

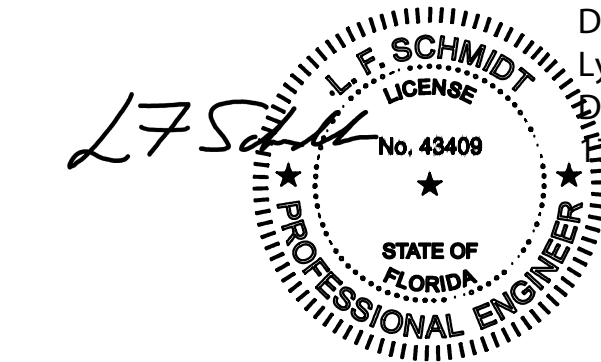


OPAQUE FIBERGLASS ENTRY DOORS
SINGLE
INSWING / OUTSWING
"NON-IMPACT"

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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
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.

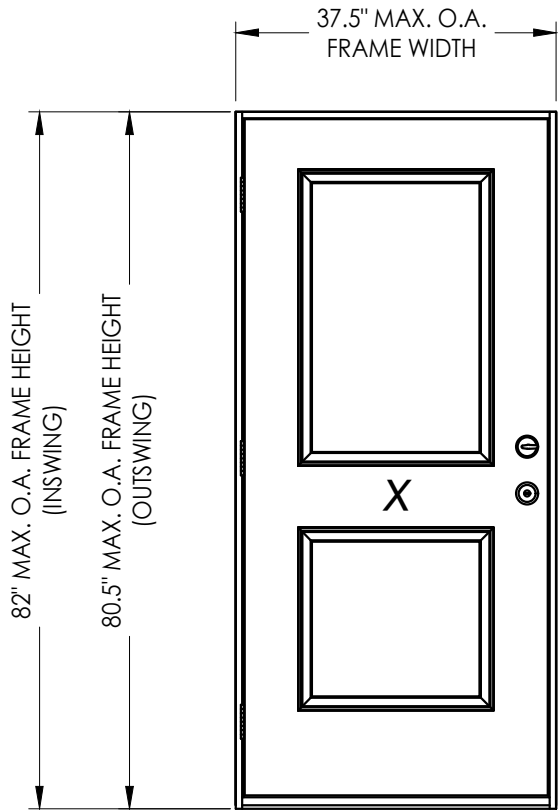
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1	Typical Elevations, Design Pressures & General Notes
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4	Horizontal & Vertical Cross Sections (1X Buck)
5	Horizontal & Vertical Cross Sections (Direct to Masonry)
6	Vertical Cross Sections (Thresholds)
7	Buck & Frame Anchoring
8	Bill of Materials & Components



Digitally signed by
Lyndon F Schmidt
Date: 2025.04.23
17:21:45 -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



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)		DESIGN PRESSURE (PSF)	
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.5" x 82.0"	+65.0	-70.0	+65.0	-65.0

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

TRIMLITE
FIBERGLASS DOORS

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

REVISIONS

1	4/21/25	REVISE FOR NEW TESTING	LFS	BY
NO.	DATE			

DATE: 6/18/24
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-46831.1
SHEET 1 OF 8

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

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0.4"

3.75"

1.75"

COMPOSITE CAP

HINGE STILE (LVL)

INTERIOR

0.4"

3.75"

COMPOSITE CAP

LATCH STILE (LVL)

EXTERIOR

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

The diagrams illustrate the internal structure of a composite panel. The top diagram shows the interior side, featuring a composite cap, top rail (LVL), fiberglass skin, and foam core. The bottom diagram shows the exterior side, featuring foam core, bottom rail reinforcement (LVL), bottom rail (comp.), and a 0.7" thick layer. Dimensions are provided for various layers: 0.4" for the composite cap, 1.15" for the top rail, 1.15" for the fiberglass skin, and 0.7" for the bottom rail reinforcement.

