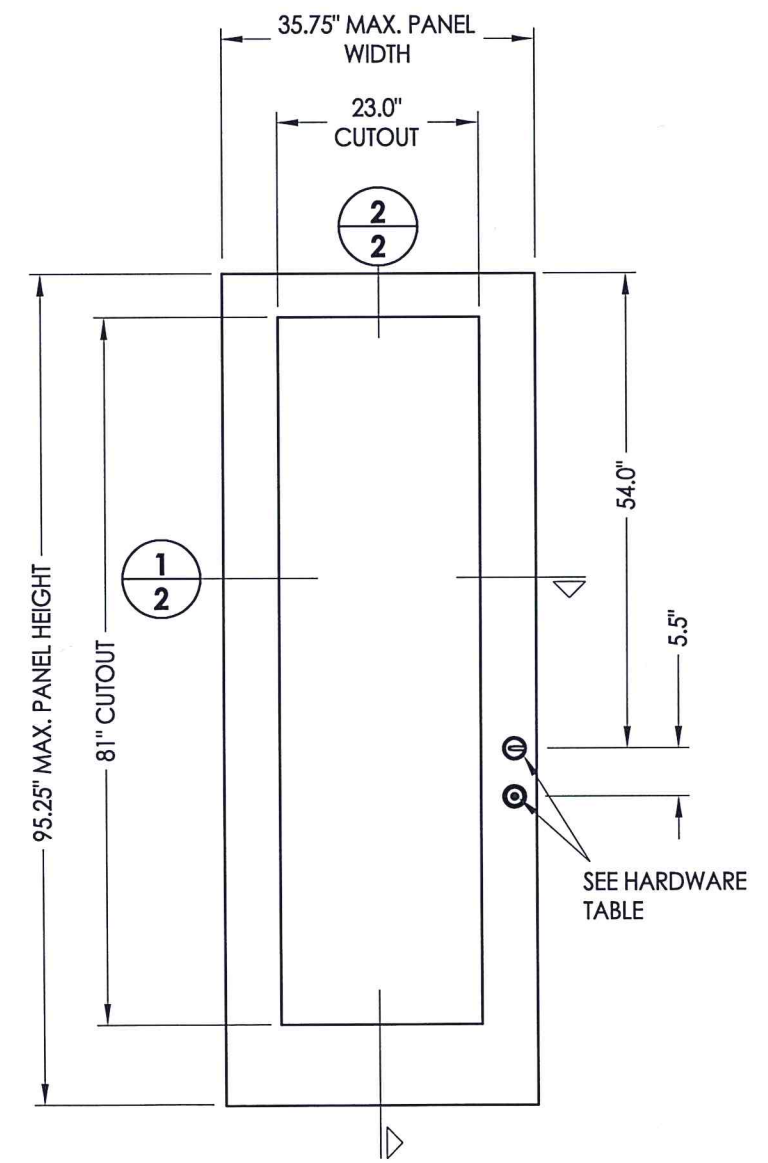
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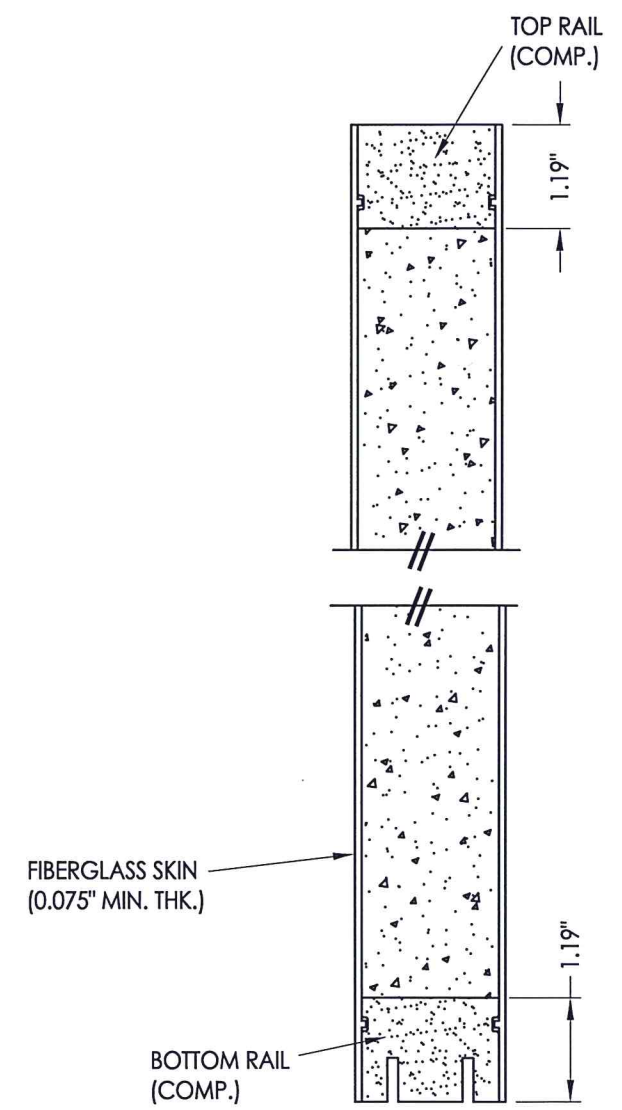
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1
2 HORIZONTAL CROSS SECTION



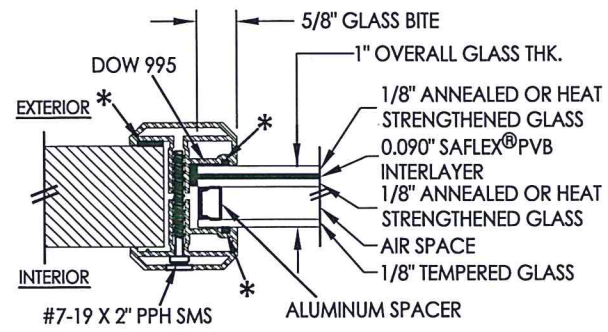
- 40** DOOR PANEL
Plastpro
- 50** SIDELITE PANEL
Plastpro



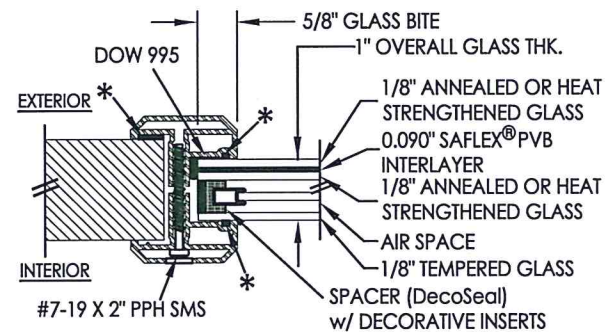
2
2 VERTICAL CROSS SECTION

PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		DOOR/SIDELITE PANEL DETAILS	
NO.	DATE	BY	REVISIONS
3	10/26/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/31/18	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-4379
SHEET 2 of 10

