

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.6.dwg



215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

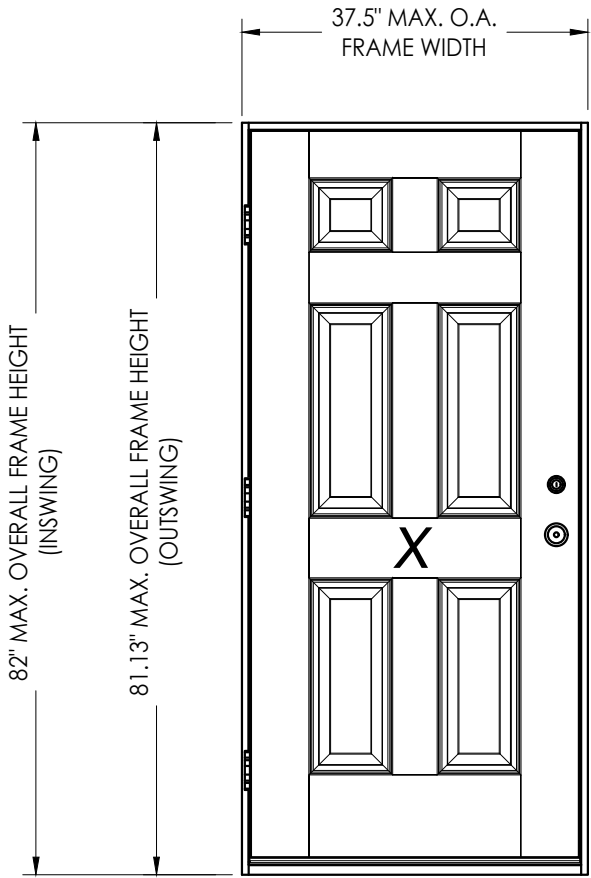
OPAQUE FIBERGLASS DOOR
SINGLE

INSWING/OUTSWING
"IMPACT"

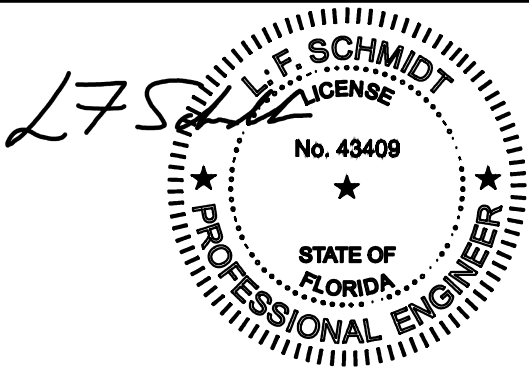
GENERAL NOTES

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 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
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Horizontal & Vertical Cross Sections (2X Buck)
4	Horizontal & Vertical Cross Sections (1X Buck)
5	Horizontal & Vertical Cross Sections (Direct to Masonry)
6	Vertical Cross Sections (Thresholds)
7	Buck & Frame Anchoring & Hardware Details
8	Bill of Materials & Components



