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1350 I.H. 35 North
San Marcos, TX 78677

FIBERGLASS ENTRY DOOR

INSWING / OUTSWING

"IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

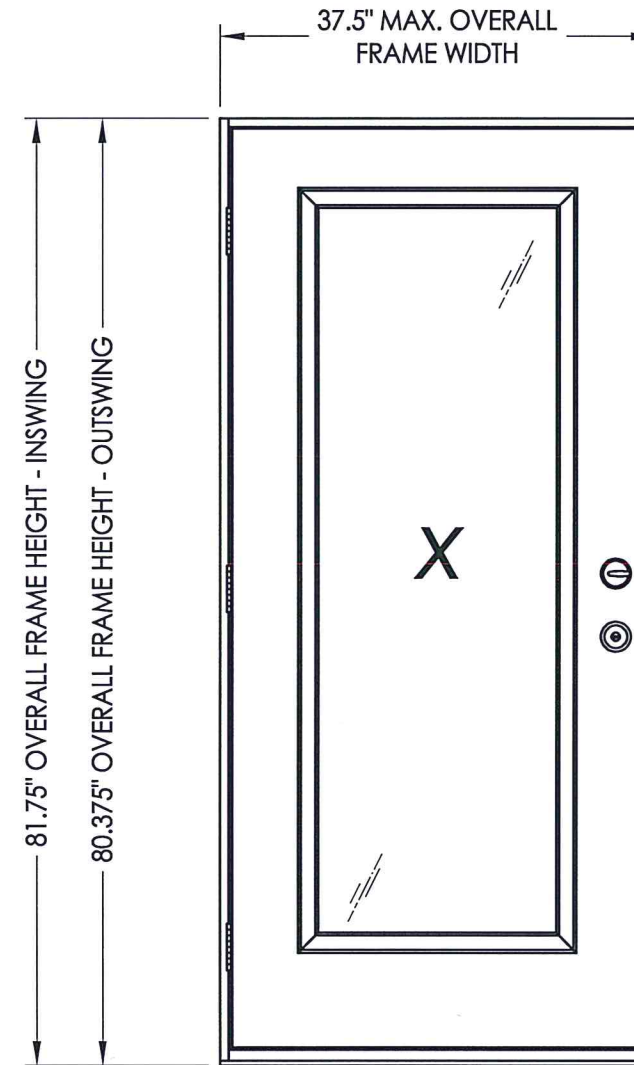
TDI DR-557

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 elevation, design pressures, & general notes
2	Door panel details
3	Lite frame & glazing details
4	Horizontal cross sections
5	Vertical cross sections
6	Frame anchoring
7	Bill of materials & components



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
X	37.5" x 81.75"	+50.0	-50.0



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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
4	10/21/21	UPDATE TO 2018 IRC/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

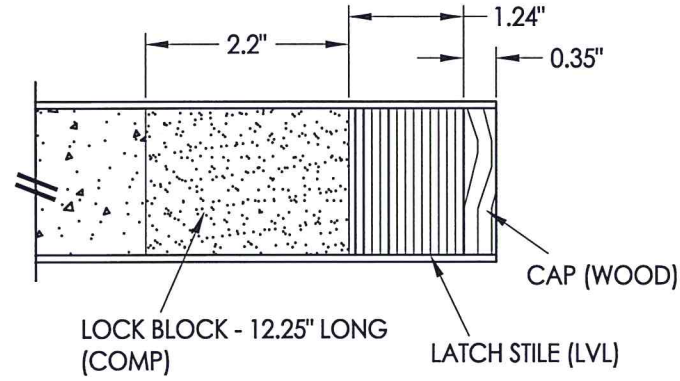
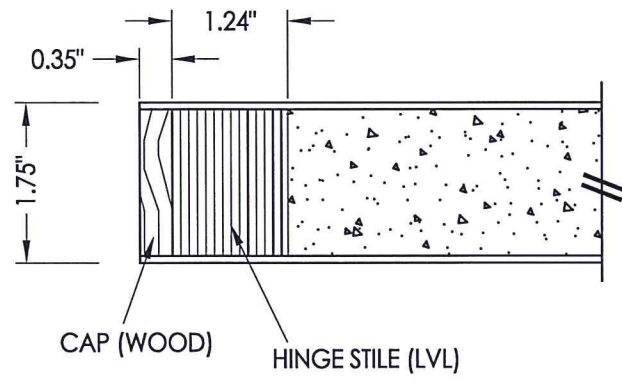
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DWG. BY: JK