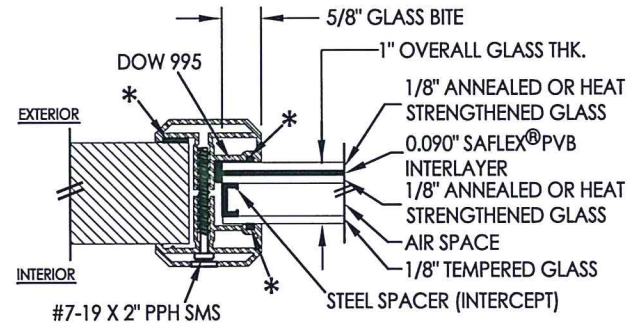


G1 GLAZING DETAIL
Flat Frame Profile

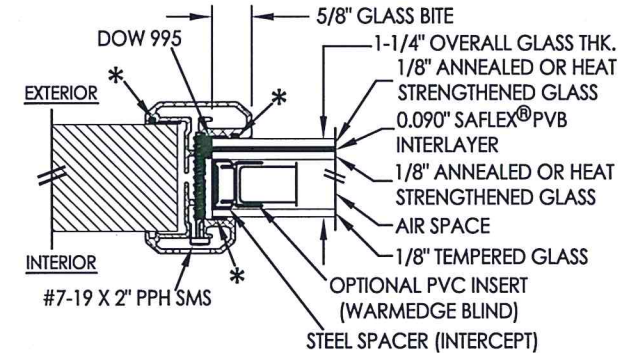


G3 GLAZING DETAIL
Flat Frame Profile

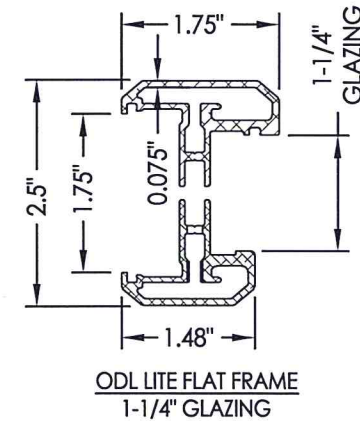
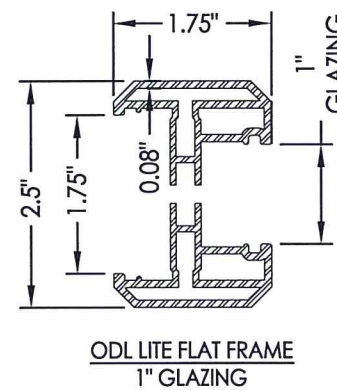
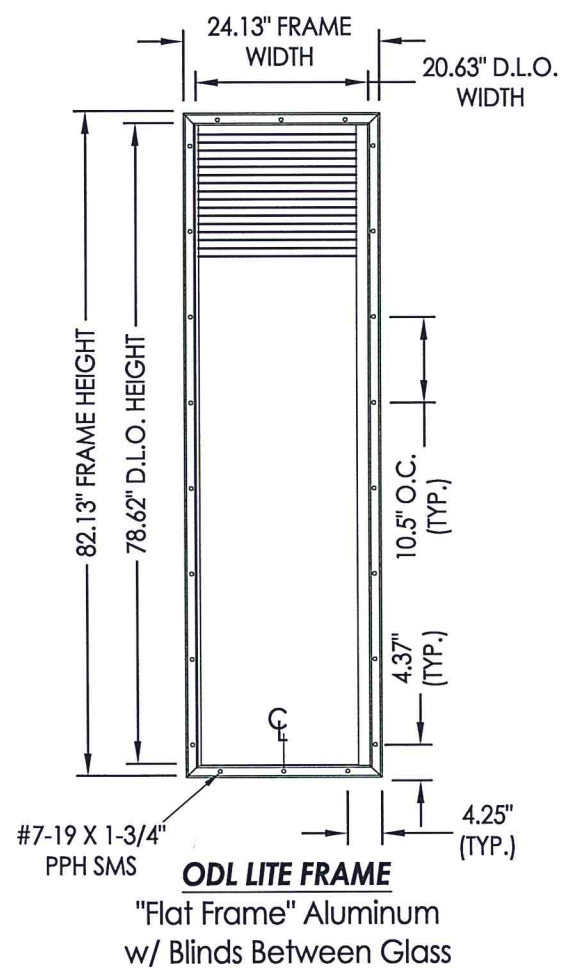
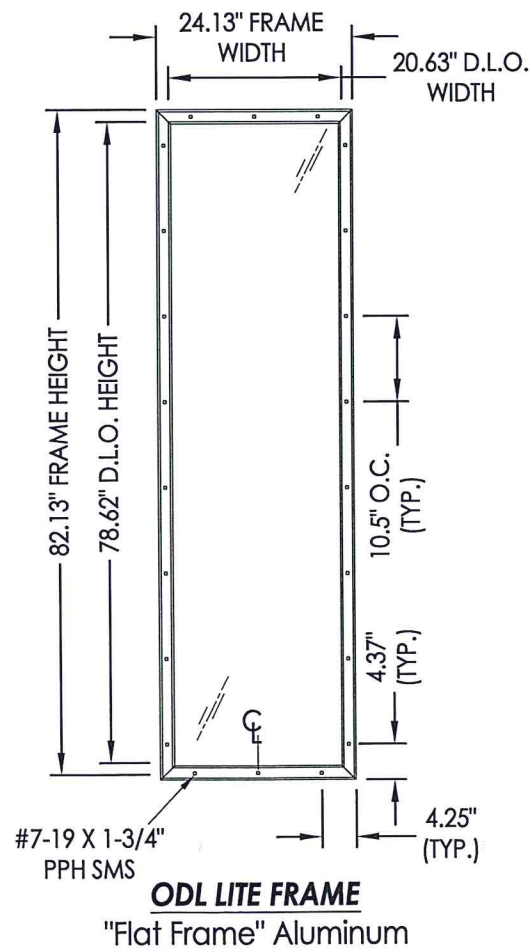
* NON-STRUCTURAL
BACKBEDDING
(READI-SEAL)



