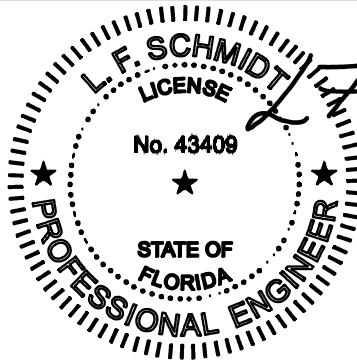




Digitally signed by
Lyndon F Schmidt
Date: 2025.07.02
15:09:41 -04'00'

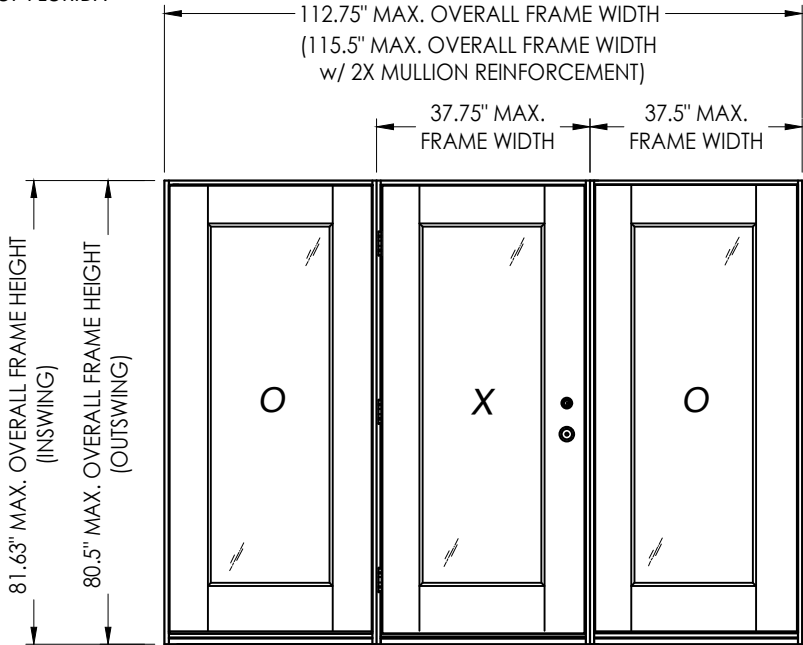
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.

Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

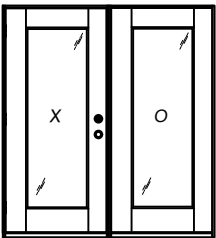
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

"Direct Glaze"
Fiberglass Door
Single w/ Sidelite(s)

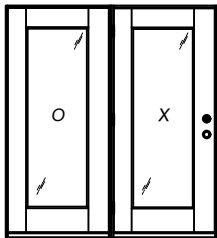
INSWING/OUTSWING
"IMPACT"



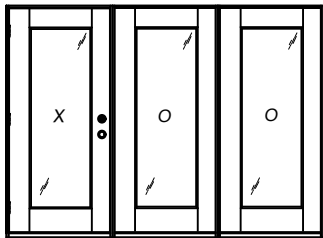
OXO



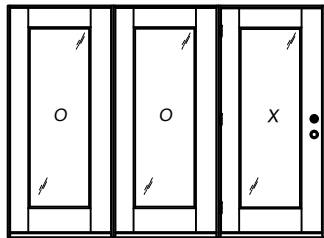
XO, OX



OX, XO



XOO, OOX



OOX, XOO

CONFIGURATION	MAX. FRAME DIMENSION	JAMB MATERIAL	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX, XO	75.0" x 81.63"	WOOD	+45.0	-50.0	+50.0*	-50.0*
OXO, XOO, OOX	115.5" x 81.63"		+45.0	-50.0	+50.0*	-50.0*
OX, XO	75.5" x 81.63"	PVC	+50.0	-50.0	+50.0	-50.0
OXO, XOO, OOX	112.75" x 81.63"		+50.0	-50.0	+50.0	-50.0

*2X MULLION REINFORCEMENT REQUIRED

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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 & Flush Glazing 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

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

TRINITY
FIBERGLASS PATIO DOOR

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

DATE: 1/30/25

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-47284.6

SHEET 1 OF 12

ADD GLAZING DETAIL G3

NO. 1

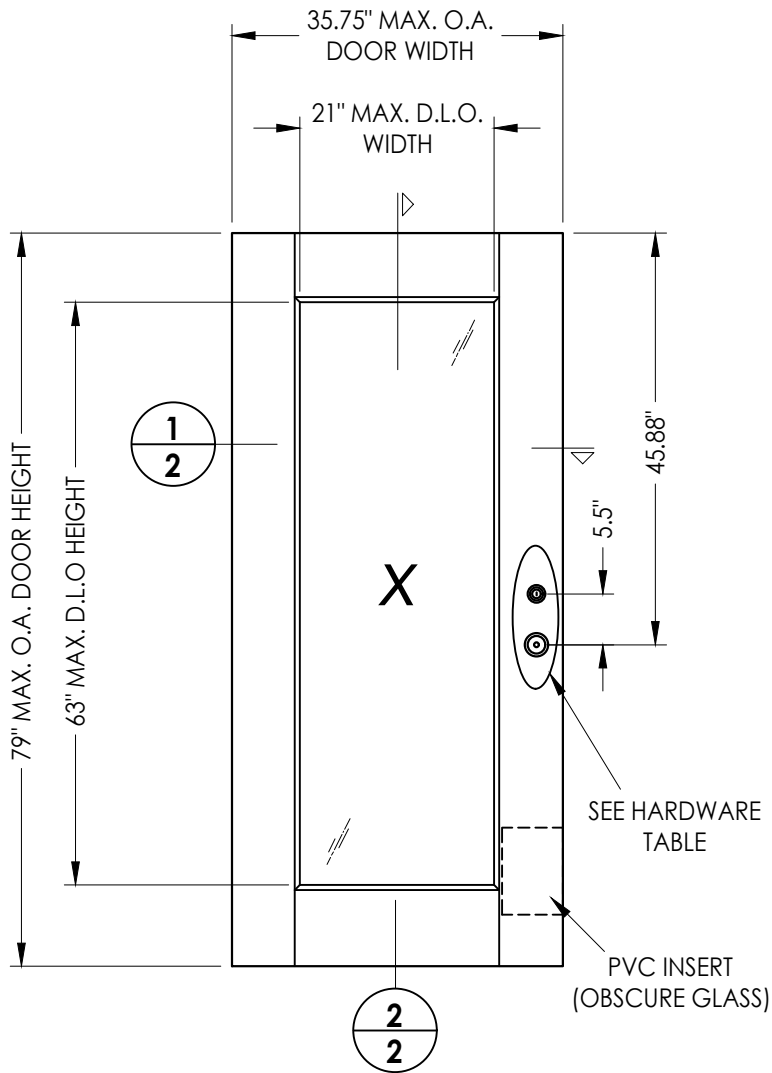
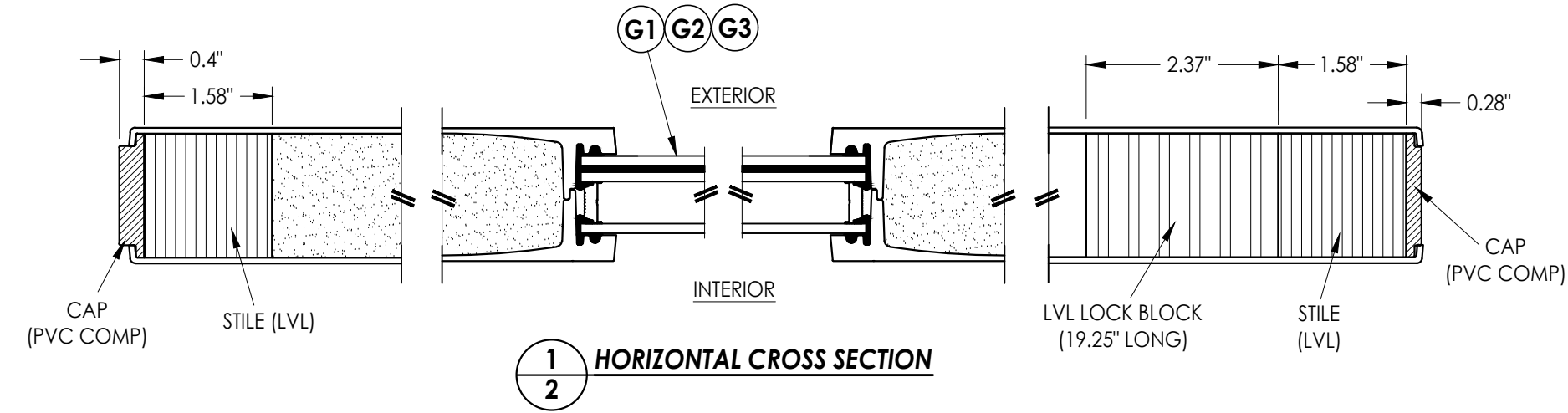
DATE 6/20/25

BY LFS

REVISIONS

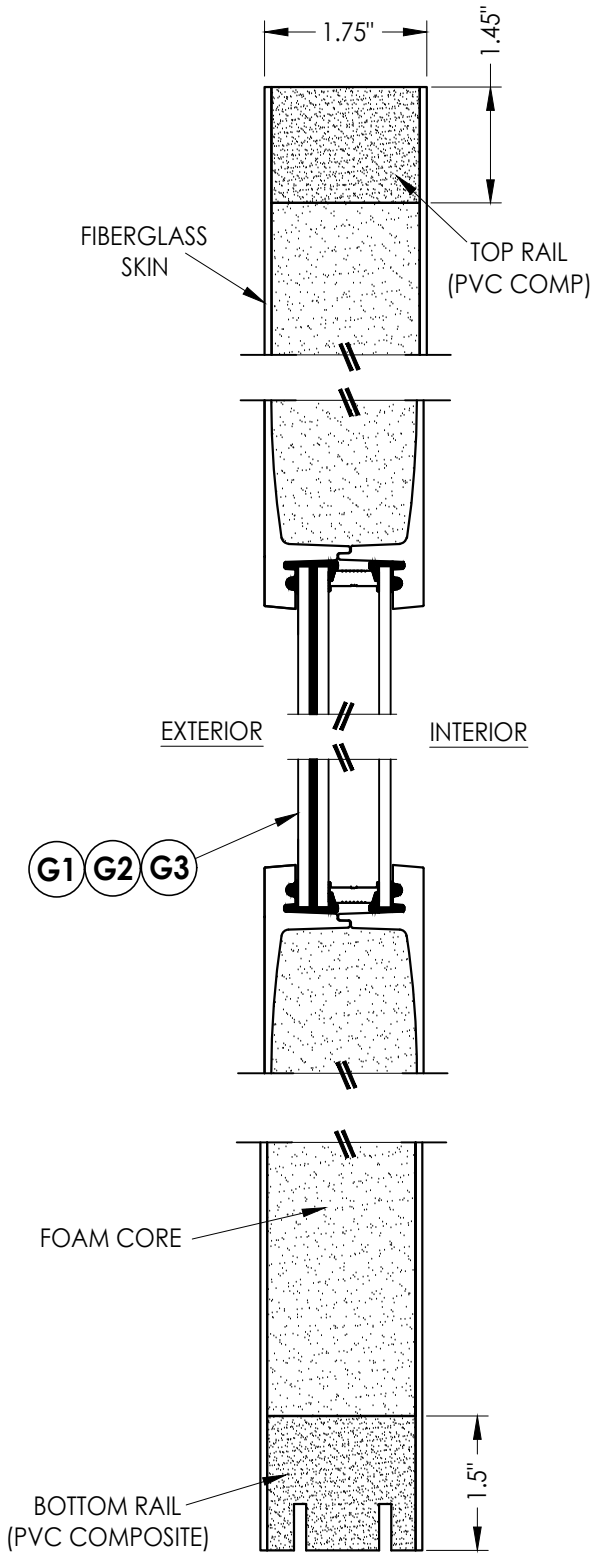
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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FIBERGLASS DOOR SKIN: MIN. 0.071" THK.
FOAM CORE MATERIAL: POLYURETHANE

