

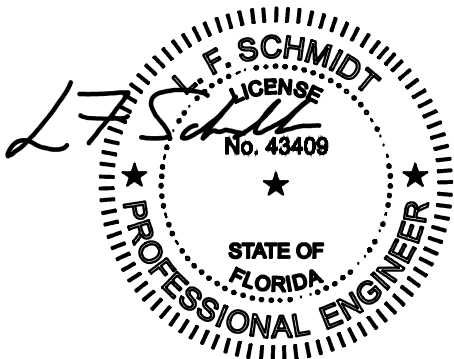
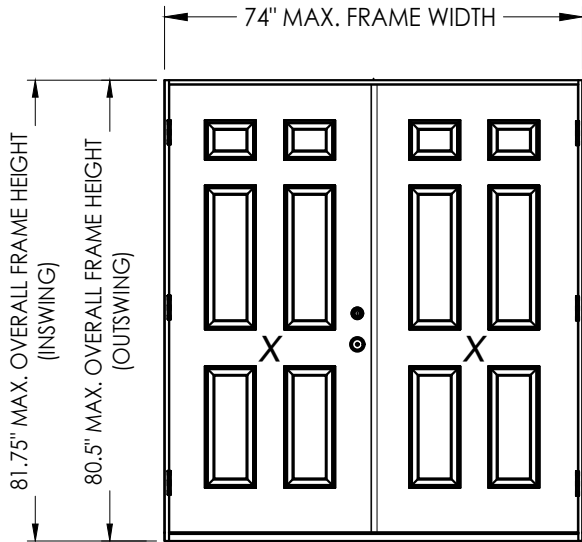
OPAQUE FIBERGLASS DOOR

DOUBLE

w/ or w/out SIDELITE(S)

INSWING/OUTSWING

"IMPACT"



Digitally signed by Lyndon F Schmidt
Date: 2026.07.01 17:09:59 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and excludes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

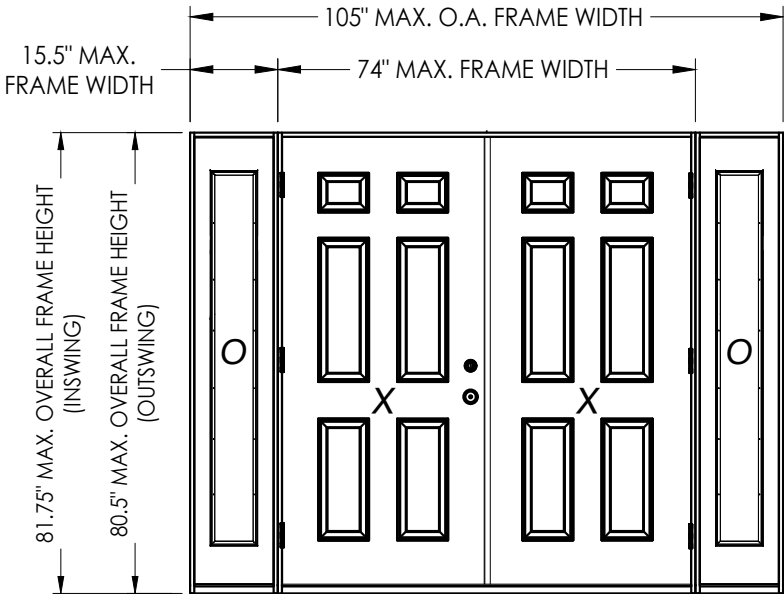


TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	
1	Typical Elevations, Design Pressures & General Notes	7	Horizontal & Vertical Cross Sections (1X Buck)
2	Door Panel Details	8	Horizontal & Vertical Cross Sections (Direct to Masonry)
3	Sidelite Panel Details	9	Vertical Cross Sections (Thresholds)
4	Elevations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

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
XX	74" x 81.75"	+50.0	-50.0
OXXO	105" x 81.75"	+50.0	-50.0

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

TRINITY

FIBERGLASS PATIO DOOR

"Impact"

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

2

7/01/26

UPDATE TO 9TH ED. (2026) FBC

LFS

1

7/31/23

UPDATE TO 8TH ED. (2023) FBC

LFS

NO.

DATE

BY

DATE:

6/22/23

SCALE:

N.T.S.

DWG. BY:

RW

CHK. BY:

LFS

DRAWING NO.:

FL-37185.4

SHEET

1

OF

12

RW

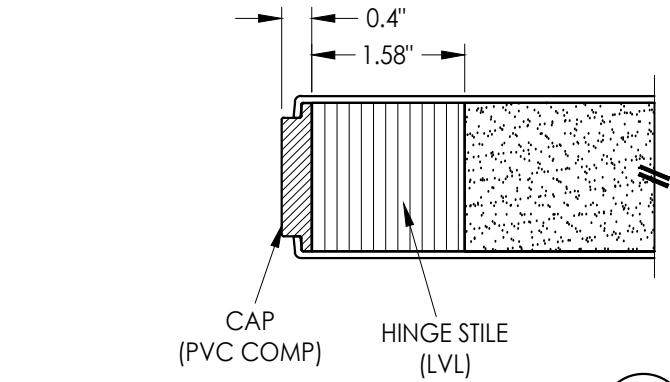
BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595

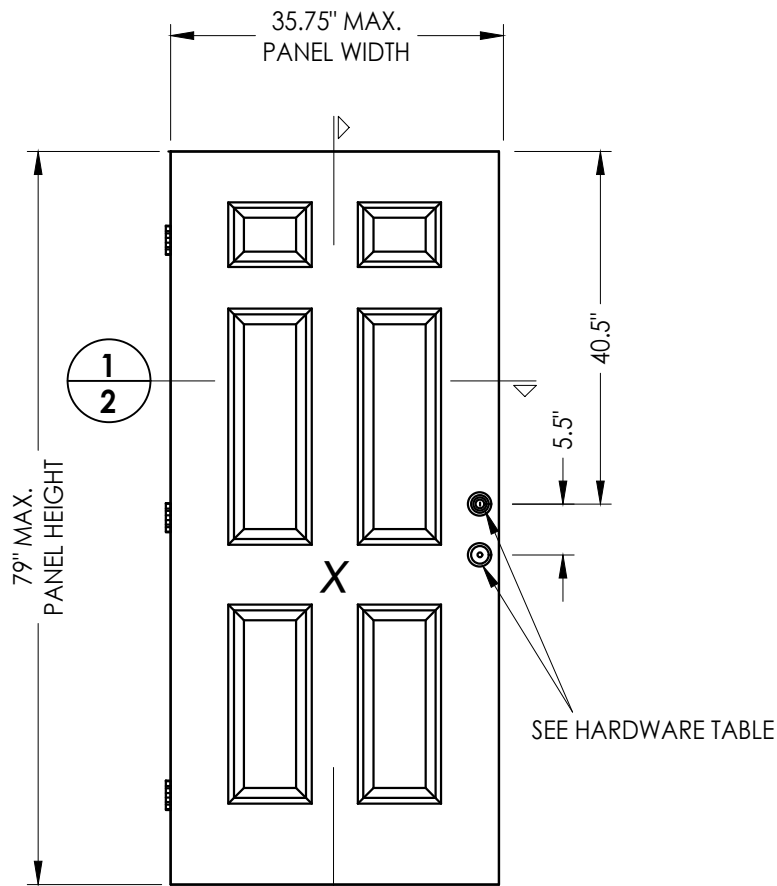
Phone No.: 813.659.9197

FBPE Registry No. 9813

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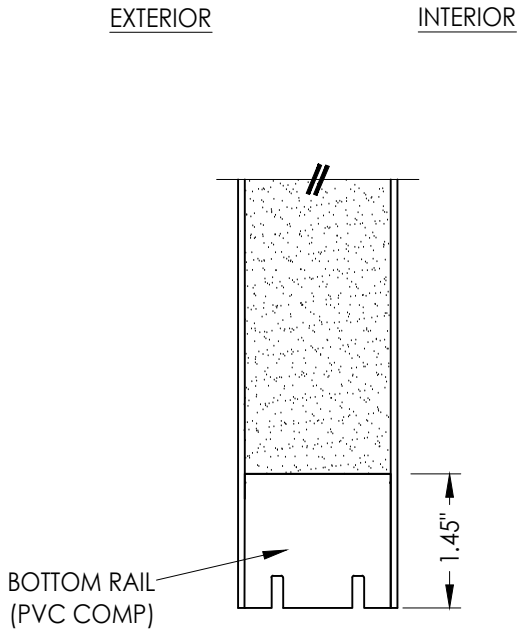
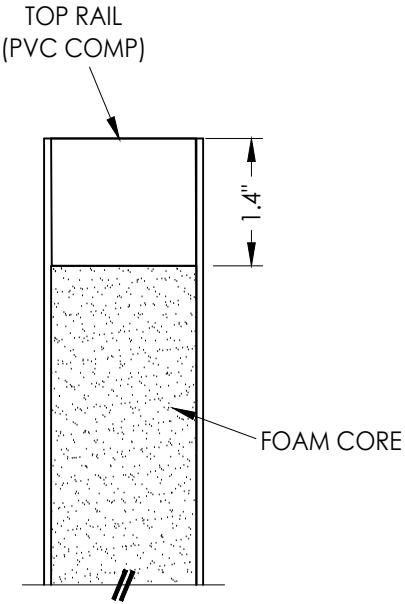
1
2 **HORIZONTAL CROSS SECTION**



2
2 **FIBERGLASS DOOR PANEL**

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60N

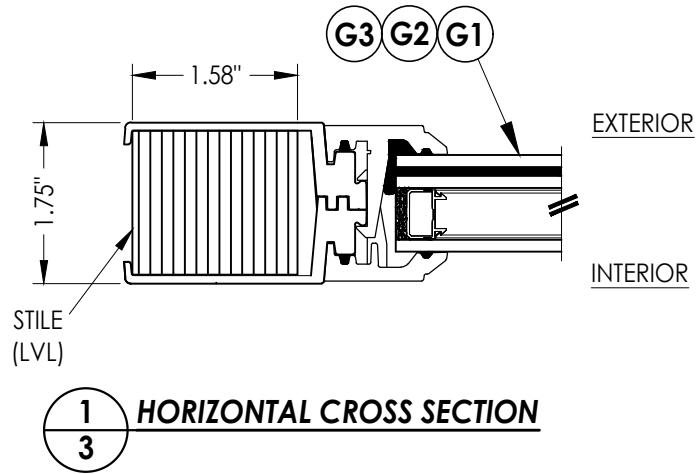
FIBERGLASS SKIN: 0.079" MIN. THK.
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.)