G2 GLAZING DETAIL
Flat Frame Profile



G4 GLAZING DETAIL
Flat Frame Profile
w/ Blinds Between Glass



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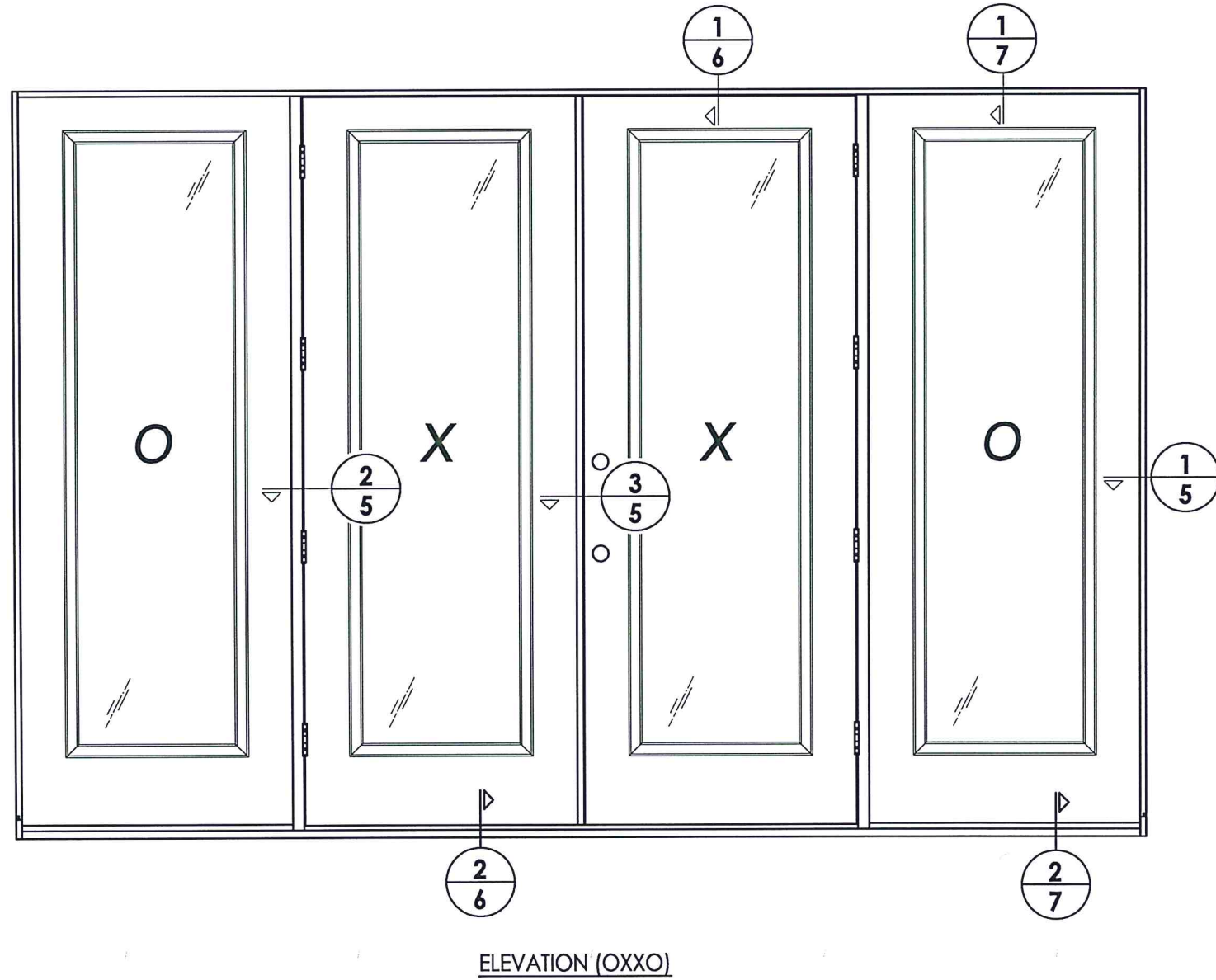
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: LITE FRAME & GLAZING DETAILS

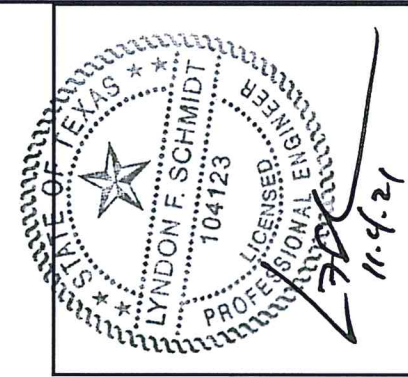
NO.	DATE	REVISIONS
3	10/26/21	UPDATE TO 2018 IBC/IRC
2	5/31/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION

DATE: 6/13/13
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DWG. BY: JK
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DRAWING NO.: TX-4379
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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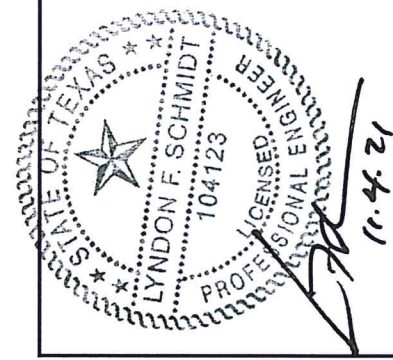
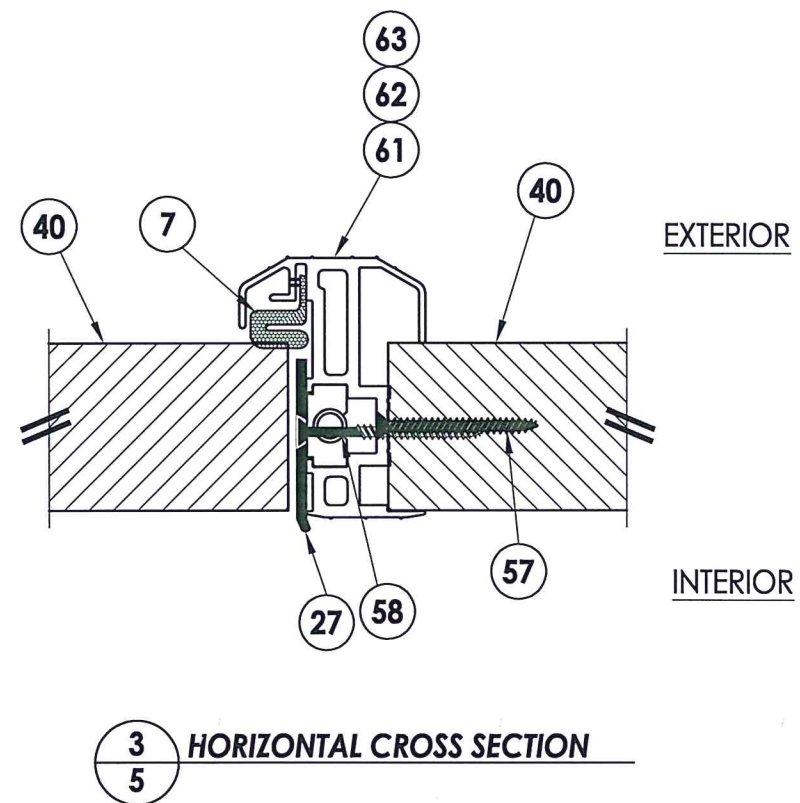
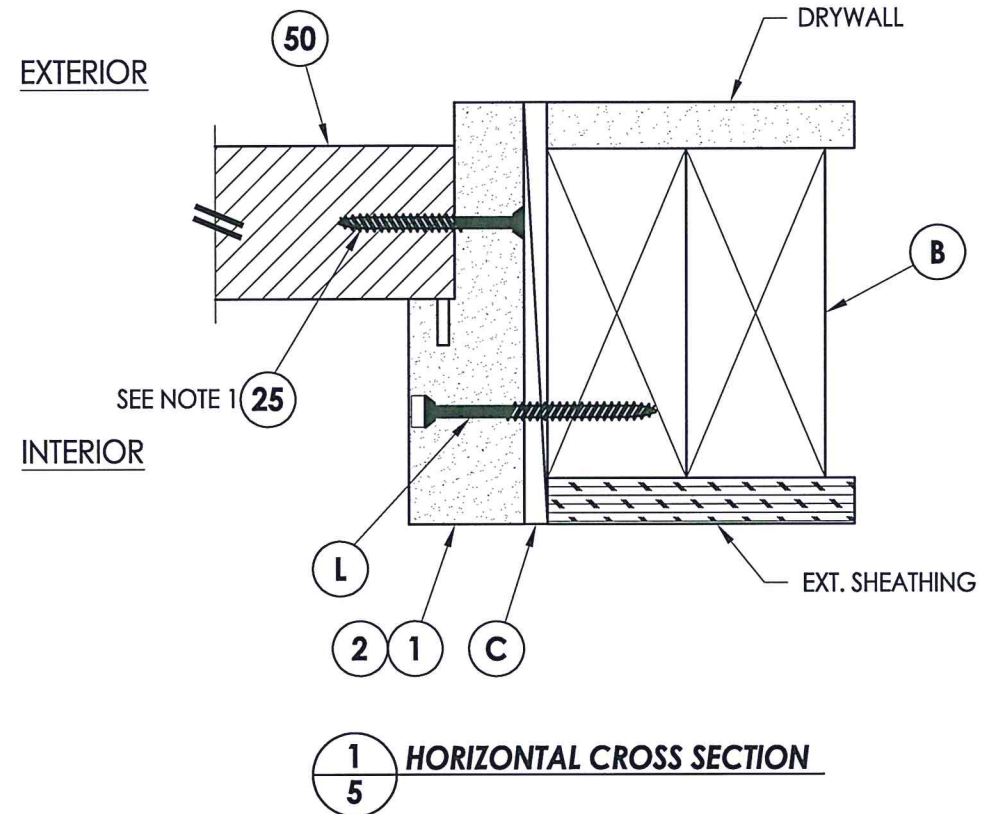
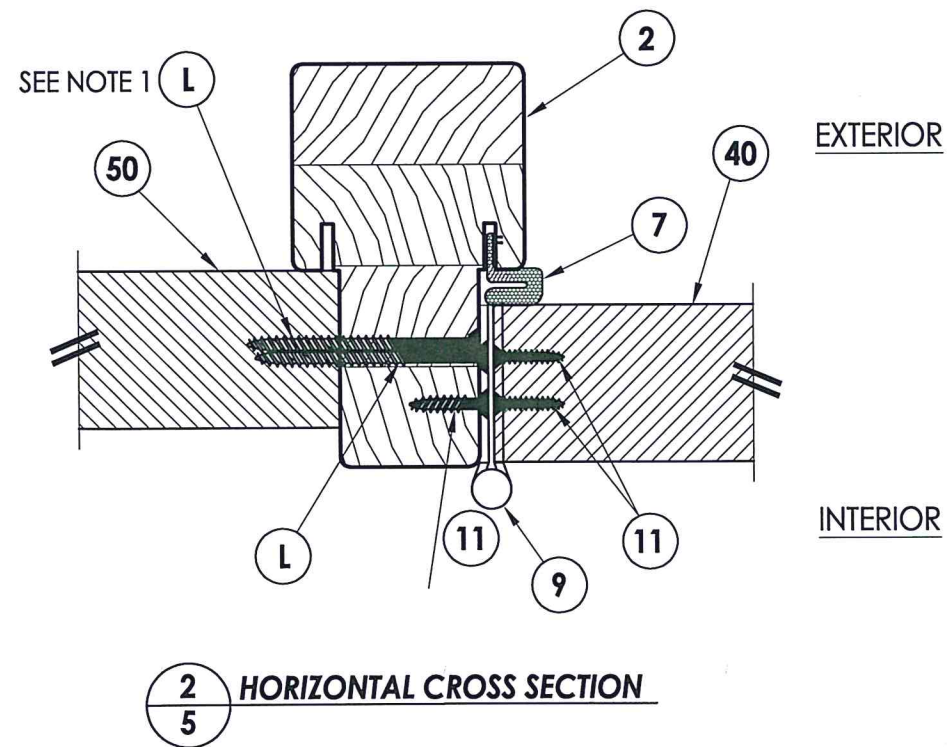
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197

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

PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: ELEVATION & HARDWARE TABLE

NO.	DATE	REVISIONS
3	10/26/21	UPDATE TO 2018 IBC/IRC
2	5/31/18	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-4379
SHEET 4 OF 10



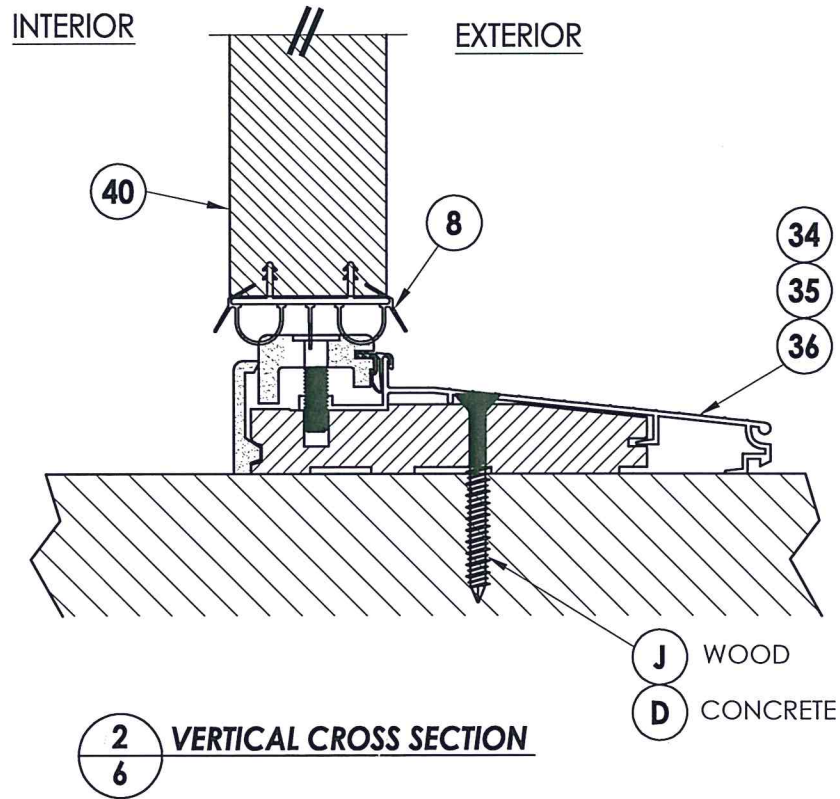
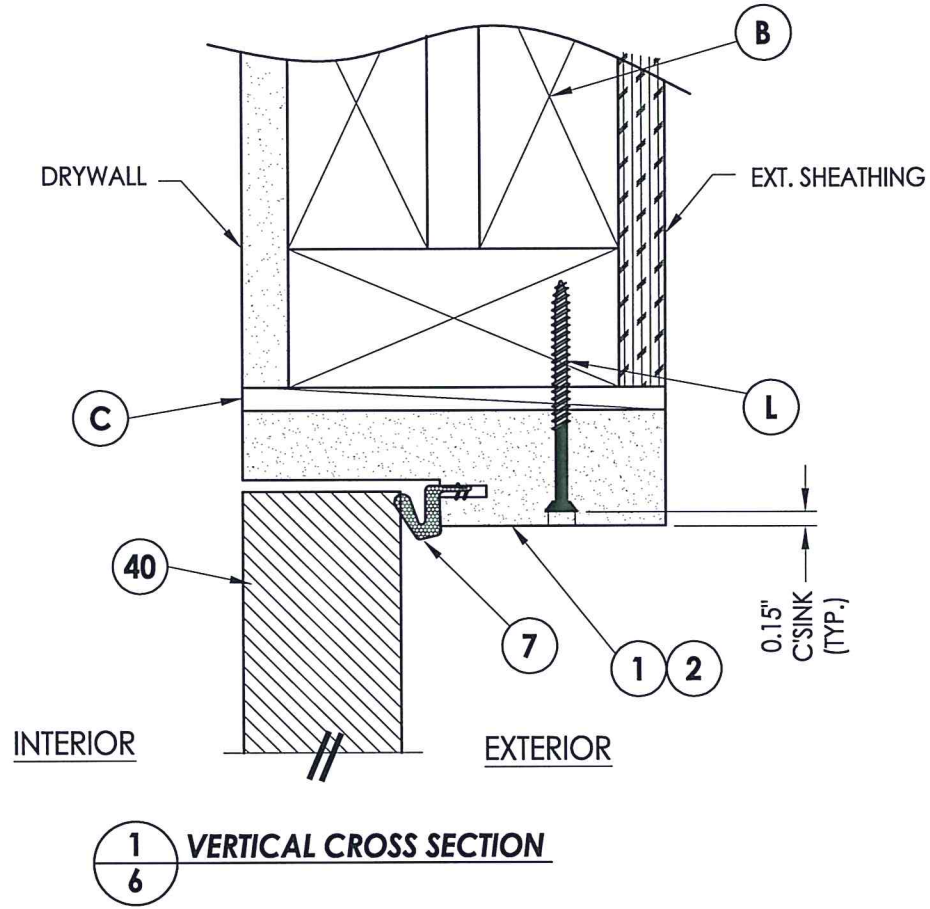
NOTE:
 1. Sidelite panel screws located 6" from each end plus 4 more equally spaced (6 screws total).

