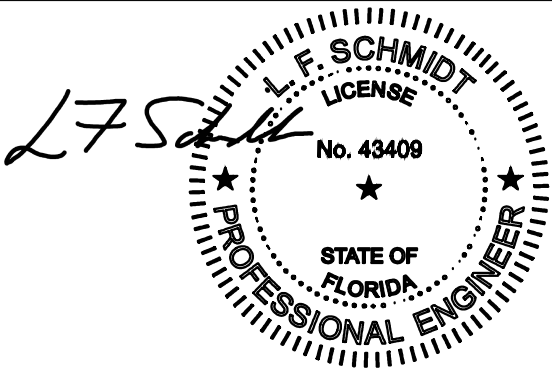




215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464



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

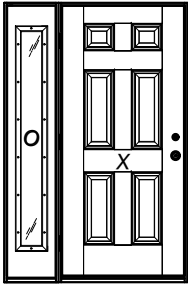
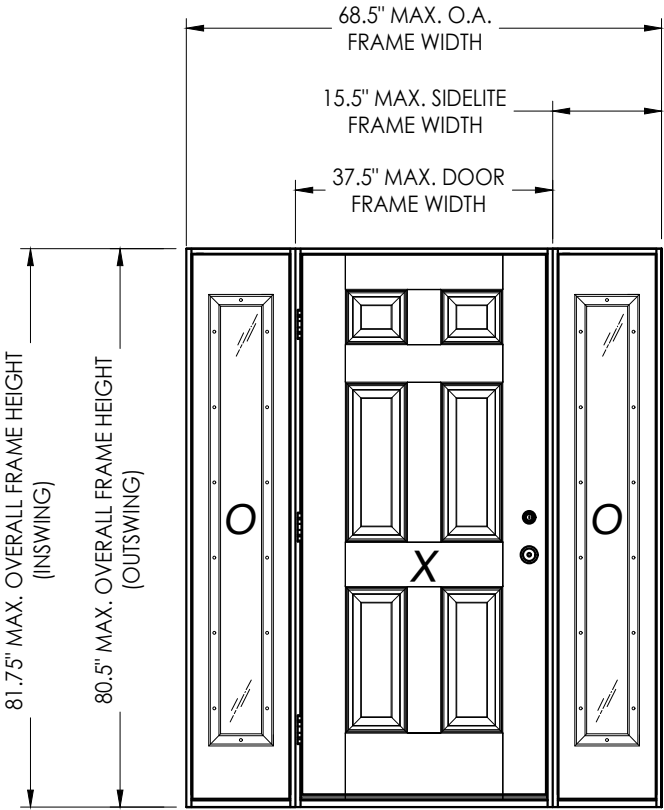
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

OPAQUE FIBERGLASS DOOR SINGLE w/ SIDELITE(S)

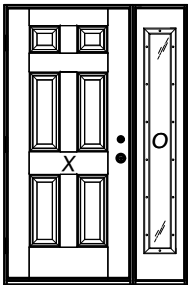
INSWING/OUTSWING "IMPACT"

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.



OX, XO



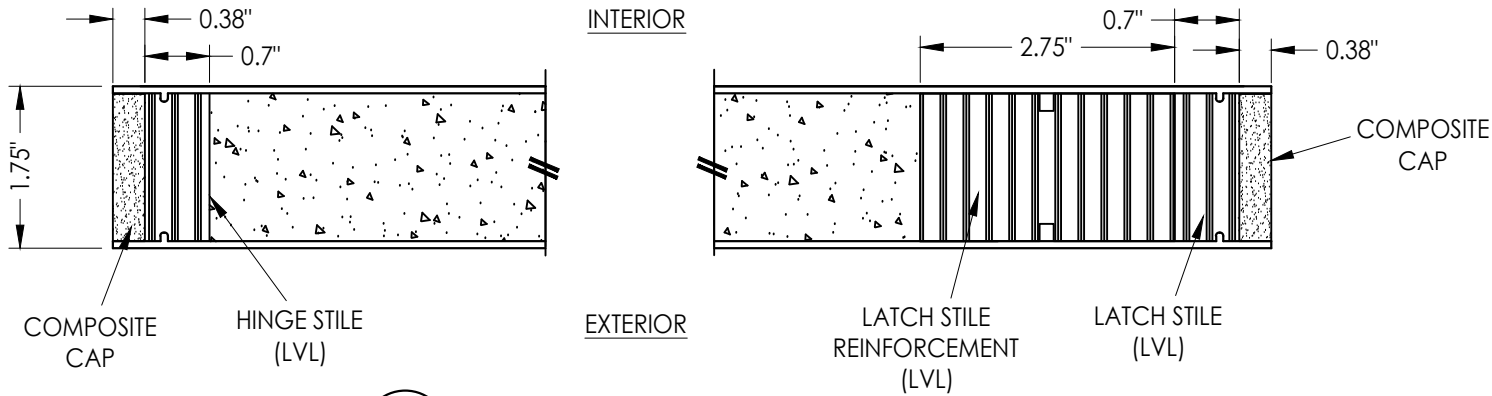
XO, OX

TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	
1	Typical Elevations, Design Pressures & General Notes	8	Horizontal & Vertical Cross Sections (2X Buck)
2	Door Panel Details	9	Horizontal & Vertical Cross Sections (1X Buck)
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

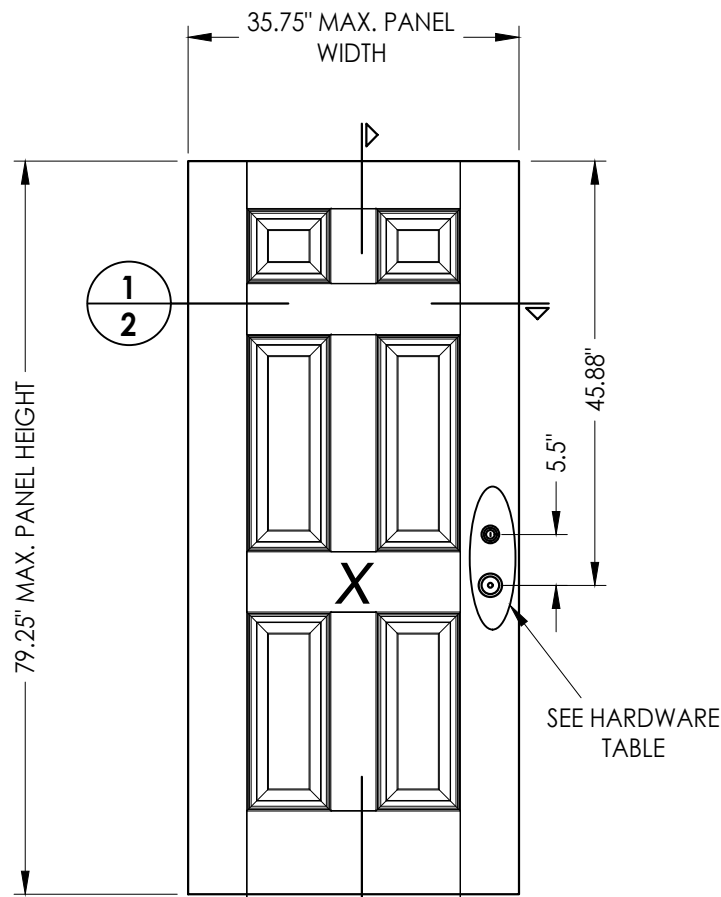
CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OX, XO	53.0" x 81.75"	+50.0	-50.0	+50.0	-50.0
OXO	68.5" x 81.75"	+50.0	-50.0	+50.0	-50.0

PRODUCT:	ODL FIBERGLASS DOOR		PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
				LFS	BY
				ADD OPT. GLAZING DETAILS	
				NO. 1	DATE
					REVISIONS
DATE: 2/15/24					
SCALE: N.T.S.					
DWG. BY: LFS					
CHK. BY: RW					
DRAWING NO.: FL-46116.7					
SHEET 1 OF 14					

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg



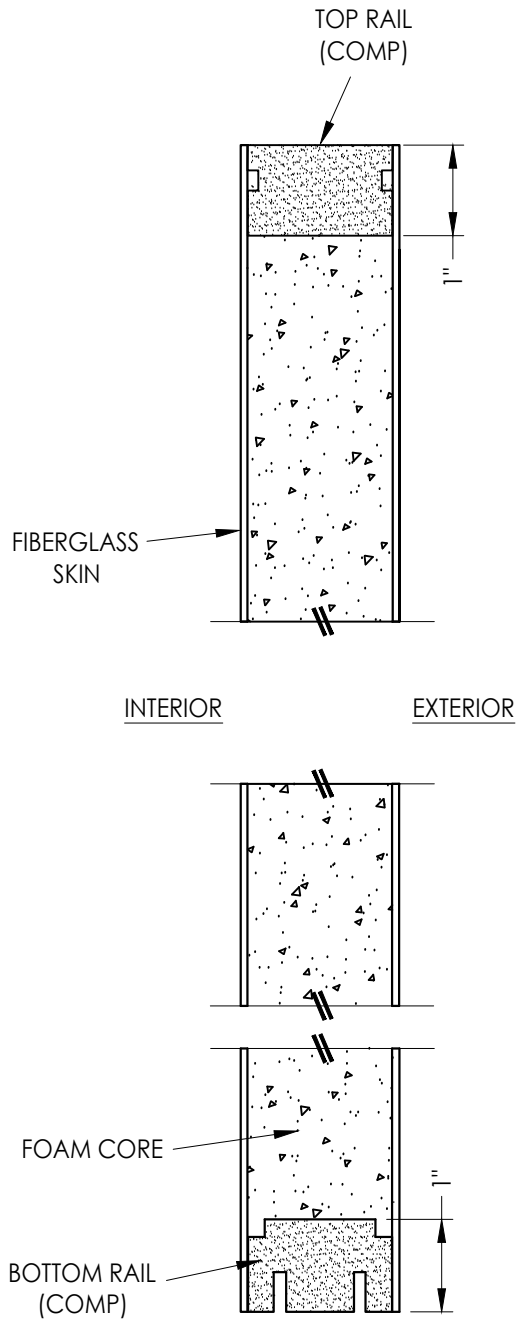
1
2 **HORIZONTAL CROSS SECTION**



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

PRODUCT: ODL
FIBERGLASS DOOR

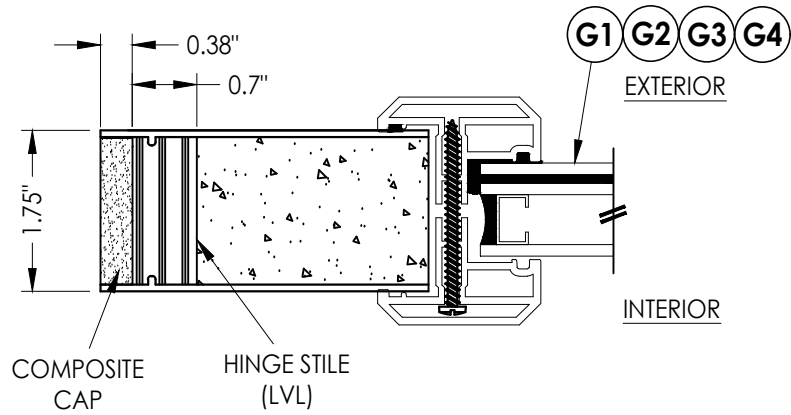
PART OR ASSEMBLY:
DOOR
PANEL DETAILS

NO.	DATE	ADD OPT. GLAZING DETAILS	LFS	BY
1	12/04/24			

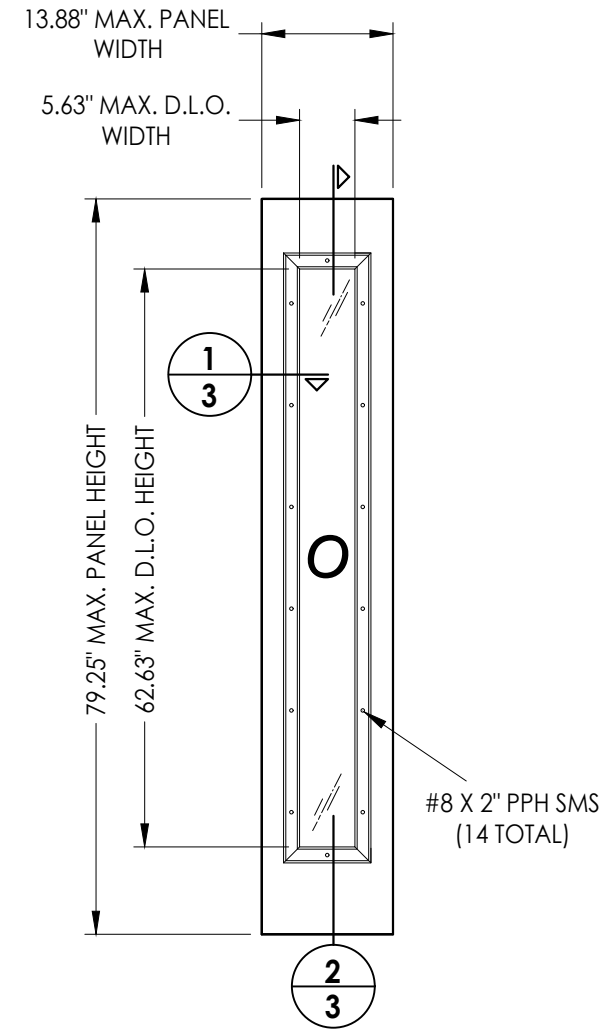
REVISIONS

DATE: 2/15/24
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-46116.7
SHEET 2 OF 14

