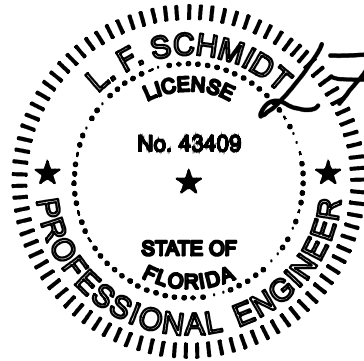




This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

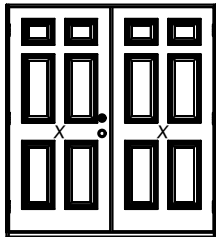
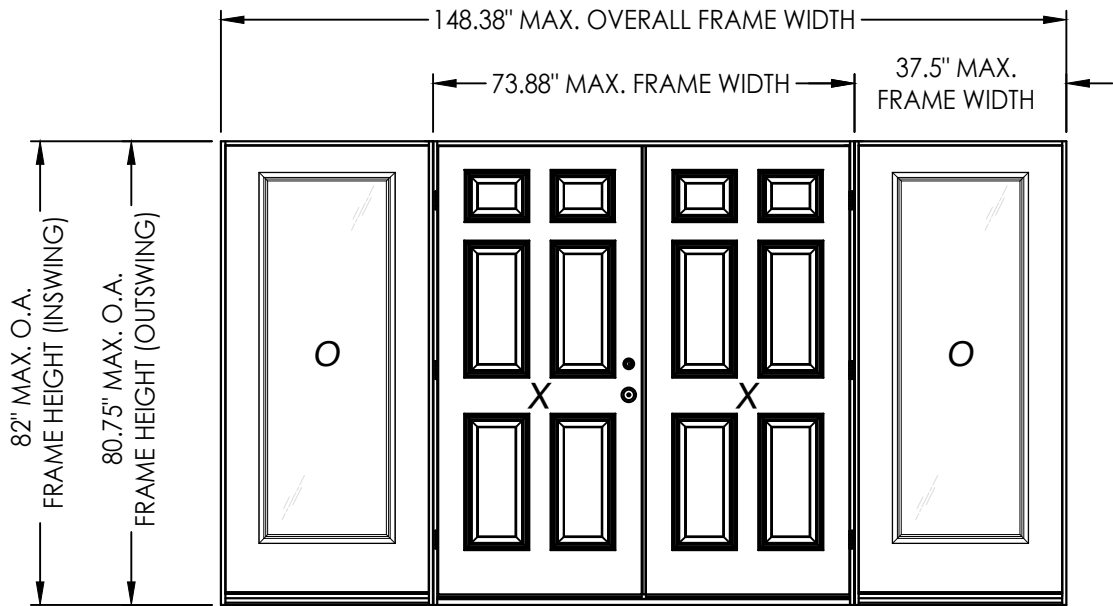
Digitally signed by Lyndon F Schmidt
Date: 2023.09.25 14:32:05 -04'00'

"BUILDER SERIES"
OPAQUE FIBERGLASS DOOR
DOUBLE
w/ or w/out SIDELITE(S)
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.

TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	
1	Typical Elevations, Design Pressures & General Notes	8	Horizontal & Vertical Cross Sections (Direct to Masonry)
2	Door Panel Details	9	Vertical Cross Sections (Thresholds)
3	Sidelite Panel Details	10	Buck Anchoring
4	Elevations	11	Frame Anchoring & Hardware Details
5	Horizontal & Vertical Cross Sections	12	Lite Frame & Glazing Details
6	Horizontal & Vertical Cross Sections (2X Buck)	13	Bill of Materials & Components
7	Horizontal & Vertical Cross Sections (1X Buck)		



XX

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	73.88" x 82.0"	+40.0	-40.0	+50.0	-50.0
OXXO	148.38" x 82.0"	+40.0	-40.0	+45.0	-45.0

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

TKI PRODUCTS
FIBERGLASS DOOR

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

NO. DATE BY

REVISIONS

DATE: 9/25/23

SCALE: N.T.S.

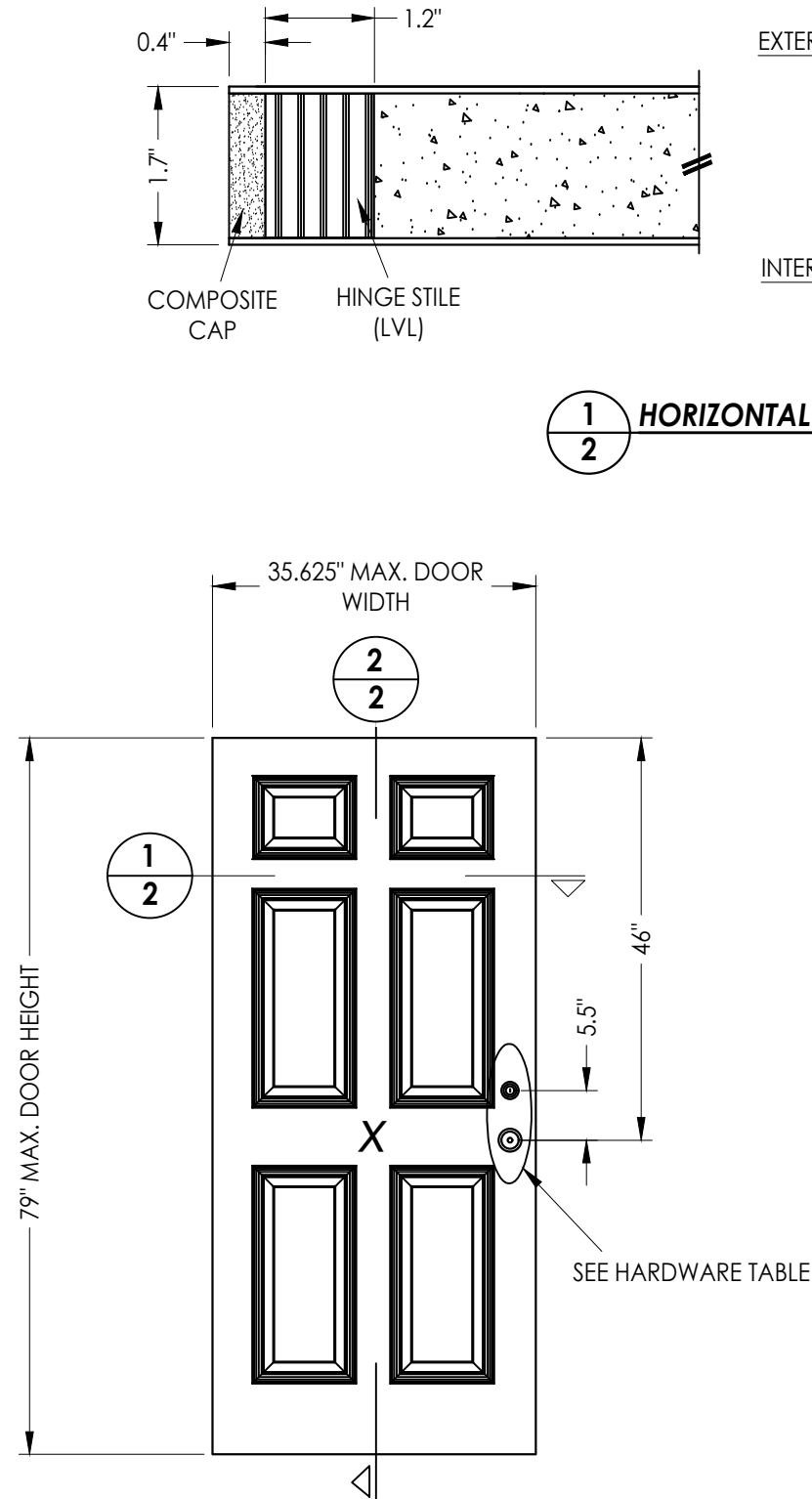
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CHK. BY: LFS

