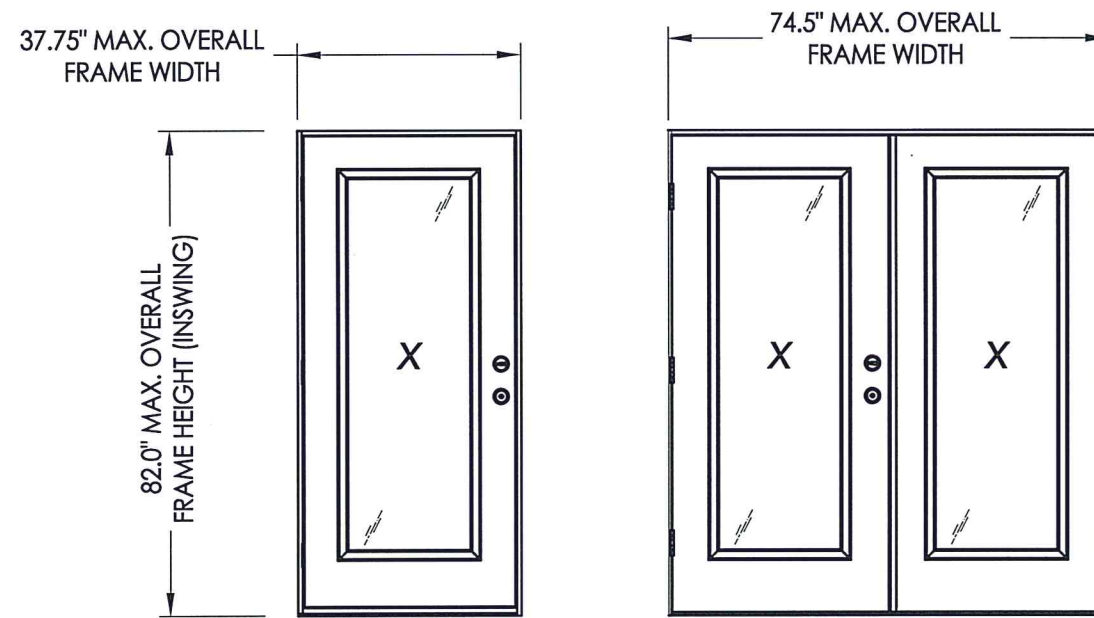


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

FIBERGLASS ENTRY DOOR INSWING "IMPACT"



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 panel details
3	Life frame and glazing details
4	Elevations & hardware table
5	Horizontal cross sections
6	Vertical cross sections
7	Frame anchoring
8	Astragal details
9	Bill of materials & components

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING	
		POSITIVE	NEGATIVE
X	37.75" x 82.0"	+45.0	-50.0
XX	74.5" x 82.0"	+45.0	-50.0

PRODUCT: FIBERGLASS DOOR

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

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

DATE: 6/13/13

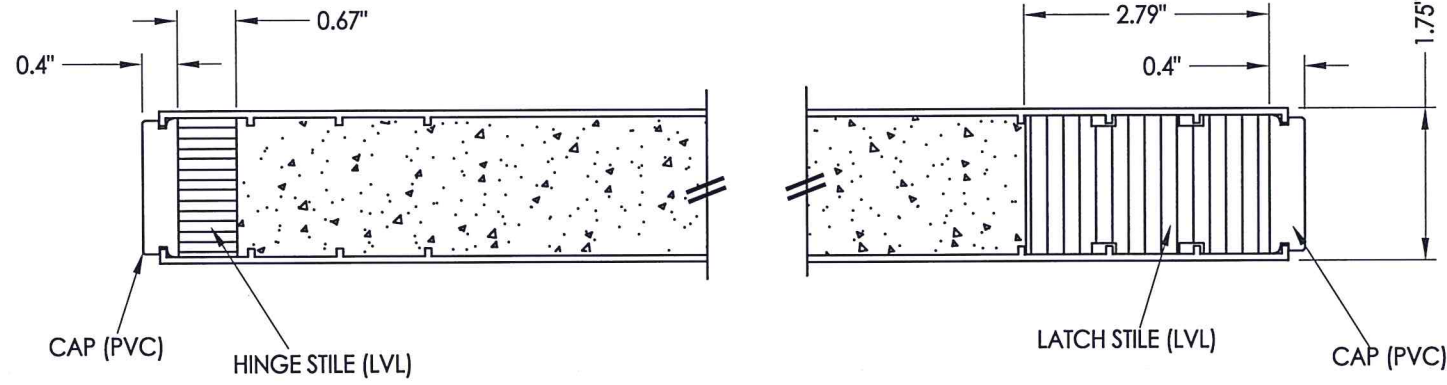
SCALE: N.T.S.

