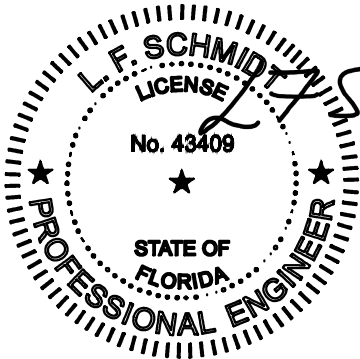




WHERE IT'S POSSIBLE

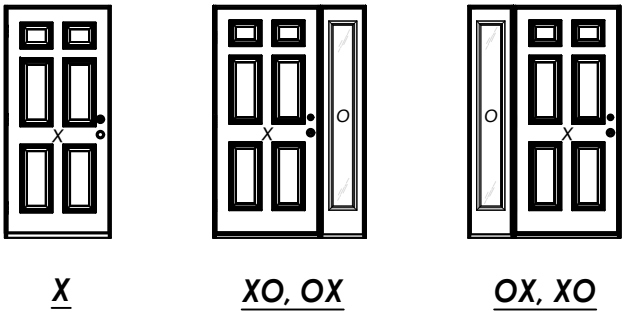
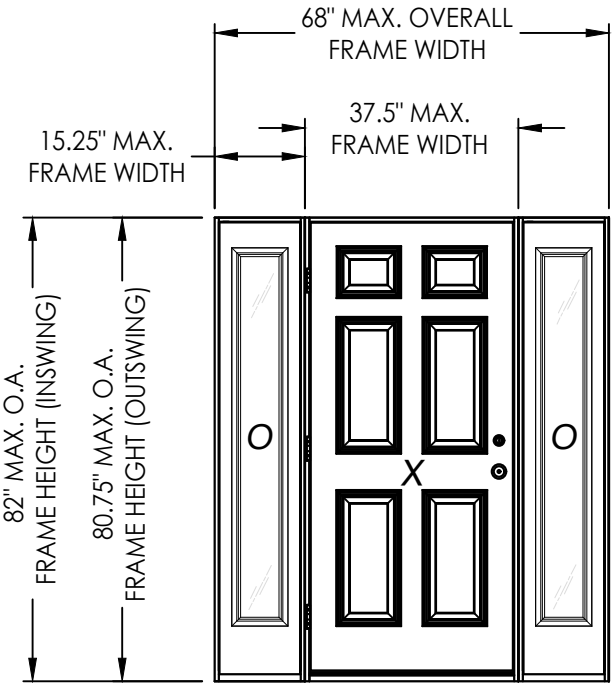


Digitally signed by Lyndon F Schmidt
Date: 2023.09.25 14:32:46 -04'00'

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

"BUILDER SERIES"
OPAQUE FIBERGLASS DOOR
SINGLE
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)		

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.5" x 82.0"	+65.0	-65.0	+65.0	-65.0
XO, OX	52.75" x 82.0"	+45.0	-50.0	+45.0	-45.0
OXO	68.0" x 82.0"	+45.0	-50.0	+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

DATE: 9/25/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-42433.1
SHEET 1 OF 13

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

REVISIONS

NO. DATE BY



TOP RAIL (LVL)

FIBERGLASS SKIN

1.2"

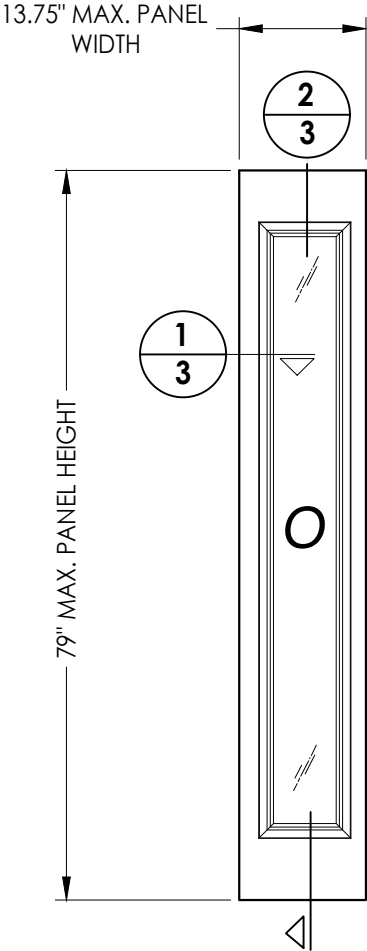
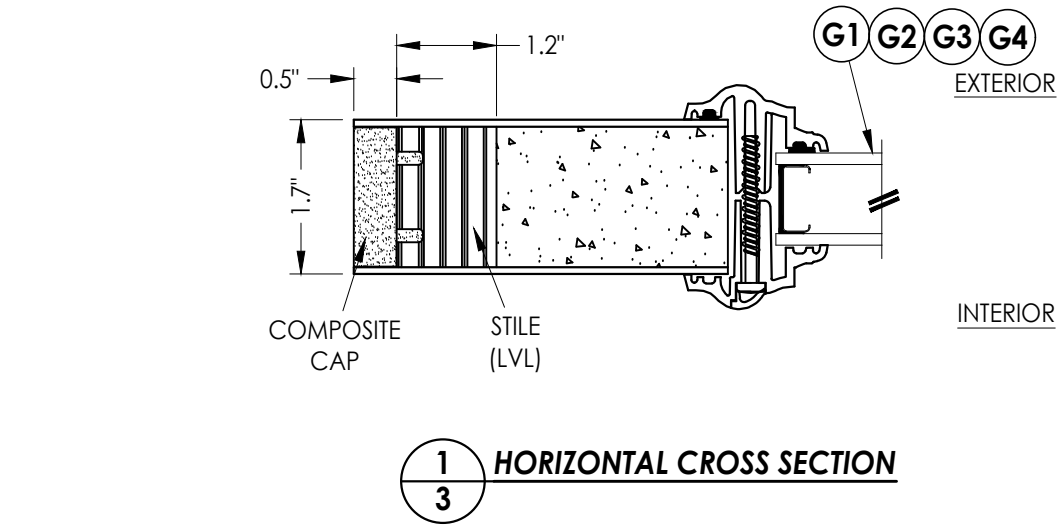
INTERIOR

