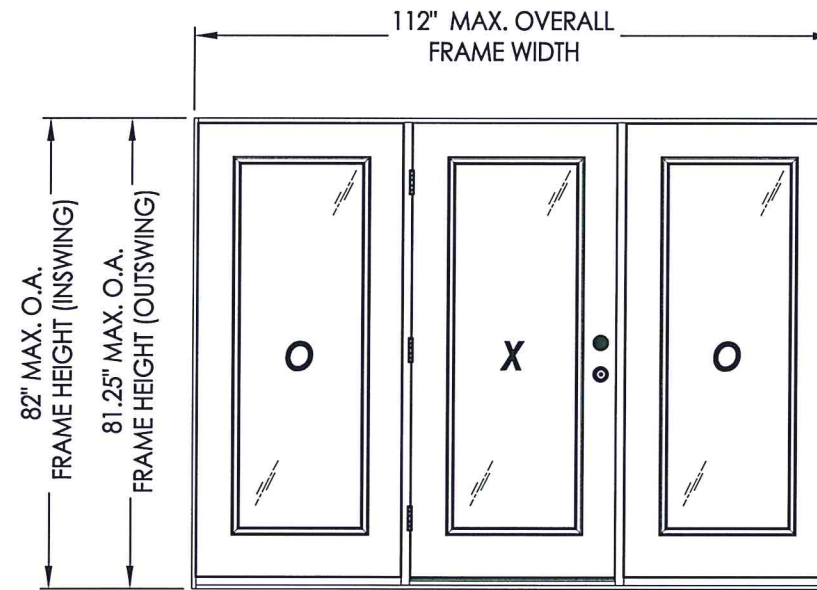
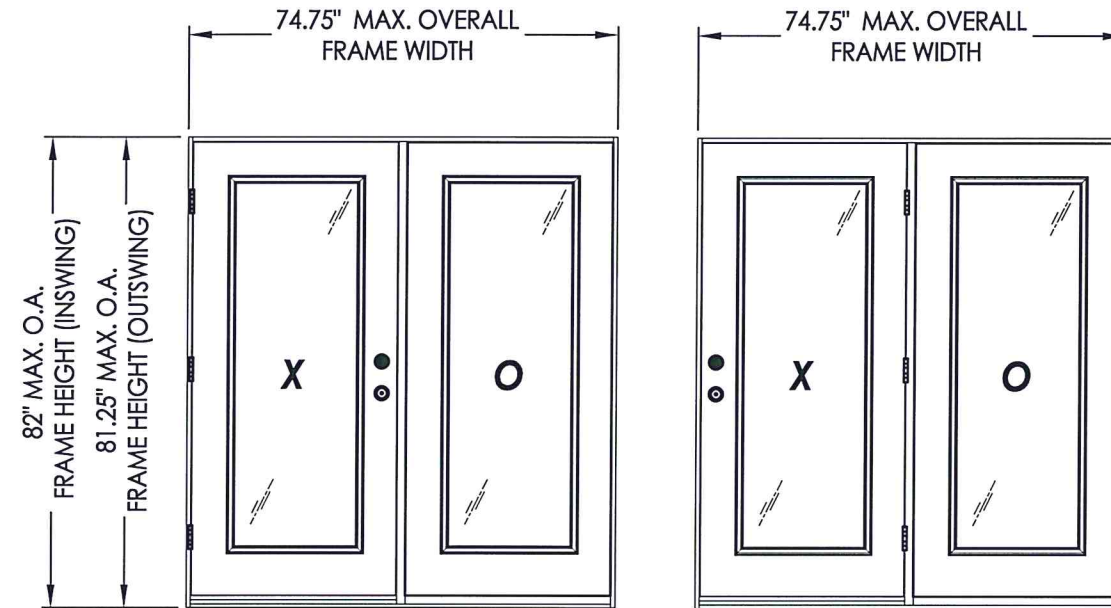


**FIBERGLASS GLAZED
 SINGLE DOOR
 w/ or w/out SIDELITE(S)
 INSWING/OUTSWING
 "IMPACT"**



CONTINUOUS HEAD & SILL

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+50.0	-55.0	+50.0	-50.0

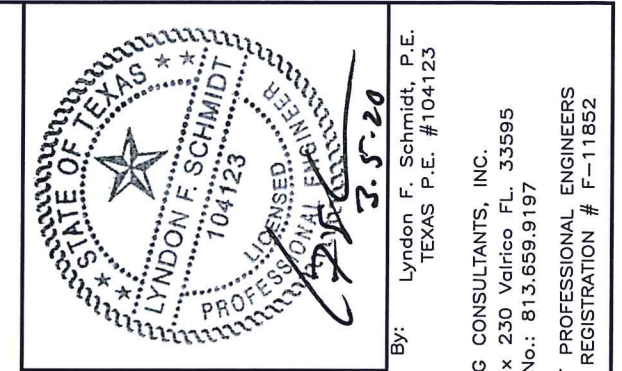
EVALUATED FOR USE IN THE STATE OF TEXAS

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.

TABLE OF CONTENTS

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



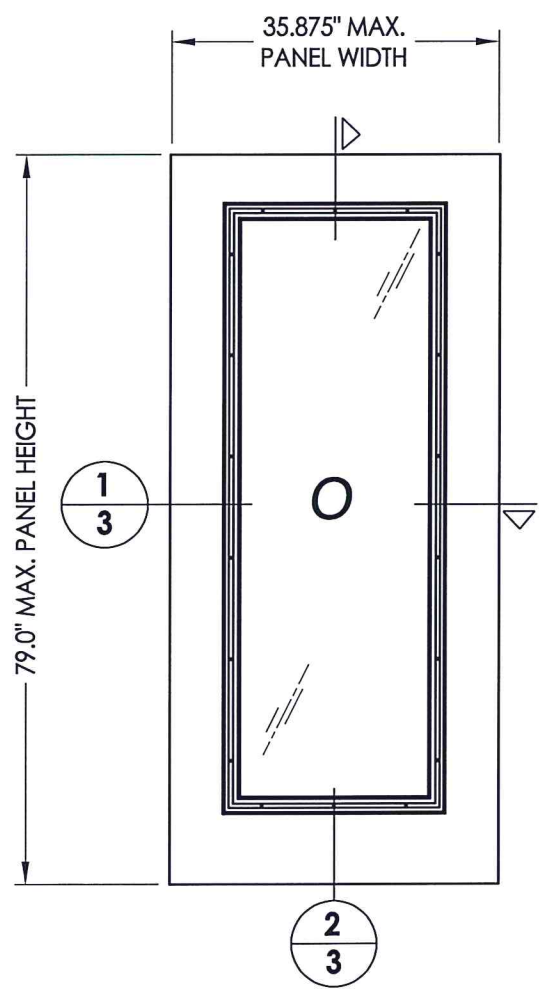
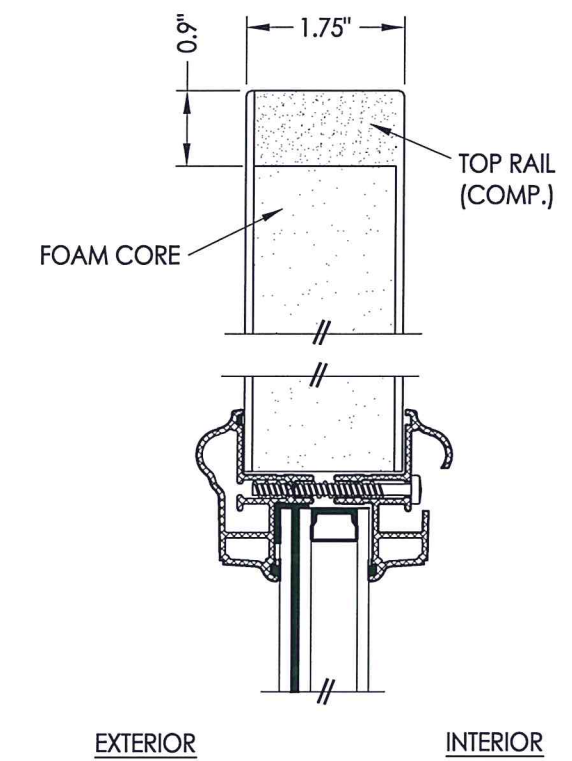
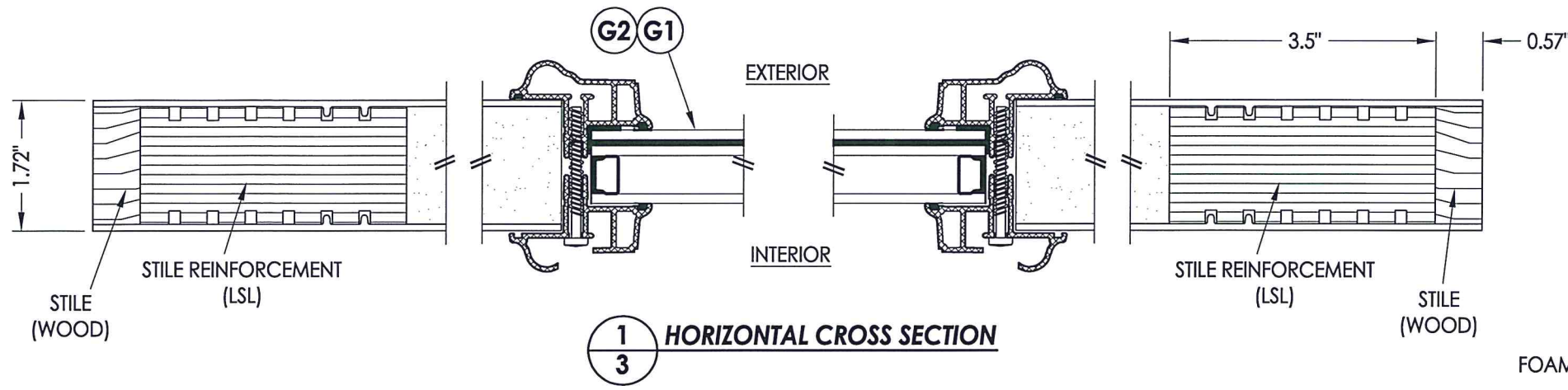
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123

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: MASTERGRAIN FIBERGLASS DOOR
 PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

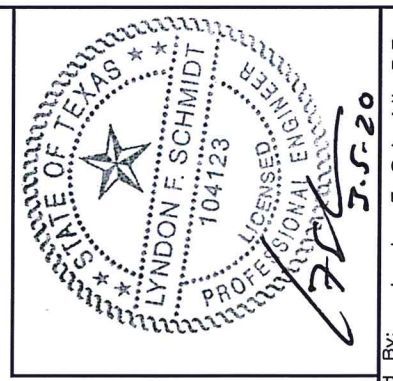
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1	3/05/20	UPDATE TO 2018 IBC/IRC CODE
		LFS
		BY

DATE: 9/04/18
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4889
 SHEET 1 OF 12



50 SIDELITE PANEL
Mastergrain

FIBERGLASS SIDELITE SKIN: 0.095" MIN. THK.
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.