DWG. BY: JK

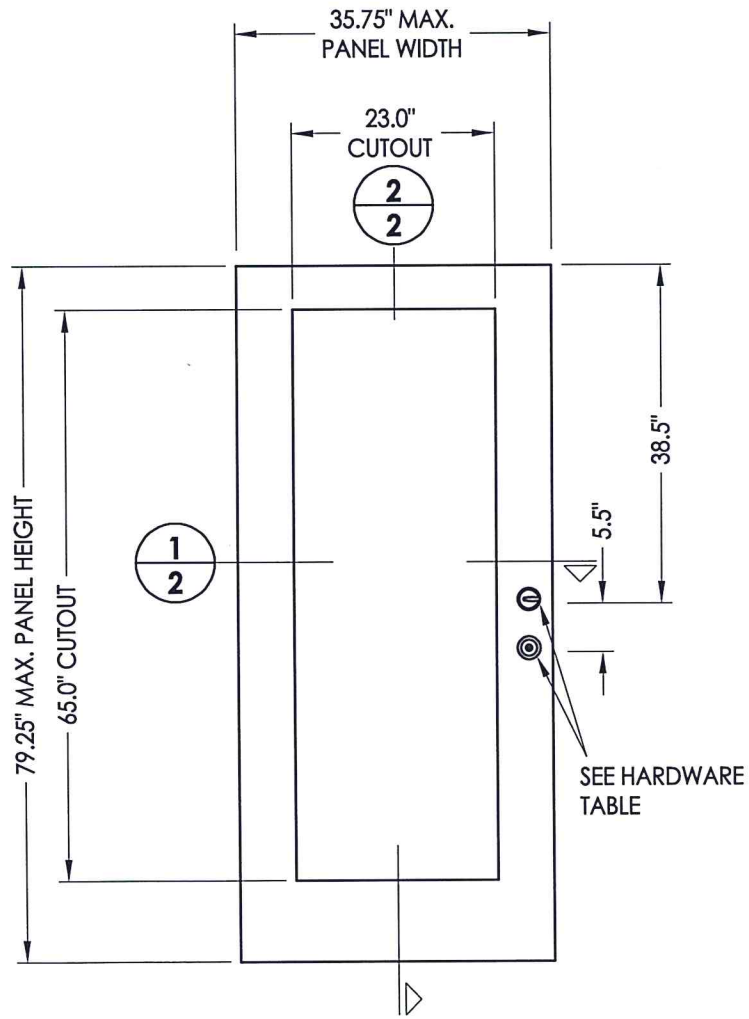
CHK. BY: LFS

DRAWING NO.: TX-4372

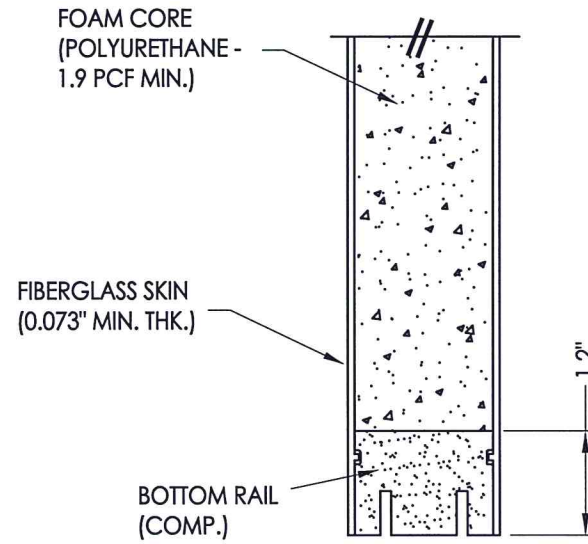
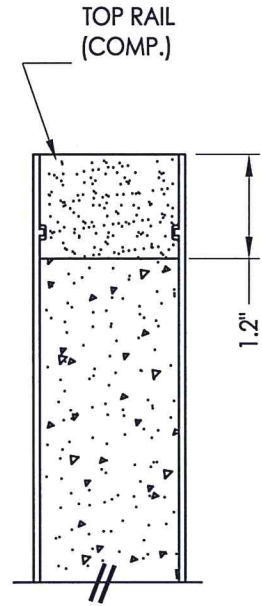
SHEET 1 OF 9



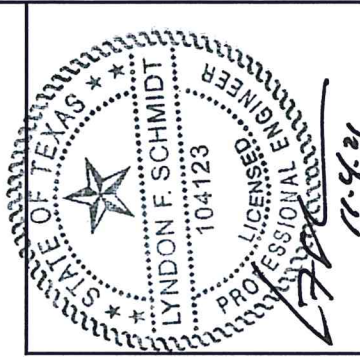
1 HORIZONTAL CROSS SECTION
2



- 40** DOOR PANEL
Plastpro
- 50** SIDELITE PANEL
Fiberglass (Plastpro)



2 VERTICAL CROSS SECTION
2



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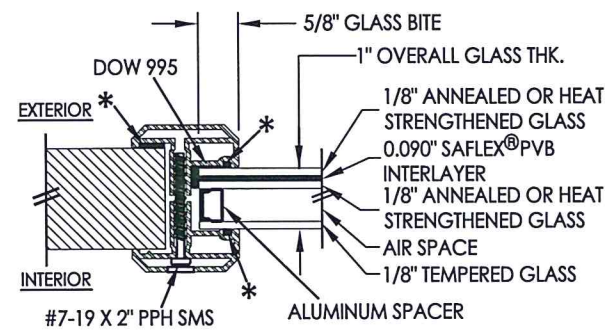
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

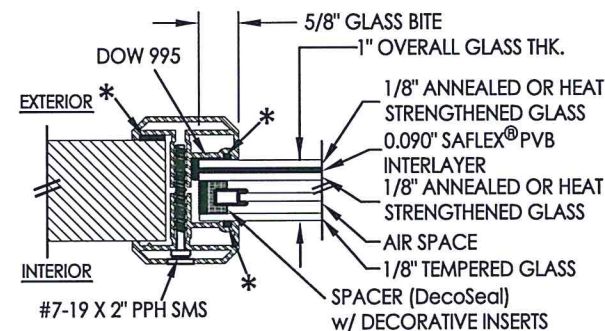
PRODUCT:	FIBERGLASS DOOR
PART OR ASSEMBLY:	DOOR/SIDELITE PANEL DETAILS

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

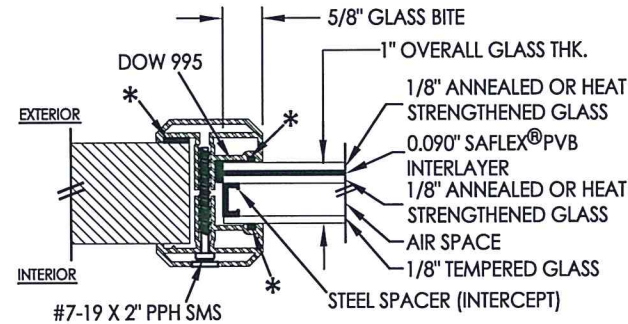
DATE:	6/13/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4372
SHEET	2 OF 9