Interior View:

- COMPOSITE CAP
- TOP RAIL (LVL)
- FIBERGLASS SKIN
- Dimensions: 0.4", 1.15"

Exterior View:

- FOAM CORE
- BOTTOM RAIL REINFORCEMENT (LVL)
- BOTTOM RAIL (COMP.)
- Dimensions: 1.15", 0.7"

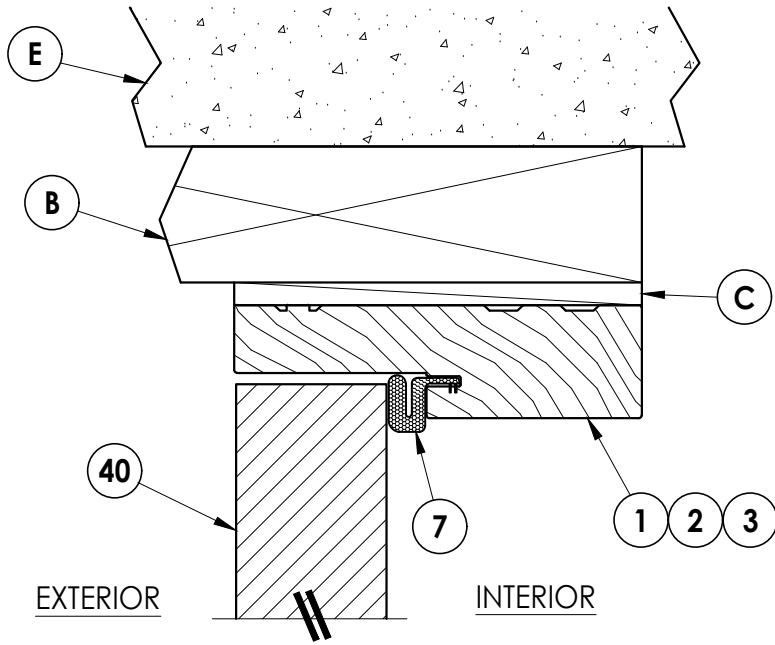
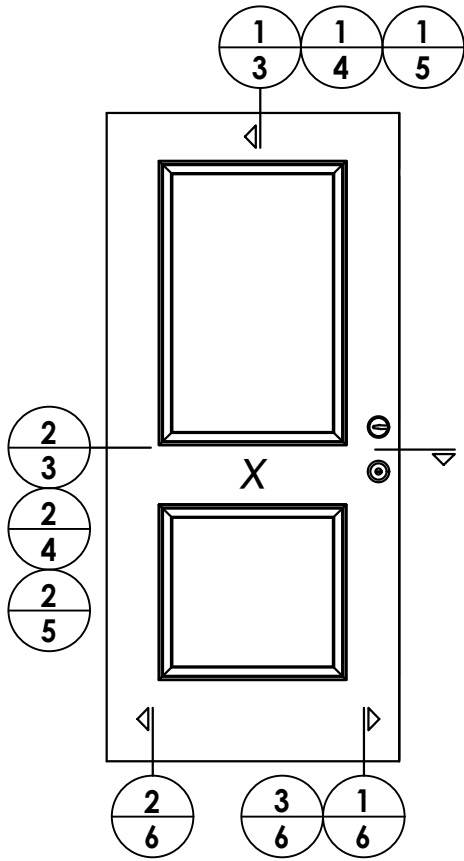
FIBERGLASS DOOR SKIN: MIN. 0.080" THK.
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)

[illegible]