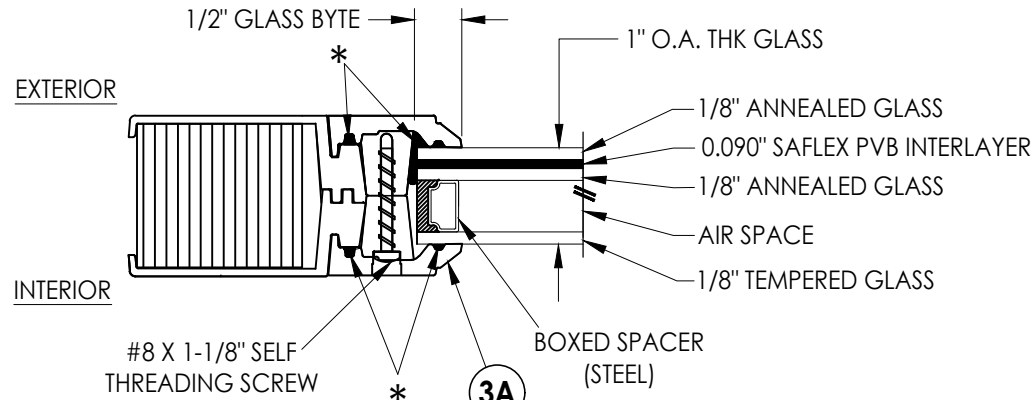
2
2 **VERTICAL CROSS SECTION**

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				RWBUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT:		TRINITY FIBERGLASS PATIO DOOR "Impact"		PART OR ASSEMBLY:		DOOR PANEL DETAILS	
				LFS	FBC	LFS	BY
				2	7/01/26	UPDATE TO 9TH ED. (2026)	
				1	7/31/23	UPDATE TO 8TH ED. (2023)	
				NO.	DATE		
REVISIONS							
DATE: 6/22/23							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-37185.4							
SHEET 2 OF 12							

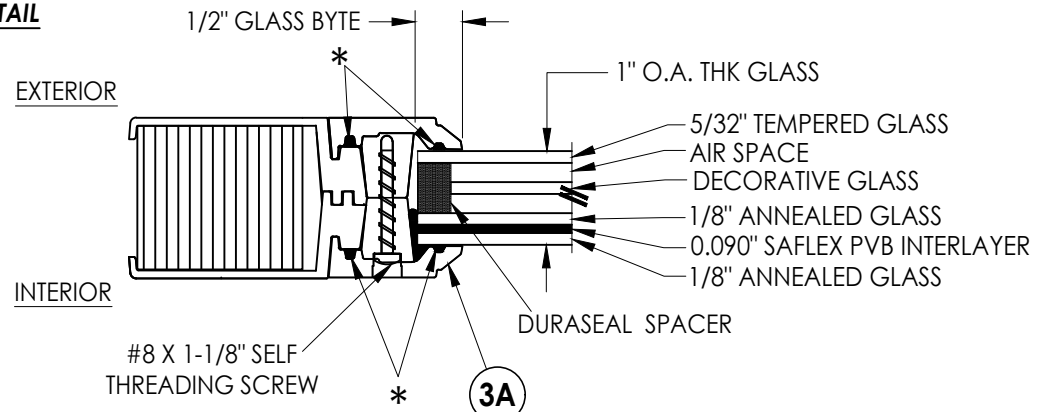
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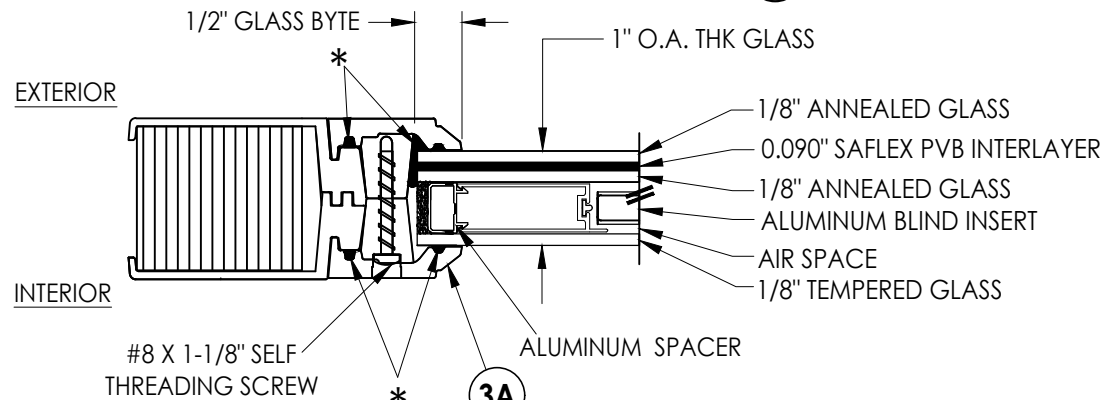
1
3 HORIZONTAL CROSS SECTION



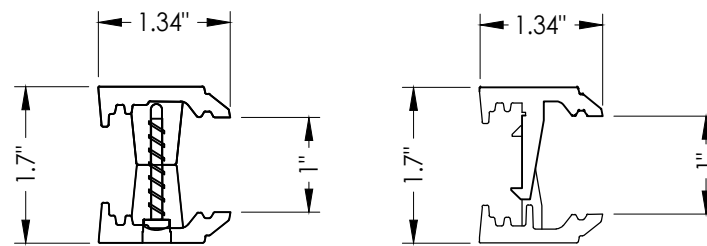
G1 GLAZING DETAIL



G2 GLAZING DETAIL
DECORATIVE GLASS



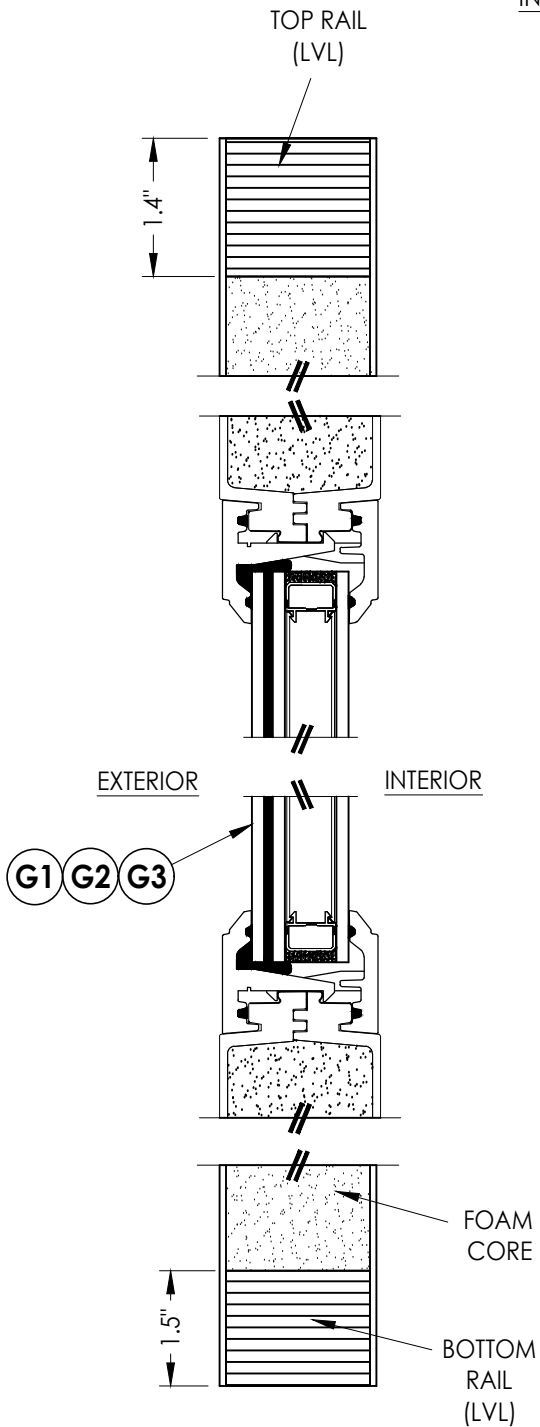
G3 GLAZING DETAIL
BLINDS BETWEEN GLASS



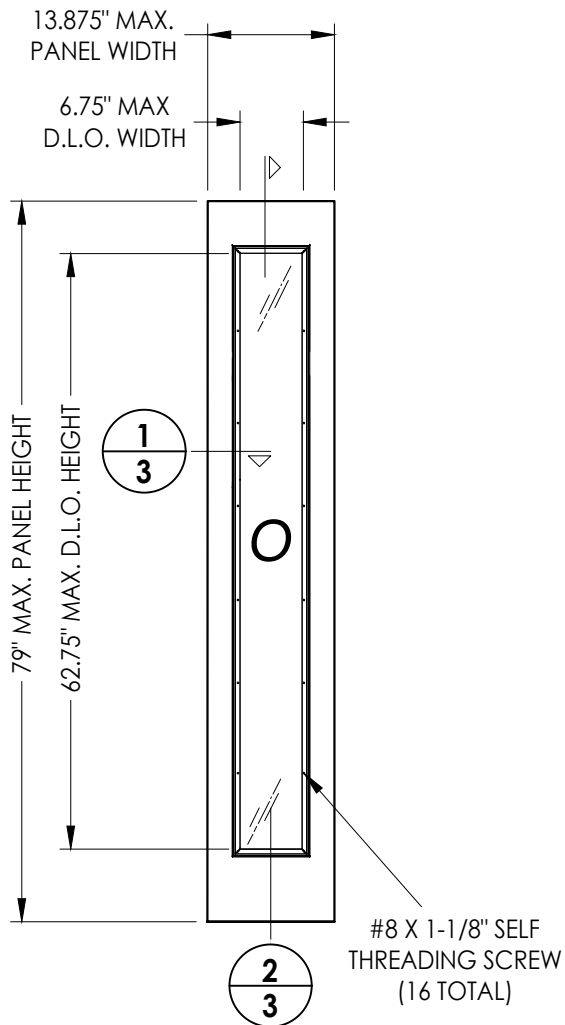
SECTION @ SCREW

SECTION @ HOOK TAB

3A FLUSH GLAZING FRAME
ABS



2
3 VERTICAL CROSS SECTION



50 FIBERGLASS SIDELITE PANEL

FIBERGLASS SKIN: 0.079" MIN. THK. (Fy = 10,000 PSI MIN.)
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.)

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY
FIBERGLASS PATIO DOOR
"Impact"

PART OR ASSEMBLY:
SIDELITE
PANEL DETAILS

NO.	DATE	REVISIONS
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
1	7/31/23	UPDATE TO 8TH ED. (2023) FBC LFS

DATE: 6/22/23

SCALE: N.T.S.