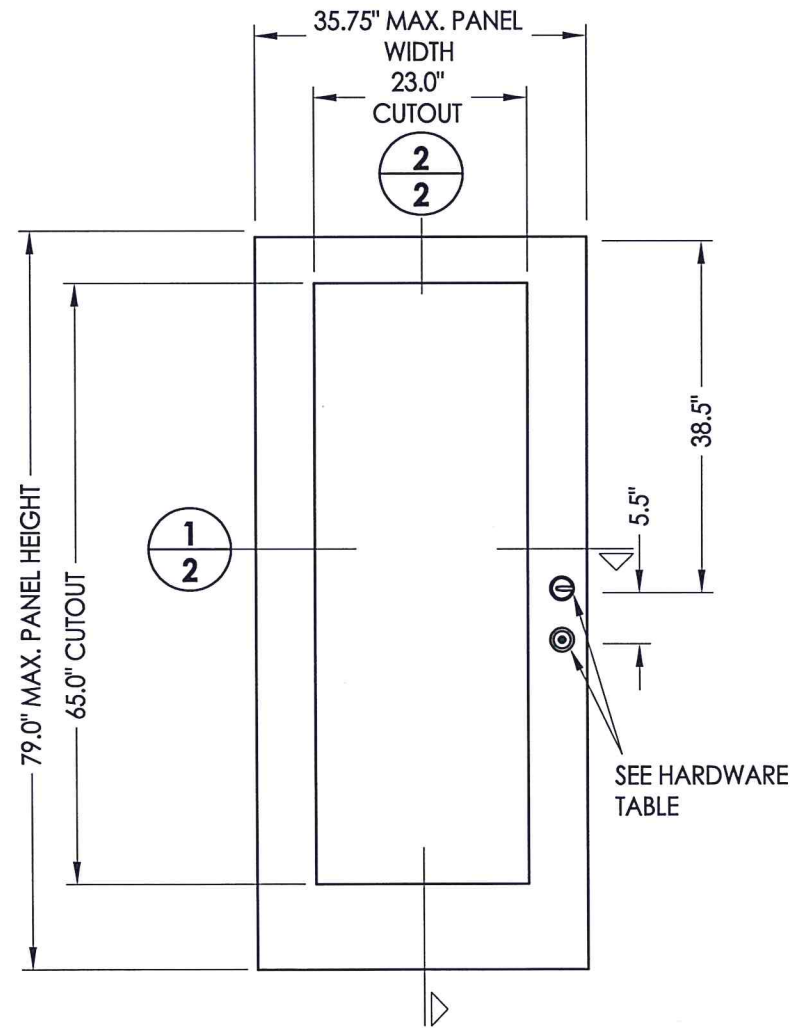
CHK. BY: LFS

DRAWING NO.: TX-4168

SHEET 1 OF 7



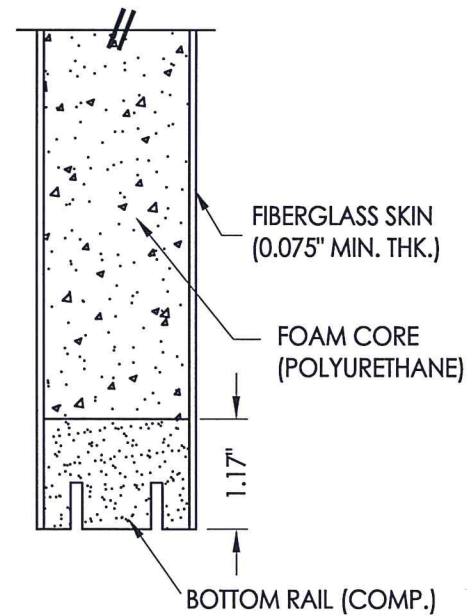
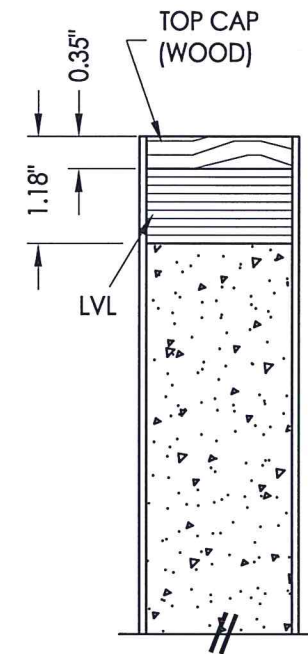
1
2 HORIZONTAL CROSS SECTION



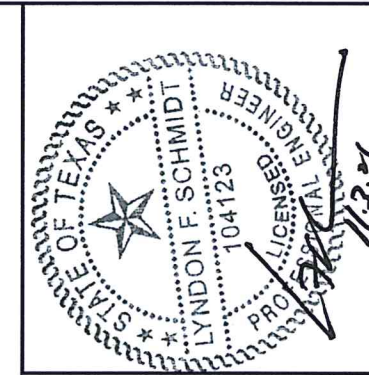
40 DOOR PANEL
Masonite

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



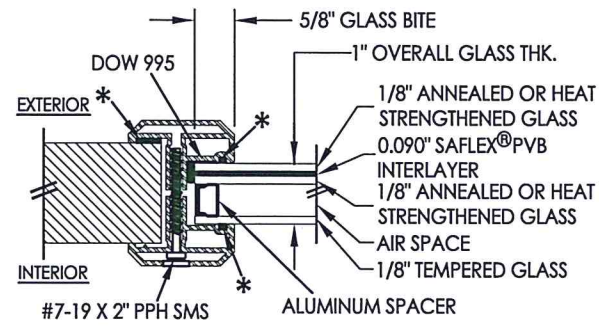
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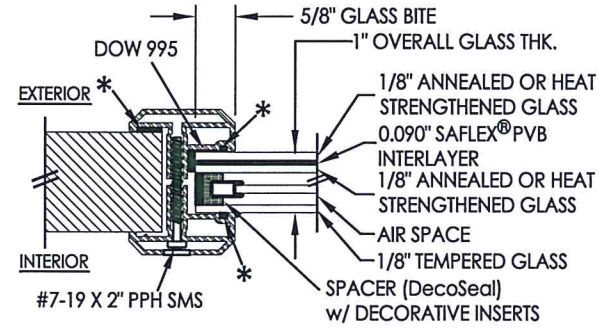
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: DOOR PANEL DETAILS