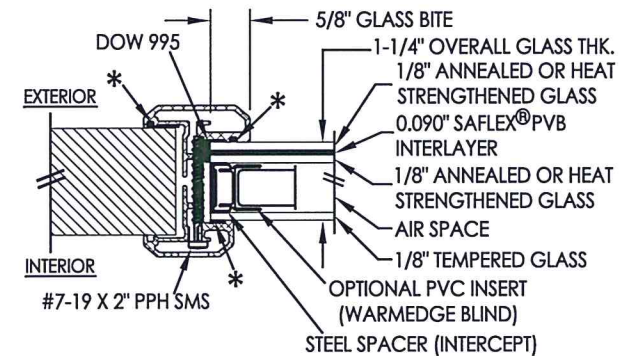
G1 GLAZING DETAIL
Flat Frame Profile



G3 GLAZING DETAIL
Flat Frame Profile

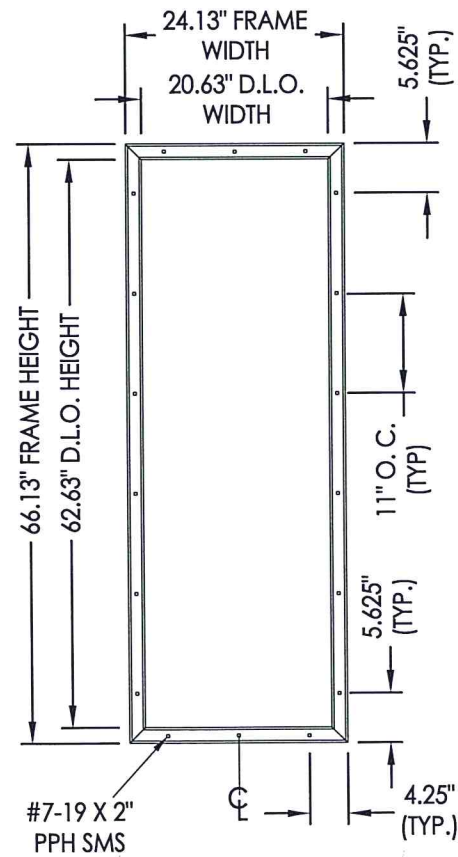


G2 GLAZING DETAIL
Flat Frame Profile

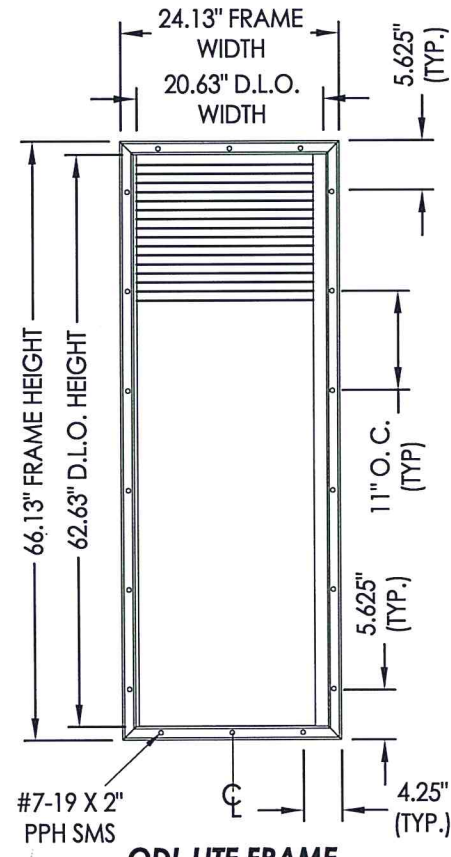


G4 GLAZING DETAIL
Flat Frame Profile
w/ Blinds Between Glass

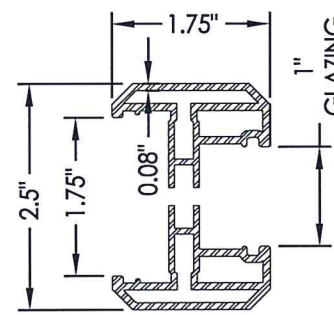
* NON-STRUCTURAL
BACKBEDDING
(READI-SEAL)



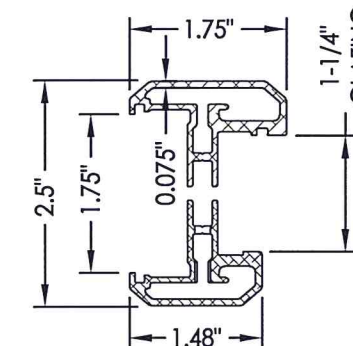
ODL LITE FRAME
"Flat Frame" Aluminum



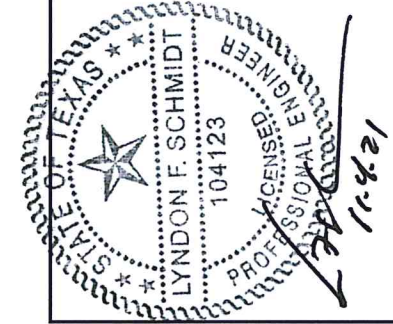
ODL LITE FRAME
"Flat Frame" Aluminum
w/ Blinds Between Glass



ODL LITE FLAT FRAME
1" GLAZING



ODL LITE FLAT FRAME
1-1/4" GLAZING



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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:
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

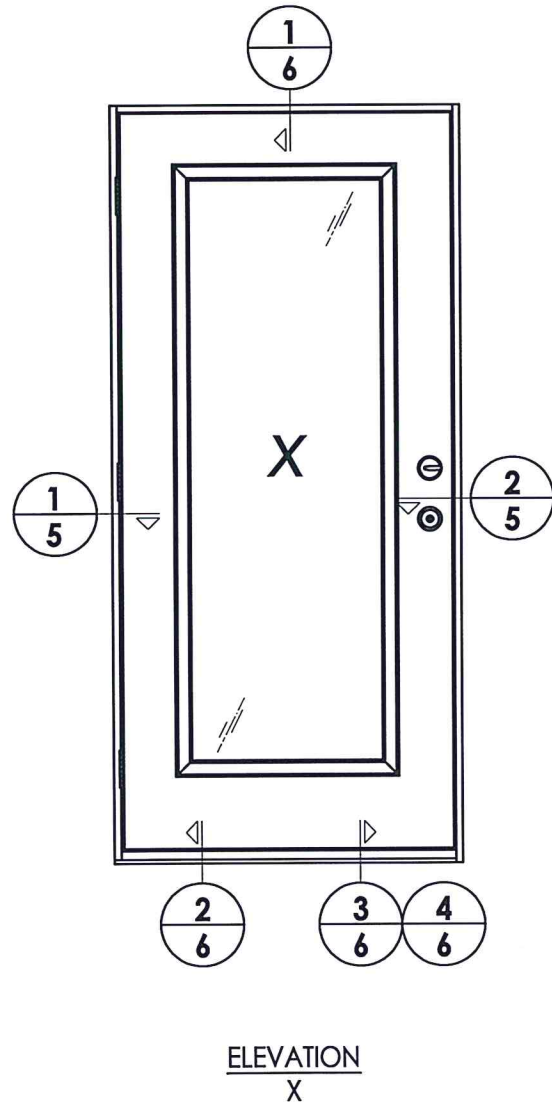
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CHK. BY: LFS