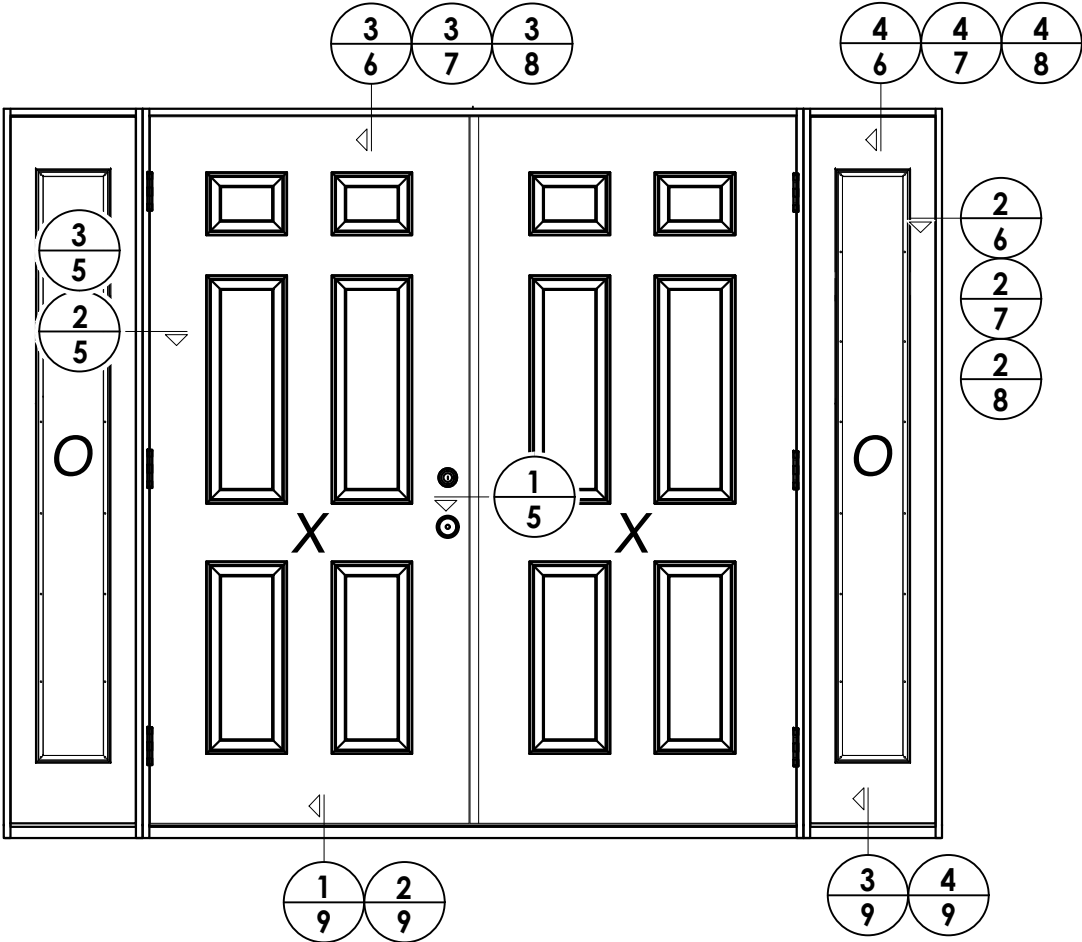
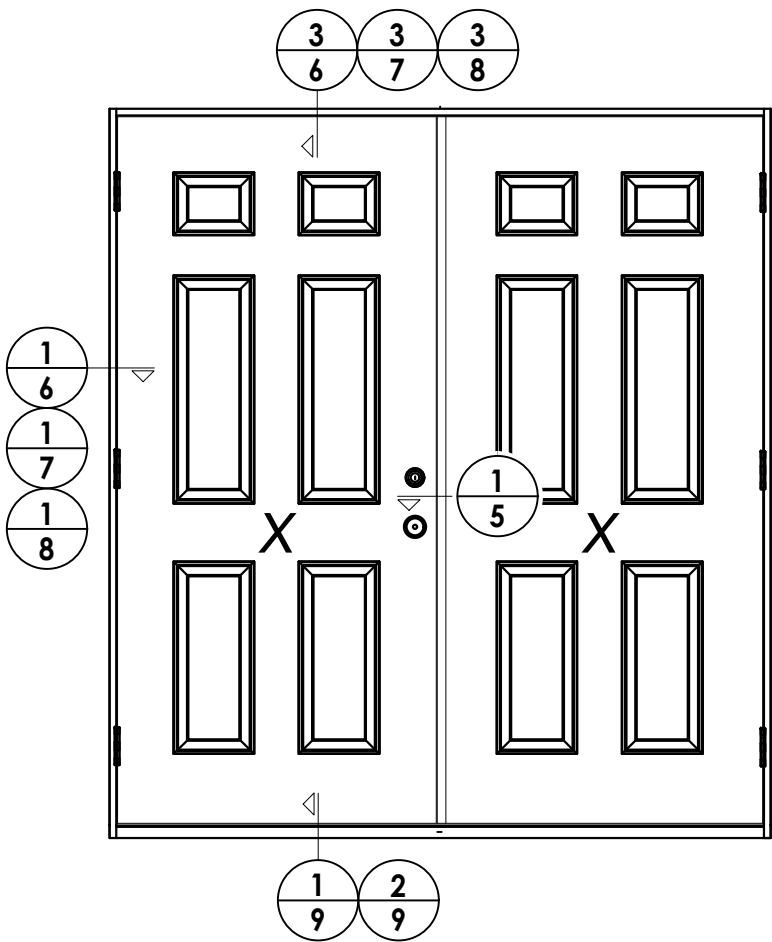
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-37185.4

SHEET 3 OF 12



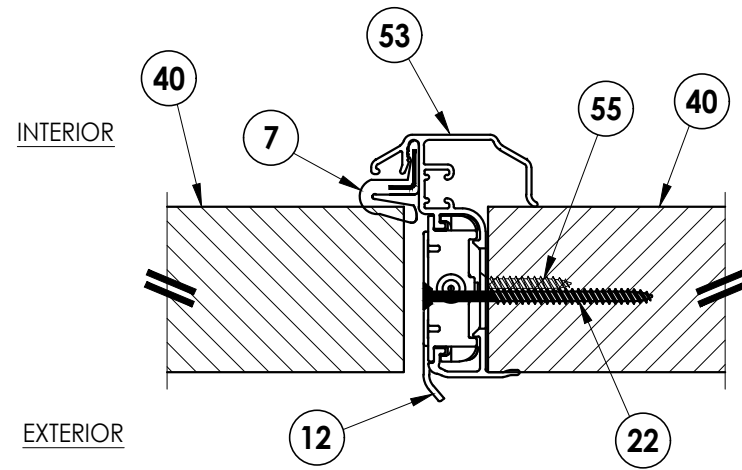
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SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-37185.4
SHEET 4 OF 12

REVISIONS			
NO	DATE	DESCRIPTION	BY
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1	7/31/23	UPDATE TO 8TH ED. (2023) FBC	LFS

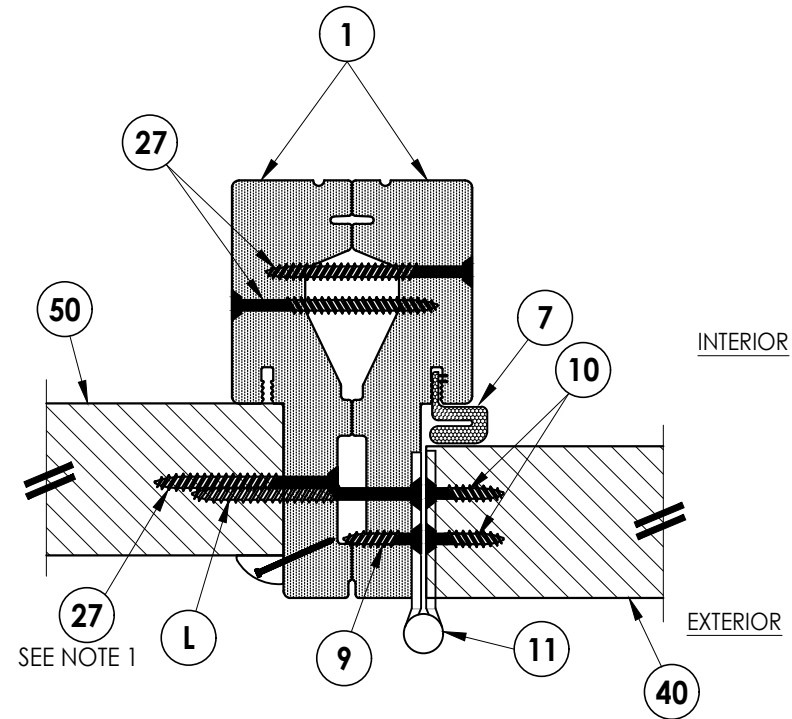
PRODUCT:	TRINITY	PART OR ASSEMBLY:	ELEVATIONS
	FIBERGLASS PATIO DOOR "Impact"		

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

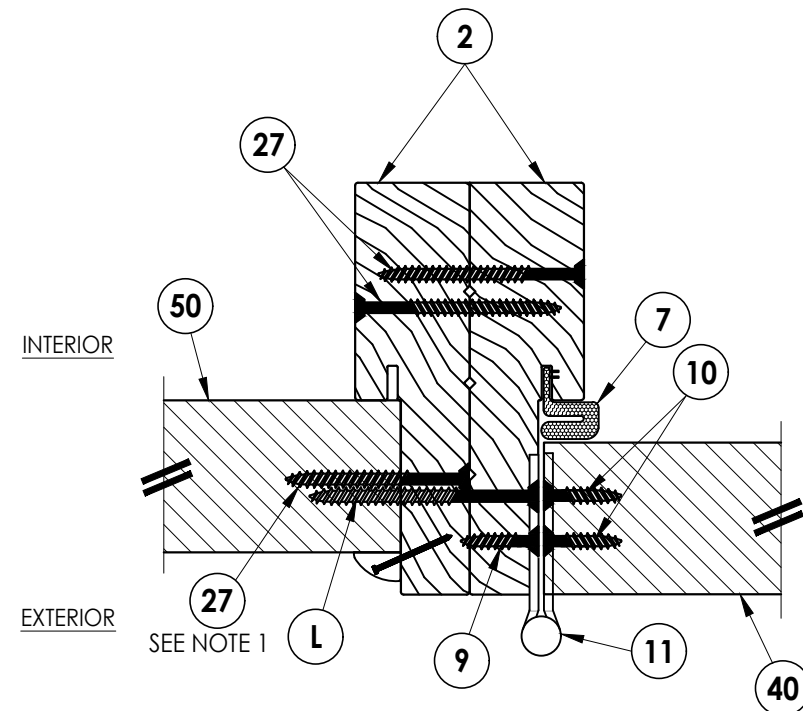
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