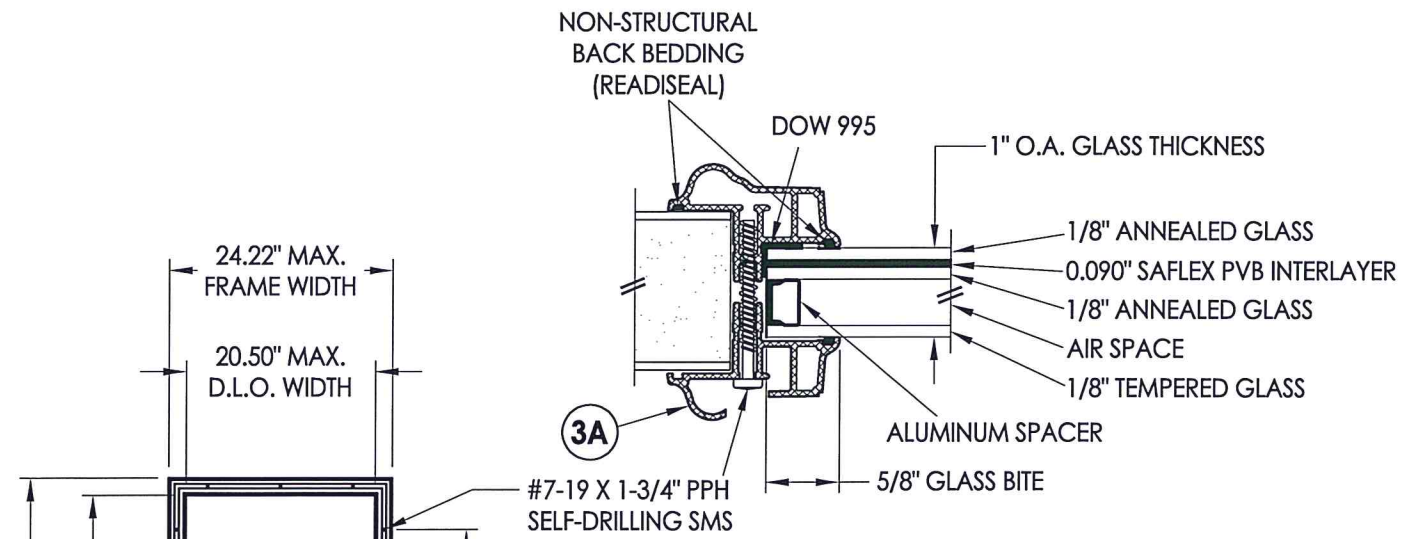


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

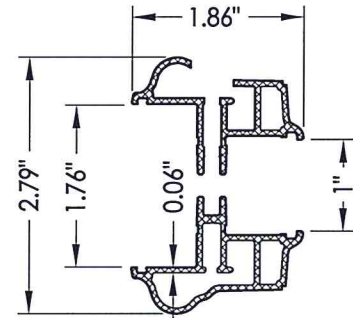
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Volrico FL 33595
Phone No.: 813.659.9197

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

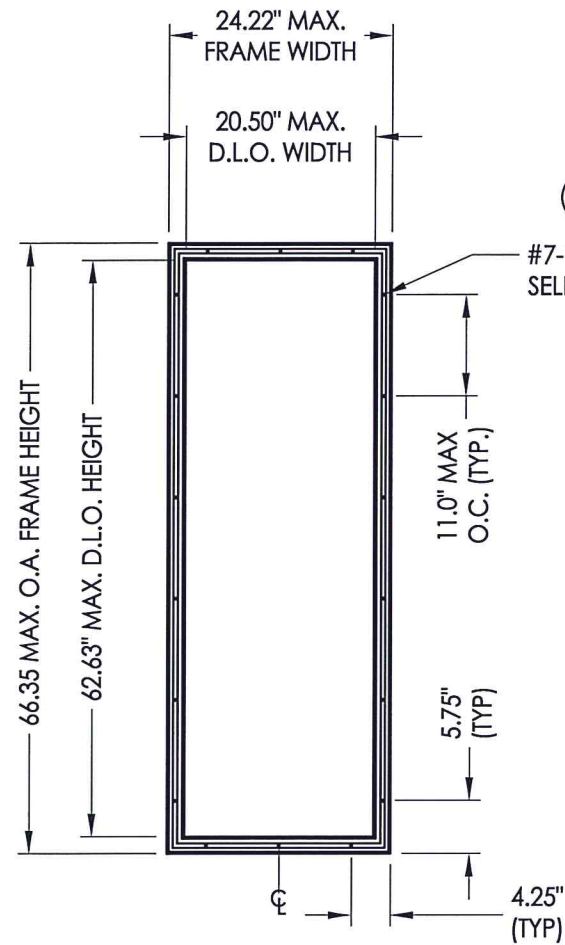
PRODUCT:		MASTERGRAIN FIBERGLASS DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
NO.	DATE	DESCRIPTION	BY
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			BY
DATE: 9/04/18			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4889			
SHEET 3 OF 12			



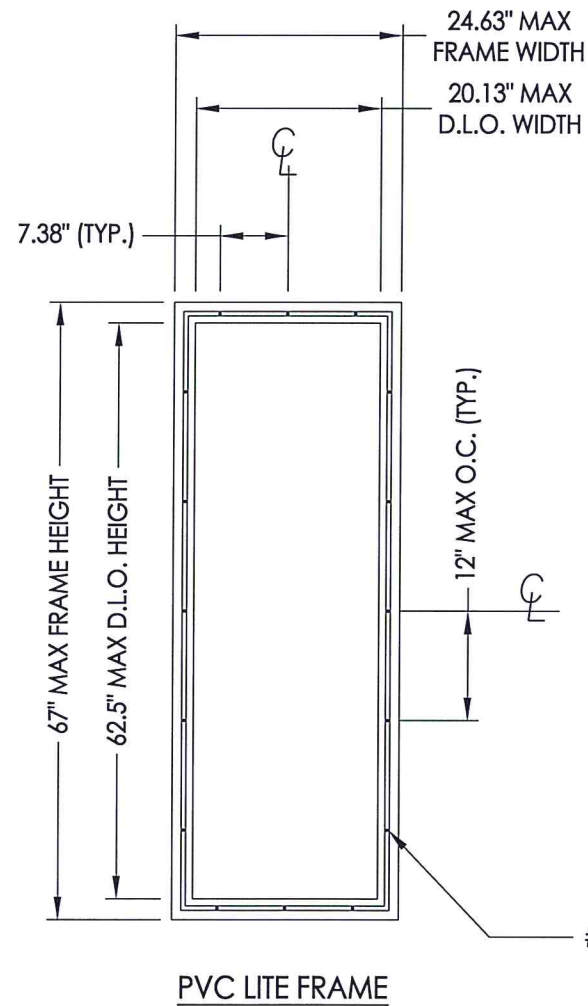
G1 GLAZING DETAIL



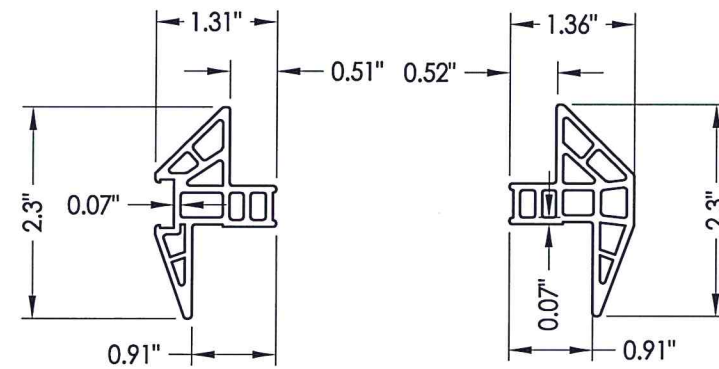
3A ODL LITE FRAME
Aluminum



ODL LITE FRAME DETAIL

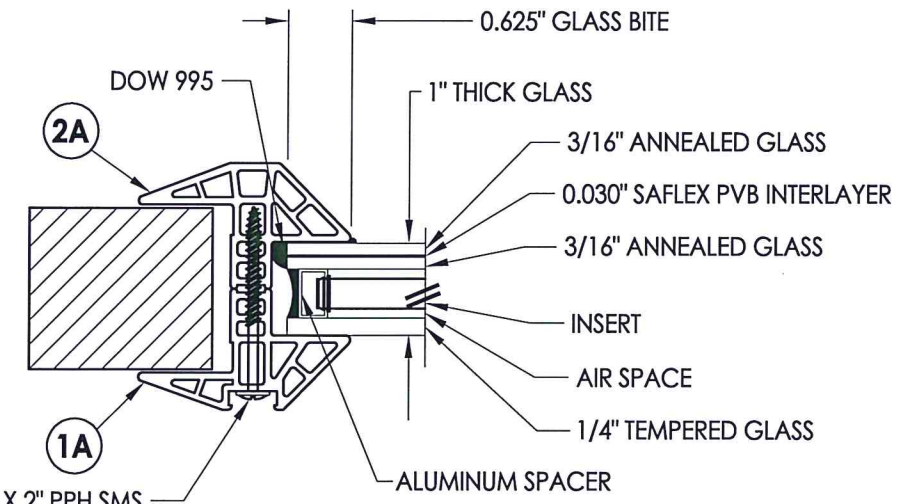


PVC LITE FRAME

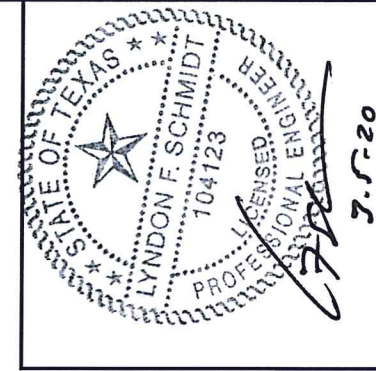


1A INTERIOR FRAME

2A EXTERIOR FRAME



G2 GLAZING DETAIL



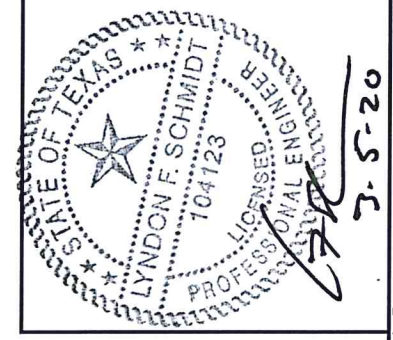
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