HARDWARE CHART		
MANUFACTURER	MODEL	
KWIKSET	Knob:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	Knob:	F SERIES
	DEADBOLT:	B60 SERIES



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

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

PRODUCT: TRINITY
FIBERGLASS PATIO DOOR

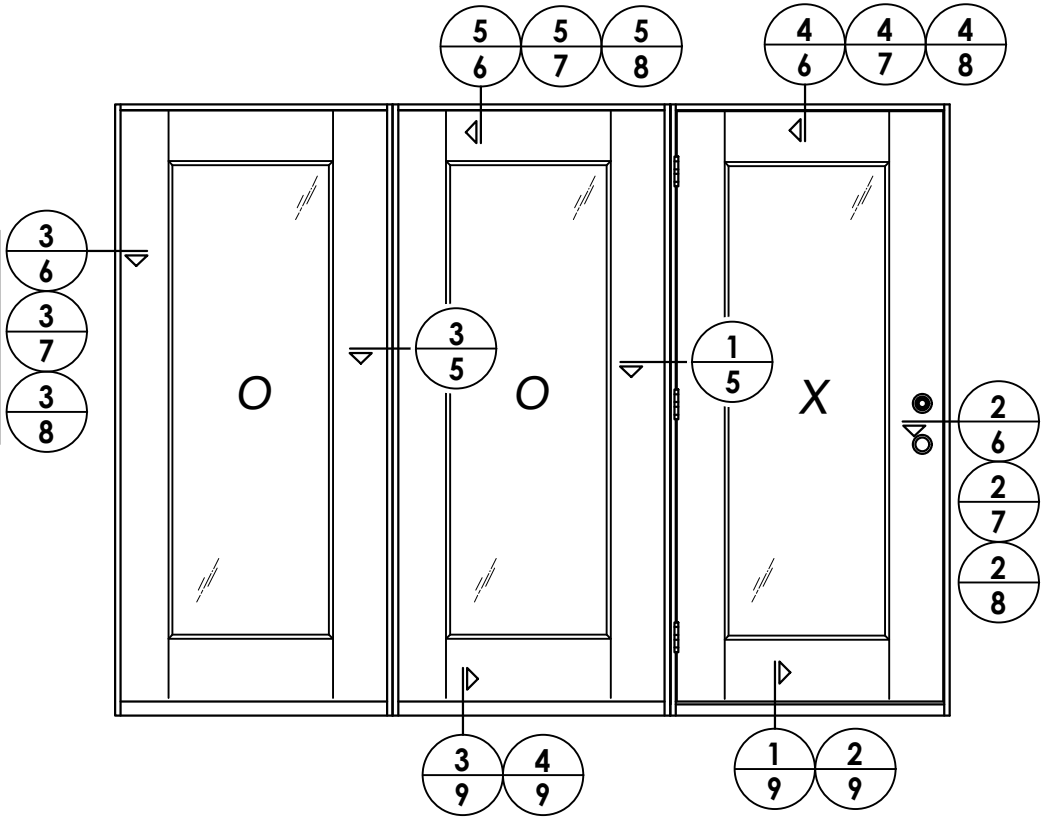
PART OR ASSEMBLY:
DOOR
PANEL DETAILS

REVISIONS	
NO.	DATE
1	6/20/25
ADD GLAZING DETAIL G3	
LFS	BY

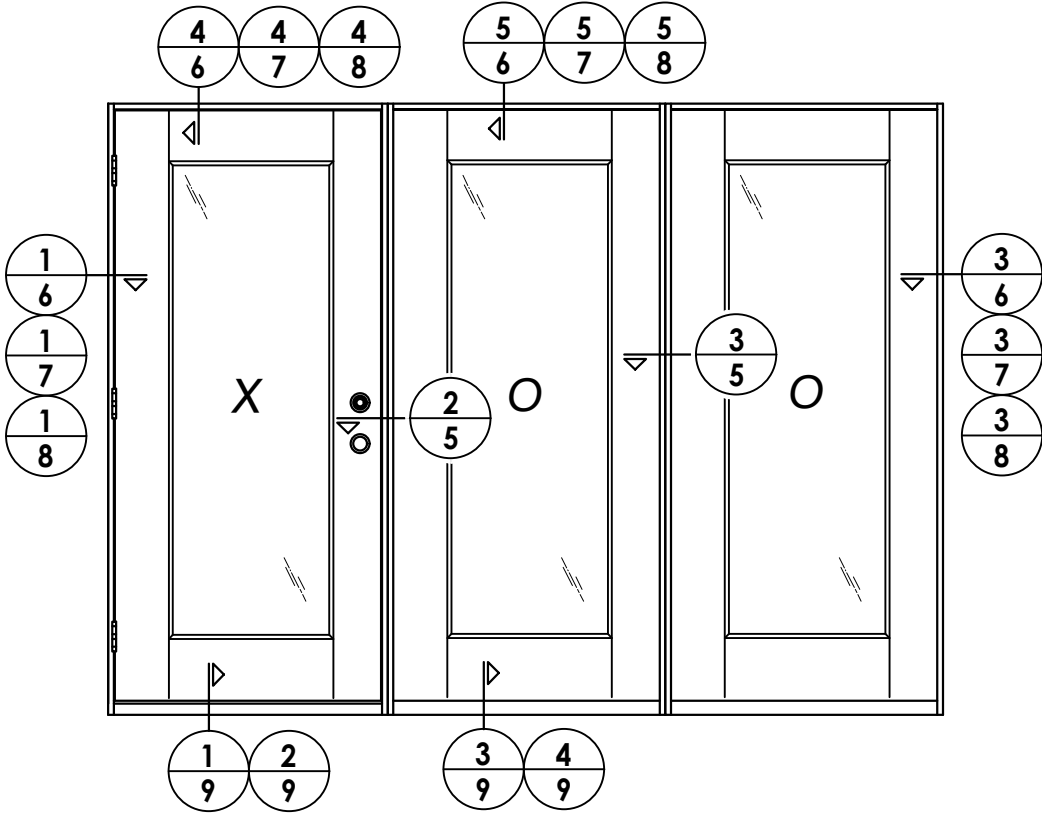
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CHK. BY: LFS
DRAWING NO.: FL-47284.6
SHEET 2 OF 12

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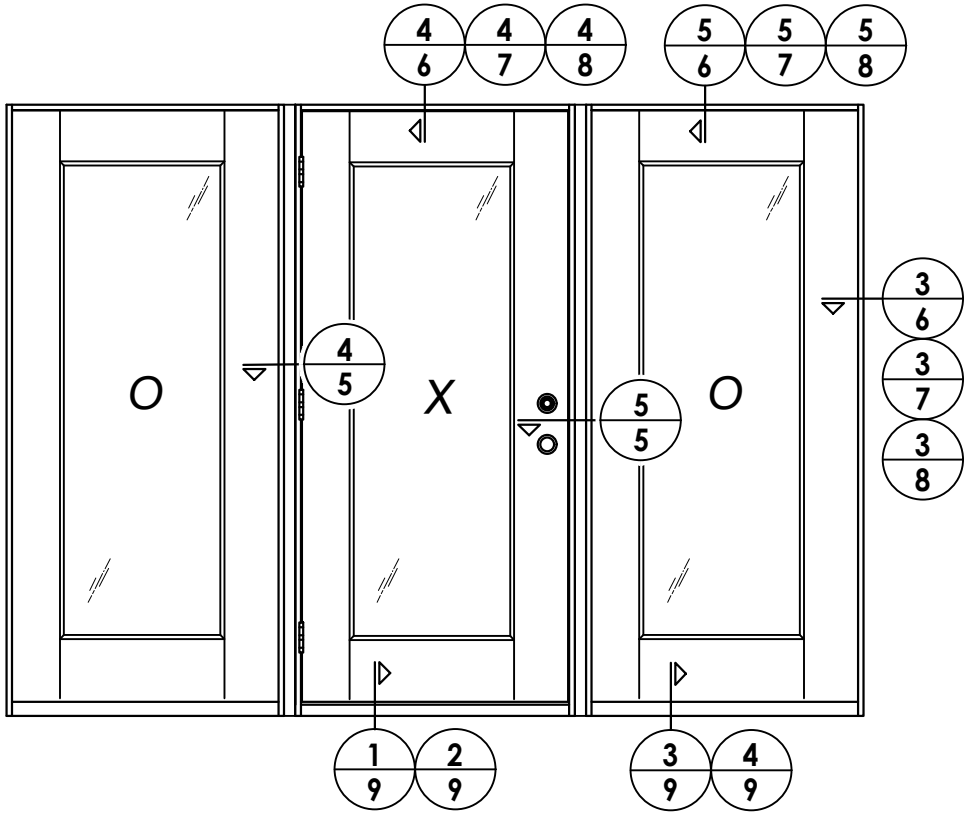
MIRRORED IMAGE



ELEVATION
OOX / XOO (SHOWN)
OX / XO (SIMILAR)
(CENTER HINGED)



ELEVATION
XOO / OOX (SHOWN)
XO / OX (SIMILAR)



ELEVATION
OXO

DATE: 1/30/25
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-47284.6
SHEET 4 OF 12

