

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.9.dwg



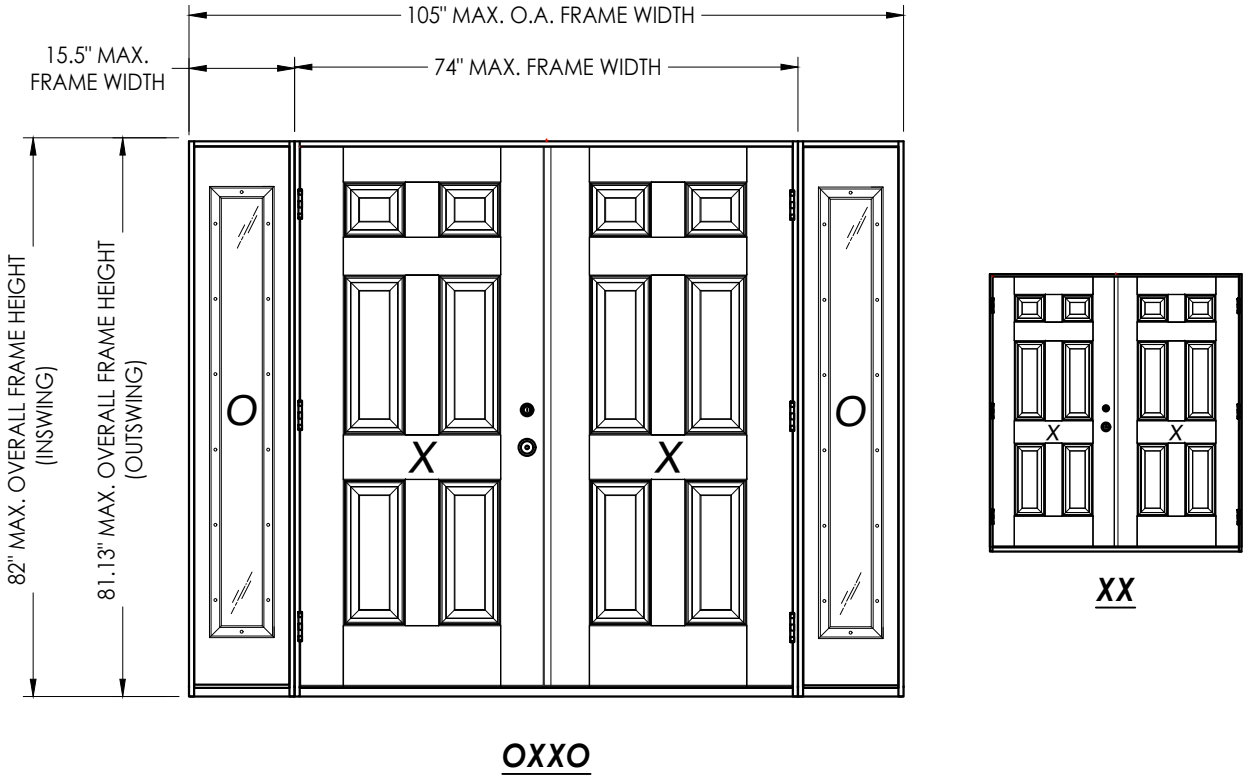
215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

OPAQUE FIBERGLASS DOOR
DOUBLE w/ or w/out SIDELITES
INSWING/OUTSWING
"IMPACT"

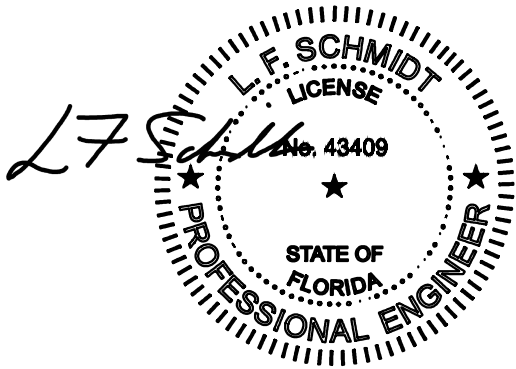
GENERAL NOTES

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.

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3	Sidelite Panel Details	10	Horizontal & Vertical Cross Sections (Direct to Masonry)
4	Lite Frame Glazing Details (Alum. Flat Frame)	11	Vertical Cross Sections (Thresholds)
5	Lite Frame Glazing Details (Keystone PVC Frame)	12	Buck Anchoring
6	Elevations	13	Frame Anchoring & Hardware Details
7	Horizontal Cross Sections	14	Bill of Materials & Components



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	74.0" x 82.0"	+50.0	-50.0	+50.0	-50.0
OX XO	105.0" x 82.0"	+50.0	-50.0	+50.0	-50.0



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

1

12/04/24

ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS

NO.

DATE

REVISIONS

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

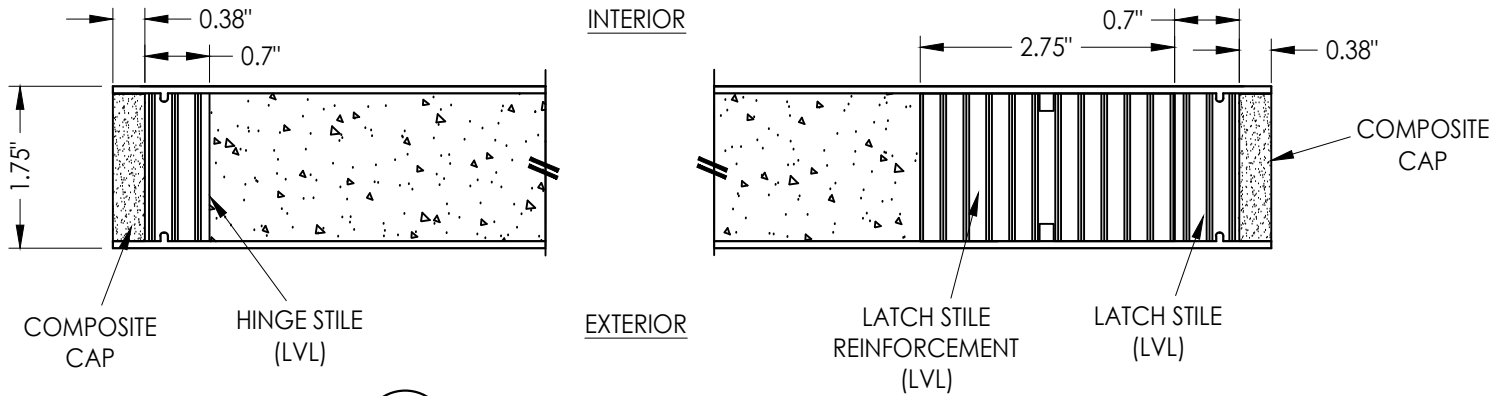
DRAWING NO.: FL-46116.9

SHEET 1 OF 14

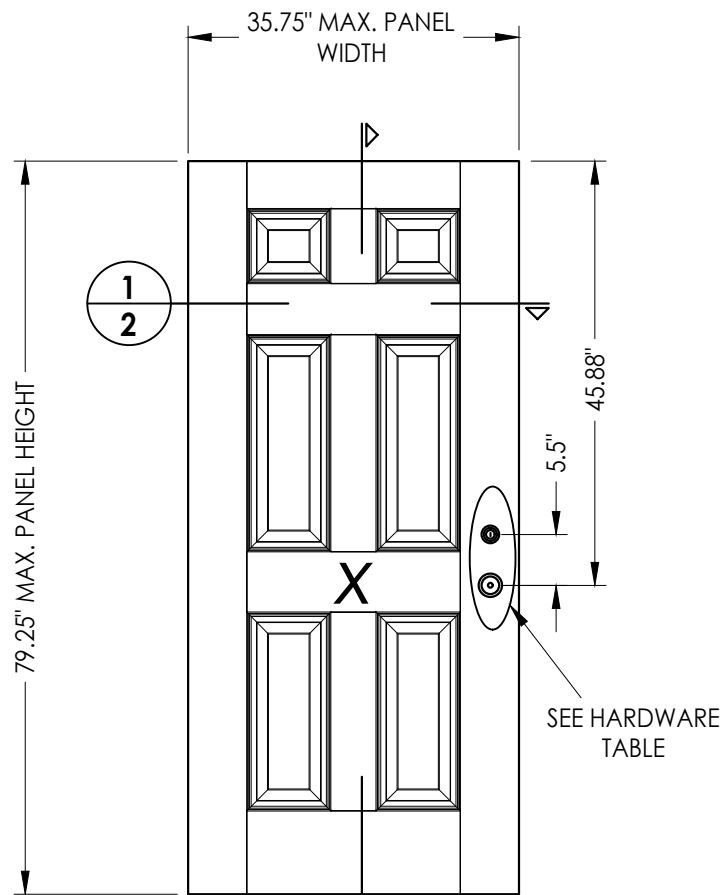
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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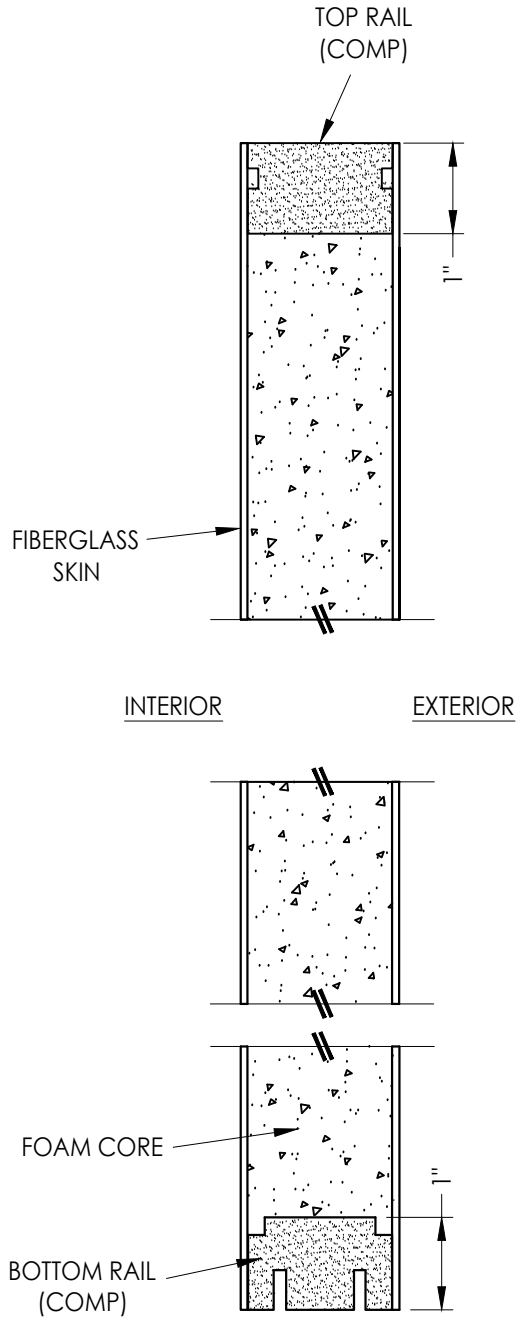
1
2 **HORIZONTAL CROSS SECTION**



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:
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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:
DOOR
PANEL DETAILS

NO.	DATE	REVISIONS	BY
1	12/04/24	ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS	LFS

DATE: 2/15/24

SCALE: N.T.S.