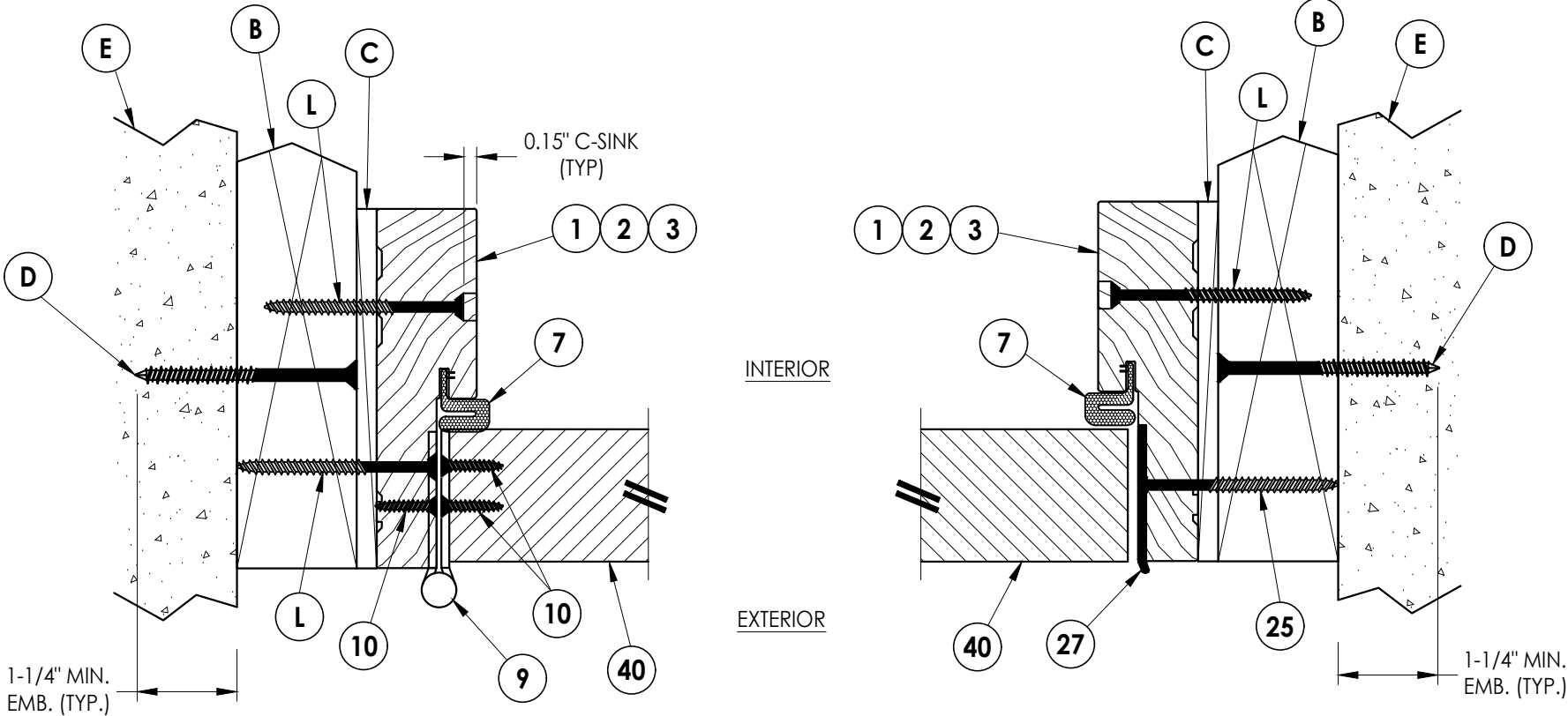
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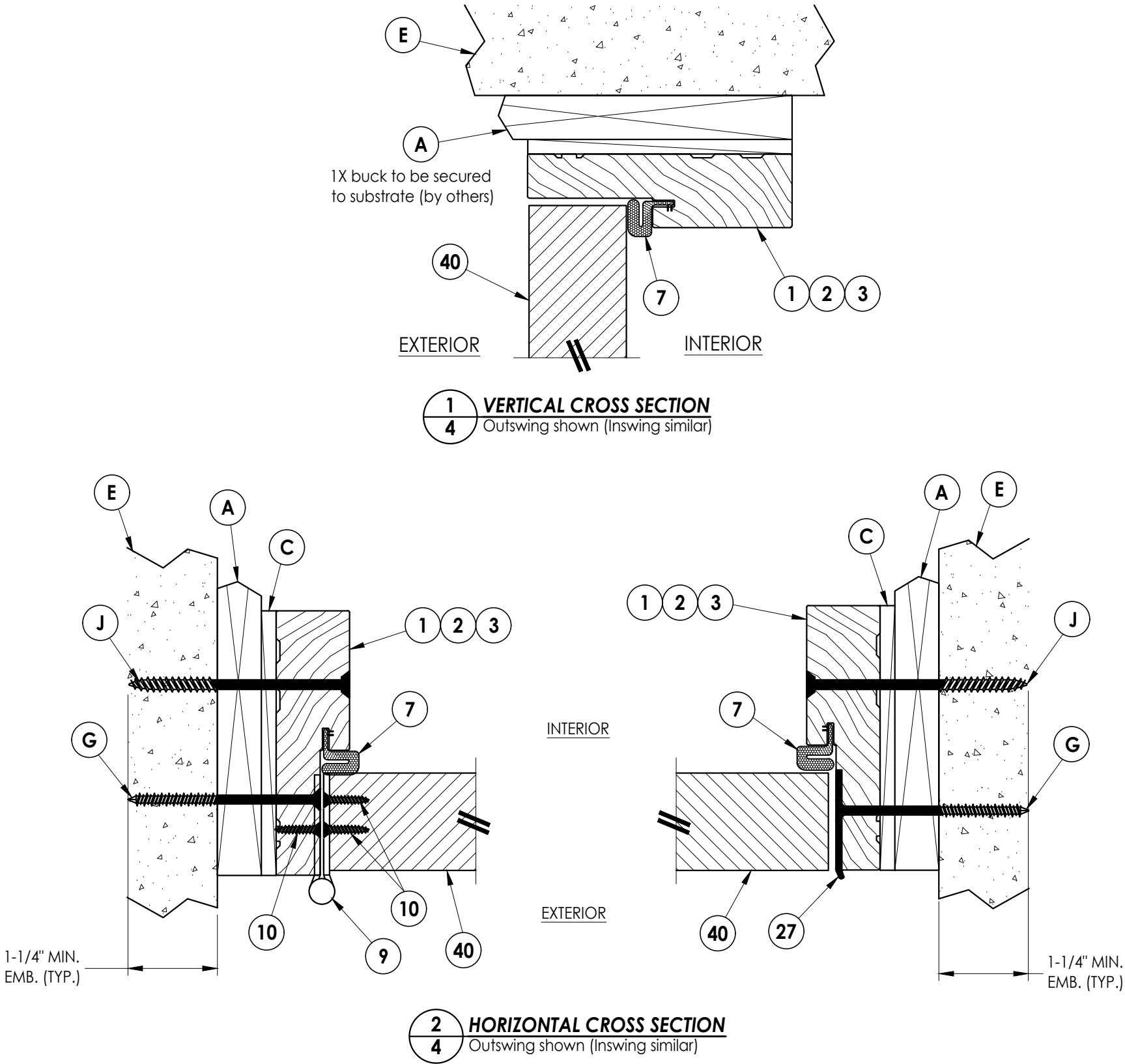
1 VERTICAL CROSS SECTION
Outswing shown (Inswing similar)