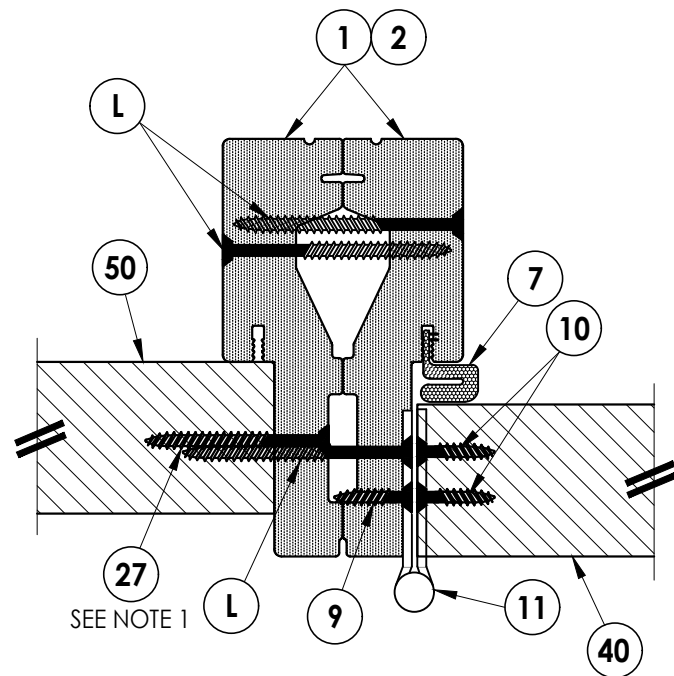
PRODUCT: TRINITY
FIBERGLASS PATIO DOOR

PART OR ASSEMBLY:
ELEVATIONS

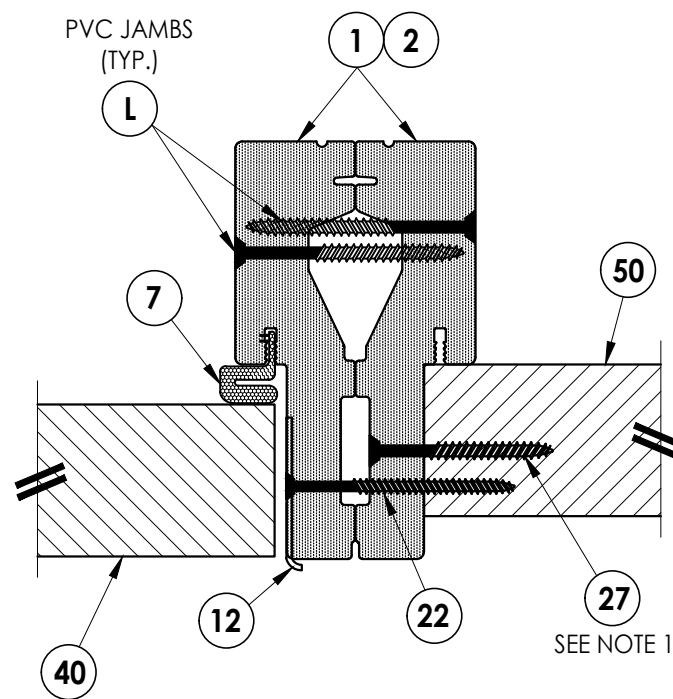
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

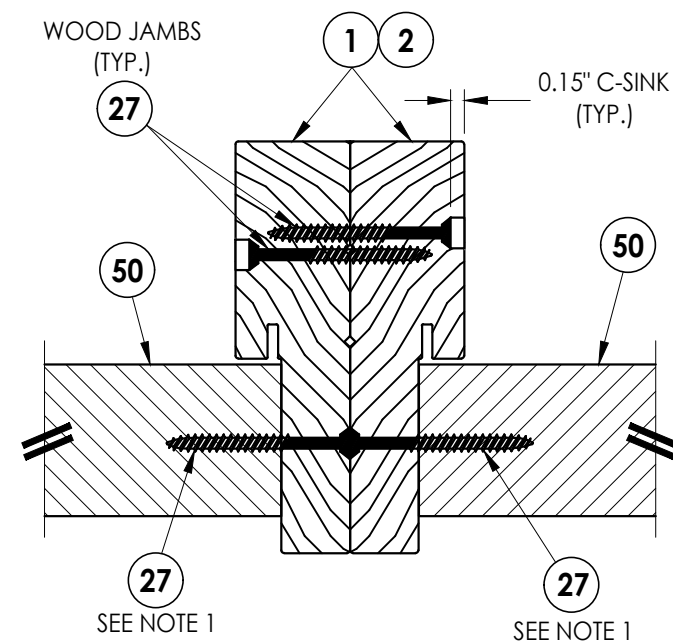
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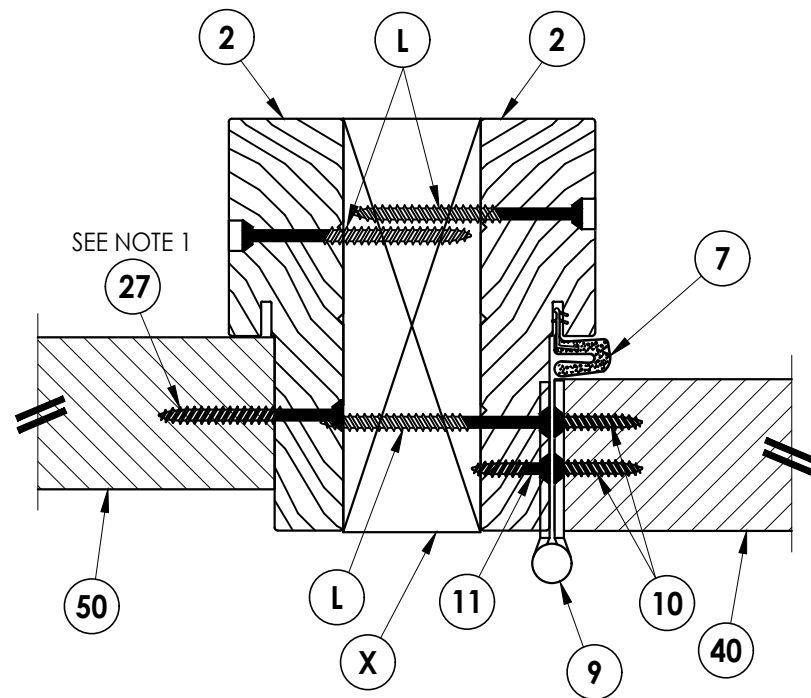
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5 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



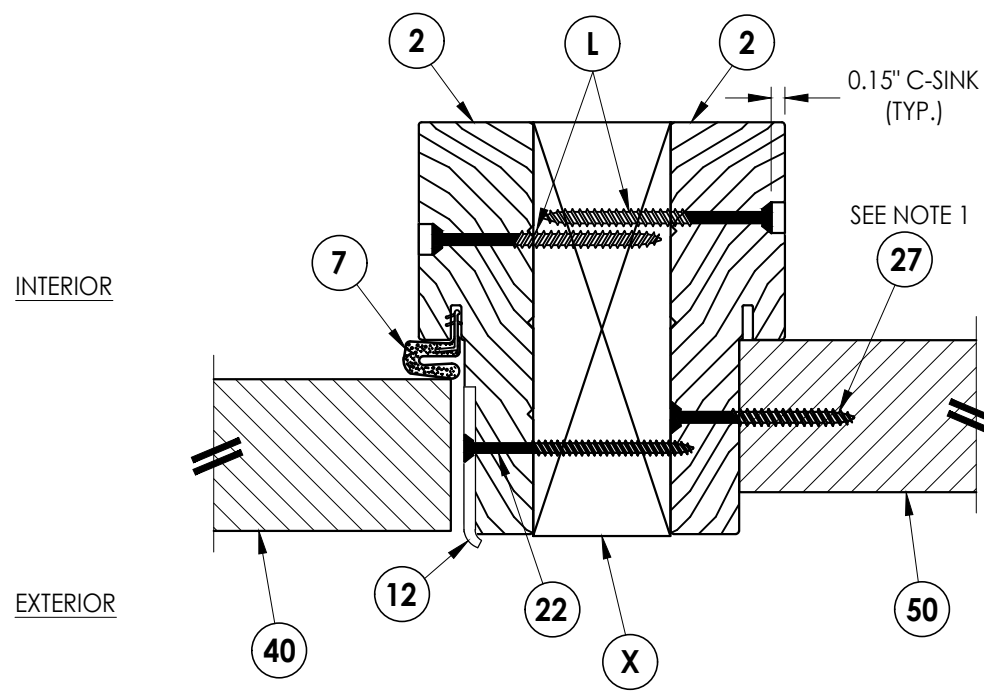
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5 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



3
5 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)



4
5 **HORIZONTAL CROSS SECTION**
Outswing shown w/ 2X Mullion Reinforcement



5
5 **HORIZONTAL CROSS SECTION**
Outswing shown w/ 2X Mullion Reinforcement

Note:

1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).

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

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
1	6/20/25	ADD GLAZING DETAIL G3

DATE: 1/30/25

SCALE: N.T.S.

DWG. BY: RW

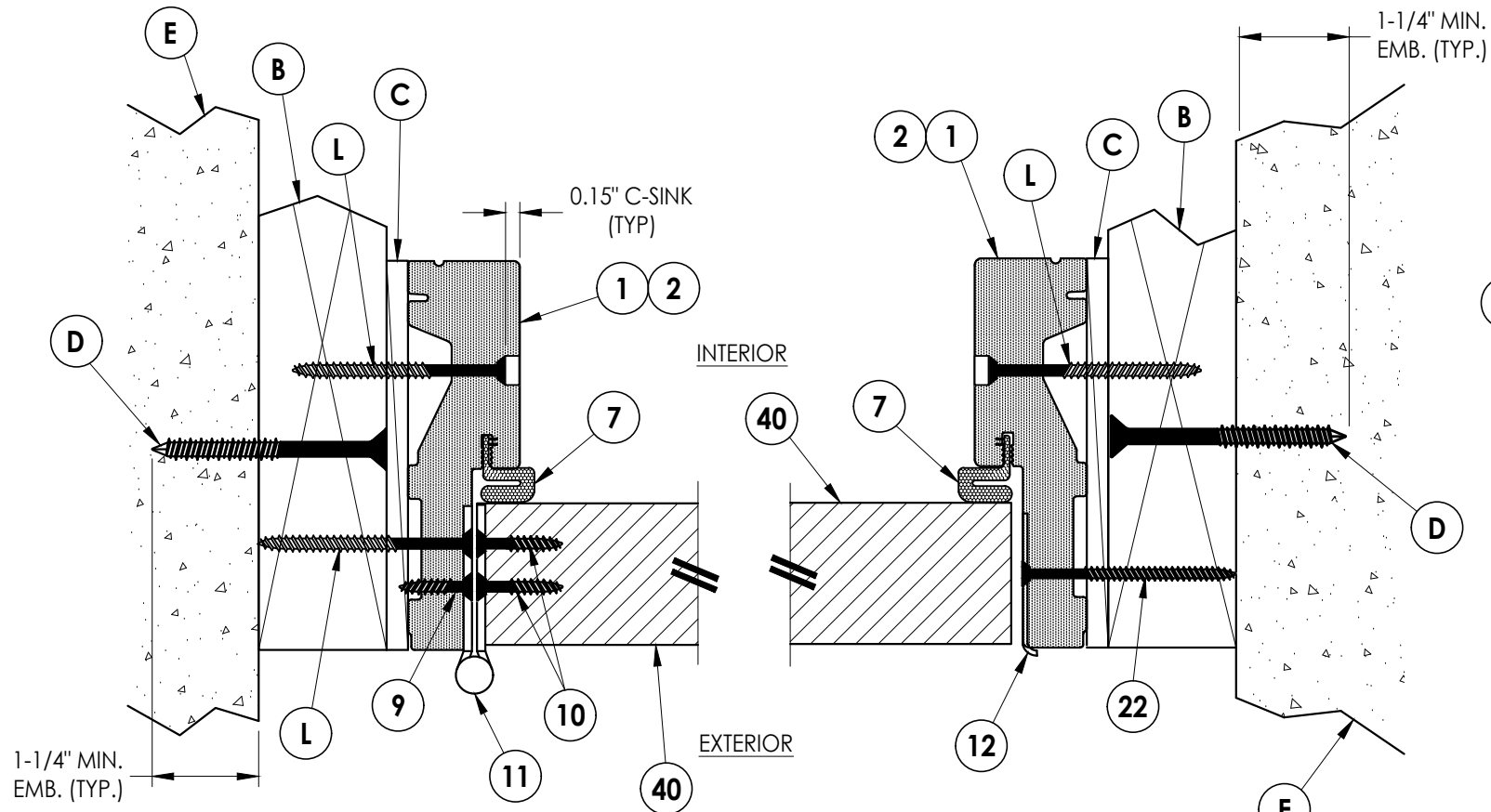
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DRAWING NO.:

FL-47284.6

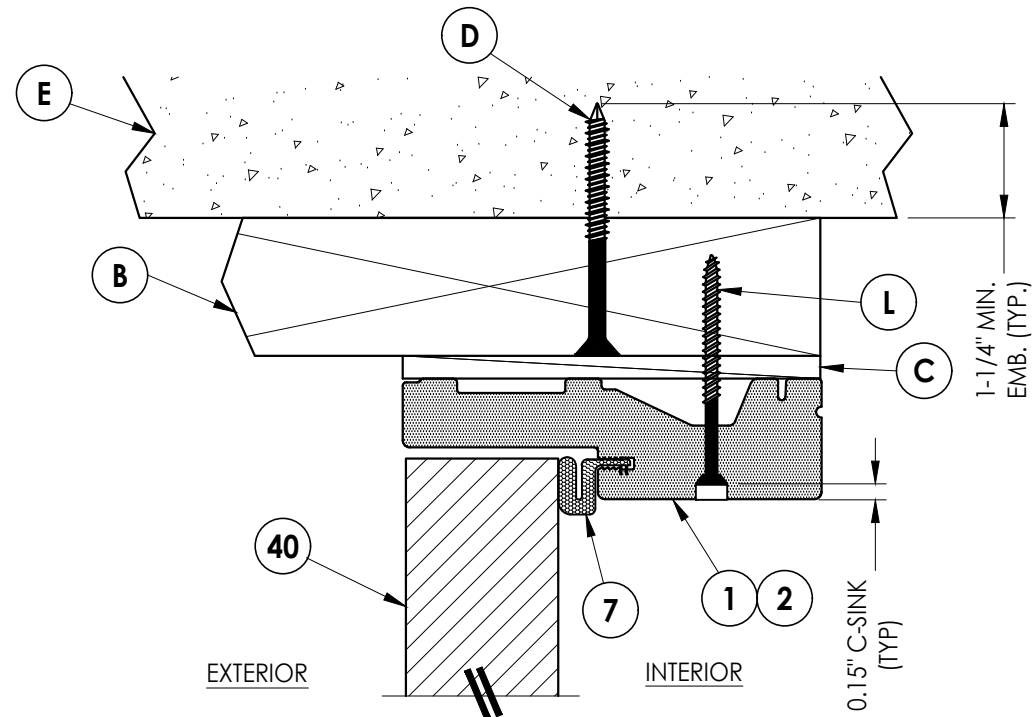
SHEET 5 OF 12

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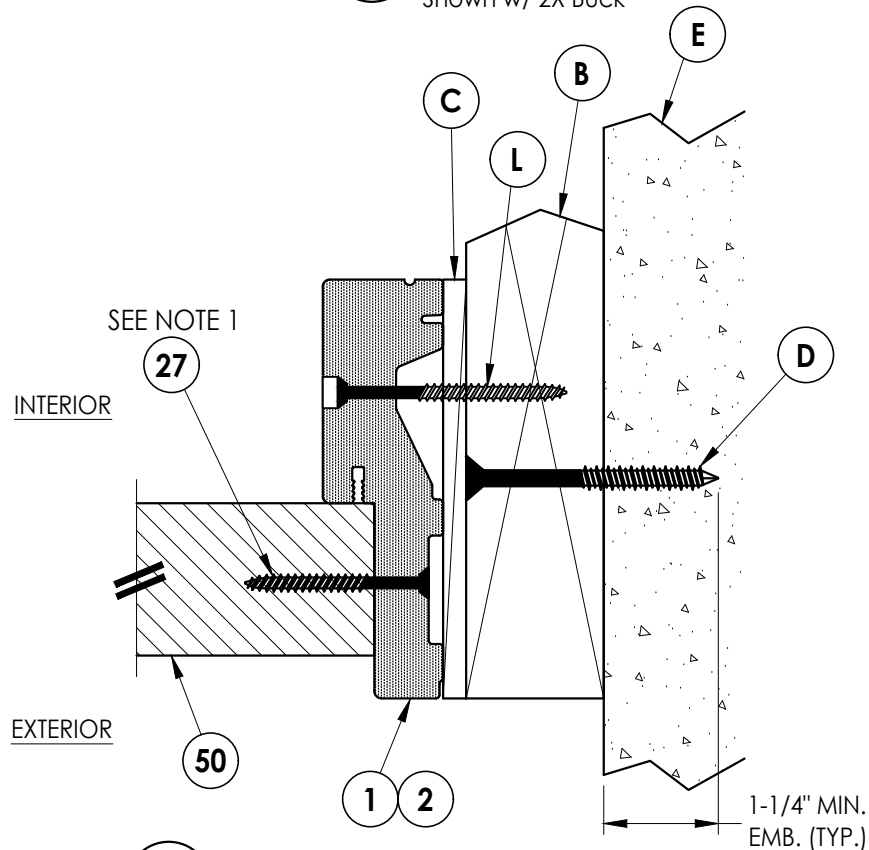


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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X Buck

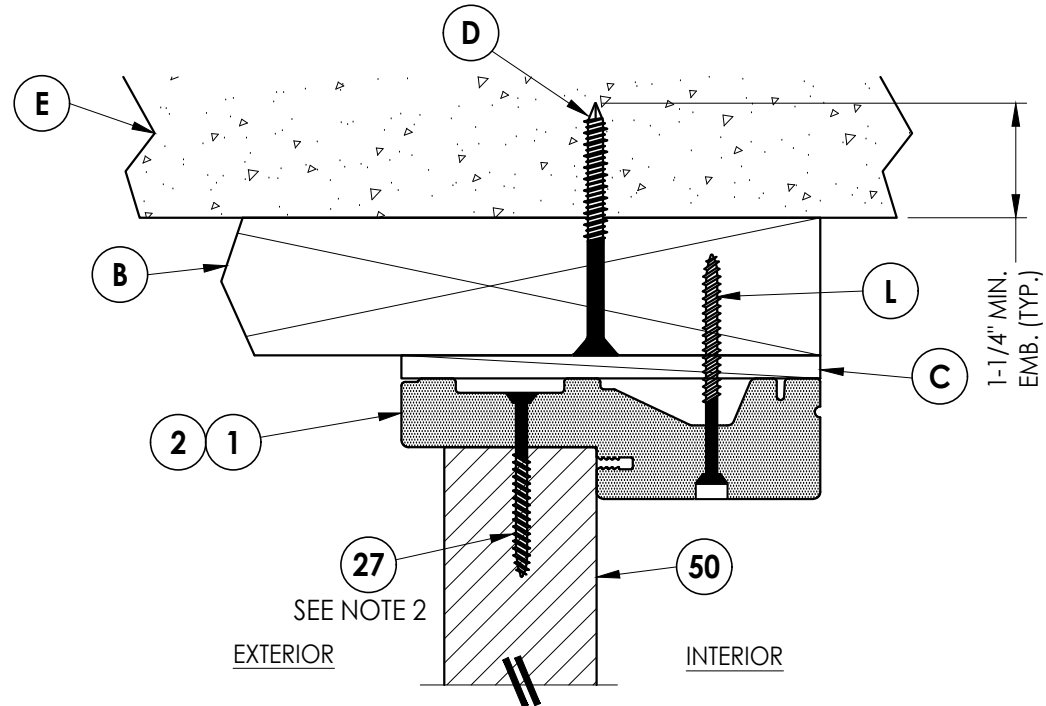
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6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X Buck



4
6 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X Buck



3
6 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X Buck



5
6 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X 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 10" from each end (2 screws total along head & sill).

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

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	ADD GLAZING DETAIL G3	LFS	BY
1	6/20/25			

DATE: 1/30/25

SCALE: N.T.S.

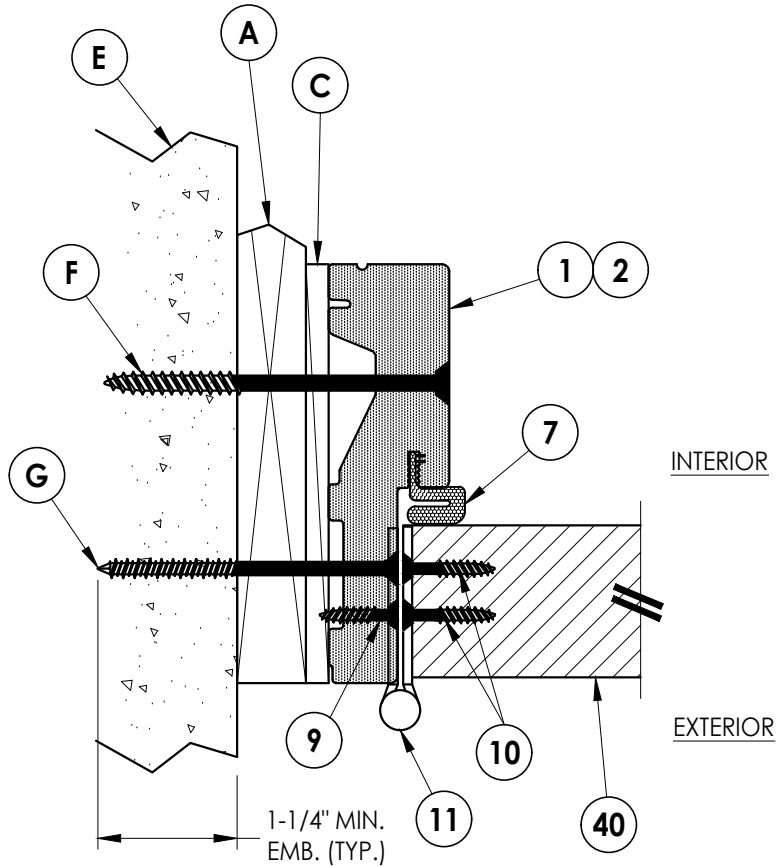
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CHK. BY: LFS