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



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

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

ODL
FIBERGLASS DOOR

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

12/04/24

ADD ALT. JAMBS & THRESHOLDS

NO. 1

DATE

BY

REVISIONS

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

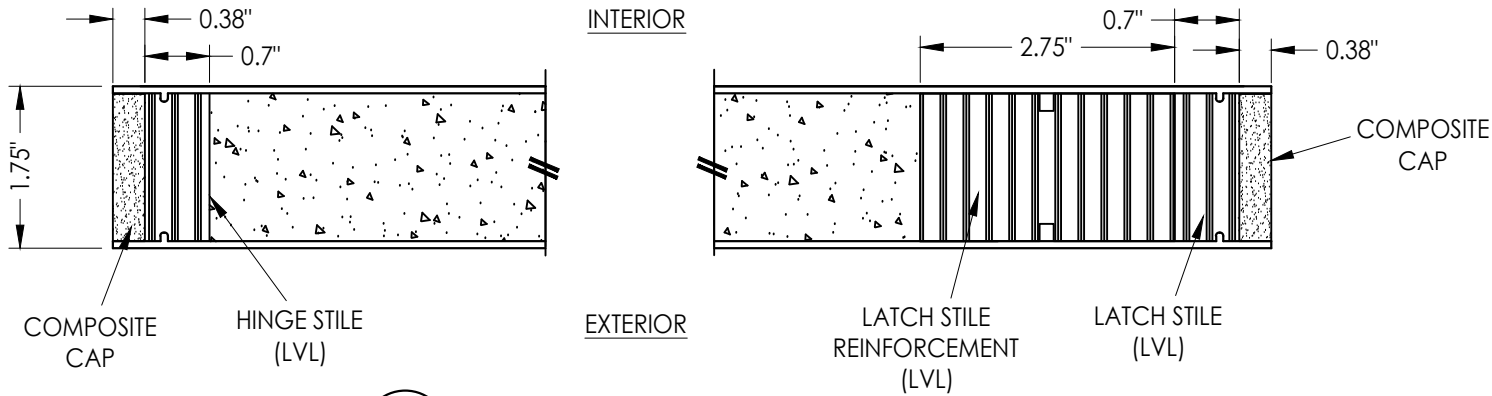
CHK. BY: RW

DRAWING NO.: FL-46116.6

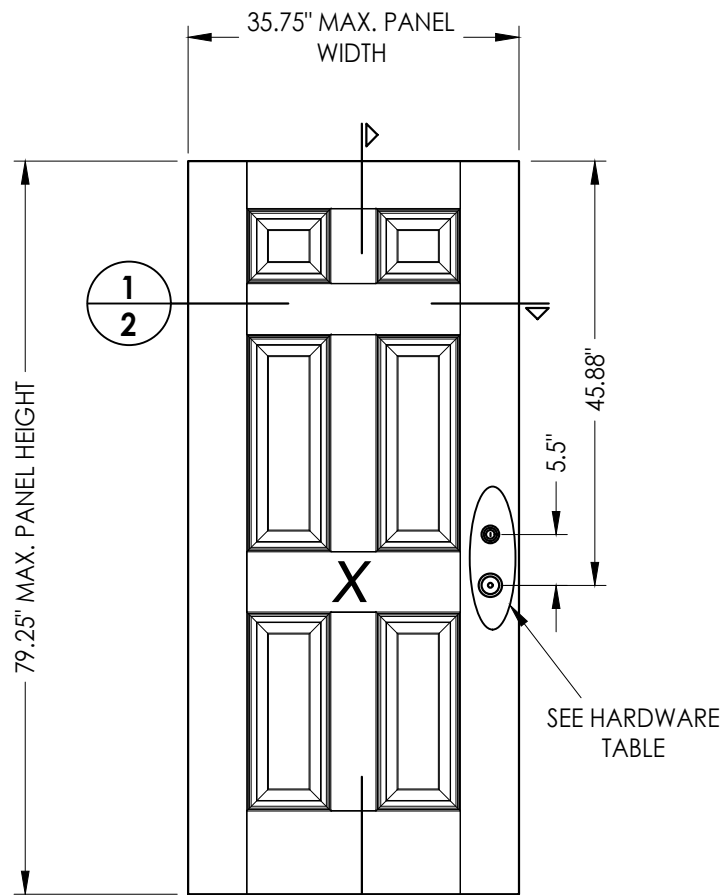
SHEET 1 OF 8

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

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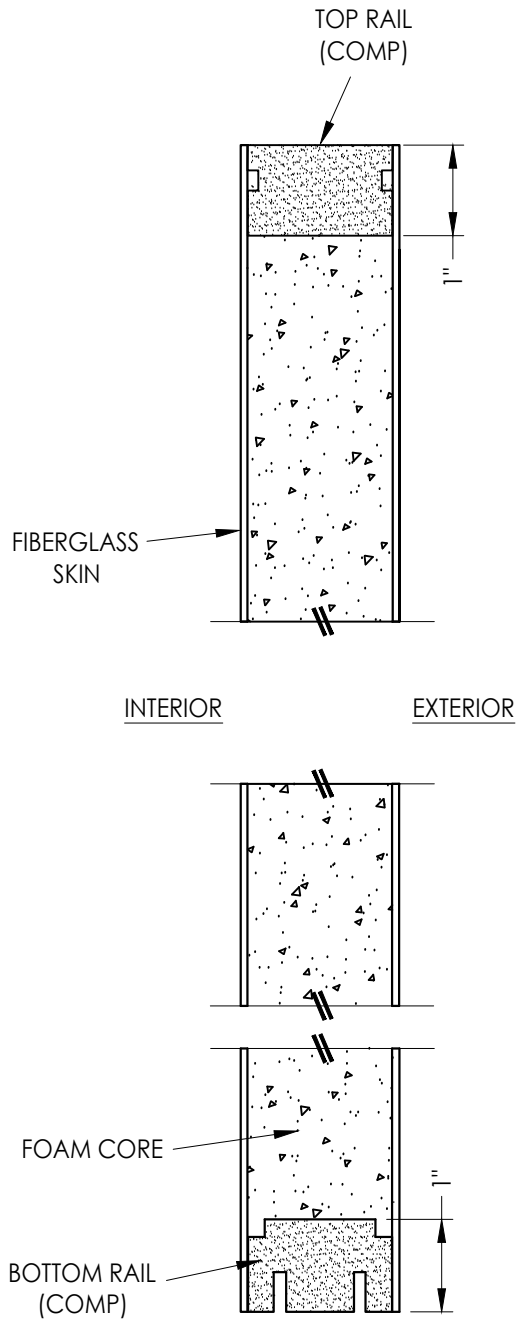
1
2 **HORIZONTAL CROSS SECTION**



2
2 **FIBERGLASS DOOR PANEL**
ODL

FIBERGLASS SKIN: 0.070" MIN. THK.
FOAM CORE: POLYURETHANE (1.9 PCF MIN.)

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



2
2 **VERTICAL CROSS SECTION**

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

RW BUILDING CONSULTANTS, INC.
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FBPE Registry No. 9813

PRODUCT: ODL
FIBERGLASS DOOR

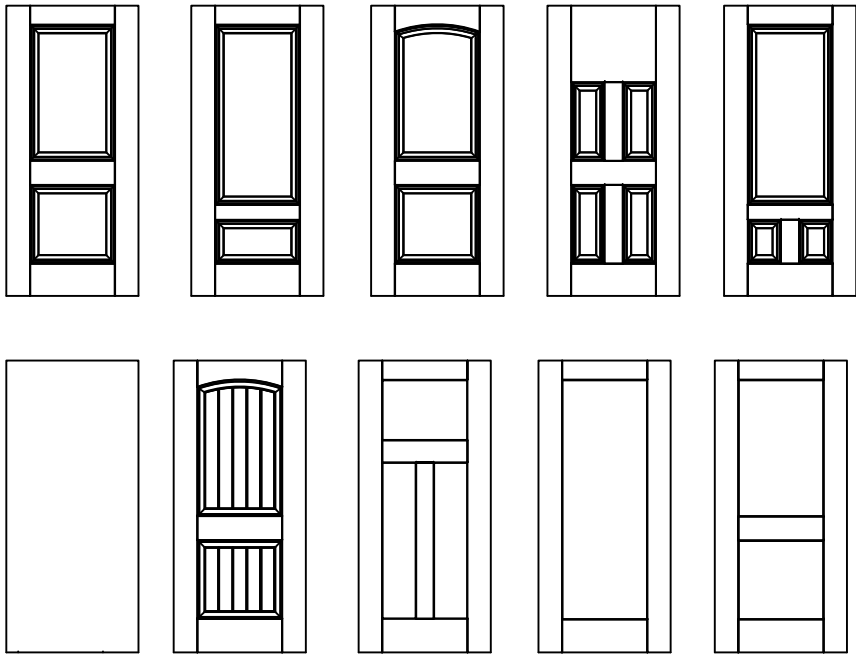
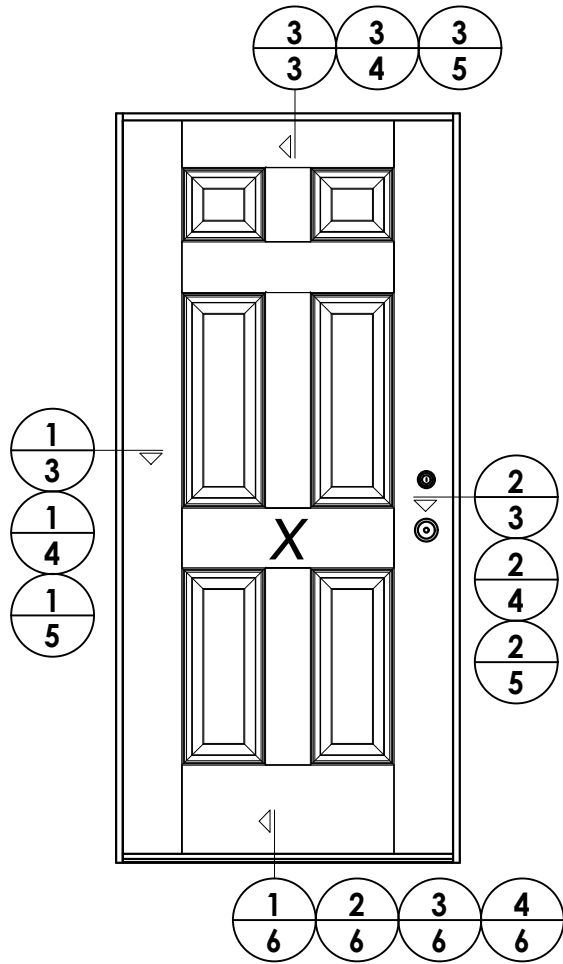
PART OR ASSEMBLY:
DOOR
PANEL DETAILS