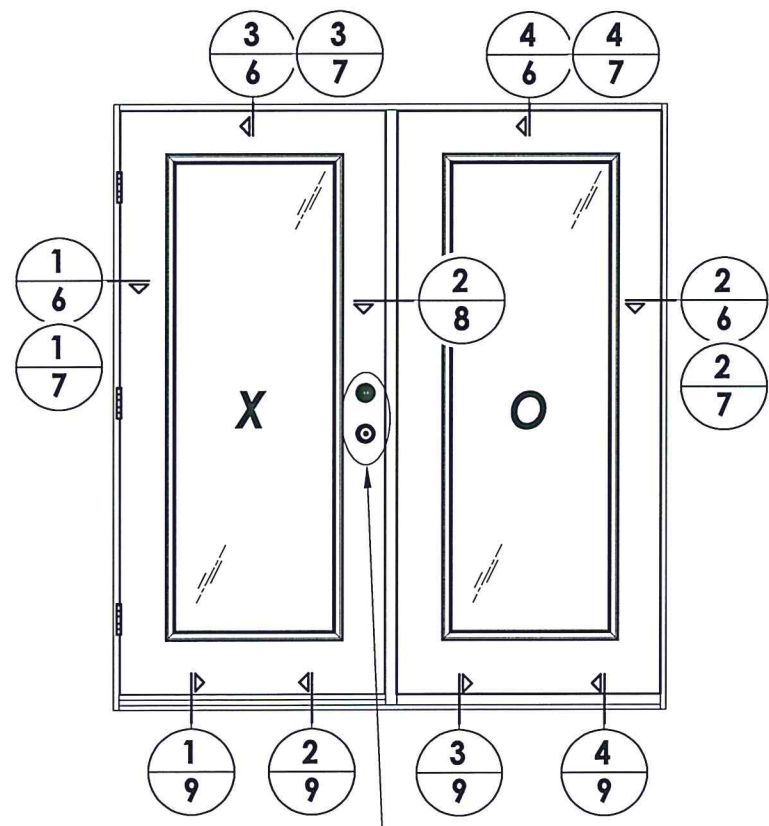
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PART OR ASSEMBLY:	GLAZING DETAILS

NO.	DATE	DESCRIPTION	LFS	BY
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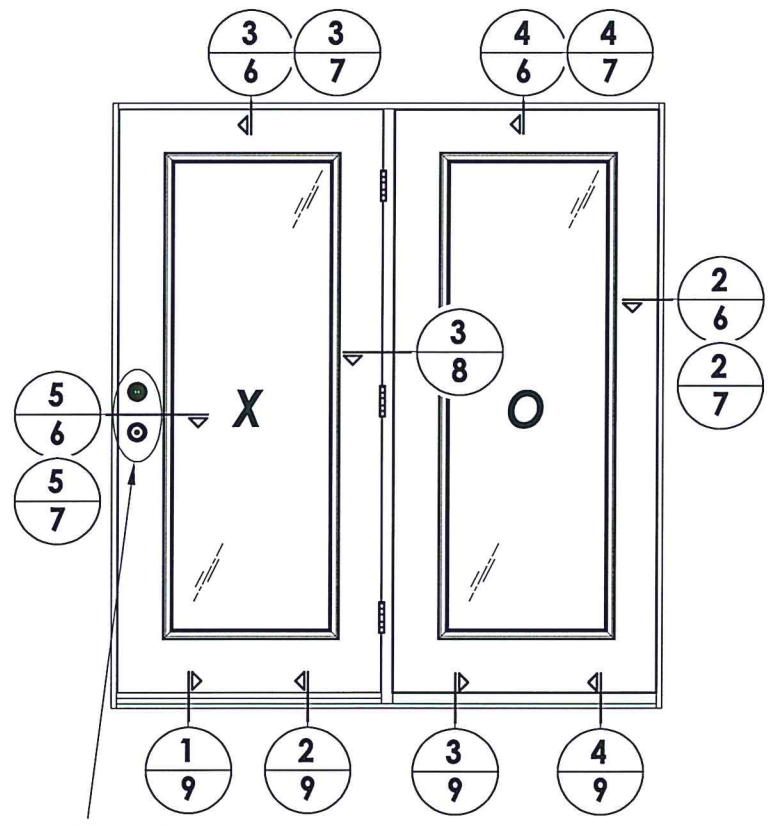
DATE:	9/04/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4889
SHEET	4 OF 12



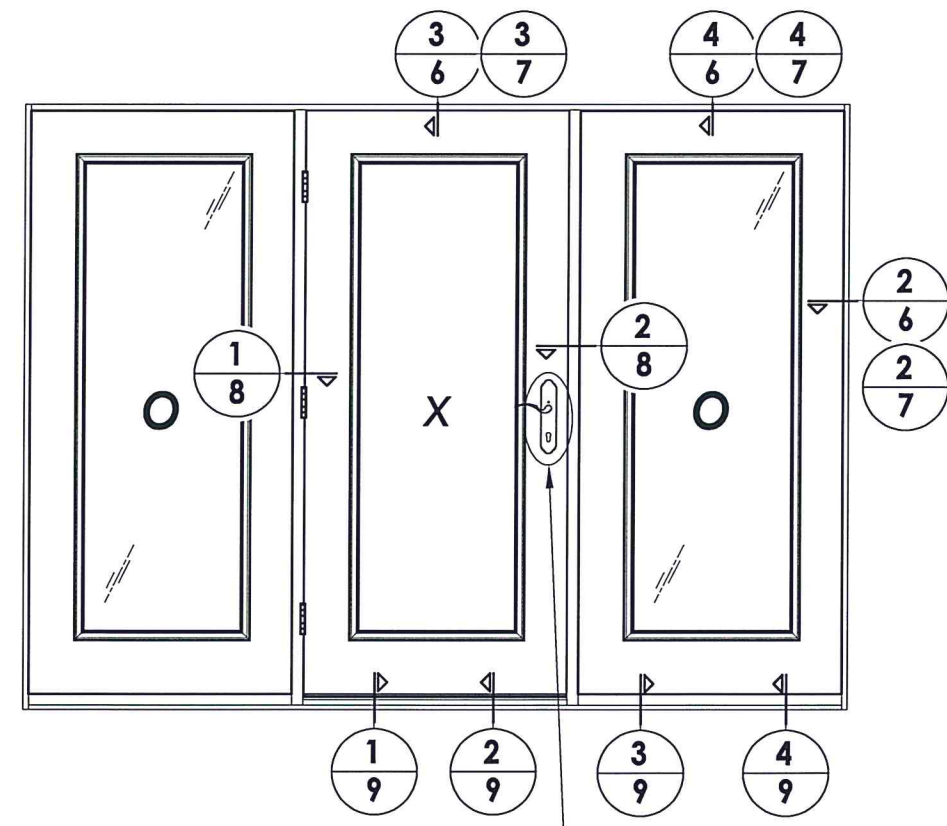
HARDWARE TABLE	
MANUFACTURER	MODEL
PAMEX	KNOB: FLU600 DEADBOLT: FD261
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: F51 DEADBOLT: B60N
HOPPE	MULTIPOINT: HLS™ ONE (3 pt. Manual Tongue)



SEE HARDWARE CHART



SEE HARDWARE CHART



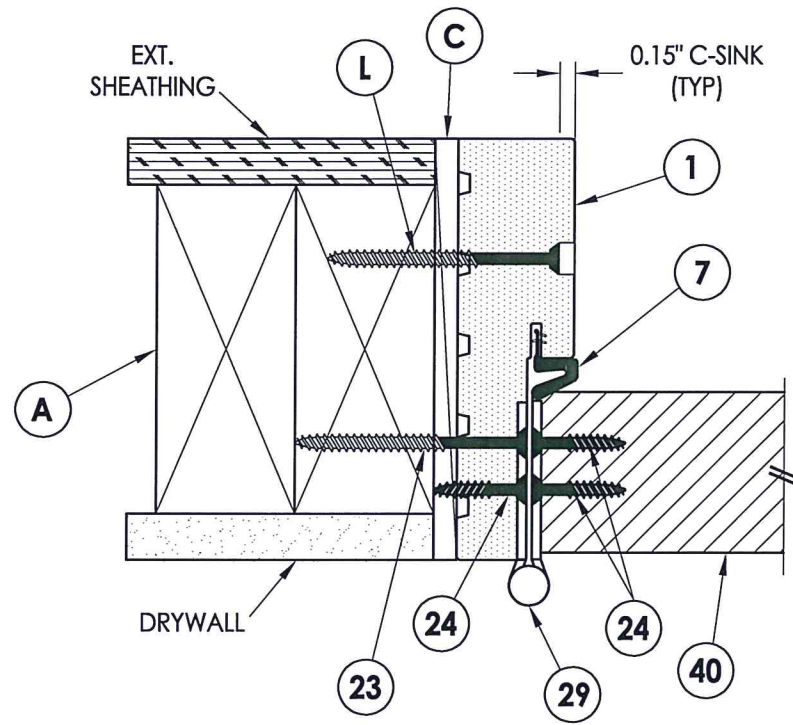
SEE HARDWARE CHART

PRODUCT: MASTERGRAIN FIBERGLASS DOOR		
PART OR ASSEMBLY: ELEVATIONS		
NO.	DATE	DESCRIPTION
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE
		LFS BY
REVISIONS		
DATE: 9/04/18		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: TX-4889		
SHEET 5 of 12		

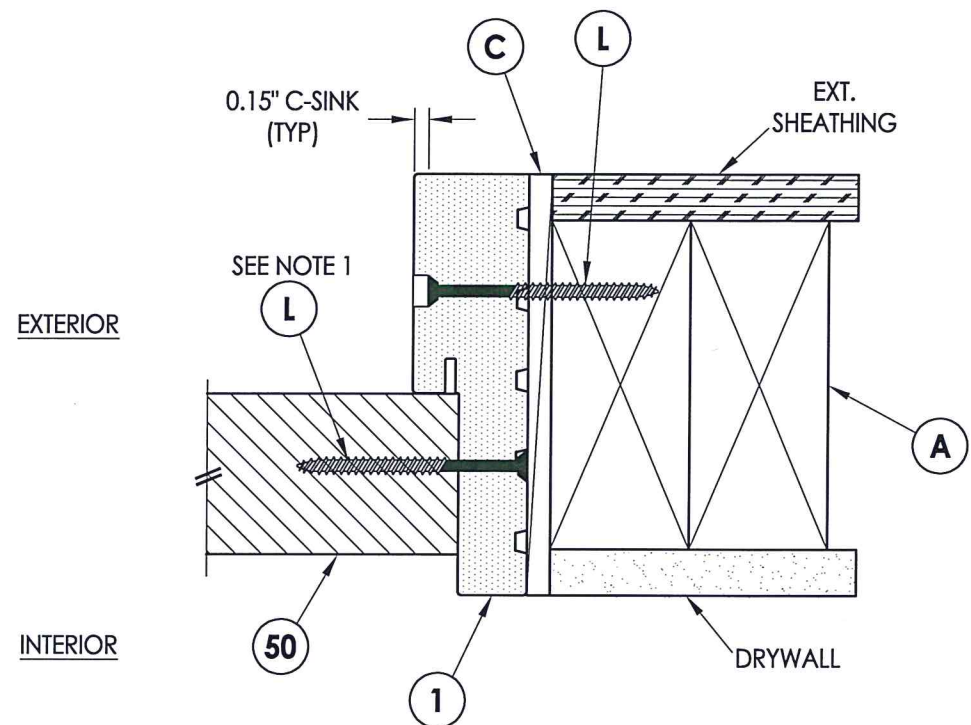
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL, 33595
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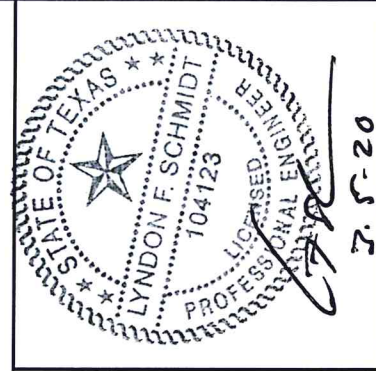