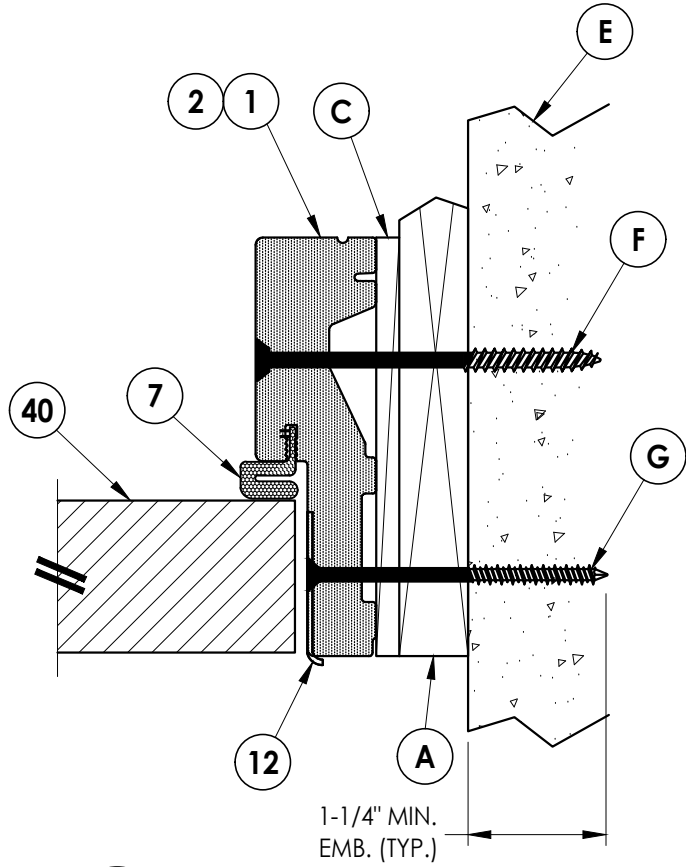
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SHEET 6 OF 12

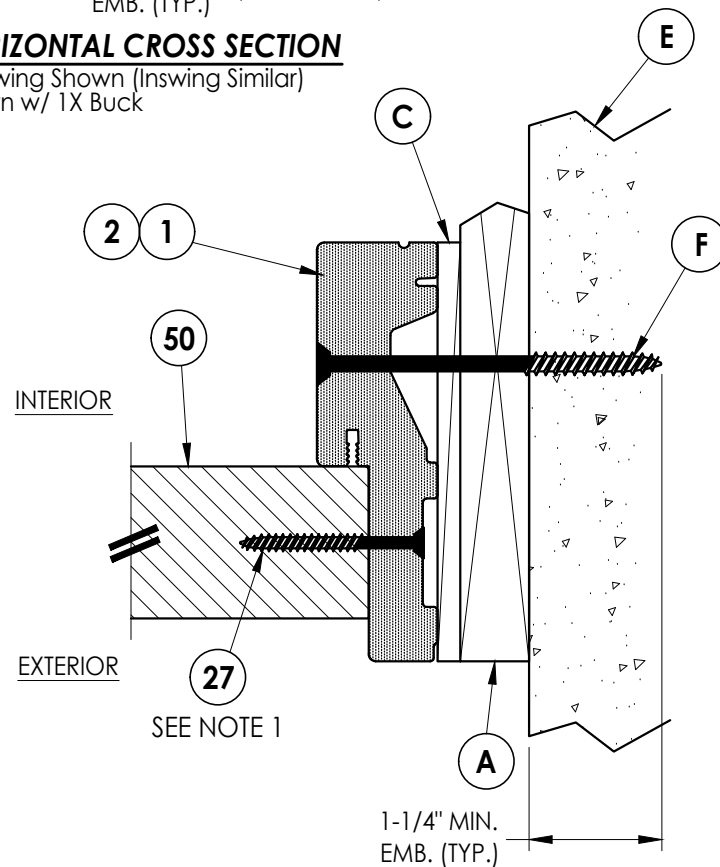
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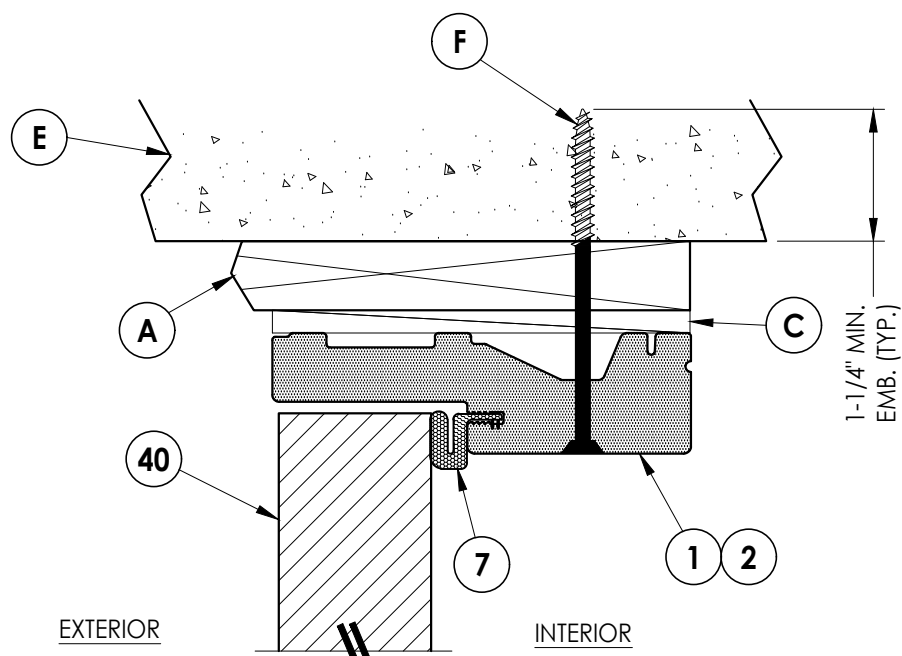
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7 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



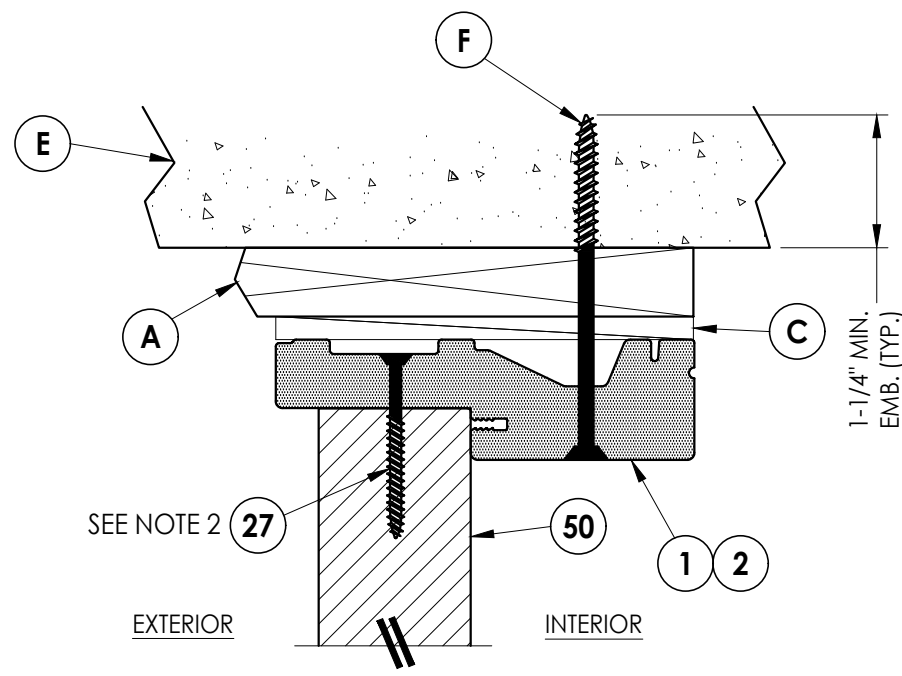
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7 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



3
7 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



4
7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



5
7 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X 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 10" from each end (2 screws total along head & sill).

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

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

PRODUCT: TRINITY
FIBERGLASS PATIO DOOR

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

NO.	DATE	REVISIONS
1	6/20/25	ADD GLAZING DETAIL G3
LFS		BY

DATE: 1/30/25

SCALE: N.T.S.

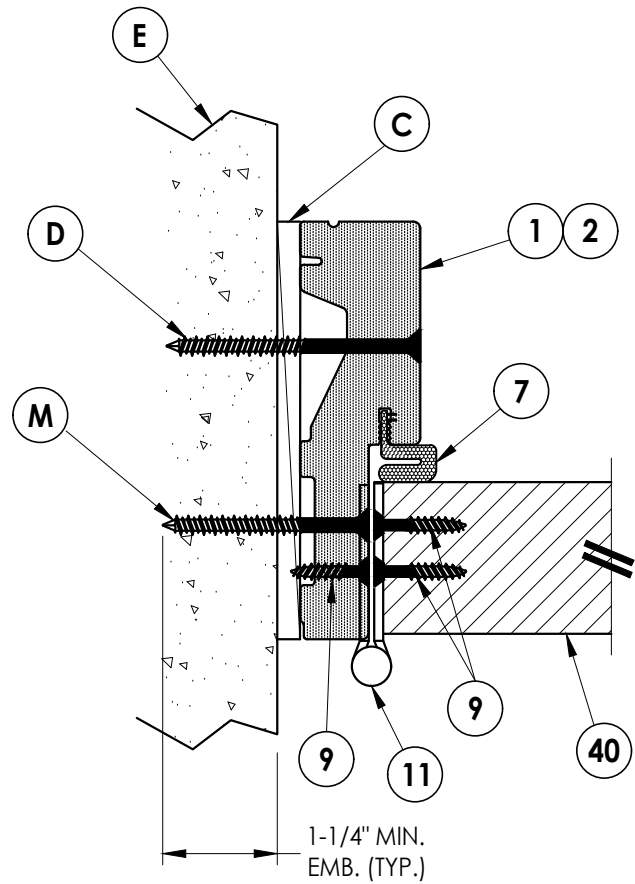
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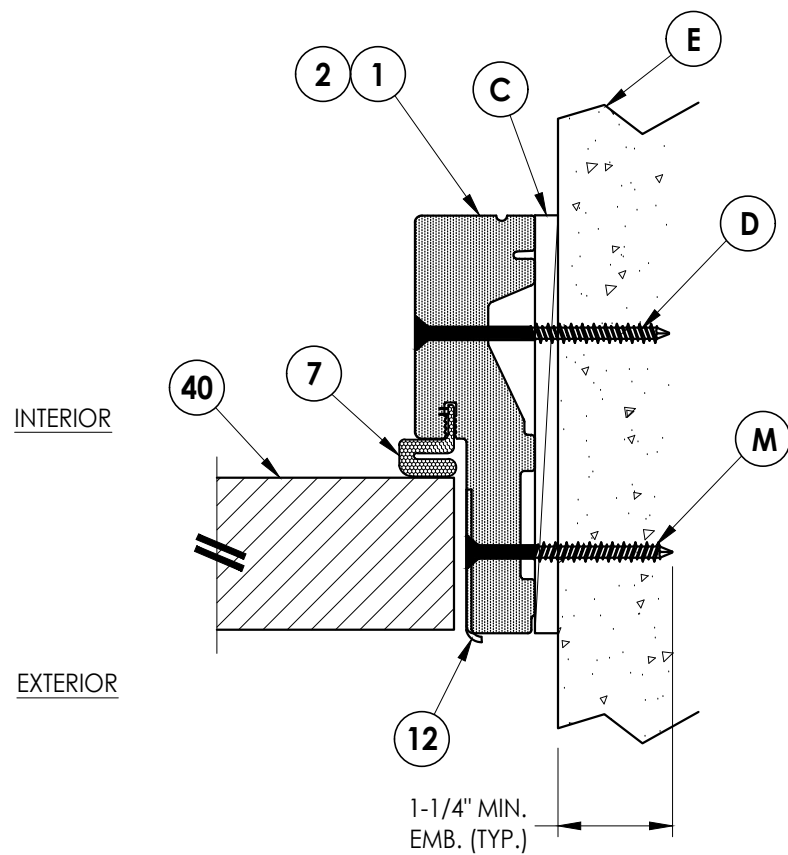
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FL-47284.6