NO.	DATE	ADD. ALT.	JAMBS & THRESHOLDS	LFS	BY
1	12/04/24				

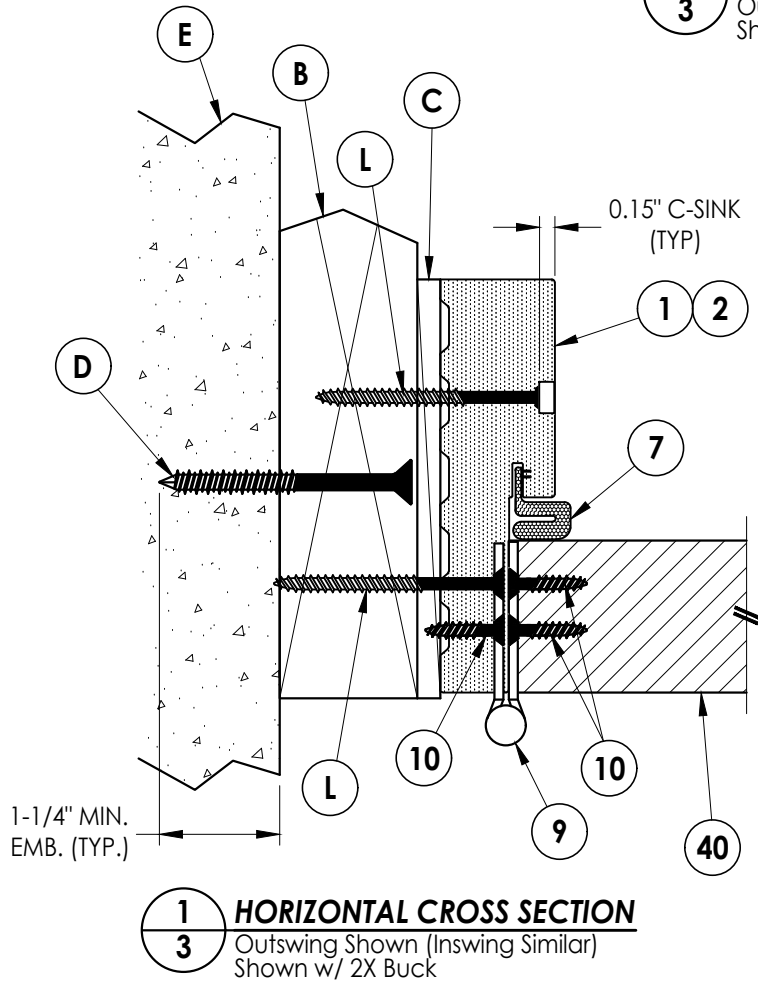
REVISIONS

DATE: 2/15/24
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-46116.6
SHEET 2 OF 8

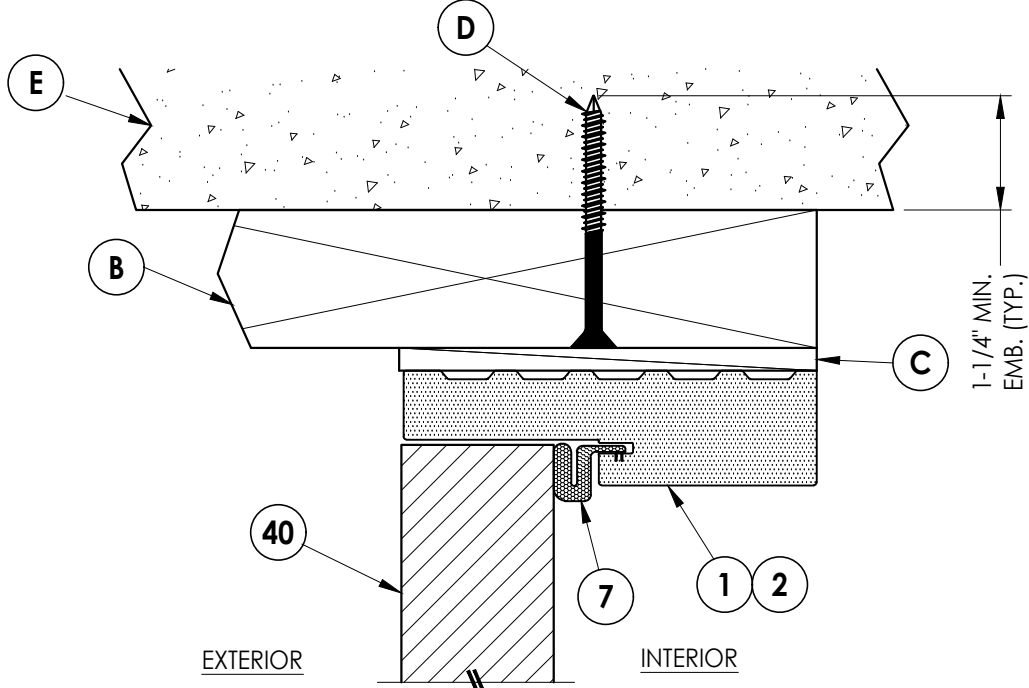
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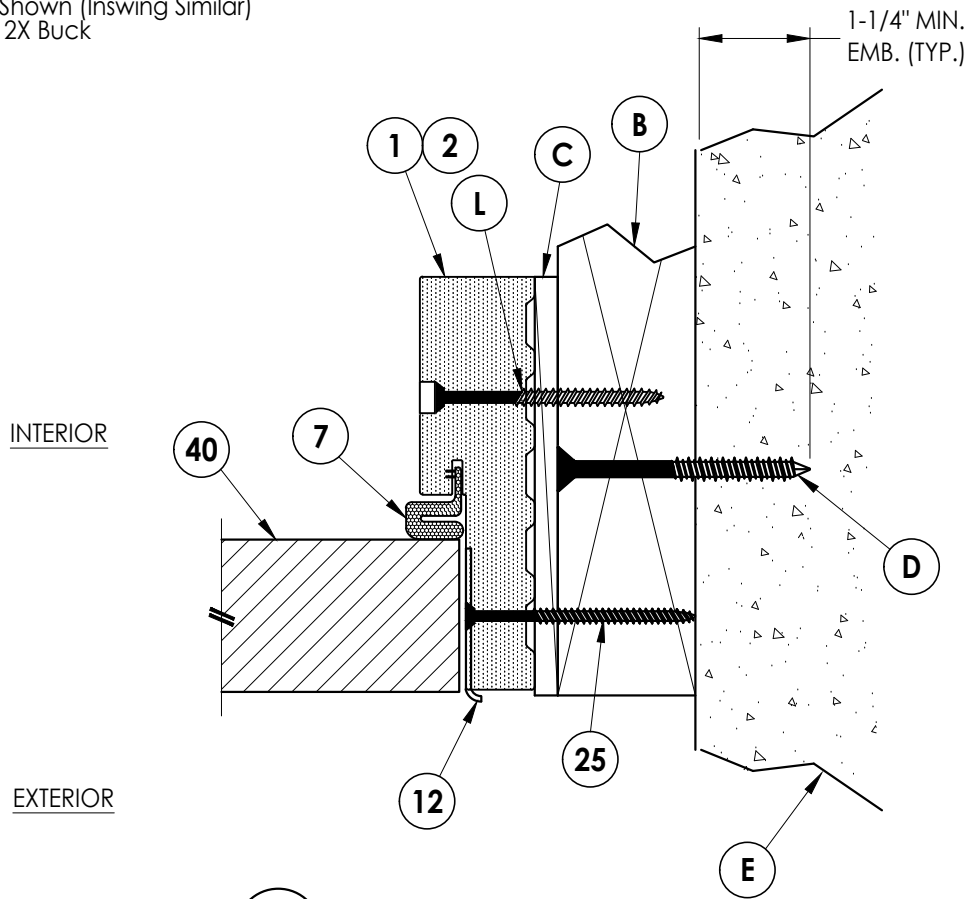
ALTERNATE DOOR PANELS



