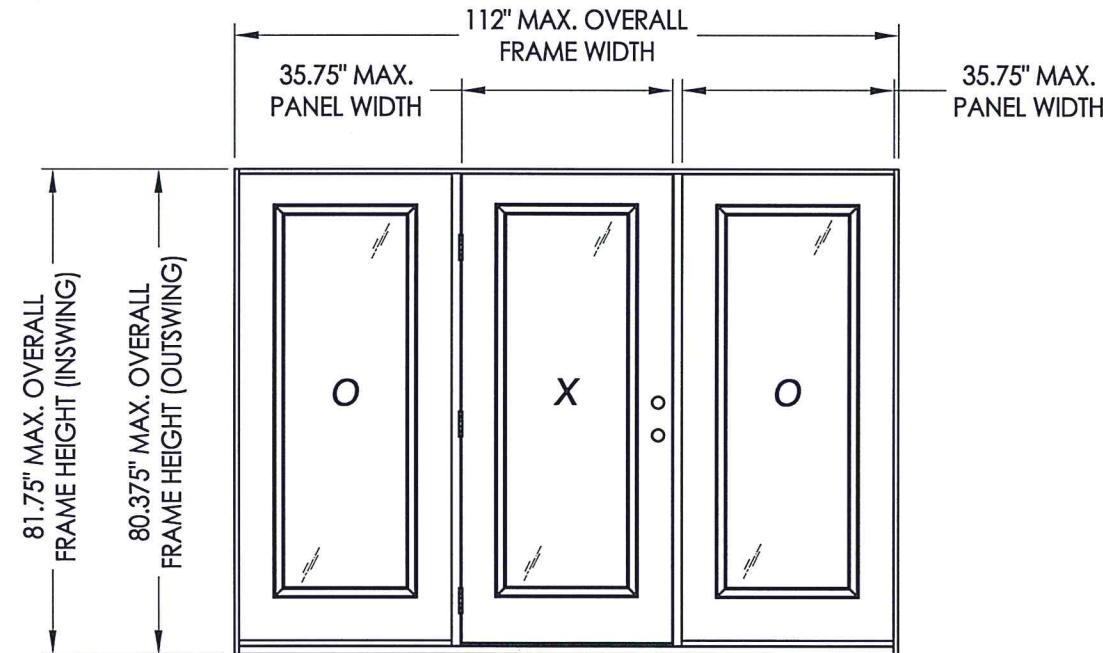
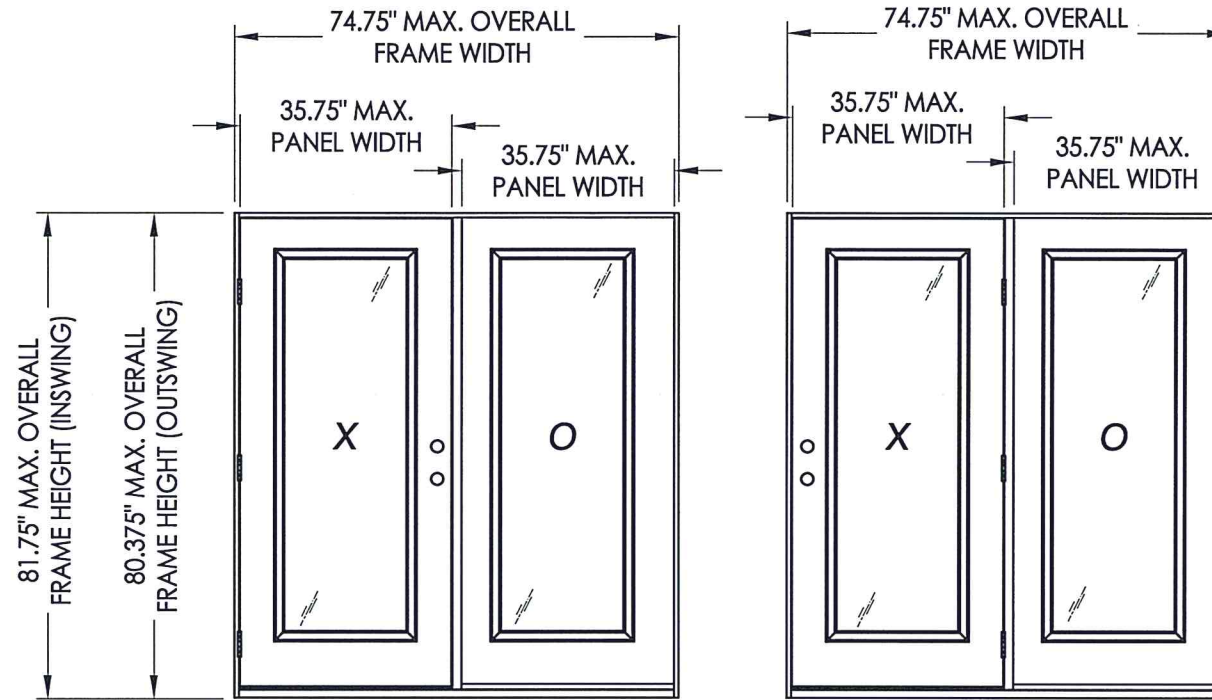




215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

Distributed by: McCoy's Building Supply
1350 I.H. 35 North
San Marcos, TX 78677

FIBERGLASS ENTRY DOOR INSWING / OUTSWING "IMPACT"



EVALUATED FOR USE IN THE STATE OF TEXAS

TDI DR-557

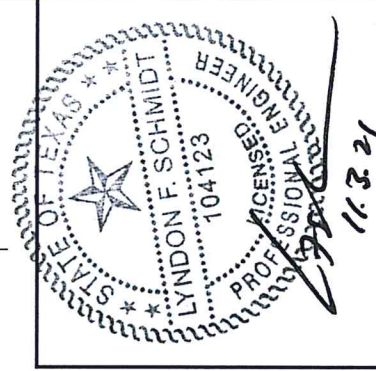
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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	Lite frame and glazing details
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Vertical cross sections
9	Frame anchoring
10	Bill of materials & components

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
OX/XO	74.75" x 81.75"	+50.0	-50.0
OXO	112.0" x 81.75"	+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: FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE

DATE: 06/20/12

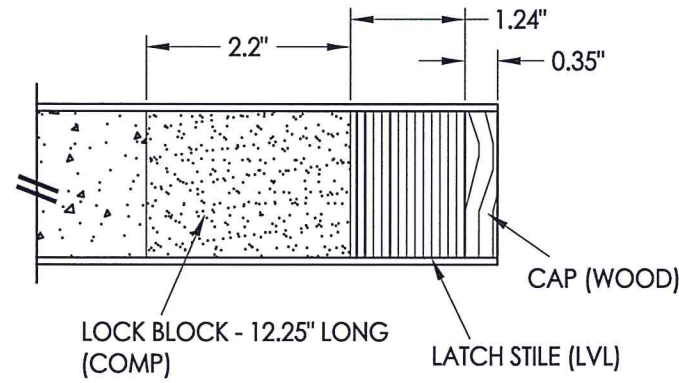
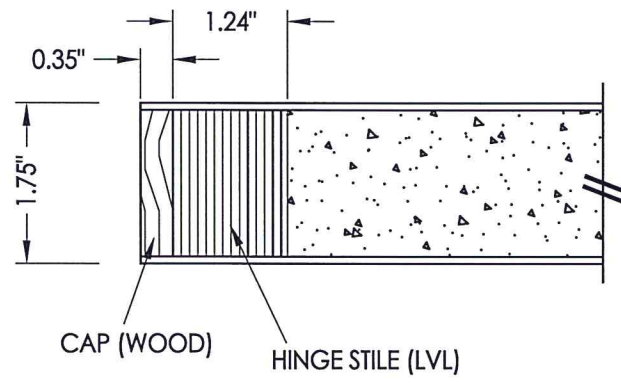
SCALE: N.T.S.