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg

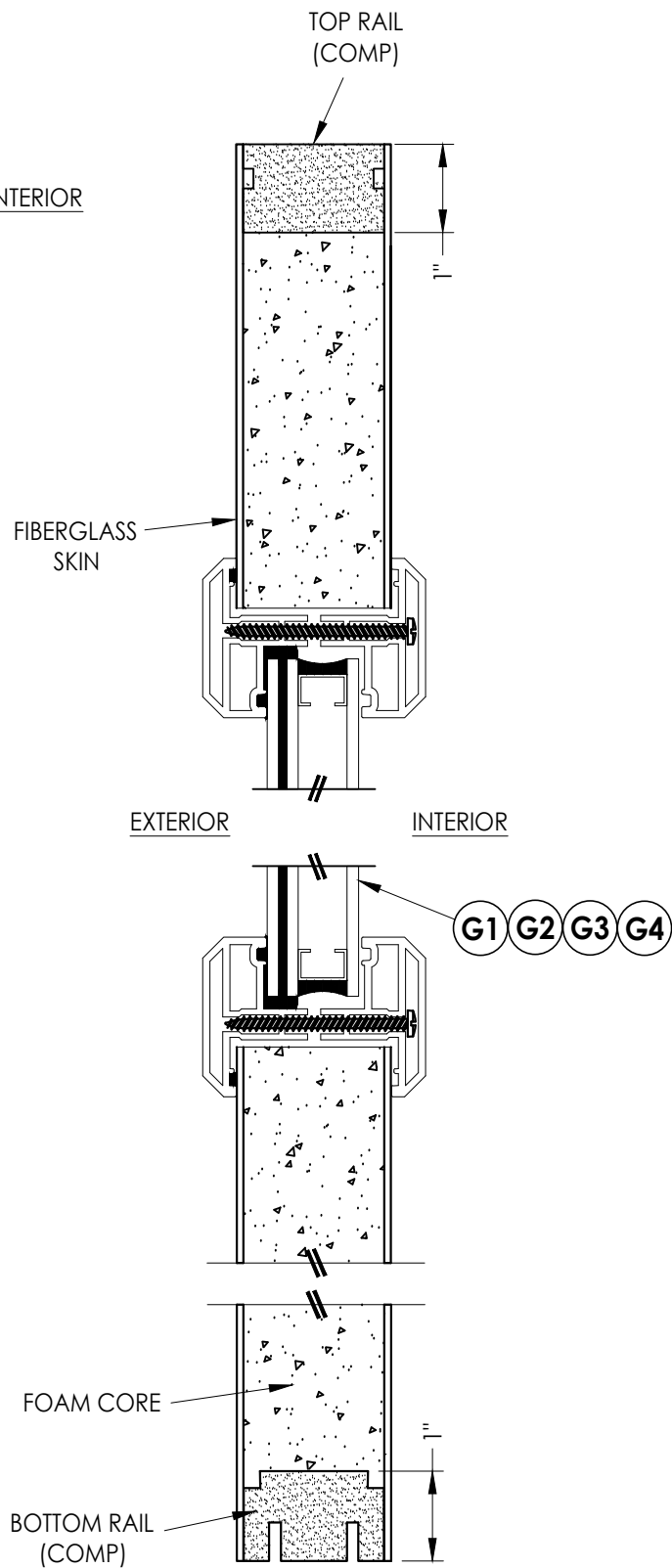


1
3 HORIZONTAL CROSS SECTION

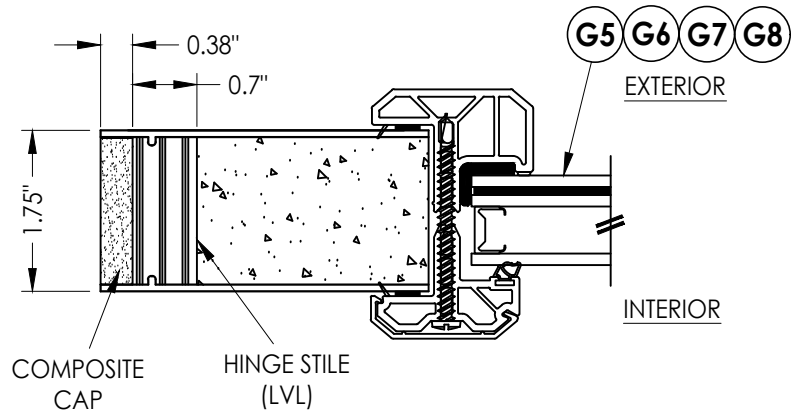


50 FIBERGLASS SIDELITE PANEL
ODL w/ FLAT ALUM. LITE FRAME

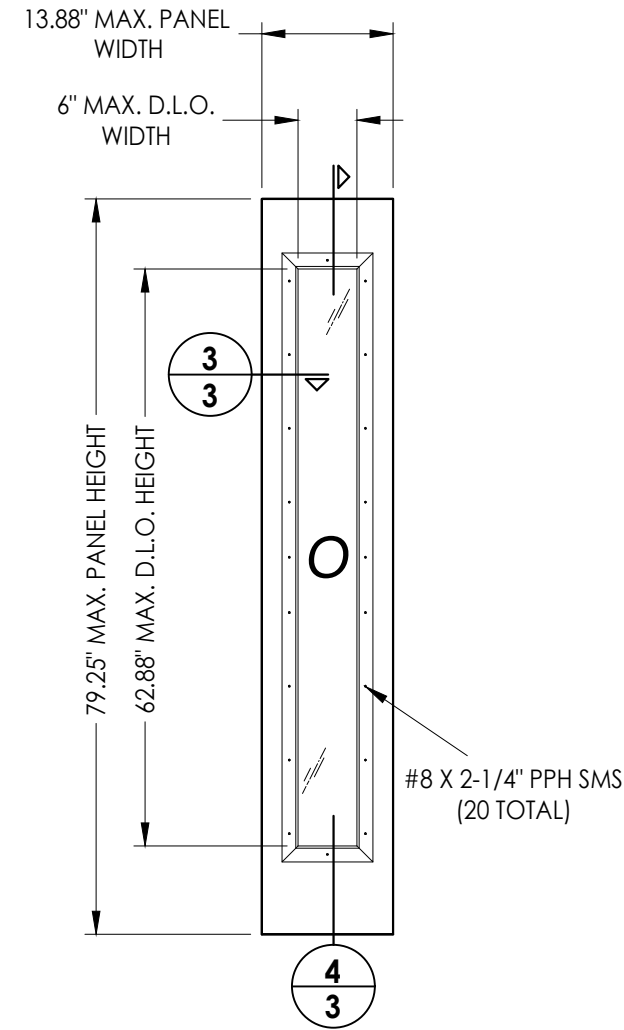
FIBERGLASS SKIN: 0.070" MIN. THK.
FOAM CORE: POLYURETHANE (1.9 PCF MIN.)



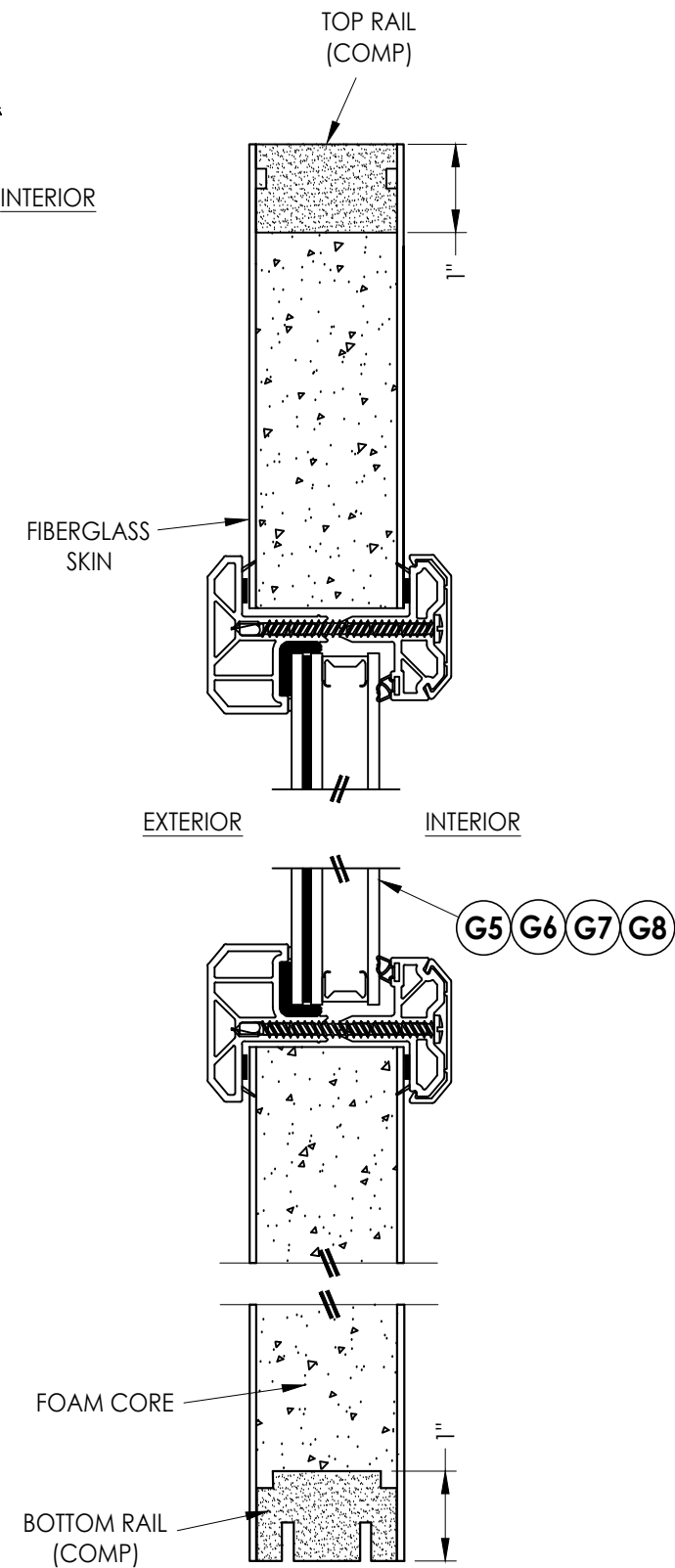
2
3 VERTICAL CROSS SECTION



3
3 HORIZONTAL CROSS SECTION



51 FIBERGLASS SIDELITE PANEL
ODL w/ KEYSTONE PVC LITE FRAME



4
3 VERTICAL CROSS SECTION

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:
SIDELITE PANEL
DETAILS

NO.	DATE	ADD OPT. GLAZING DETAILS	BY
1	12/04/24	LFS	BY

DATE: 2/15/24
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-46116.7
SHEET 3 OF 14

NON-STRUCTURAL BACK BEDDING SEALANT (READI-SEAL)

5/8" GLASS BITE

DOW 995 STRUCTURAL SILICONE

1" O.A. THICK GLASS

1/8" ANNEALED GLASS

0.090" SAFLEX® PVB INTERLAYER

1/8" ANNEALED GLASS

AIR SPACE

1/8" TEMPERED GLASS

4A

INTERCEPT SPACER (TIN PLATED STEEL)

#8 X 2" PPH SMS (14 TOTAL)

G1 GLAZING DETAIL
CLEAR GLAZING

NON-STRUCTURAL BACK BEDDING SEALANT (READI-SEAL)

DOW 995 STRUCTURAL SILICONE

5/8" GLASS BITE

1" O.A. THICK GLASS

1/8" ANNEALED GLASS

0.090" SAFLEX® PVB INTERLAYER

1/8" ANNEALED GLASS

GRID BETWEEN GLASS

AIR SPACE

1/8" TEMPERED GLASS

INTERCEPT SPACER (TIN PLATED STEEL)

#8 X 2" PPH SMS (14 TOTAL)

4A

G2 GLAZING DETAIL

GRIDS BETWEEN GLASS

Diagram illustrating the cross-section of a decorative glazing detail (G3) showing the assembly of glass, sealant, and structural components.