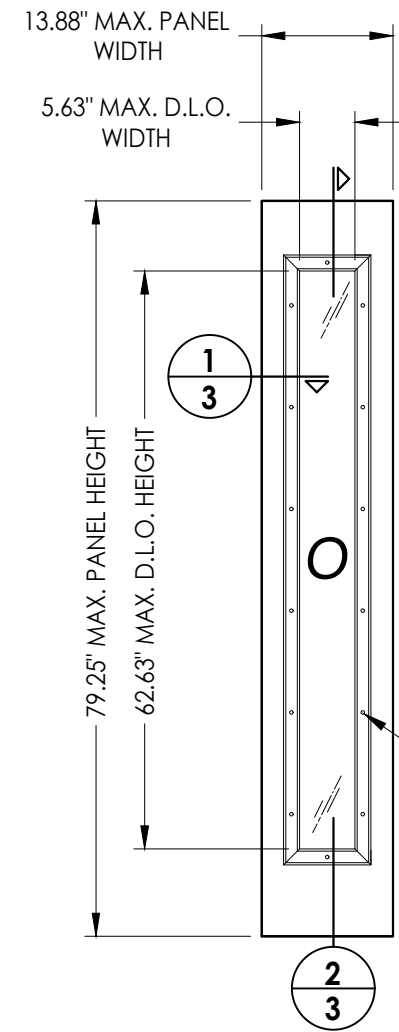
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CHK. BY: RW

DRAWING NO.:

FL-46116.9

SHEET 2 OF 14



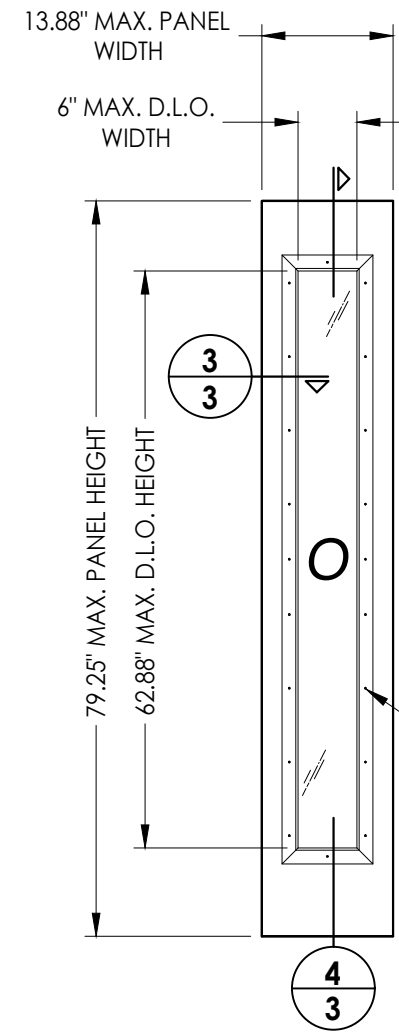
FIBERGLASS SKIN: 0.070" MIN. THK.
FOAM CORE: POLYURETHANE (1.9 PCF MIN.)

Diagram illustrating the cross-section of a composite structure, likely a vehicle body panel, showing the following components and labels:

- TOP RAIL (COMP)**: The top rail component, shown as a textured layer.
- FIBERGLASS SKIN**: The main body of the panel, shown as a layer with internal reinforcement (triangles).
- INTERIOR**: The left side of the structure.
- EXTERIOR**: The right side of the structure.
- Bottom Rail**: The bottom rail component, shown as a textured layer.
- Break Symbol (//)**: Indicated at the bottom of the structure, suggesting a break or continuation.

Diagram illustrating the cross-section of a window assembly. The assembly includes a frame (G1, G2, G3, G4) and a central panel. The central panel is composed of a foam core (FOAM CORE) and a bottom rail (BOTTOM RAIL (COMP)). The bottom rail is shown in a compressed state (COMP). A dimension line indicates a height of 1" for the bottom rail section.

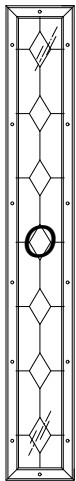
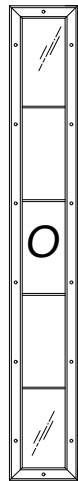
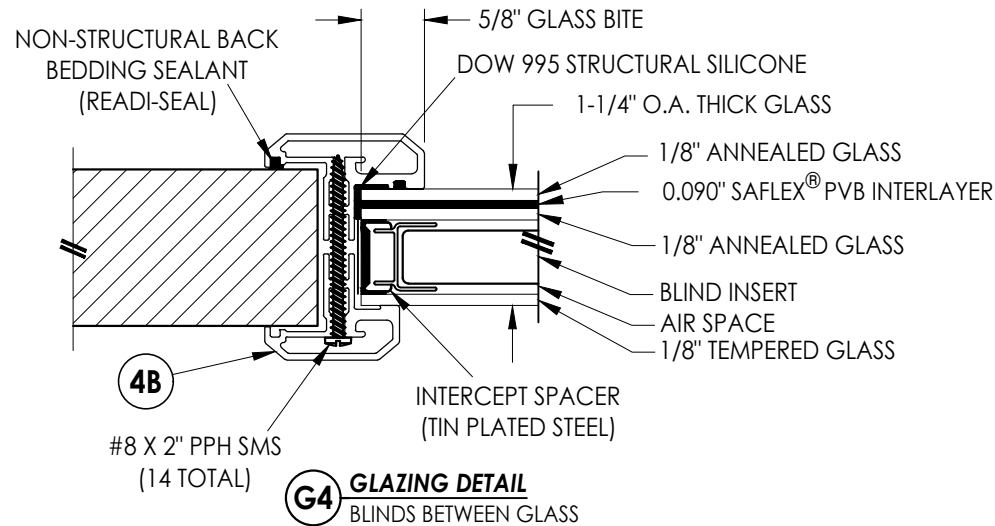
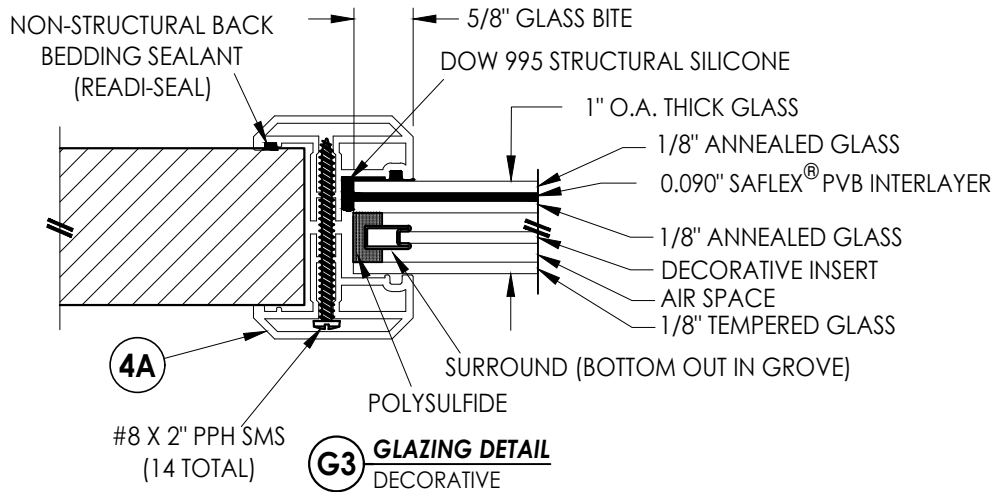
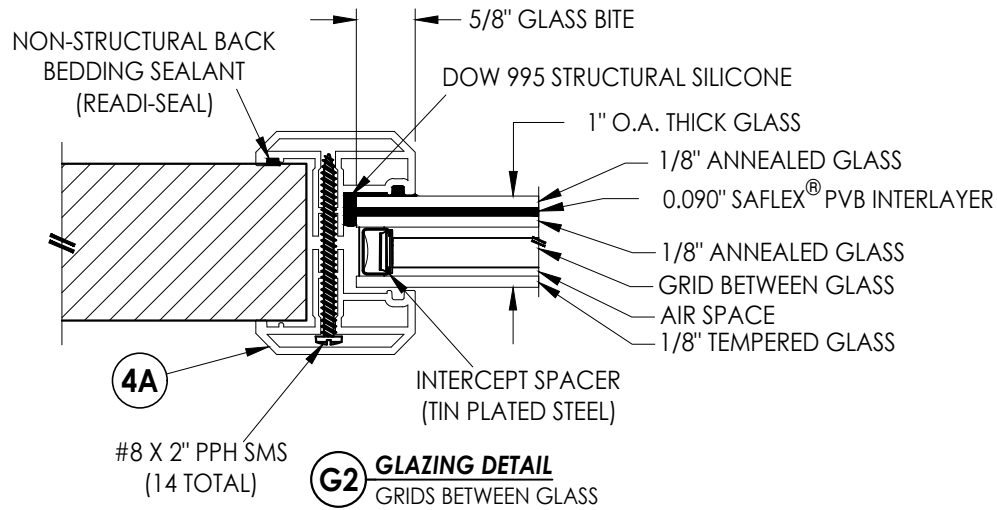
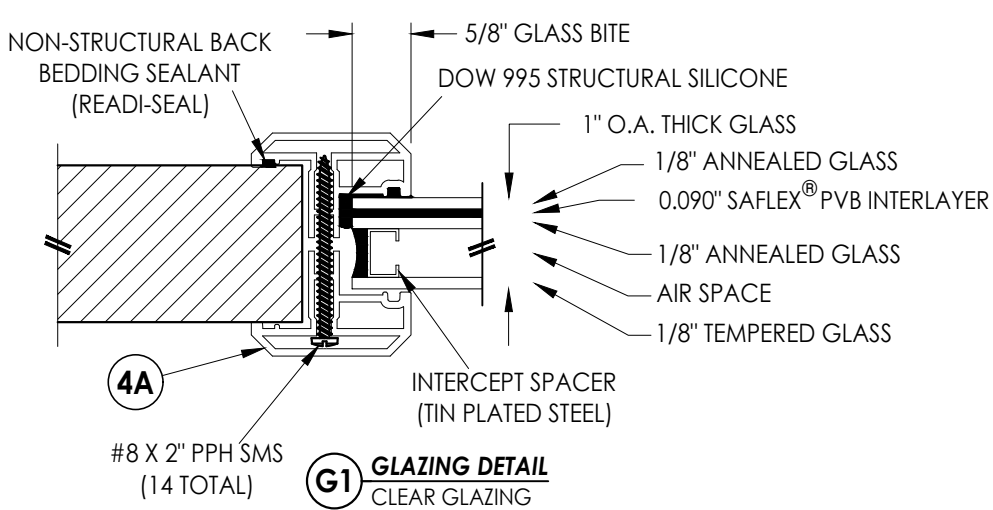
A detailed cross-section diagram of a composite door assembly. The diagram illustrates the internal structure, including a composite cap, hinge stile (LVL), and various internal layers. Dimensions are provided: 0.38" and 0.7" for horizontal spacing, and 1.75" for the height of the main body. The assembly is shown with exterior and interior faces. Labels include G5, G6, G7, G8 for glass options, and COMPOSITE CAP, HINGE STILE (LVL), EXTERIOR, and INTERIOR for component and orientation identification.



A cross-sectional diagram of a composite structure. At the top is a layer labeled "TOP RAIL (COMP)". Below this is a large central area labeled "INTERIOR" on the left, which is filled with a stippled pattern and contains several small, dark, triangular shapes. To the right of this central area, a vertical dimension line indicates a height of "1\"/>

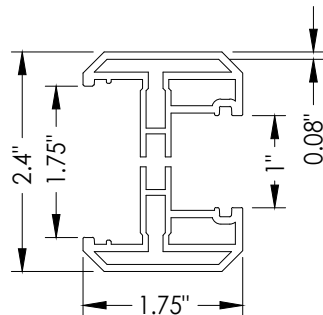
Technical drawing of the G5-G8 window profile cross-section. The top part shows the profile with a multi-pane glass unit (G5, G6, G7, G8) and a drainage system. The bottom part shows a detailed view of the foam core and the bottom rail (COMP).