1 HORIZONTAL CROSS SECTION
 6 Shown w/ 2X Buck
 Inswing shown (Outswing similar)

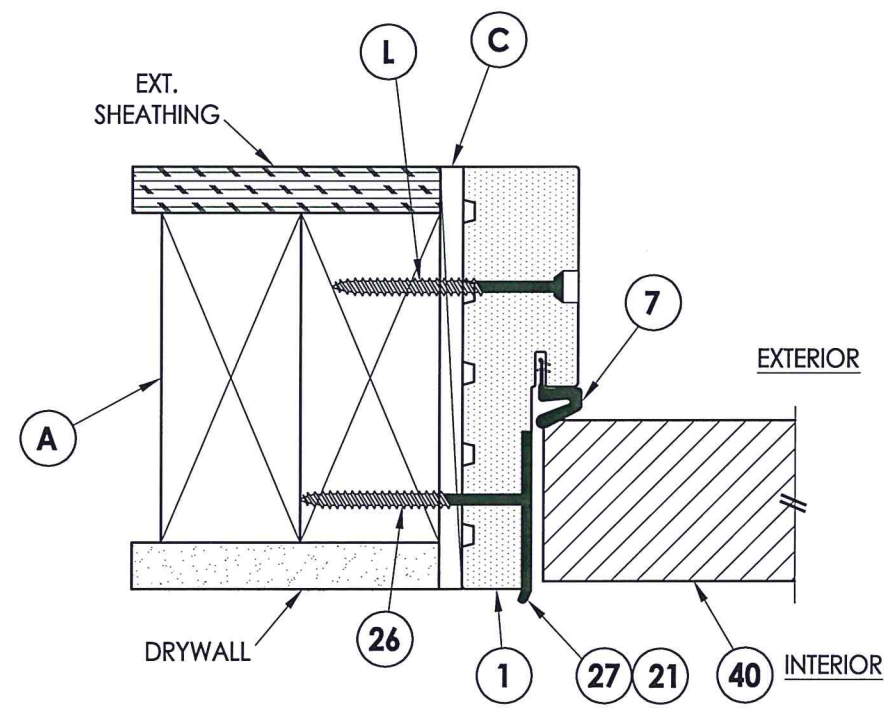


2 HORIZONTAL CROSS SECTION
 6 Shown w/ 2X Buck
 Inswing shown (Outswing similar)

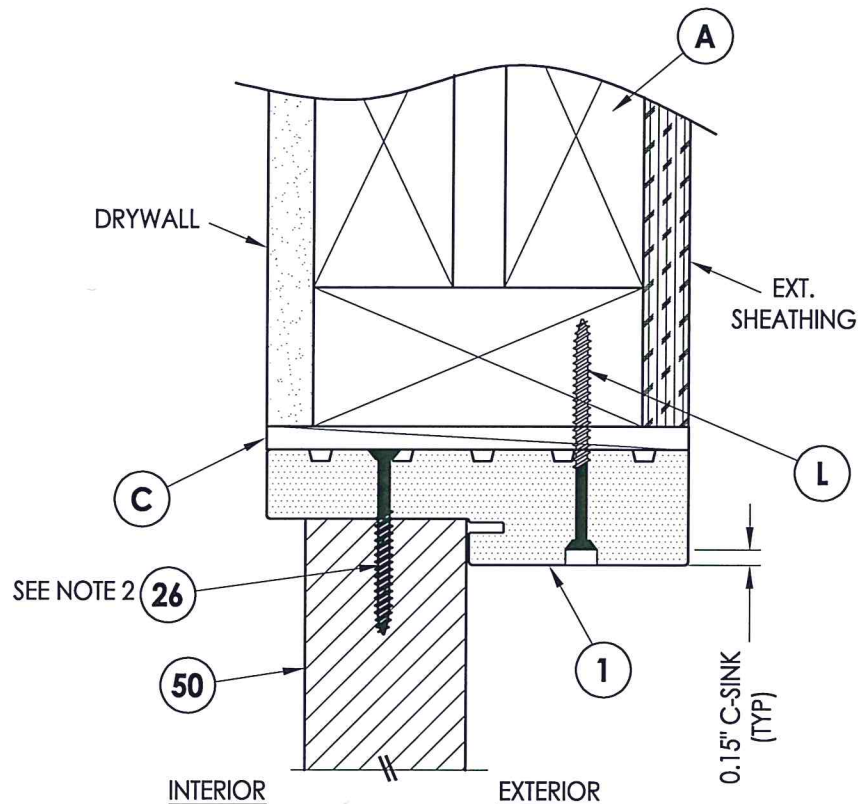
NOTE:
 1. Item #L located 4" from each end then 5 more equally spaced (7 total).
 2. Item #26 located 12" from each end (2 total).



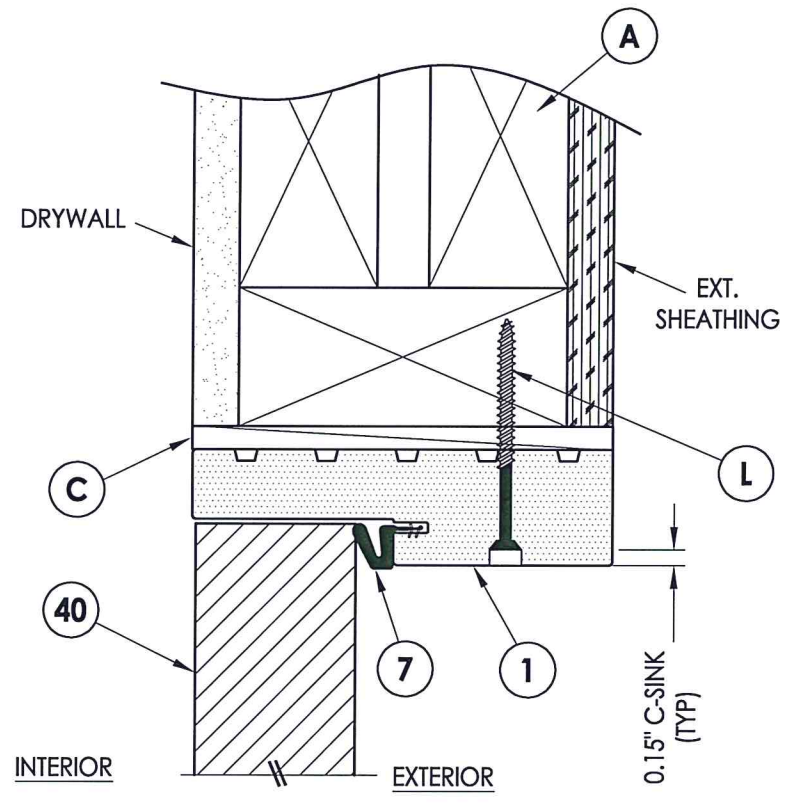
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL 33595
 Phone No.: 813.659.9197
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 CERTIFICATE OF REGISTRATION # F-11852



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

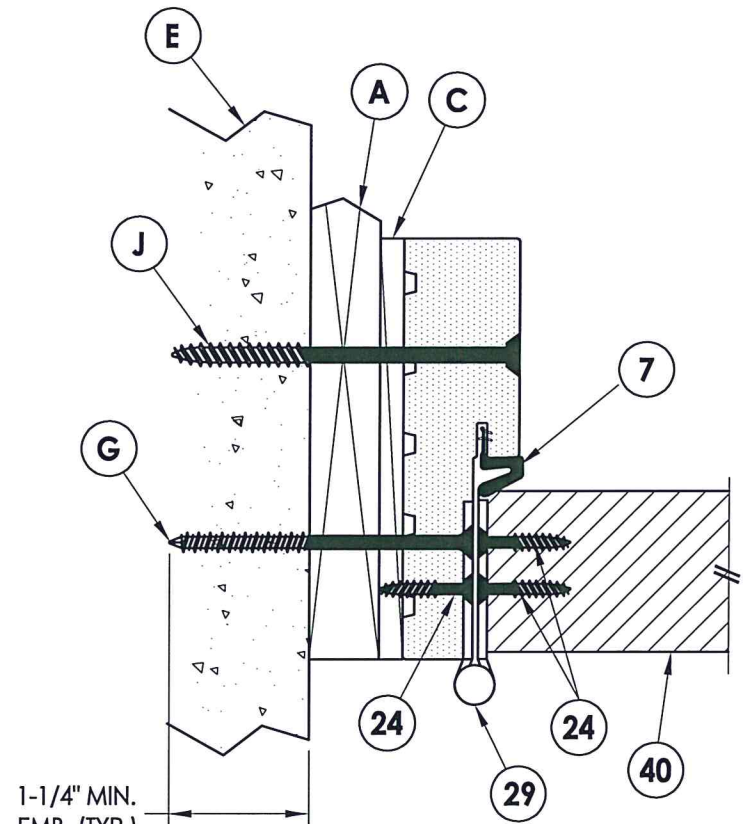


4 VERTICAL CROSS SECTION
 6 Shown w/ 2X Buck
 Inswing shown (Outswing similar)



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

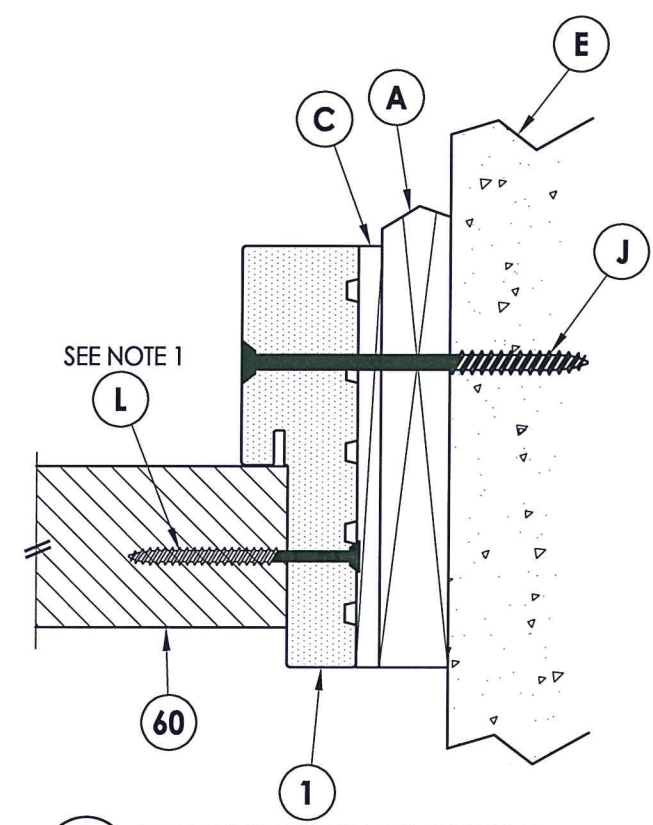
PRODUCT:		MASTERGRAIN FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
NO.	DATE	DESCRIPTION	BY
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			
DATE:		9/04/18	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		TX-4889	
SHEET		6 OF 12	