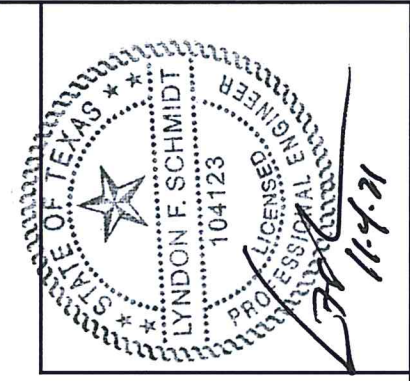
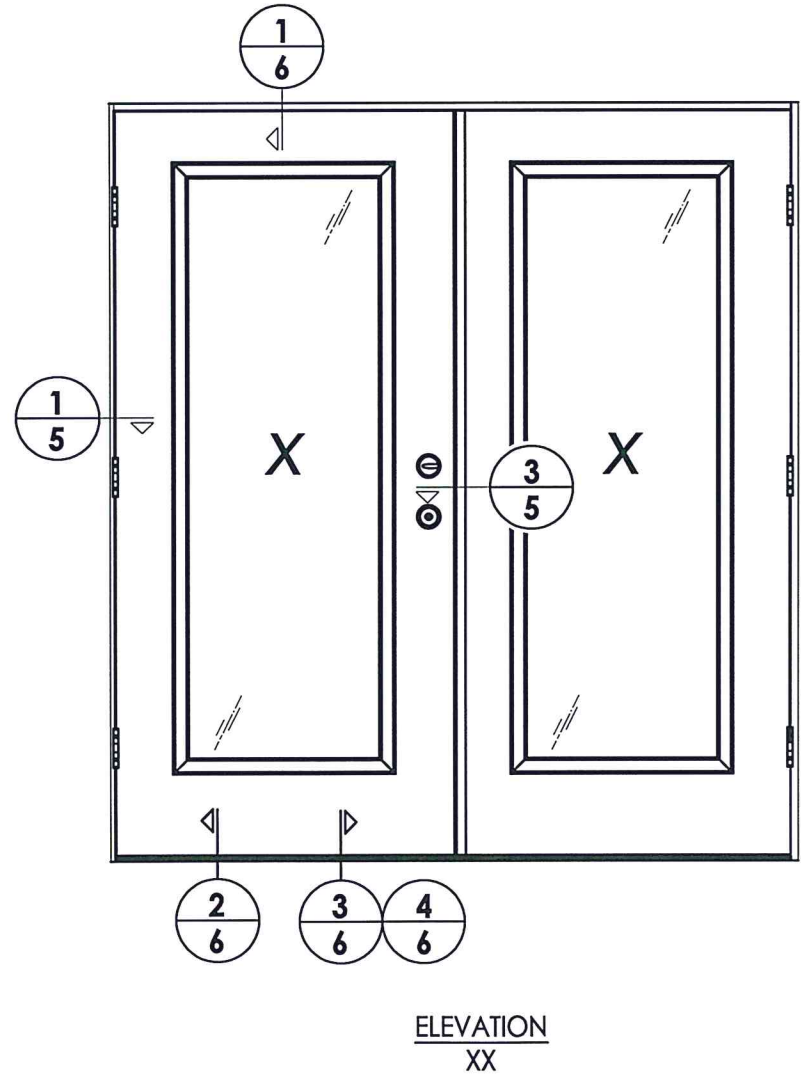
DRAWING NO.:
TX-4372

SHEET 3 OF 9



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



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

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS & HARDWARE TABLE

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

DATE: 6/13/13

SCALE: N.T.S.

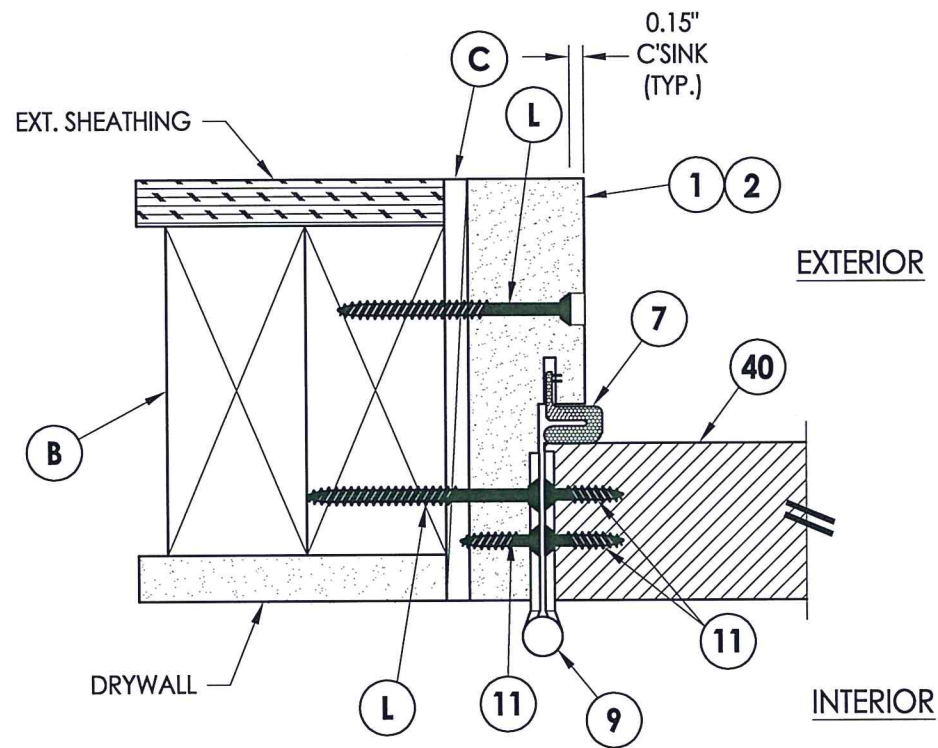
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CHK. BY: LFS

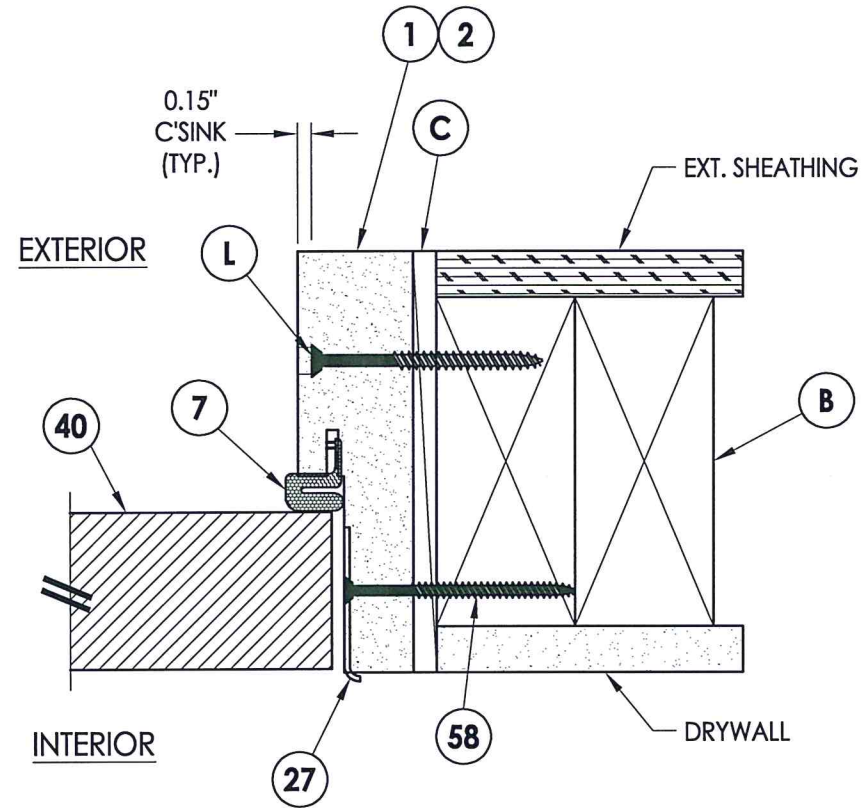
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SHEET 4 OF 9