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



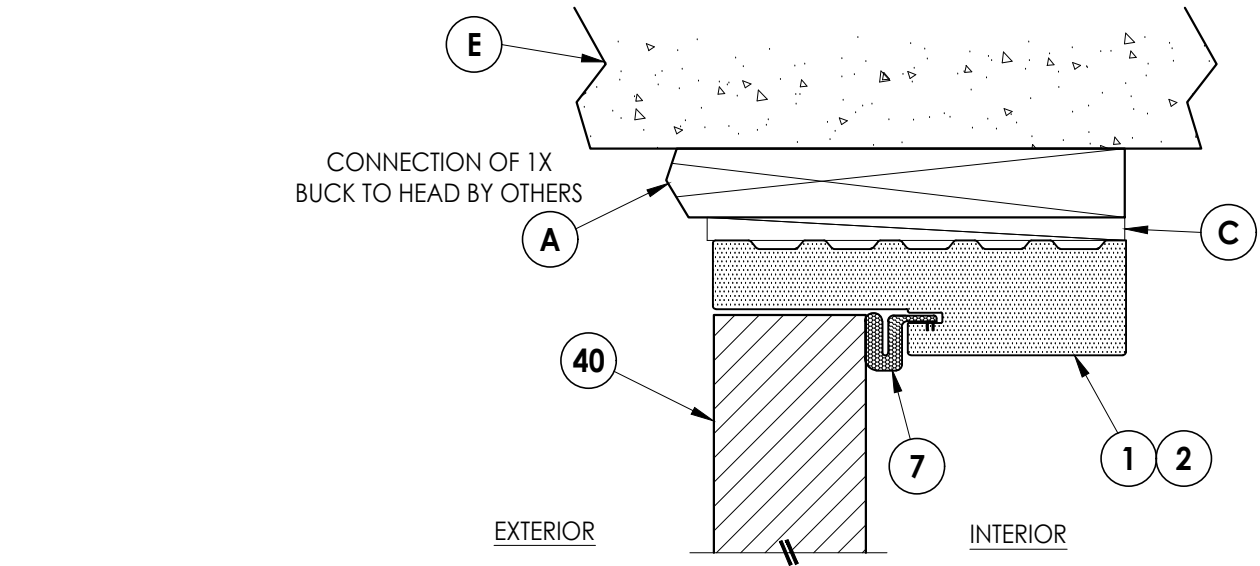
3 VERTICAL CROSS SECTION
3 Outswing Shown (Inswing Similar)
Shown w/ 2X Buck



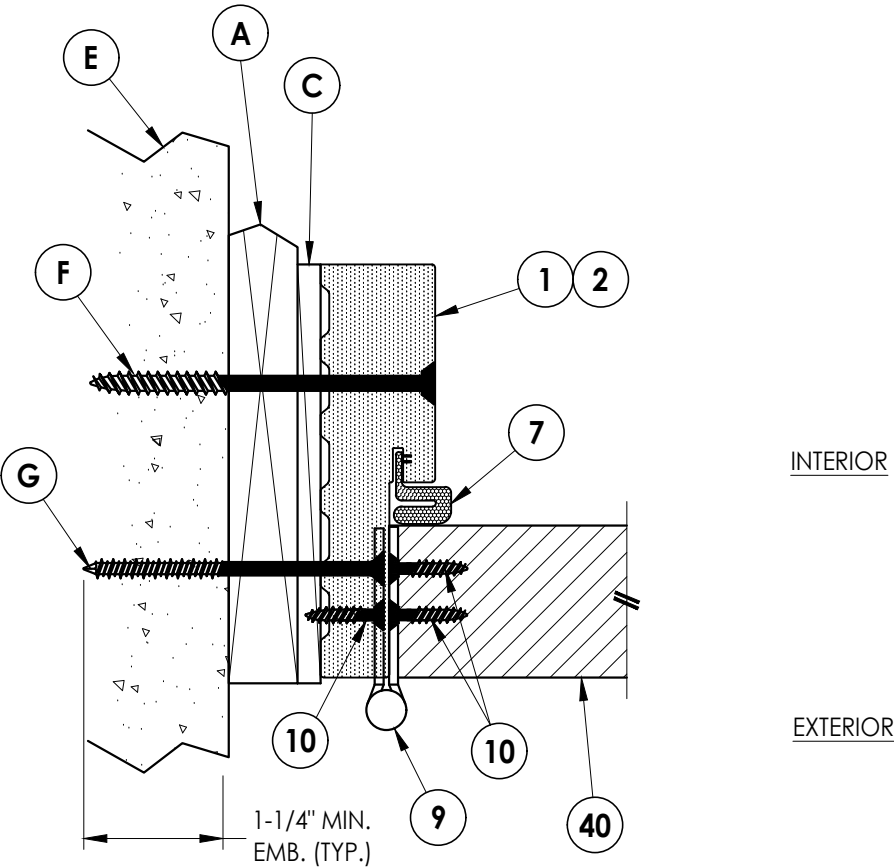
2 HORIZONTAL CROSS SECTION
3 Outswing Shown (Inswing Similar)
Shown w/ 2X Buck