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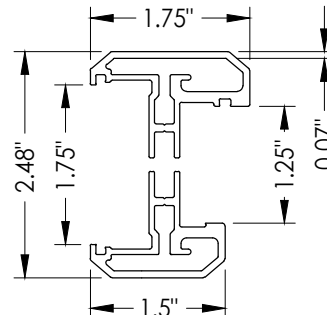


GRIDS BETWEEN GLASS DECORATIVE BLINDS BETWEEN GLASS

ALTERNATE GLAZING DETAILS



4A ODL FLAT ALUMINUM LITE FRAME
1" GLAZING



4B ODL FLAT ALUMINUM LITE FRAME
1-1/4" GLAZING

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FBPE Registry No. 9813

PRODUCT: ODL
FIBERGLASS DOOR

PART OR ASSEMBLY:
LITE FRAME GLAZING DETAILS
(ALUMINUM FLAT FRAME)

NO.	DATE	REVISIONS
1	12/04/24	ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

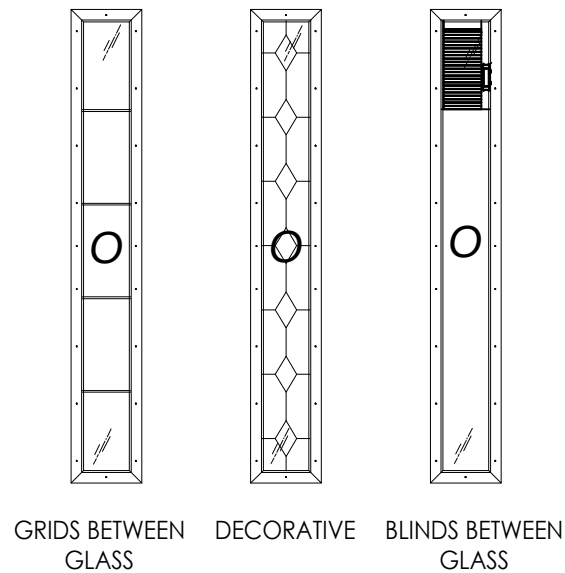
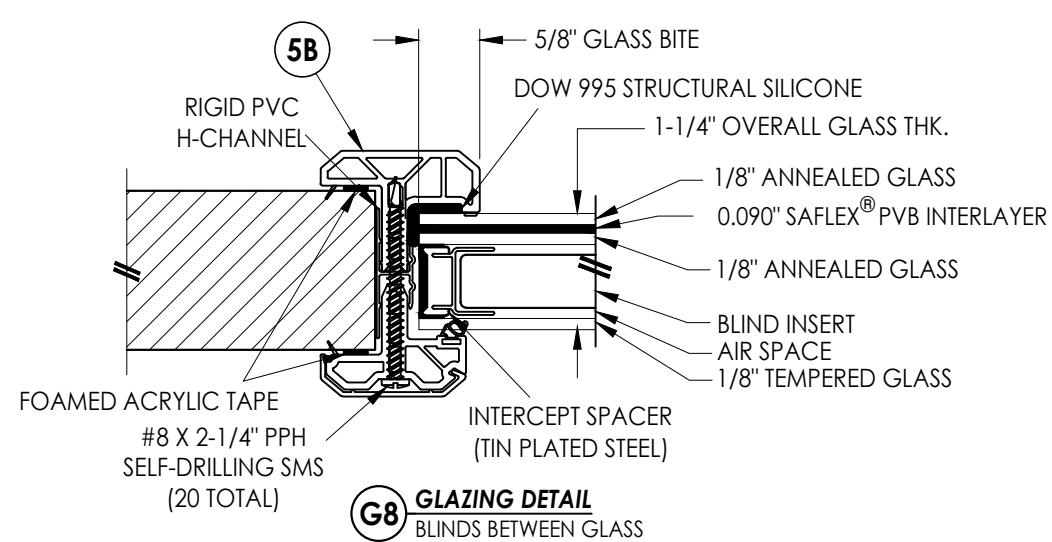
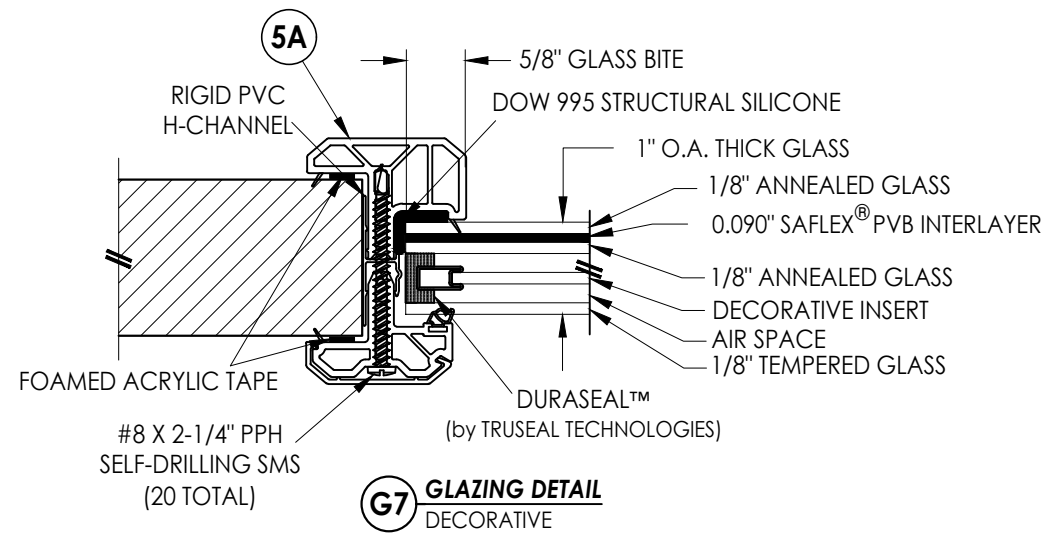
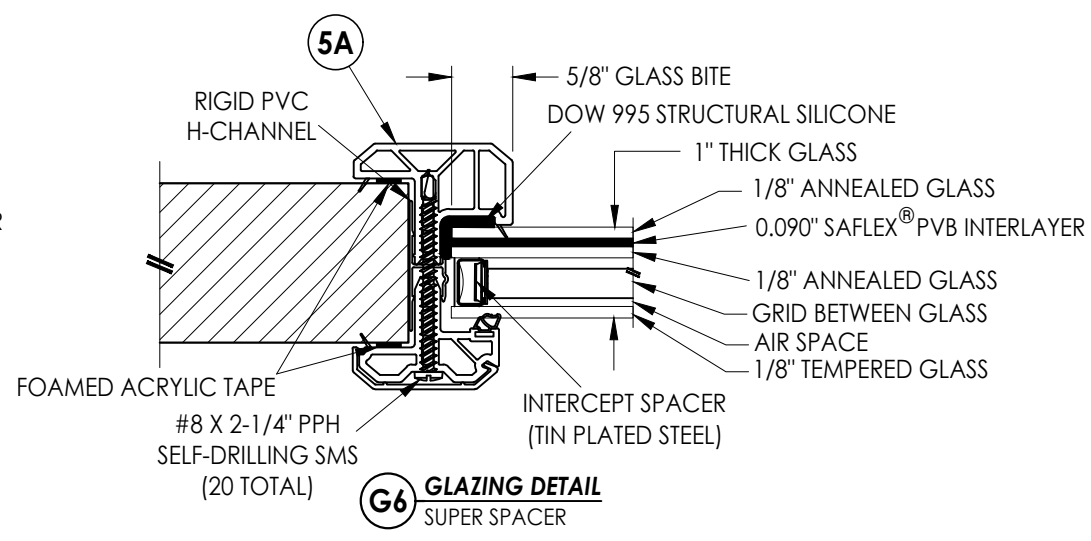
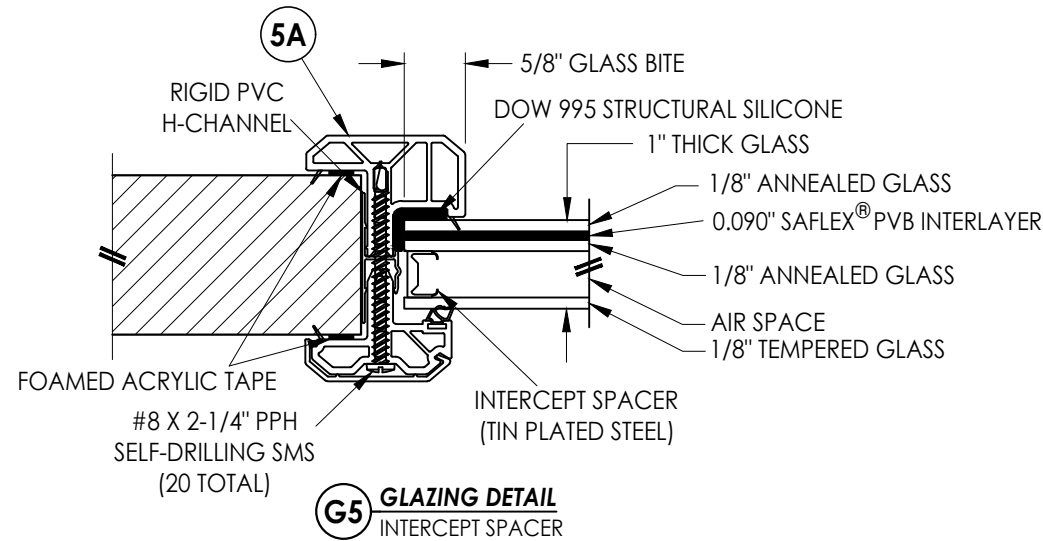
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DRAWING NO.:

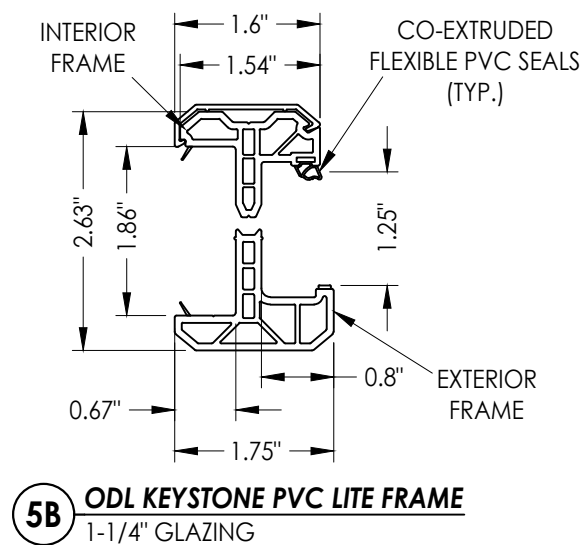
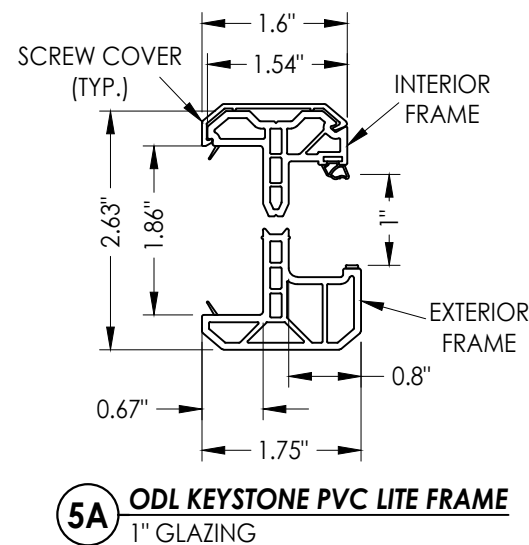
FL-46116.9

SHEET 4 OF 14

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ALTERNATE GLAZING DETAILS



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

PRODUCT: ODL
FIBERGLASS DOOR

PART OR ASSEMBLY:
LITE FRAME GLAZING DETAILS
(KEYSTONE PVC FRAME)

NO.	DATE	BY	REVISIONS
1	12/04/24	LFS	ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