Labels and components shown in the diagram:

- NON-STRUCTURAL BACK BEDDING SEALANT (READI-SEAL)
- 5/8" GLASS BITE
- DOW 995 STRUCTURAL SILICONE
- 1" O.A. THICK GLASS
- 1/8" ANNEALED GLASS
- 0.090" SAFLEX® PVB INTERLAYER
- 1/8" ANNEALED GLASS
- DECORATIVE INSERT
- AIR SPACE
- 1/8" TEMPERED GLASS
- SURROUND (BOTTOM OUT IN GROVE)
- POLYSULFIDE
- #8 X 2" PPH SMS (14 TOTAL)
- 4A
- G3 **GLAZING DETAIL** DECORATIVE

4A **ODL FLAT ALUMINUM LITE FRAME**
1" GLAZING

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

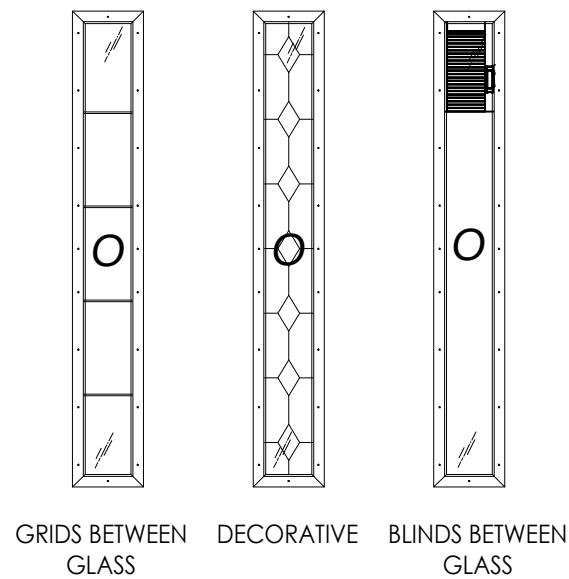
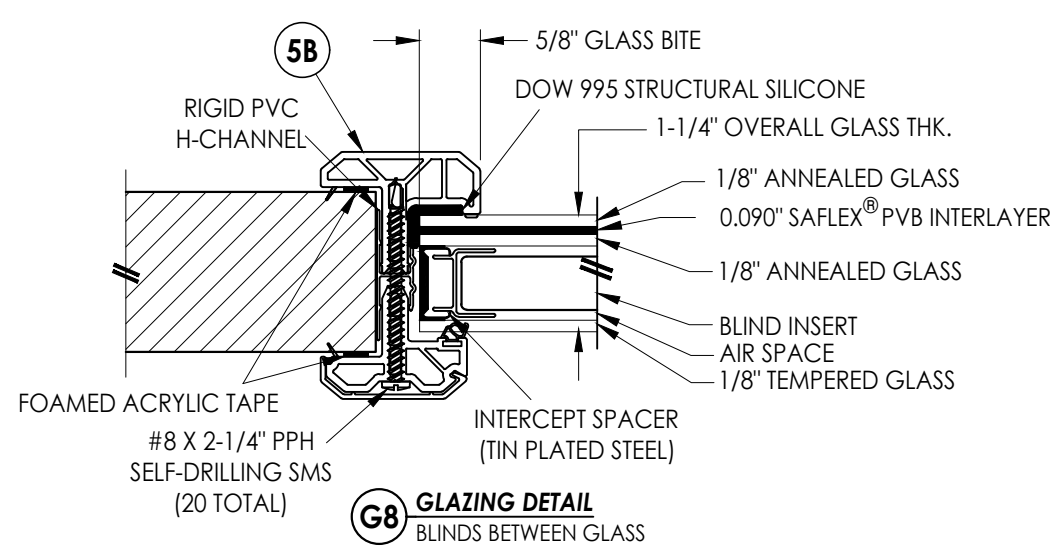
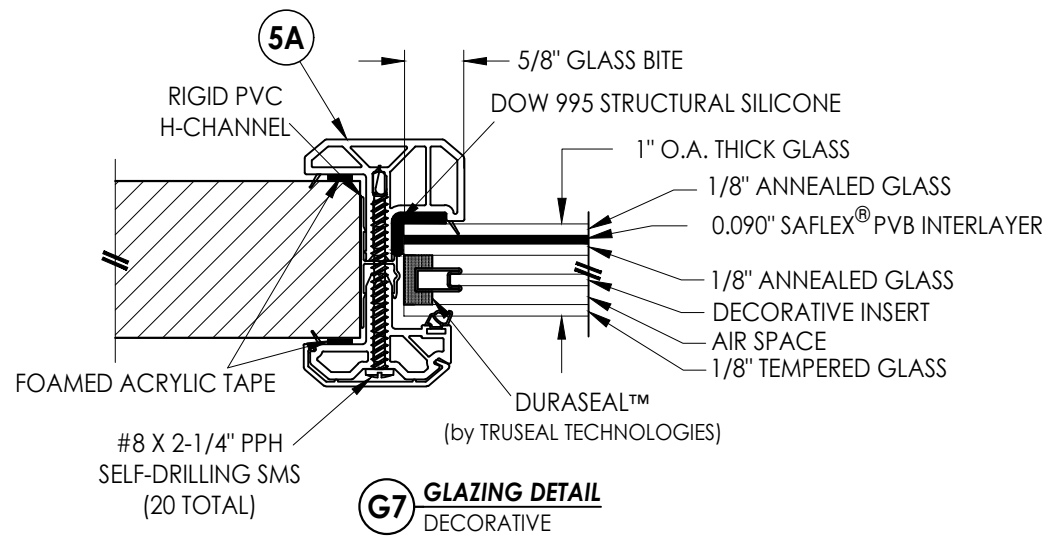
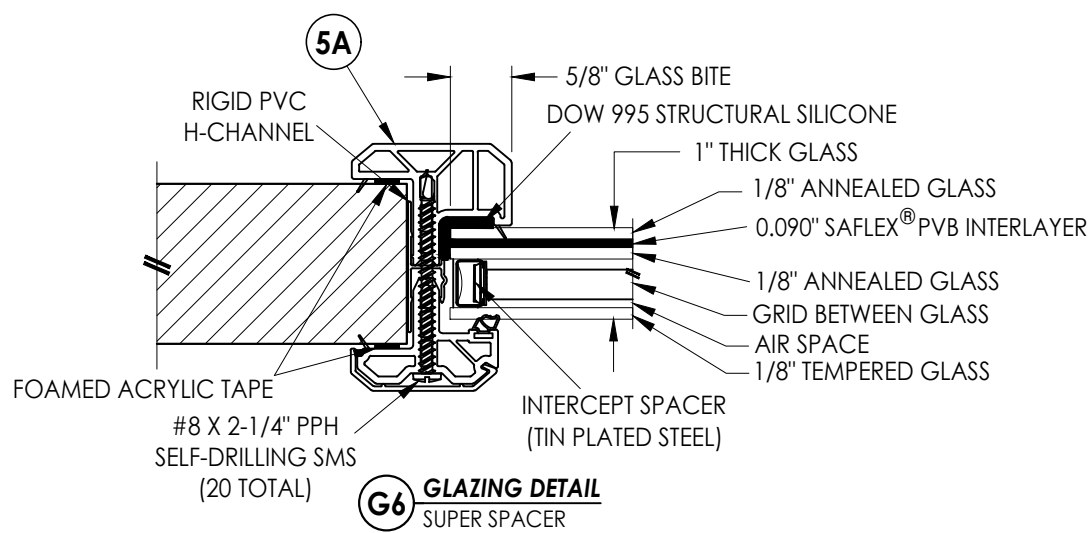
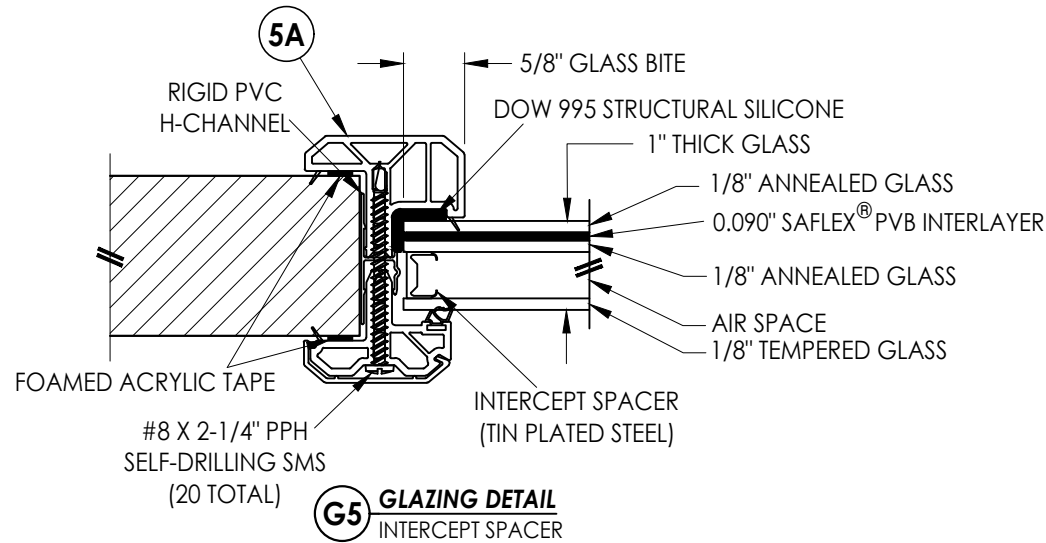
[illegible]

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

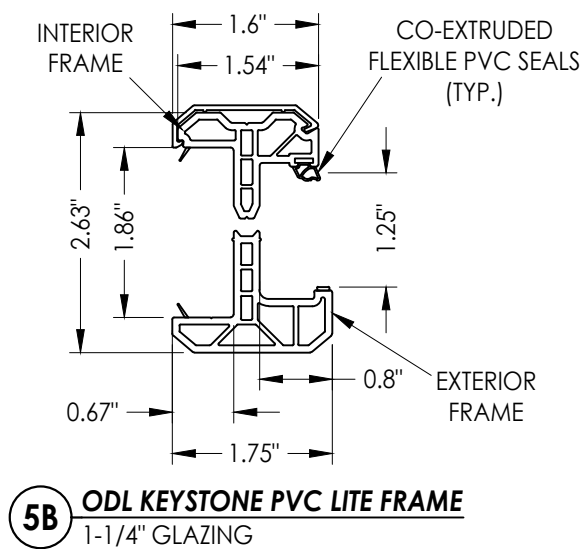
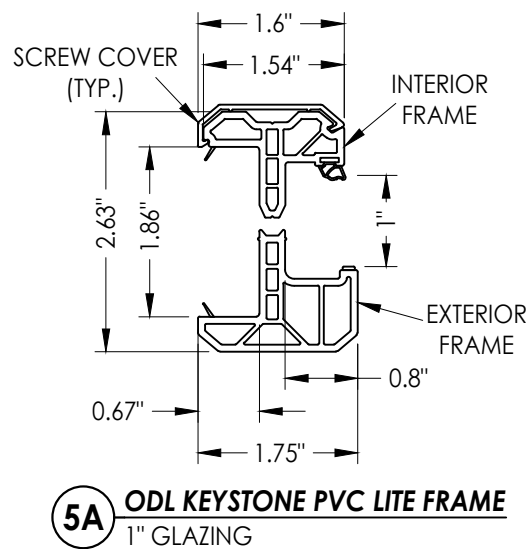
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

© 2024 R.W. BUILDING CONSULTANTS INC.