1 **HORIZONTAL CROSS SECTION**
5 Outswing Shown (Inswing Similar)



2 **HORIZONTAL CROSS SECTION**
5 Outswing Shown (Inswing Similar)
 Shown w/ PVC Jamb



3 HORIZONTAL CROSS SECTION
5 Outswing Shown (Inswing Similar)
 Shown w/ Wood Jambs

Notes:

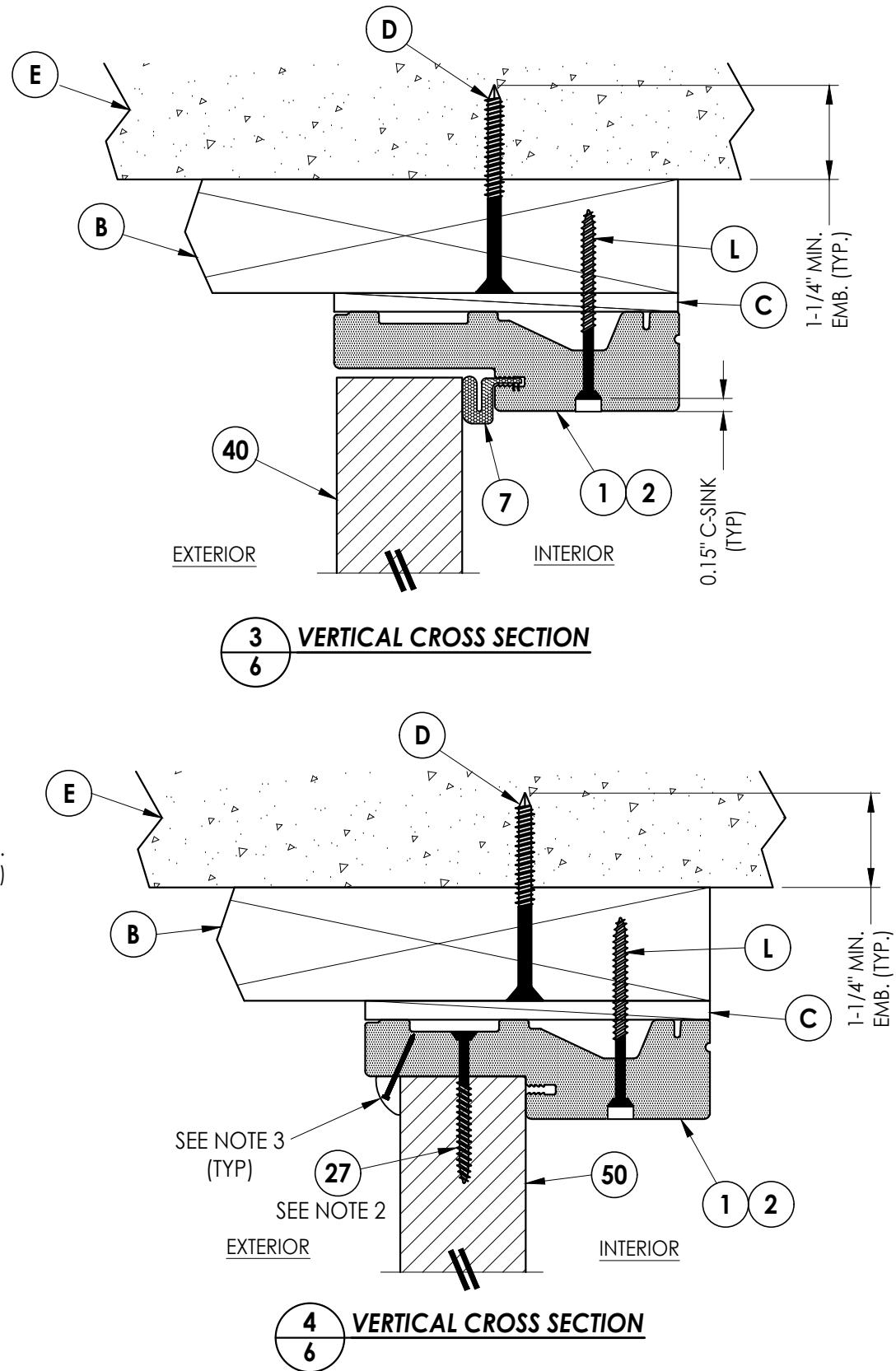
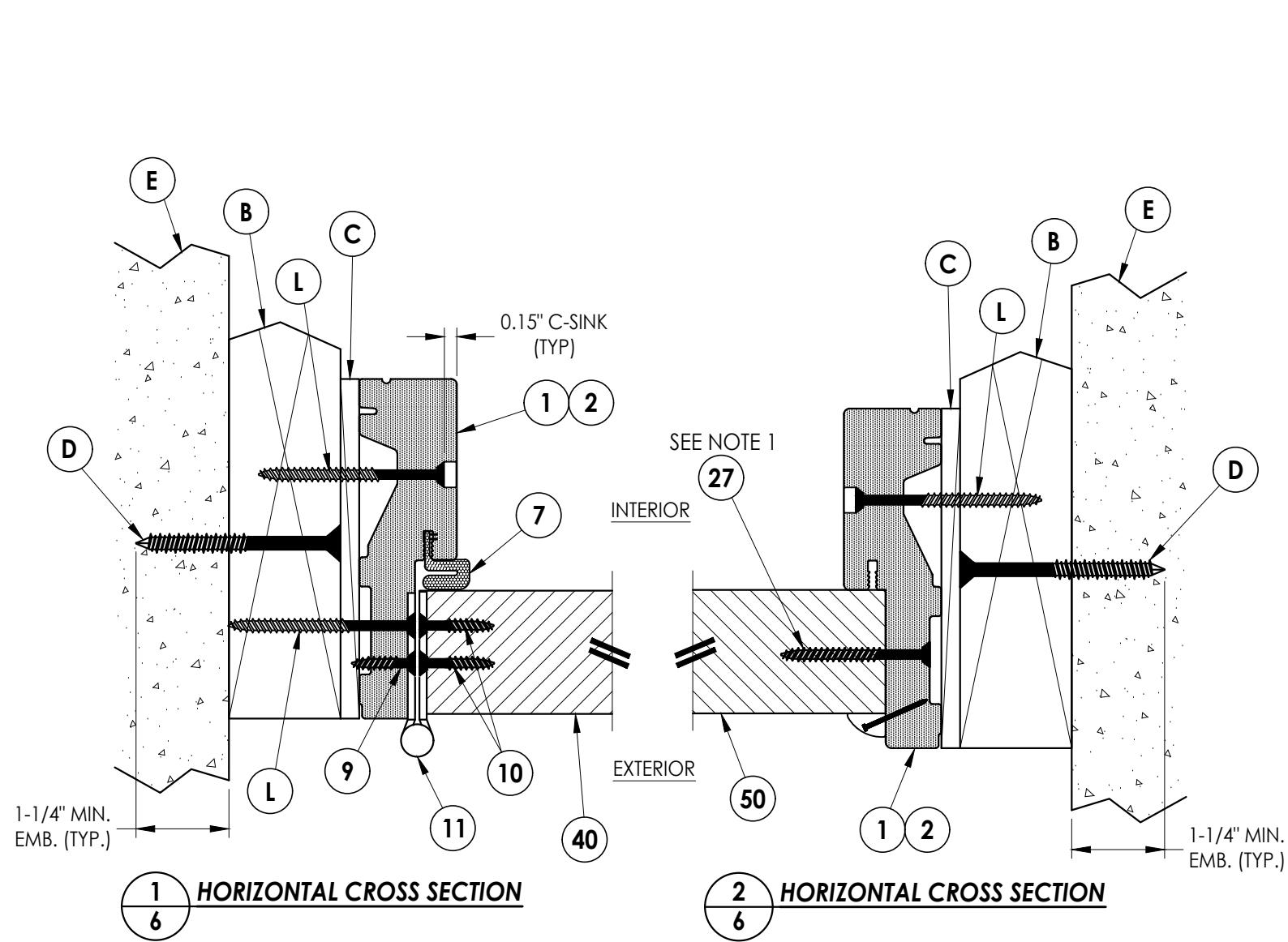
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
2. Moulding secured w/ 16 GA X 1" brad nails located 1" from ends & 6" o.c. max.

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: TRINITY FIBERGLASS PATIO DOOR "Impact"		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
			LFS
			LFS
			BY
		REVISIONS	
2	7/01/26	UPDATE TO 9TH ED. (2026)	FBC
1	7/31/23	UPDATE TO 8TH ED. (2023)	FBC
NO.	DATE		
DATE: 6/22/23			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-37185.4			
SHEET 5 OF 12			

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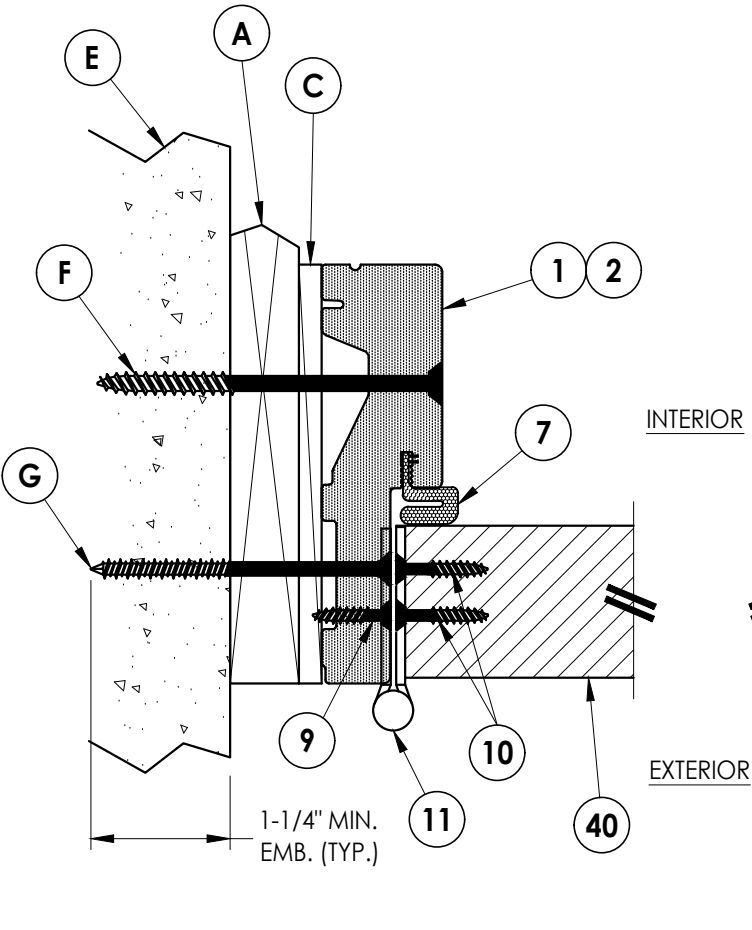
Notes:

1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
2. Sidelite assembly screws located @ centerline (1 screw total along head).
3. Moulding secured w/ 16 GA X 1" brad nails located 1" from ends & 6" o.c. max.