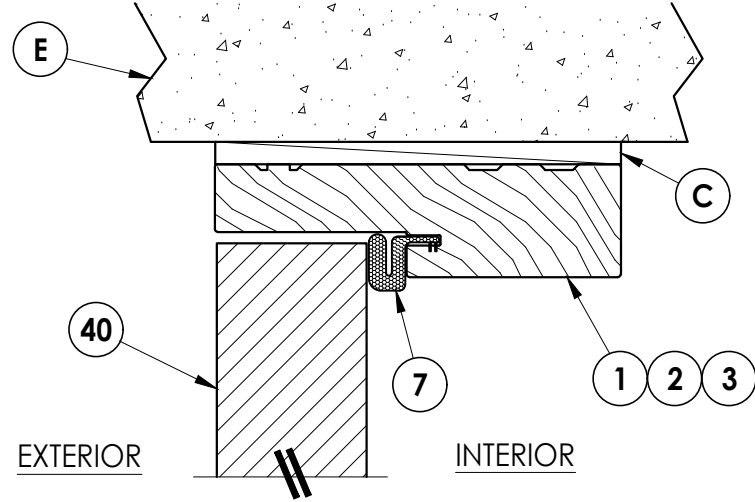
2 HORIZONTAL CROSS SECTION
Outswing shown (Inswing similar)

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PRODUCT: TRIMLITE FIBERGLASS DOORS				PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)			