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

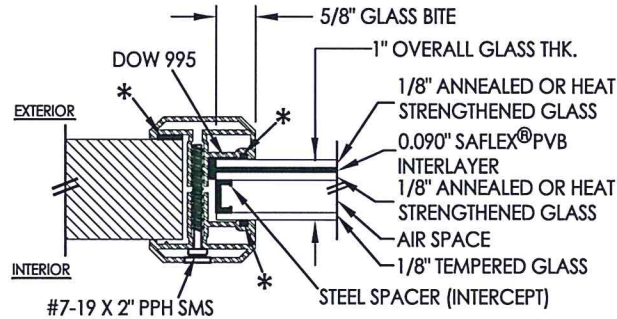
DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4168
SHEET 2 OF 7



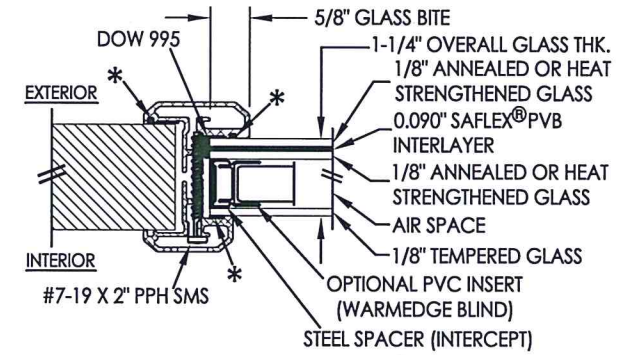
G1 GLAZING DETAIL
Flat Frame Profile



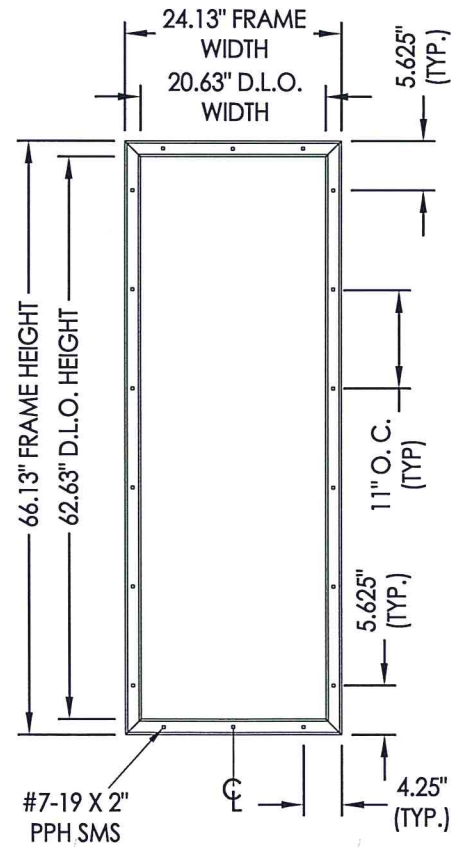
G3 GLAZING DETAIL
Flat Frame Profile



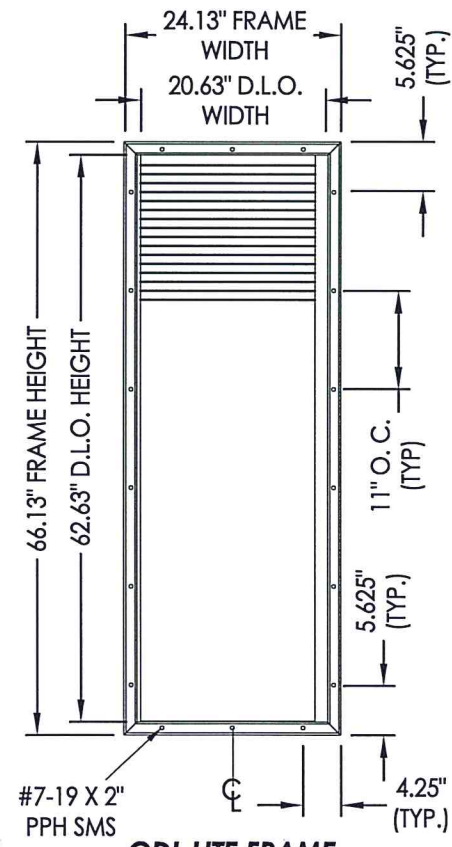
G2 GLAZING DETAIL
Flat Frame Profile



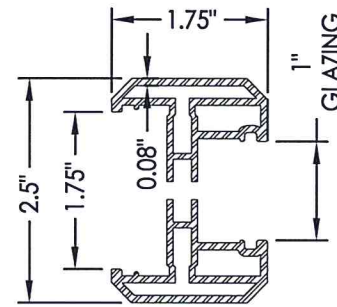
G4 GLAZING DETAIL
Flat Frame Profile
w/ Blinds Between Glass