DWG. BY: JK

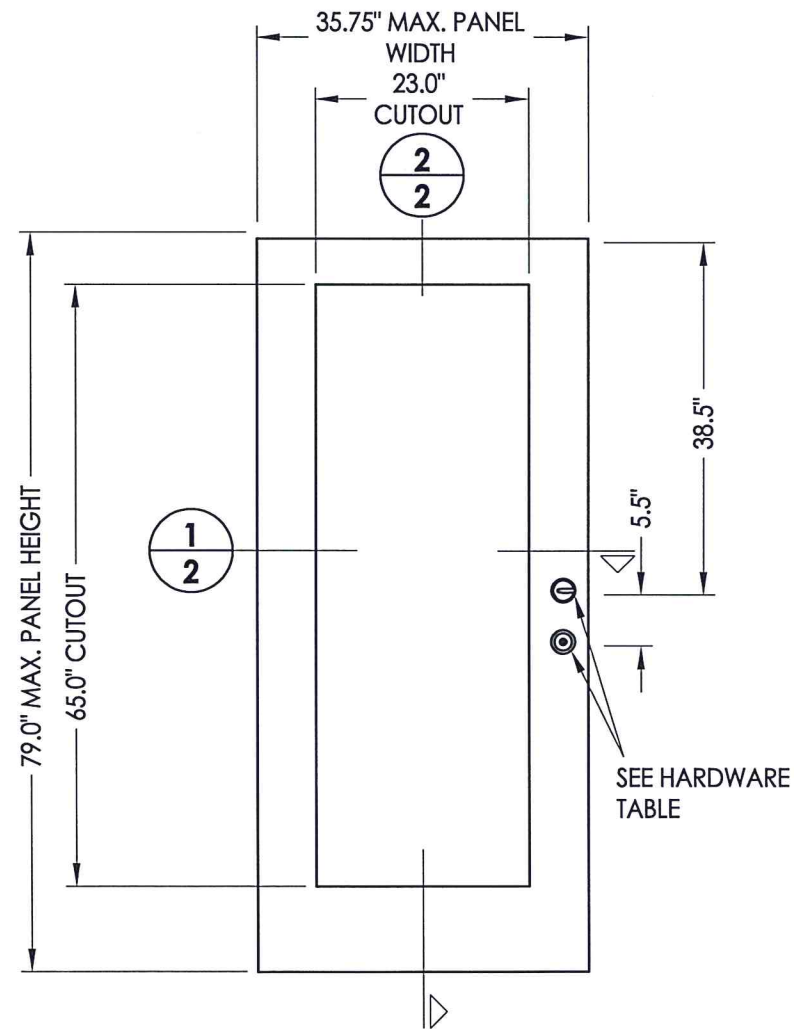
CHK. BY: LFS

DRAWING NO.: TX-4169

SHEET 1 OF 10



1
2 HORIZONTAL CROSS SECTION

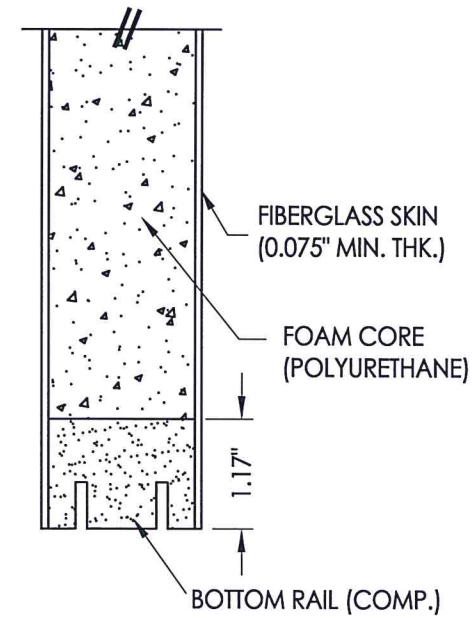
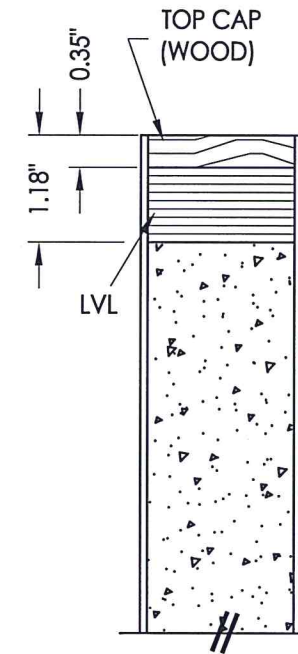


40 DOOR PANEL
Masonite

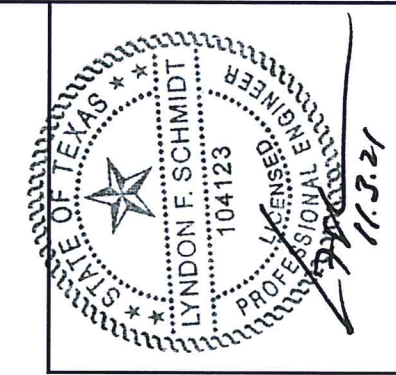
SEE HARDWARE TABLE

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 = +40/-50 PSF
OUTSWING = +40/-40 PSF



2
2 VERTICAL CROSS SECTION



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

PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE

DATE: 06/20/12

SCALE: N.T.S.

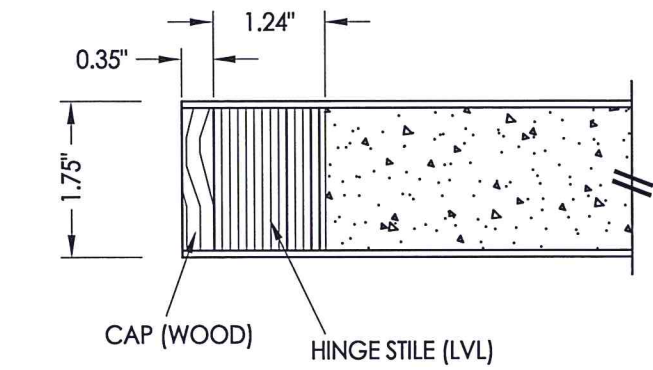
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CHK. BY: LFS

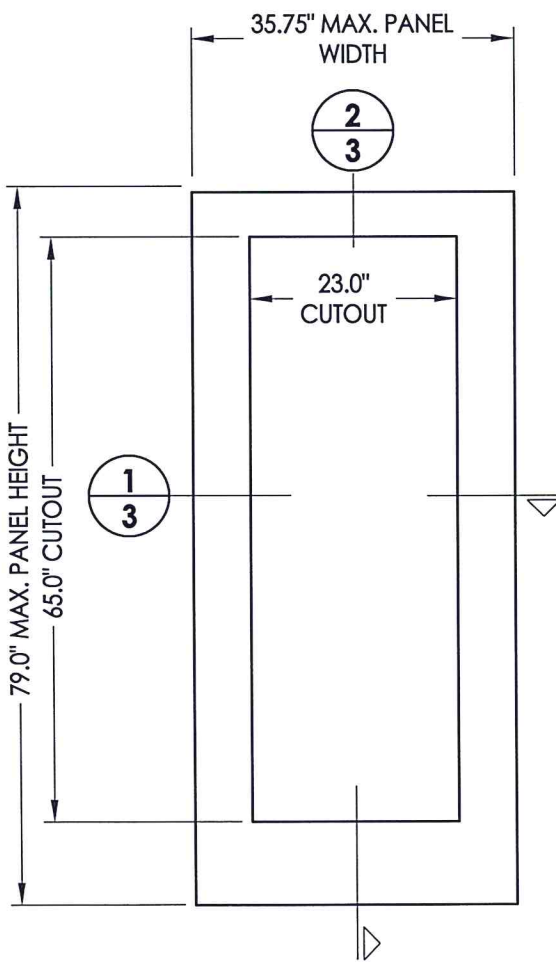
DRAWING NO.:

TX-4169

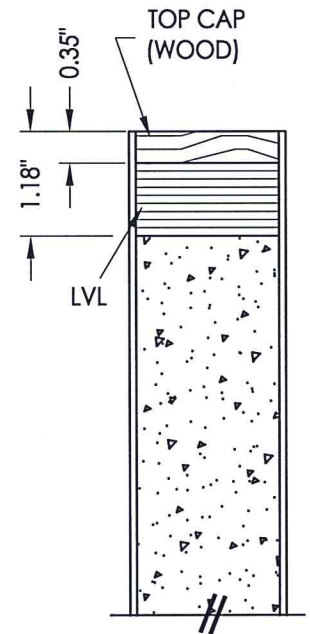
SHEET 2 of 10



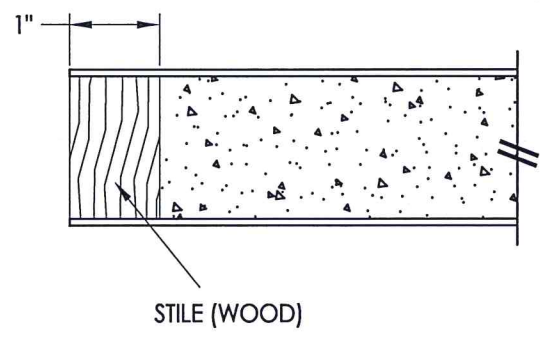
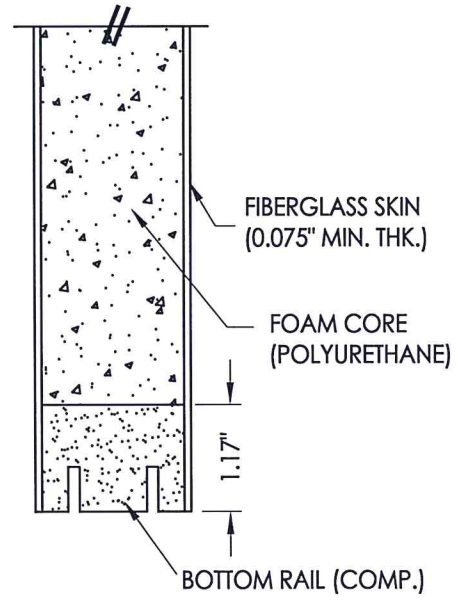
1
3 HORIZONTAL CROSS SECTION