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PRODUCT:	FIBERGLASS DOOR	
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS
3	10/26/21	UPDATE TO 2018 IBC/IRC
2	5/31/18	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-4379	
SHEET	5 OF 10	



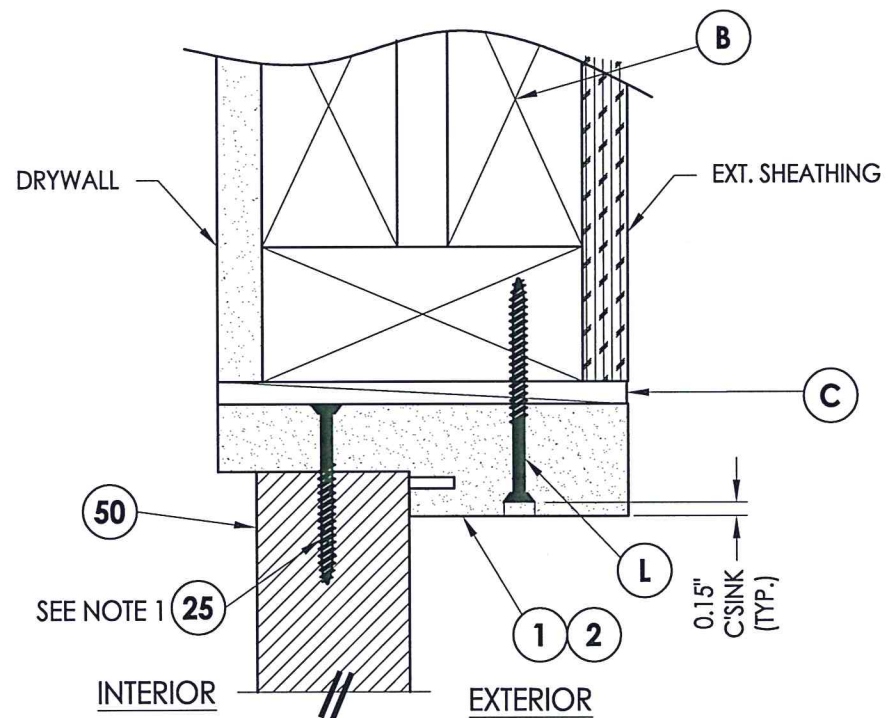
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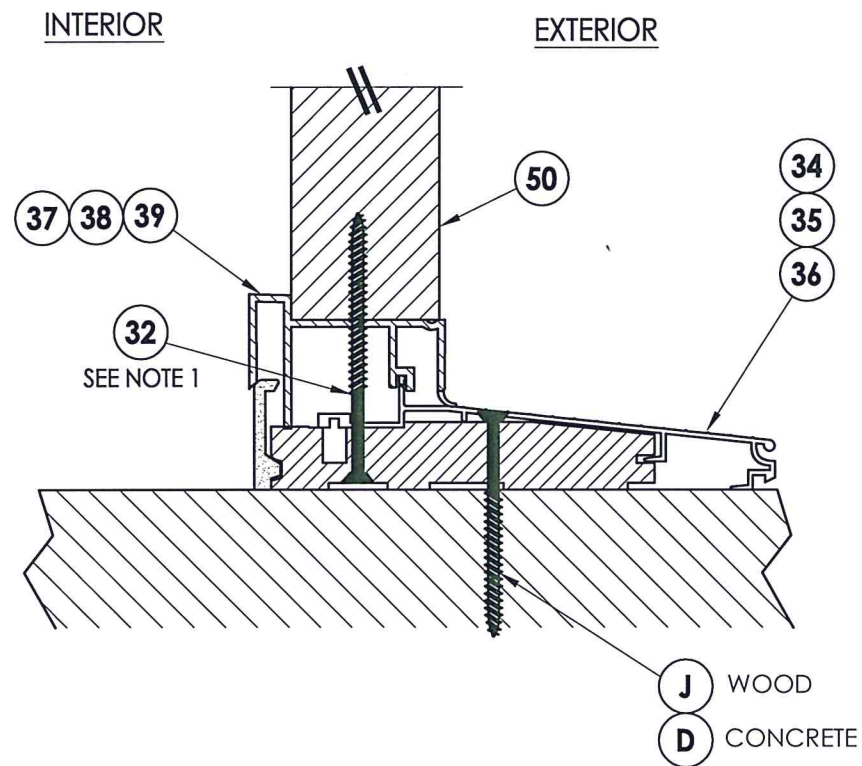
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS
3	10/26/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/31/18	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-4379
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).