1
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Inswing shown (Outswing similar)

EXTERIOR

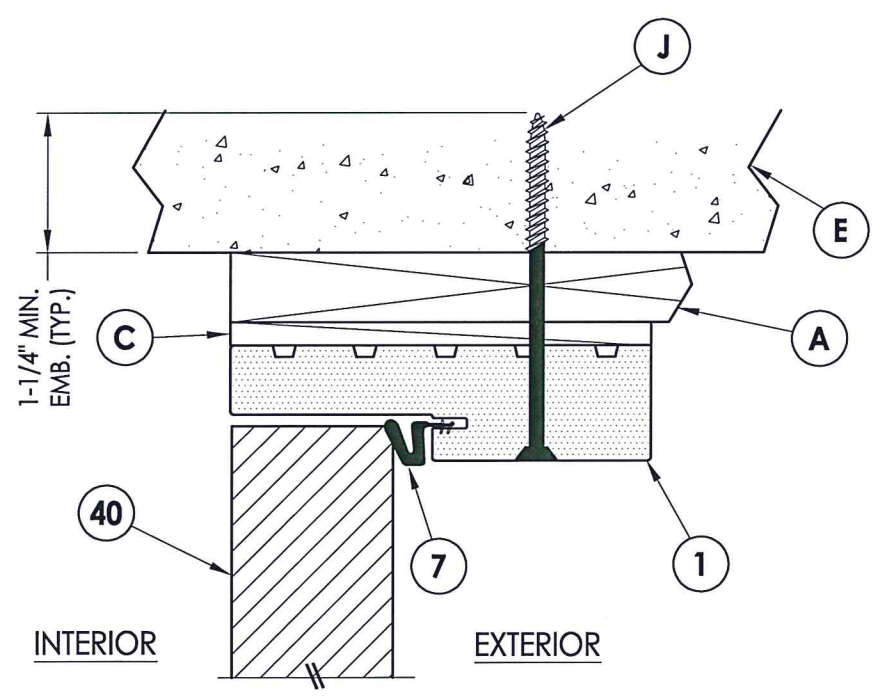
INTERIOR



2
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Inswing shown (Outswing similar)

NOTE:

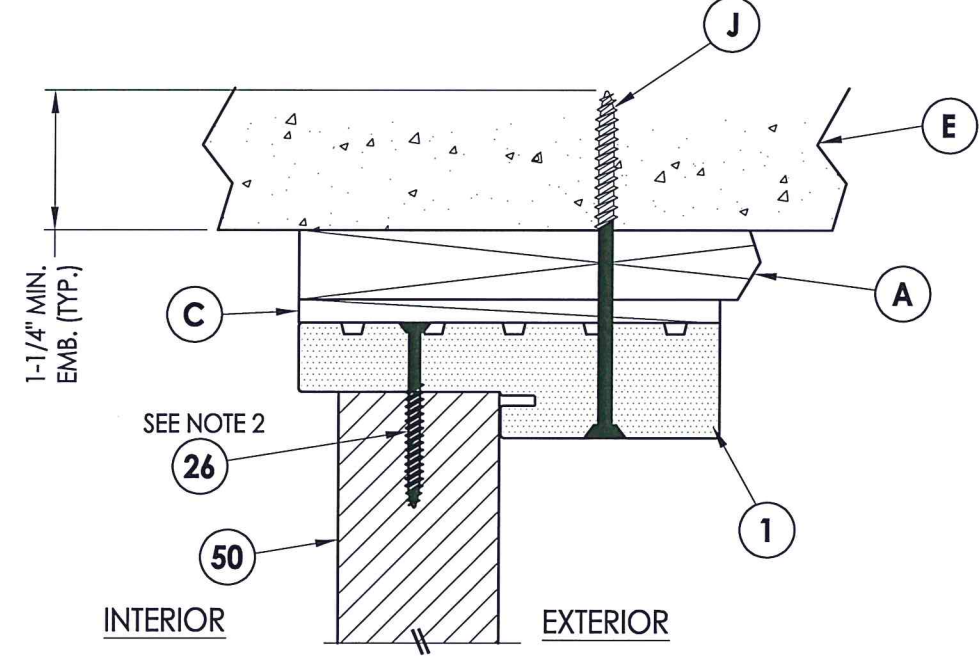
- Item #L located 4" from each end then 5 more equally spaced (7 total).
- Item #26 located 12" from each end (2 total).



3
7 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Inswing shown (Outswing similar)

INTERIOR

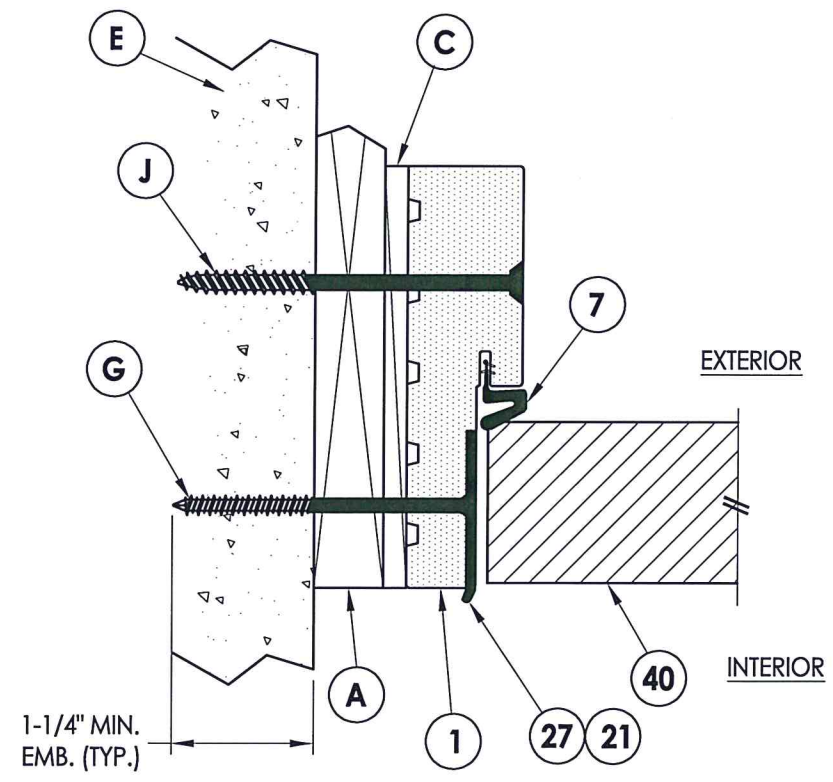
EXTERIOR



4
7 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Inswing shown (Outswing similar)

INTERIOR

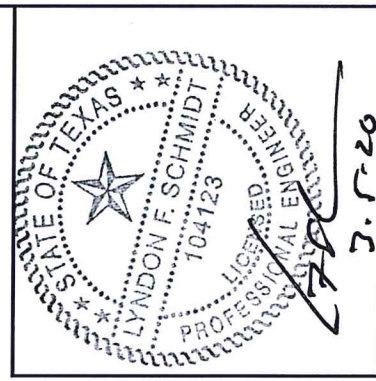
EXTERIOR



5
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Inswing shown (Outswing similar)

EXTERIOR

INTERIOR



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

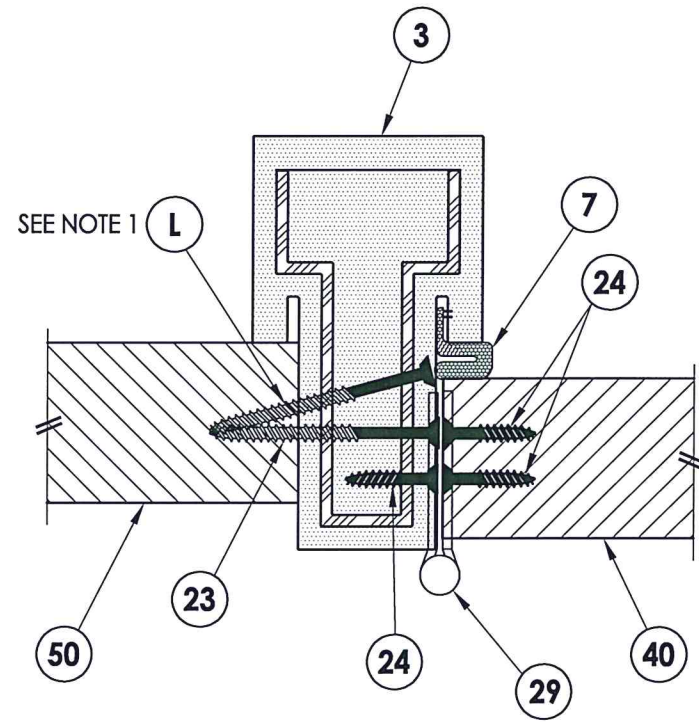
PRODUCT: MASTERGRAIN FIBERGLASS DOOR
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)

NO.	DATE	DESCRIPTION	LFS	BY
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE		

REVISIONS

DATE: 9/04/18
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4889
SHEET 7 OF 12

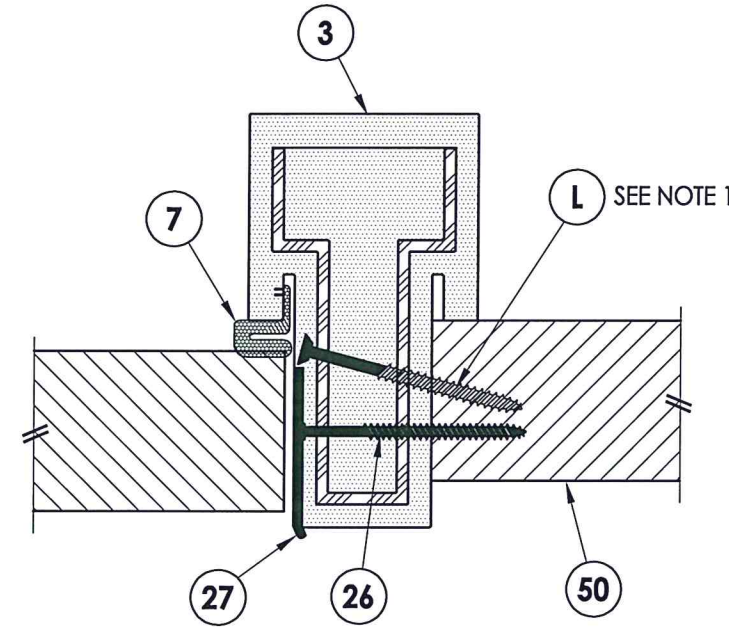
NOTE:
 1. Item #L located 4" from each end then 5 more equally spaced (7 total).