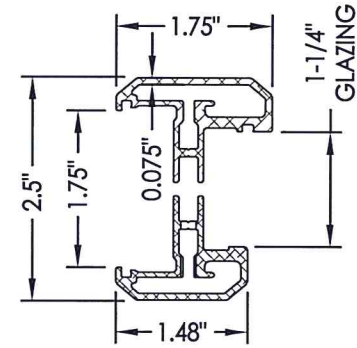
ODL LITE FRAME
"Flat Frame" Aluminum



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

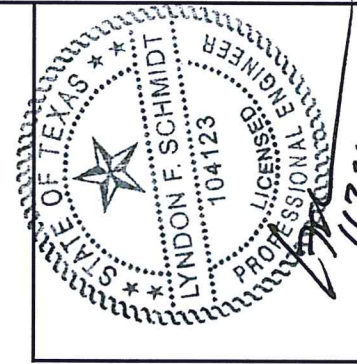


ODL LITE FLAT FRAME
1" GLAZING



ODL LITE FLAT FRAME
1-1/4" GLAZING

* NON-STRUCTURAL BACKBEDDING (READI-SEAL)



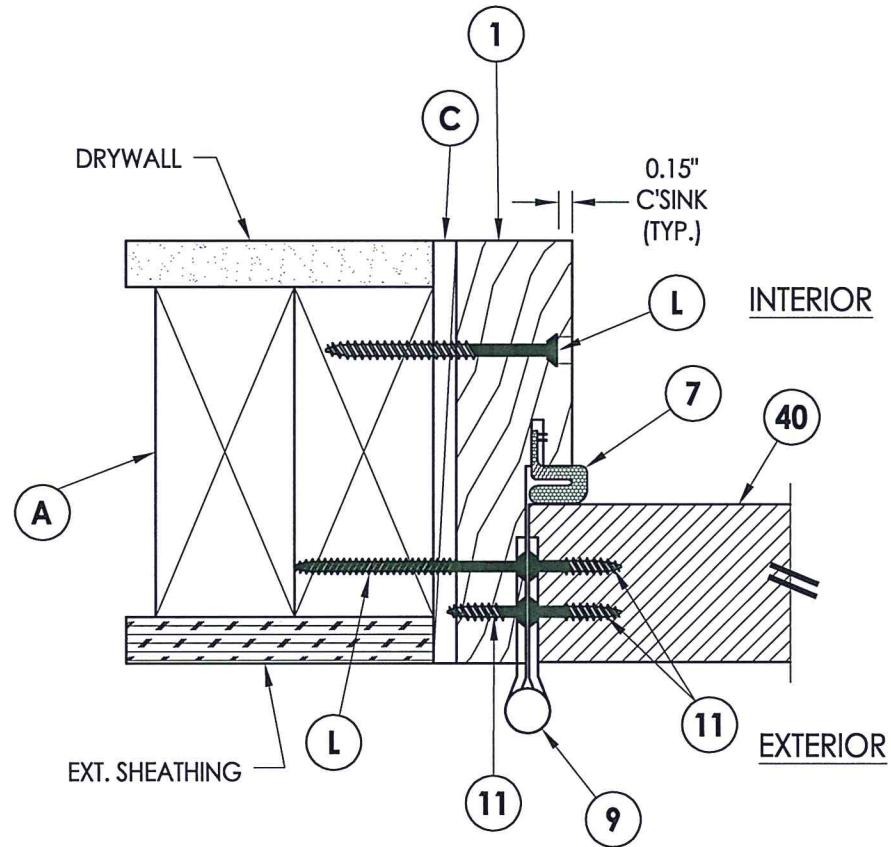
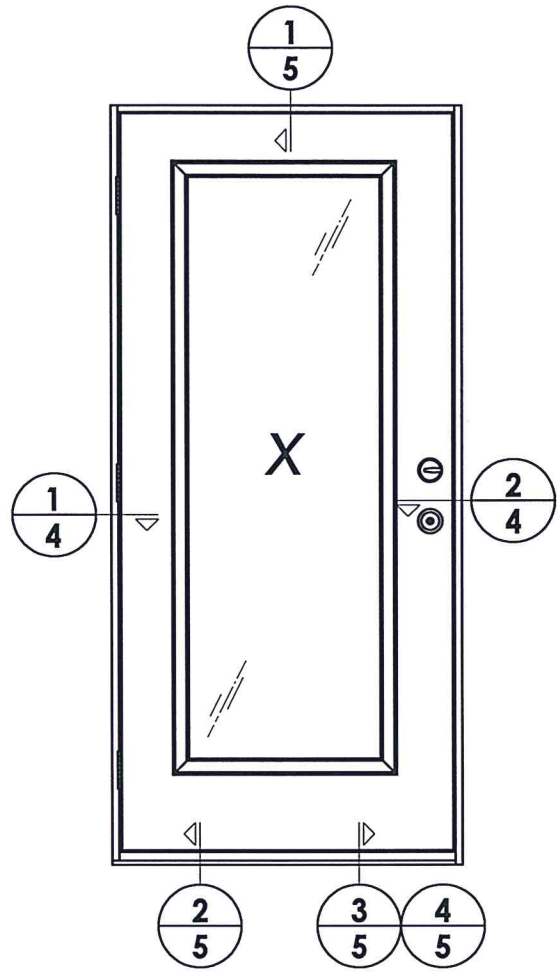
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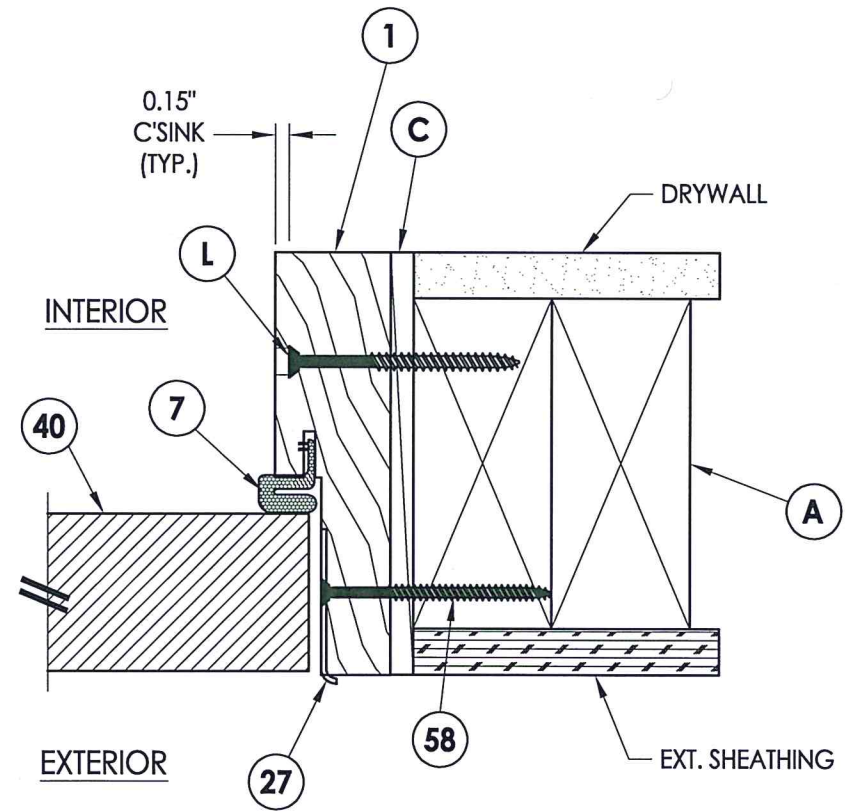
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: LITE FRAME & GLAZING DETAILS