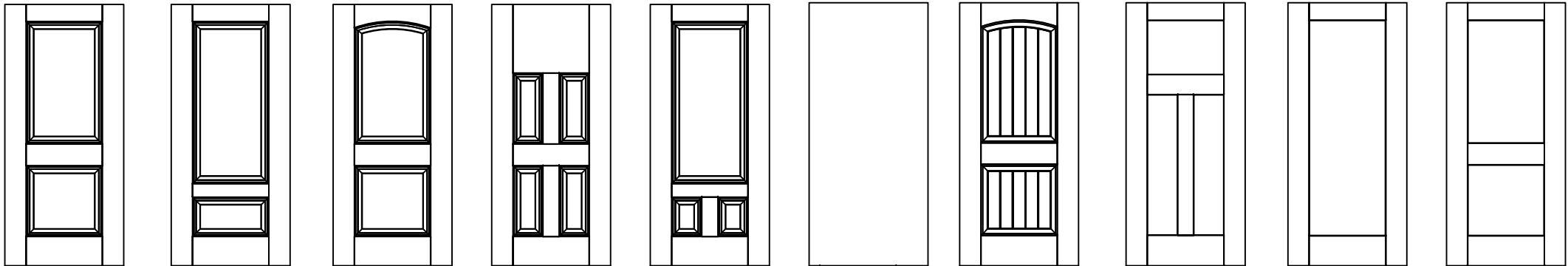
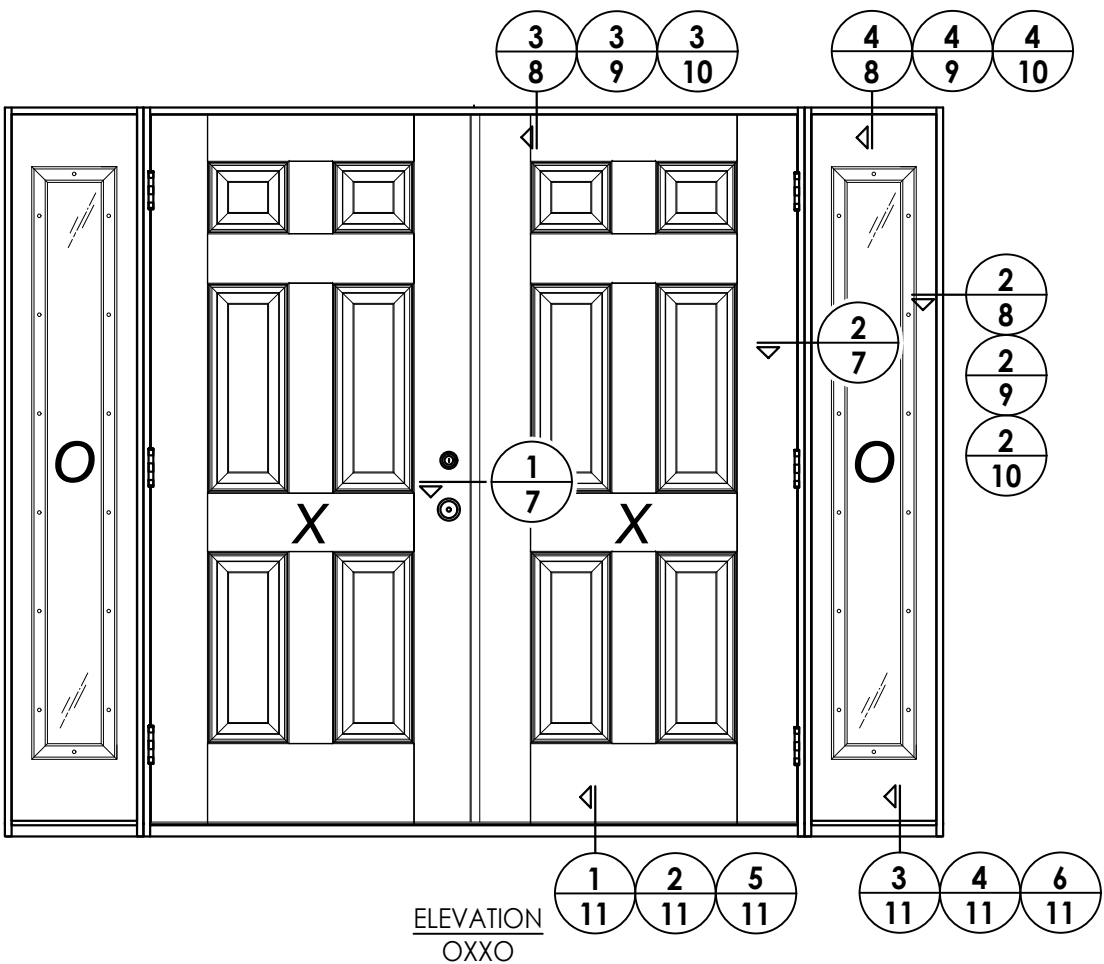
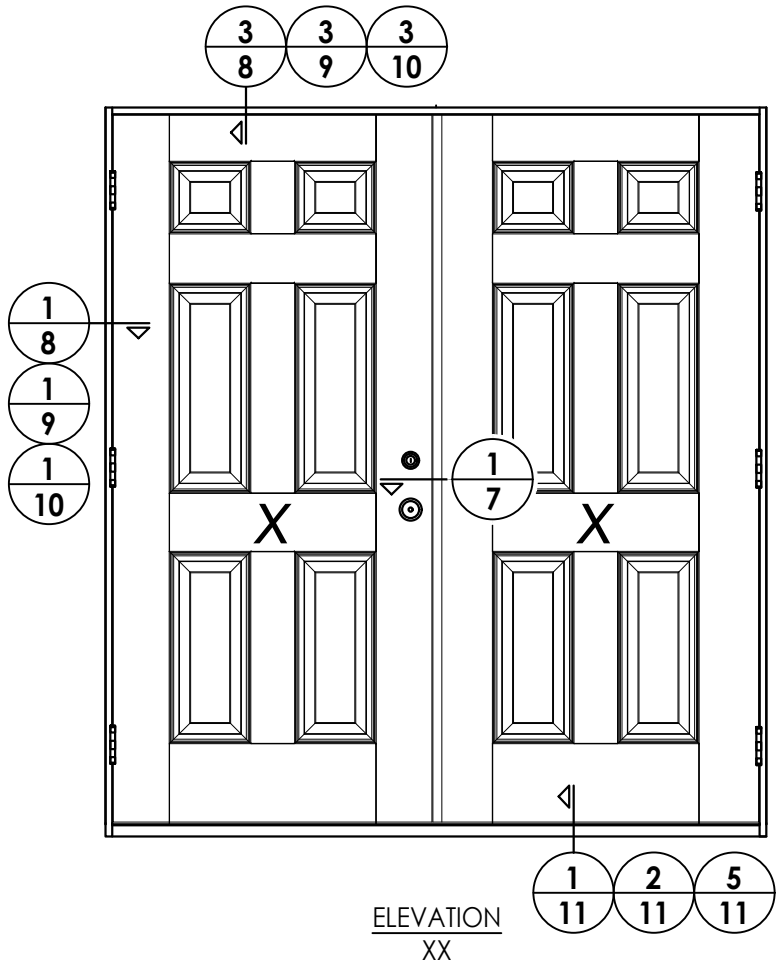
CHK. BY: RW

DRAWING NO.:

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SHEET 5 OF 14

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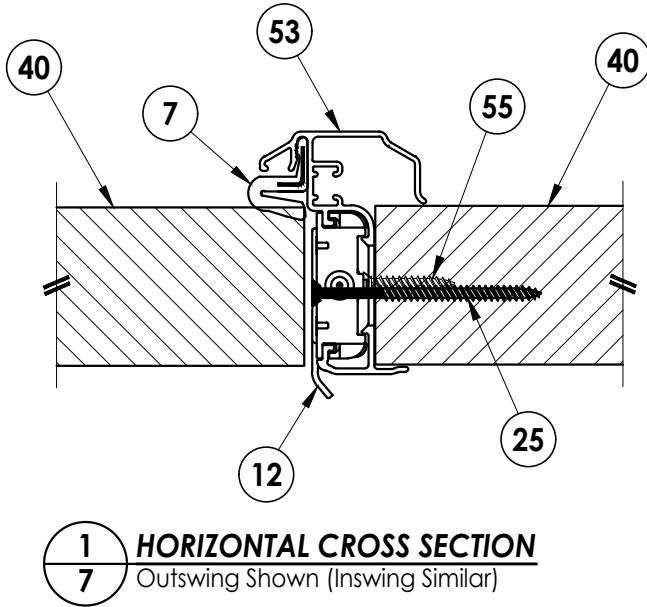


ALTERNATE DOOR PANELS

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PRODUCT: ODL FIBERGLASS DOOR				PART OR ASSEMBLY: ELEVATIONS			
				REVISIONS			
				NO.	DATE		BY
				1	12/04/24	ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS	LFS
DATE: 2/15/24							
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-46116.9							
SHEET 6 OF 14							

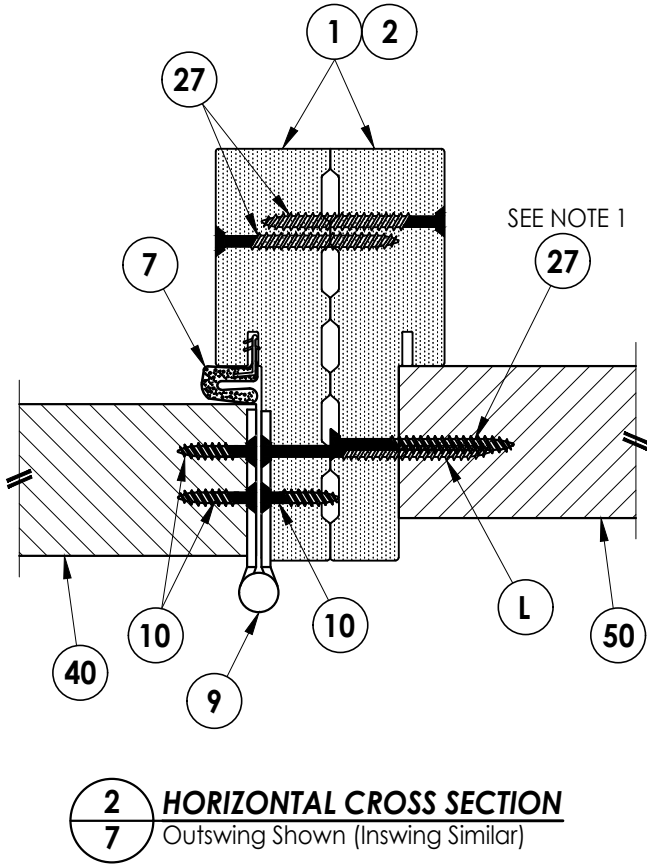
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Notes:
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).