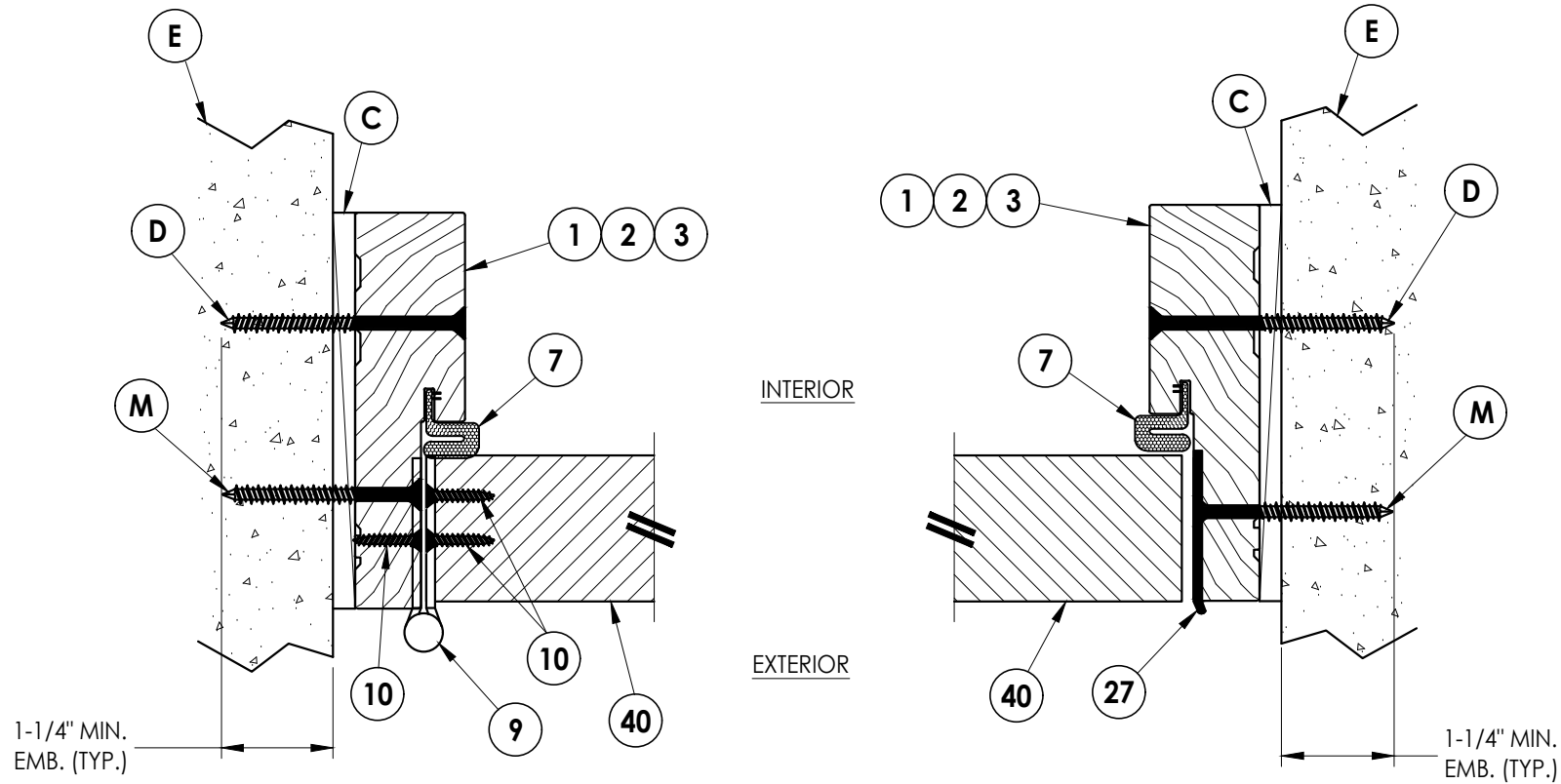
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PRODUCT: TRIMLITE FIBERGLASS DOORS		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
		REVISIONS	
		NO.	DATE
		1	4/21/25
		REVISION	FOR NEW TESTING
		BY	LFS
DATE: 6/18/24			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-46831.1			
SHEET 4 OF 8			



1 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)



2 HORIZONTAL CROSS SECTION

5 Outswing shown (Inswing similar)

DATE: 6/18/24		PRODUCT: TRIMLITE FIBERGLASS DOORS	
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-46831.1			
SHEET 5 OF 8			