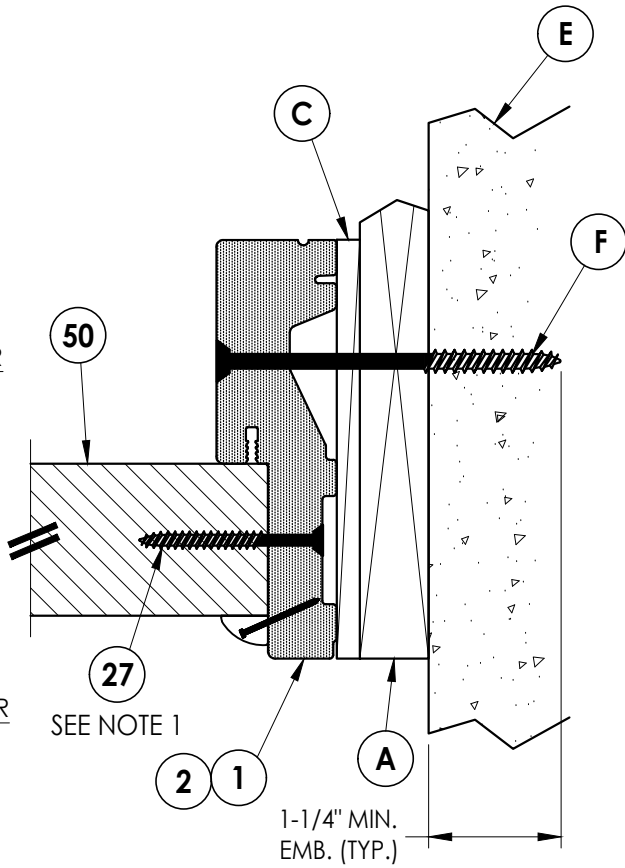


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409										RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
PRODUCT: TRINITY FIBERGLASS PATIO DOOR "Impact"										PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

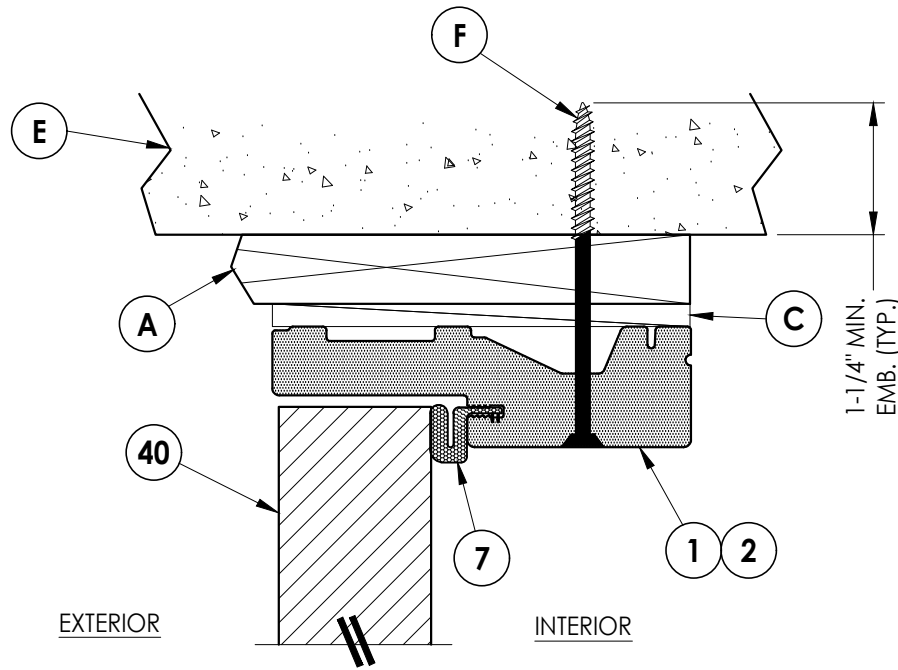
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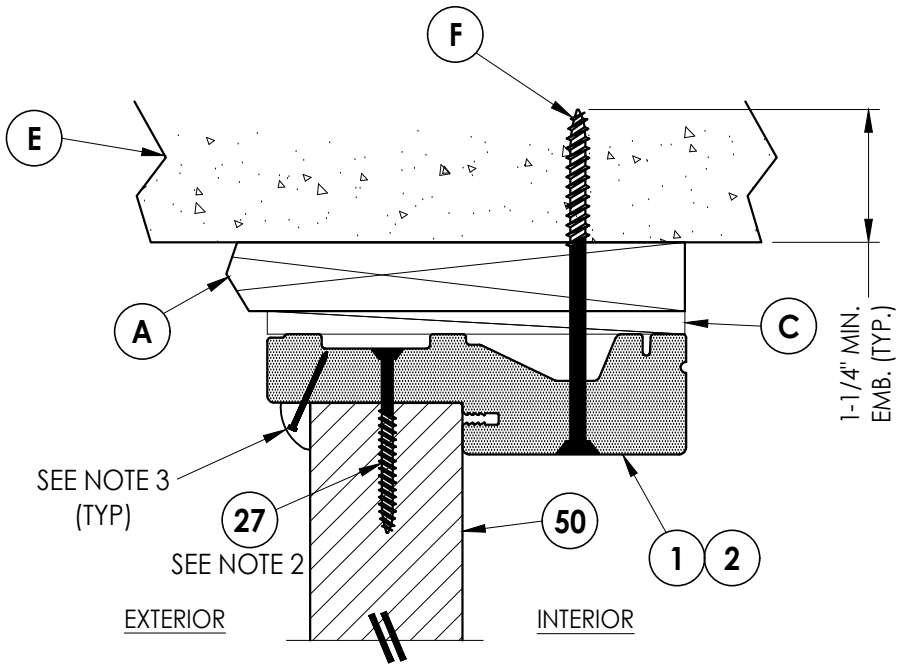
1
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck



2
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck



3
7 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck



4
7 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck

Notes:

1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
2. Sidelite assembly screws located @ centerline (1 screw total along head).
3. Moulding secured w/ 16 GA X 1" brad nails located 1" from ends & 6" o.c. max.

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: TRINITY
FIBERGLASS PATIO DOOR
"Impact"

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC
1	7/31/23	UPDATE TO 8TH ED. (2023) FBC

DATE: 6/22/23

SCALE: N.T.S.

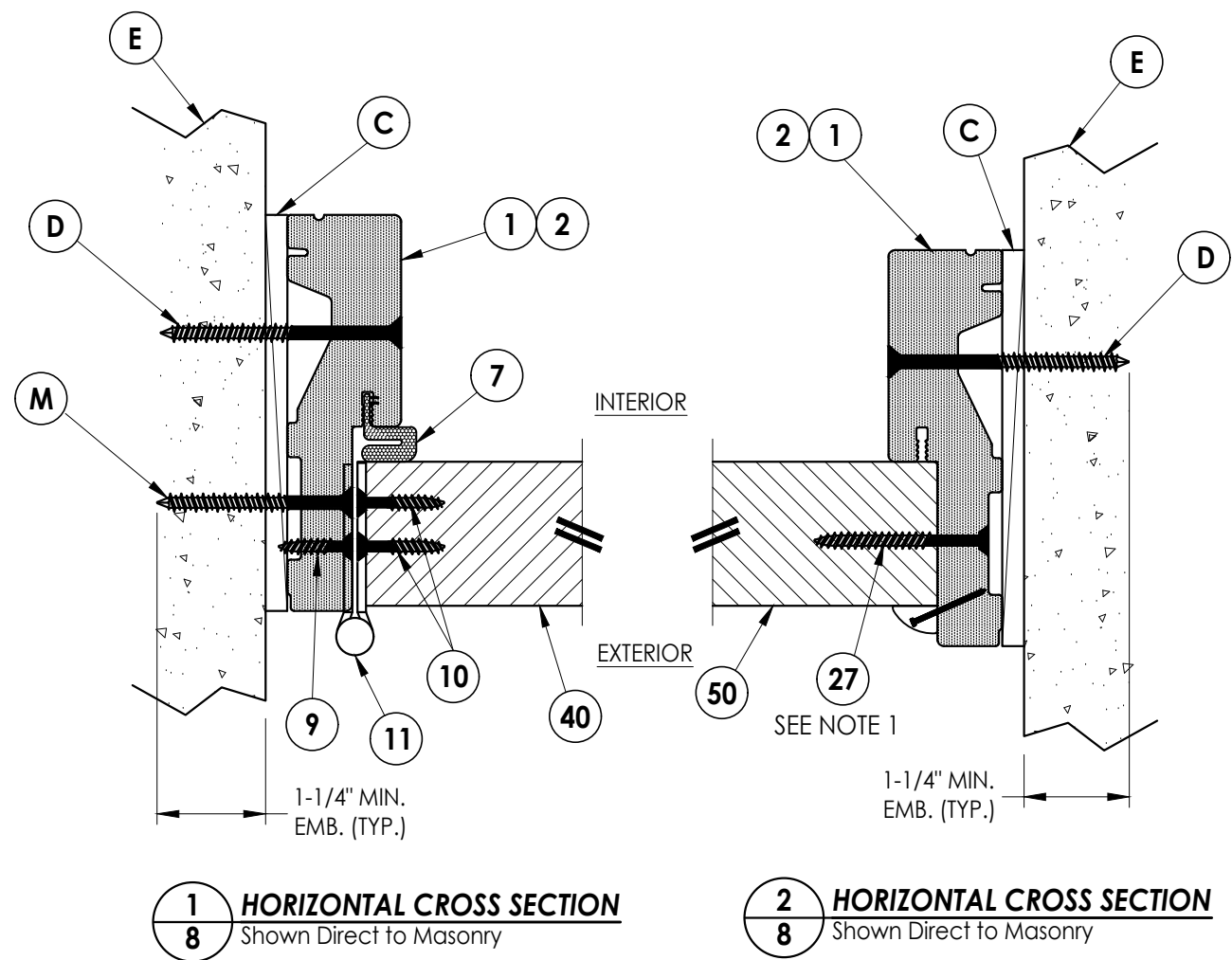
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