SHEET 7 OF 12

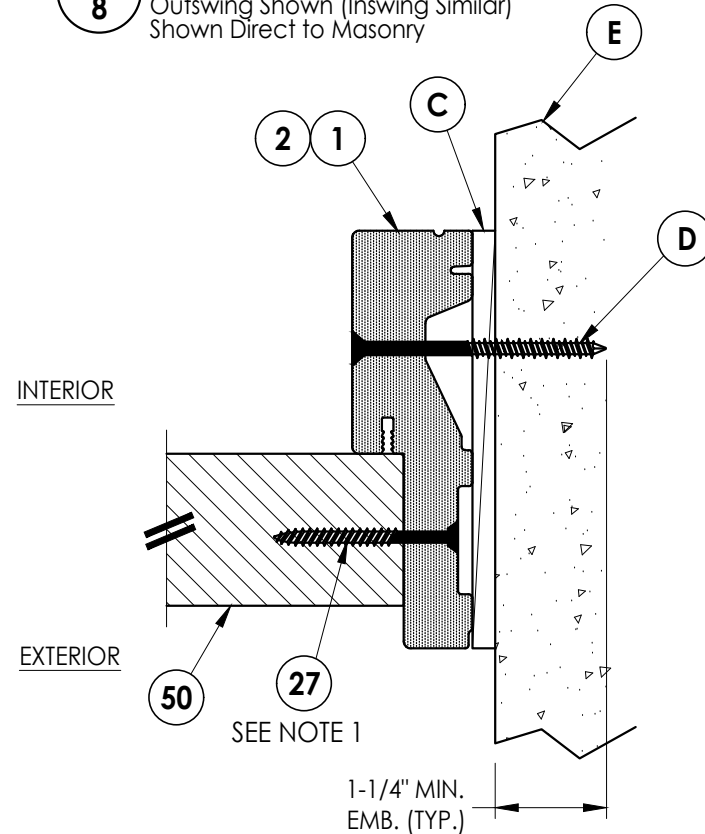
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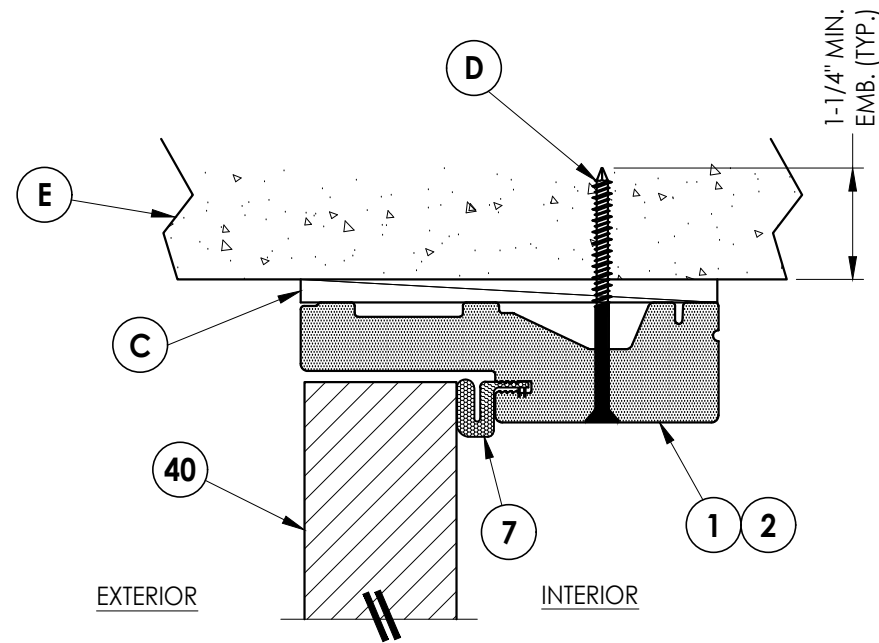
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8 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown Direct to Masonry



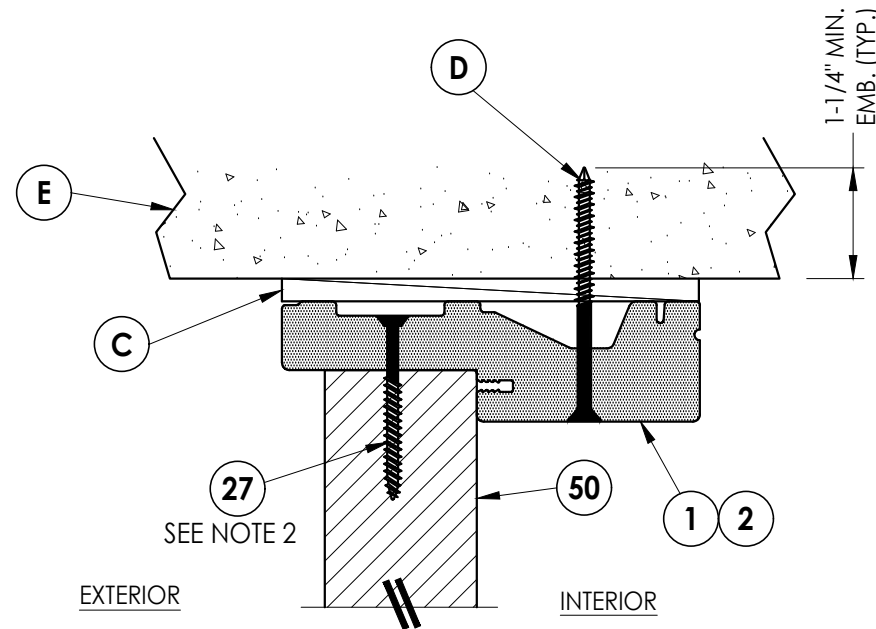
2
8 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown Direct to Masonry



3
8 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown Direct to Masonry



4
8 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown Direct to Masonry



5
8 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown Direct to Masonry

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 10" from each end (2 screws total along head & sill).

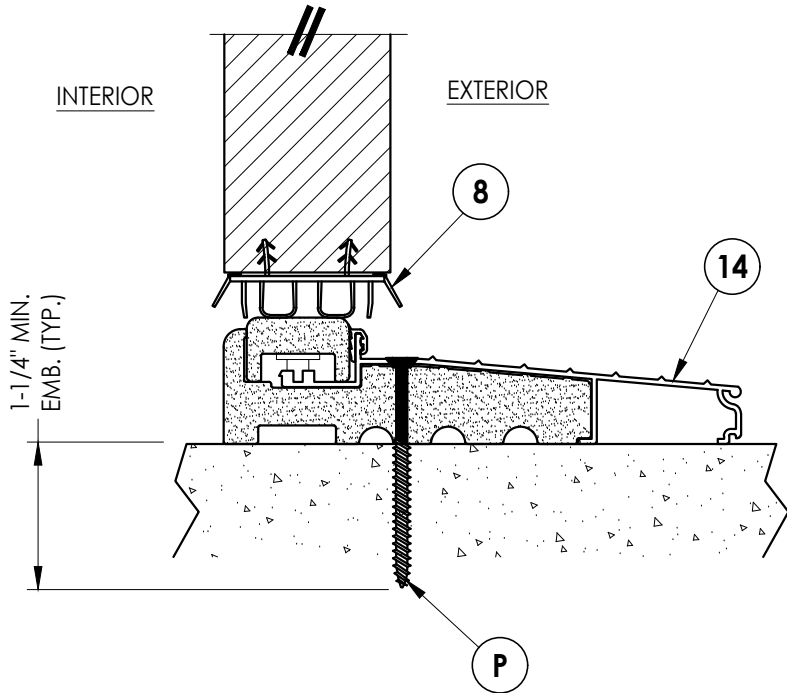
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

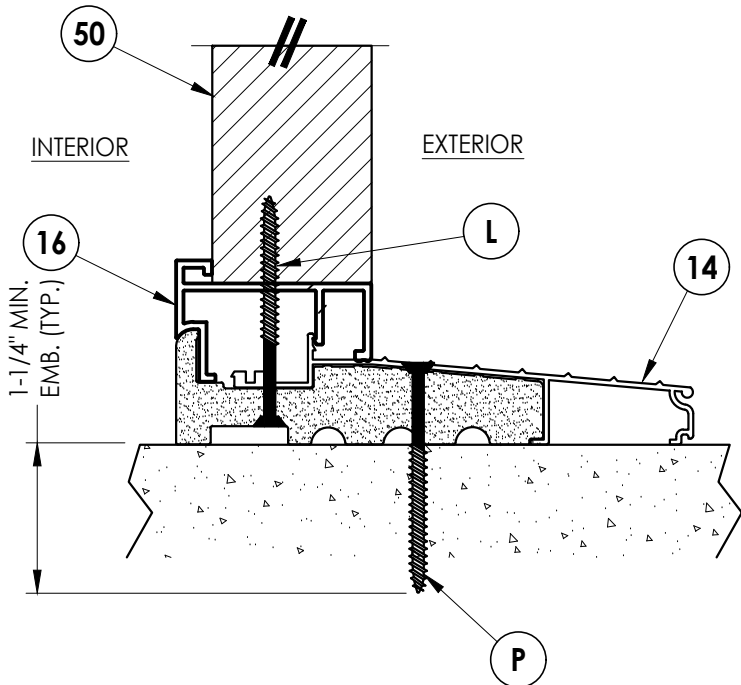
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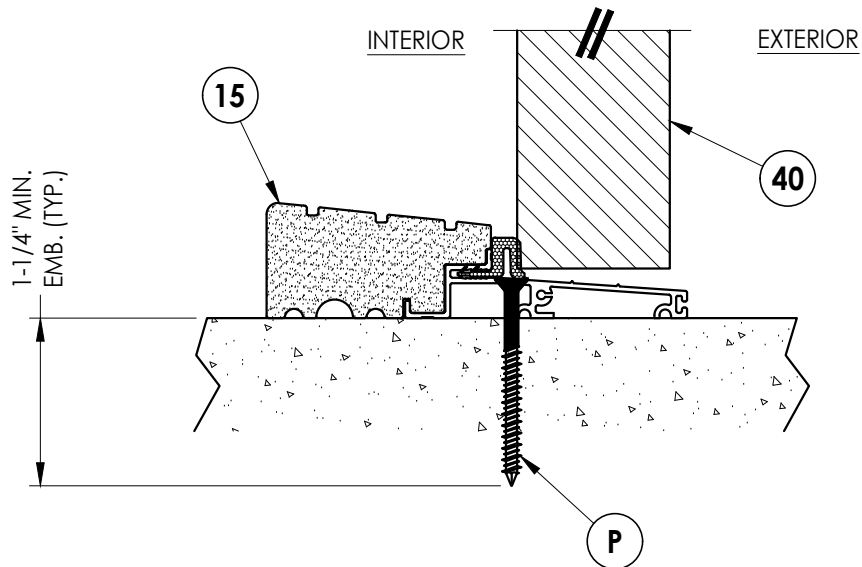
Note:
1. Sidelite assembly screws located 10" from each end (2 screws total along head & sill).