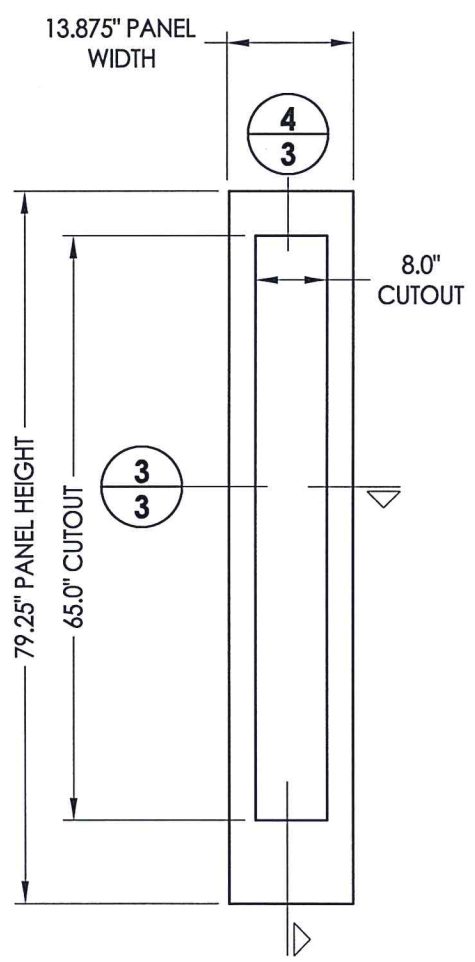
50 SIDELITE PANEL (36" NOM.)
Masonite



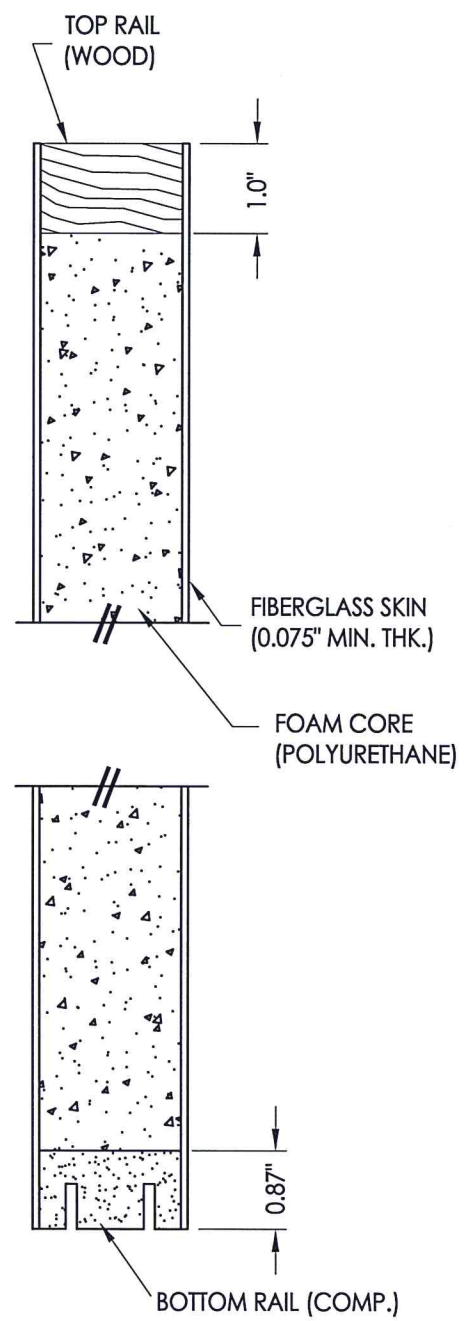
2
3 VERTICAL CROSS SECTION



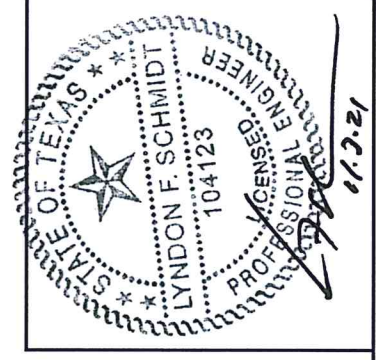
3
3 HORIZONTAL CROSS SECTION



51 SIDELITE PANEL (14" NOM.)
Masonite



4
3 VERTICAL CROSS SECTION



Documents Prepared By: Lyndon F. Schmidt, P.E.
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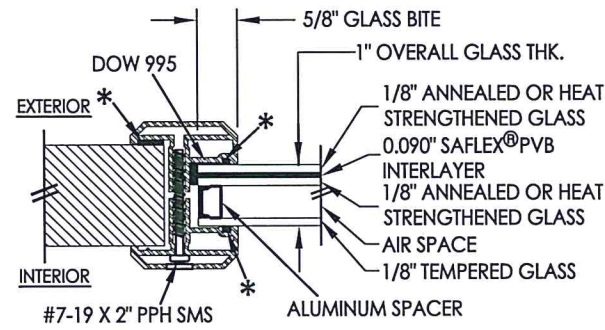
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

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

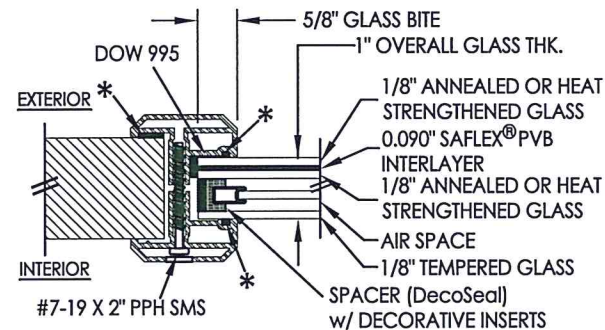
PRODUCT:	FIBERGLASS DOOR
PART OR ASSEMBLY:	SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE

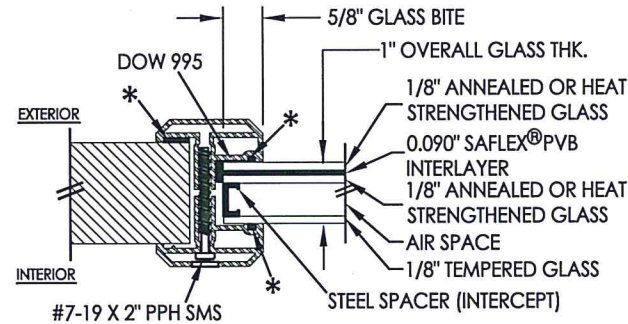
DATE:	06/20/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4169
SHEET	3 OF 10



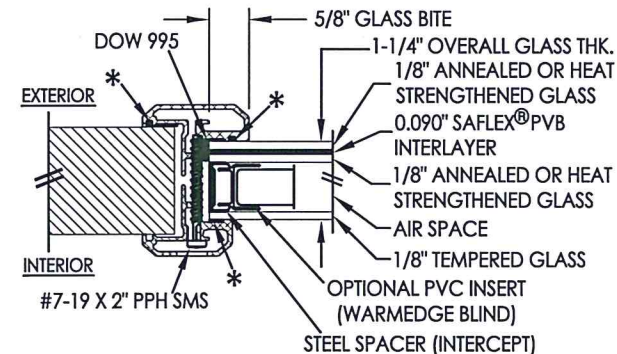
G1 GLAZING DETAIL
Flat Frame Profile



G3 GLAZING DETAIL
Flat Frame Profile

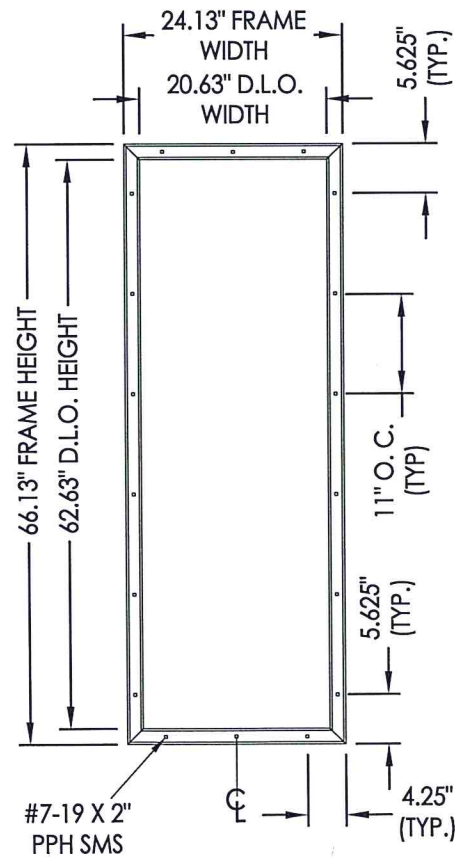


G2 GLAZING DETAIL
Flat Frame Profile

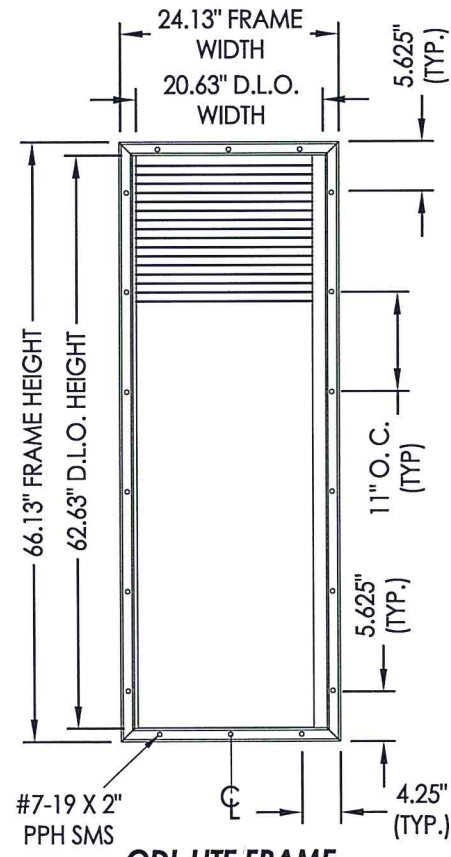


G4 GLAZING DETAIL
Flat Frame Profile
w/ Blinds Between Glass

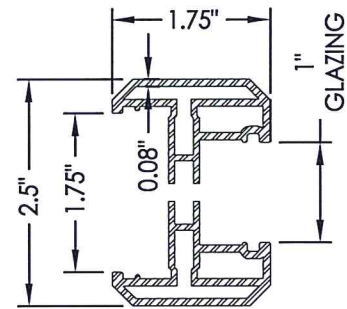
* NON-STRUCTURAL
BACKBEDDING
(READI-SEAL)