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EXTERIOR

INTERIOR

40

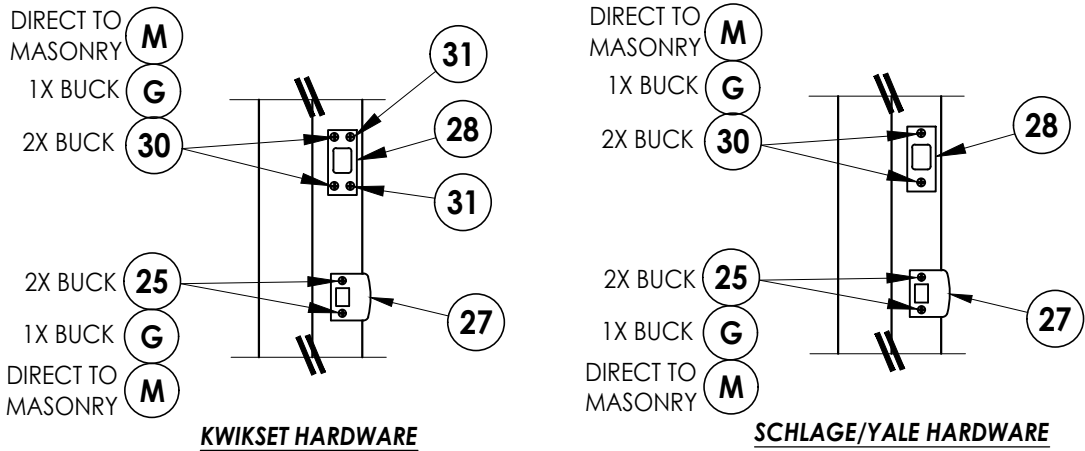
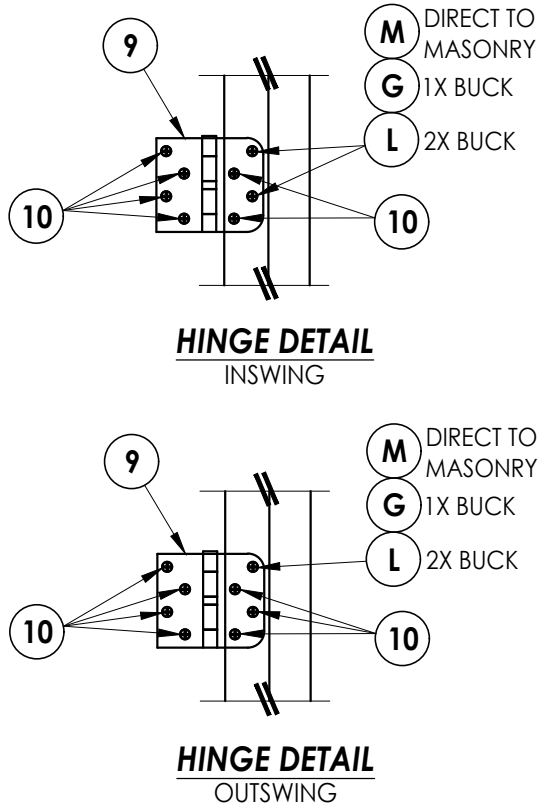