EXTERIOR



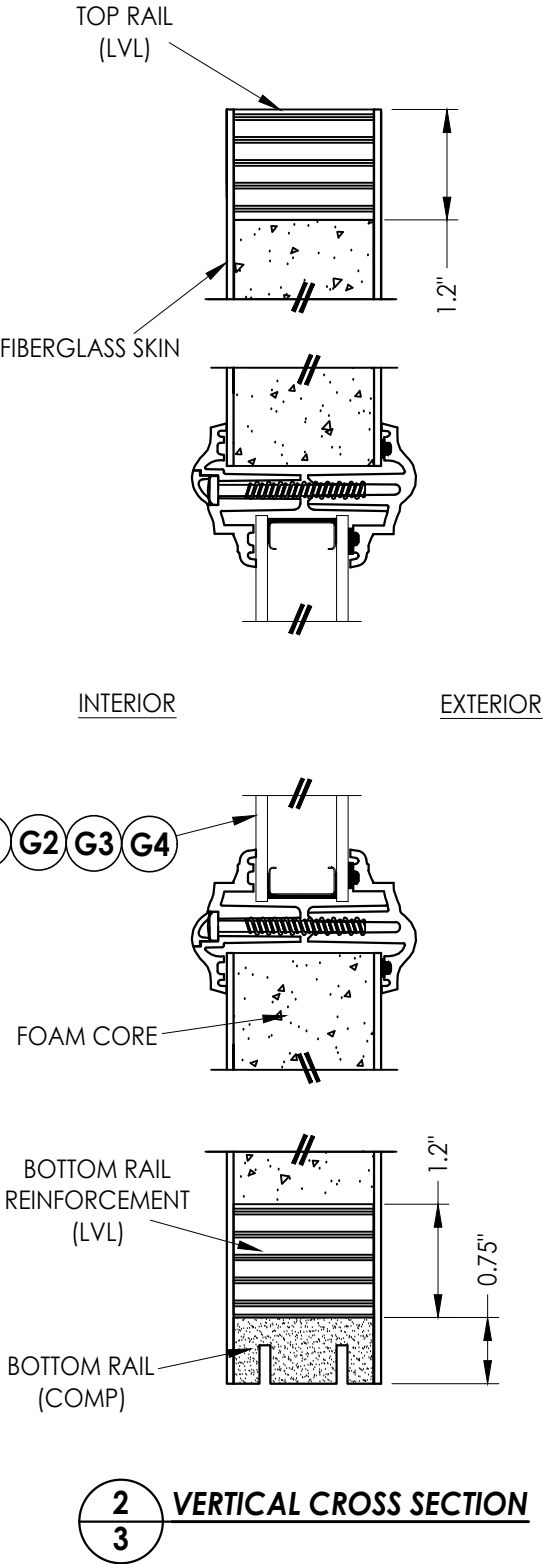
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Z:\2023 FBC Drawings\TKI Products\FL-42433\FL-42433.1.dwg



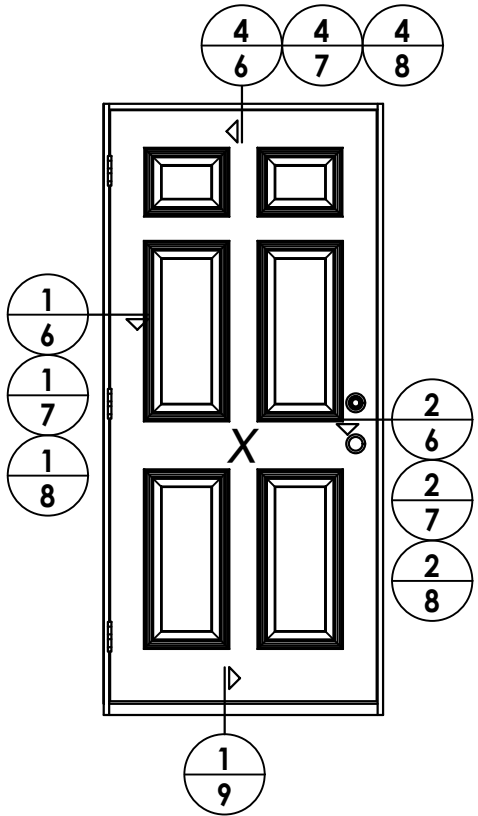
50 FIBERGLASS SIDELITE PANEL
BUILDER SERIES

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

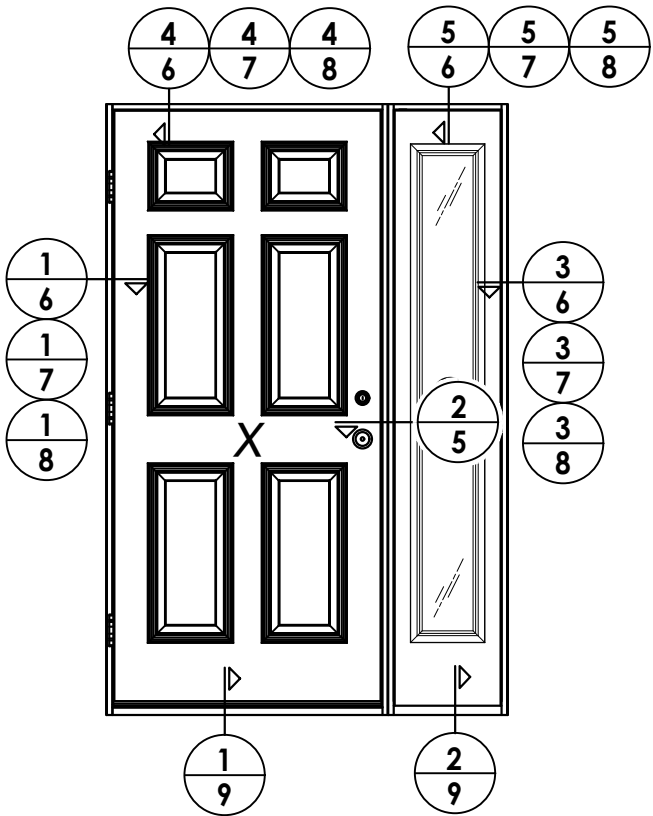


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: TKI PRODUCTS FIBERGLASS DOOR		PART OR ASSEMBLY: SIDELITE PANEL DETAILS	
			</

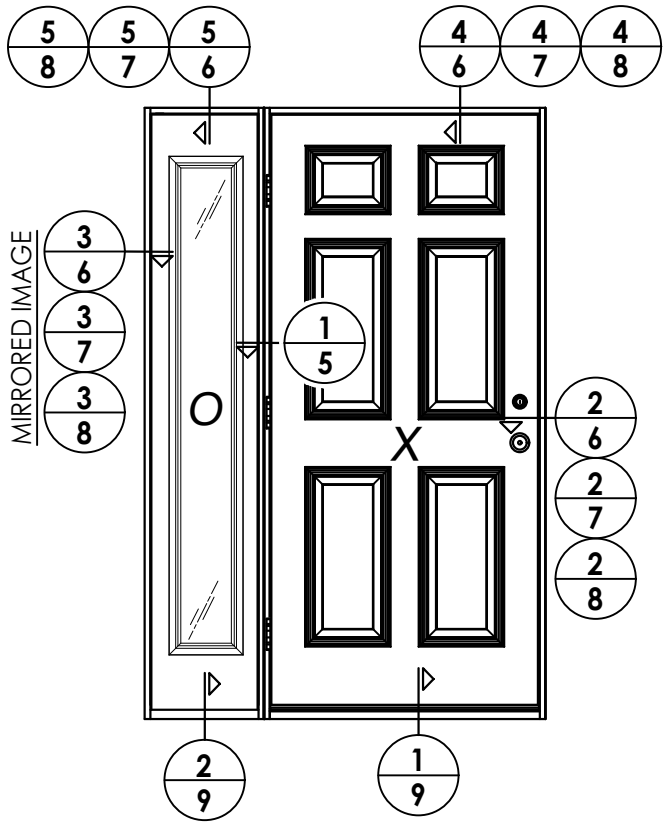
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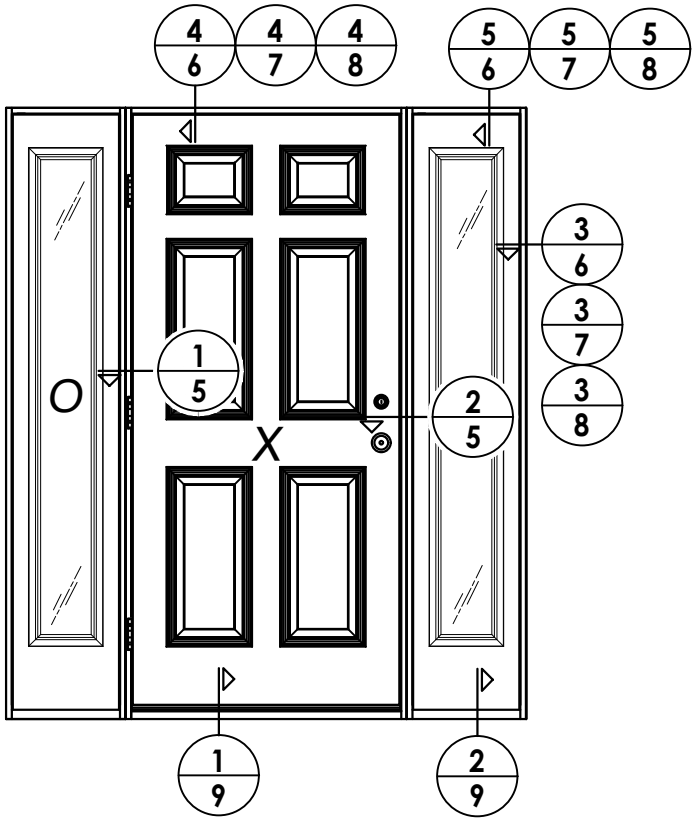
ELEVATION
X