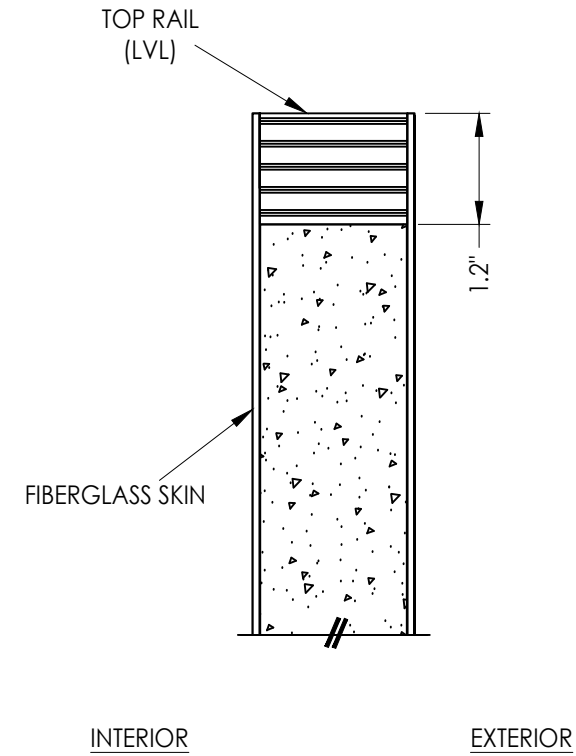
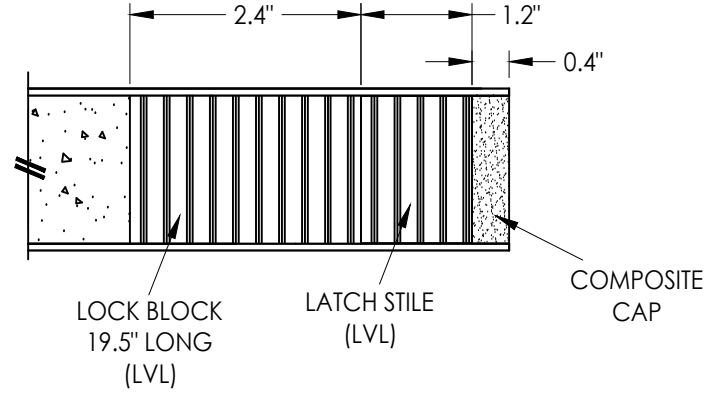
DRAWING NO.: FL-42433.3

SHEET 1 OF 13

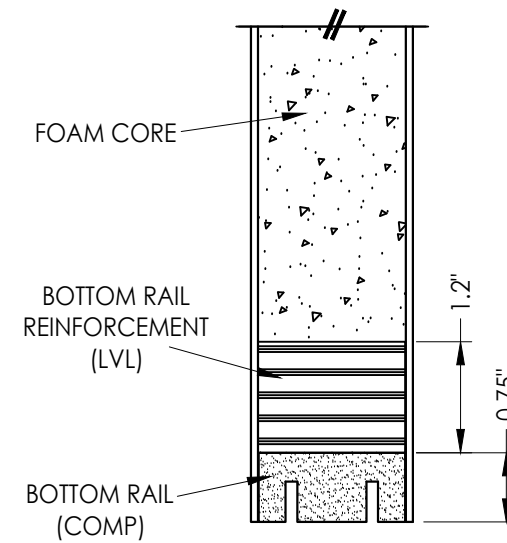
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



1 HORIZONTAL CROSS SECTION



2 VERTICAL CROSS SECTION
2



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

FIBERGLASS SKIN: 0.075" MIN. THK.
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.)

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

PRODUCT: TKI PRODUCTS
FIBERGLASS DOOR

PART OR ASSEMBLY:

[illegible]

DATE: 9/25/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: *LFS*

DRAWING NO.:

FL-42433.3

SHEET 2 OF 1.3

The image contains two technical drawings of a composite door assembly.

The left drawing is a cross-section of the door assembly. It shows a central core with vertical reinforcement strips. The top layer is labeled "COMPOSITE CAP" and has a thickness of 0.4". The total height of the assembly is 1.7". The distance from the center of the core to the edge of the cap is 1.2". The core is labeled "HINGE STILE (LVL)".

The right drawing is a cross-section of the door assembly showing the hinge mechanism. It shows the "HINGE STILE (LVL)" and "STILE REINFORCEMENT (LVL)". The distance from the center of the core to the edge of the cap is 0.78". The assembly is labeled "EXTERIOR" on the top and "INTERIOR" on the bottom. The hinge mechanism is shown with four bolts labeled G1, G2, G3, and G4.

Technical cross-section diagram of a composite floor system. The diagram shows multiple layers and components:

- TOP RAIL (LVL)**: Laminated Veneer Lumber at the top.
- FIBERGLASS SKIN**: A layer below the top rail.
- RAIL REINFORCEMENT (LVL)**: Laminated Veneer Lumber reinforcement.
- INTERIOR** and **EXTERIOR**: Labels indicating the orientation of the assembly.
- G1 G2 G3 G4**: Fasteners or anchors connecting the layers.
- RAIL REINFORCEMENT (LVL)**: Another layer of Laminated Veneer Lumber reinforcement.
- FOAM CORE**: A core of foam insulation.
- BOTTOM RAIL REINFORCEMENT (LVL)**: Laminated Veneer Lumber reinforcement at the bottom.
- BOTTOM RAIL (COMP)**: A composite bottom rail.
- 1.2"**: A dimension indicating the thickness of the top section.

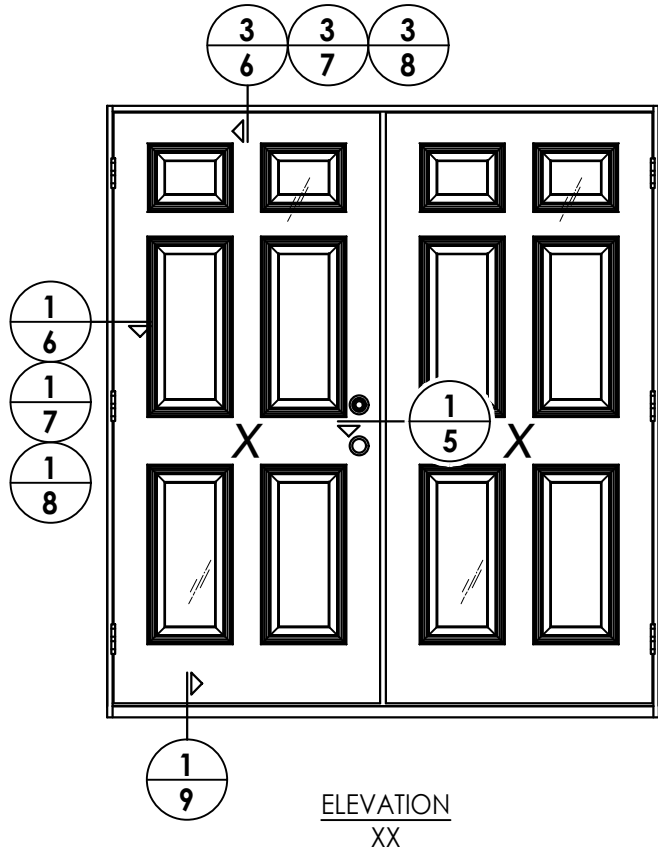
50 FIBERGLASS SIDELITE PANEL

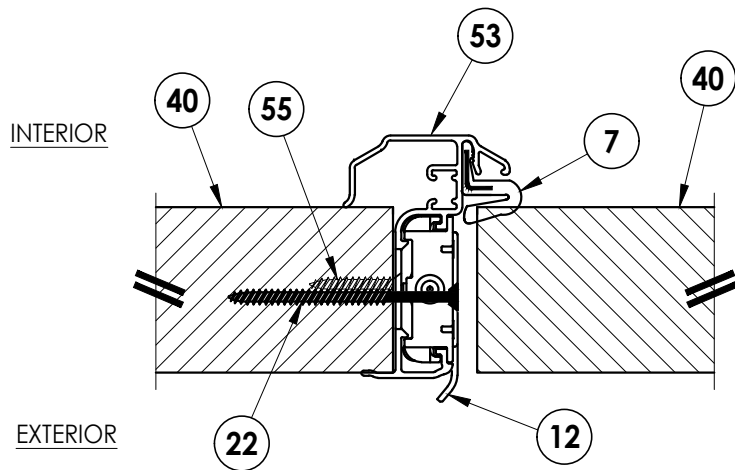
BUILDER SERIES

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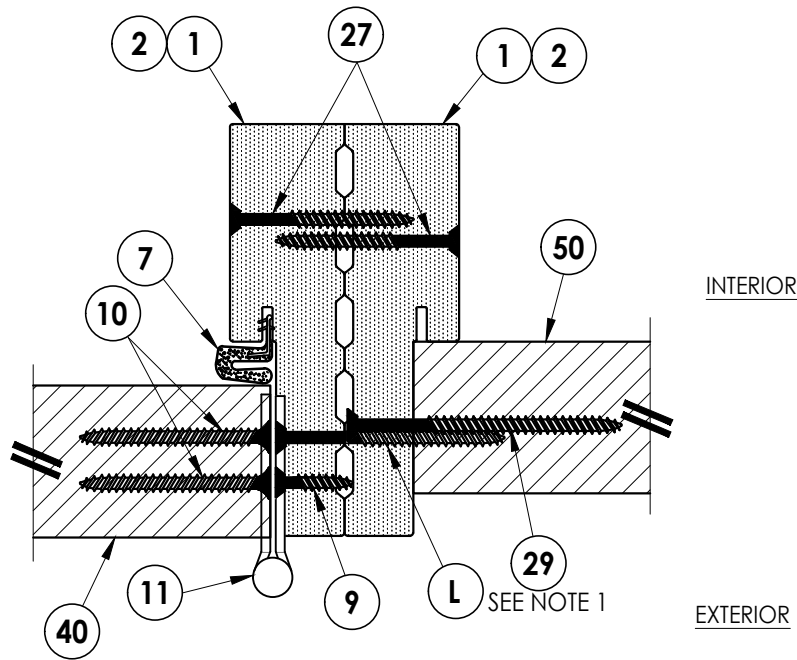
Documents Prepared By:
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P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

[illegible]



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



2 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)

Notes:
1. Sidelite assembly screws located 10" from each end and 4 more screws equally spaced between (6 screws total per side jamb).