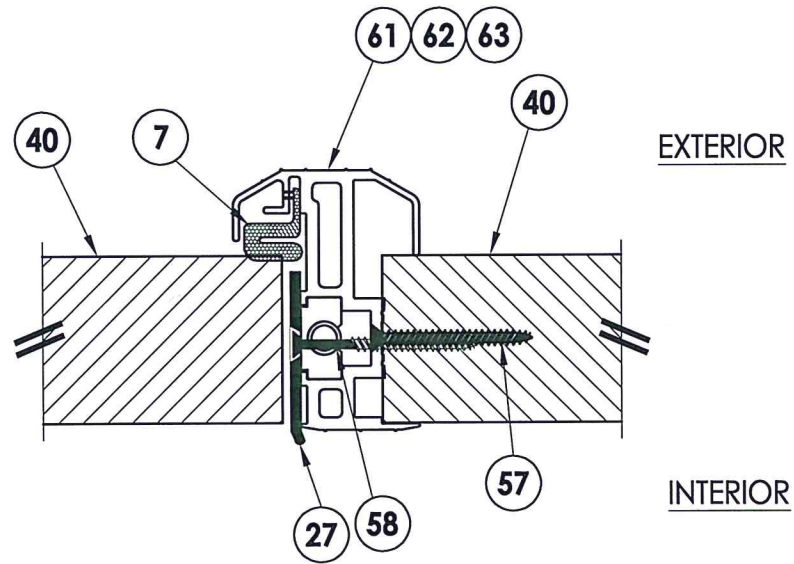
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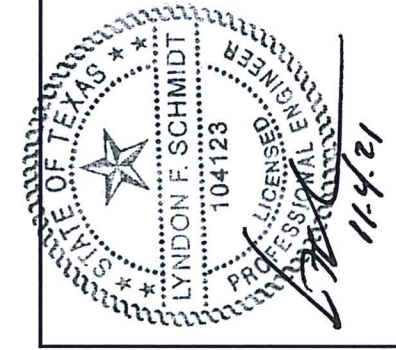
1
5 HORIZONTAL CROSS SECTION



2
5 HORIZONTAL CROSS SECTION



3
5 HORIZONTAL CROSS SECTION



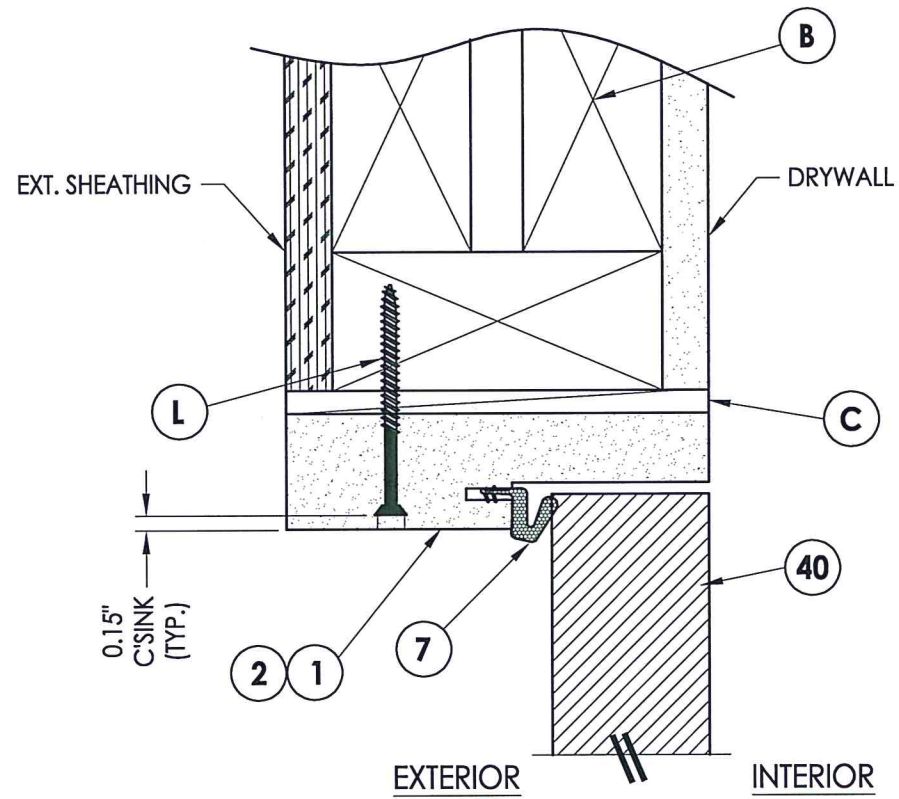
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

R.W. 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

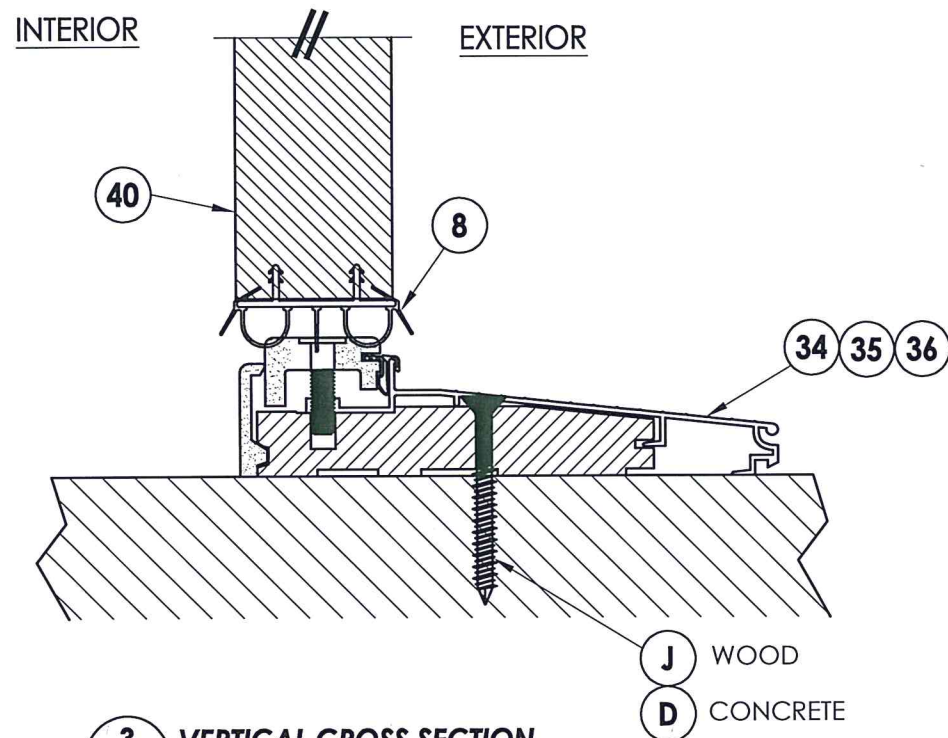
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
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