ELEVATION
XO / OX



ELEVATION
OX / XO
(CENTER HINGED)



ELEVATION
OXO

DATE: 9/25/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-42433.1
SHEET 4 OF 13

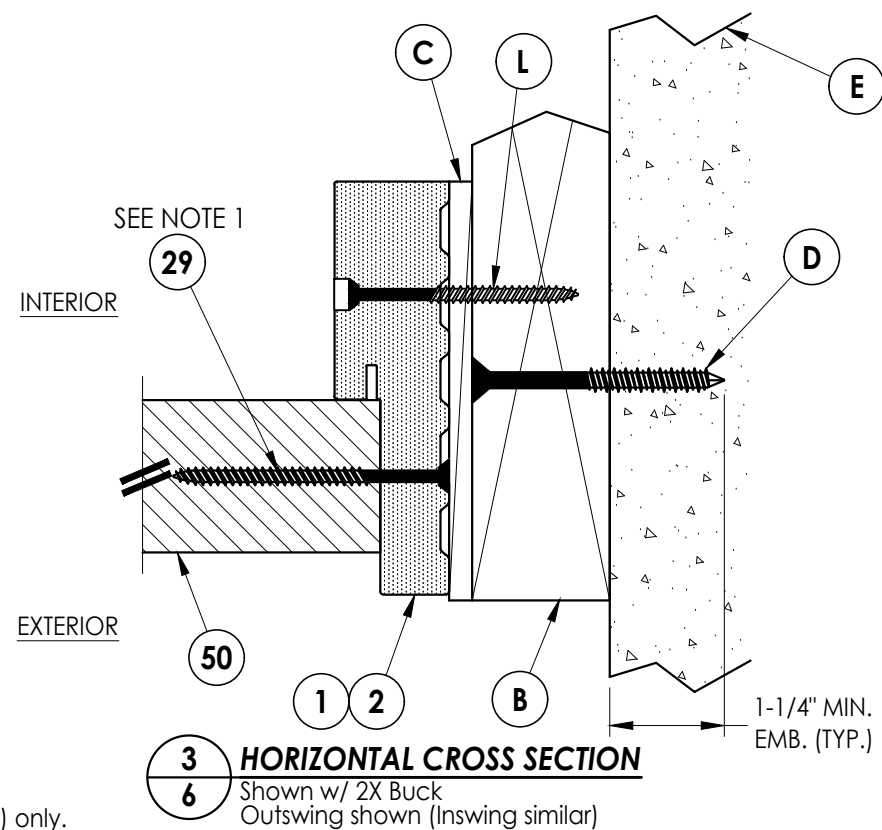
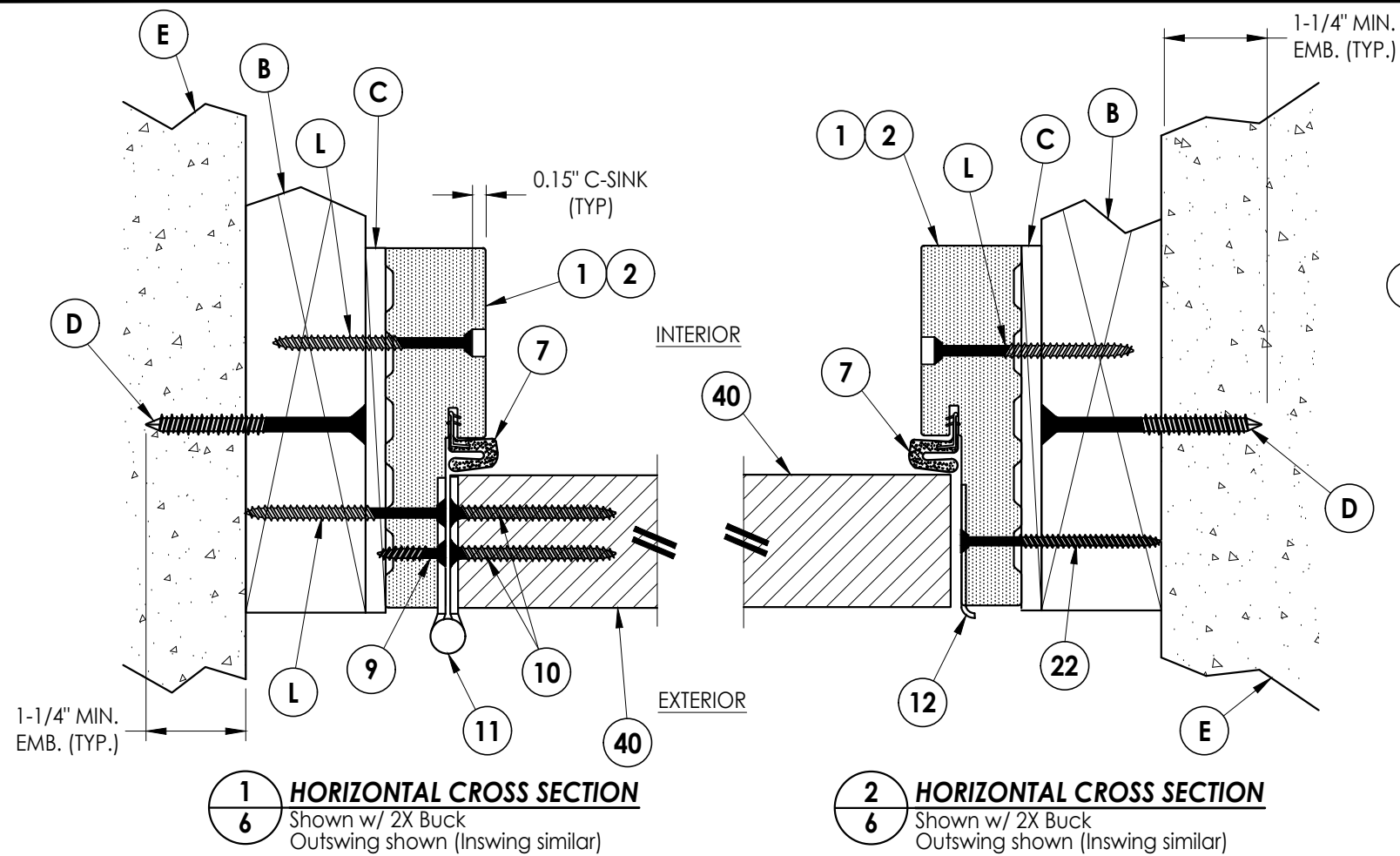
PRODUCT:
TKI PRODUCTS
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