PRODUCT:				TKI PRODUCTS FIBERGLASS DOOR			
PART OR ASSEMBLY:				HORIZONTAL CROSS SECTIONS			
NO.				DATE			
BY				REVISIONS			
DATE:				9/25/23			
SCALE:				N.T.S.			
DWG. BY:				RW			
CHK. BY:				LFS			
DRAWING NO.:				FL-42433.3			
SHEET				5 OF 13			

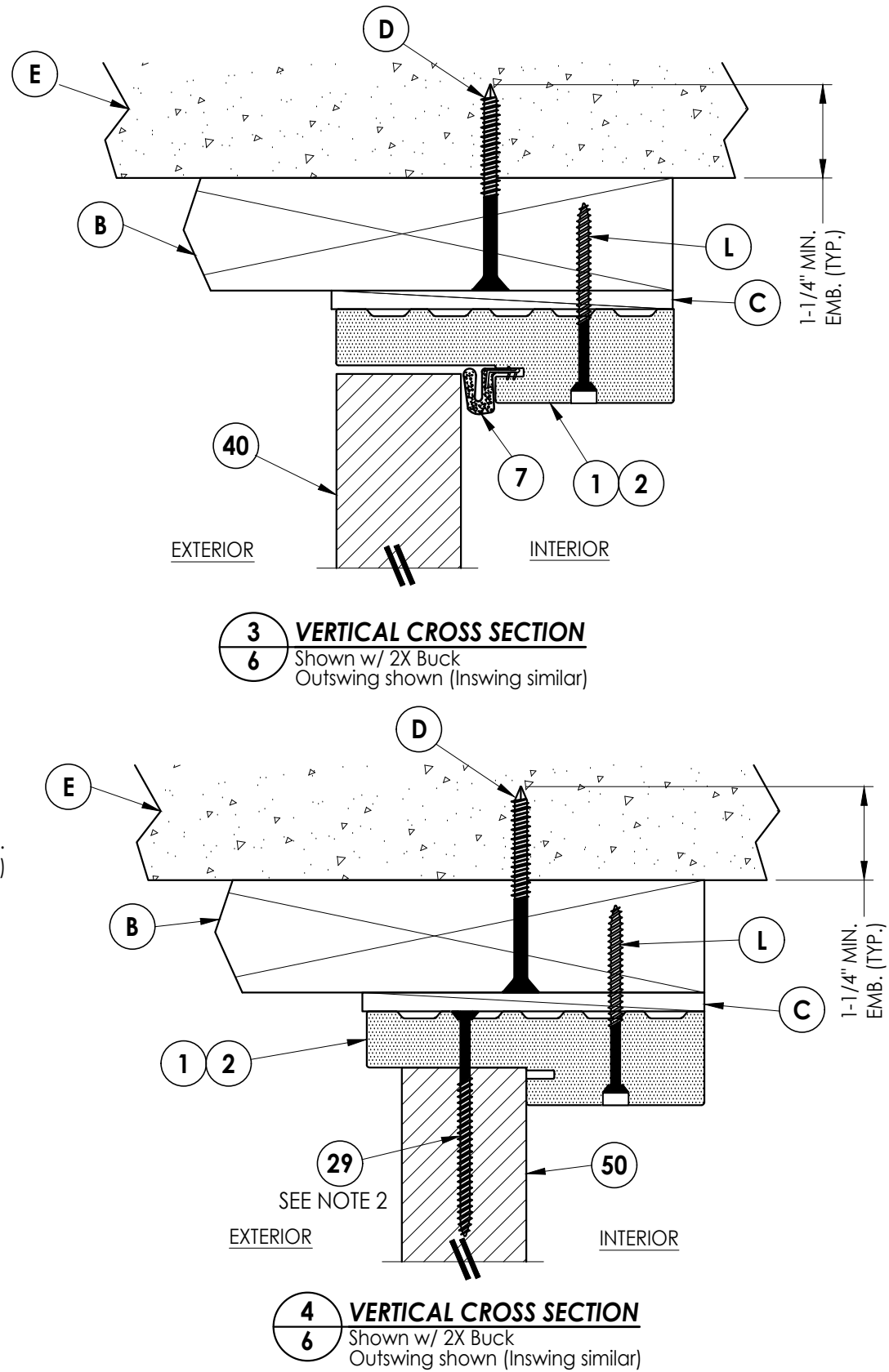
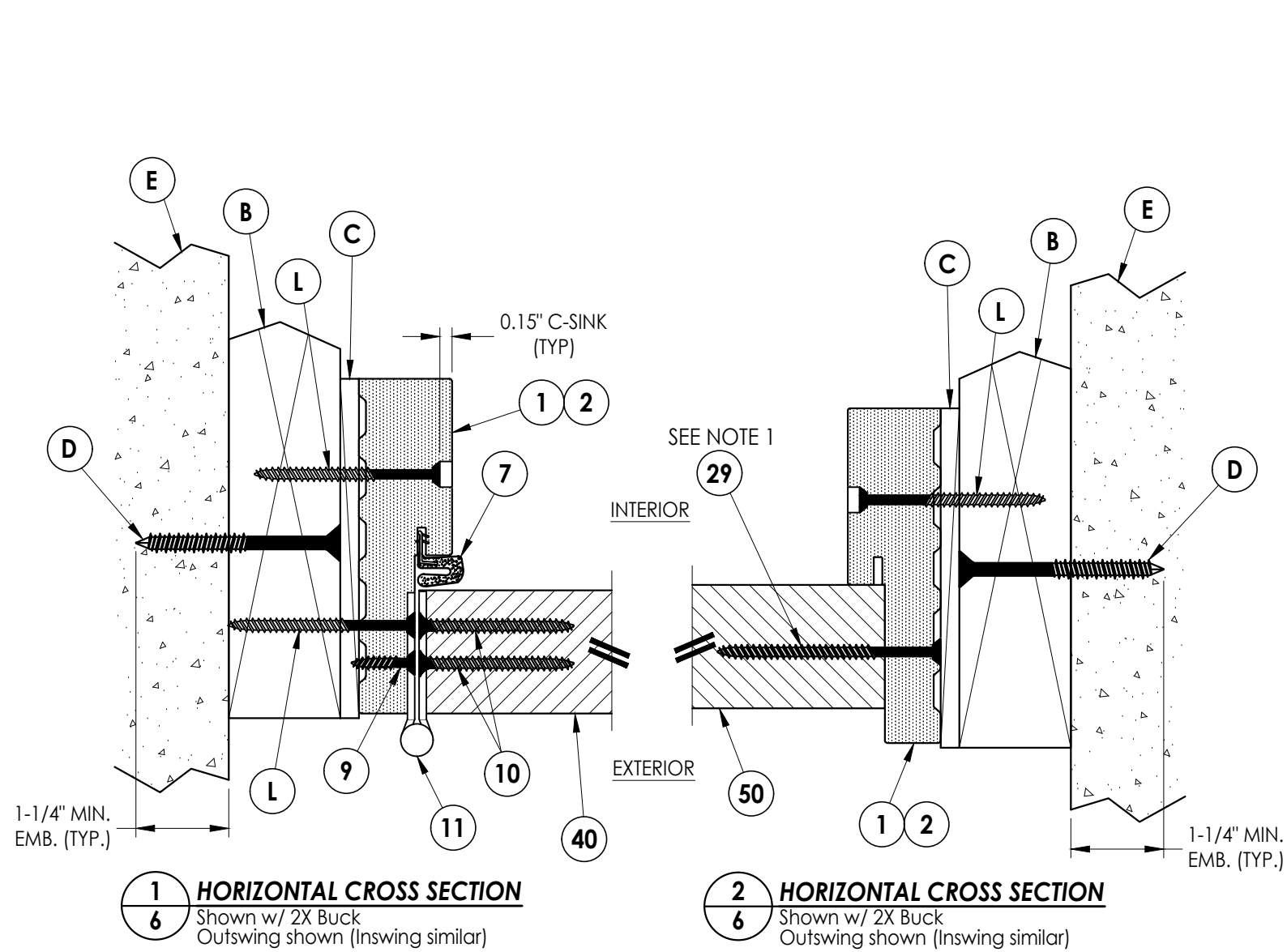
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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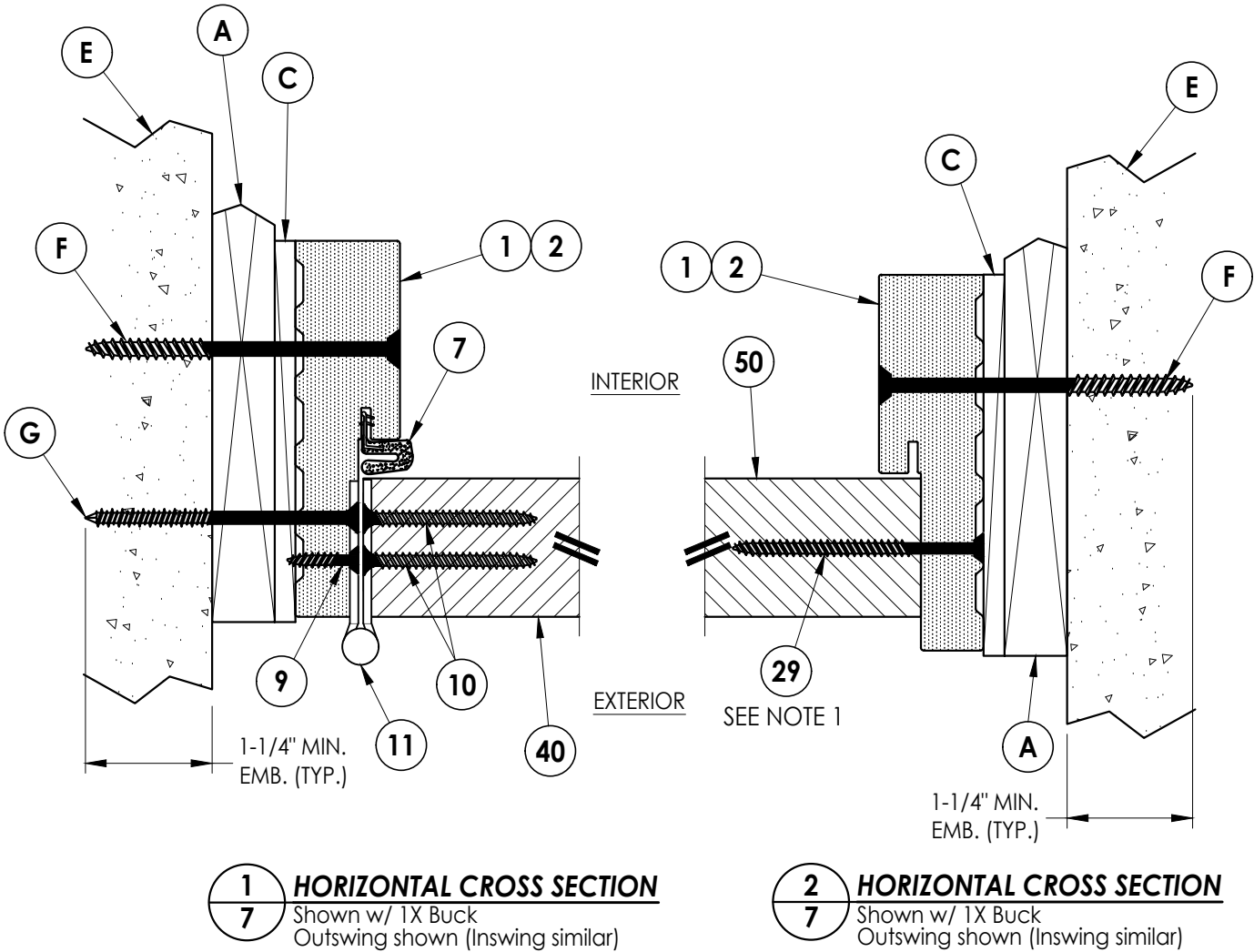
Notes:

1. Sidelite assembly screws located 10" 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).

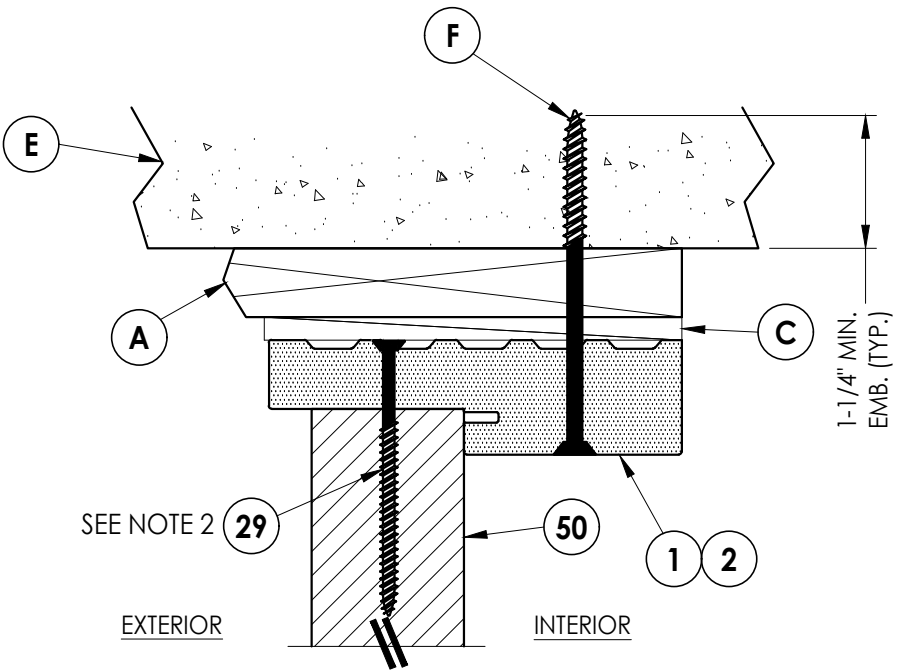
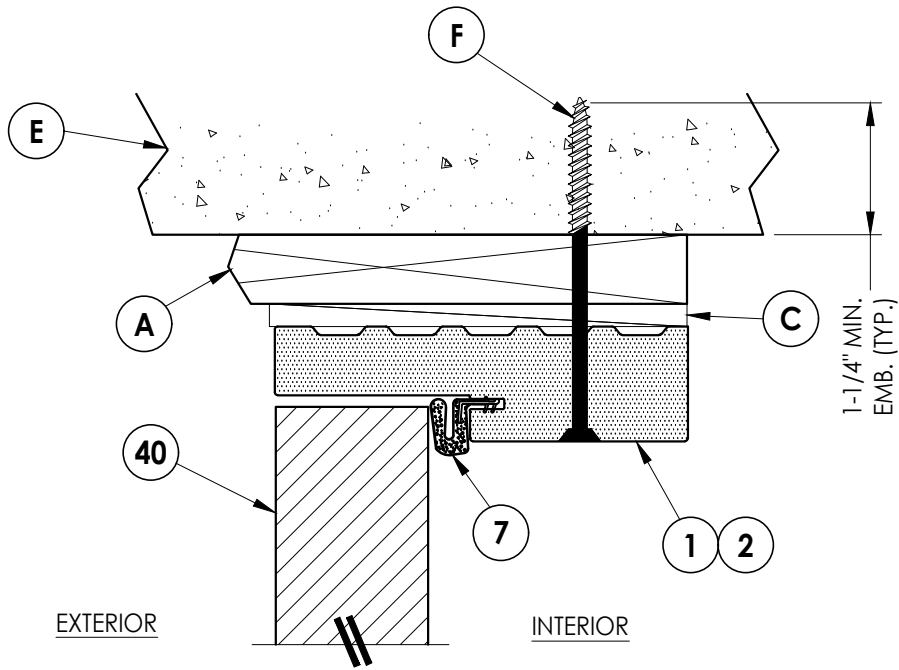


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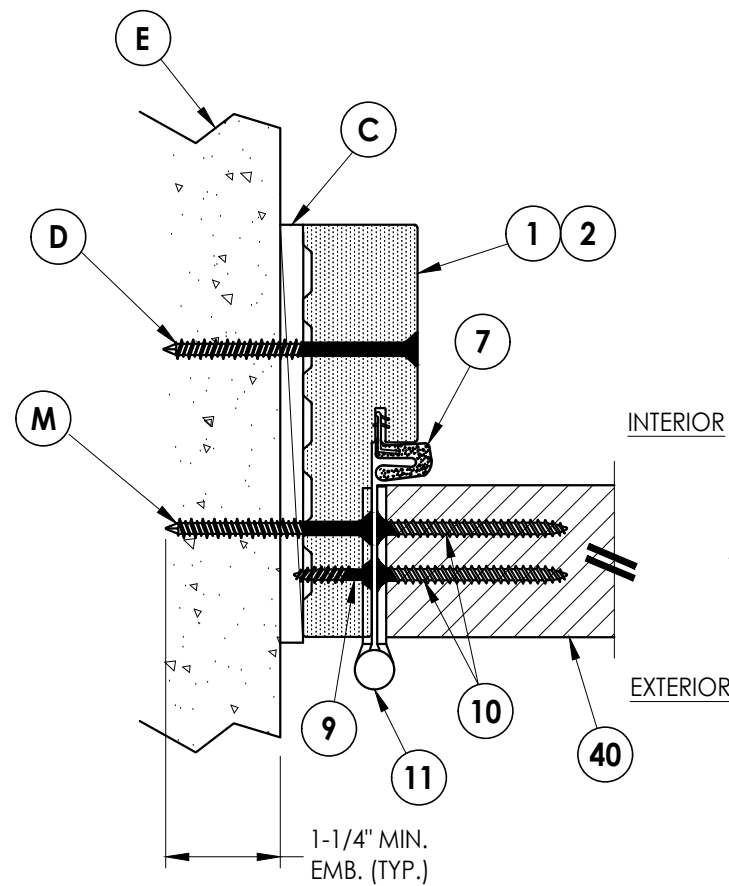
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- Notes:
1. Sidelite assembly screws located 10" from each end and 4 more screws equally spaced between (6 screws total per side jamb).
 2. Sidelite assembly screws located 10" from each end (2 screws total along head & sill).