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: ODL FIBERGLASS DOOR				PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)			
						LFS	BY
DATE: 2/15/24				1 12/04/24 ADD ALT. JAMBS & THRESHOLDS			
SCALE: N.T.S.				NO. DATE			
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-46116.6							
SHEET 3 OF 8				REVISIONS			

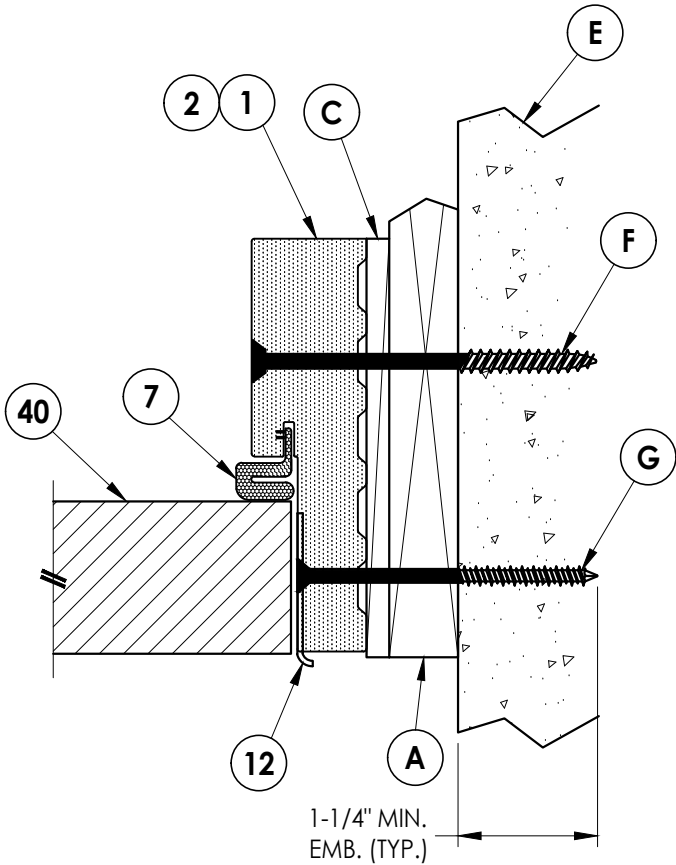
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3 VERTICAL CROSS SECTION
4 Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