INTERIOR

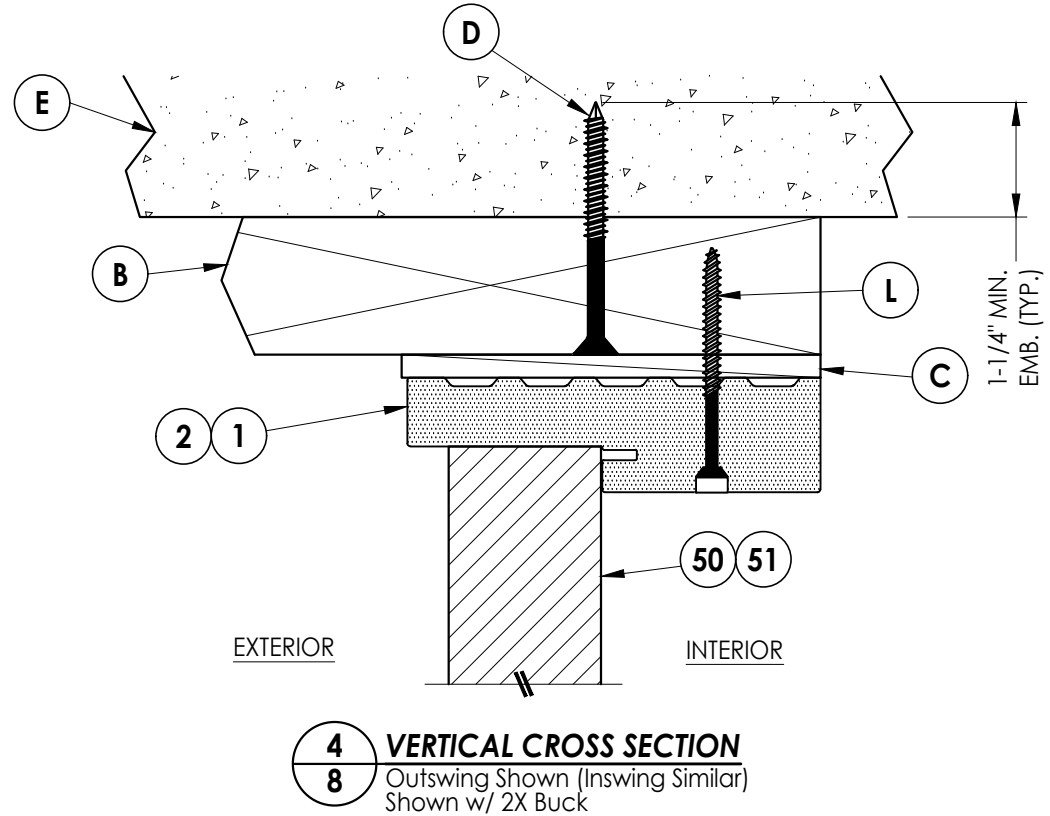
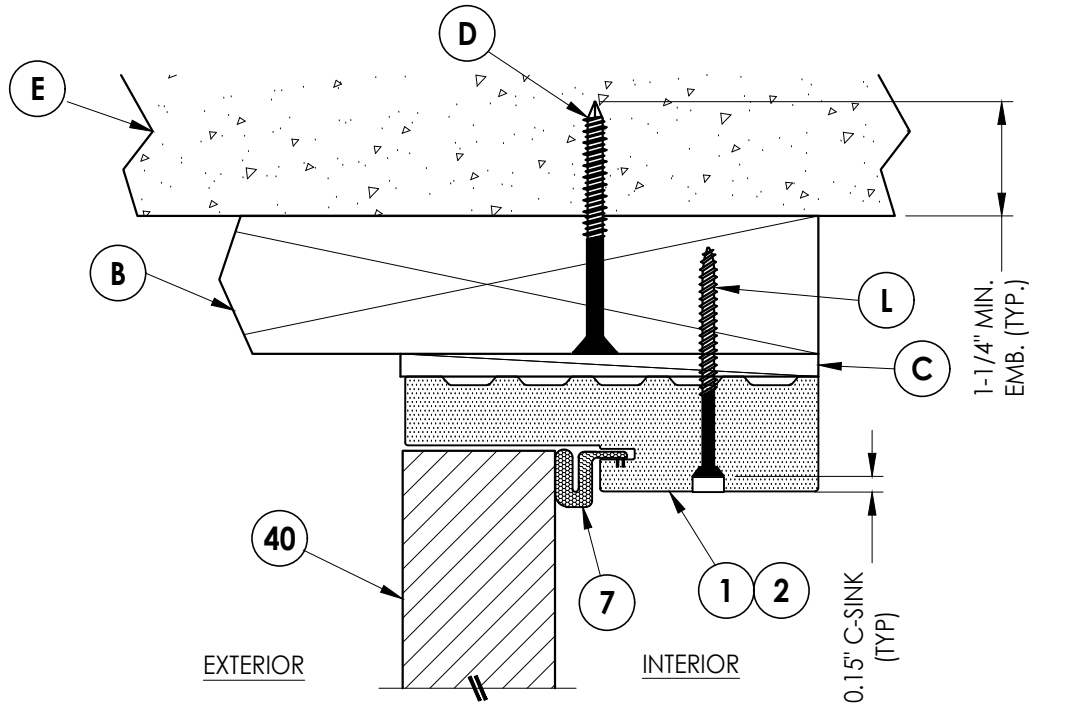
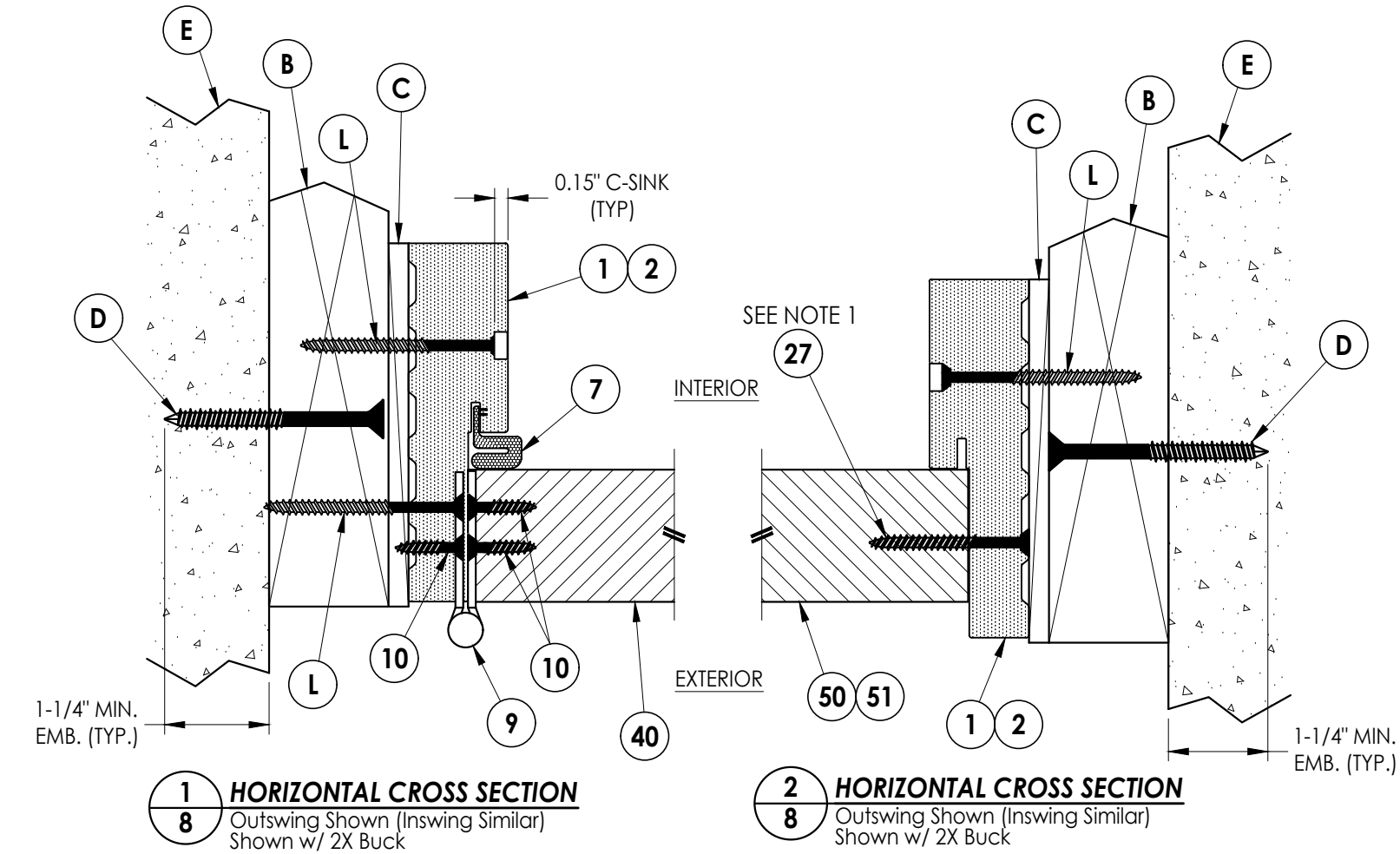
EXTERIOR



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PRODUCT: ODL FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS					
				LFS			
				ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS			
				NO.	DATE	BY	
				REVISIONS			
DATE: 2/15/24							
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-46116.9							
SHEET 7 OF 14							

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



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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)

NO.	DATE	REVISIONS
1	12/04/24	ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS

DATE: 2/15/24

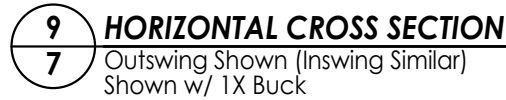
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DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-46116.9

SHEET 8 OF 14

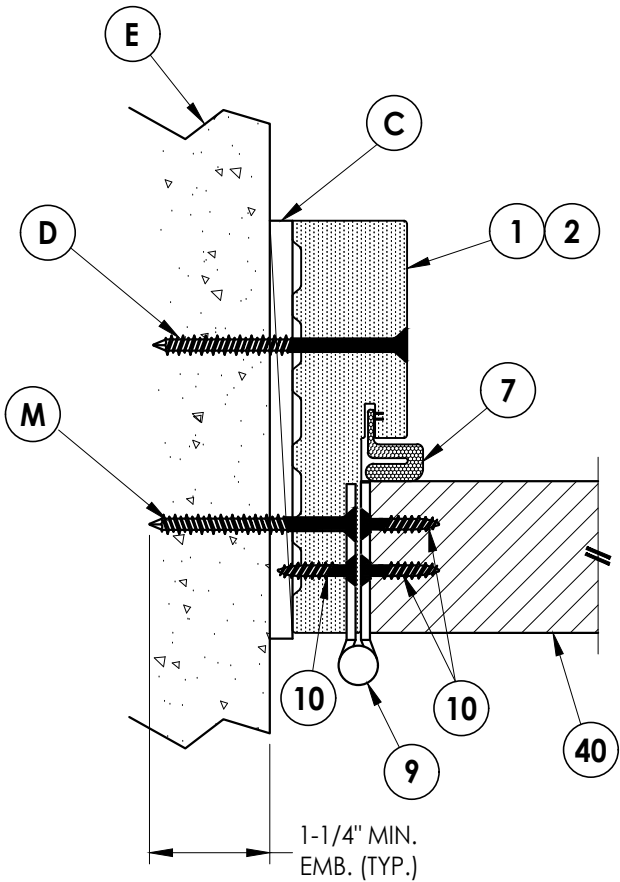
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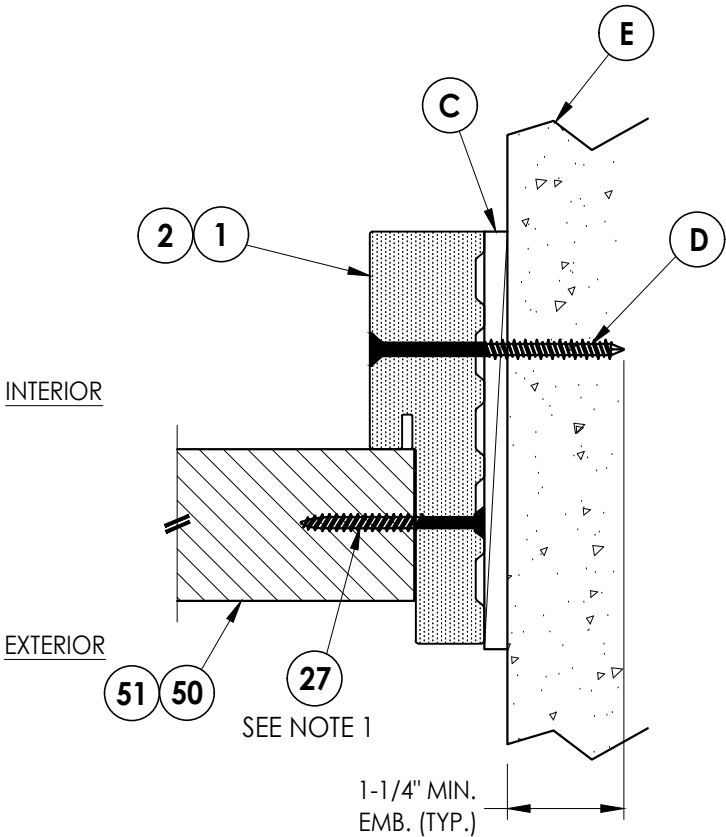
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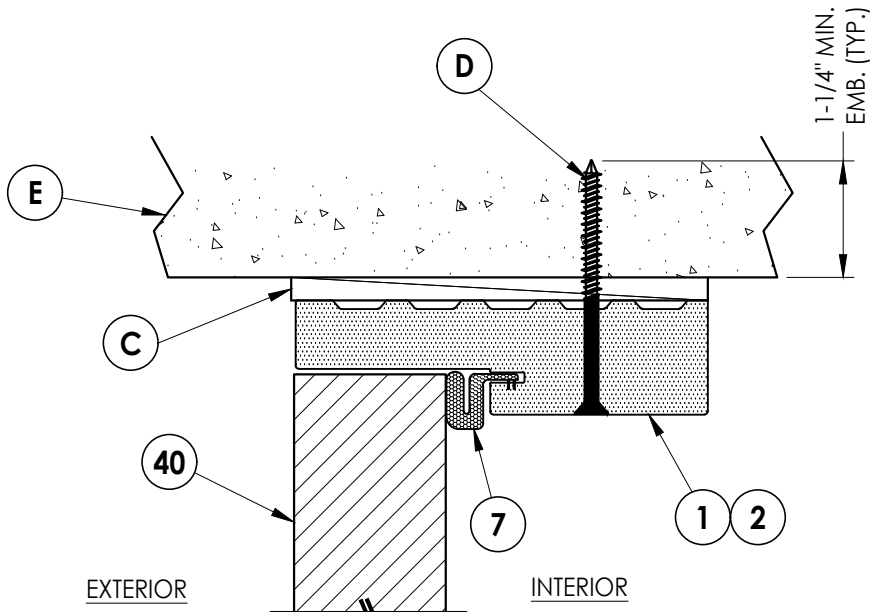
Note:
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).