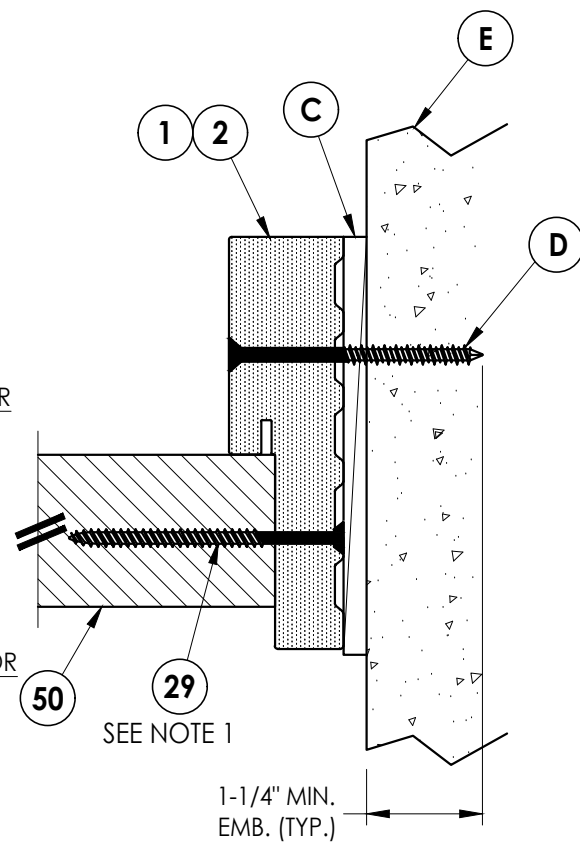


DATE: 9/25/23												PRODUCT:		TKI PRODUCTS FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
																		</			



1 8 **HORIZONTAL CROSS SECTION**

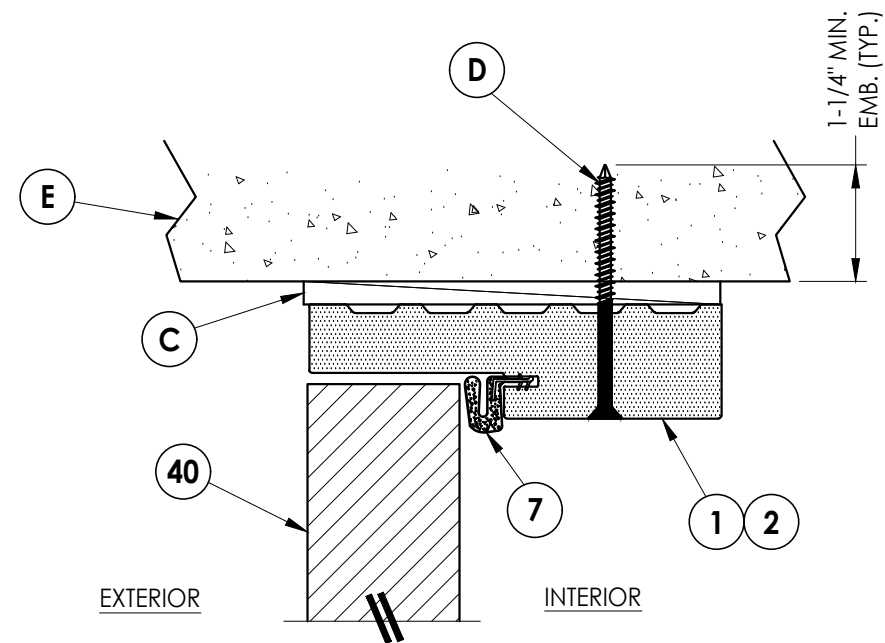
Shown Direct to Masonry
Outswing shown (Inswing similar)



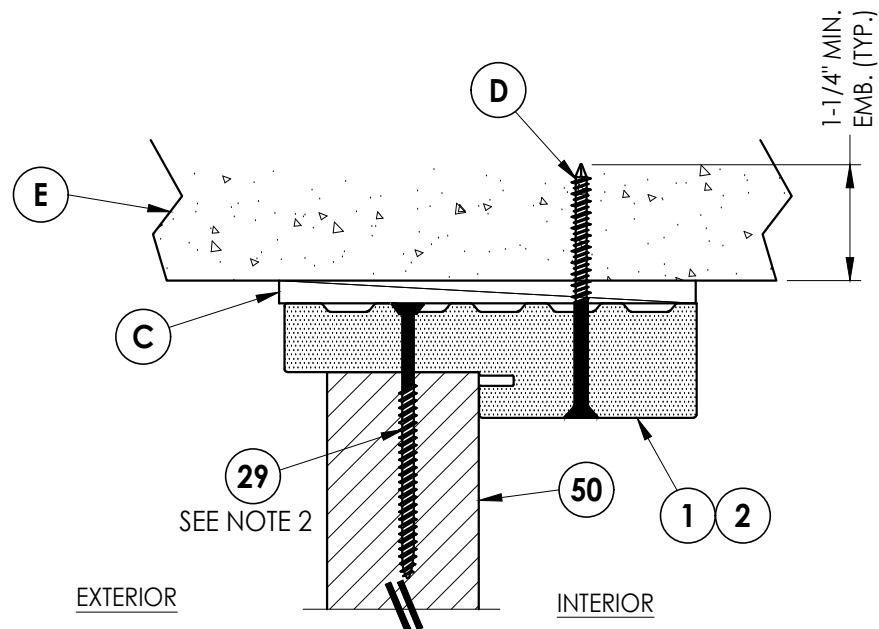
2 **HORIZONTAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing shown (Inswing similar)

Notes:

1. Sidelite assembly screws located 10" 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).



3 **VERTICAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing shown (Inswing similar)



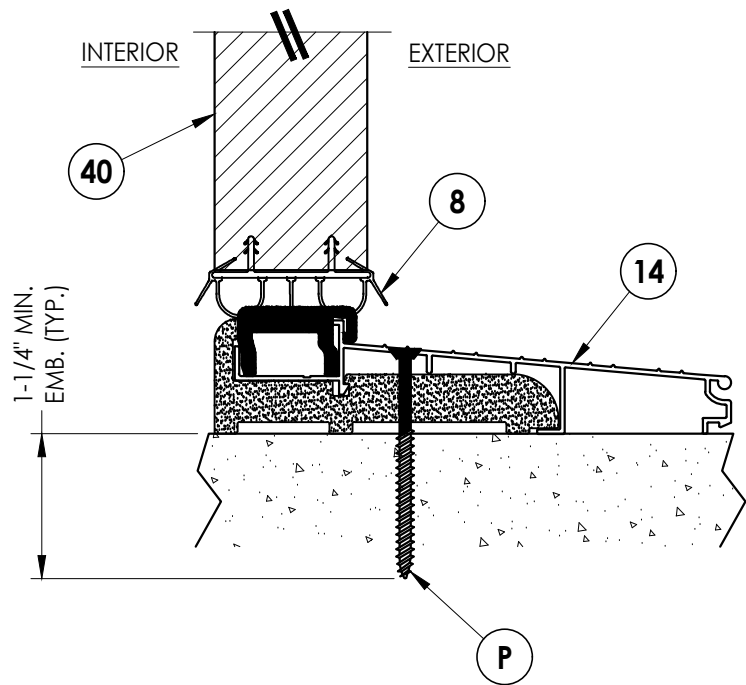
4 **VERTICAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing shown (Inswing similar)

DATE: 9/25/23		NO.		DATE	BY	REVISIONS
SCALE: N.T.S.						
DWG. BY: RW						
CHK. BY: LFS						
DRAWING NO.: FL-42433.3						
SHEET 8 OF 13						