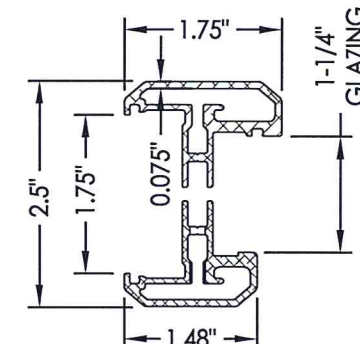
ODL LITE FRAME
"Flat Frame" Aluminum



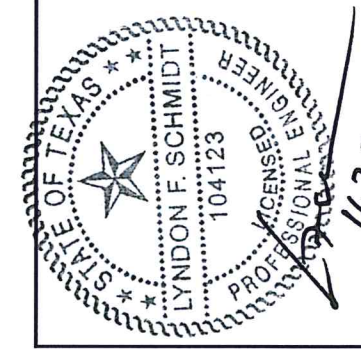
ODL LITE FRAME
"Flat Frame" Aluminum
w/ Blinds Between Glass



ODL LITE FLAT FRAME
1" GLAZING



ODL LITE FLAT FRAME
1-1/4" GLAZING



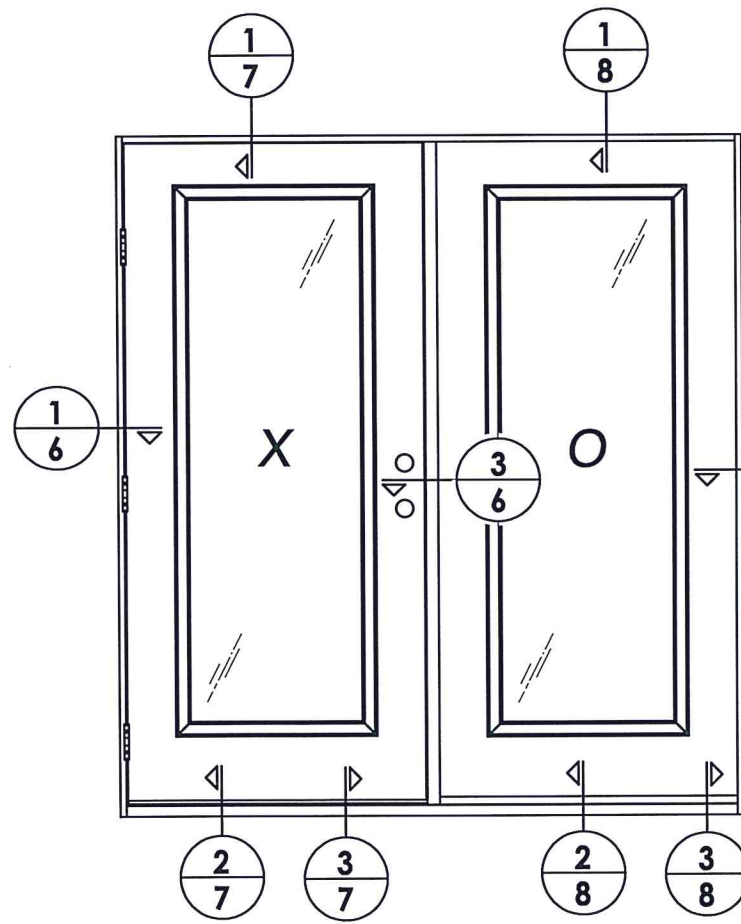
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

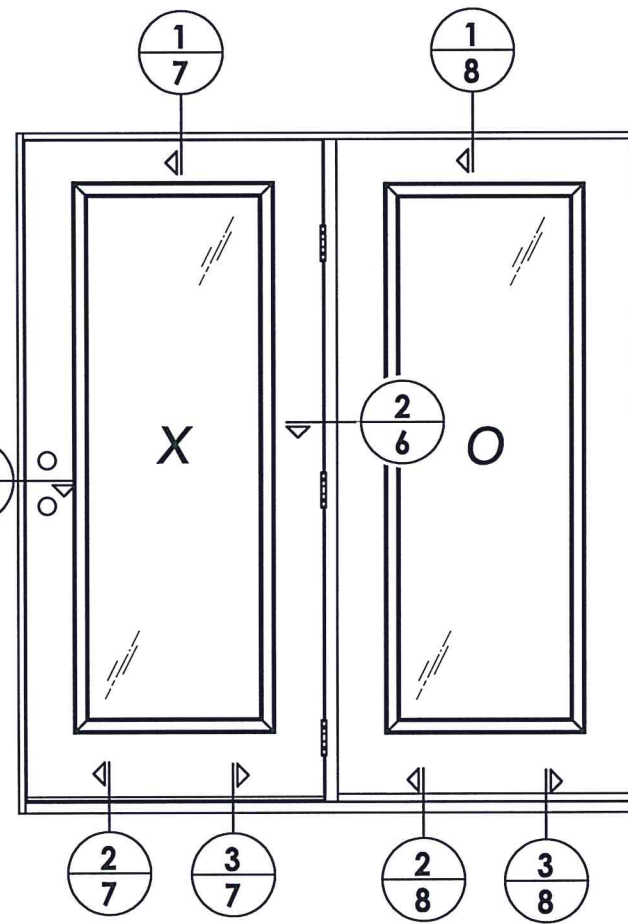
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: LITE FRAME & GLAZING DETAILS

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE

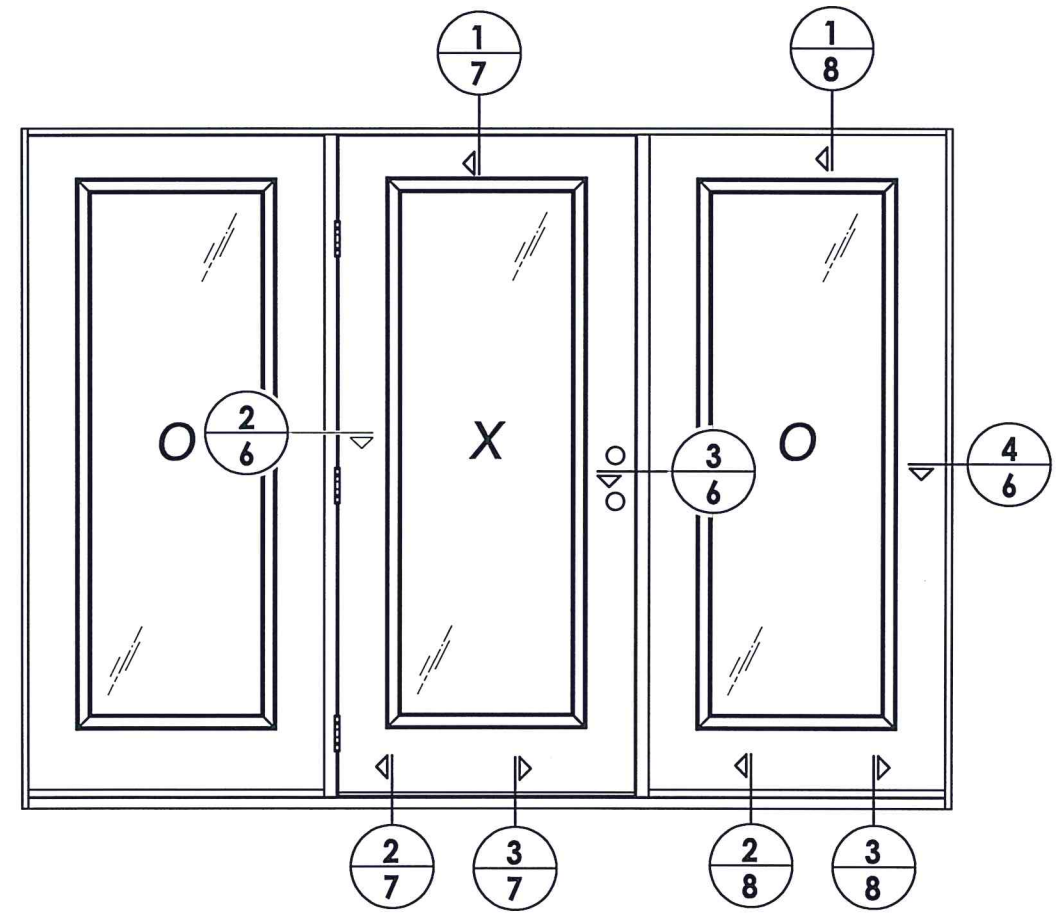
DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 4 OF 10



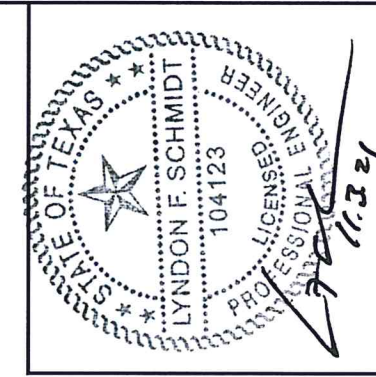
ELEVATION (XO - OX)



ELEVATION (XO - OX)
center hinge



ELEVATION (OXO)



Documents Prepared By: Lyndon F. Schmidt, P.E.
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Phone No.: 813.659.9197