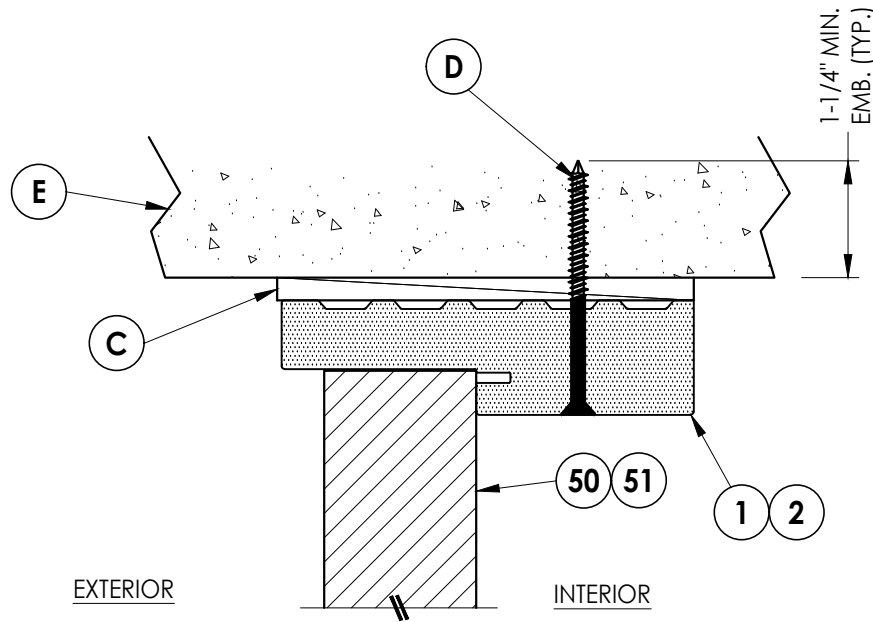
1
10 HORIZONTAL CROSS SECTION
Outswing Shown (Inswing Similar)
Shown Direct to Masonry



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



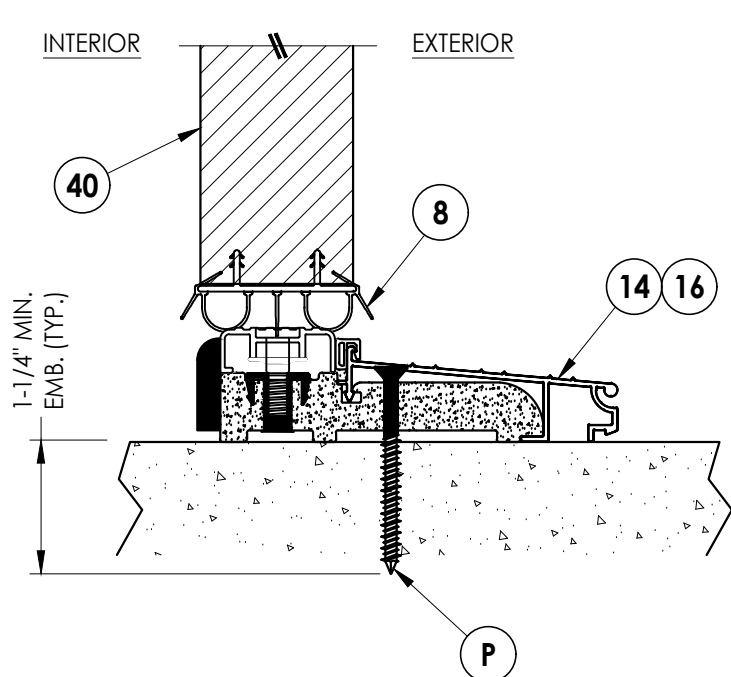
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Outswing Shown (Inswing Similar)
Shown Direct to Masonry



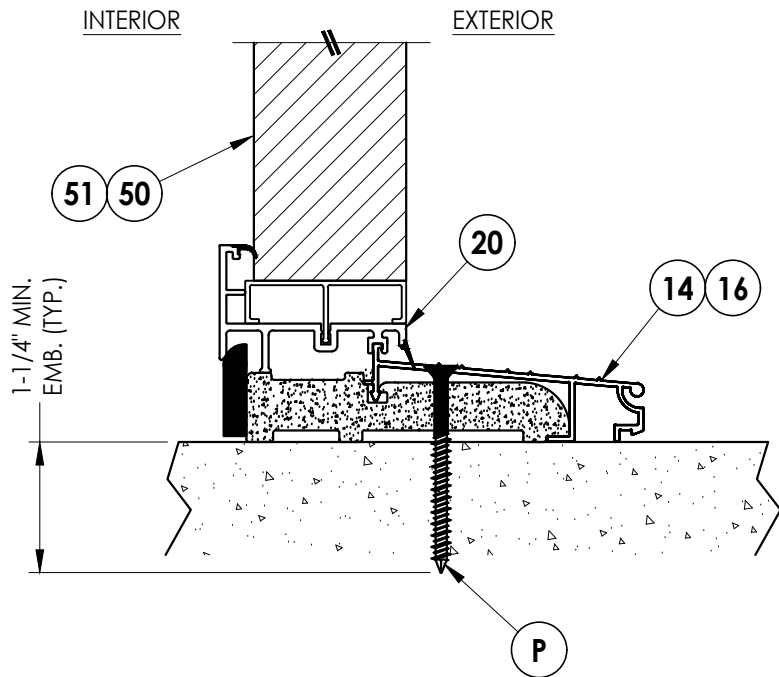
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10 VERTICAL CROSS SECTION
Outswing Shown (Inswing Similar)
Shown Direct to Masonry

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PRODUCT:		ODL FIBERGLASS DOOR		PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)	
				LFS		BY	
				ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS			
		1	12/04/24	NO.	DATE	REVISIONS	
DATE: 2/15/24				SCALE: N.T.S.			
DWG. BY: LFS				CHK. BY: RW			
DRAWING NO.: FL-46116.9				SHEET 10 OF 14			

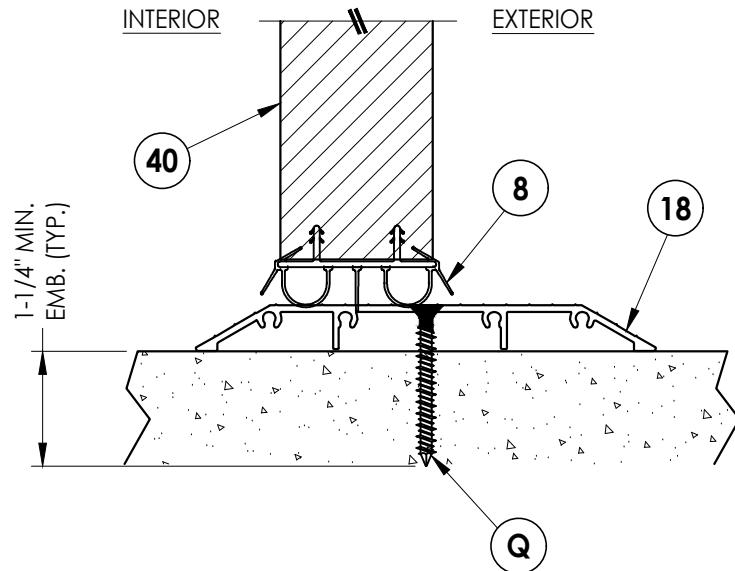
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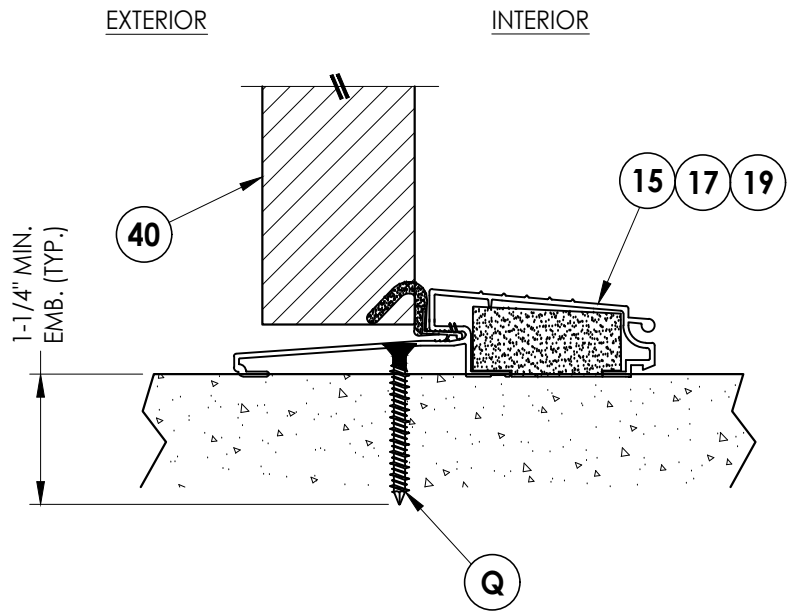
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11 VERTICAL CROSS SECTION
Inswing Sill