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

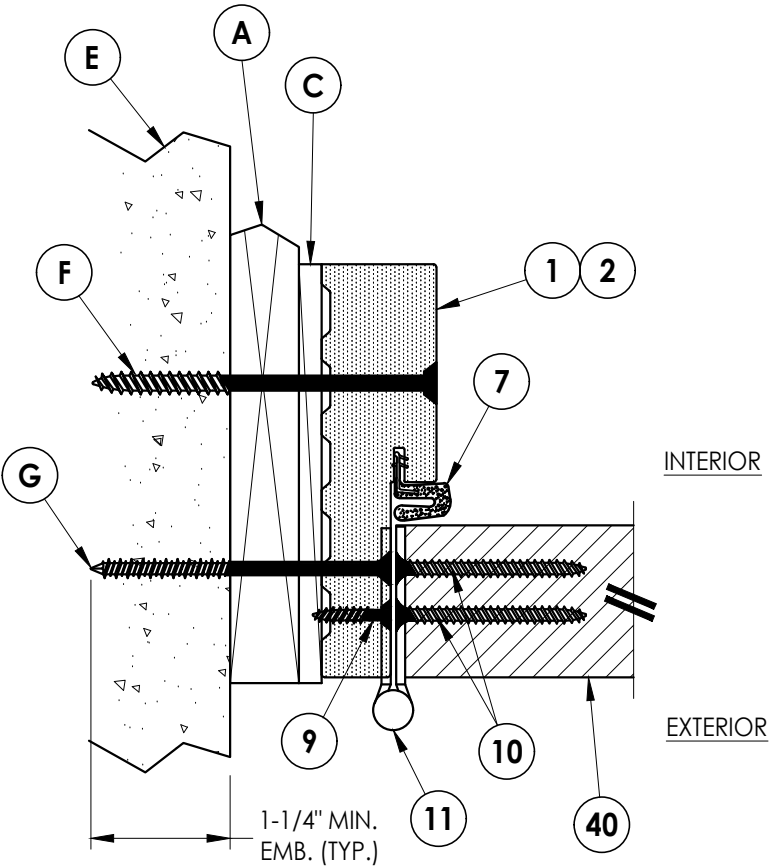
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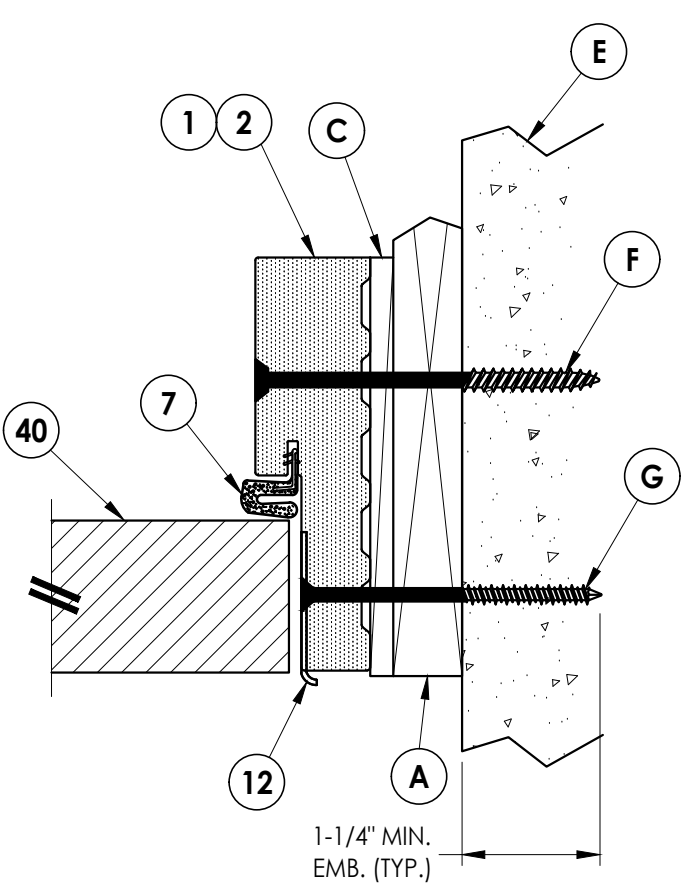
Notes:

DATE: 9/25/23		REVISIONS NO. DATE BY
SCALE: N.T.S.		
DWG. BY: RW		
CHK. BY: LFS		
DRAWING NO.: FL-42433.1		
SHEET 6 OF 13		
PRODUCT: TKI PRODUCTS FIBERGLASS DOOR PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)		
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		

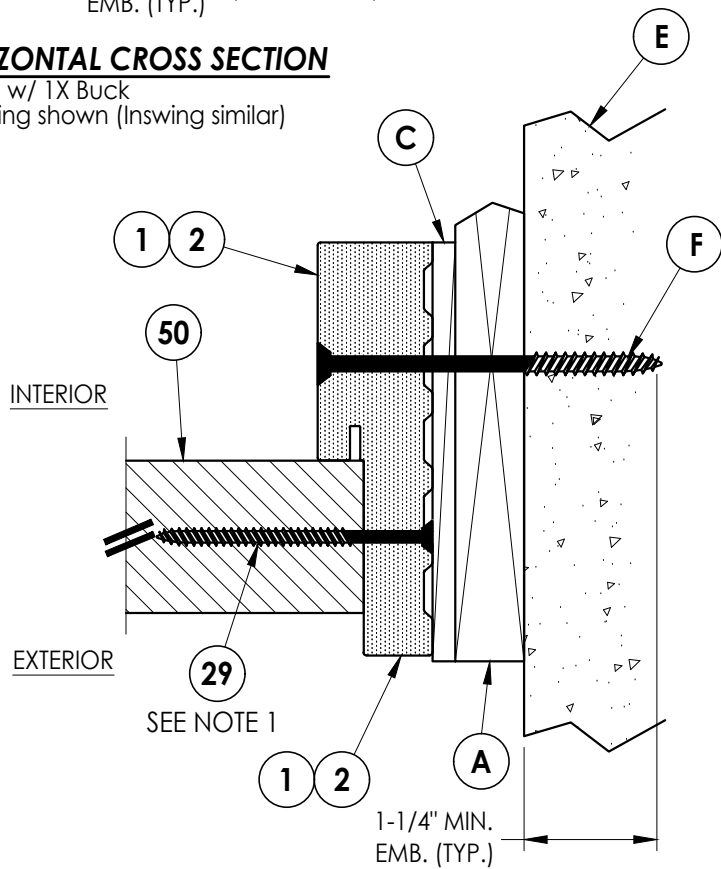
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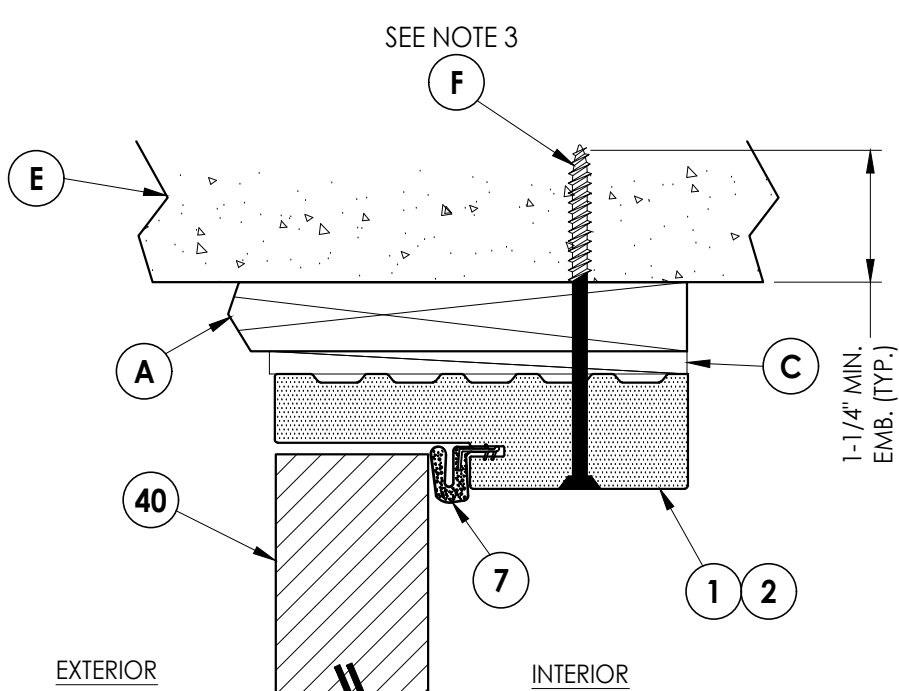
1
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Outswing shown (Inswing similar)