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
		BY
		LFS
		JK
		LFS

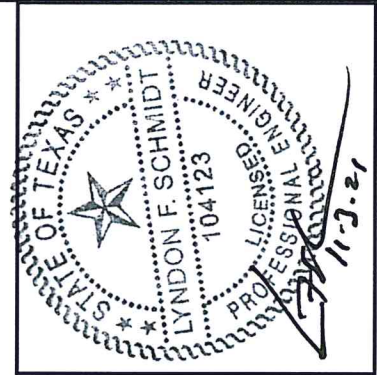
DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4168
SHEET 3 OF 7



1
4 **HORIZONTAL CROSS SECTION**
Outswing shown - inswing also approved



2
4 **HORIZONTAL CROSS SECTION**
Outswing shown - inswing also approved

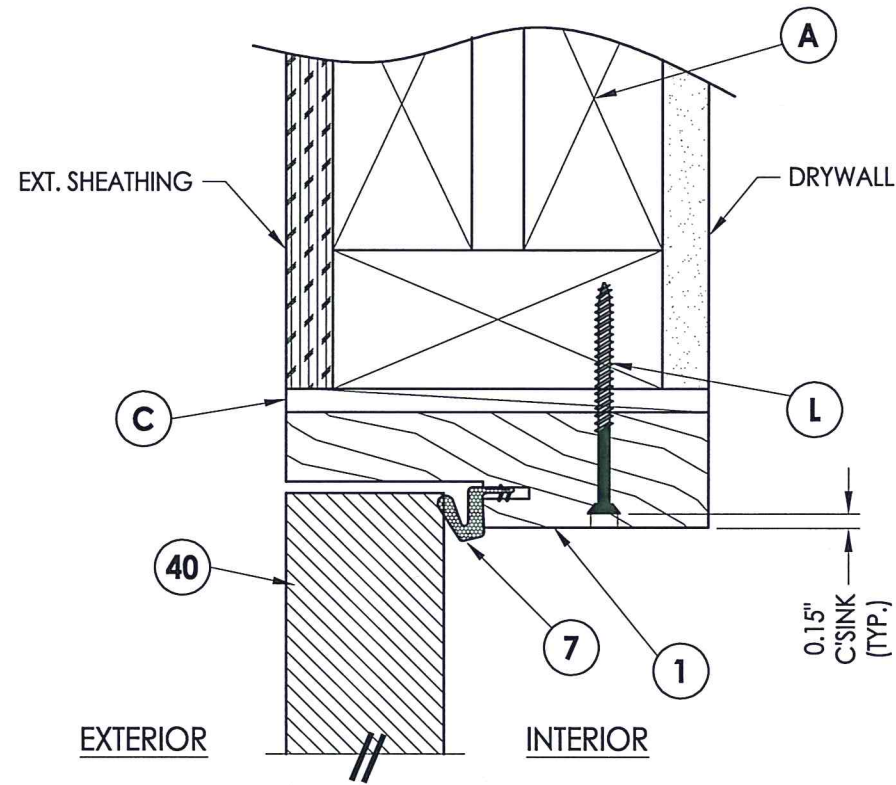


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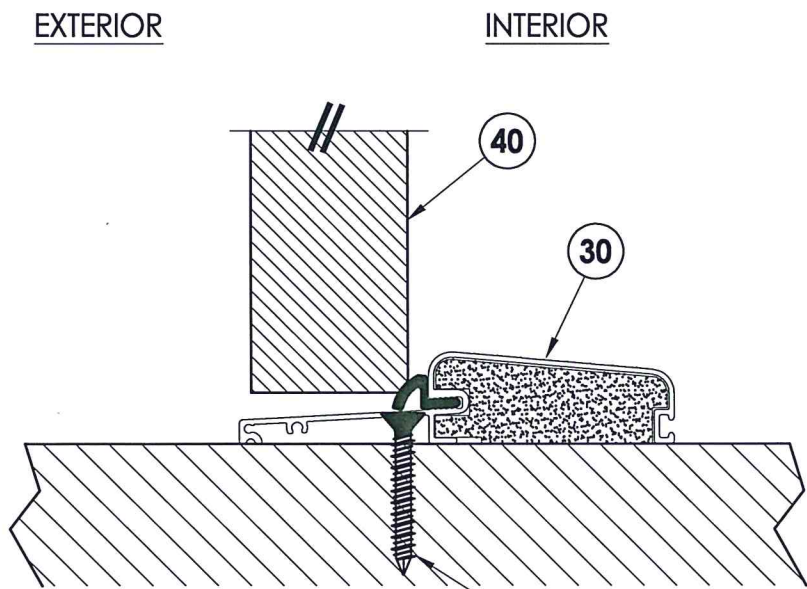