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg



ALTERNATE GLAZING DETAILS



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:
LITE FRAME GLAZING DETAILS
(KEYSTONE PVC FRAME)

NO.	DATE	ADD OPT. GLAZING DETAILS	LFS	BY
1	12/04/24			

DATE: 2/15/24

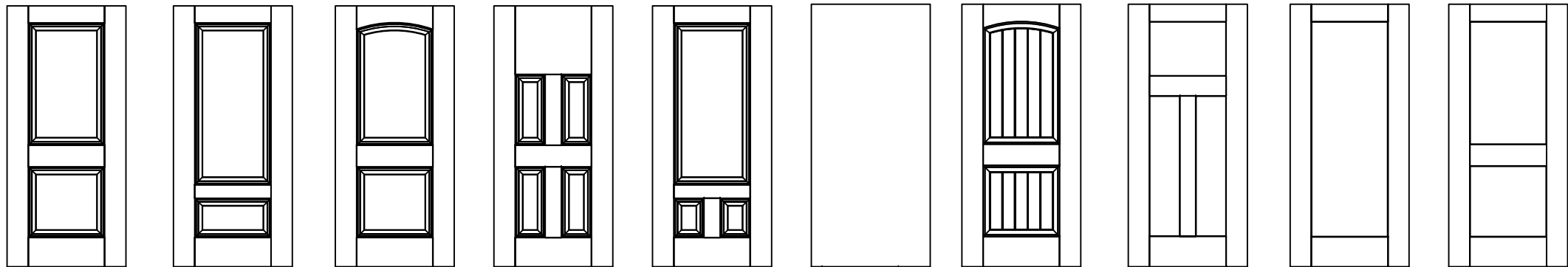
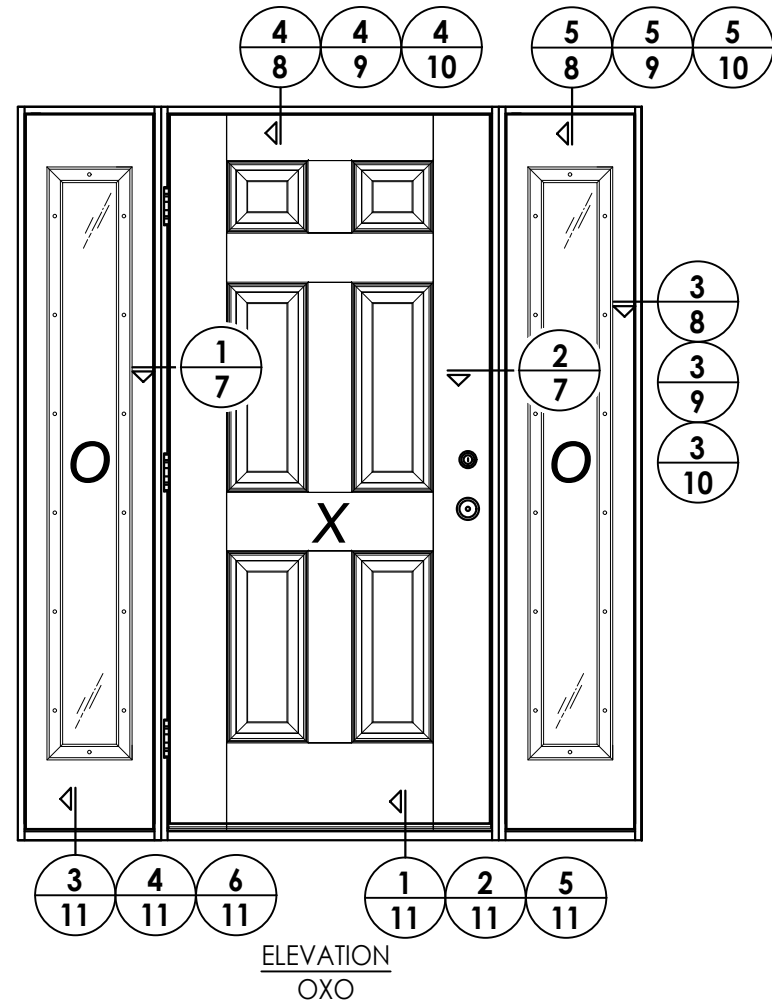
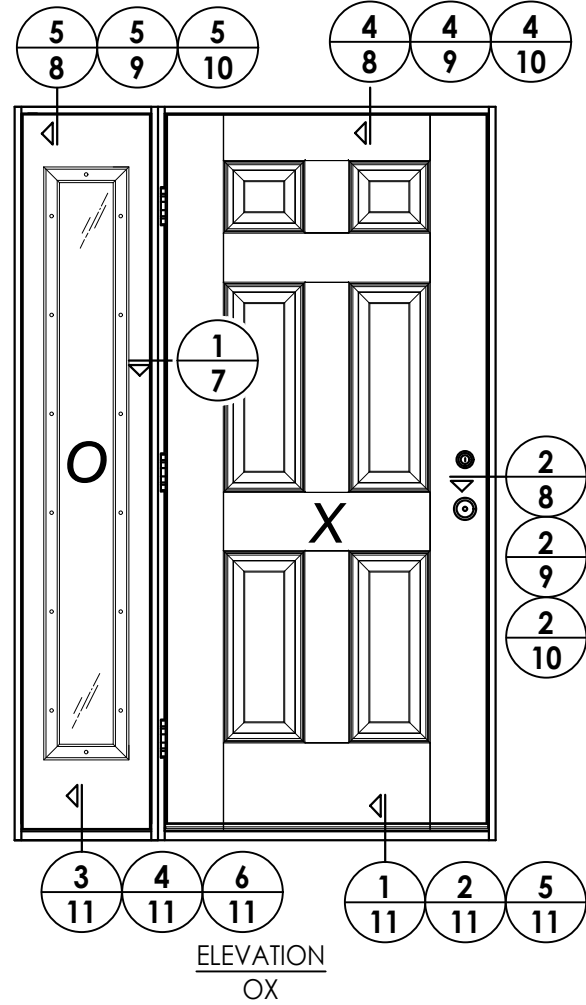
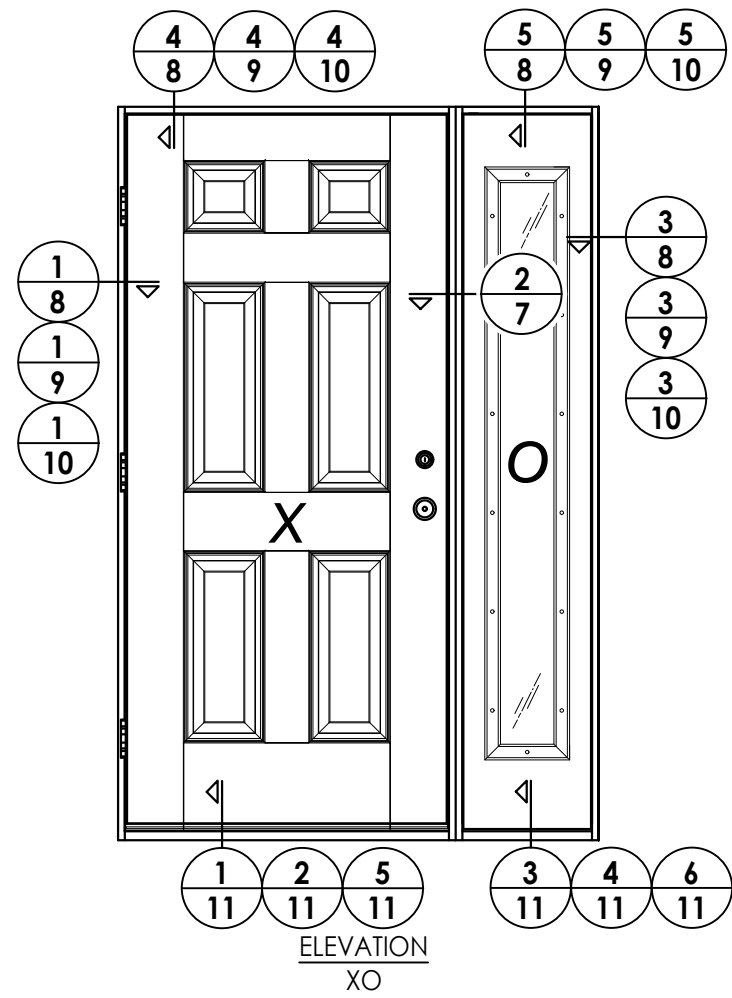
SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:
FL-46116.7

SHEET 5 OF 14



ALTERNATE DOOR PANELS

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

R^W 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:
ELEVATIONS

[illegible]

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: *LFS*

CHK. BY: *RW*

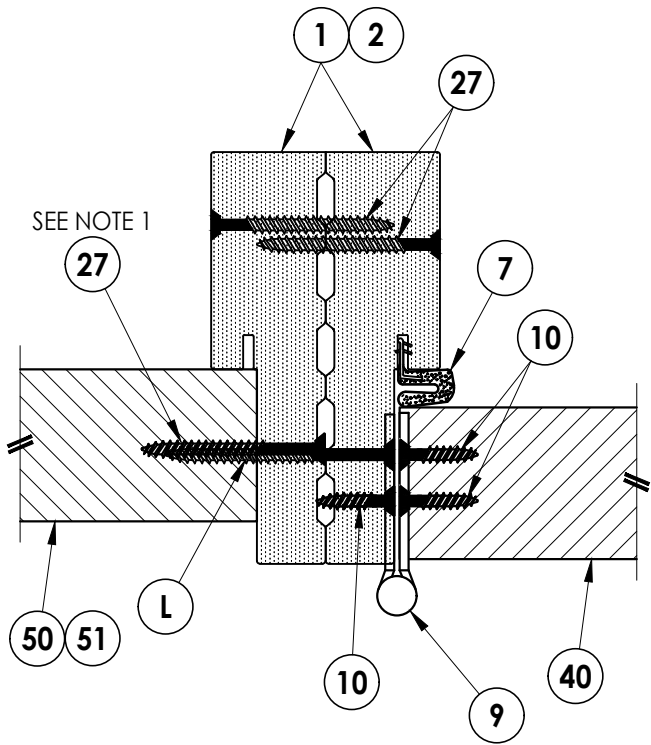
DRAWING NO.:

FL-46116.7

SHEET 6 OF 14

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg

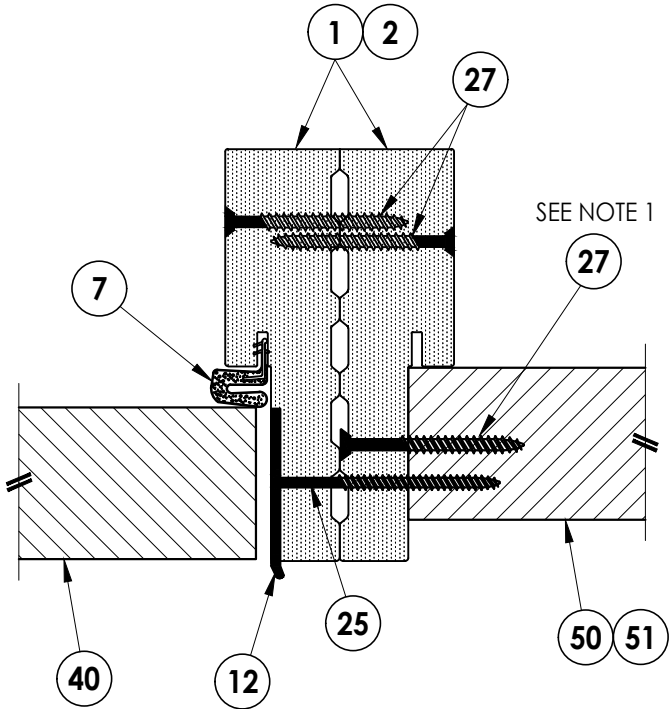
Notes:
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).