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	FIBERGLASS DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

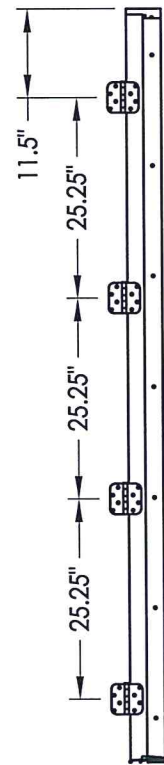
NO.	DATE	BY	REVISIONS
3	10/26/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/31/18	LFS	ADD FLAT FRAME LITE PROFILE
1	12/14/15	JK	ADD H.S. GLAZING OPTION

DATE: 6/13/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4379
SHEET 7 of 10

Z:\Clients\ODL, Inc. PERMANENT\B - Texas Dept of Ins\TDI - 692\Drawings\TX-4378-79.dwg

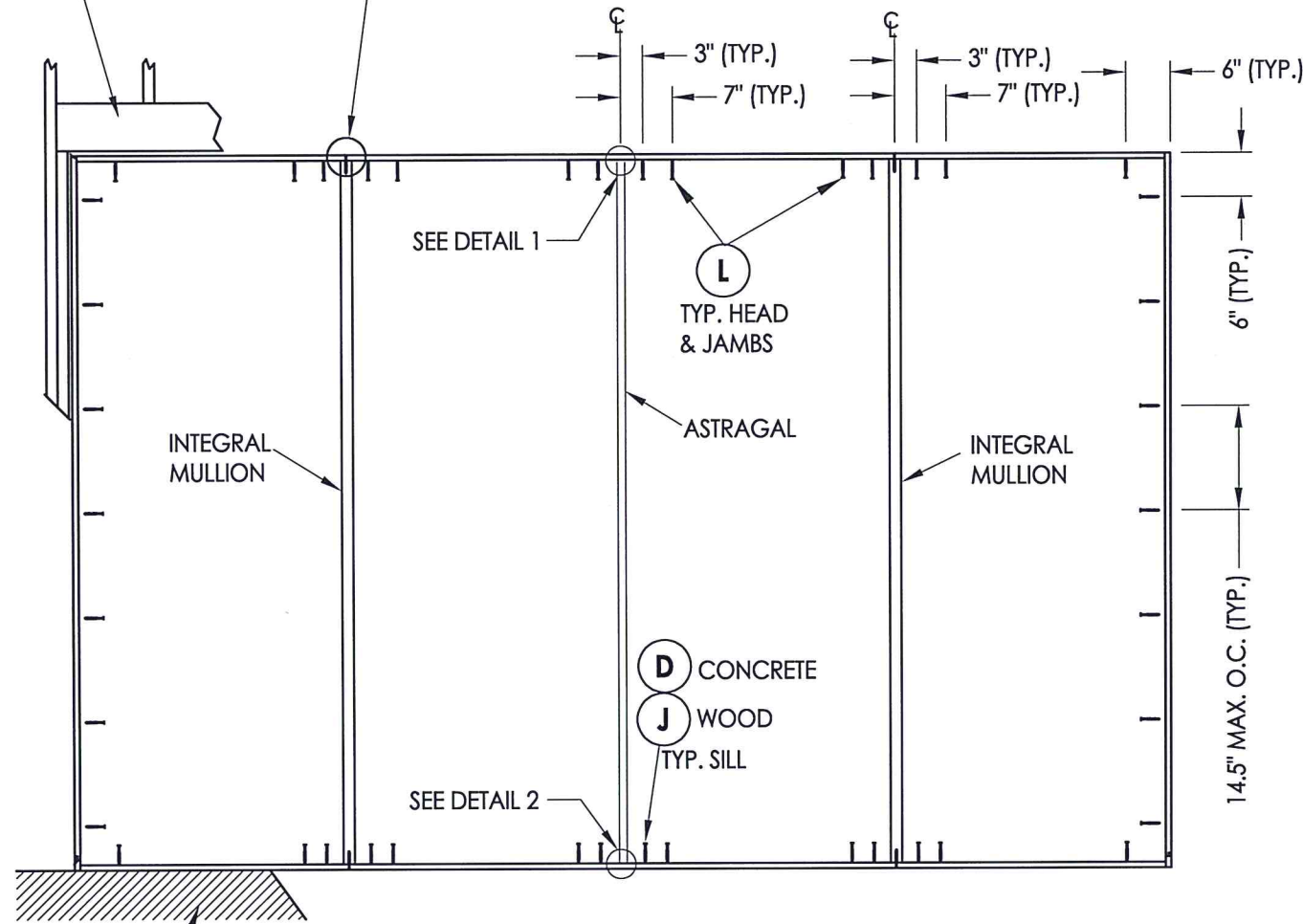
2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED (TYP.).

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

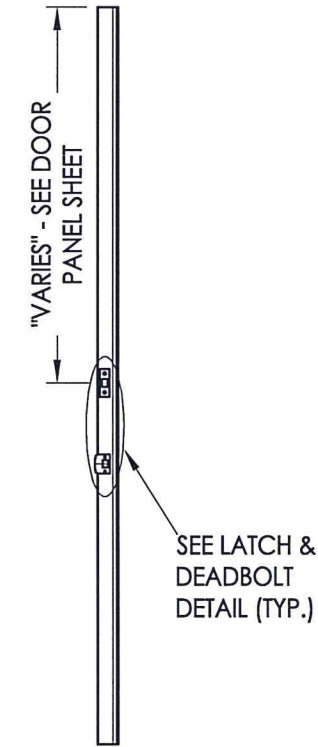


HINGE LOCATIONS

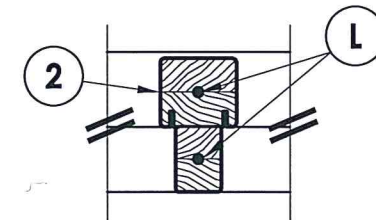
FLOOR SUBSTRATE MATERIAL (TYP.)
 CONCRETE (MIN. 3000 PSI)
 WOOD (G >= 0.42)



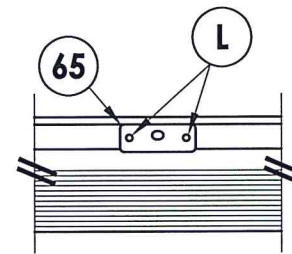
FRAME ANCHORING OXXO



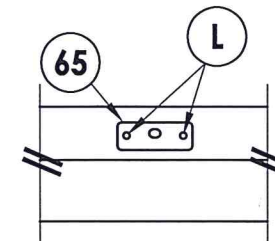
ASTRAGAL STRIKE JAMB



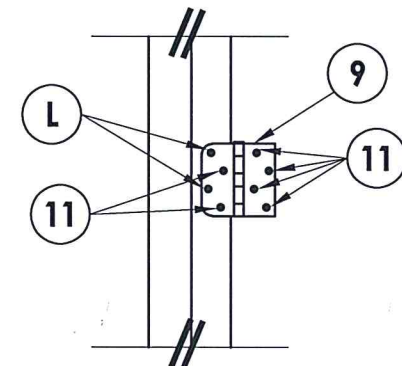
INTEGRAL MULLION ATTACHMENT DETAIL



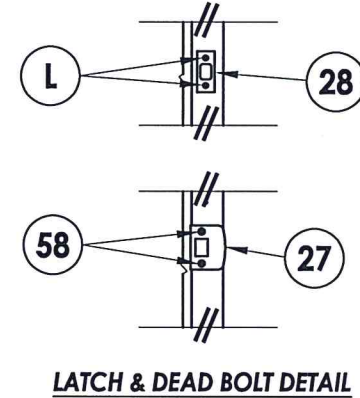
DETAIL 2
Astragal strike @ sill (Inswing)