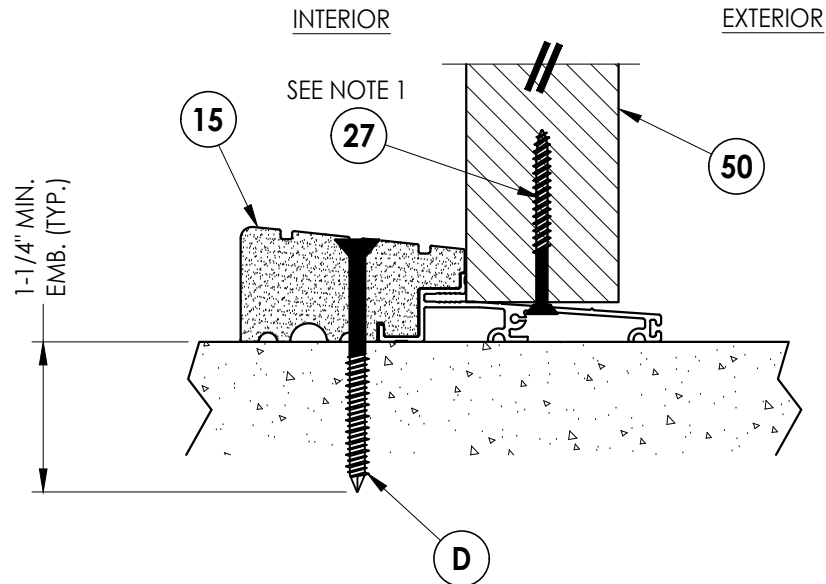
1
9 VERTICAL CROSS SECTION
Inswing Sill



3
9 VERTICAL CROSS SECTION
Inswing Sill



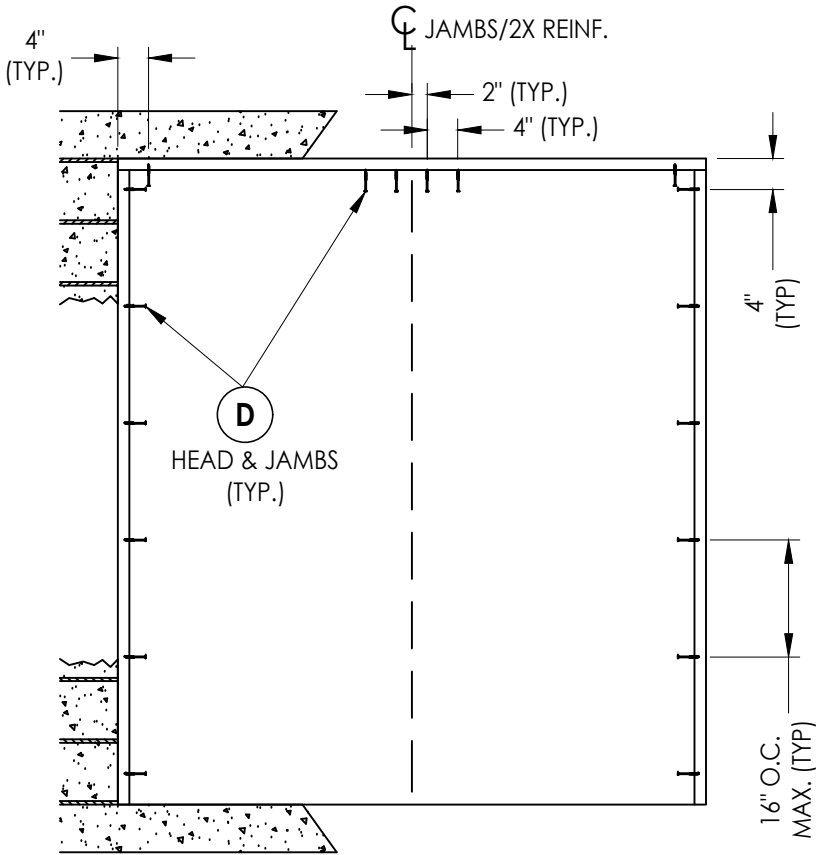
2
9 VERTICAL CROSS SECTION
Outswing Sill



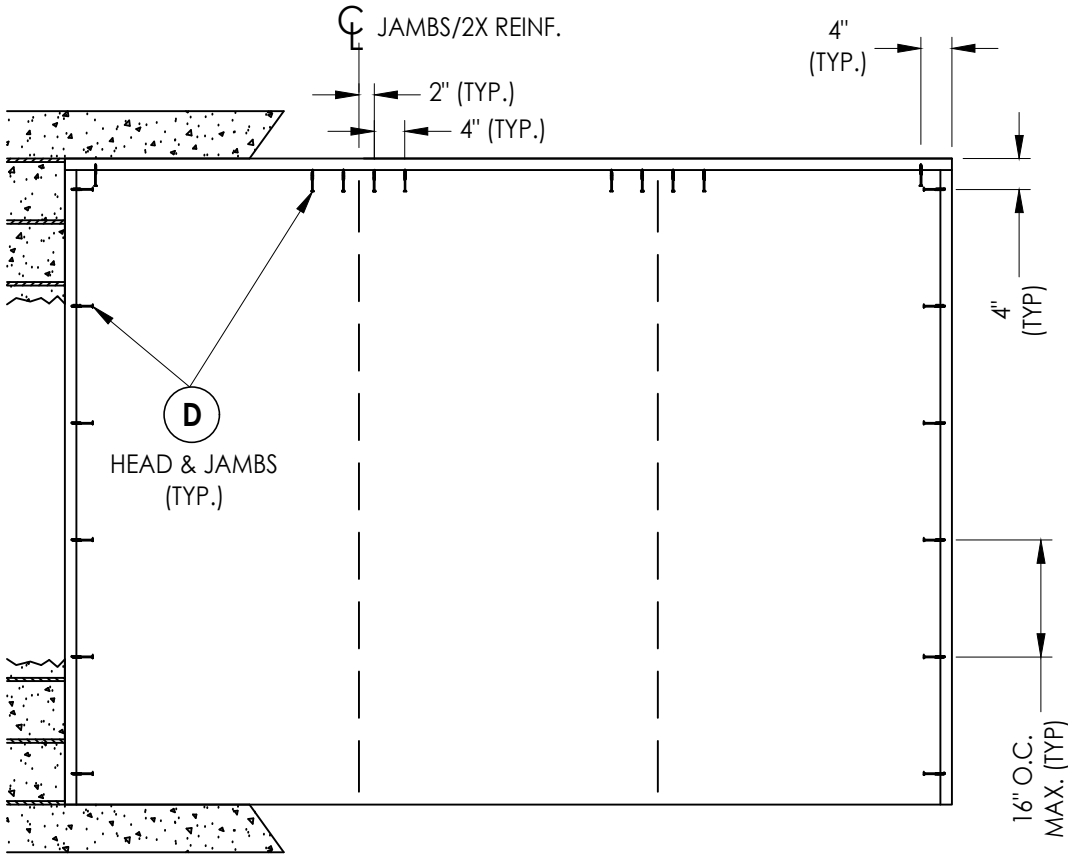
4
9 VERTICAL CROSS SECTION
Outswing Sill

DATE: 1/30/25		NO. 1		6/20/25		ADD GLAZING DETAIL G3		LFS	
SCALE: N.T.S.		NO.		DATE				BY	
DWG. BY: RW									
CHK. BY: LFS									
DRAWING NO.: FL-47284.6									
SHEET 9 OF 12									

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XO, OX

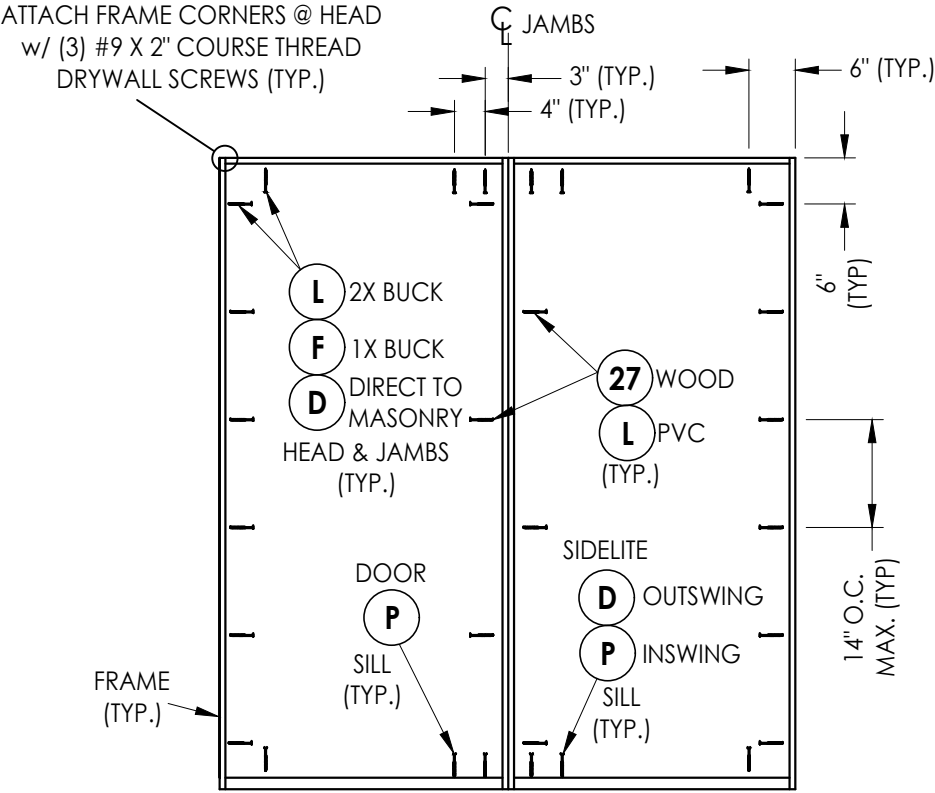


OXO, OOX, XOO

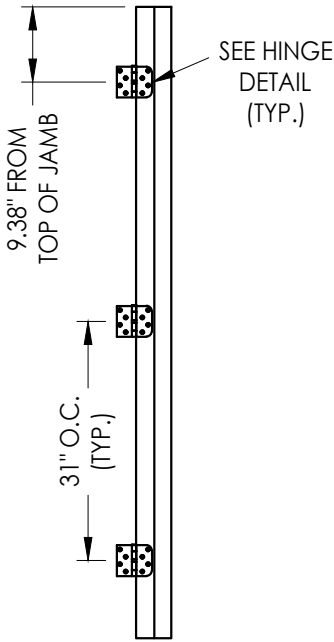
2X BUCK ANCHORING

DATE: 1/30/25		SHEET 10 OF 12	
SCALE: N.T.S.		DRAWING NO.: FL-47284.6	
DWG. BY: RW		CHK. BY: LFS	
1		NO.	
6/20/25		DATE	
ADD GLAZING DETAIL G3		LFS	
		BY	
		REVISIONS	
PRODUCT: TRINITY		PART OR ASSEMBLY:	
FIBERGLASS PATIO DOOR		BUCK ANCHORING	
Documents Prepared By:		R ^W BUILDING CONSULTANTS, INC.	
Lyndon F. Schmidt		P.O. Box 230, Valrico, FL 33595	
P.E. No. 43409		Phone No.: 813.659.9197	
		FBPE Registry No. 9813	