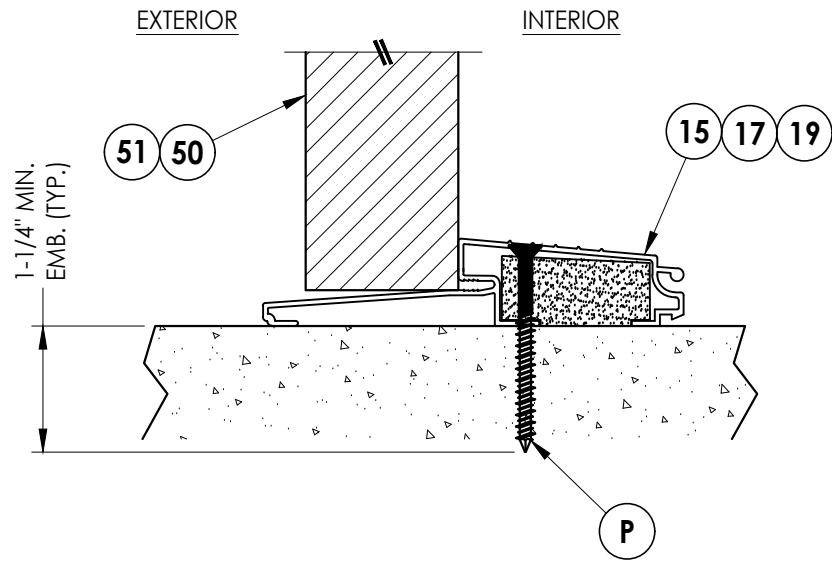
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Inswing Sill



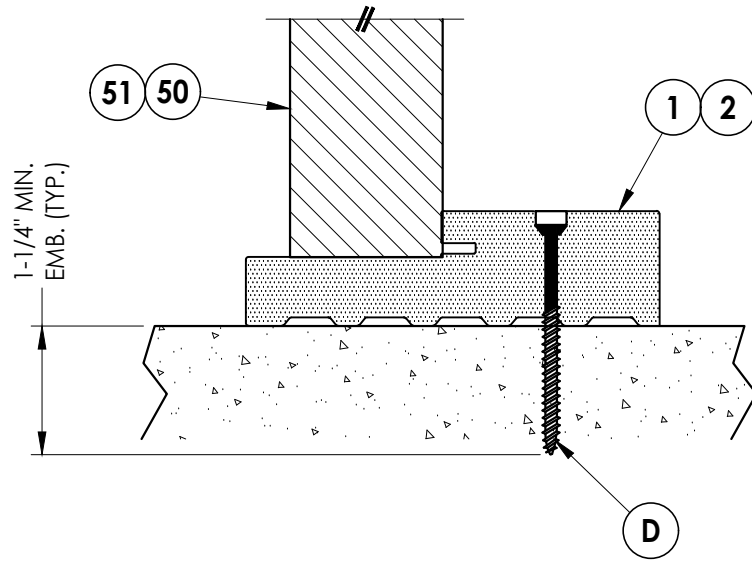
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11 VERTICAL CROSS SECTION
ADA Sill



2
11 VERTICAL CROSS SECTION
Outswing Sill



4
11 VERTICAL CROSS SECTION
Outswing Sill

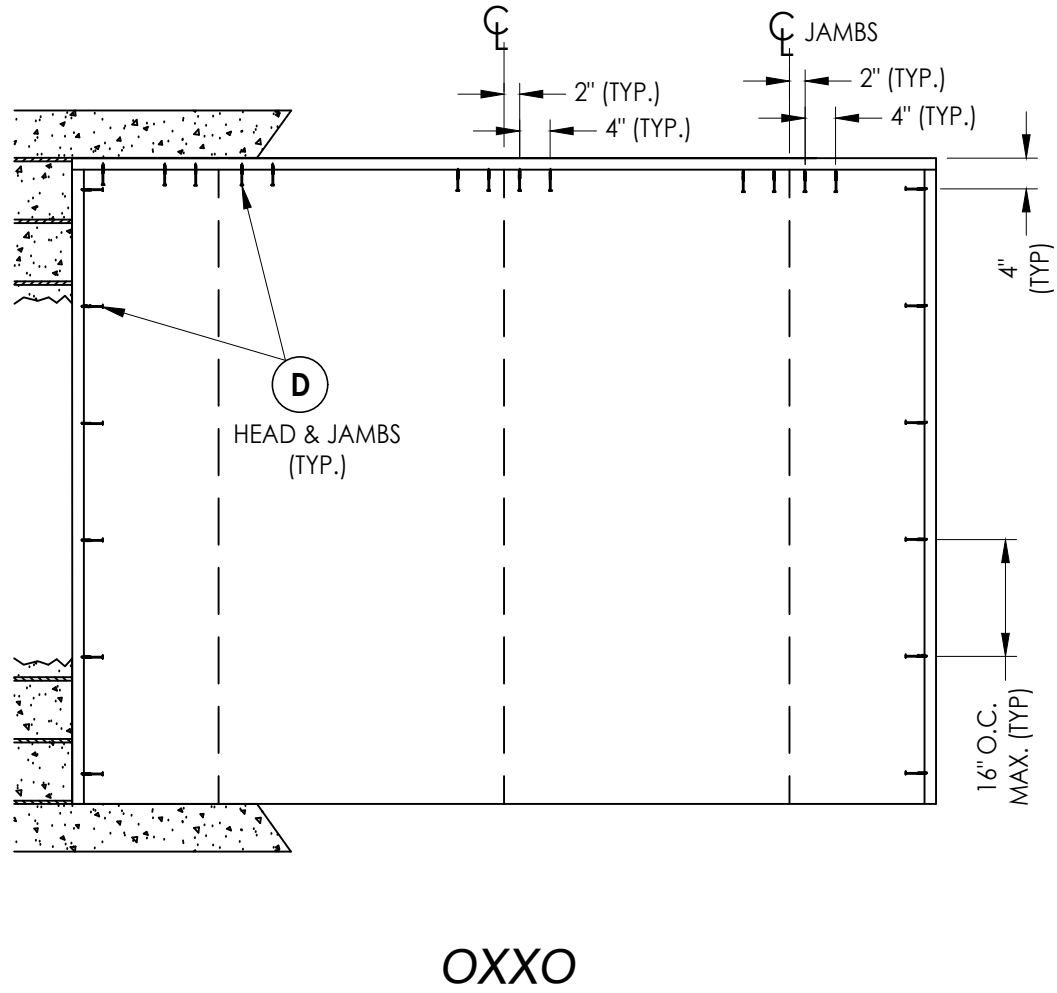
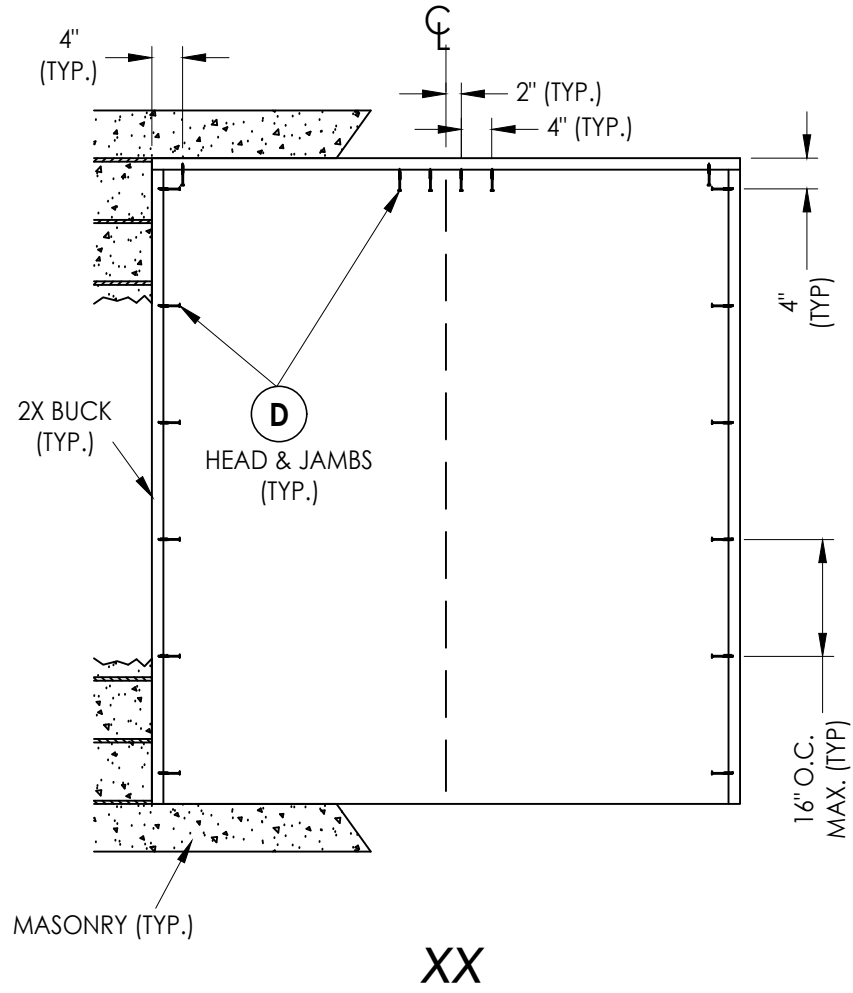