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



2 HORIZONTAL CROSS SECTION
4 Outswing Shown (Inswing Similar)
Shown w/ 1X Buck

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-46116.6

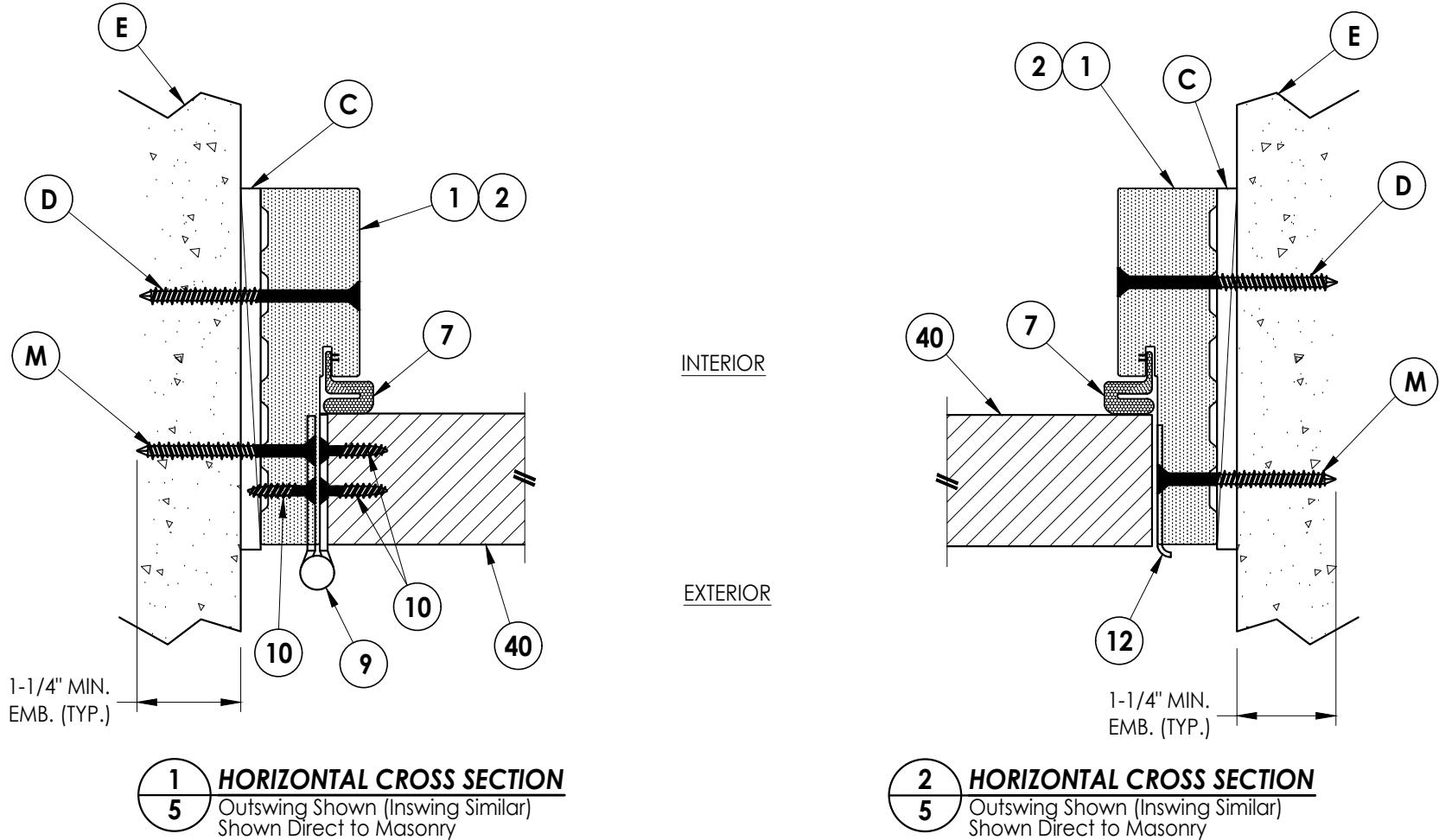
SHEET 4 OF 8

PRODUCT: ODL
FIBERGLASS DOOR

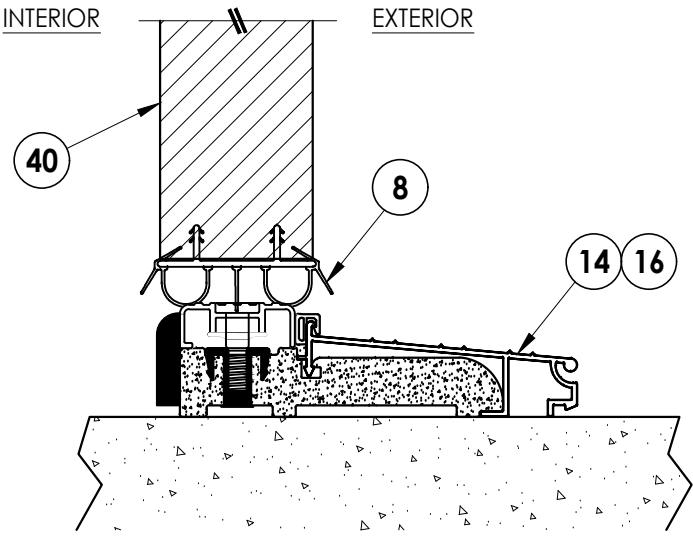
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

Documents Prepared By:
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P.E. No. 43409

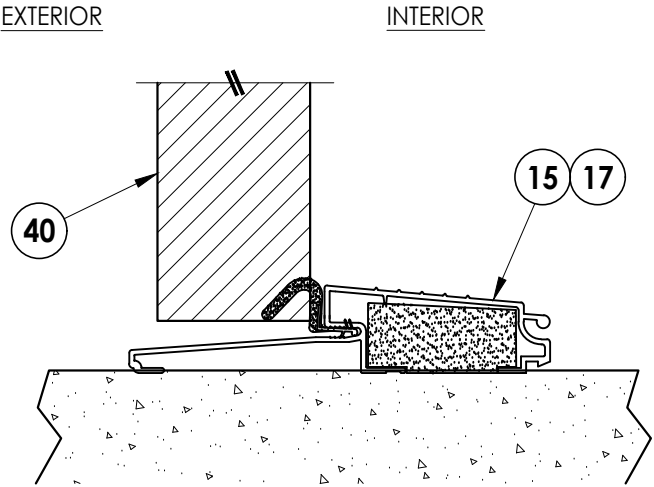
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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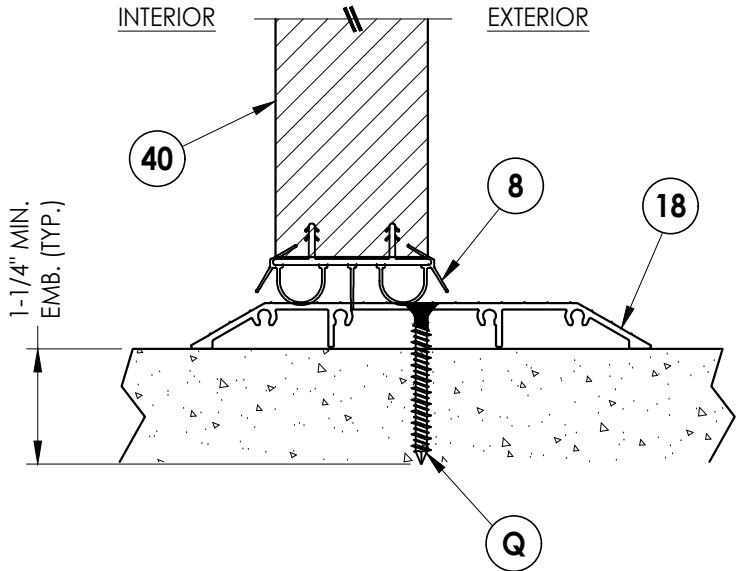
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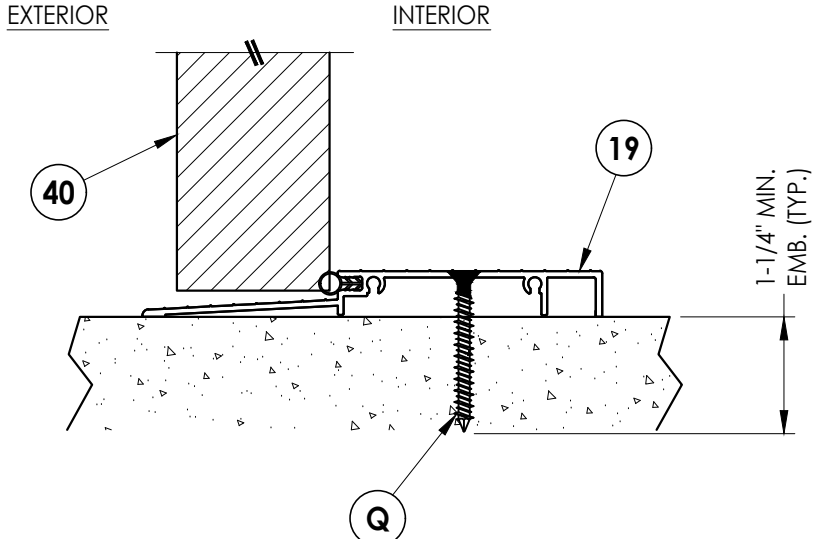
1
6 VERTICAL CROSS SECTION
Inswing Sill