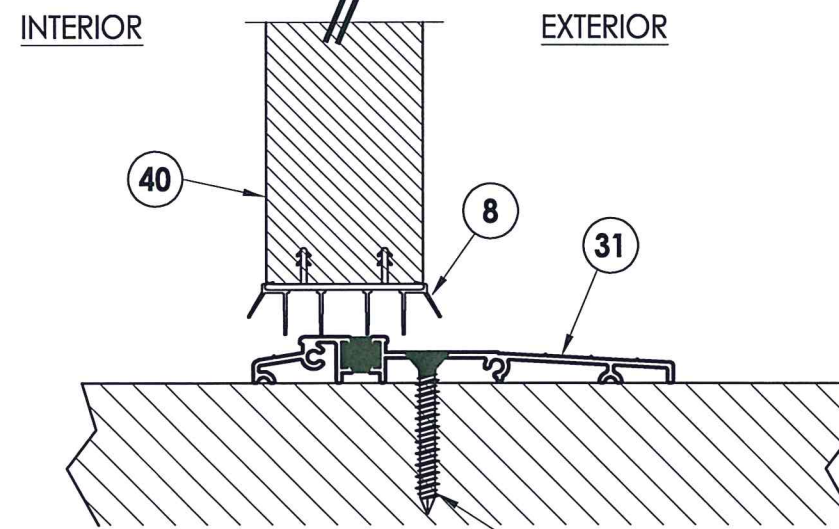
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CHK. BY: LFS
DRAWING NO.: TX-4372
SHEET 5 OF 9



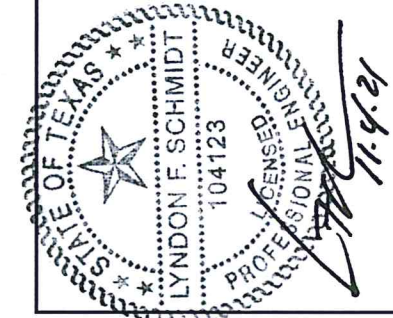
1
6 VERTICAL CROSS SECTION



3
6 VERTICAL CROSS SECTION
Inswing configuration



4
6 VERTICAL CROSS SECTION
Inswing configuration



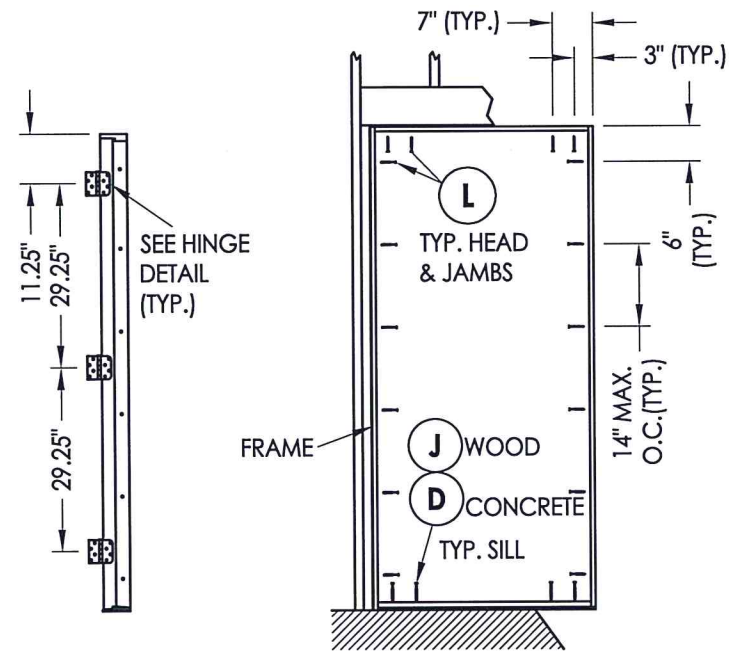
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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:	FIBERGLASS DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

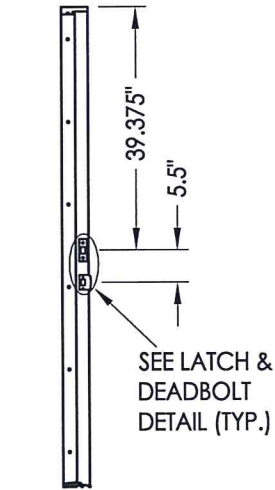
NO.	DATE	REVISIONS	BY
3	10/26/21	UPDATE TO 2018 IRC/IRC	LFS
2	5/31/18	ADD FLAT FRAME LITE PROFILE	LFS
1	12/14/15	ADD H.S. GLAZING OPTION	JK

DATE: 6/13/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4372
SHEET 6 OF 9

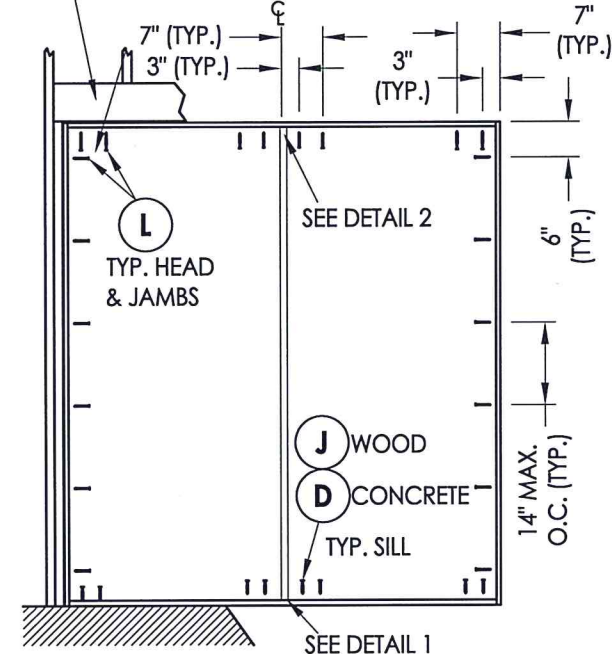


HINGE JAMB

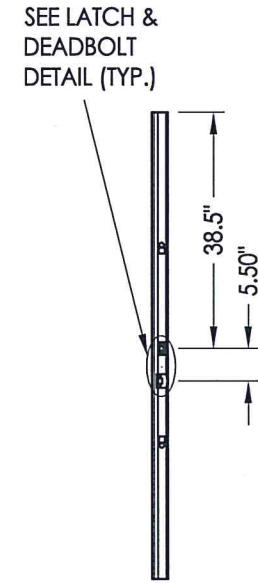
2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED (TYP).