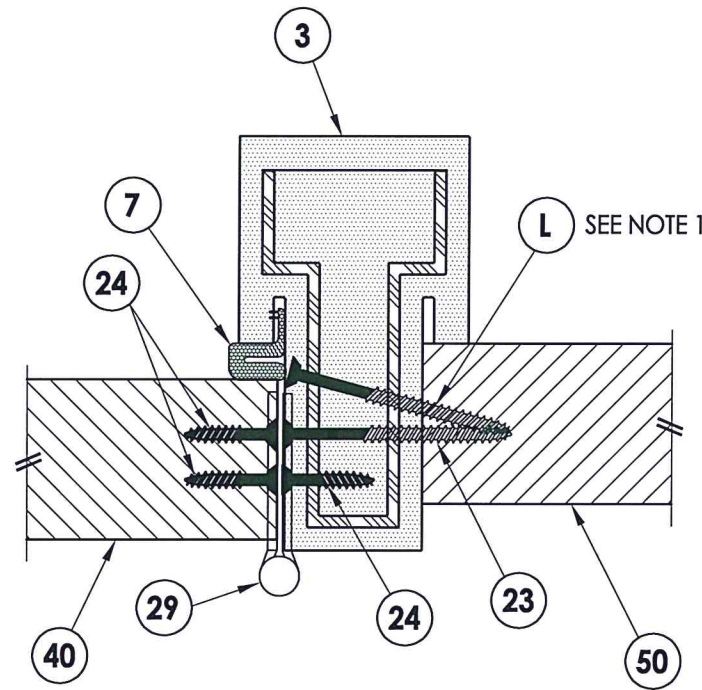
1 **HORIZONTAL CROSS SECTION**
8 Inswing shown (Outswing similar)

EXTERIOR

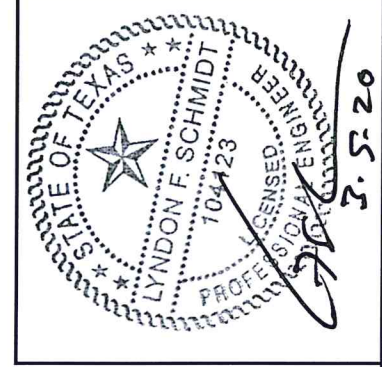
INTERIOR



2 **HORIZONTAL CROSS SECTION**
8 Inswing shown (Outswing similar)



3 **HORIZONTAL CROSS SECTION**
8 Inswing shown (Outswing similar)



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 TEXAS P.E. #104123

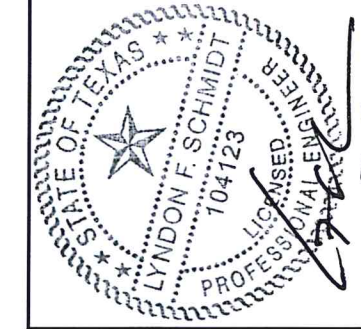
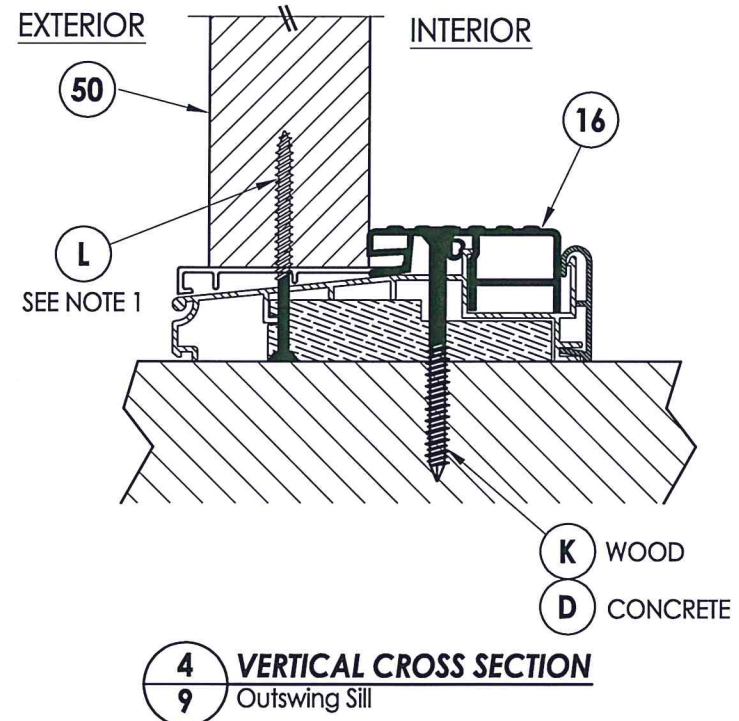
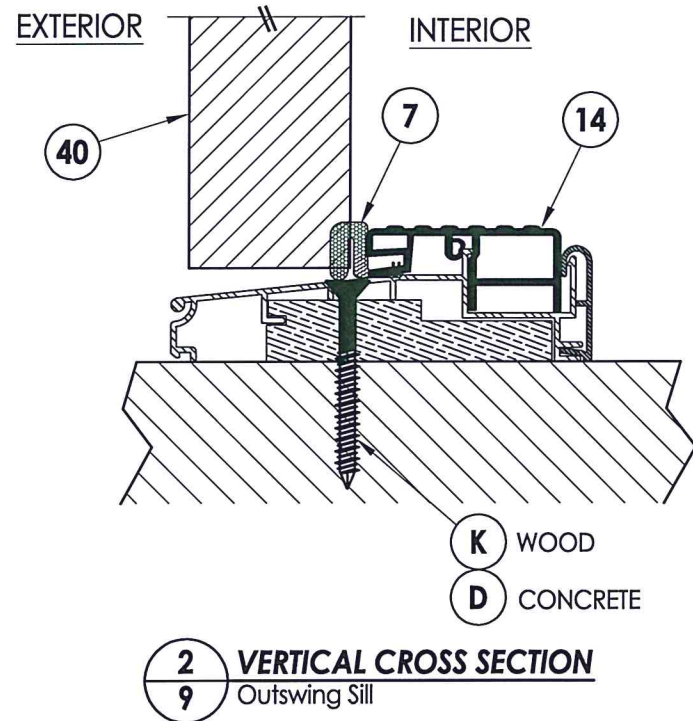
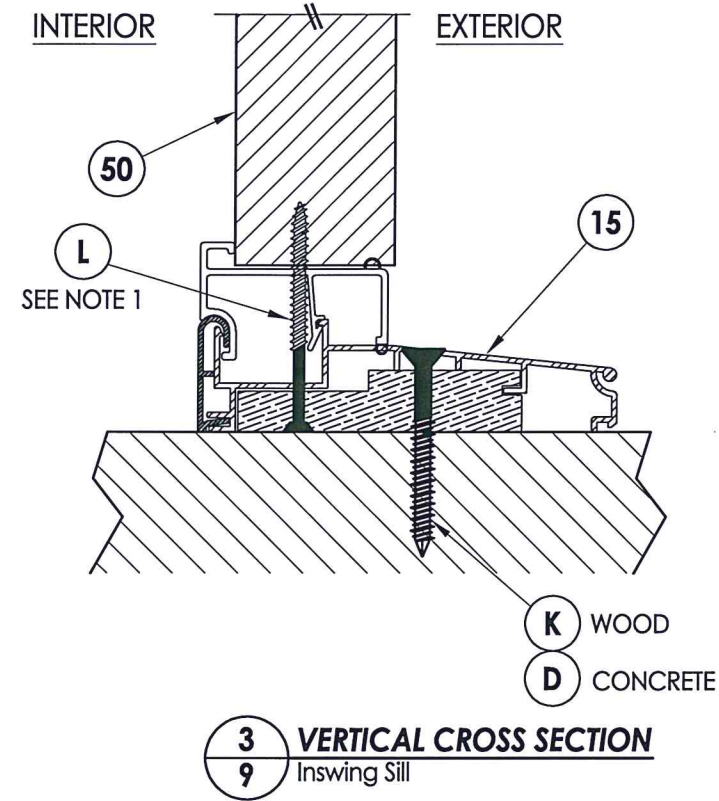
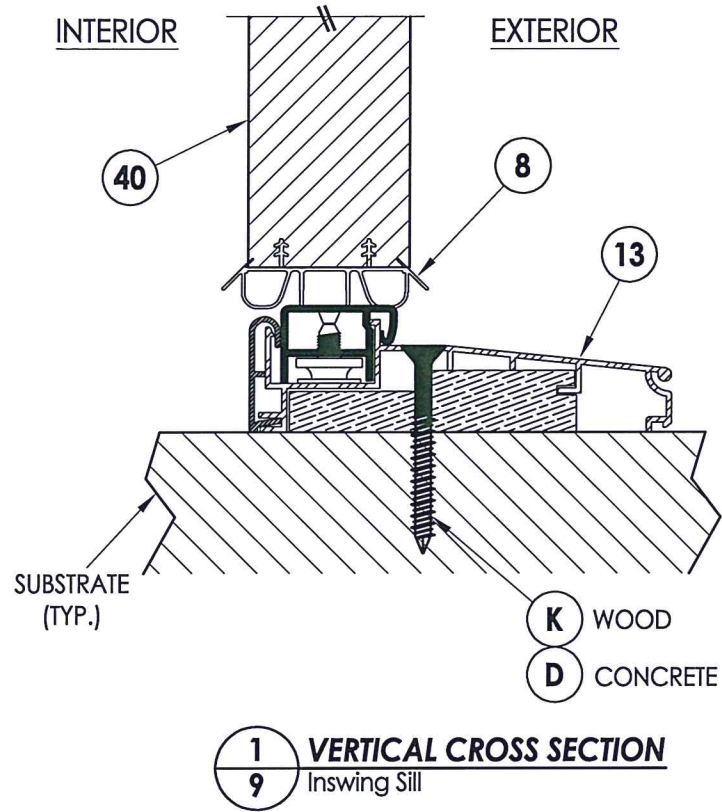
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL 33595
 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: MASTERGRAIN FIBERGLASS DOOR
 PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	BY
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 9/04/18
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4889
 SHEET 8 OF 12

NOTE:
1. Item #L located 12" from each end (2 total).