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
4	10/21/21	LFS	UPDATE TO 2018 IBC/IRC
3	5/16/18	LFS	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-4168			
SHEET 4 OF 7			

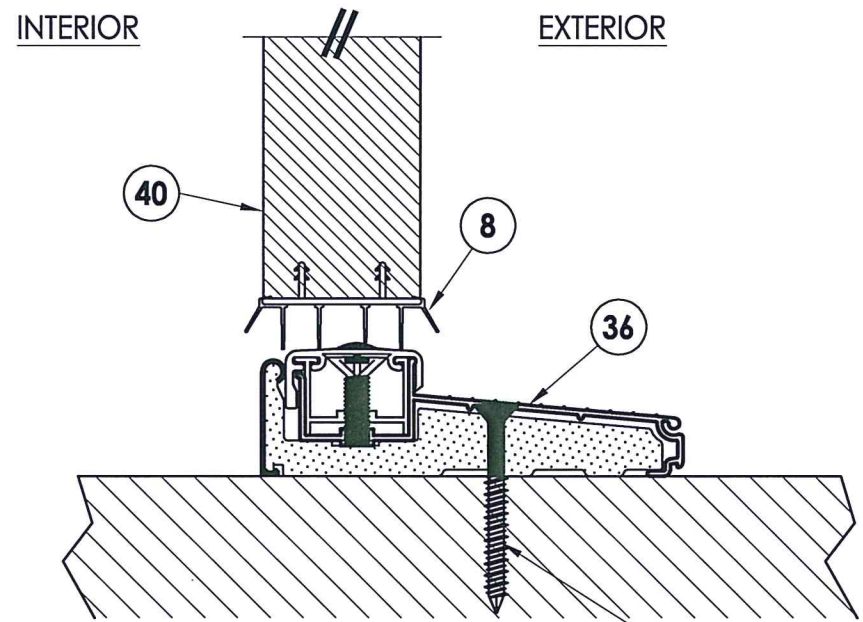
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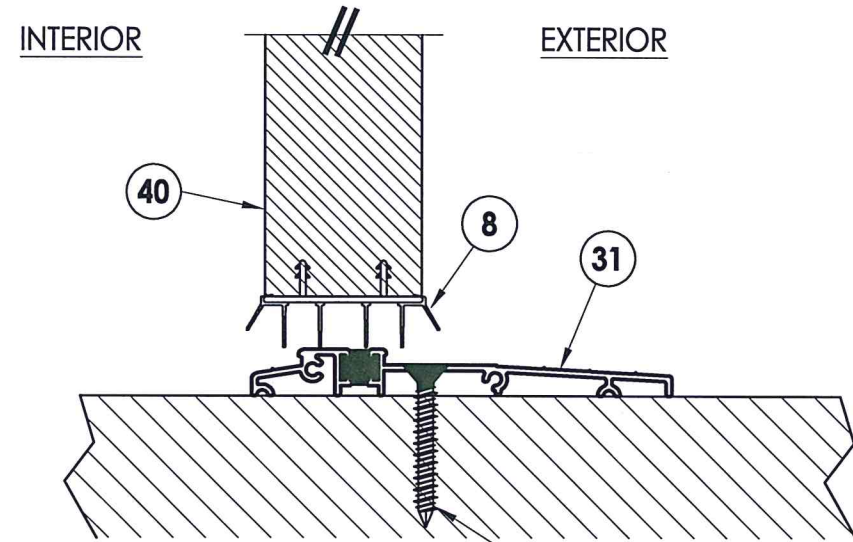
1 VERTICAL CROSS SECTION
5 Outswing shown - inswing also approved