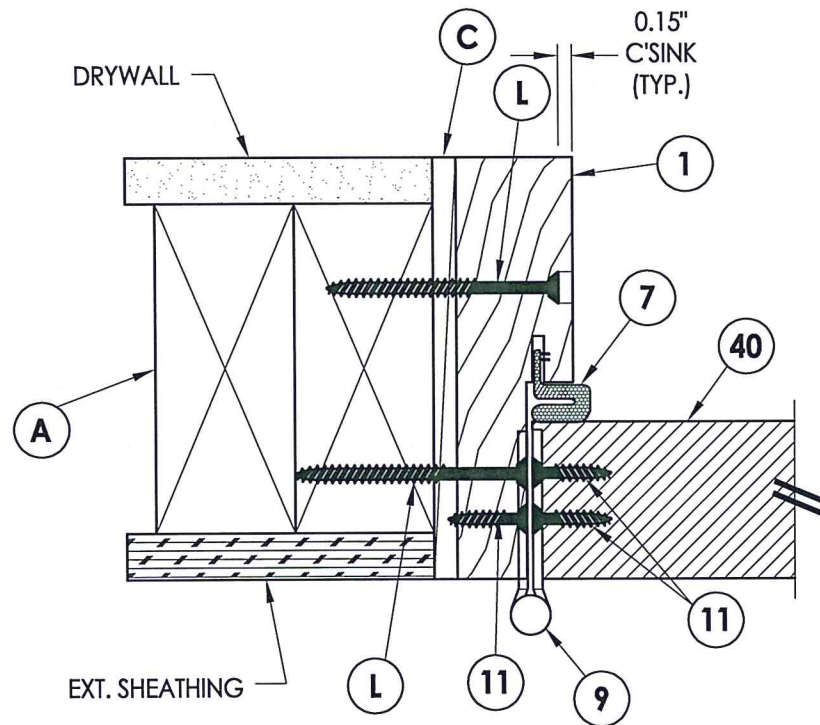
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: ELEVATIONS

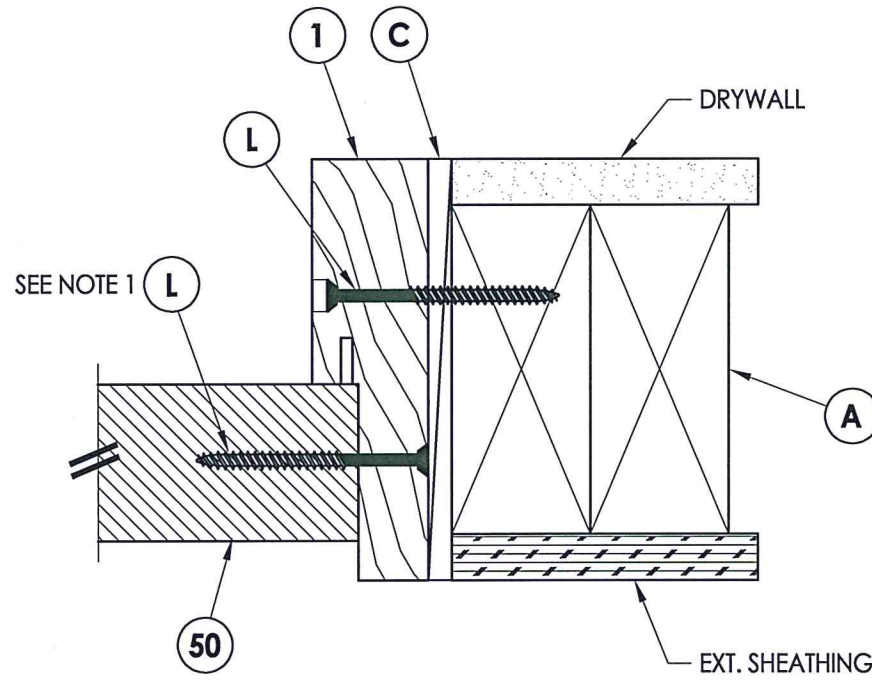
NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 5 of 10

Z:\Clients\ODL, Inc. PERMANENT\B - Texas Dept of Ins\YDI - 557\Drawings\TX-4168-70.dwg

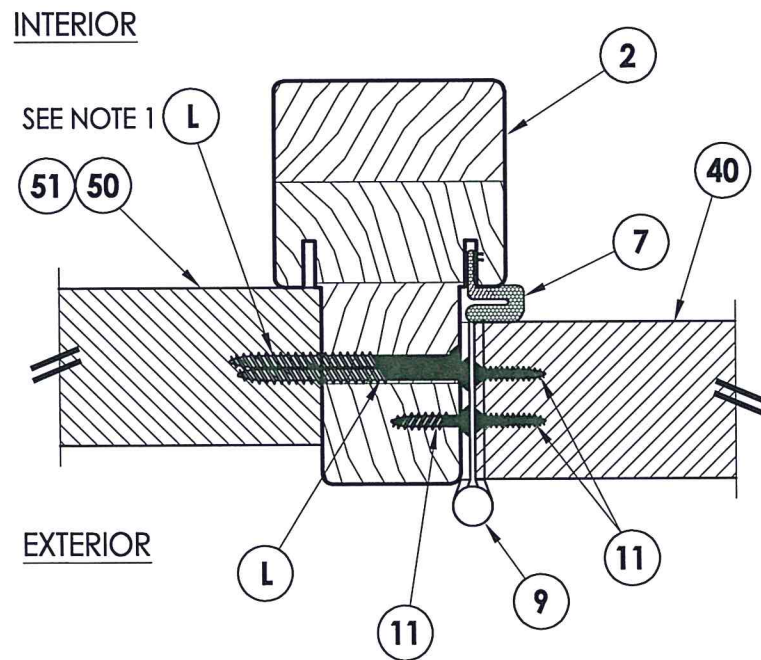


1 **HORIZONTAL CROSS SECTION**
6 Outswing shown - Inswing also approved

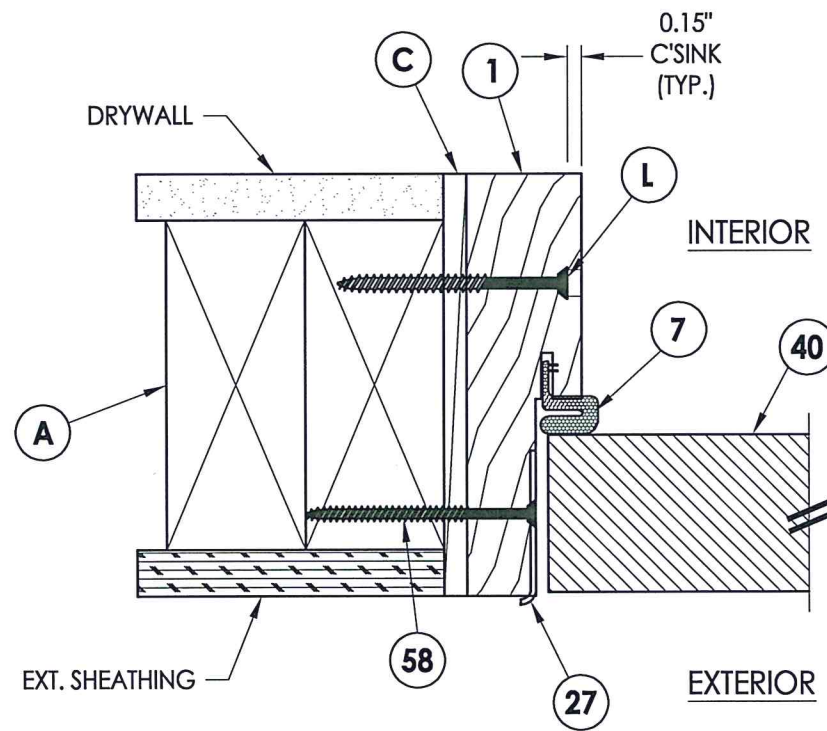


4 **HORIZONTAL CROSS SECTION**
6 Outswing shown - Inswing also approved

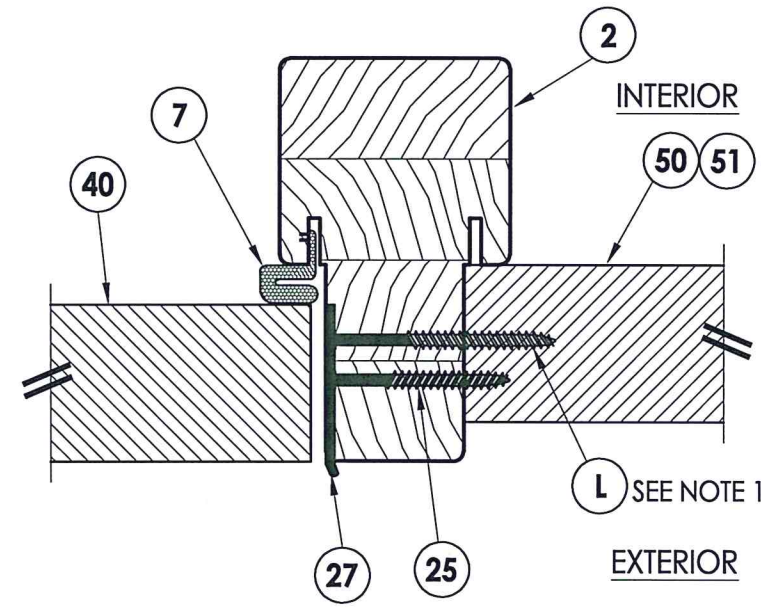
NOTE:
 1. Sidelite panel screws located 6" from each end and equally spaced (4 screws total)