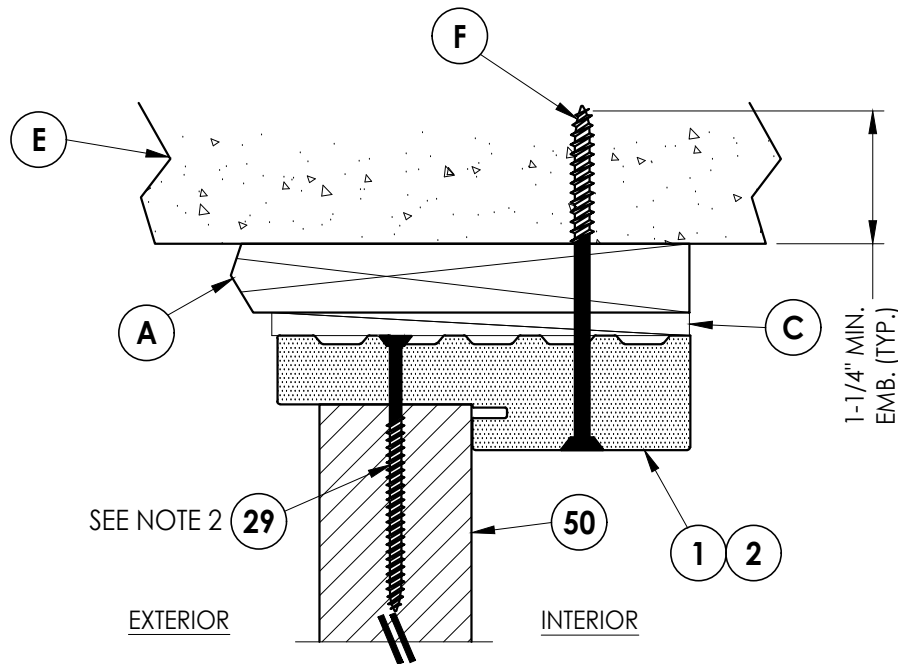
2
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Outswing shown (Inswing similar)



3
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Outswing shown (Inswing similar)



4
7 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
Outswing shown (Inswing similar)



5
7 **VERTICAL CROSS SECTION**
Shown w/ 1X Buck
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 3" from each end (2 screws total along head & sill).
3. Anchor @ head is not required for single door (X) only.

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:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	BY	REVISIONS

DATE: 9/25/23

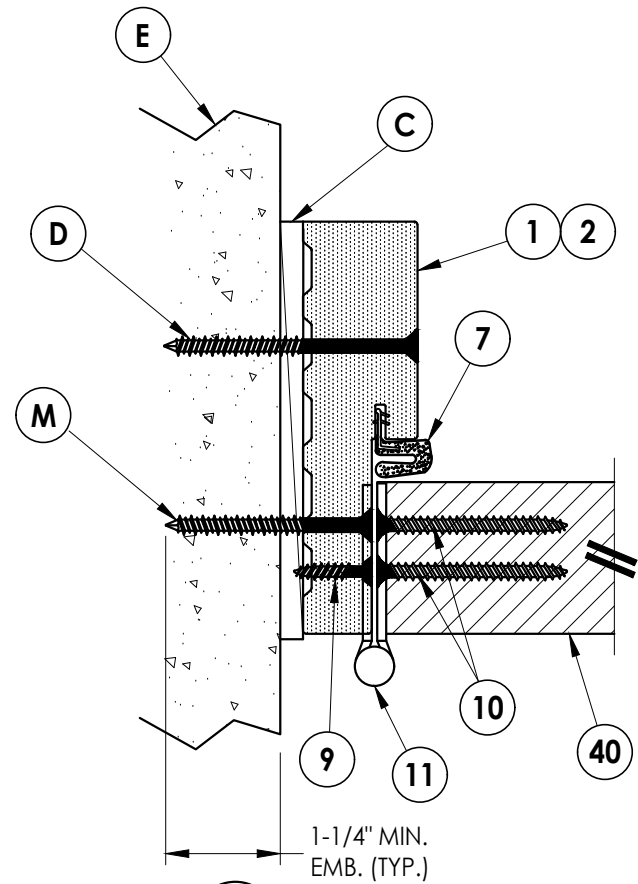
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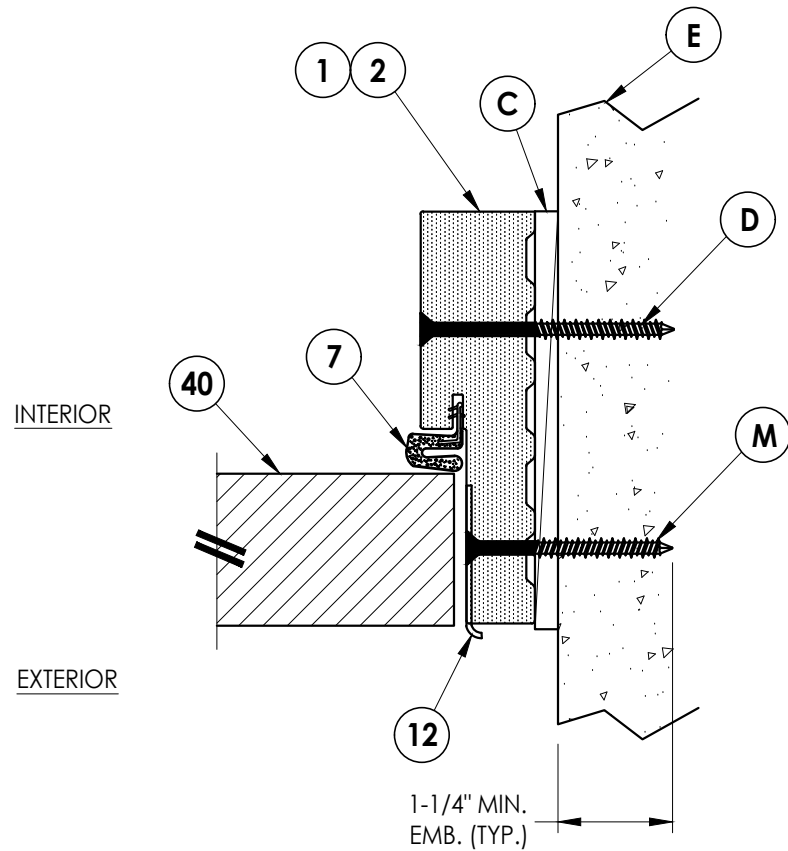
CHK. BY: LFS