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

EXTERIOR

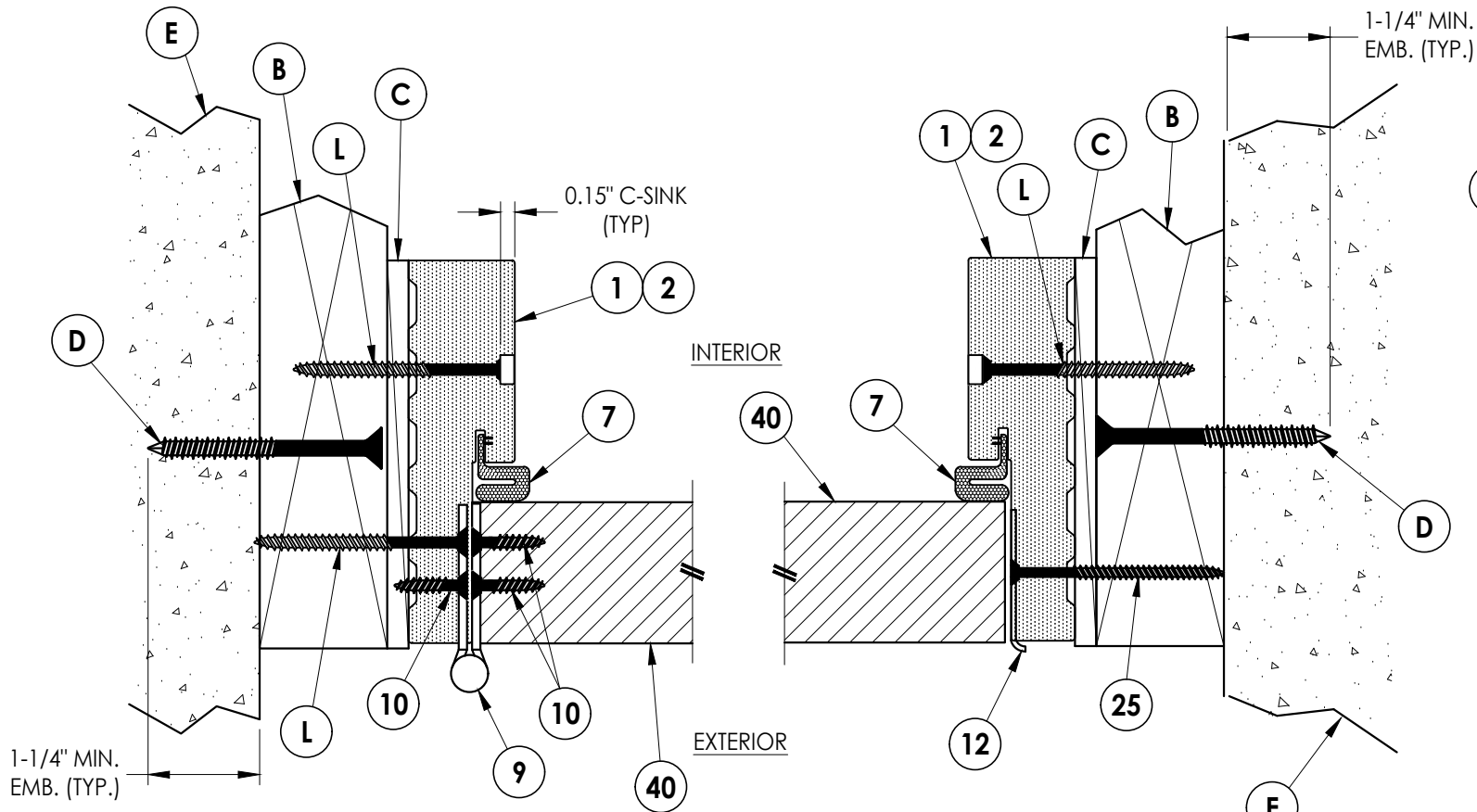
INTERIOR



2 **HORIZONTAL CROSS SECTION**
7 Outswing Shown (Inswing Similar)

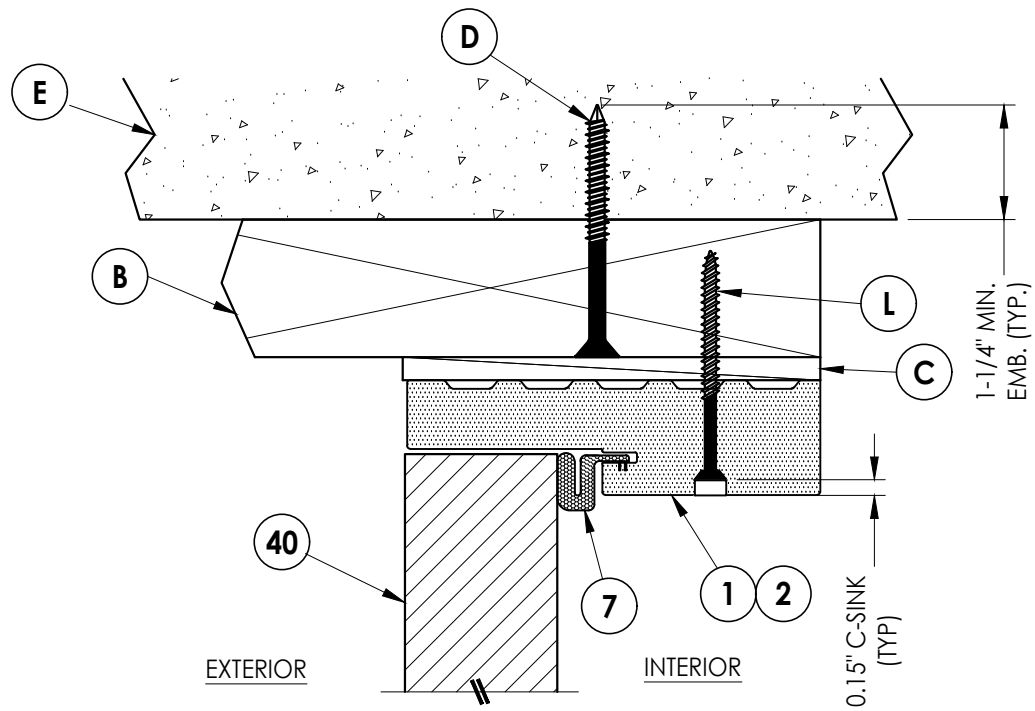
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: ODL FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
		LFS	
		BY	
		REVISIONS	
		1 12/04/24 ADD OPT. GLAZING DETAILS	
		NO. DATE	
DATE: 2/15/24			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-46116.7			
SHEET 7 OF 14			

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg

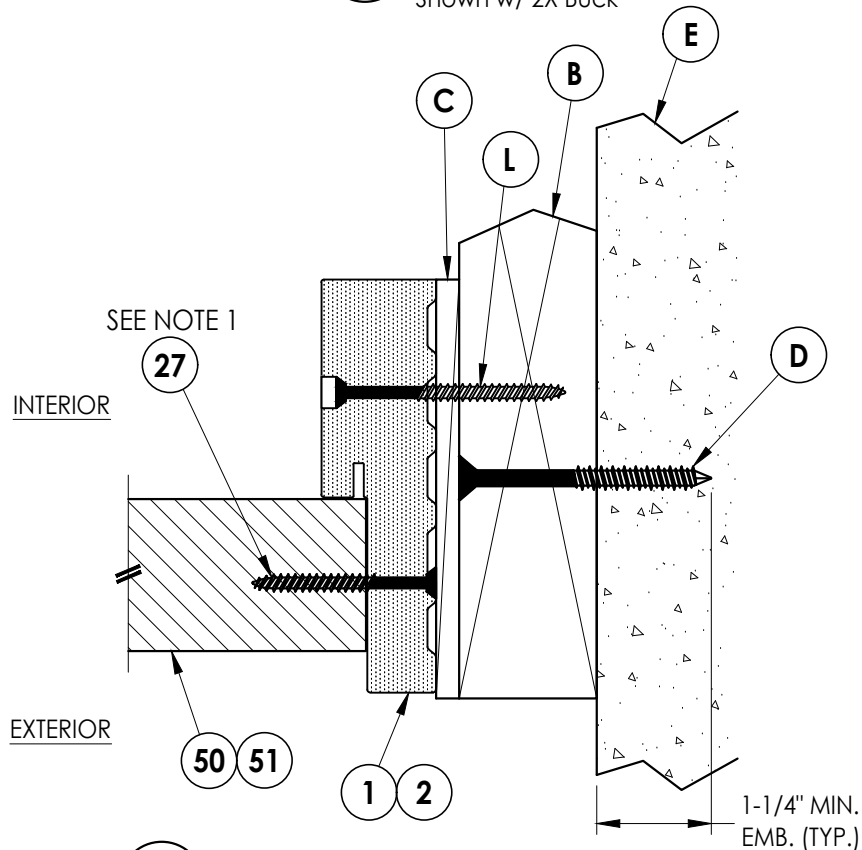


1
8 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X Buck

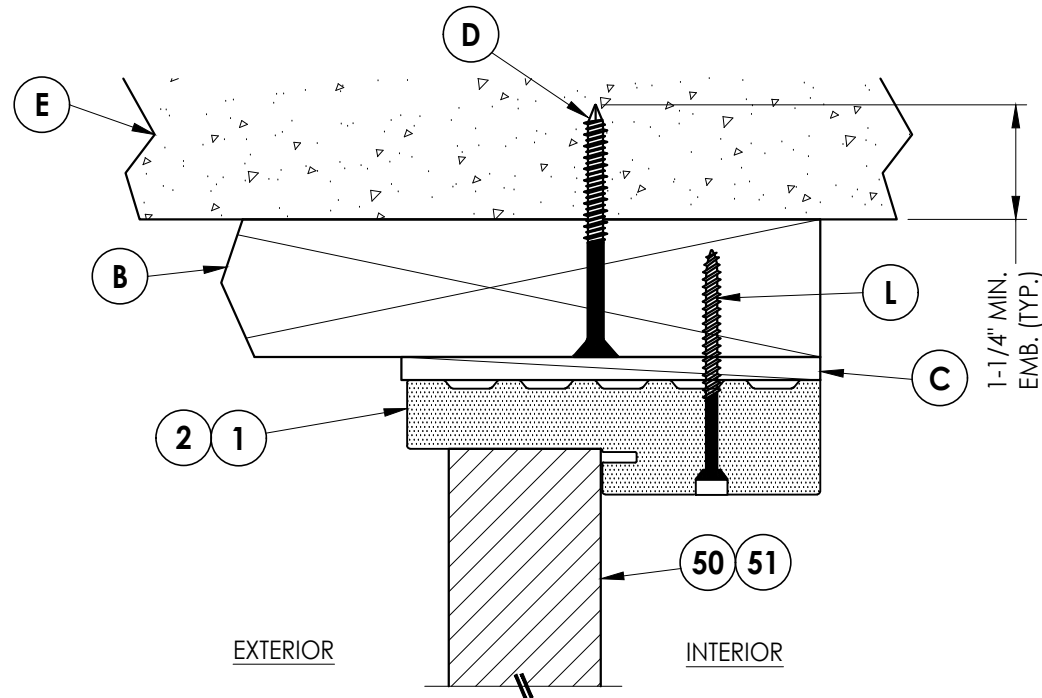
2
8 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X Buck



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



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



5
8 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 2X Buck

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: ODL
FIBERGLASS DOOR

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

NO.	DATE	ADD OPT. GLAZING DETAILS	LFS	BY
1	12/04/24			

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

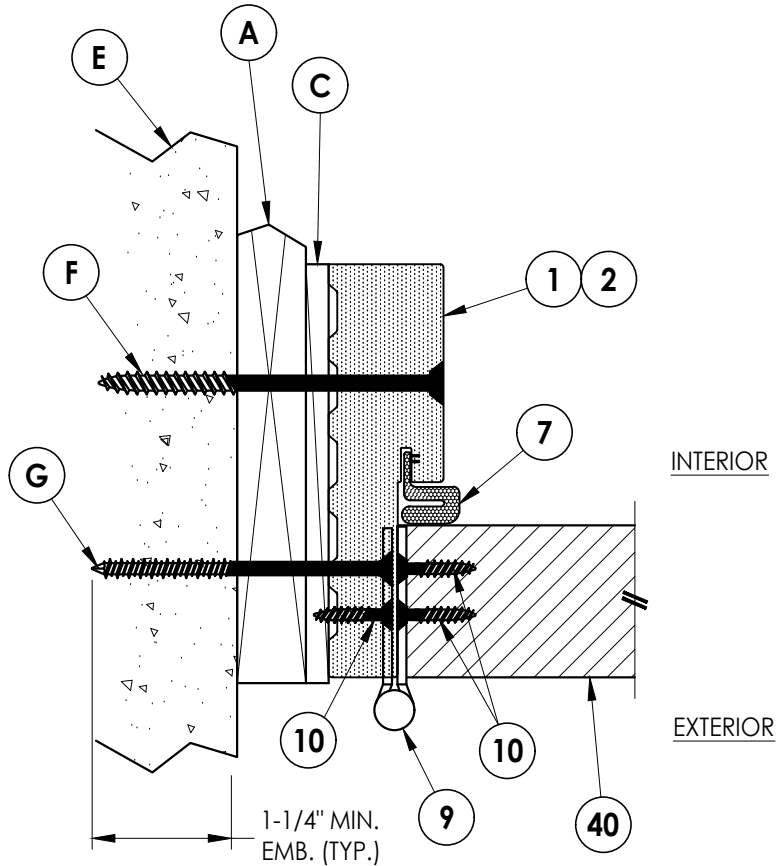
CHK. BY: RW

DRAWING NO.:

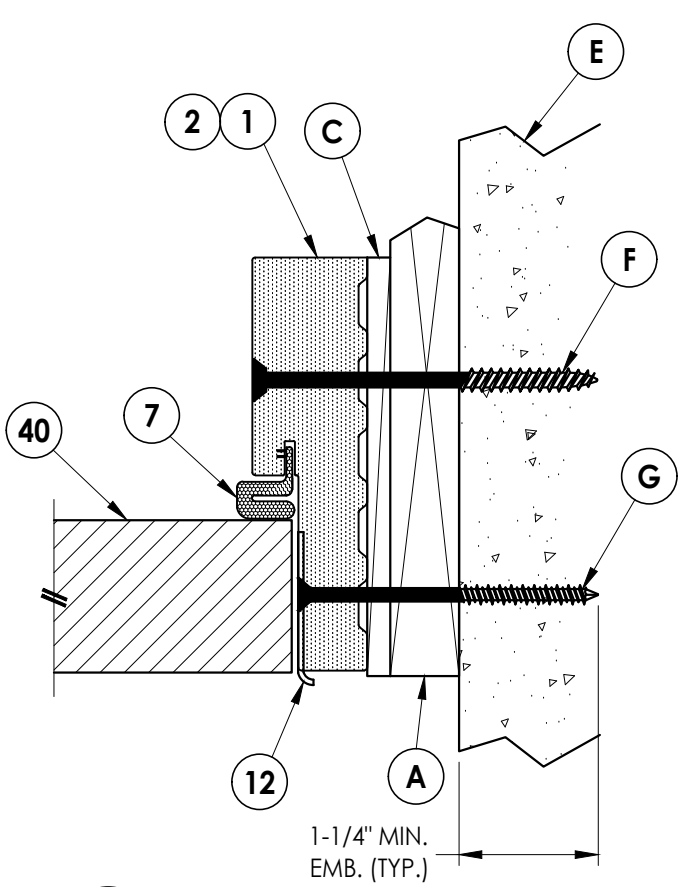
FL-46116.7

SHEET 8 OF 14

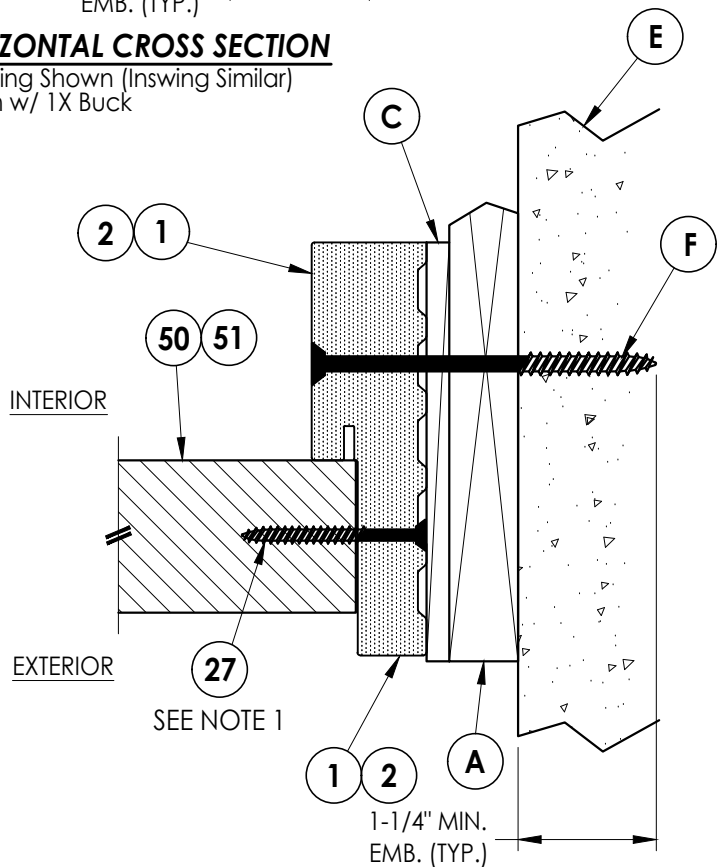
Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg



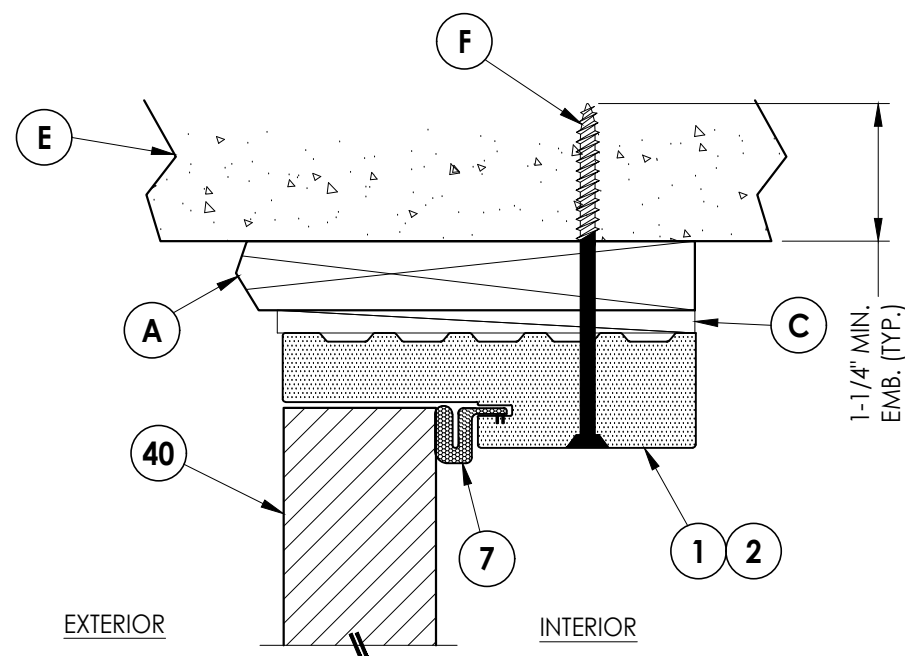
1
9 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



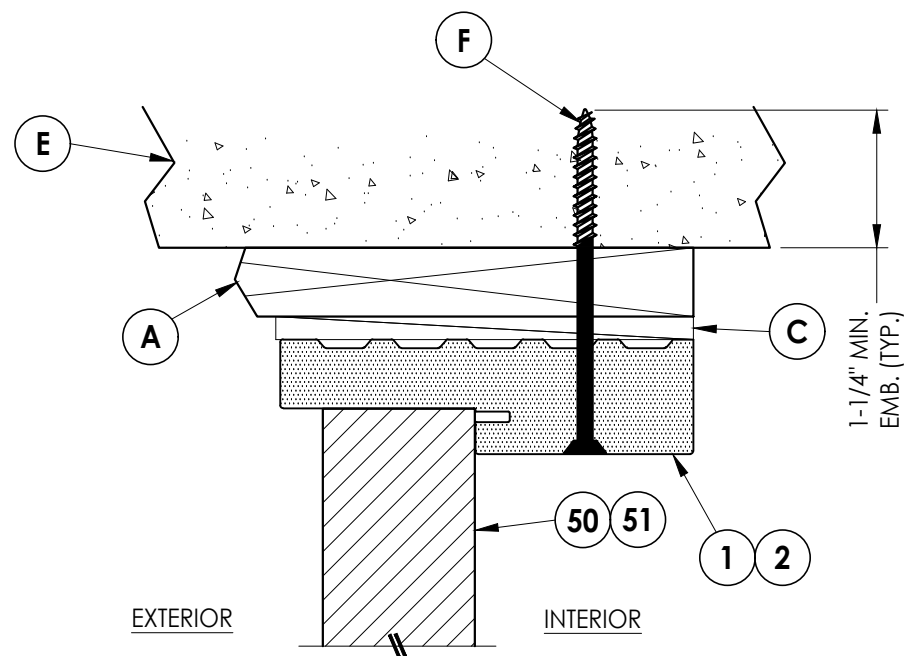
2
9 **HORIZONTAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



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



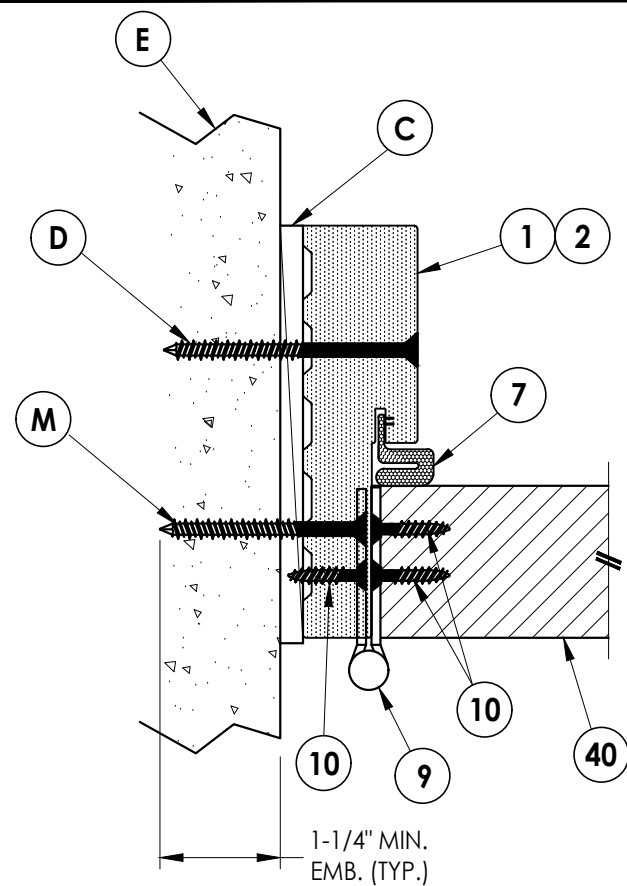
4
9 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck



5
9 **VERTICAL CROSS SECTION**
Outswing Shown (Inswing Similar)
Shown w/ 1X Buck

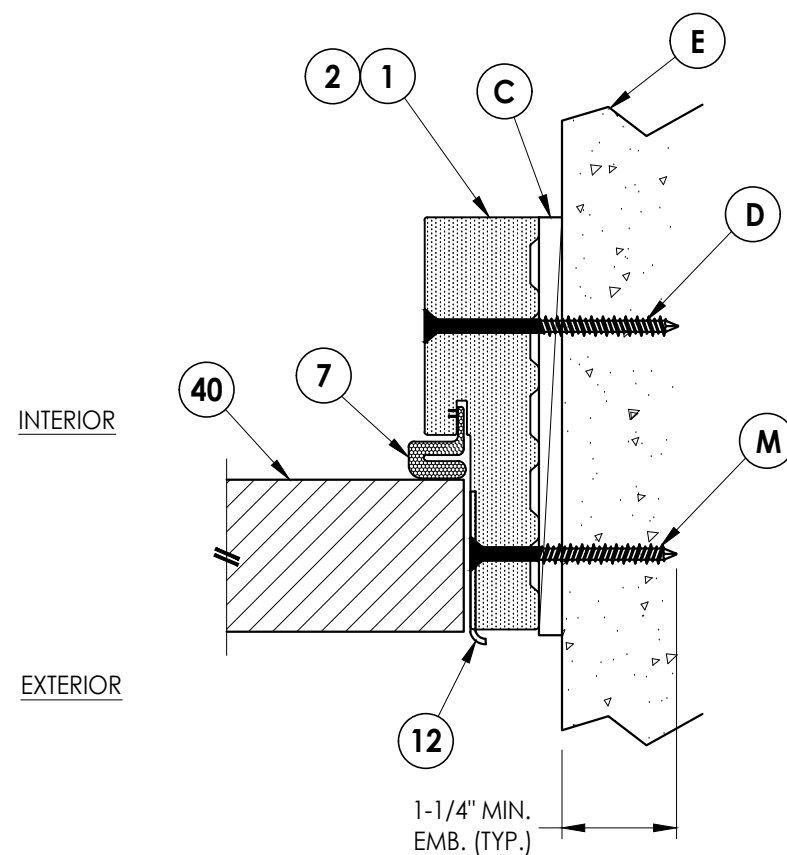
Note:
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		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 (1X BUCK)	
		LFS	BY
		12/04/24	ADD OPT. GLAZING DETAILS
		NO.	DATE
DATE: 2/15/24		REVISIONS	
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-46116.7			
SHEET 9 OF 14			