2
6 VERTICAL CROSS SECTION
Outswing Sill



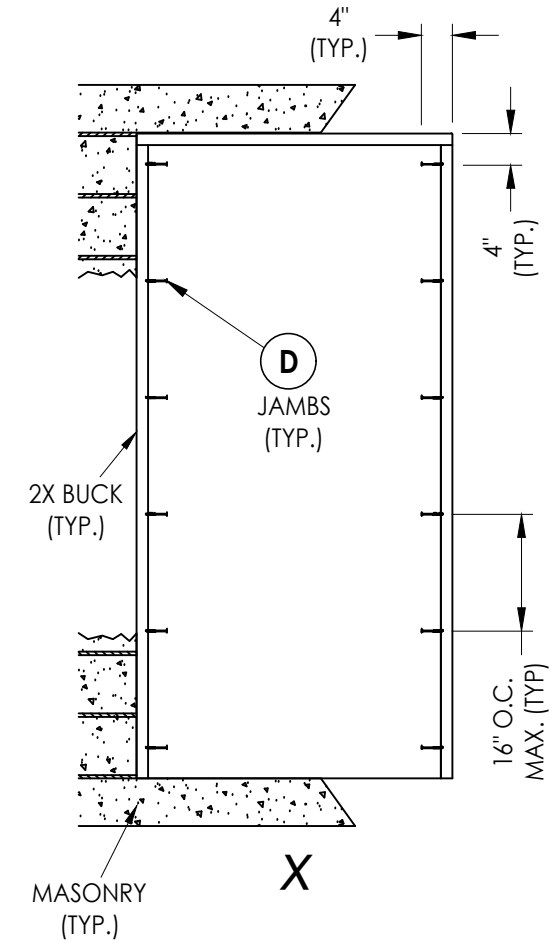
3
6 VERTICAL CROSS SECTION
ADA Sill



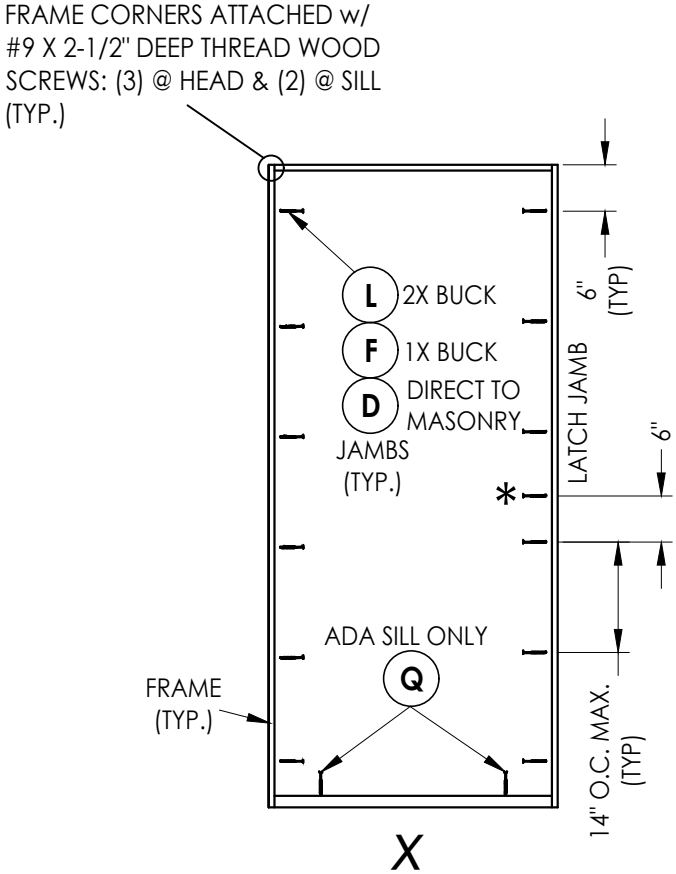
4
6 VERTICAL CROSS SECTION
ADA Outswing Sill

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PRODUCT:	ODL FIBERGLASS DOOR	PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)	
		LFS	BY
		REVISIONS	
		NO.	DATE
		1	12/04/24
		ADD ALT. JAMBS & THRESHOLDS	
DATE: 2/15/24			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-46116.6			
SHEET 6 OF 8			

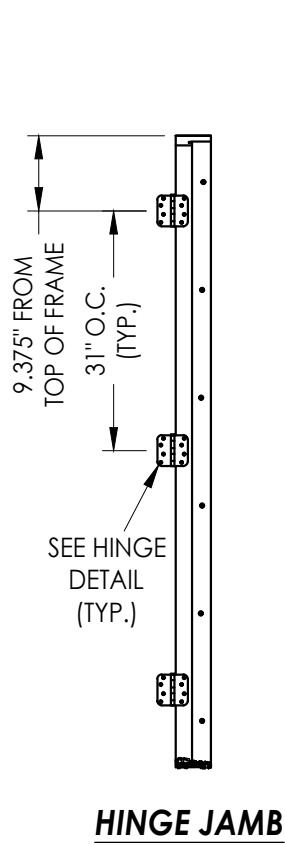
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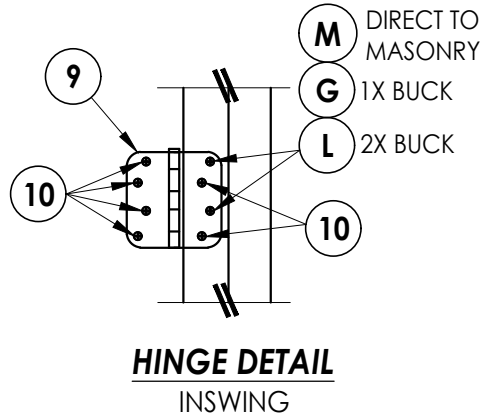
2X BUCK ANCHORING