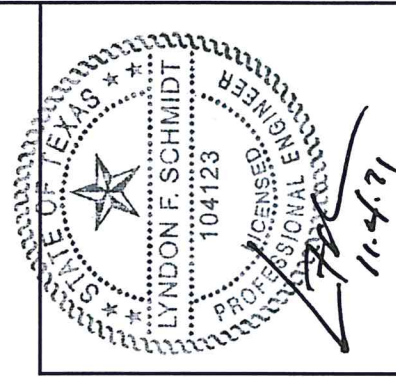
DETAIL 1
Astragal strike @ head



HINGE DETAIL
Inswing



LATCH & DEAD BOLT DETAIL



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

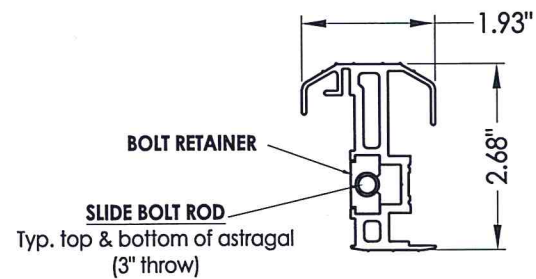
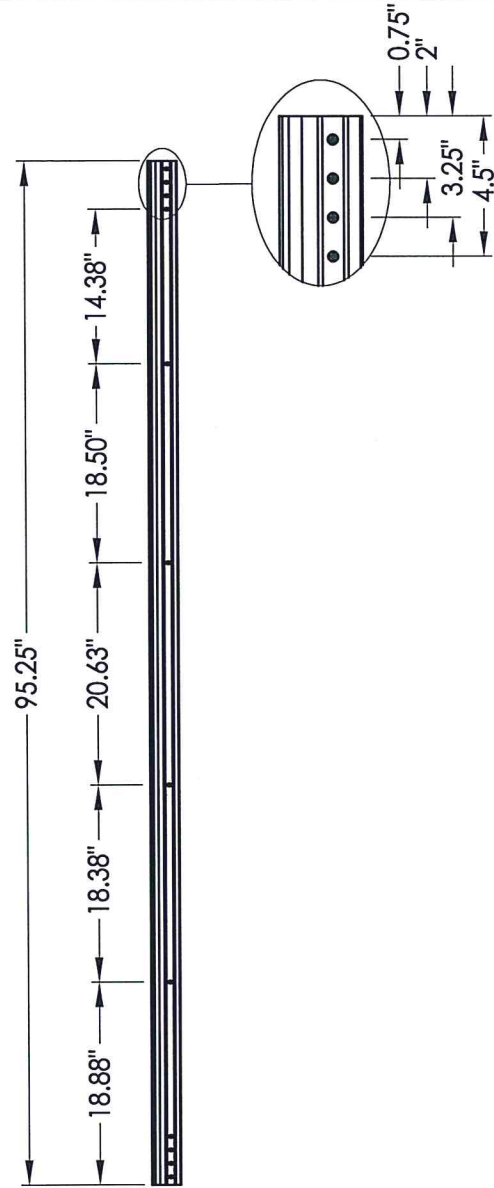
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 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR
 PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	10/26/21	UPDATE TO 2018 IBC/IRC
2	5/31/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION
		BY

DATE: 6/13/13
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4379
 SHEET 8 of 10

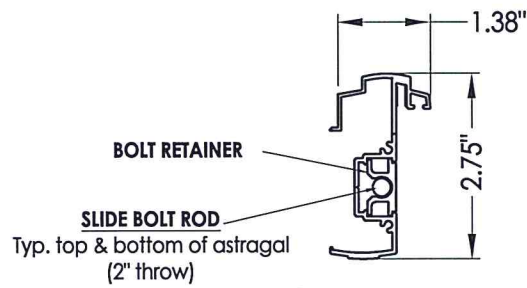
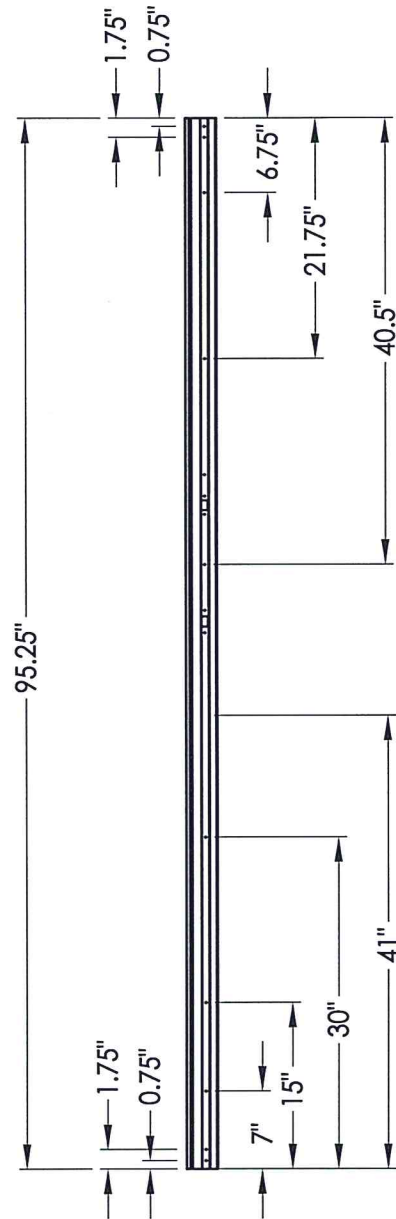
ASTRAGAL SCREW LOCATIONS