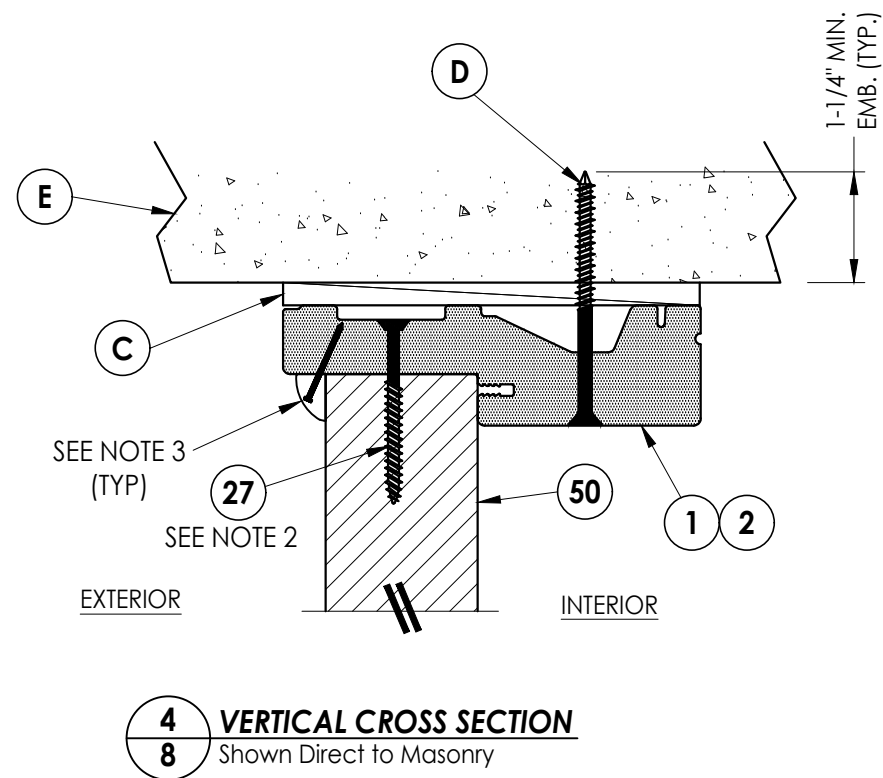
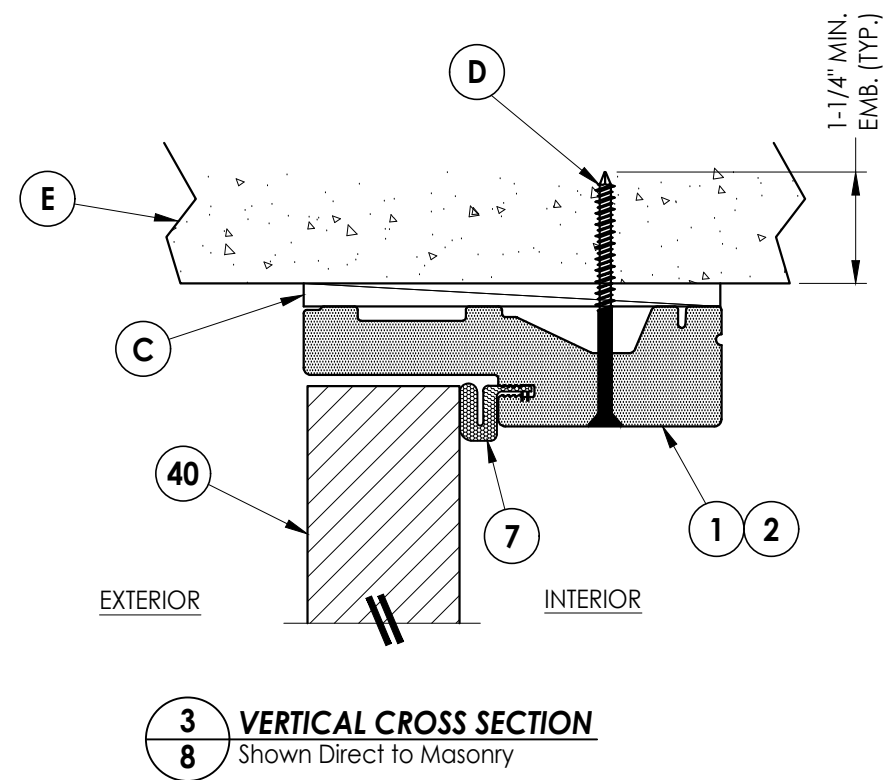
FL-37185.4

SHEET 7 OF 12

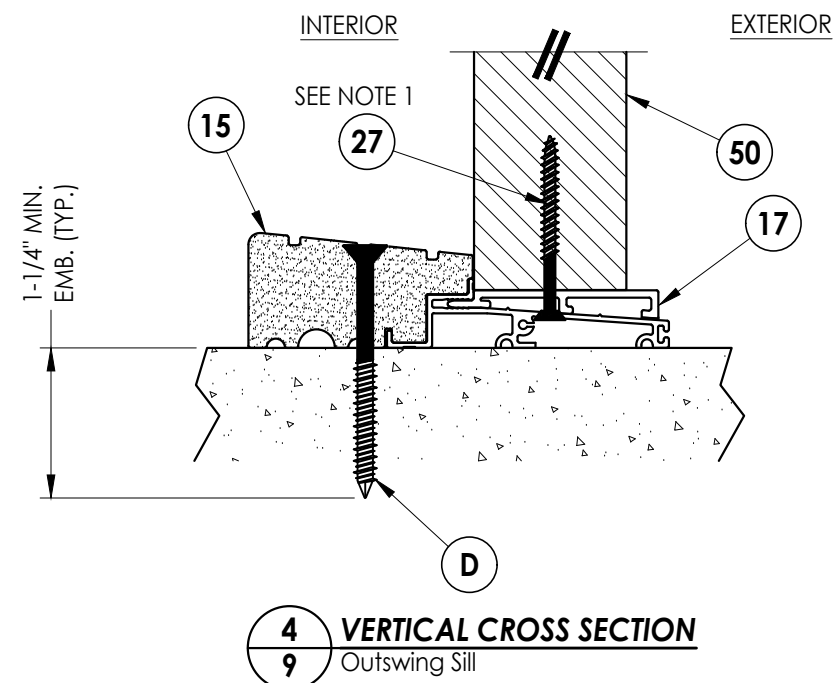
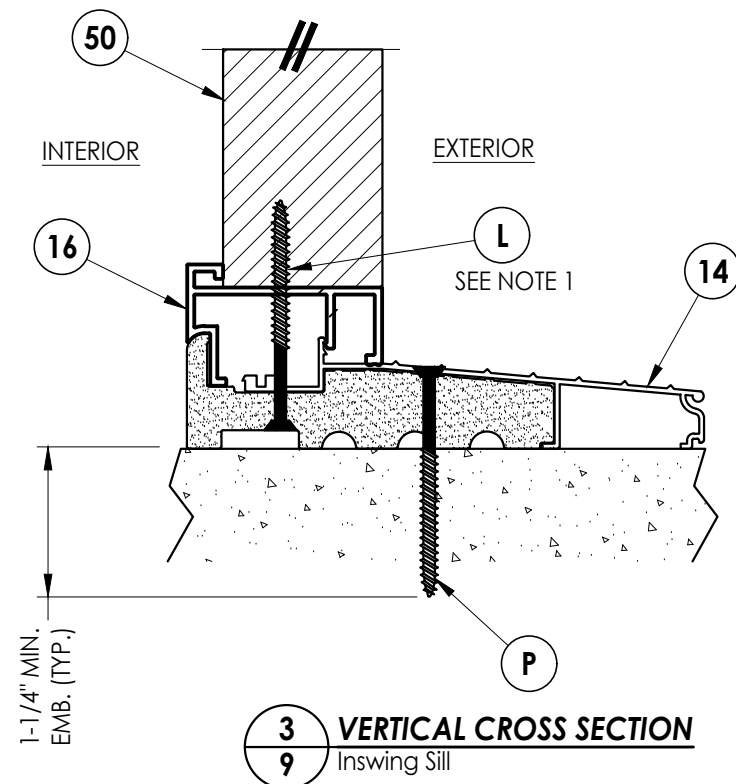


Notes:

1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
2. Sidelite assembly screws located @ centerline (1 screw total along head).
3. Moulding secured w/ 16 GA X 1" brad nails located 1" from ends & 6" o.c. max.