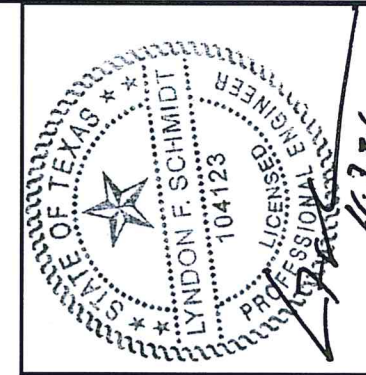
2 VERTICAL CROSS SECTION
5 Outswing configuration
J WOOD
D CONCRETE



3 VERTICAL CROSS SECTION
5 Inswing configuration
J WOOD
D CONCRETE



4 VERTICAL CROSS SECTION
5 Inswing configuration
J WOOD
D CONCRETE



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 TEXAS P.E. #104123

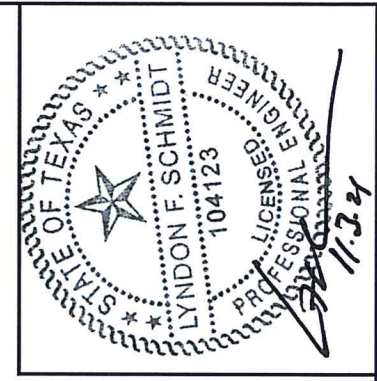
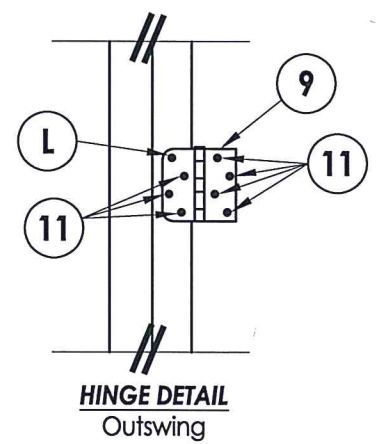
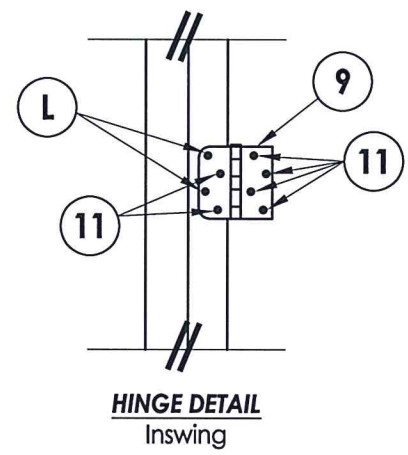
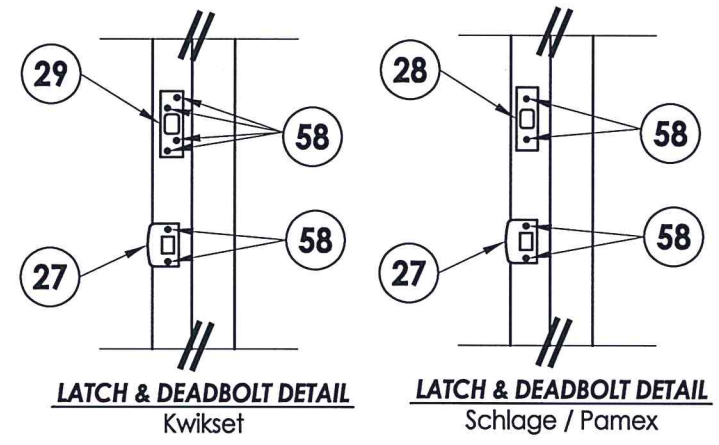
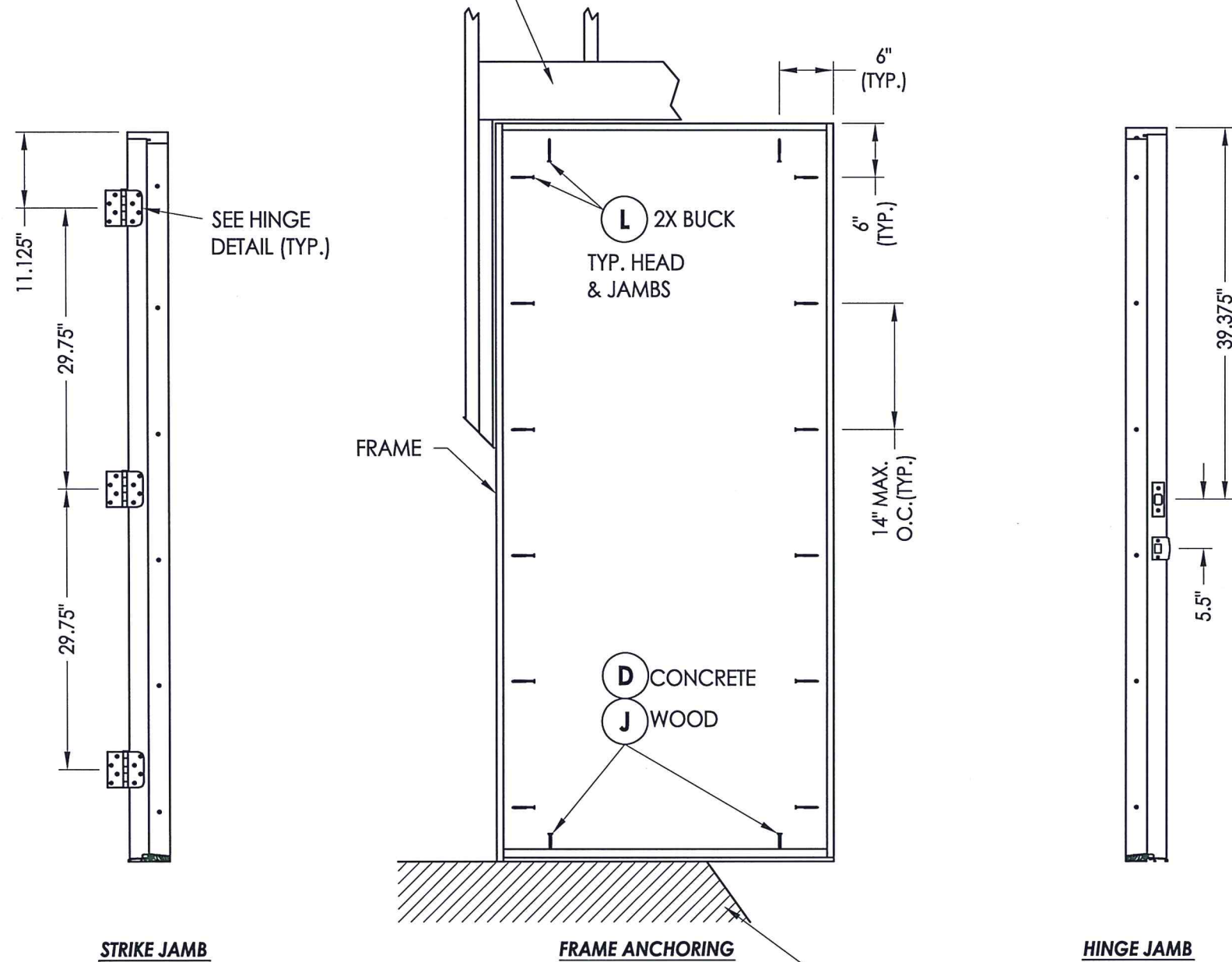
RW BUILDING CONSULTANTS, INC.
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 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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
		NO. DATE