2 **HORIZONTAL CROSS SECTION**
6 Outswing shown - Inswing also approved



5 **HORIZONTAL CROSS SECTION**
6 Outswing shown - Inswing also approved



3 **HORIZONTAL CROSS SECTION**
6 Outswing shown - Inswing also approved



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

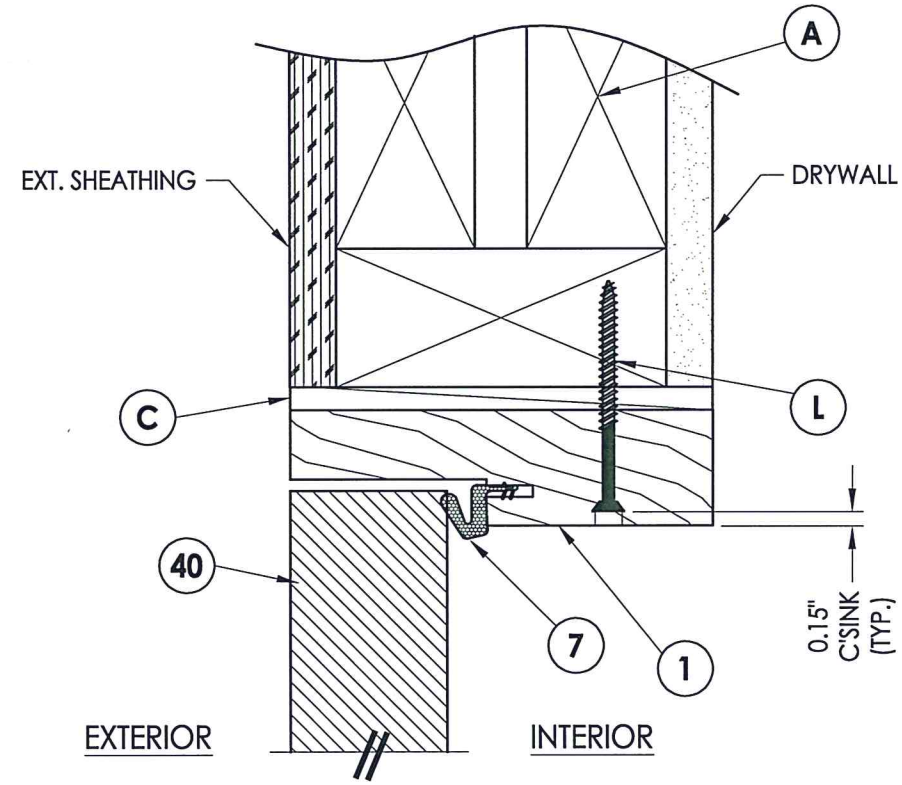
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL, 33595
 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR
 PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

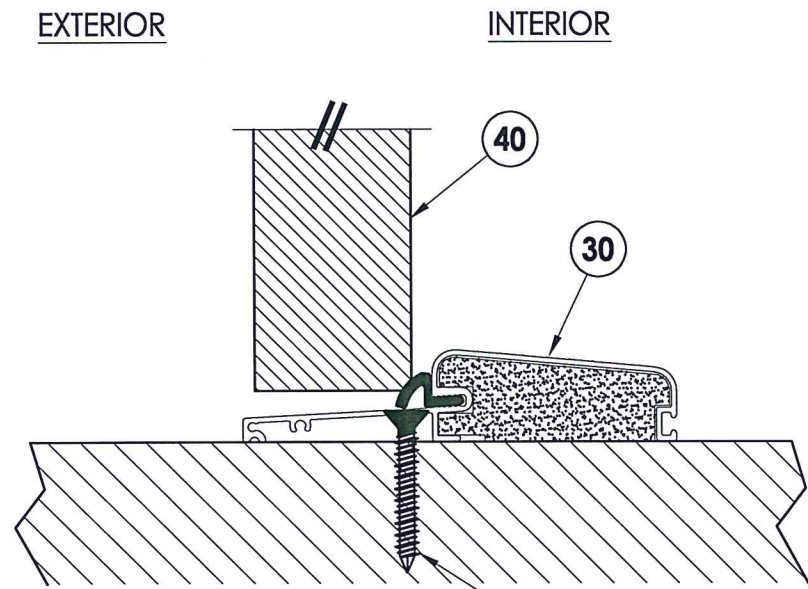
NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE

DATE: 06/20/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4169
 SHEET 6 OF 10

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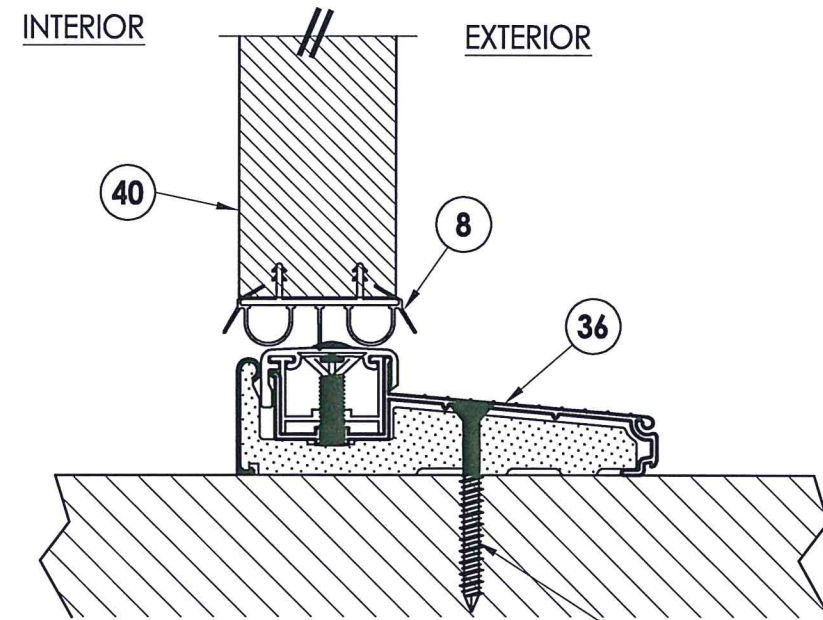


1 VERTICAL CROSS SECTION
 7 Outswing shown - inswing also approved



2 VERTICAL CROSS SECTION
 7 Outswing configuration

J WOOD
D CONCRETE



3 VERTICAL CROSS SECTION
 7 Inswing configuration

J WOOD
D CONCRETE



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

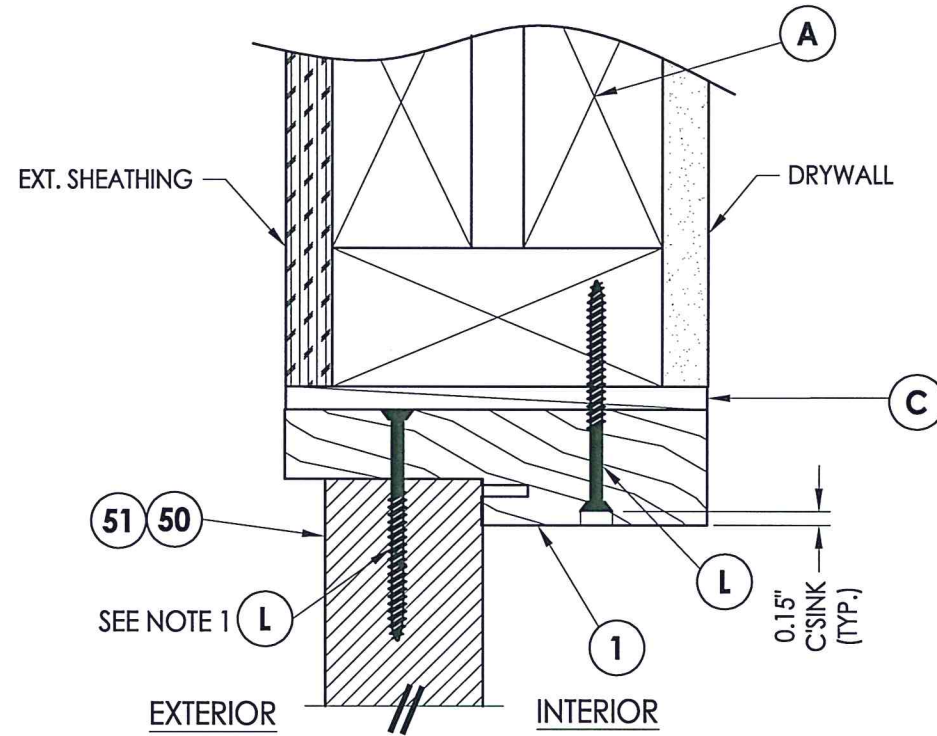
TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR

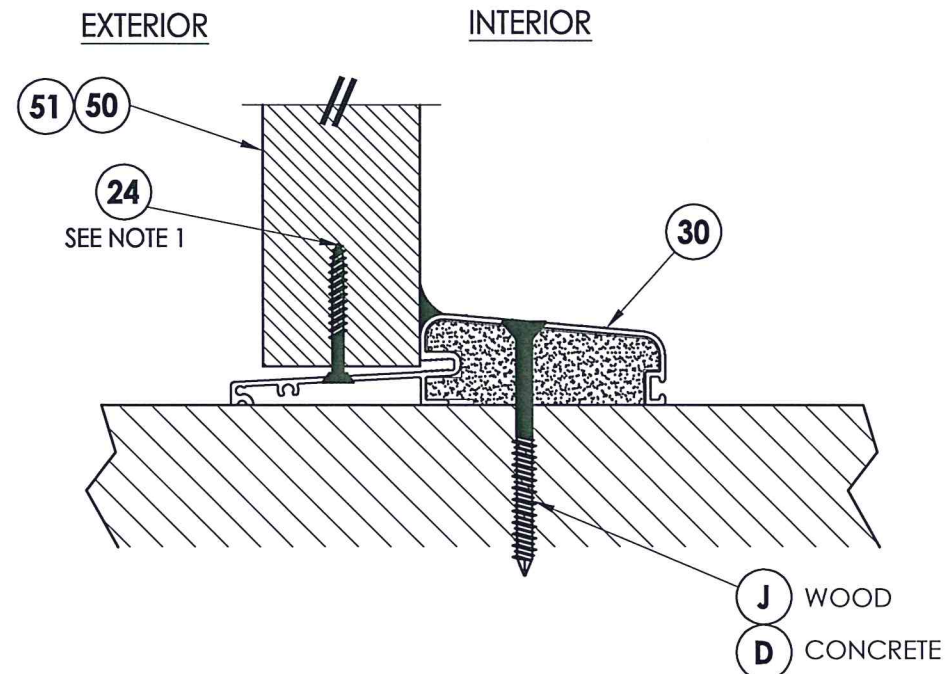
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE
		BY

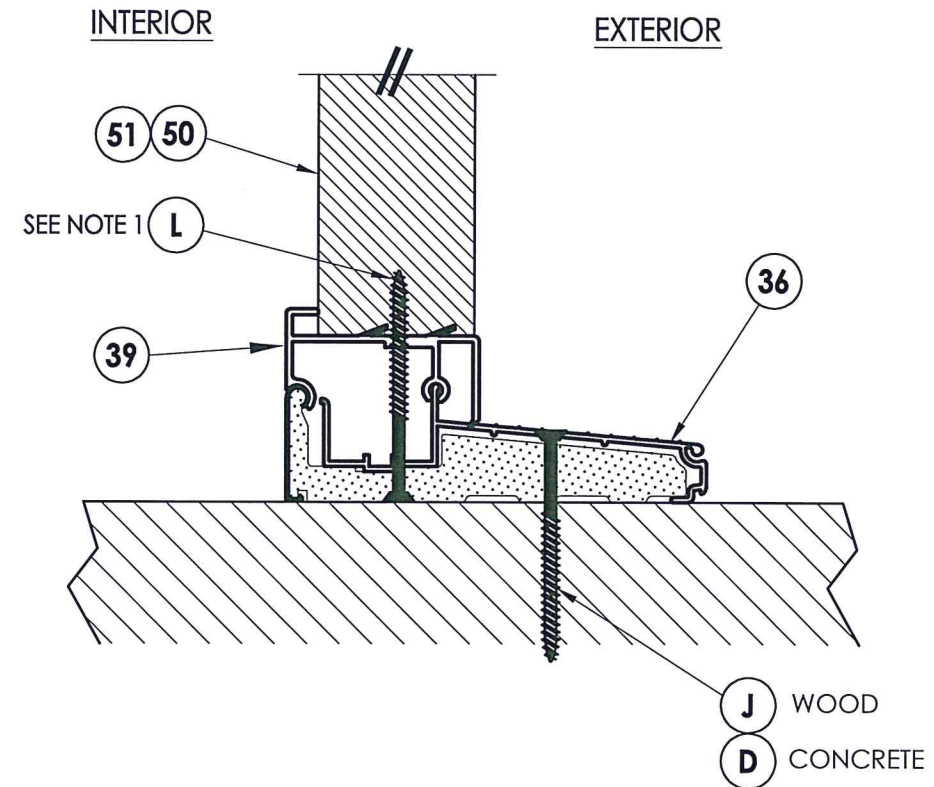
DATE: 06/20/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4169
 SHEET 7 OF 10



1 VERTICAL CROSS SECTION
8 Outswing shown - Inswing also approved

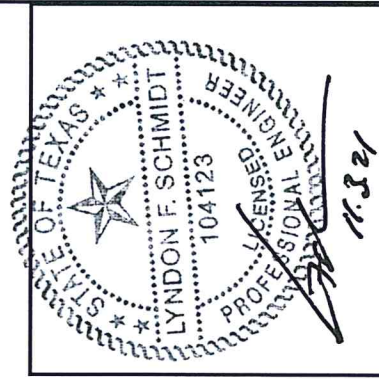


2 VERTICAL CROSS SECTION
8 Outswing shown



3 VERTICAL CROSS SECTION
8 Inswing shown

NOTE:
 1. Sidelite panel screws located 3" from each end (2 Total). Not required for Sidelites less than 14" in width.



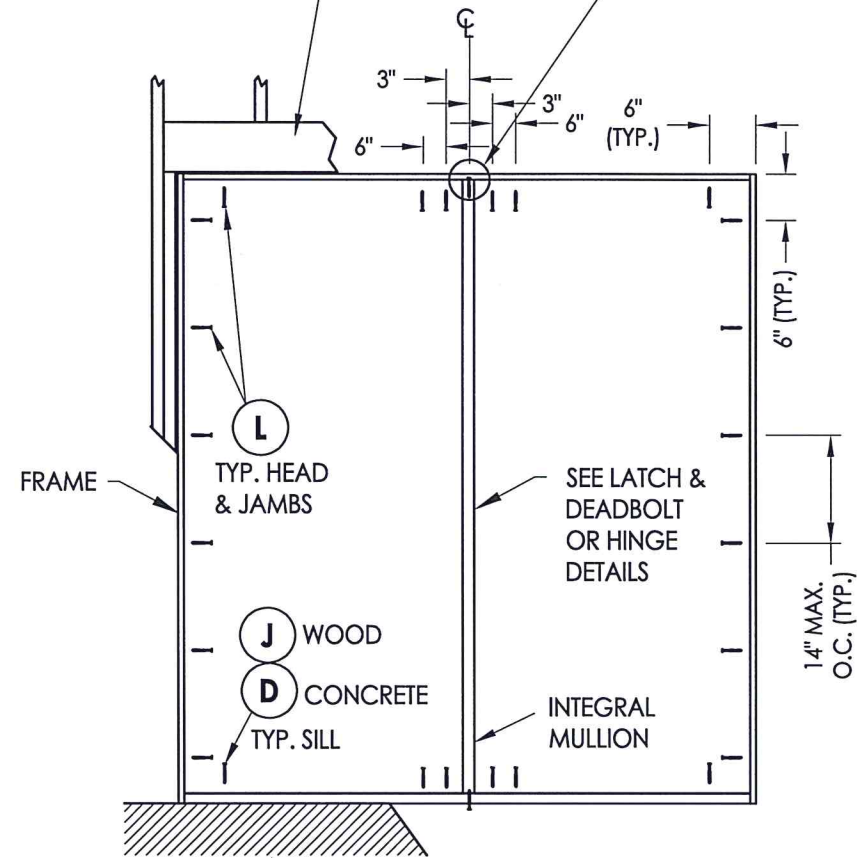
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123

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:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
4	10/21/21	LFS	UPDATE TO 2018 IBC/IRC
3	5/16/18	JK	ADD FLAT FRAME LITE PROFILE
2	12/14/15	JK	ADD H.S. GLAZING OPTION
1	11/27/12	LFS	REVISED GLAZING/HARDWARE
DATE: 06/20/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4169			
SHEET 8 of 10			

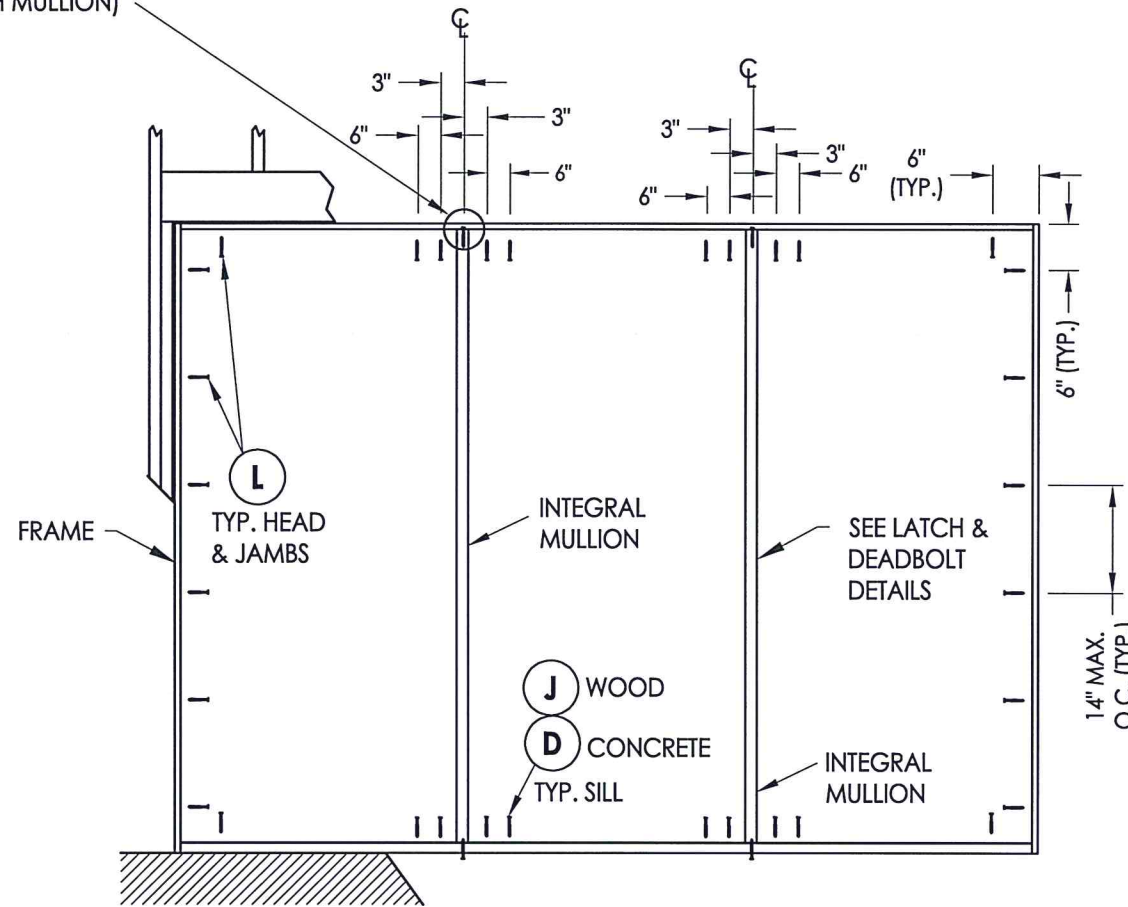
2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED (TYP.).