6
11 VERTICAL CROSS SECTION
Boxed Sidelite Sill

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BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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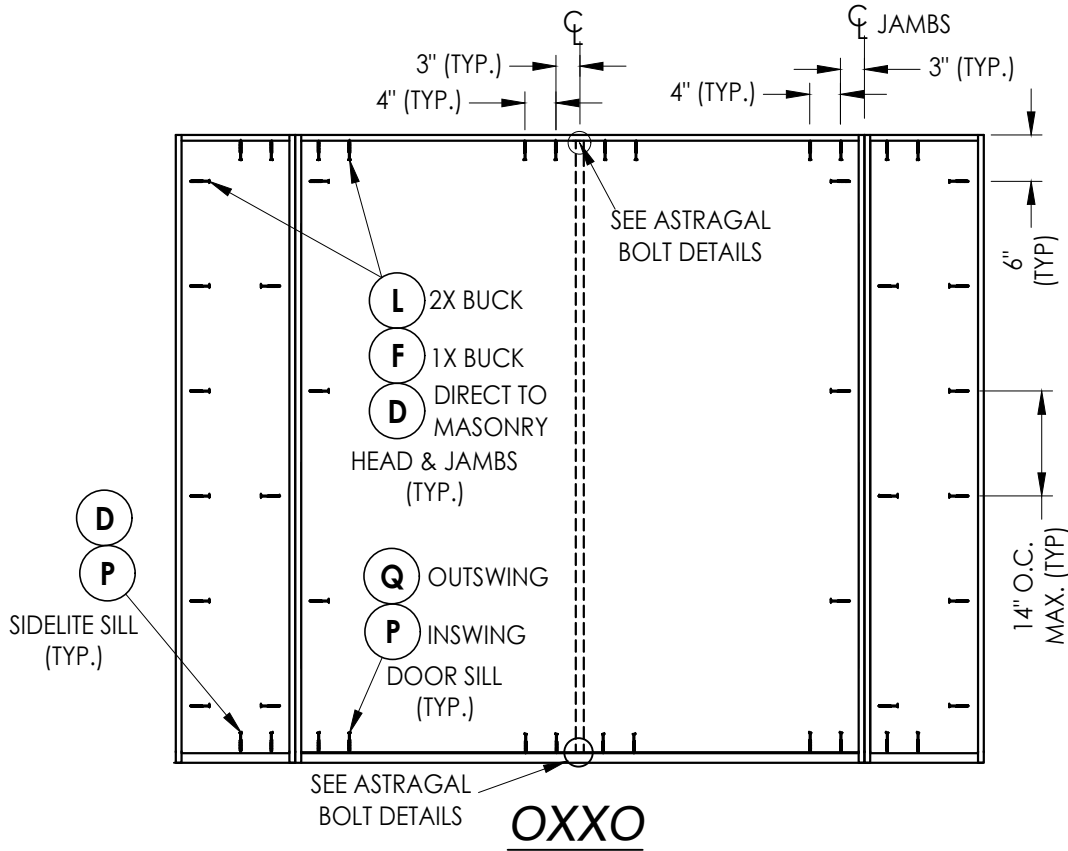
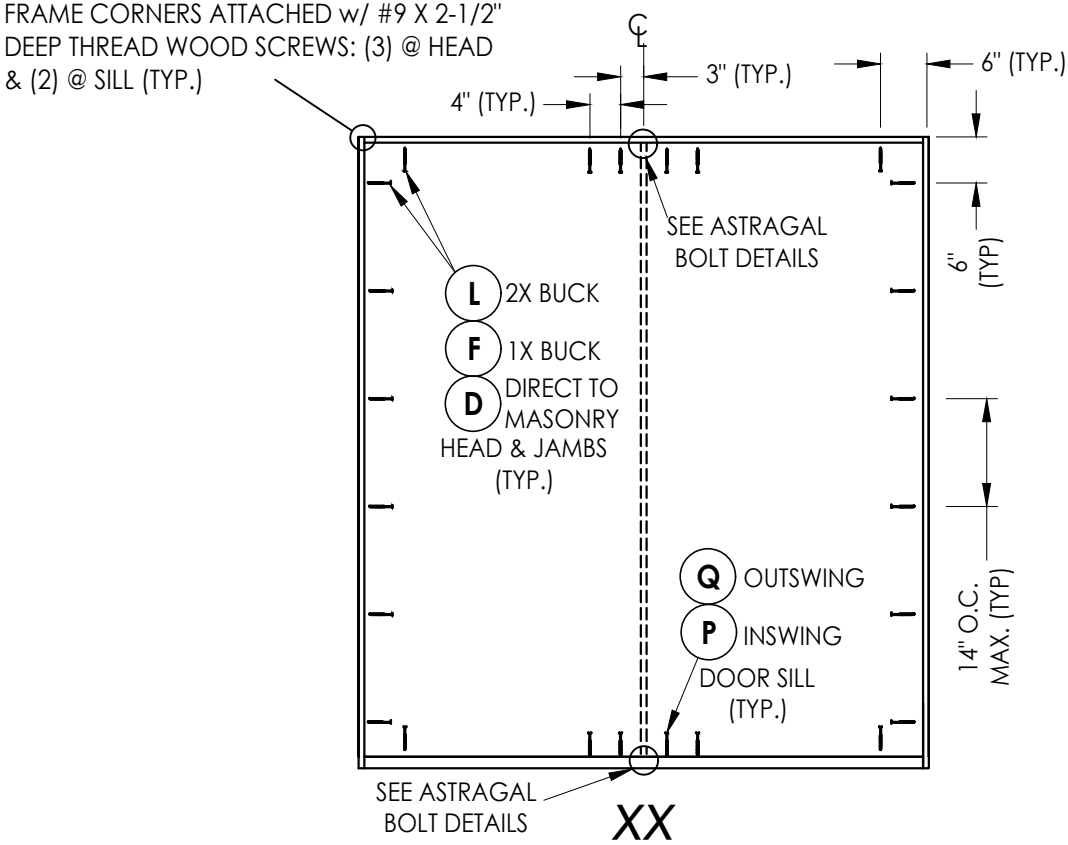
PRODUCT: 14 FIBERGLASS DOOR		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)	
		LFS	BY
		ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS	
		NO.	DATE
REVISIONS			
DATE: 2/15/24			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-46116.9			
SHEET 11 OF 14			



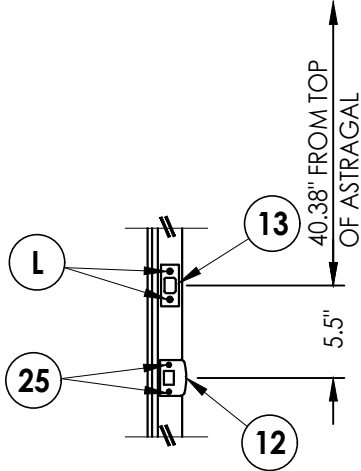
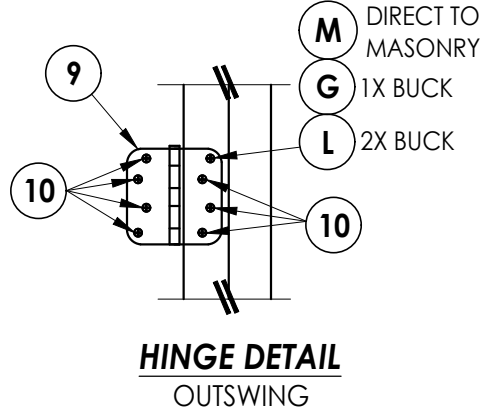
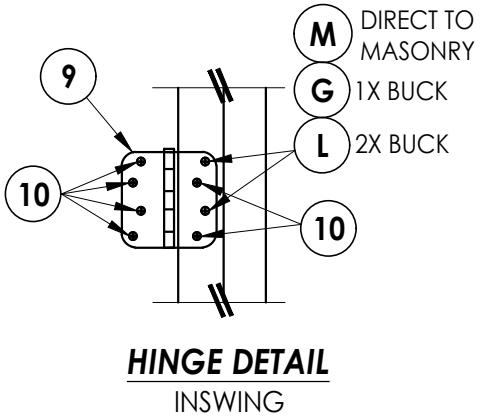
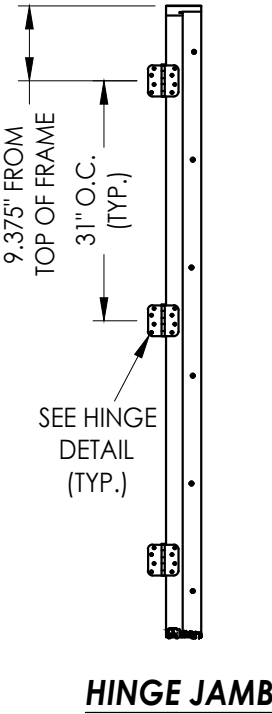
2X BUCK ANCHORING

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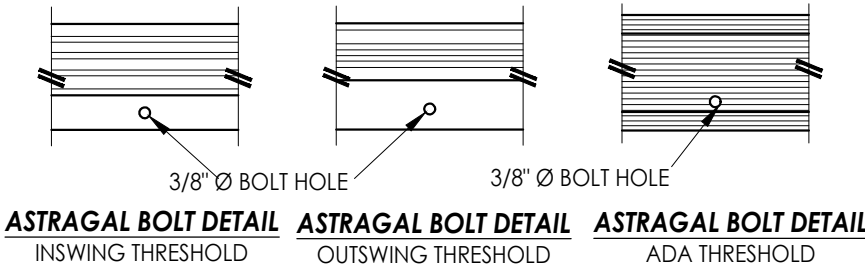
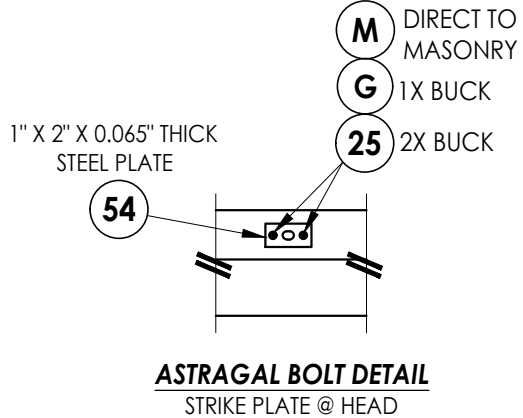
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FRAME ANCHORING



LATCH & DEADBOLT STRIKE PLATE DETAILS



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: ODL FIBERGLASS DOOR		PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS	
		LFS	BY
		ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS	
1	12/04/24	REVISIONS	
DATE: 2/15/24		SCALE: N.T.S.	
DWG. BY: LFS		CHK. BY: RW	
DRAWING NO.: FL-46116.9		SHEET 13 OF 14	

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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
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	INSWING SIDELITE BASE	PVC/ALUM
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	#10 X 2" PFH SMS	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
51	SIDELITE PANEL	-
53	ALUMINUM ASTRAGAL	ALUM
54	ASTRAGAL STRIKE PLATE	STEEL
55	8 X 1" PFH WS	STEEL

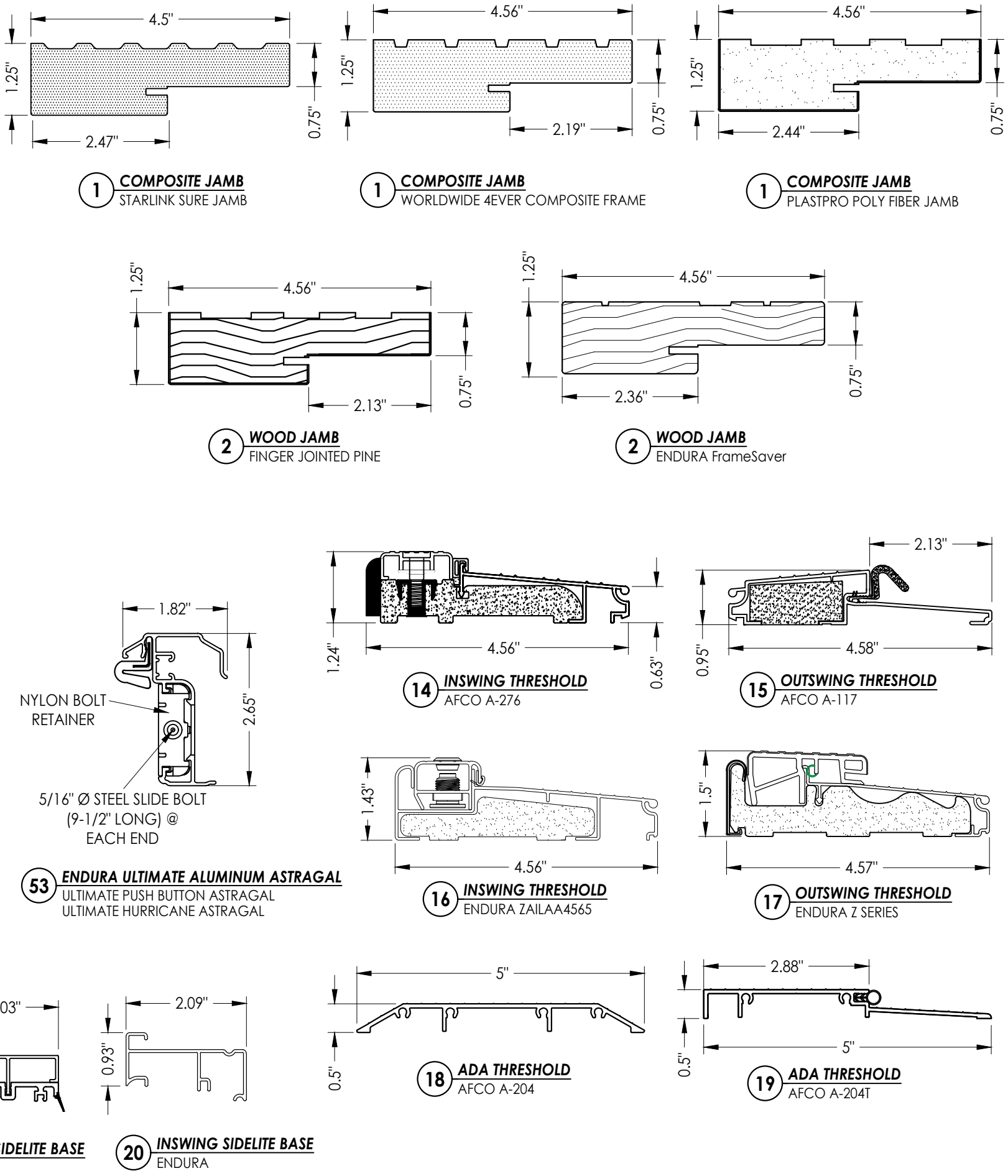
CONCRETE ANCHOR NOTES:

- 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.



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:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
1	12/04/24	ADD ALTERNATE JAMBS, ASTRAGAL, THRESHOLDS & GLAZING DETAILS

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-46116.9

SHEET 14 OF 14