DATE: 06/20/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4168
 SHEET 5 OF 7

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



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TEXAS BOARD OF PROFESSIONAL ENGINEERS
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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
		BY

DATE: 06/20/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4168

SHEET 6 OF 7

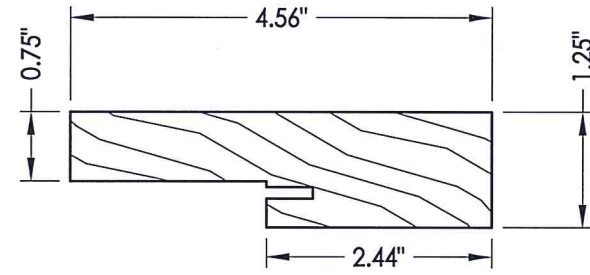
CONCRETE ANCHOR NOTES:

- 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.

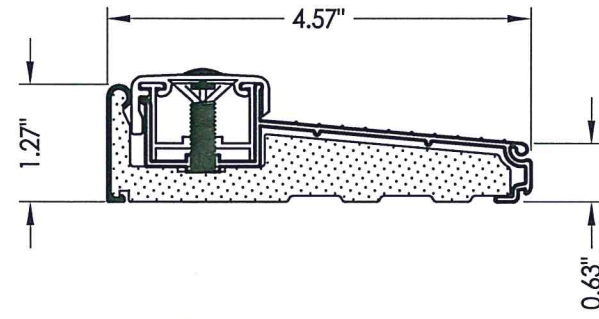
Concrete anchor table:

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"

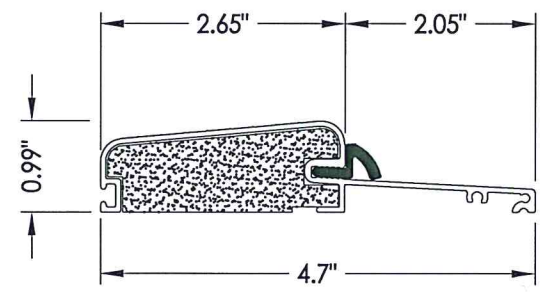
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL
1	HEAD & JAMB - FINGER-JOINT PINE	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" 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
31	ADA THRESHOLD	ALUM
36	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
58	#8 X 2-1/2" PFH WOOD SCREW	STEEL



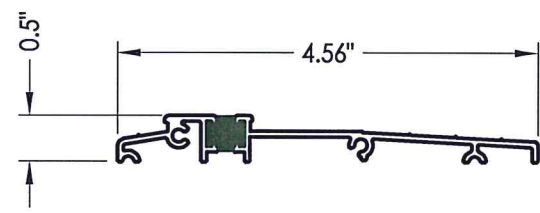
1 HEAD & JAMB
Finger joint pine



36 INSWING THRESHOLD
Columbia 900 Series



30 OUTSWING THRESHOLD
Columbia 775 Series
w/ Composite Substrate



31 ADA THRESHOLD
Columbia



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

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

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4168
SHEET 7 OF 7