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

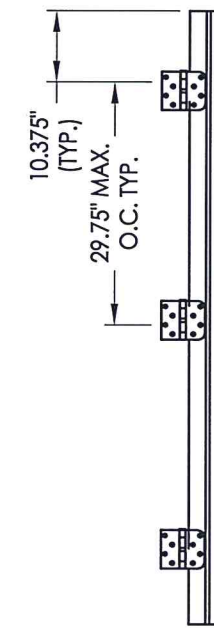


FRAME ANCHORING
OX/XO

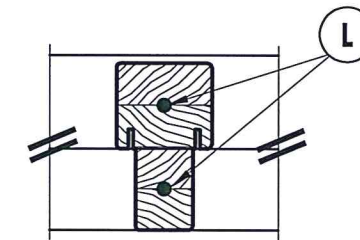
FLOOR SUBSTRATE MATERIAL (TYP.)
CONCRETE (MIN. 3000 PSI)
WOOD ($G \geq 0.42$)



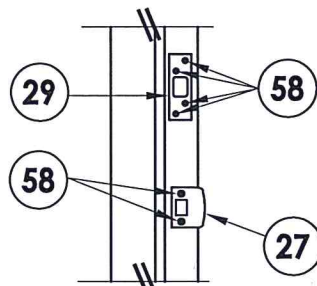
FRAME ANCHORING
OXO



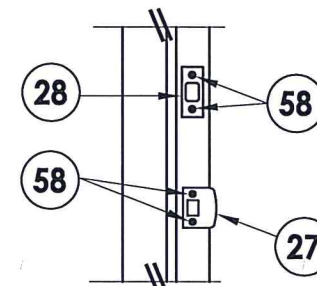
HINGE LOCATIONS



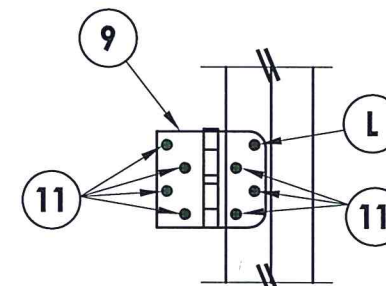
INTEGRAL MULLION ATTACHMENT DETAIL



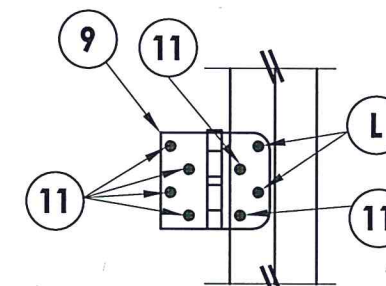
LATCH AND DEADBOLT DETAIL
Kwikset



LATCH AND DEADBOLT DETAIL
Schlage / Pamex



HINGE DETAIL
Outswing



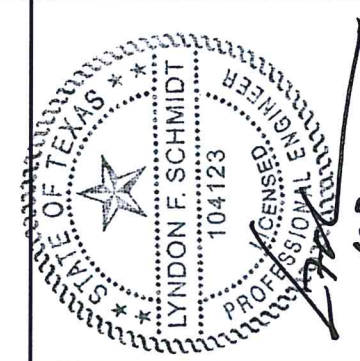
HINGE DETAIL
Inswing

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"	2-1/2"	3"



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

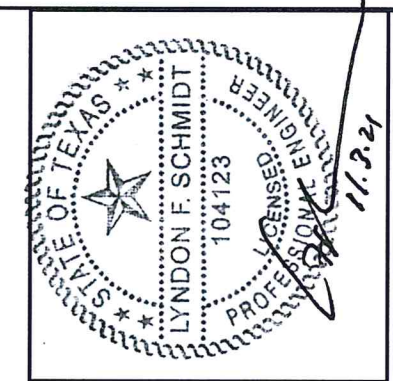
PRODUCT:	FIBERGLASS DOOR
PART OR ASSEMBLY:	FRAME ANCHORING

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
1	11/27/12	REVISED GLAZING/HARDWARE

DATE:	06/20/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4169
SHEET	9 of 10

BILL OF MATERIALS

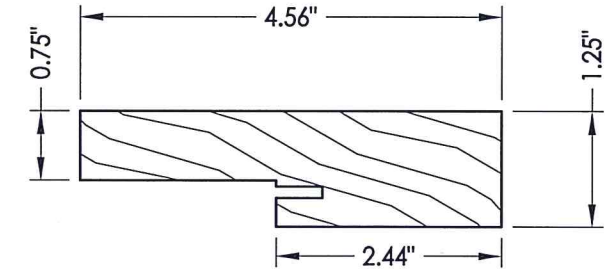
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL
1	HEAD & JAMB - FINGER-JOINT PINE (G >= 0.42)	WOOD
2	INTEGRAL MULLION - FAT BOY (PINE)	WOOD
7	WEATHERSTRIP (Q'LON QEBD-650)	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	4" X 4" BUTT 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
29	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
30	OUTSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
39	SIDELITE SPACER - INSWING	PVC
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
51	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
58	#8 X 2-1/2" PFH WOOD SCREW	STEEL



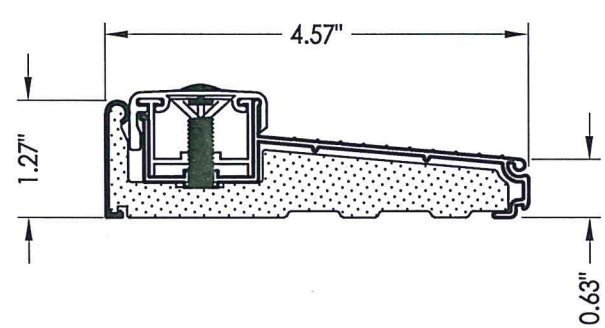
Documents Prepared By: Lyndon F. Schmidt, P.E.
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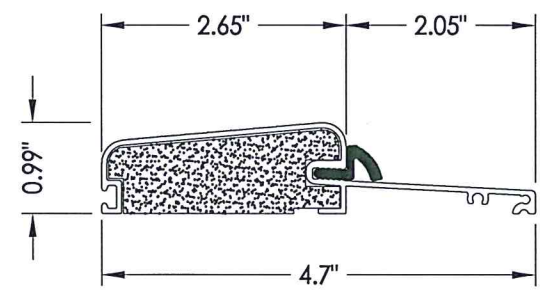
TEXAS BOARD OF PROFESSIONAL ENGINEERS
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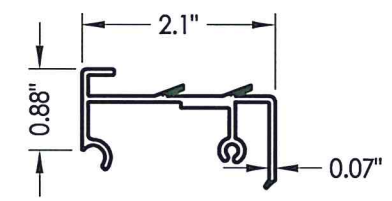
1 HEAD & JAMB
Finger joint pine



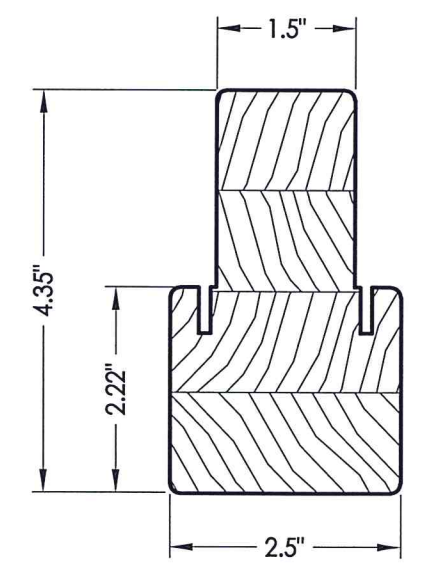
36 INSWING THRESHOLD
Columbia 900 Series



30 OUTSWING THRESHOLD
Columbia 775 Series
w/ Composite Substrate



39 SIDELITE SPACER
Inswing



2 INTEGRAL MULLION

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IBC/IRC
3	5/16/18	ADD FLAT FRAME LITE PROFILE
2	12/14/15	ADD H.S. GLAZING OPTION
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DATE: 06/20/12

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DWG. BY: JK

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DRAWING NO.: TX-4169

SHEET 10 of 10