DRAWING NO.: FL-42433.1

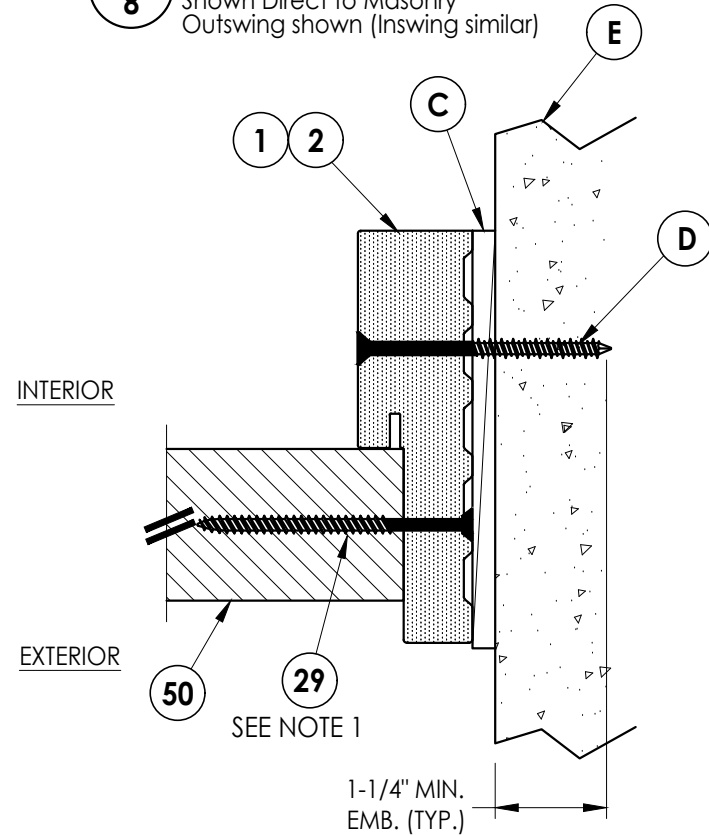
SHEET 7 OF 13



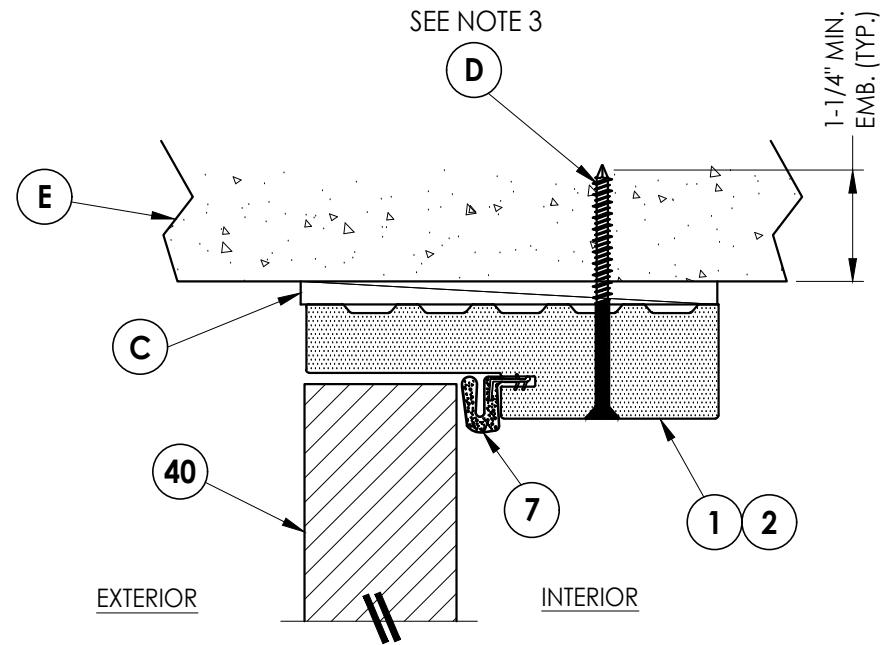
1
8 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing shown (Inswing similar)



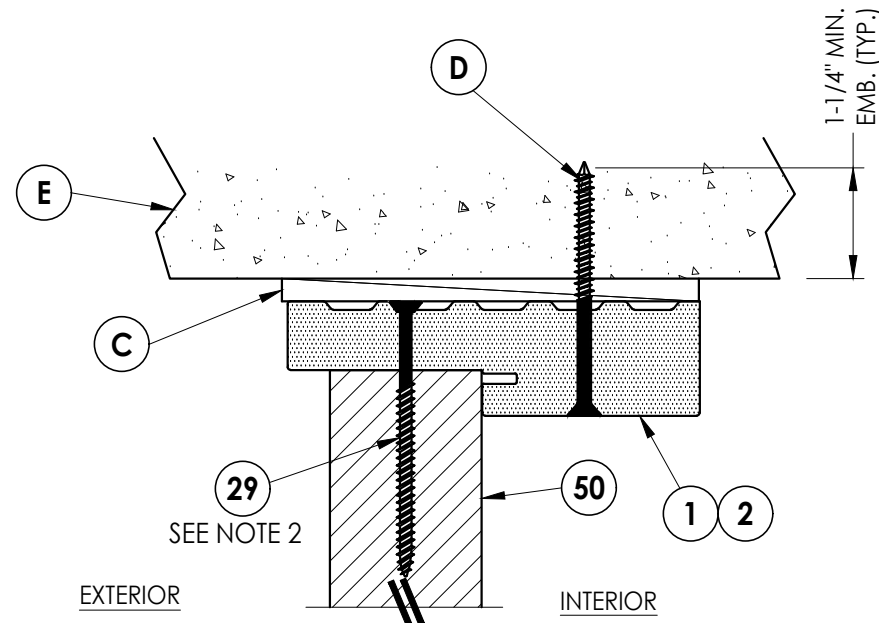
2
8 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing shown (Inswing similar)



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



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



5
8 **VERTICAL CROSS SECTION**
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 3" from each end (2 screws total along head & sill).
3. Anchor @ head is not required for single door (X) only.

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

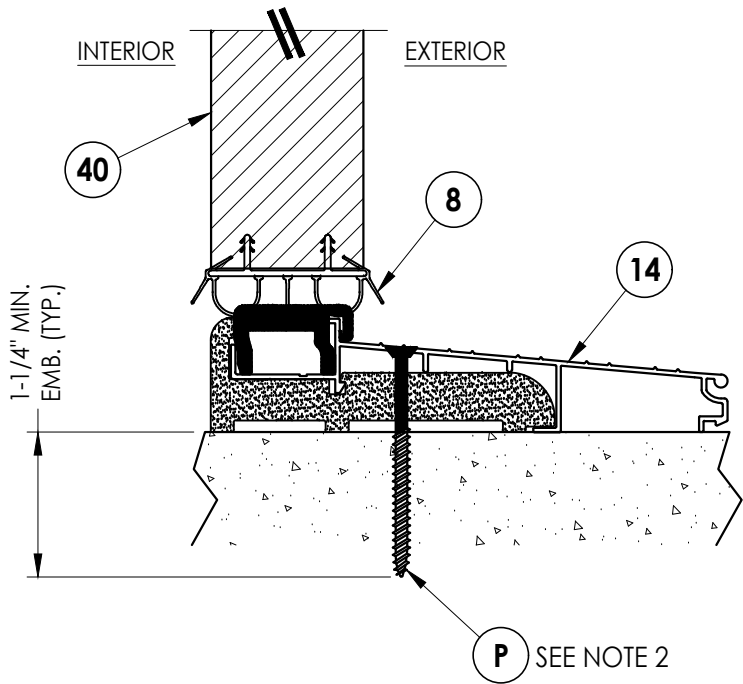
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