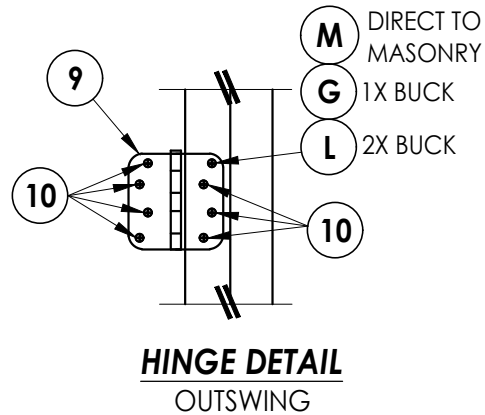
FRAME ANCHORING



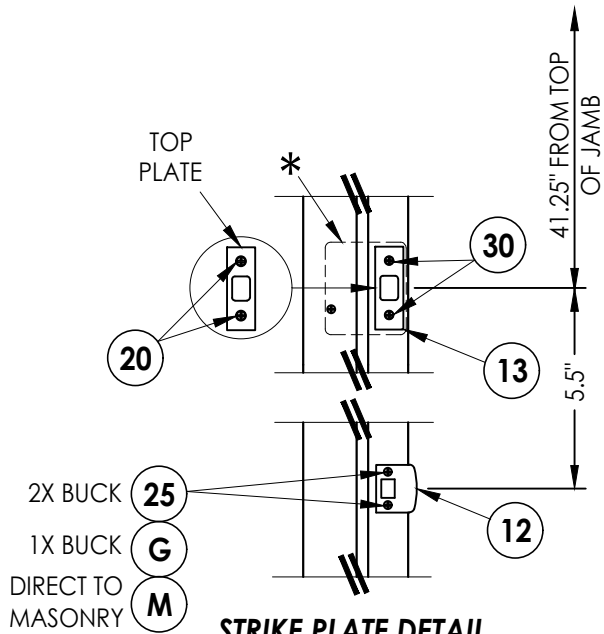
HINGE JAMB



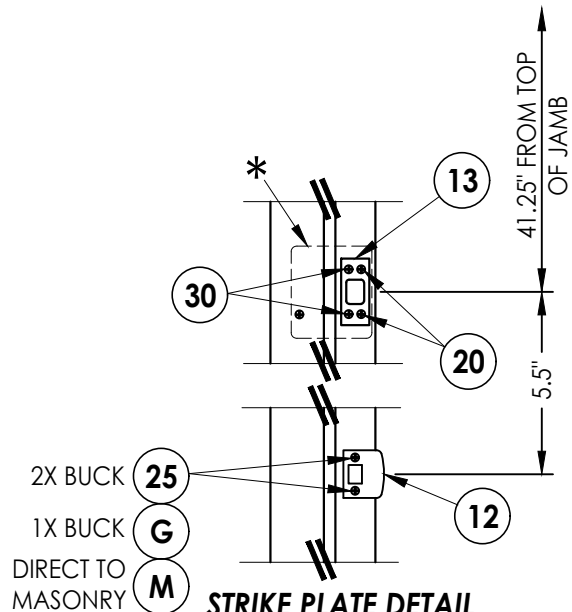
HINGE DETAIL
INSWING



HINGE DETAIL
OUTSWING



STRIKE PLATE DETAIL
SCHLAGE LOCKSET



STRIKE PLATE DETAIL
KWIKSET LOCKSET

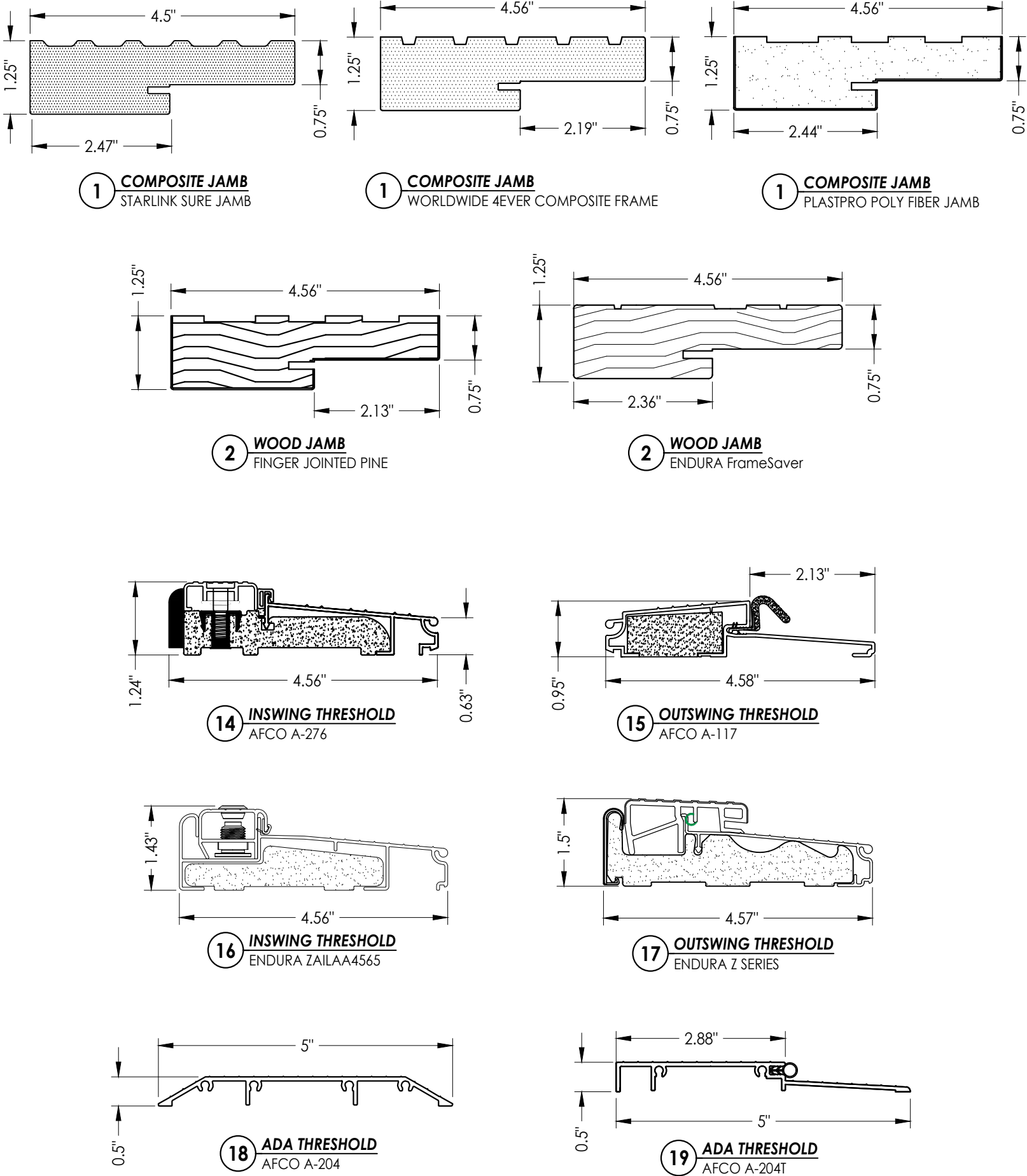
*4" X 4" 20 GA. STEEL PLATE ATTACHED TO BACK OF JAMB w/ (2) 3/8" T50 STAPLES PLUS ADDITIONAL ANCHOR THRU LATCH JAMB

HARDWARE DETAILS

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PRODUCT: ODL FIBERGLASS DOOR		PART OR ASSEMBLY: BUCK & FRAME ANCHORING & HARDWARE DETAILS	
		REVISIONS	
		NO.	DATE
		1	12/04/24
		ADD ALT. JAMBS & THRESHOLDS	
		LFS	BY
DATE: 2/15/24			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-46116.6			
SHEET 7 OF 8			

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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
Q	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	COMPOSITE JAMB (STARLINK, WORLDWIDE, OR PLASTPRO)	COMP
2	WOOD JAMB (FJ PINE OR PLASTPRO)	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	4" X 4" HINGE	STEEL
10	#9 X 3/4" PFH WOOD SCREW	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
14	INSWING THRESHOLD	ALUM/COMP
15	OUTSWING THRESHOLD	ALUM/COMP
16	INSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP
18	ADA THRESHOLD	ALUM
19	ADA OUTSWING THRESHOLD	ALUM
20	#8 X 1/2" PFH WOOD SCREW	STEEL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
30	#12 X 2-1/2" PFH WOOD SCREW	STEEL
40	DOOR PANEL	-



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 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:

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

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FBPE Registry No. 9813

PRODUCT: ODL
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	ADD ALT. JAMBS & THRESHOLDS	LFS	BY
1	12/04/24			

REVISIONS

DATE: 2/15/24
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-46116.6
SHEET 8 OF 8