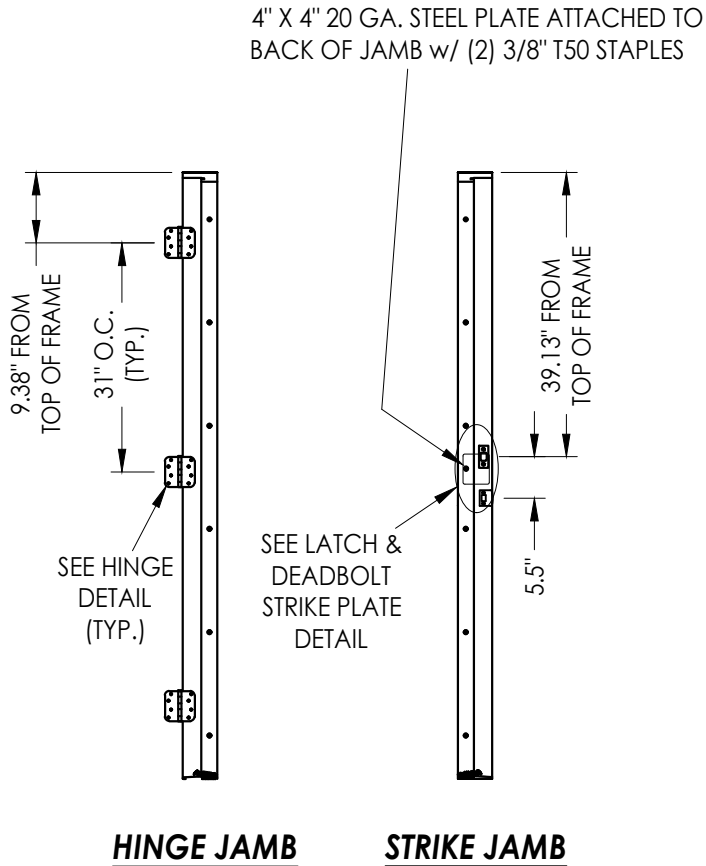
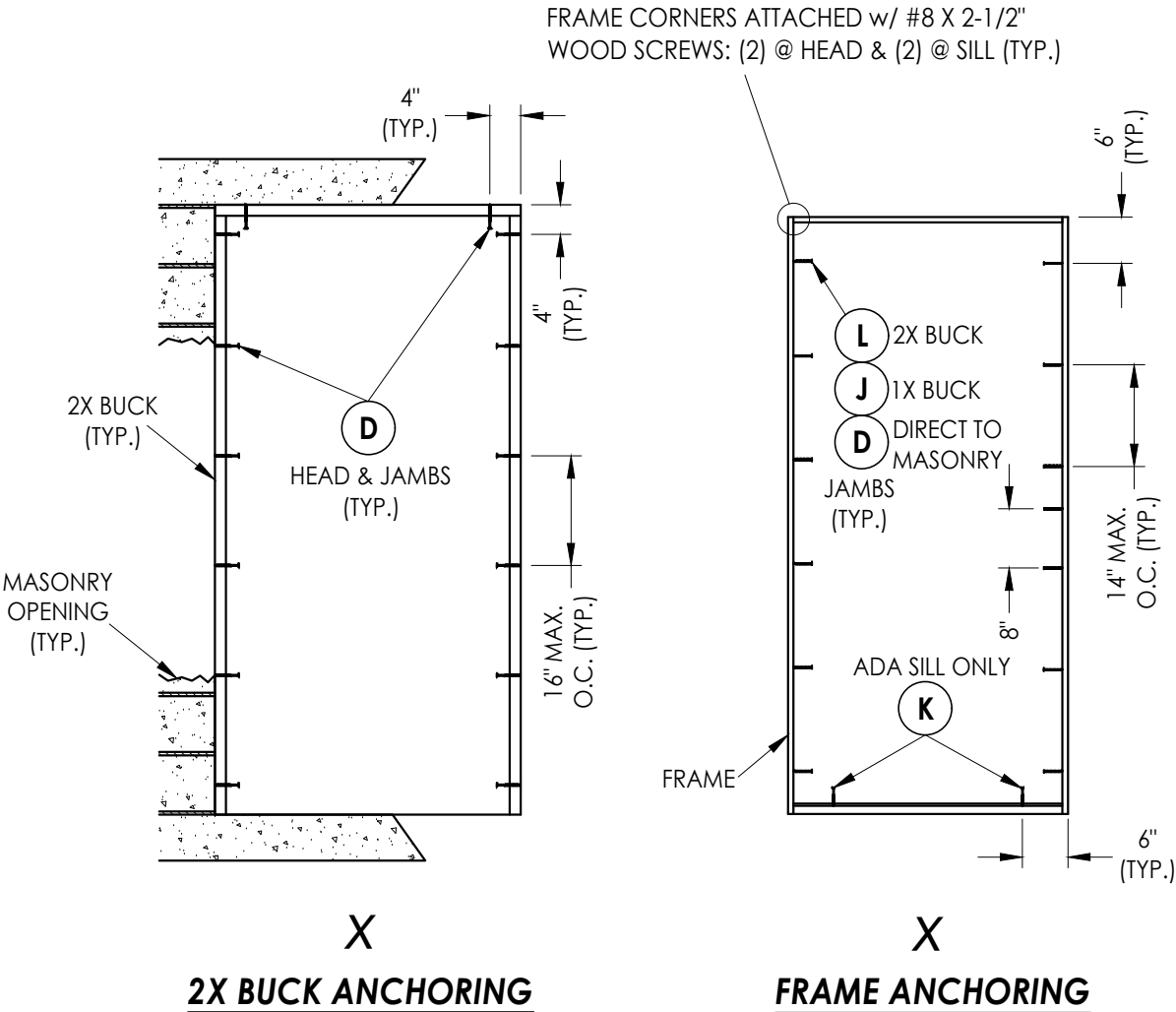
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E