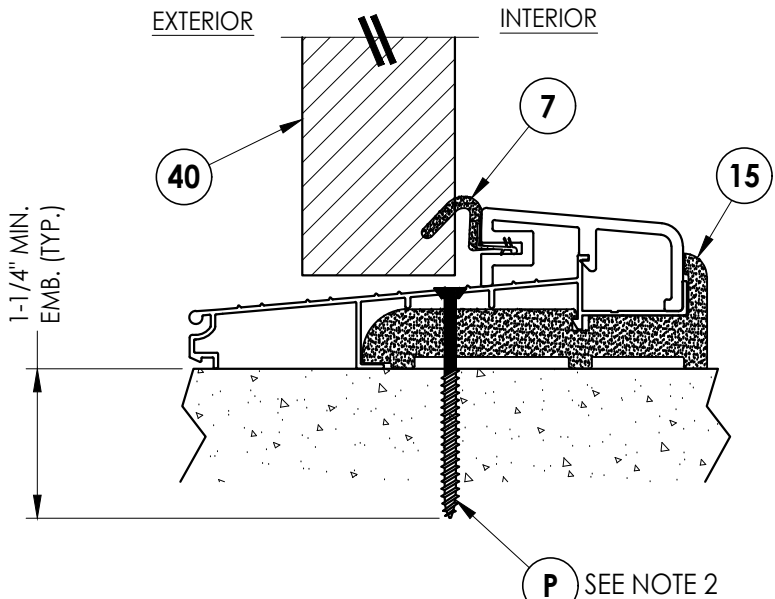
NO.	DATE	REVISIONS	BY

DATE: 9/25/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.:
FL-42433.1
SHEET 8 OF 13

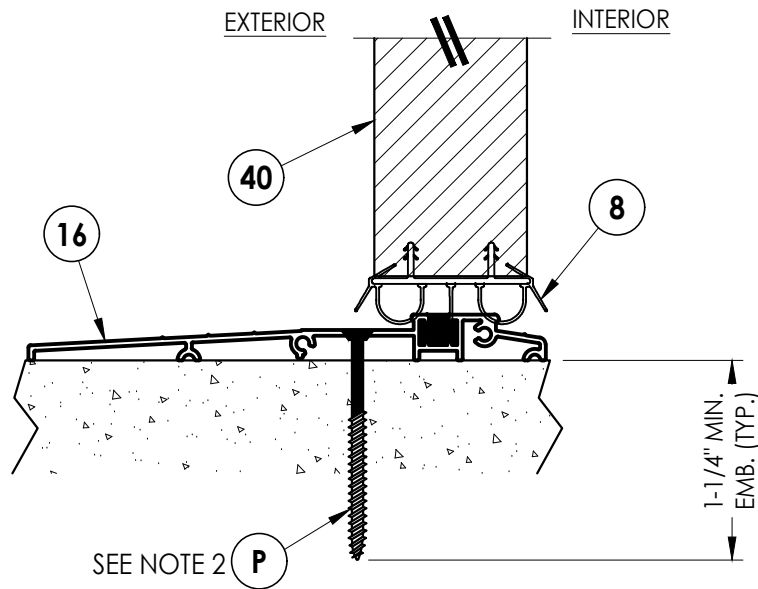
- Notes:
- 1. Sidelite assembly screws located 3" from each end (2 screws total along head & sill).
 - 2. Anchor @ sill is not required for single door (X) only.



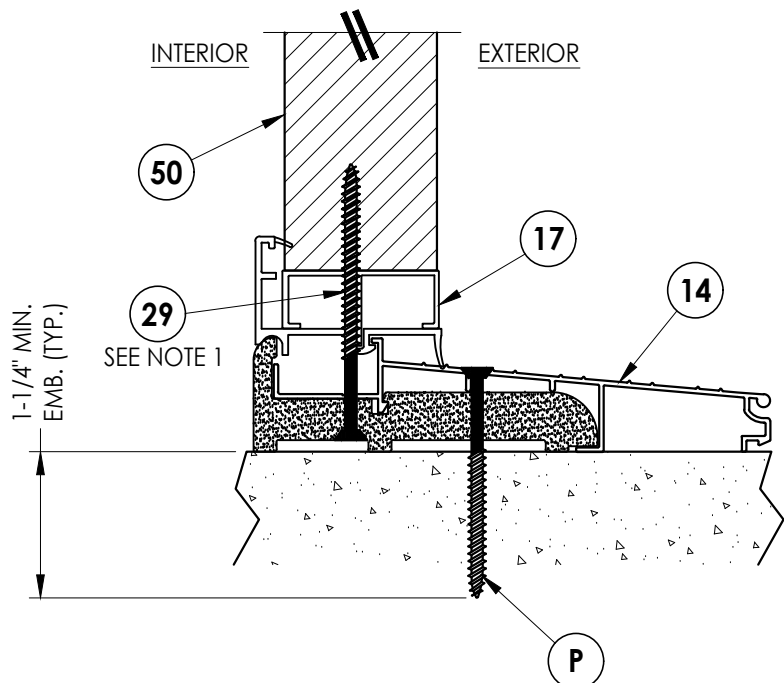
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9 **VERTICAL CROSS SECTION**
Inswing Threshold



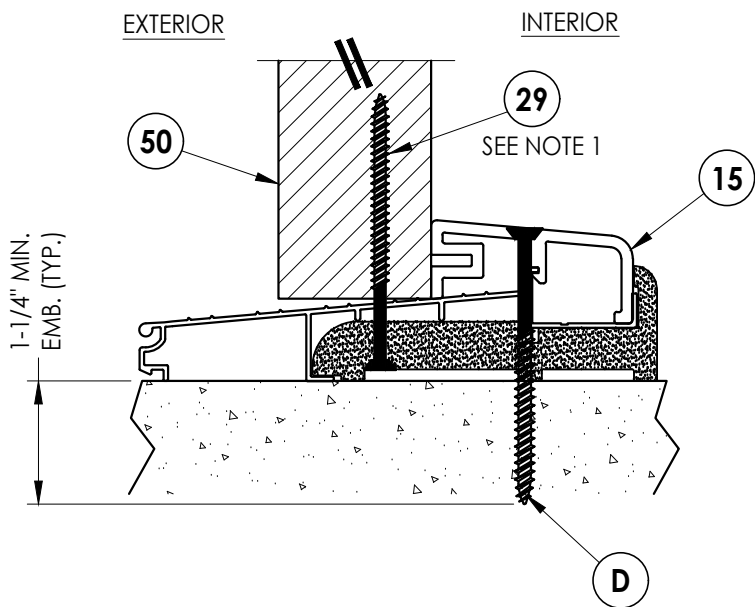
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9 **VERTICAL CROSS SECTION**
Outswing Threshold



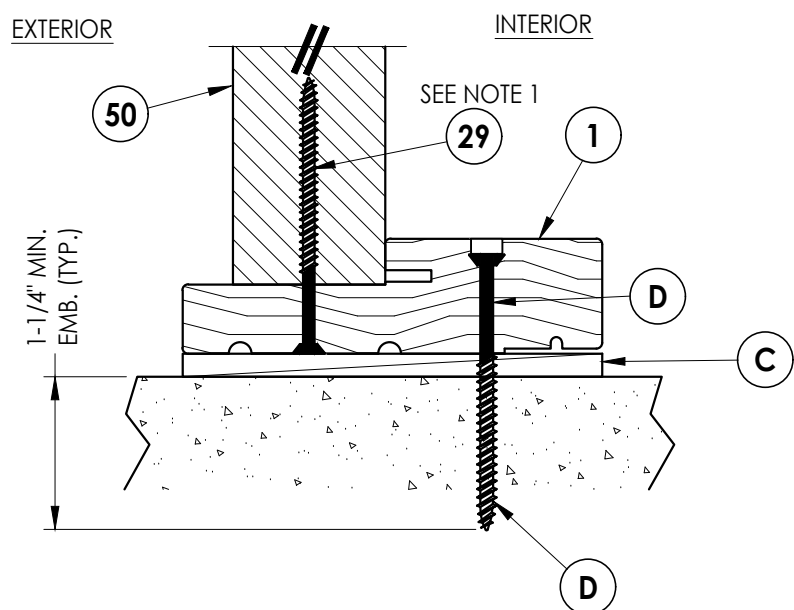
3
9 **VERTICAL CROSS SECTION**
ADA Threshold



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	BY

DATE: 9/25/23

SCALE: N.T.S.