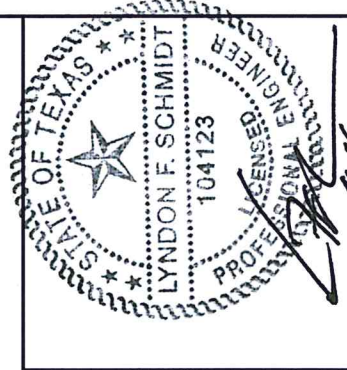
STRIKE JAMB



FRAME ANCHORING XX



ASTRAGAL STRIKE



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: FRAME ANCHORING

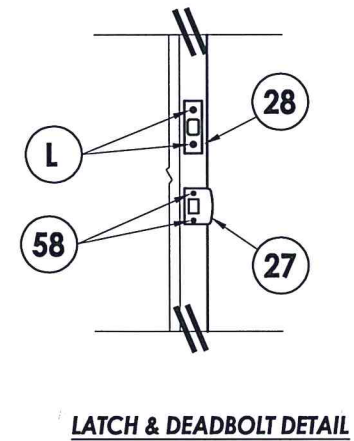
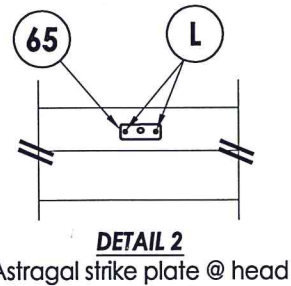
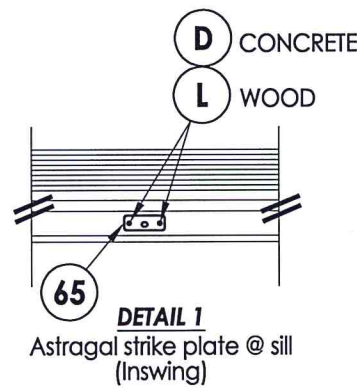
NO.	DATE	REVISIONS
3	10/26/21	UPDATE TO 2018 IBC/IRC
2	5/31/18	ADD FLAT FRAME LITE PROFILE
1	12/14/15	ADD H.S. GLAZING OPTION

DATE: 6/13/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4372
SHEET 7 OF 9

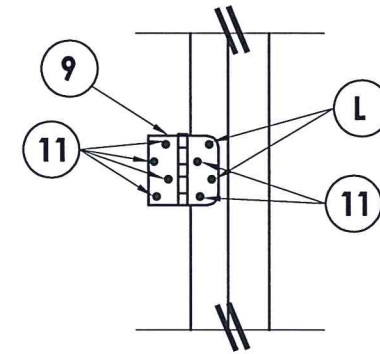
CONCRETE ANCHOR NOTES:

- 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:

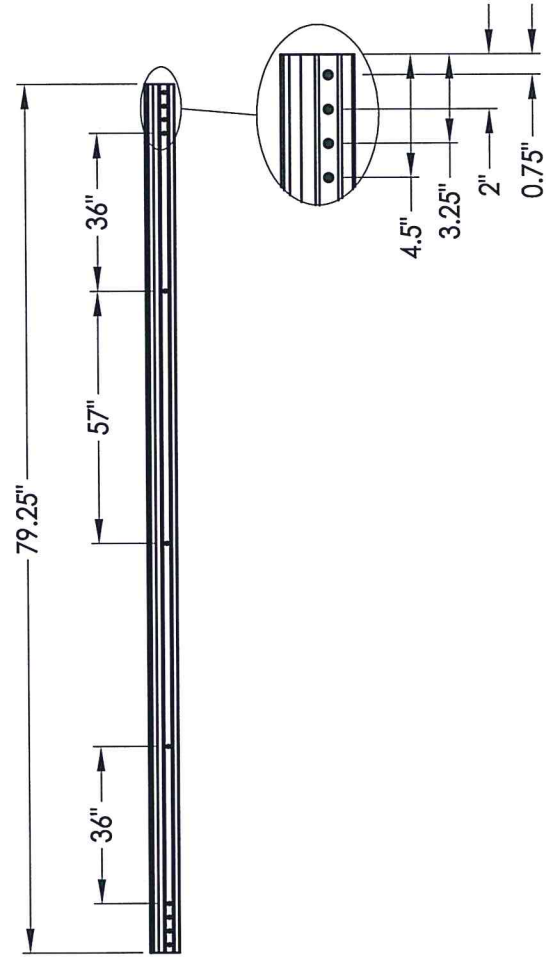
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	1-1/2"	4"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	3"