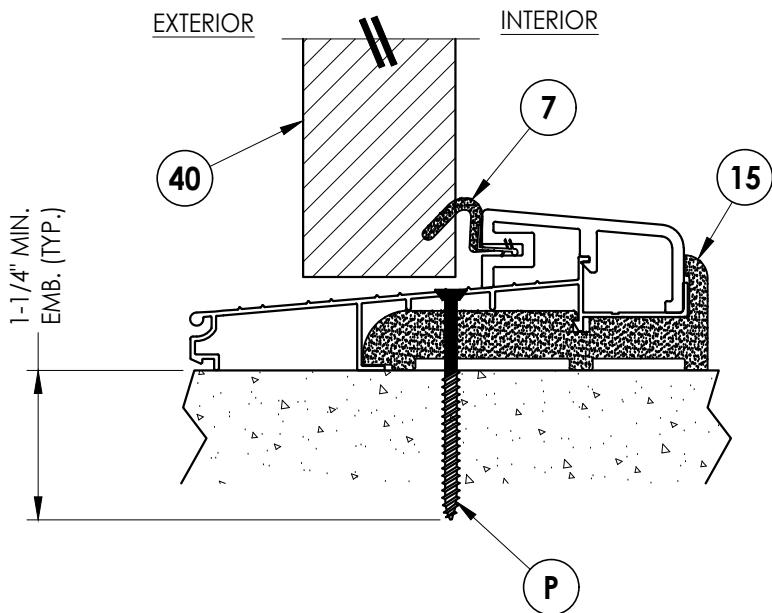
PRODUCT:	TK1 PRODUCTS FIBERGLASS DOOR
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)

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	

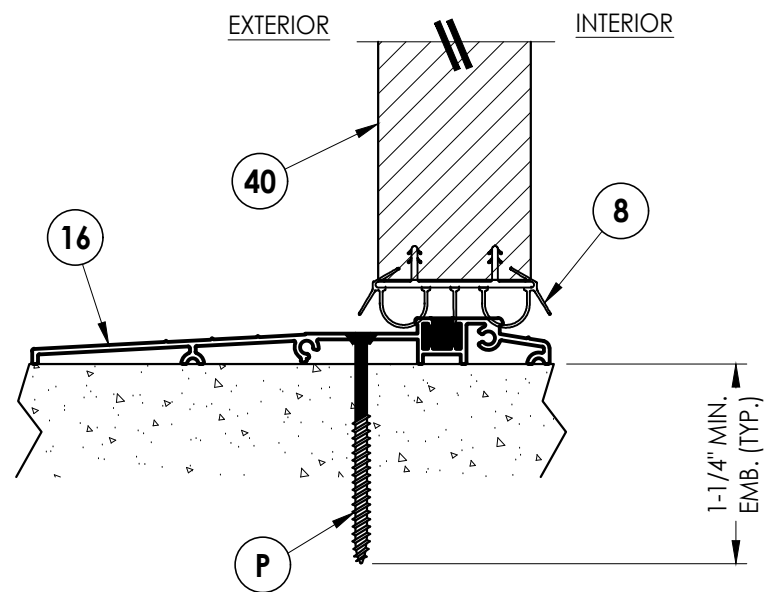
Note:
1. Sidelite assembly screws located 10" from each end (2 screws total along head & sill).



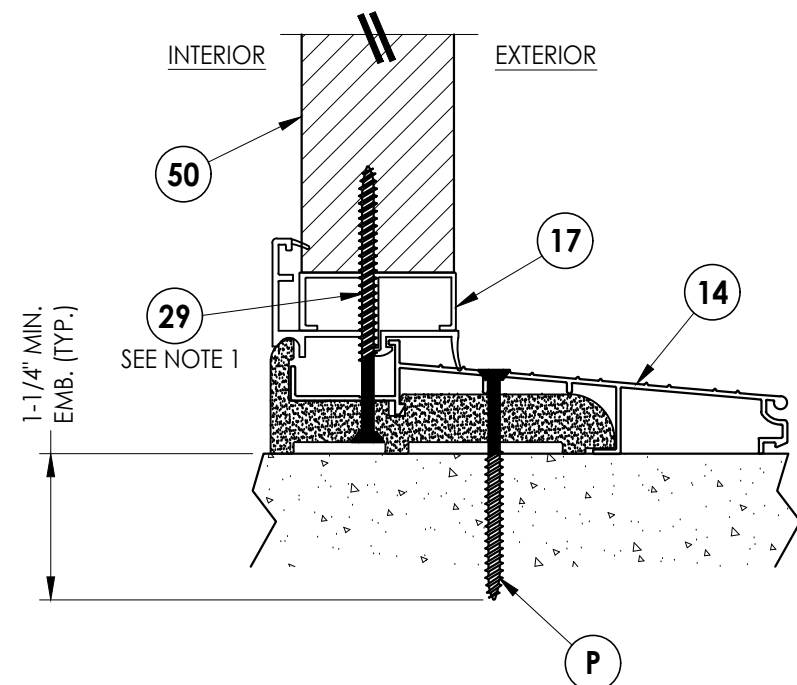
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9 **VERTICAL CROSS SECTION**
Inswing Threshold



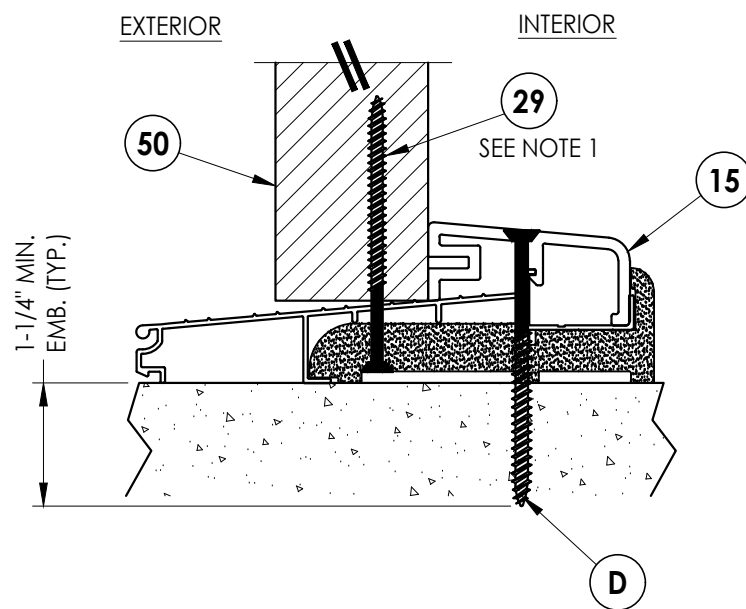
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9 **VERTICAL CROSS SECTION**
Outswing Threshold



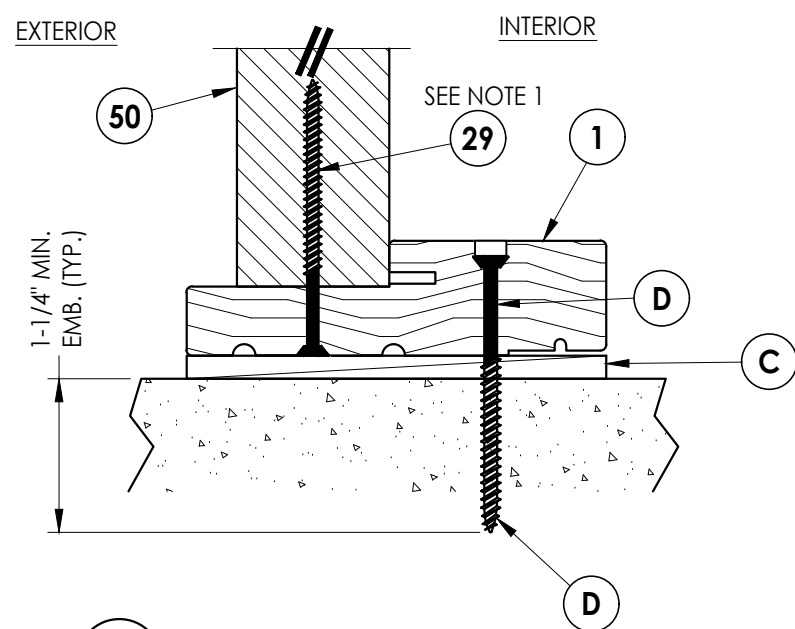
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9 **VERTICAL CROSS SECTION**
ADA Threshold



4
9 **VERTICAL CROSS SECTION**
Inswing Threshold



5
9 **VERTICAL CROSS SECTION**
Outswing Threshold



6
9 **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:
TKI PRODUCTS
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

REVISIONS	
NO.	DATE

DATE: 9/25/23

SCALE: N.T.S.