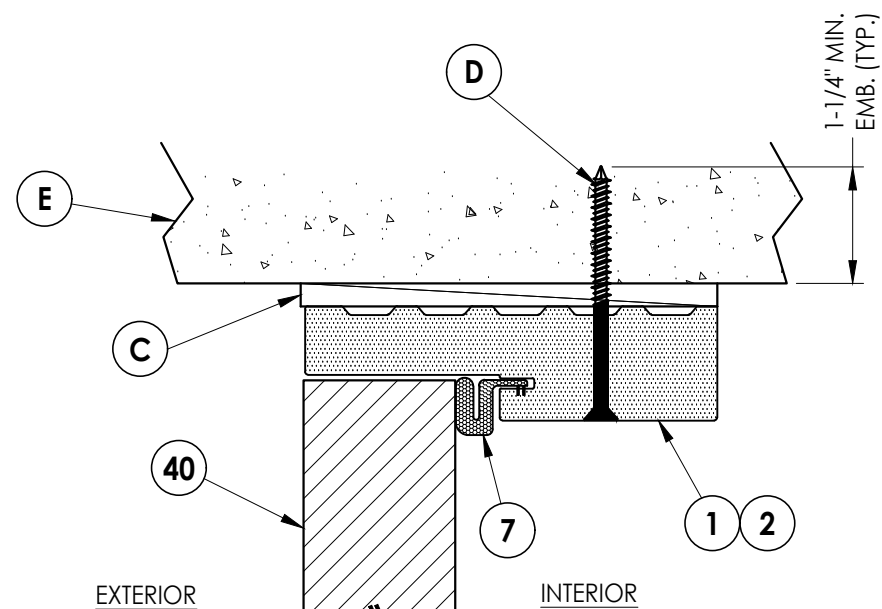
1 10 **HORIZONTAL CROSS SECTION**

Outswing Shown (Inswing Similar)
Shown Direct to Masonry

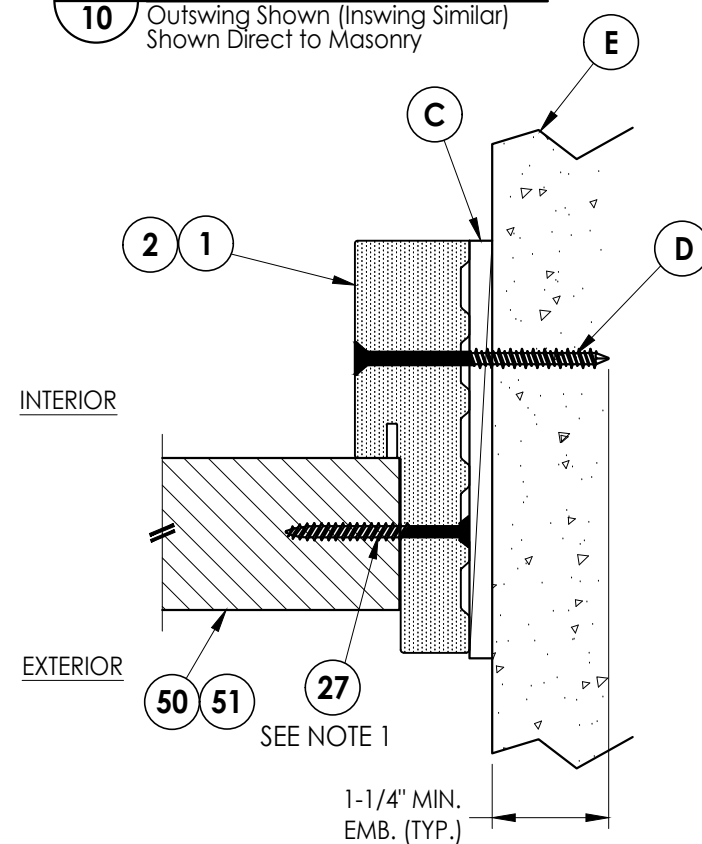


2 10 **HORIZONTAL CROSS SECTION**

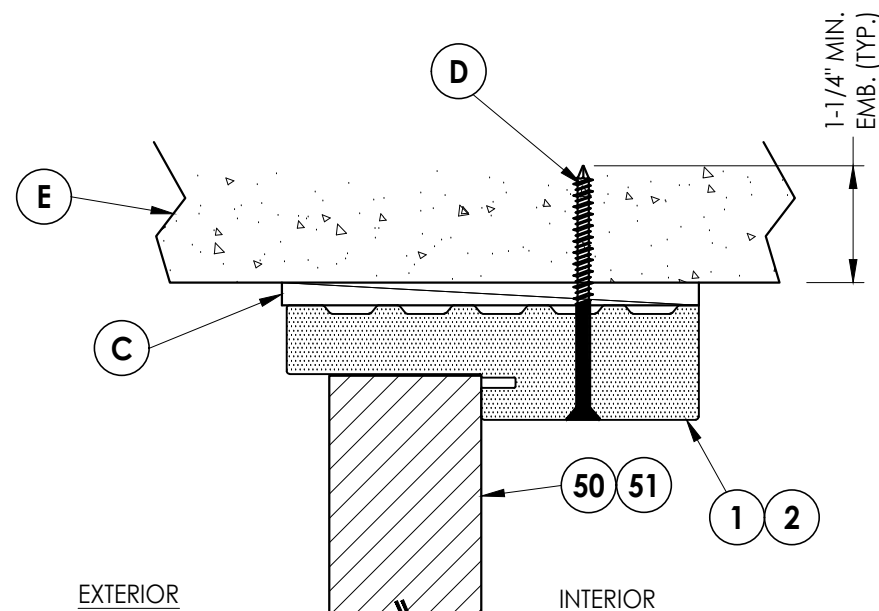
Outswing Shown (Inswing Similar)
Shown Direct to Masonry



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



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



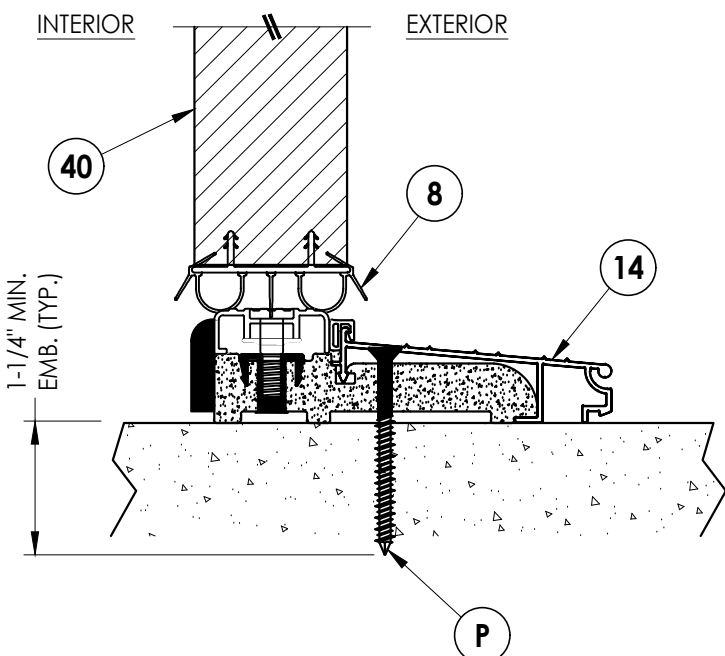
5 **VERTICAL CROSS SECTION**
10 Outswing Shown (Inswing Similar)
Shown Direct to Masonry

Note:

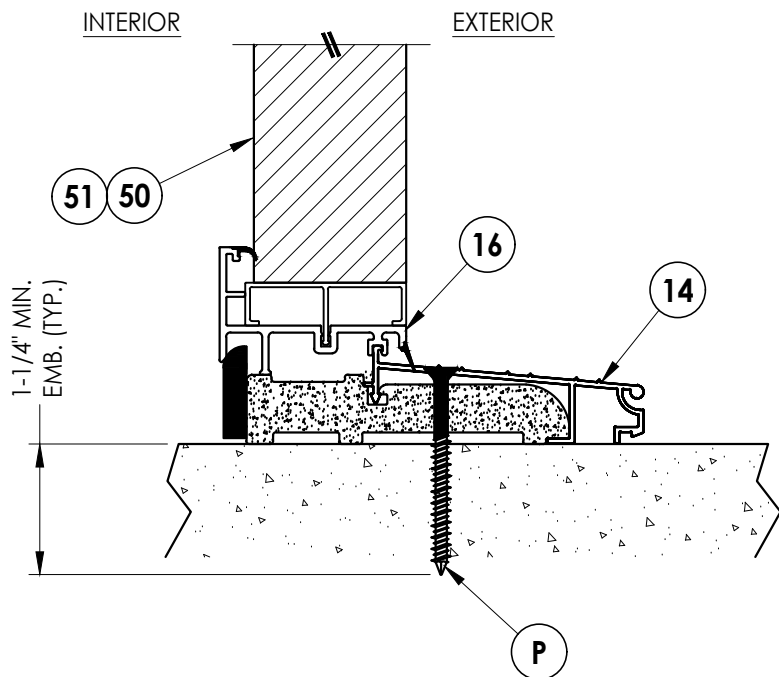
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).

[illegible]

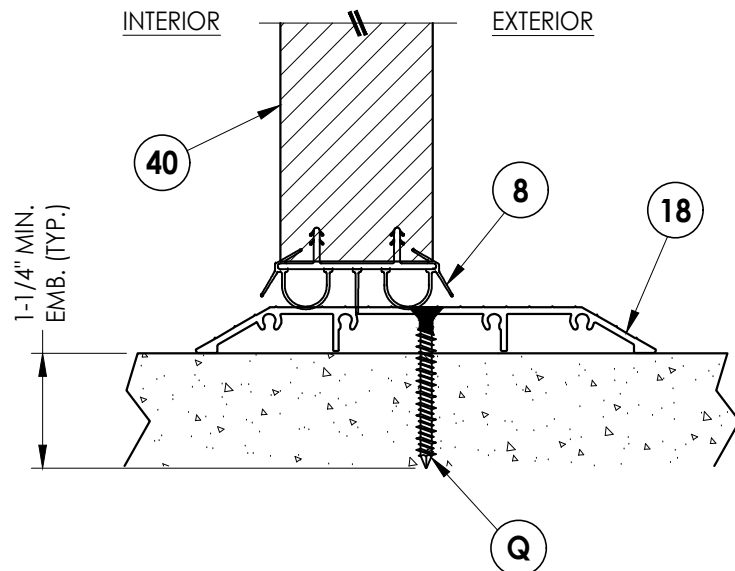
Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg



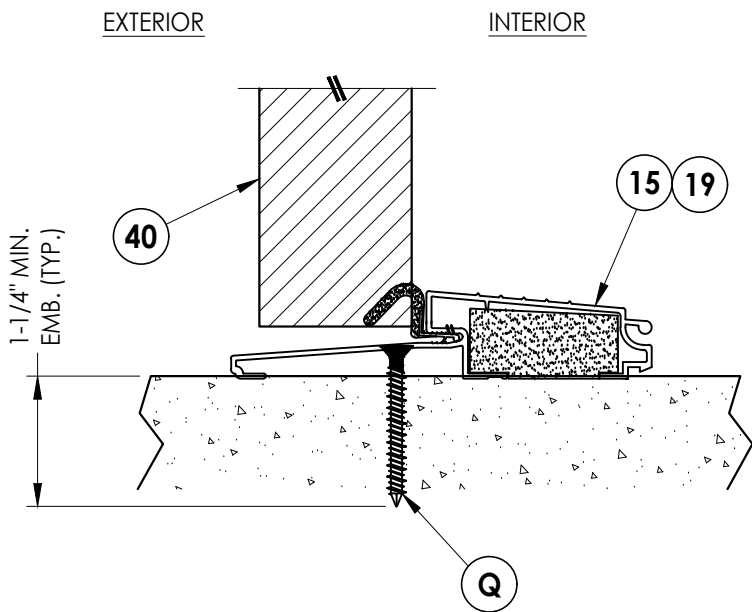
1
11 **VERTICAL CROSS SECTION**
Inswing Sill



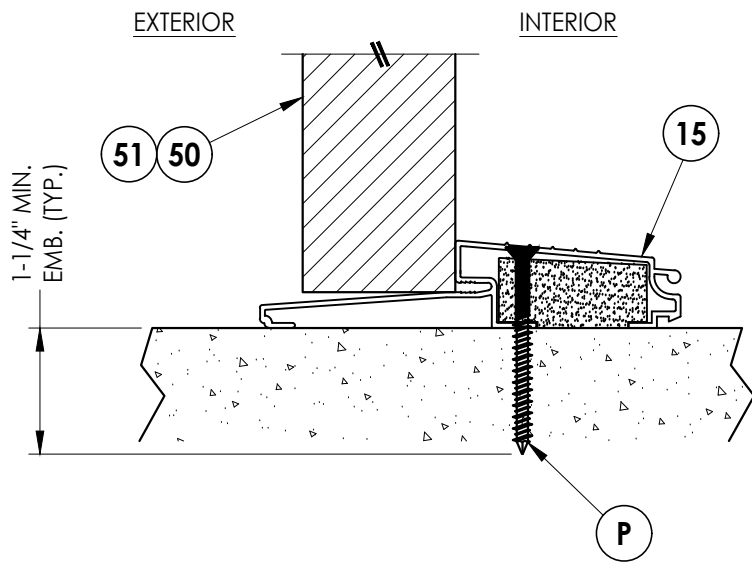
3
11 **VERTICAL CROSS SECTION**
Inswing Sill