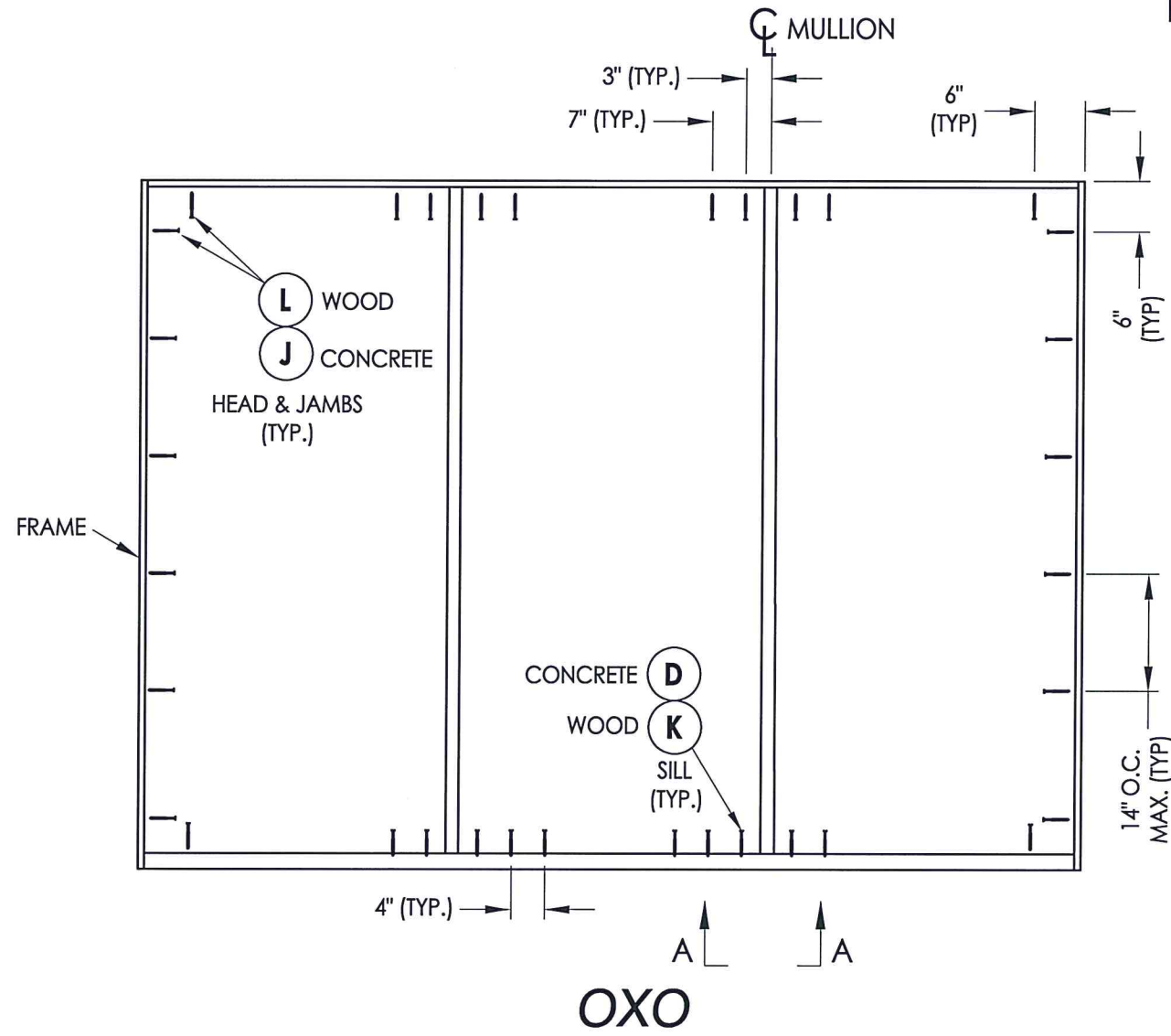
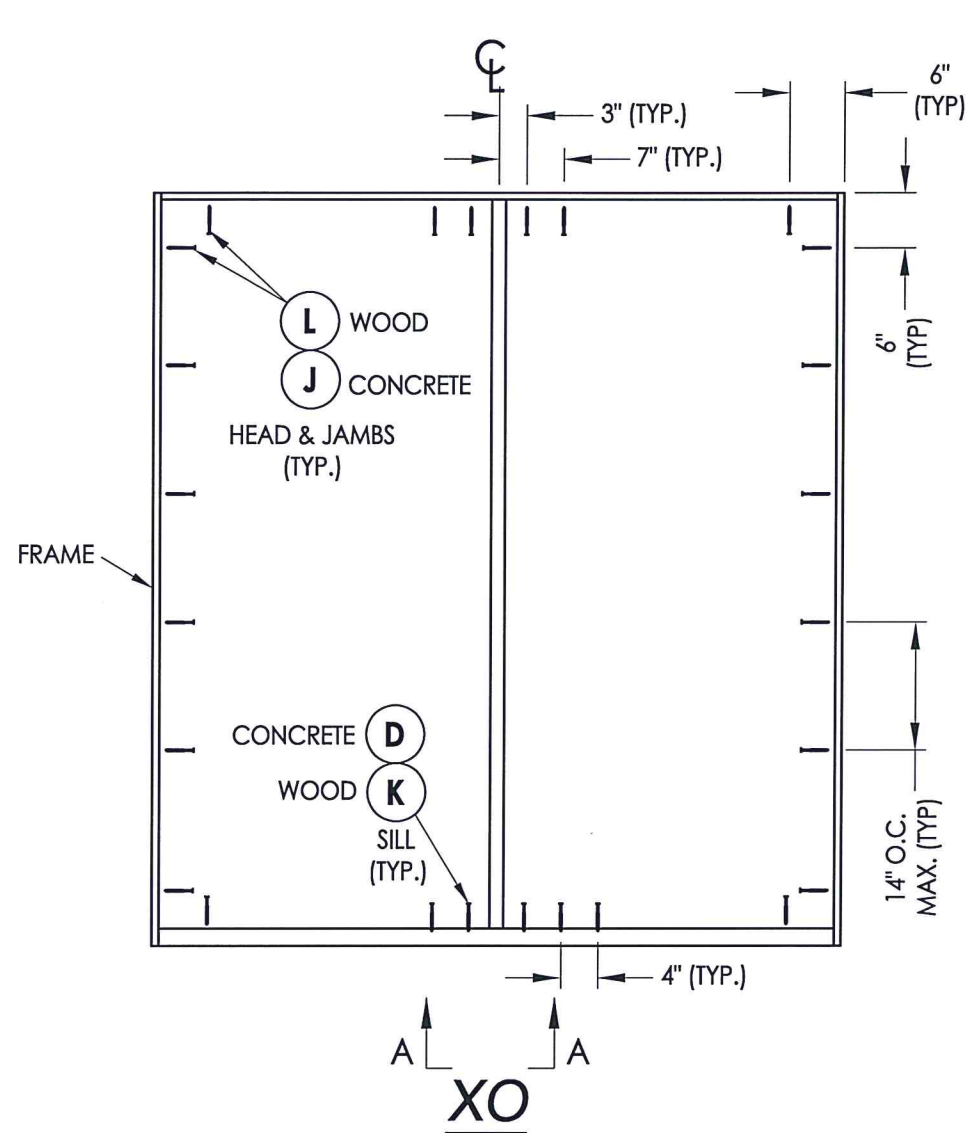
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

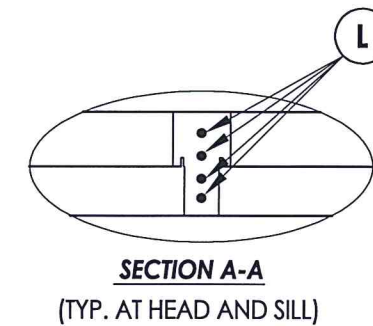
PRODUCT: MASTERGRAIN FIBERGLASS DOOR
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE
		LFS
		BY

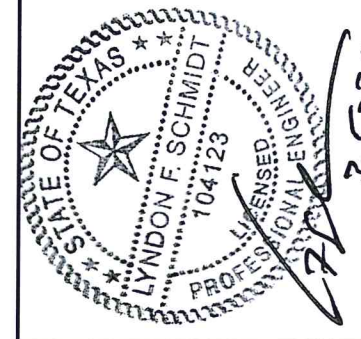
DATE: 9/04/18
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4889
SHEET 9 OF 12



FRAME ANCHORING



NOTE:
 1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD WOOD SCREWS @ HEAD & SILL.

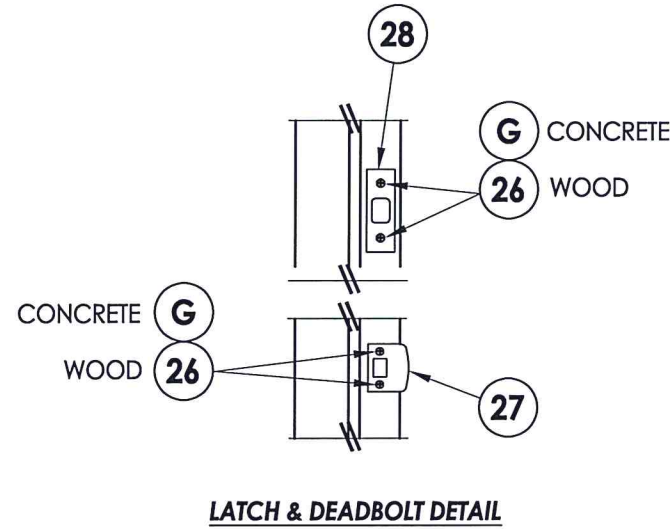


Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123

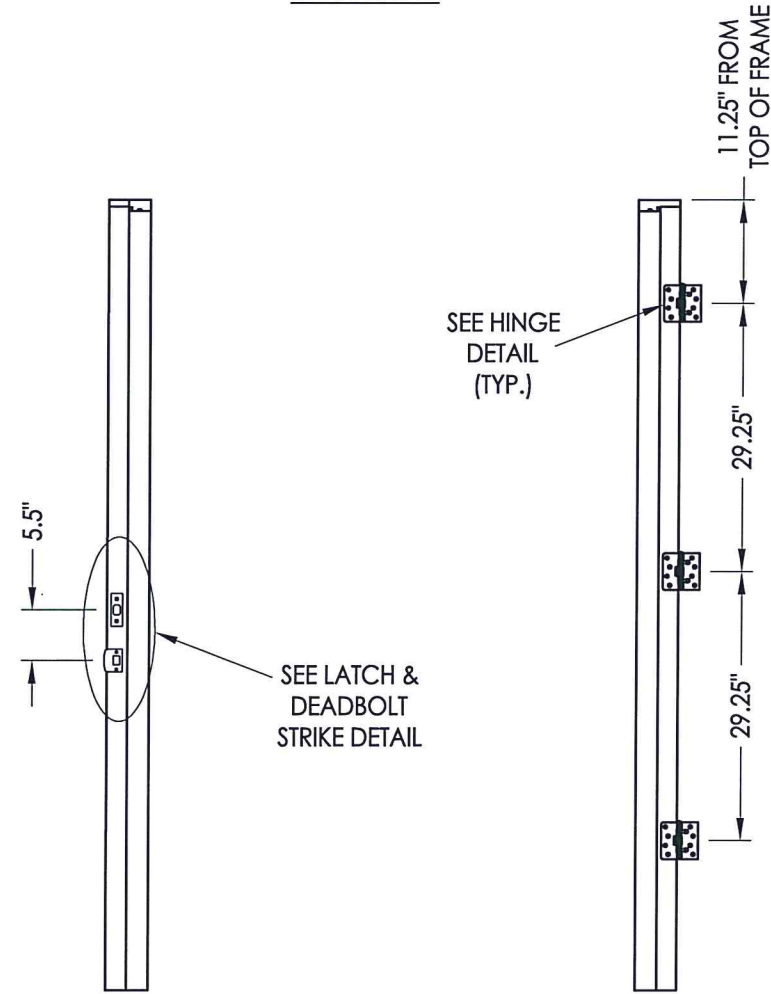
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL 33595
 Phone No.: 813.659.9197