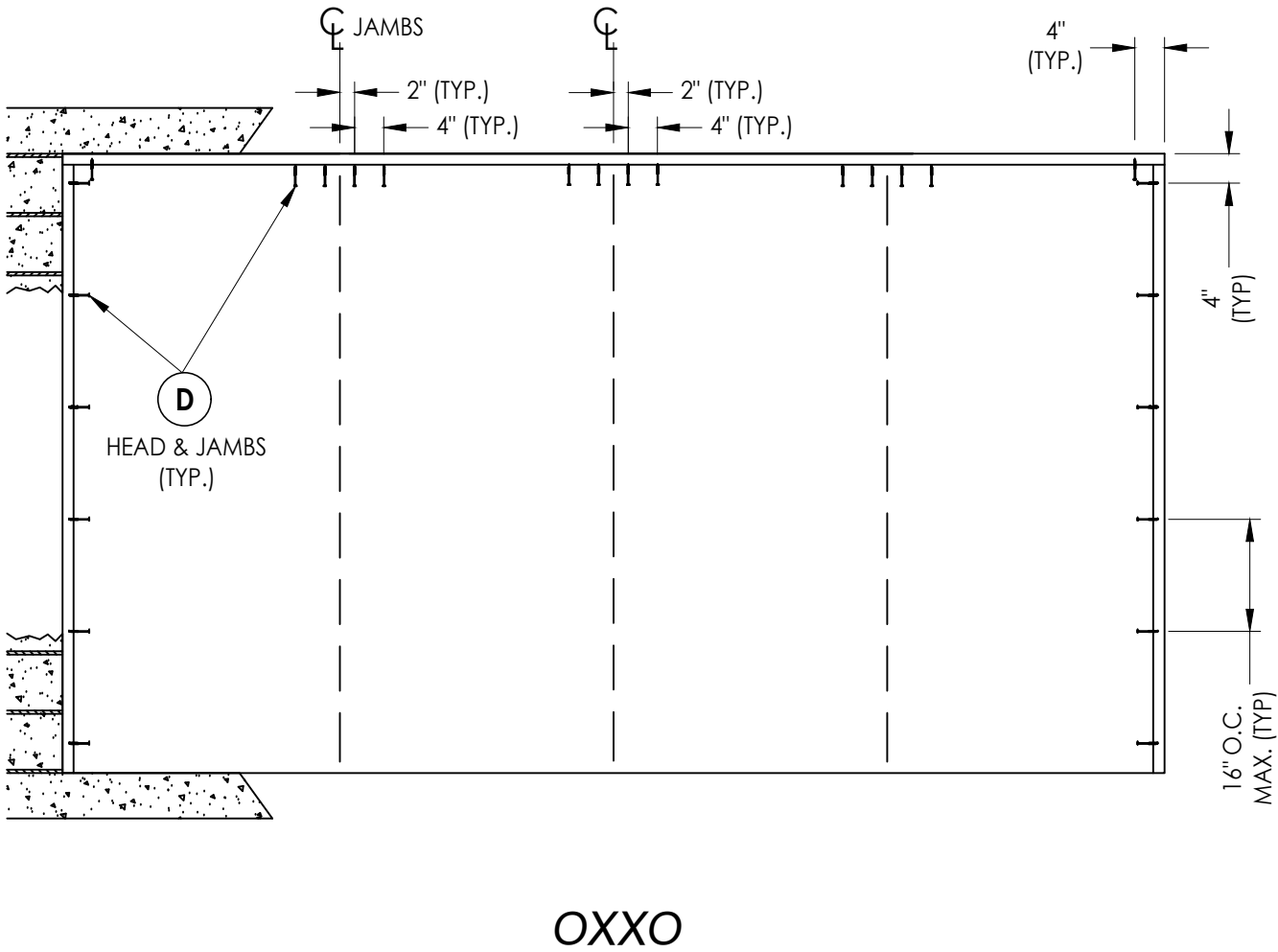
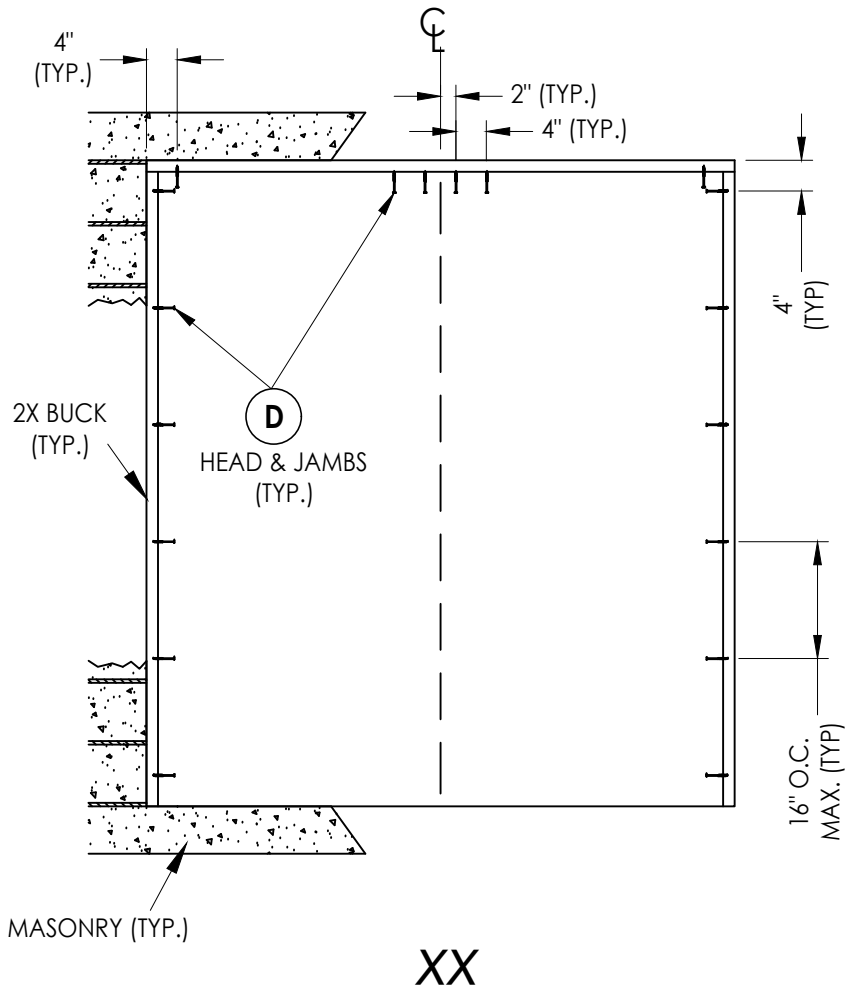
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-42433.3

SHEET 9 OF 13

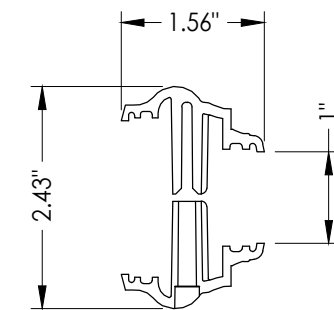


2X BUCK ANCHORING

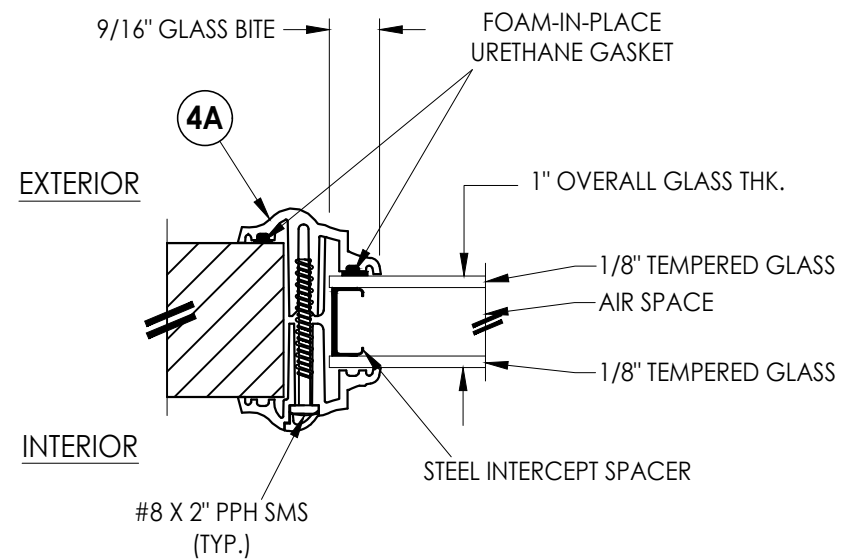
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SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-42433.3			
SHEET 10 OF 13			
PRODUCT:	TKI PRODUCTS FIBERGLASS DOOR	NO.	DATE
PART OR ASSEMBLY:	BUCK ANCHORING		BY
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409			
<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			