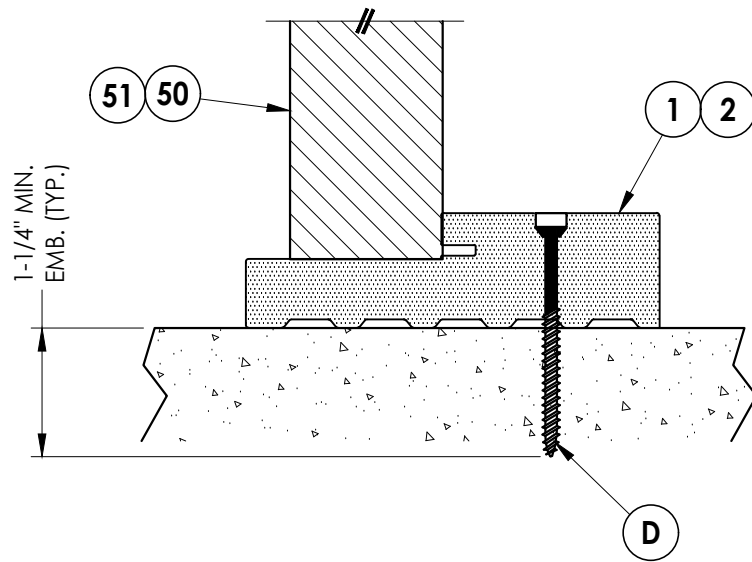
5
11 **VERTICAL CROSS SECTION**
ADA Sill



2
11 **VERTICAL CROSS SECTION**
Outswing Sill



4
11 **VERTICAL CROSS SECTION**
Outswing Sill



6
11 **VERTICAL CROSS SECTION**
Boxed Sidelite Sill

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

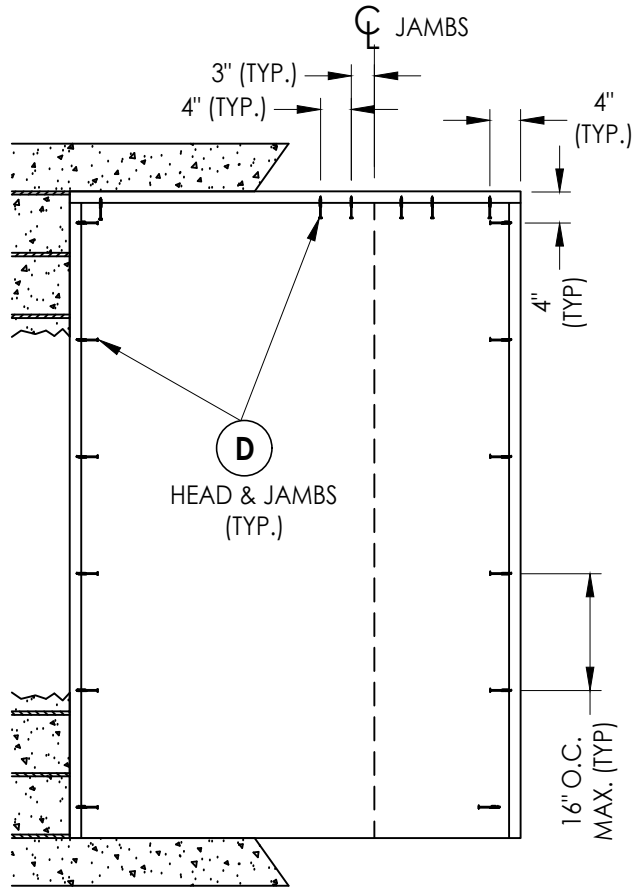
PRODUCT: ODL
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

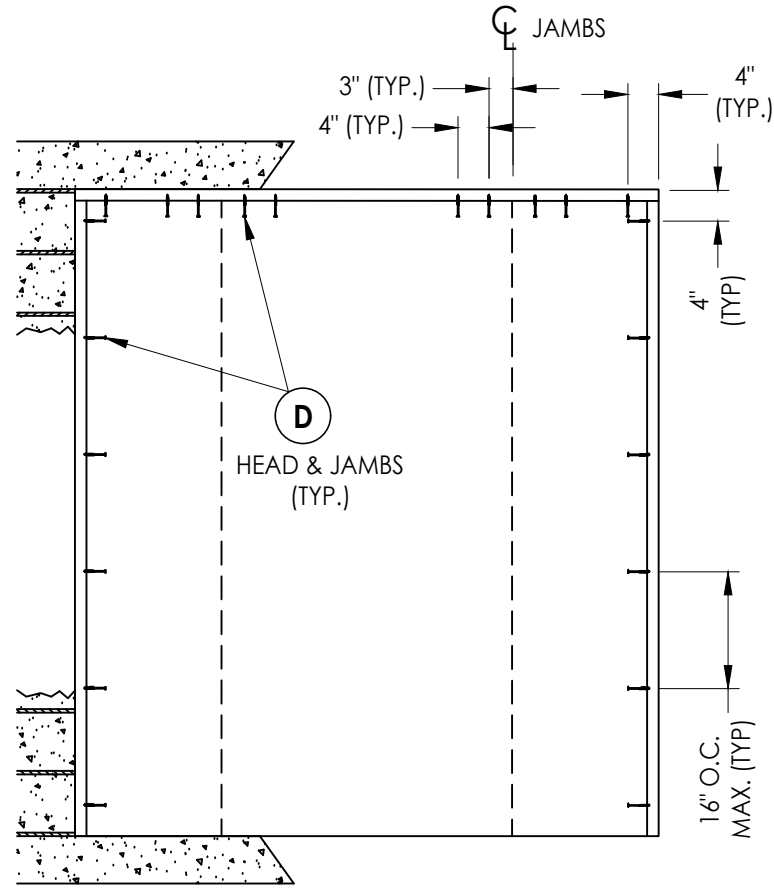
NO.	DATE	ADD	OPT.	GLAZING DETAILS	LFS	BY
1	12/04/24					

REVISIONS

DATE: 2/15/24
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-46116.7
SHEET 11 OF 14



XO/OX



OXO

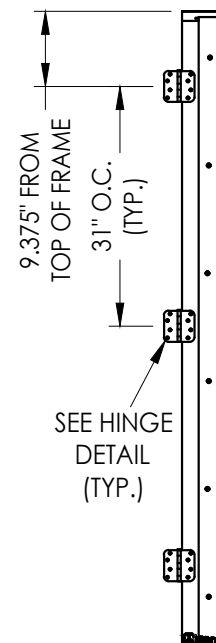
2X BUCK ANCHORING

1	12/04/24	ADD OPT. GLAZING DETAILS	LFS		
NO.	DATE		BY		
REVISIONS					

DATE:	2/15/24
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-46116.7
SHEET	<u>12</u> OF <u>14</u>

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



HINGE DETAIL
INSWING

Diagram illustrating the HINGE DETAIL for an INSWING door. The diagram shows a door with a hinge assembly. Callouts include: 9 (hinge pin), 10 (hinge leaves), M (DIRECT TO MASONRY), G (1X BUCK), L (2X BUCK), and 10 (hinge leaves).

9

10

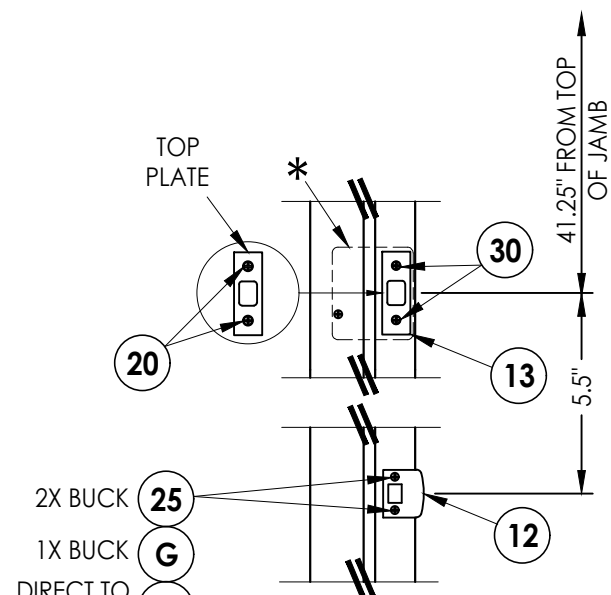
M DIRECT TO MASONRY

G 1X BUCK

L 2X BUCK

10

OUTSWING



KWIKSET LOCKSET

HARDWARE DETAILS

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ODL
FIBERGLASS DOOR

PART OR ASSEMBLY:
**FRAME ANCHORING
& HARDWARE DETAILS**

[illegible]

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: *LFS*

CHK. BY: *RW*

DRAWING NO.:

FL-46116.7

SHEET 13 OF 14

Z:\2023 FBC Drawings\ODL, Inc\FL-46116\FL-46116.7.dwg

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	COMP
2	WOOD JAMB	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 SIDELITE BASE	PVC
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
27	#10 X 2" PFH SMS	STEEL
30	#12 X 2-1/2" PFH WOOD SCREW	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
51	SIDELITE PANEL	-

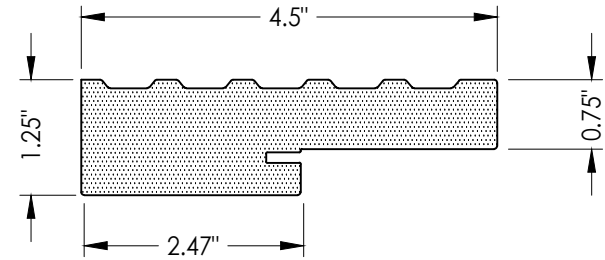
CONCRETE ANCHOR NOTES:

- 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:

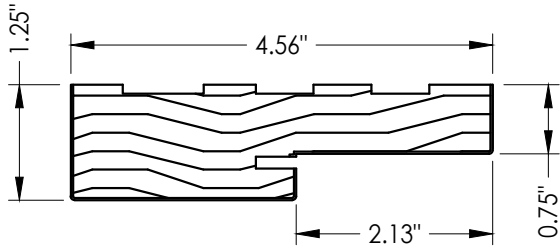
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

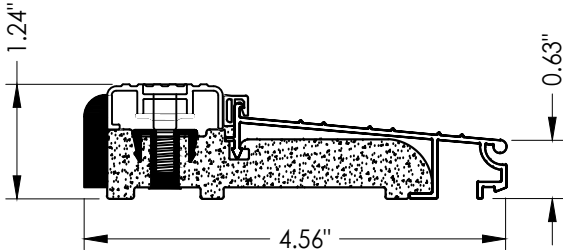
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



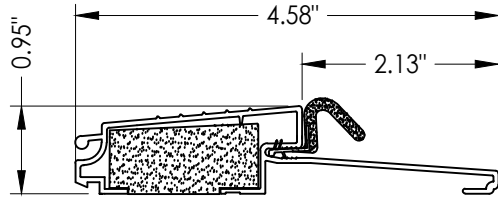
1 COMPOSITE JAMB
STARLINK SURE JAMB



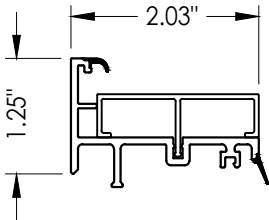
2 WOOD JAMB
FINGER JOINTED PINE



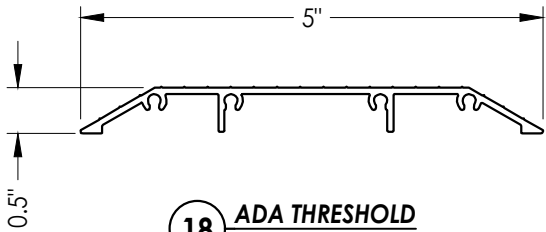
14 INSWING THRESHOLD
AFCO A-276



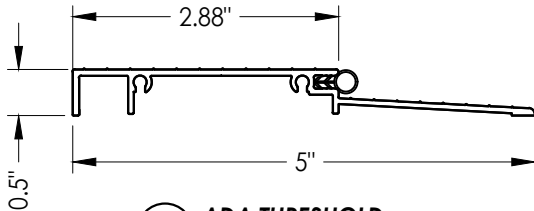
15 OUTSWING THRESHOLD
AFCO A-117



16 INSWING SIDELITE BASE
AFCO



18 ADA THRESHOLD
AFCO A-204



19 ADA THRESHOLD
AFCO A-204T

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	ADD	OPT.	GLAZING	DETAILS	LFS	BY
1	12/04/24						

DATE: 2/15/24

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-46116.7

SHEET 14 OF 14