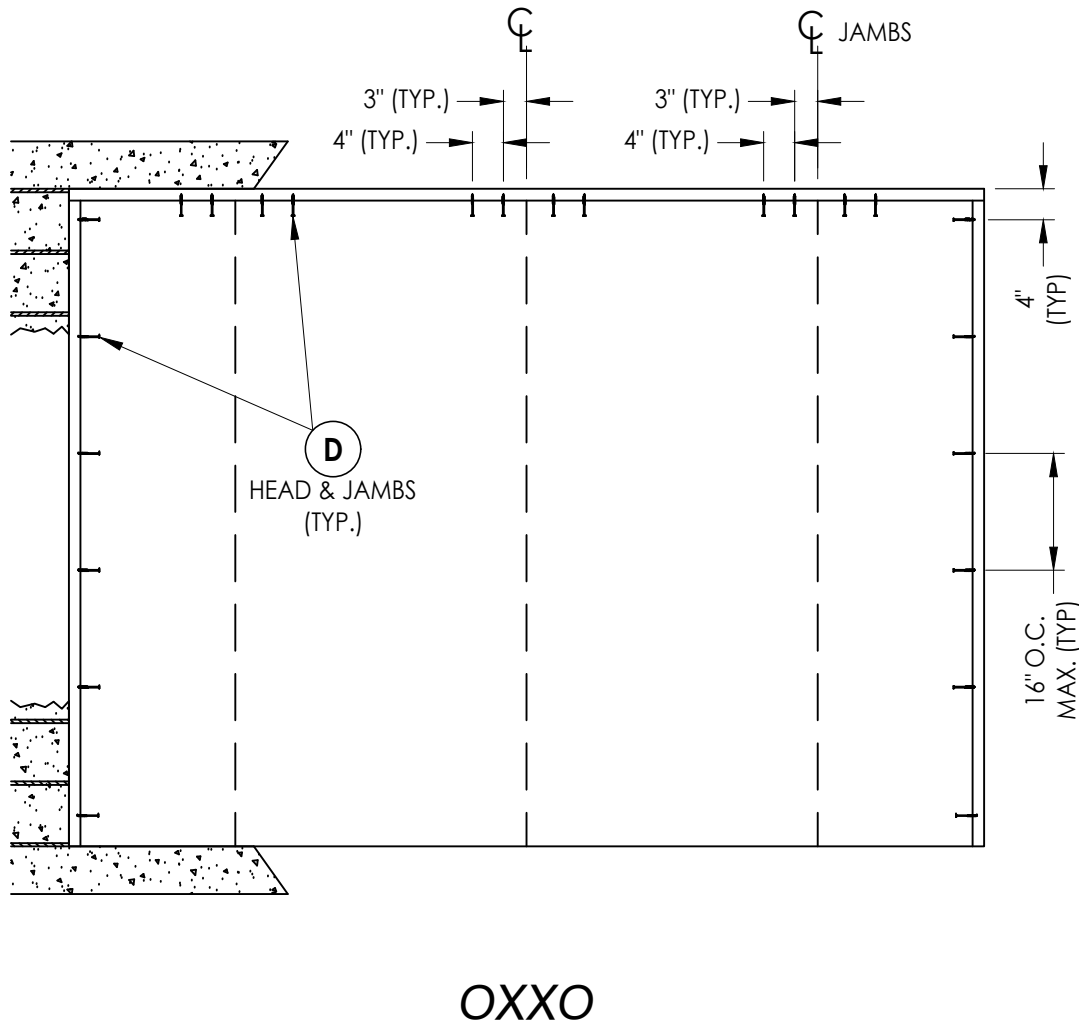
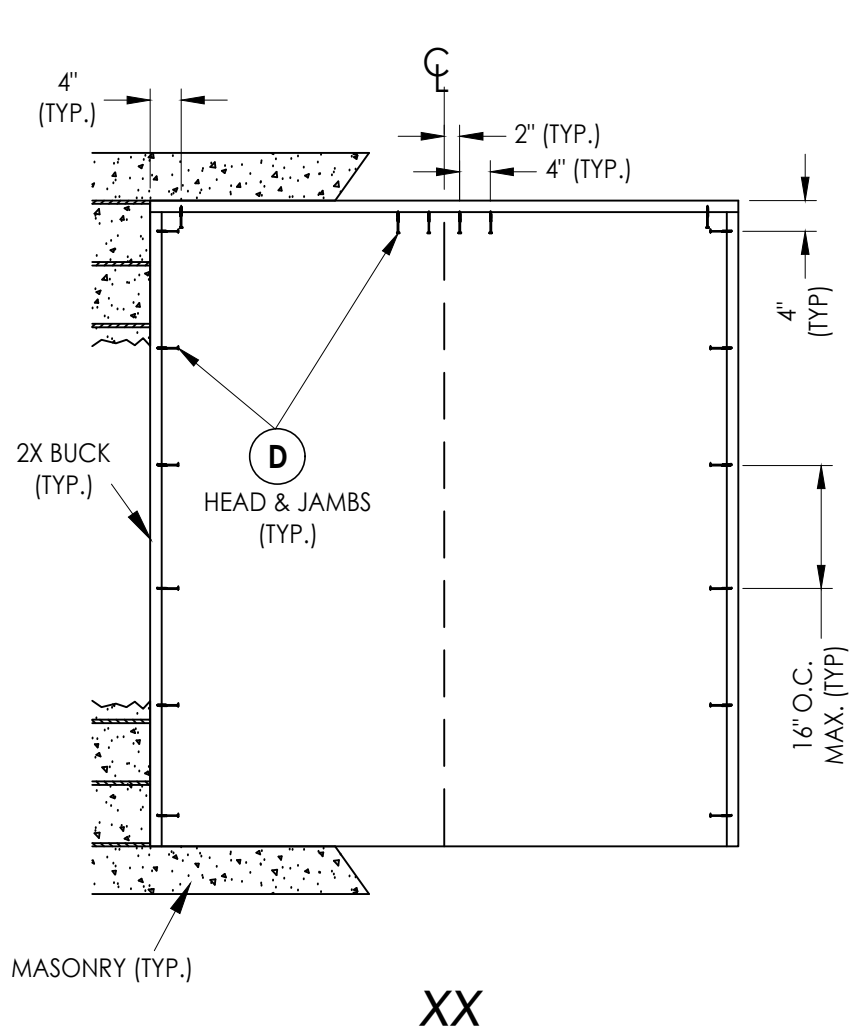
[illegible]

1. Sidelite assembly screws located @ centerline (1 screw total along sill).



						Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PRODUCT: TRINITY FIBERGLASS PATIO DOOR <i>"Impact"</i> PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)						BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
						LFS	
						FBC	(2026)
						FBC	(2023)
						BY	
						NO.	DATE
						REVISIONS	
DATE: 6/22/23							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-37185.4							
SHEET 9 OF 12							

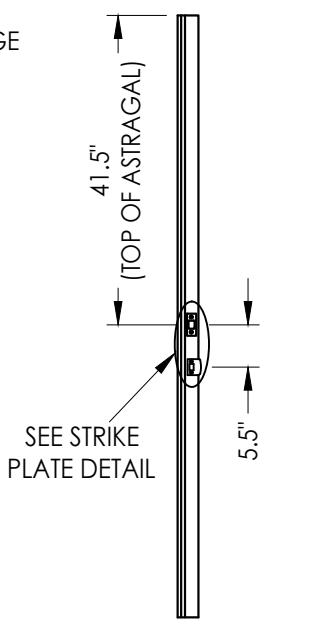
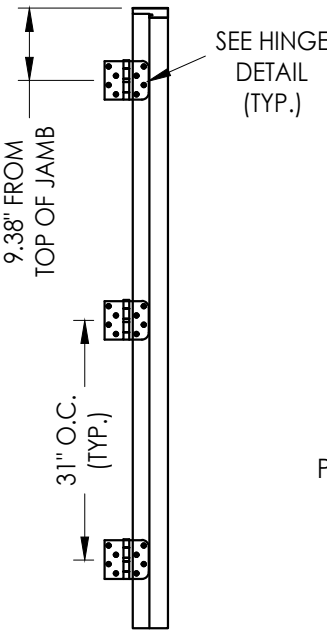
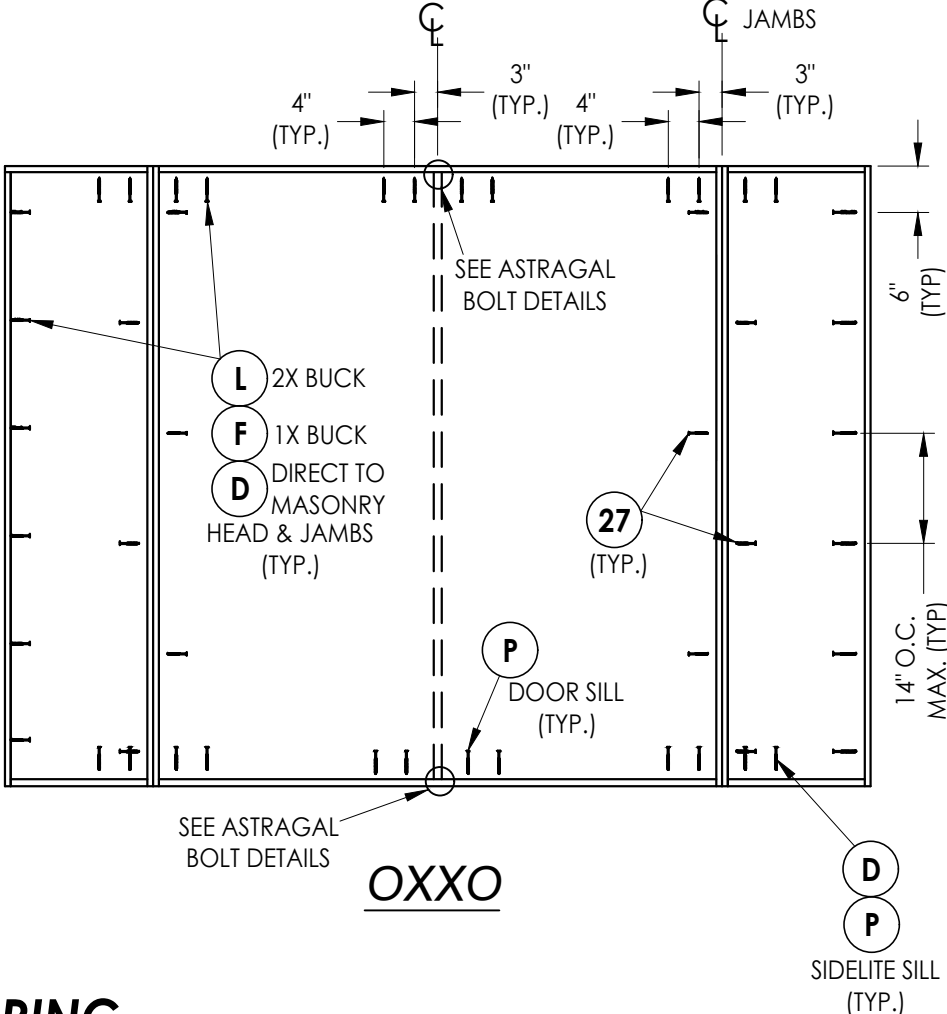
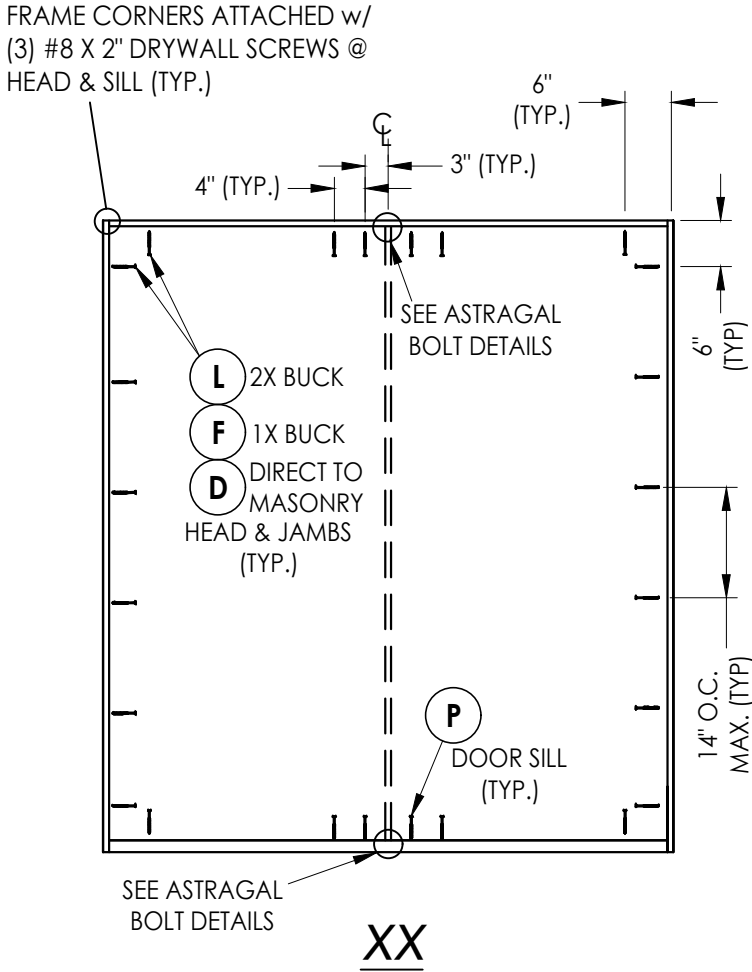
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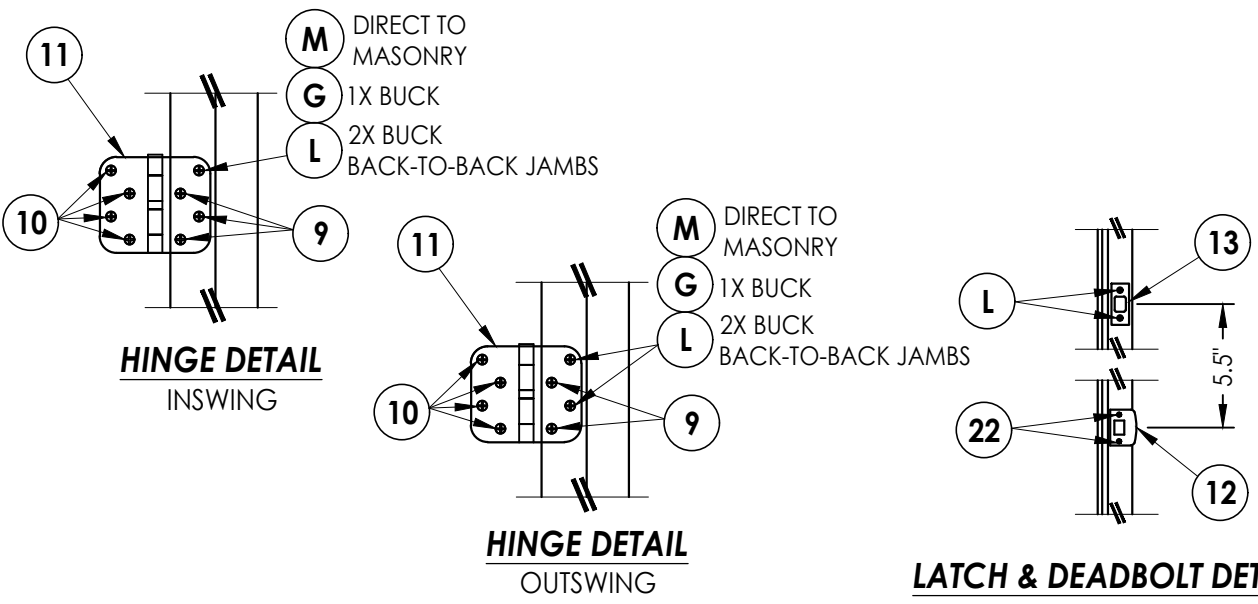
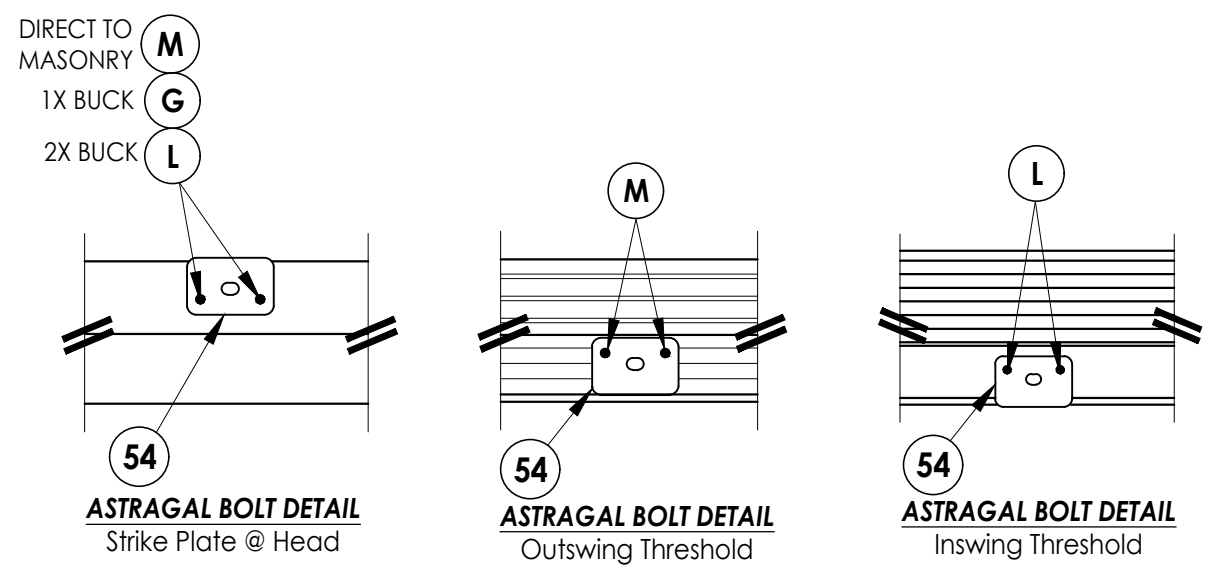
2X BUCK ANCHORING