61 ALUMINUM ASTRAGAL
Therma-Tru

8'0 ALUMINUM ASTRAGAL ASSEMBLY
Therma-Tru

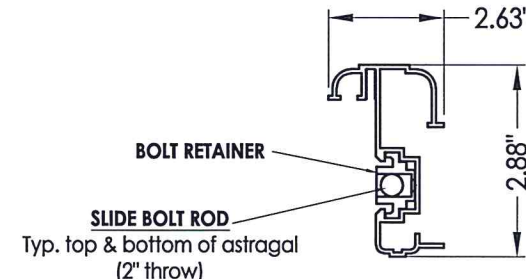
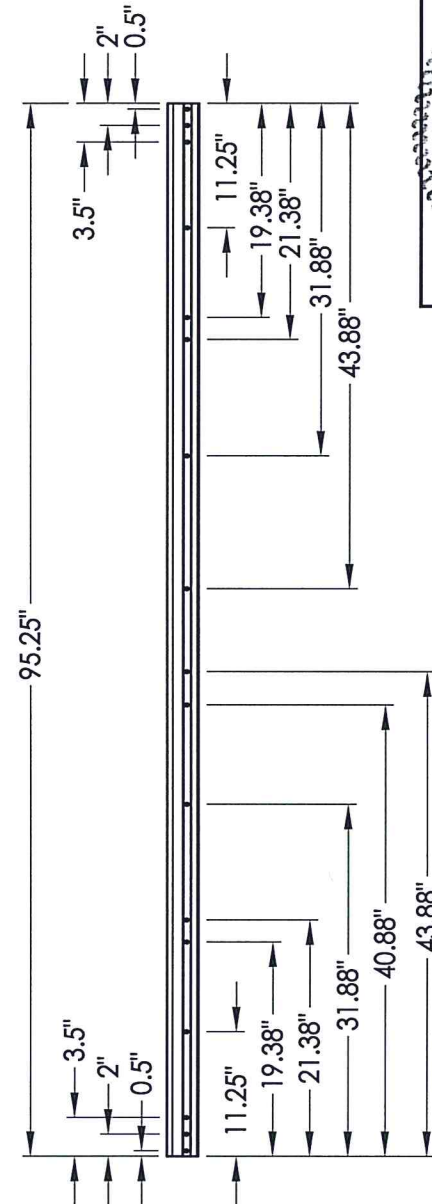
ASTRAGAL SCREW LOCATIONS



62 ASTRAGAL
Columbia

8'0 ALUMINUM ASTRAGAL ASSEMBLY
Columbia

ASTRAGAL SCREW LOCATIONS



63 ASTRAGAL
DLP

8'0 ALUMINUM ASTRAGAL ASSEMBLY
DLP



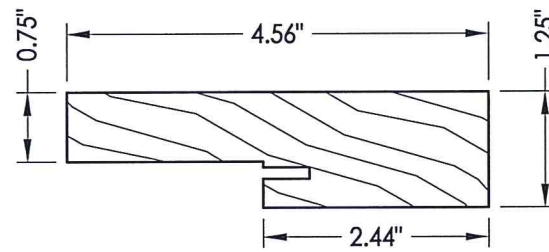
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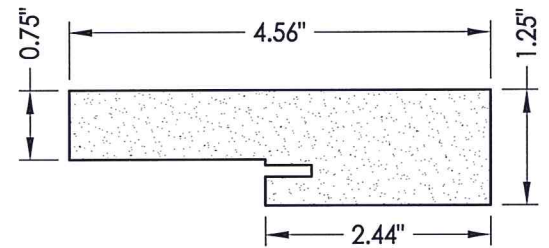
PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		ASTRAGAL DETAILS	
NO.	DATE	BY	REVISIONS
3	10/26/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/31/18	LFS	ADD FLAT FRAME LITE PROFILE
1	12/14/15	JK	ADD H.S. GLAZING OPTION

DATE: 6/13/13
SCALE: N.T.S.
DWG. BY: JK
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DRAWING NO.: TX-4379
SHEET 9 OF 10

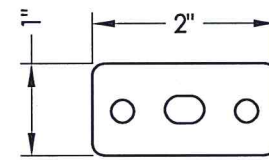
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMB.)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
1	HEAD & JAMB	WOOD
2	HEAD & 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



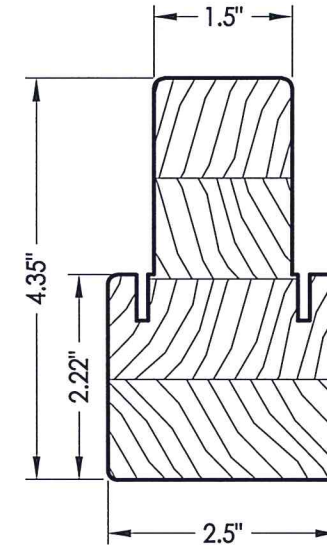
1 HEAD & JAMB
Finger joint pine



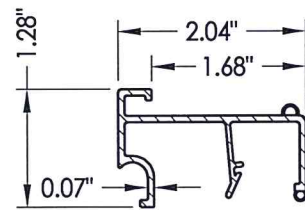
2 HEAD & JAMB
Composite



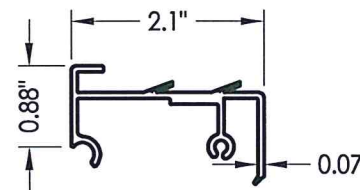
65 HEAD & SILL STRIKE PLATE



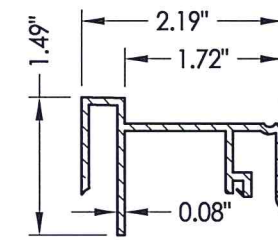
3 INTEGRAL MULLION



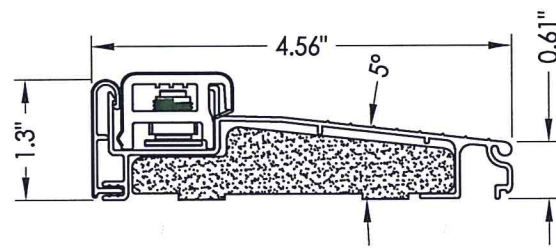
37 INSWING SIDELITE SEAT
ENDURA 60 SERIES



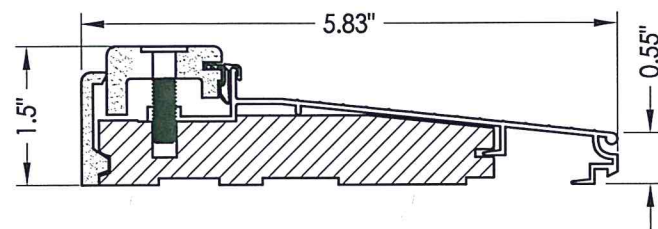
38 SIDELITE SPACER
Columbia



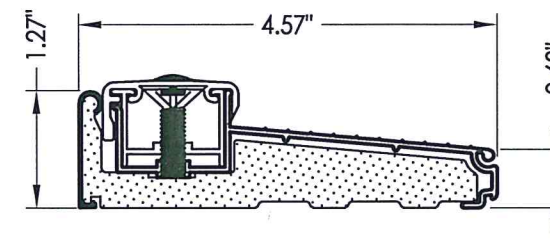
39 INSWING SIDELITE SEAT
Therma-Tru



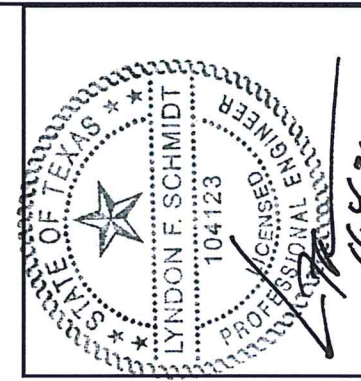
34 INSWING THRESHOLD
ENDURA ZAIL 4565
with Composite Substrate



35 INSWING THRESHOLD
Therma-Tru



36 INSWING THRESHOLD
Columbia 900 Series



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

NO.	DATE	REVISIONS
3	10/26/21	UPDATE TO 2018 IBC/IRC
2	5/31/18	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-4379
SHEET 10 OF 10