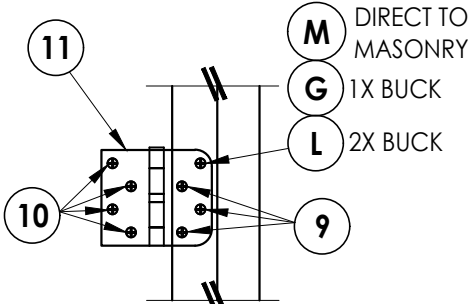
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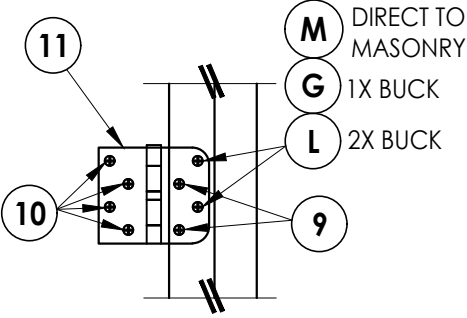
XO, OX



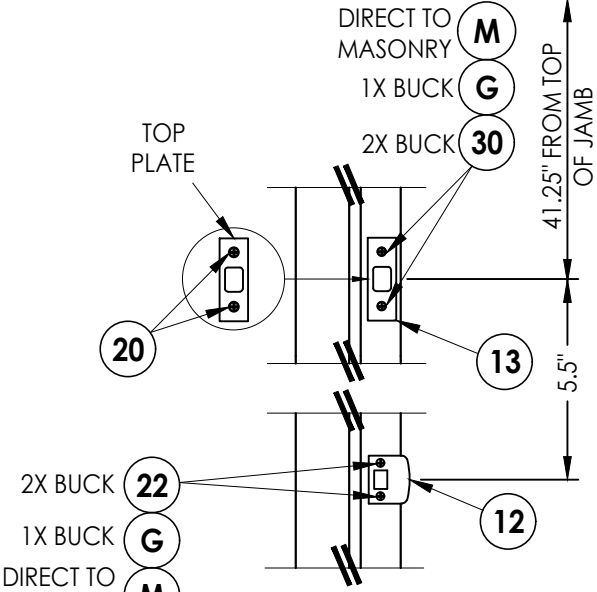
HINGE JAMB



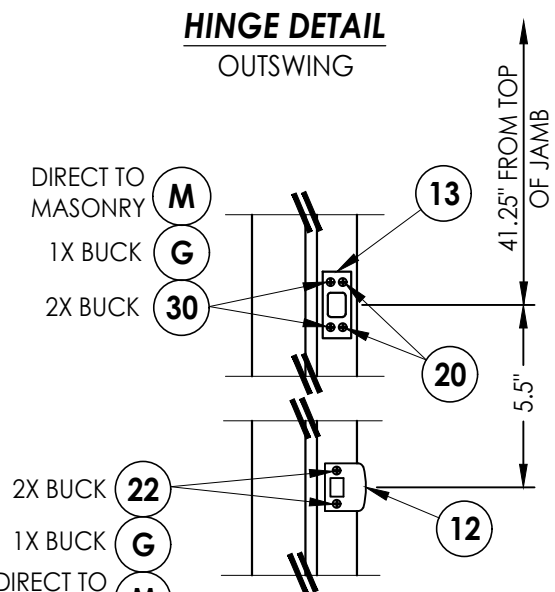
HINGE DETAIL
INSWING



HINGE DETAIL
OUTSWING

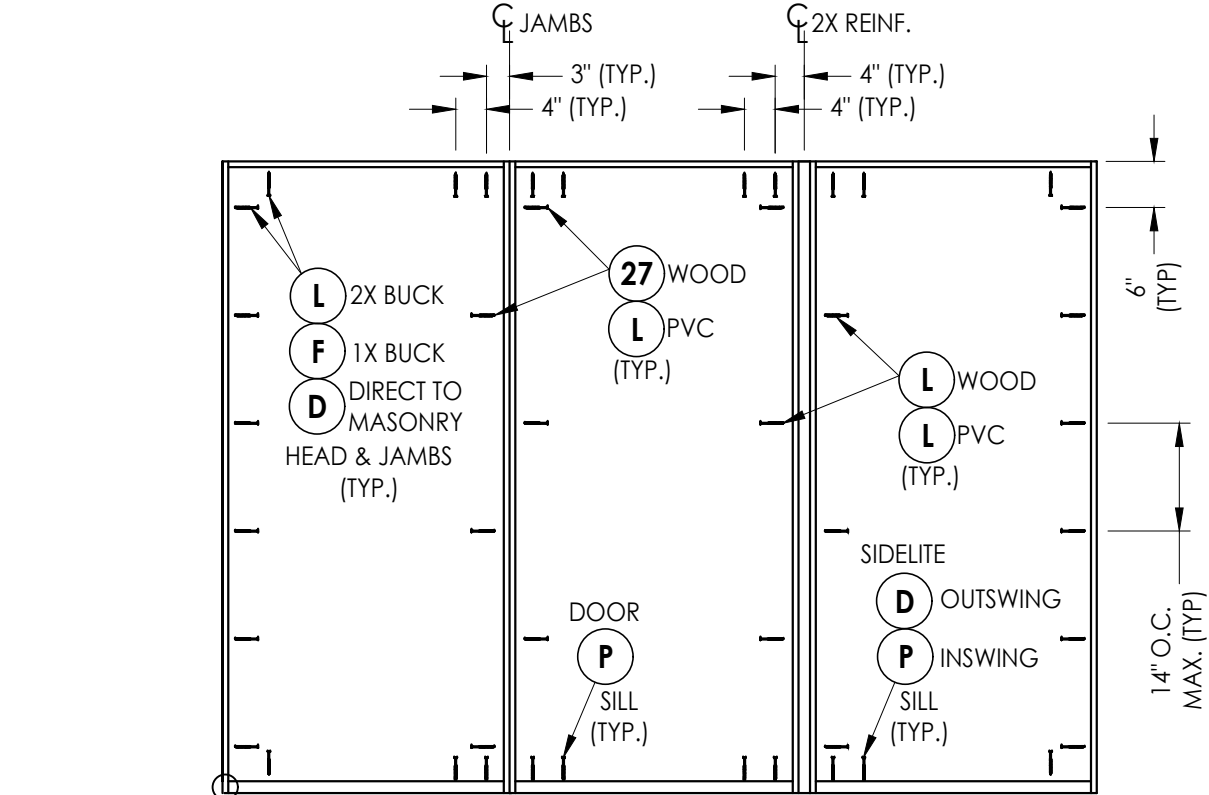


STRIKE PLATE DETAIL
SCHLAGE LOCKSET



STRIKE PLATE DETAIL
KWIKSET LOCKSET

HARDWARE DETAILS



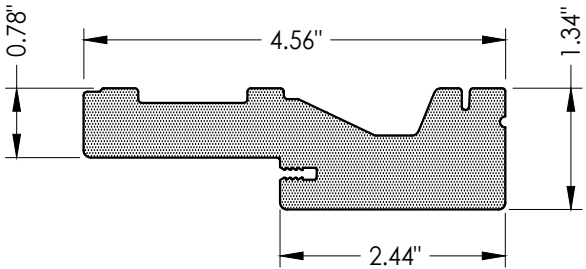
OXO, OOX, XOO

FRAME ANCHORING

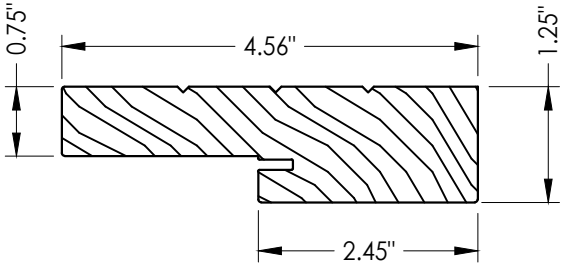
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: TRINITY FIBERGLASS PATIO DOOR				PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS			
DATE: 1/30/25				RW			
SCALE: N.T.S.				LFS			
DWG. BY:				BY			
CHK. BY:				REVISIONS			
DRAWING NO.: FL-47284.6				NO. DATE			
SHEET 11 OF 12				1 6/20/25 ADD GLAZING DETAIL G3			

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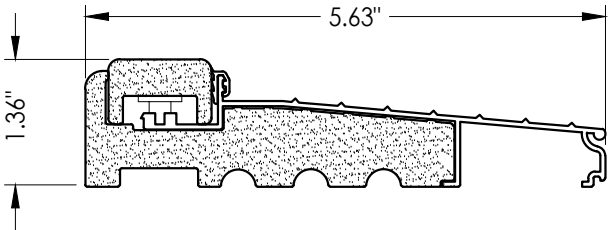
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" 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
X	2X REINFORCEMENT (SG = 0.55)	WOOD
1	PVC JAMB	PVC
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
20	#8 X 1/2" PFH WOOD SCREW	STEEL
22	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	#10 X 2" PFH SMS	STEEL
30	#12 X 2-1/2" PFH WOOD SCREW	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-



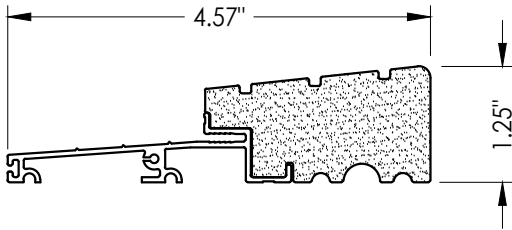
1 PVC JAMB



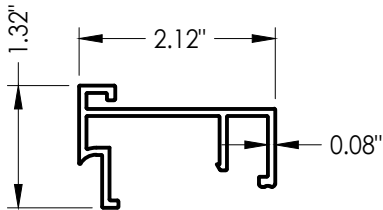
2 WOOD JAMB
FINGER JOINTED PINE



14 INSWING THRESHOLD



15 OUTSWING THRESHOLD



16 INSWING SIDELITE ADAPTER

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 BULDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

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.

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

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
1	6/20/25	ADD GLAZING DETAIL G3
LFS	BY	

DATE: 1/30/25

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:
FL-47284.6

SHEET 12 OF 12