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LATCH & DEADBOLT STRIKE PLATE DETAILS

HARDWARE DETAILS

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PRODUCT: TRIMLITE FIBERGLASS DOORS				PART OR ASSEMBLY: BUCK & FRAME ANCHORING & HARDWARE DETAILS			
						LFS	BY
DATE: 6/18/24				REVISIONS			
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-46831.1							
SHEET 7 OF 8							

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 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
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/4" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" PFH ITW CONCRETE SCREW	STEEL
1	WOOD JAMB (FINGER JOINTED PINE)	WOOD
2	COMPOSITE JAMB	COMP
3	POLY FIBER JAMB	COMP
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	4" X 4" HINGE	STEEL
10	#9 X 3/4" PFH WOOD SCREW	STEEL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
15	ADA THRESHOLD	ALUM
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
30	#12 X 2-1/2" PFH WOOD SCREW	STEEL
31	#8 X 1/2" PFH WOOD SCREW	STEEL
40	DOOR PANEL	-

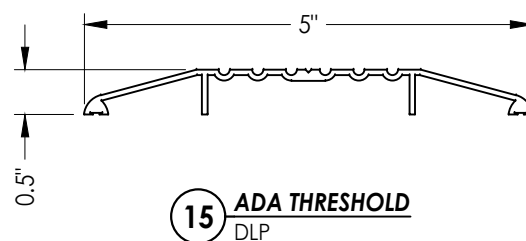
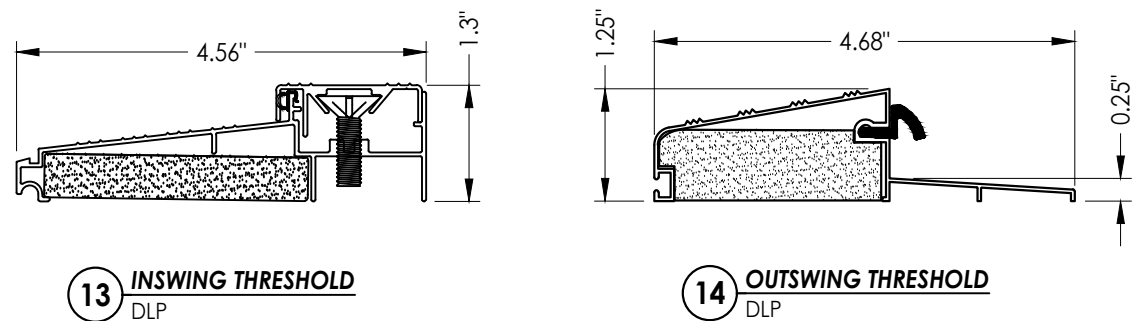
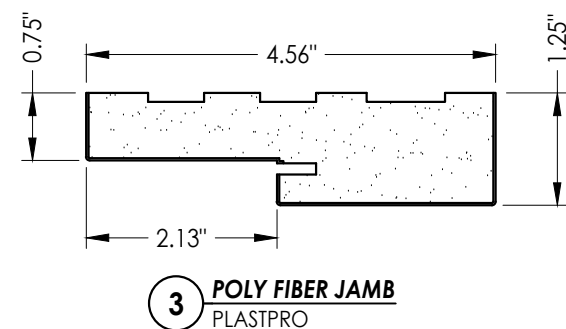
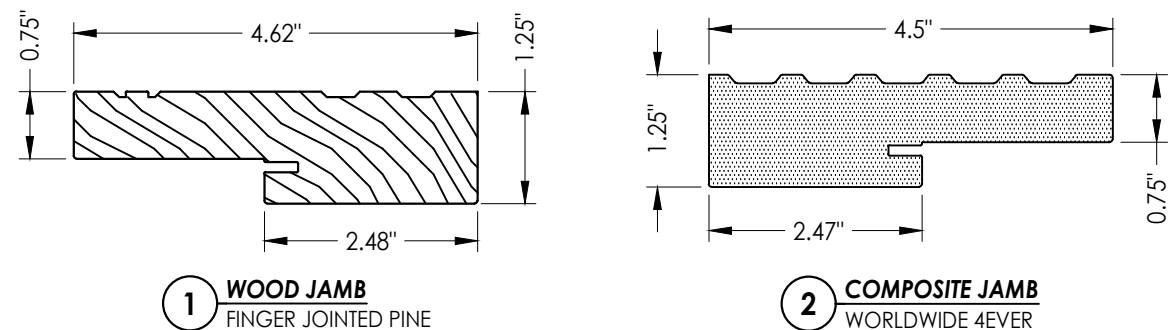
CONCRETE ANCHOR NOTES:

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 ULTRACON®	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.

[illegible]