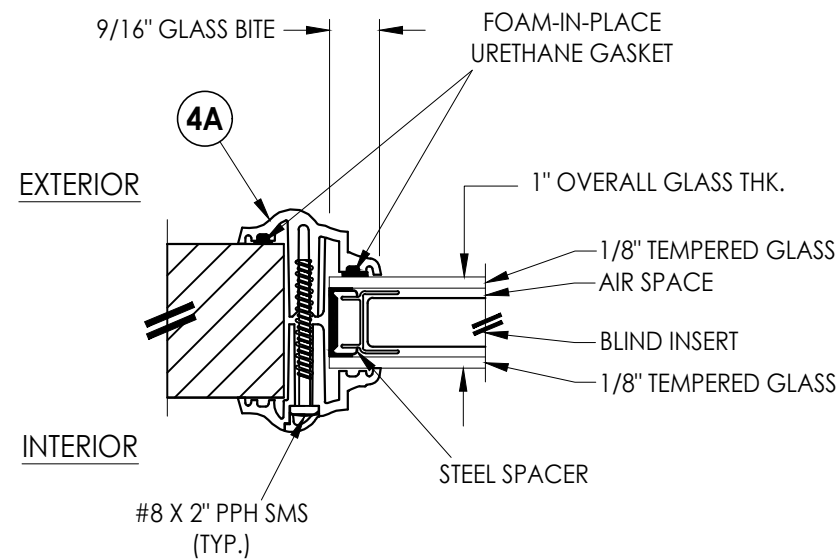
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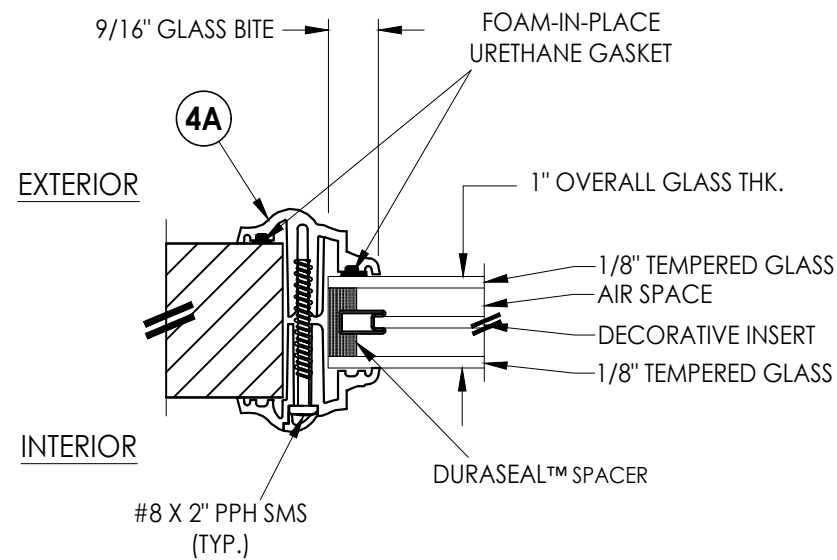
4A **ODL EVOLVE LITE FRAME**
HP POLYPROPYLENE



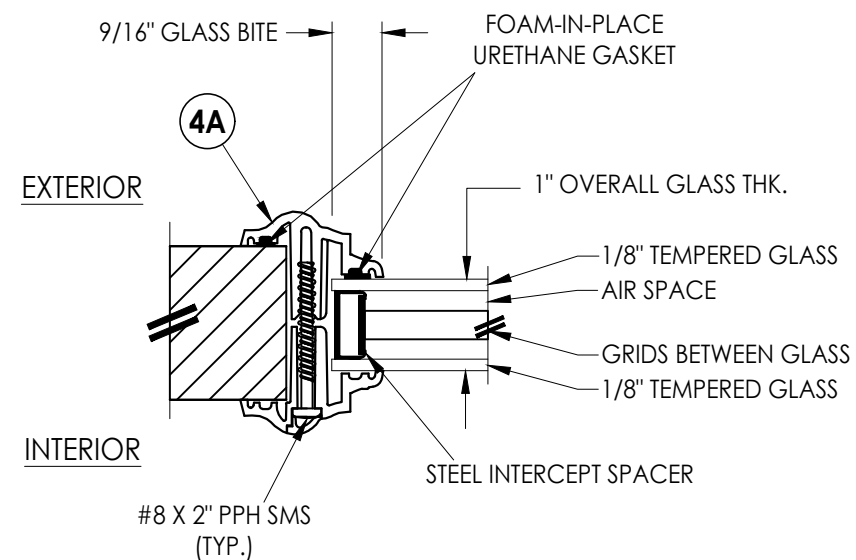
G1 GLAZING DETAIL



G2 GLAZING DETAIL



G3 GLAZING DETAIL



G4 GLAZING DETAIL

[illegible]

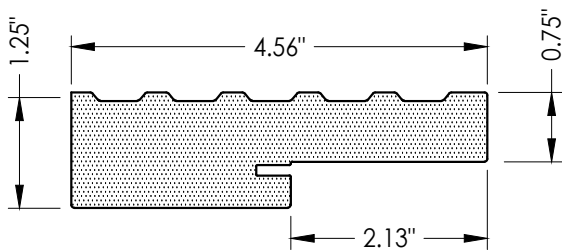
Documents Prepared By:
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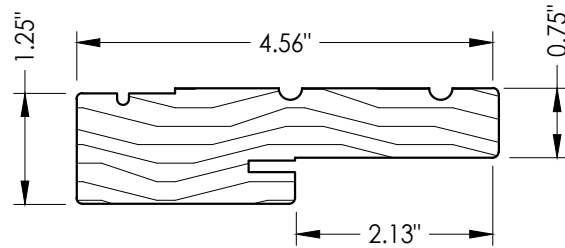
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FBPE Registry No. 9813

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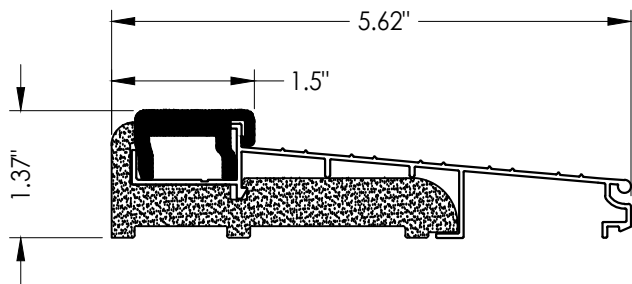
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	#10 X 3" PFH WOOD 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
1	COMPOSITE JAMB	COMP
2	FINGER JOINT PINE JAMB	WOOD
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	#9 X 3/4" PFH WOOD SCREW	STEEL
10	#7 X 2" PFH DRYWALL 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	OUTSWING ADA THRESHOLD	ALUM
17	OUTSWING SIDELITE ADAPTER	PVC
22	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	#10 X 2" PFH SMS	STEEL
29	#10 X 3" FH COMPOSITE DECK SCREW	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
53	ALUMINUM ASTRAGAL	ALUM
54	ASTRAGAL STRIKE PLATE	STEEL
55	#8 X 1" PFH WS	STEEL



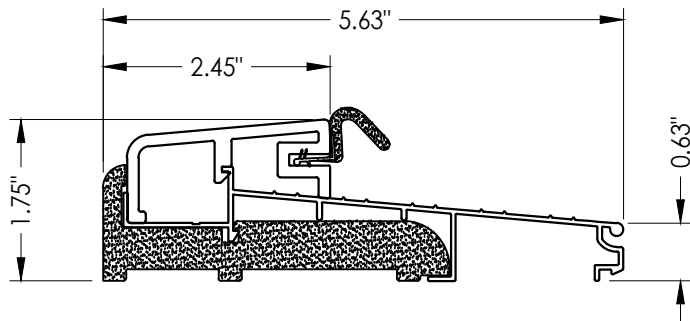
1 **COMPOSITE JAMB**
SURE JAMB (HM SUREROCK)



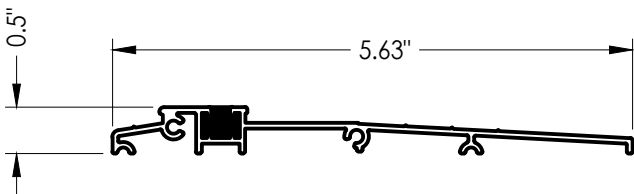
2 **FINGER JOINT PINE JAMB**



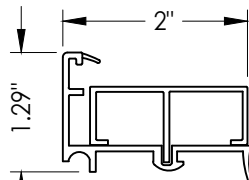
14 **INSWING THRESHOLD**
AFCO IXO



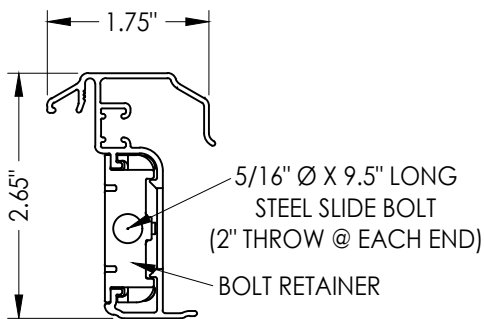
15 **OUTSWING THRESHOLD**
AFCO IXO



16 **OUTSWING ADA THRESHOLD**
COLUMBIA 486



17 **INSWING SIDELITE ADAPTER**



53 **ENDURA ASTRAGAL**
Ultimate Hurricane

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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PRODUCT: TKI PRODUCTS
FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS
& COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 9/25/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-42433.3

SHEET 13 OF 13