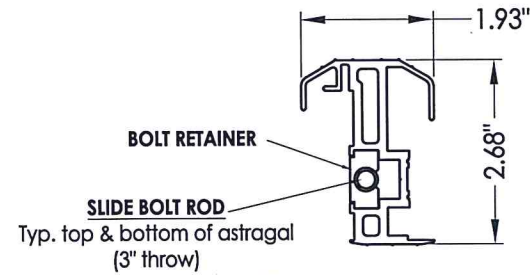
LATCH & DEADBOLT DETAIL



HINGE DETAIL

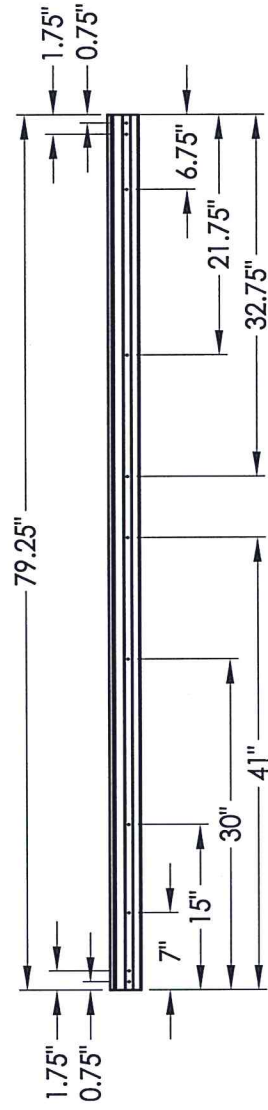


ASTRAGAL SCREW LOCATIONS

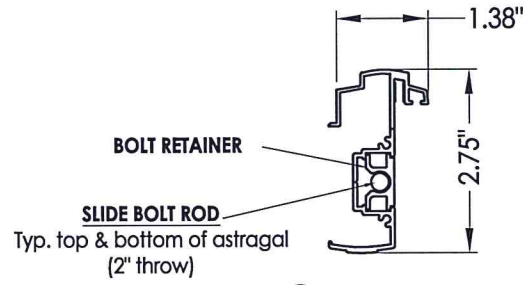


61 ALUMINUM ASTRAGAL
Therma-Tru

6'8 ALUMINUM ASTRAGAL ASSEMBLY
Therma-Tru

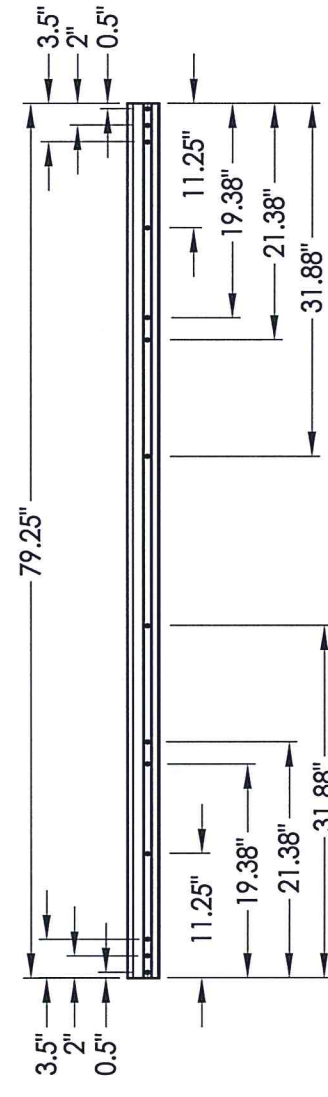


ASTRAGAL SCREW LOCATIONS

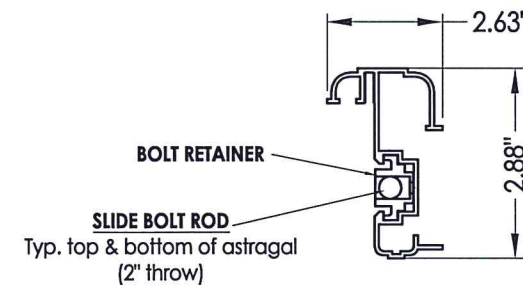


62 ASTRAGAL
Columbia

6'8 ALUMINUM ASTRAGAL ASSEMBLY
Columbia



ASTRAGAL SCREW LOCATIONS



63 ASTRAGAL
DLP

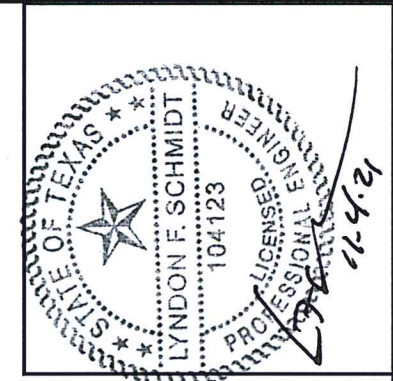
6'8 ALUMINUM ASTRAGAL ASSEMBLY
DLP



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: ASTRAGAL DETAILS	
NO.	DATE	BY	REVISIONS
3	10/26/21	LFS	UPDATE TO 2018 IBC/IRC
2	5/31/18	JK	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-4372		SHEET 8 OF 9	

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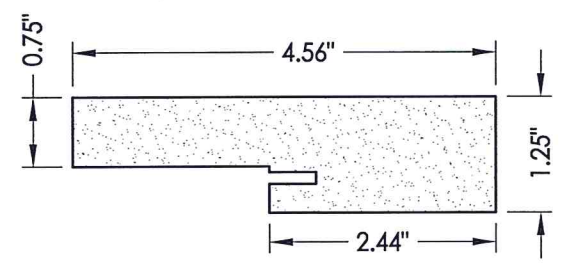
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMB.)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
1	HEAD & JAMB	COMP
2	HEAD & JAMB	WOOD
7	WEATHERSTRIP (THERMA-TRU)	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	4" x 4" HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
31	ADA THRESHOLD	ALUM
34	INSWING THRESHOLD	ALUM/COMP
35	INSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
57	#8 X 2" PFH 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



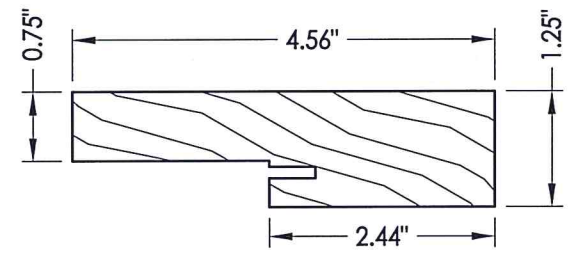
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

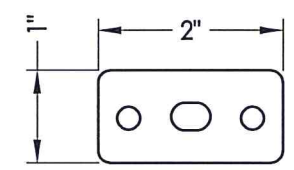
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



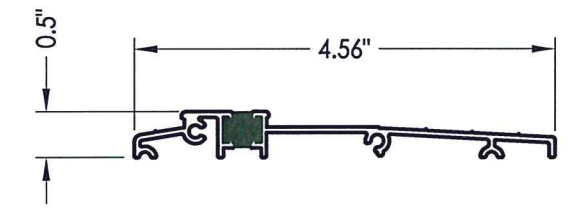
1 HEAD & JAMB
Composite



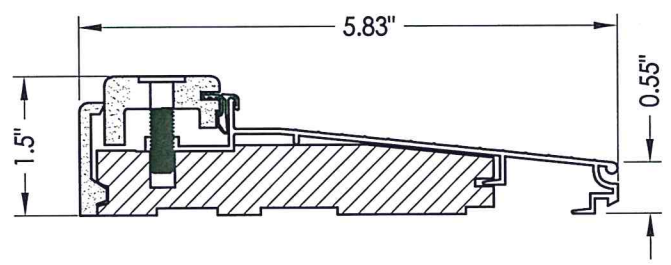
2 HEAD & JAMB
Finger joint pine



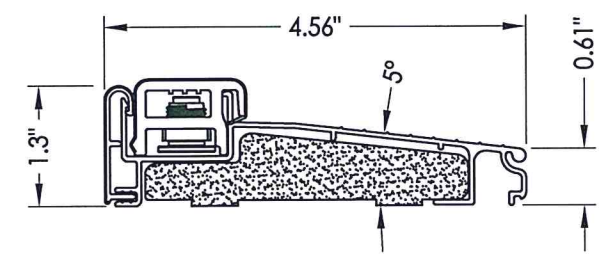
65 HEAD & SILL STRIKE PLATE



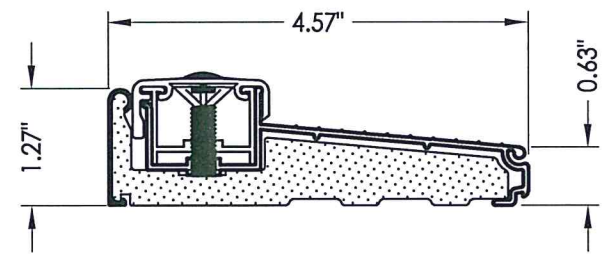
31 ADA THRESHOLD
Columbia



34 INSWING THRESHOLD
Therma-Tru



35 INSWING THRESHOLD
Endura ZAIL 4565
with Composite Substrate



36 INSWING THRESHOLD
Columbia 900 Series

PRODUCT:	FIBERGLASS DOOR		
PART OR ASSEMBLY:	BILL OF MATERIALS & COMPONENTS		
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-4372
SHEET 9 OF 9