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813				
PRODUCT:		TRINITY		PART OR ASSEMBLY: BUCK ANCHORING				
FIBERGLASS PATIO DOOR		"Impact"						
				2	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
				1	7/31/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
				NO.	DATE			BY
				REVISIONS				
DATE: 6/22/23								
SCALE: N.T.S.								
DWG. BY: RW								
CHK. BY: LFS								
DRAWING NO.: FL-37185.4								
SHEET 10 OF 12								

Z:\2023 FBC Drawings\Trinity Glass Int'l\FL-37185 R3\FL-37185.4.dwg



FRAME ANCHORING



HARDWARE DETAILS

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813				
PRODUCT: TRINITY FIBERGLASS PATIO DOOR "Impact"		RW PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS				
		2	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
		1	7/31/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
		NO.	DATE			BY
REVISIONS						
DATE: 6/22/23						
SCALE: N.T.S.						
DWG. BY: RW						
CHK. BY: LFS						
DRAWING NO.: FL-37185.4						
SHEET 11 OF 12						

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
M	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
P	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	PVC JAMB	COMP
2	WOOD JAMB	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	#9 X 3/4" PFH WOOD SCREW	STEEL
10	#9 X 1" PFH WOOD SCREW	STEEL
11	4" X 4" HINGE	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
14	INSWING THRESHOLD	ALUM/COMP
15	OUTSWING THRESHOLD	ALUM/COMP
16	INSWING SIDELITE ADAPTER	PVC
17	OUTSWING SIDELITE ADAPTER	PVC
22	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	#10 X 2" PFH SMS	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
53	ALUMINUM ASTRAGAL	ALUM
54	ASTRAGAL STRIKE PLATE	STEEL
55	#8 X 1" PFH WS	STEEL

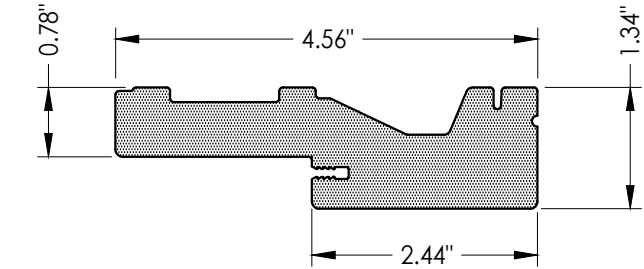
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. Concrete anchor table:

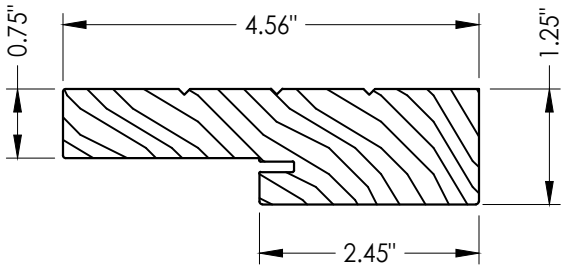
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRAON®+	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

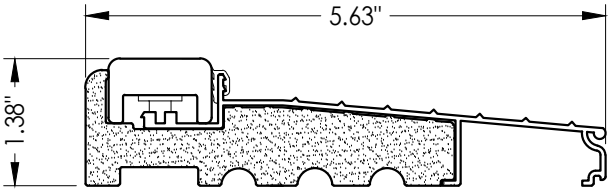
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



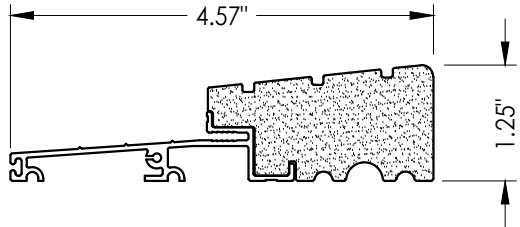
1 PVC JAMB



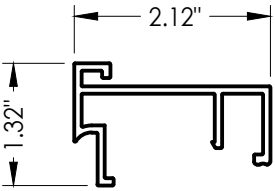
2 WOOD JAMB
FINGER JOINTED PINE



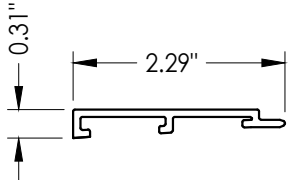
14 INSWING THRESHOLD



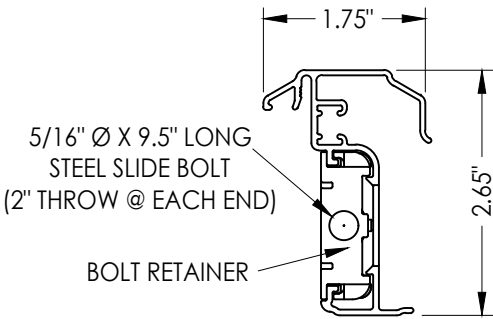
15 OUTSWING THRESHOLD



16 INSWING SIDELITE ADAPTER



17 OUTSWING SIDELITE ADAPTER



53 **ENDURA ASTRAGAL**
Ultimate Hurricane

[illegible]