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

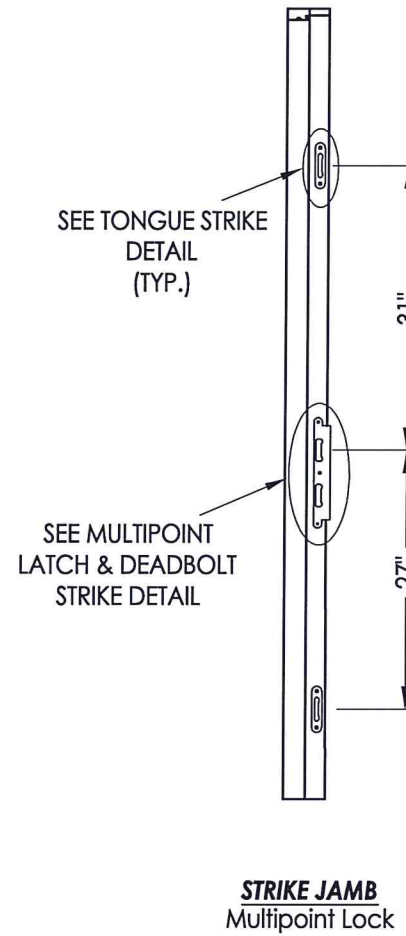
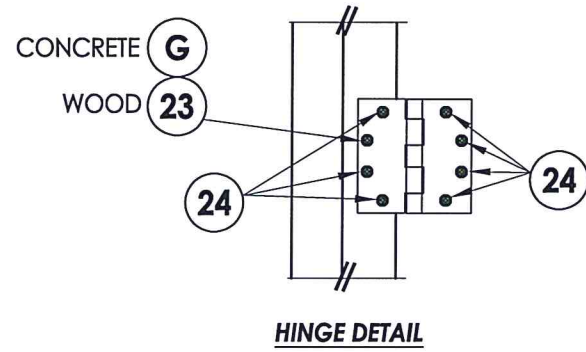
PRODUCT: MASTERGRAIN FIBERGLASS DOOR	
PART OR ASSEMBLY: FRAME ANCHORING	
NO.	DATE
1	3/05/20
UPDATE TO 2018 IBC/IRC CODE	
LFS	BY
REVISIONS	
DATE: 9/04/18	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4889	
SHEET 10 OF 12	



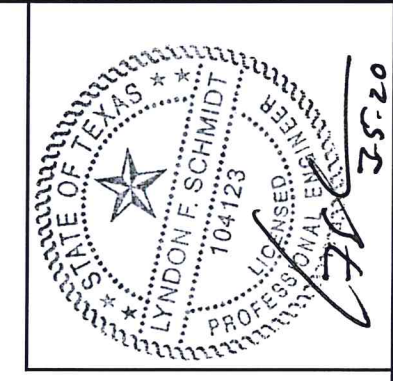
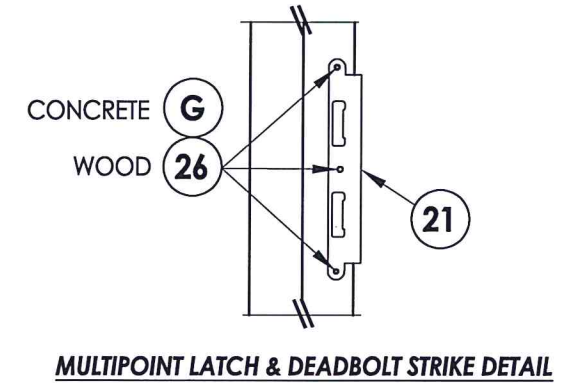
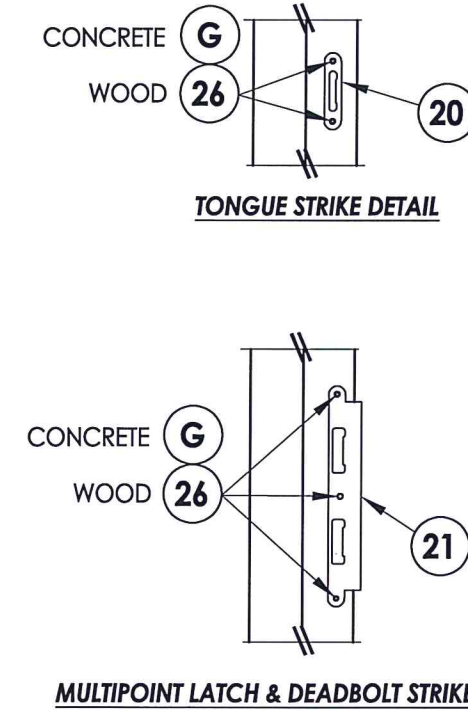
STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



MULTIPOINT LOCK HARDWARE 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
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	MASTERGRAIN FIBERGLASS DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS

NO.	DATE	DESCRIPTION	BY
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	9/04/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4889
SHEET	11 OF 12

BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
B	1X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" Ø PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
K	#10 PFH WS (1-3/4" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	COMPOSITE JAMB	COMP
3	MULLION	ALUM/COMP
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
13	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
14	OUTSWING BUMP THRESHOLD	ALUM/COMP
15	INSWING THRESHOLD (w/ SIDELITE ADAPTER)	ALUM/COMP
16	OUTSWING THRESHOLD (w/ SIDELITE ADAPTER)	ALUM/COMP
20	MULTIPOINT TONGUE STRIKE PLATE	STEEL
21	MULTIPOINT LATCH & DEADBOLT STRIKE PLATE	STEEL
23	#12 X 2-1/2" PFH WOOD SCREW	STEEL
24	#12 x 1" PFH WOOD SCREW	STEEL
26	#10 X 2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-

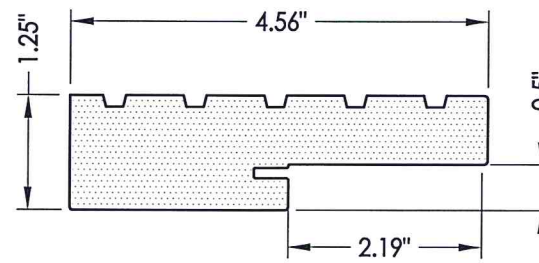
CONCRETE ANCHOR NOTES:

- 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:

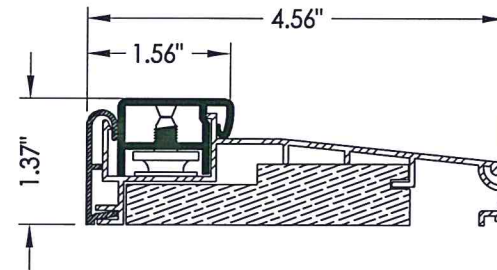
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

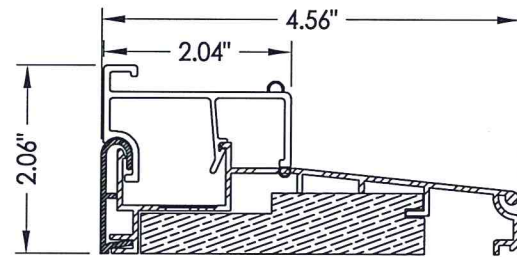
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



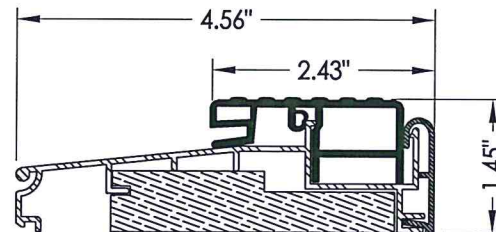
1 COMPOSITE JAMB
WORLDWIDE



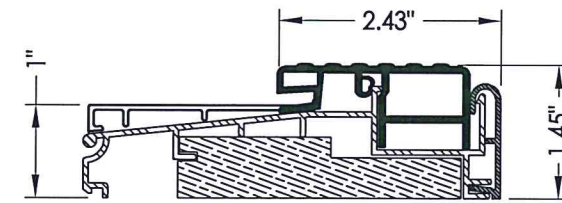
13 INSWING THRESHOLD
WORLDWIDE



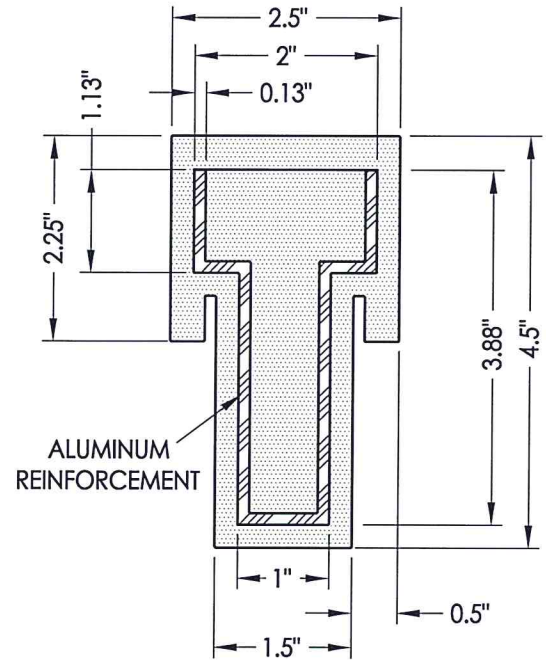
15 INSWING THRESHOLD w/ SIDELITE ADAPTER
WORLDWIDE



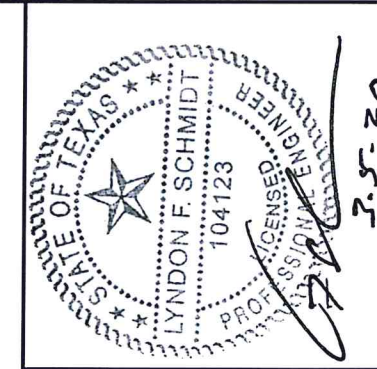
14 OUTSWING THRESHOLD
WORLDWIDE



16 OUTSWING THRESHOLD w/ SIDELITE ADAPTER
WORLDWIDE



3 COMPOSITE MULLION
WORLDWIDE



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TEXAS P.E. #104123

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	MASTERGRAIN FIBERGLASS DOOR	
PART OR ASSEMBLY:	BILL OF MATERIALS & COMPONENTS	
NO.	DATE	DESCRIPTION
1	3/05/20	UPDATE TO 2018 IBC/IRC CODE
LFS	BY	
REVISIONS		
DATE:	9/04/18	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4889	
SHEET	12	OF 12