DWG. BY: RW

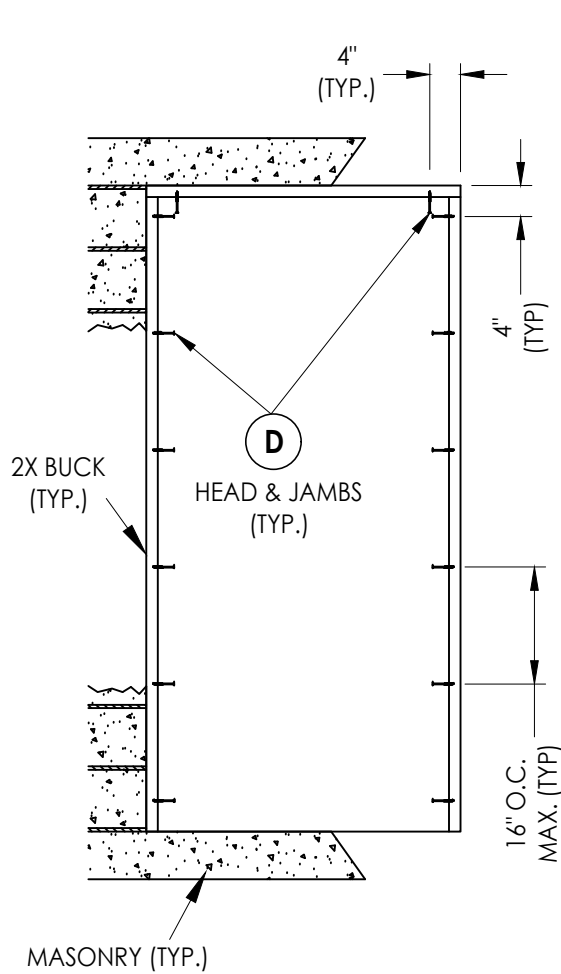
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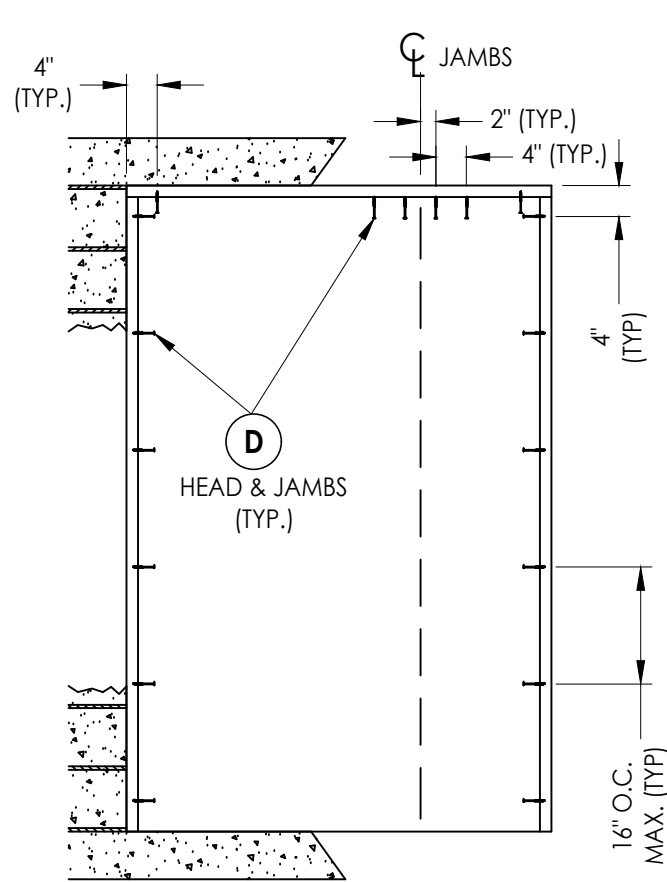
FL-42433.1

SHEET 9 OF 13

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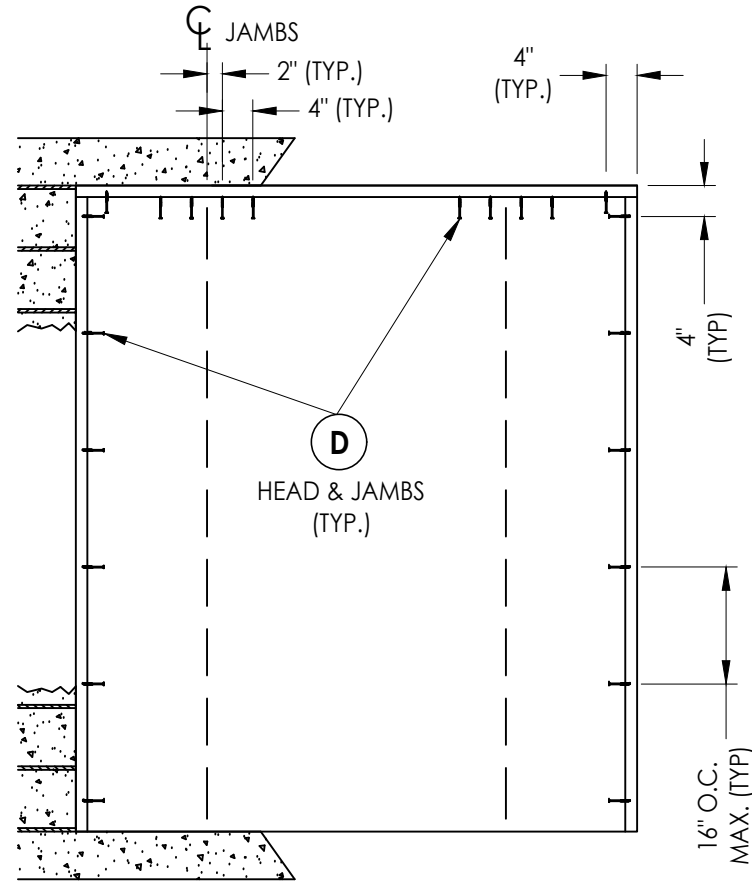


X



XO, OX

2X BUCK ANCHORING



OXO

DATE: 9/25/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-42433.1

SHEET 10 OF 13

PRODUCT:

TKI PRODUCTS
FIBERGLASS DOOR

PART OR ASSEMBLY:

BUCK ANCHORING

BY

NO. DATE

REVISIONS

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

RW

BUILDING CONSULTANTS, INC.

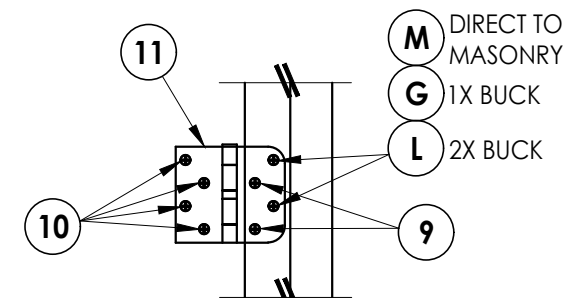
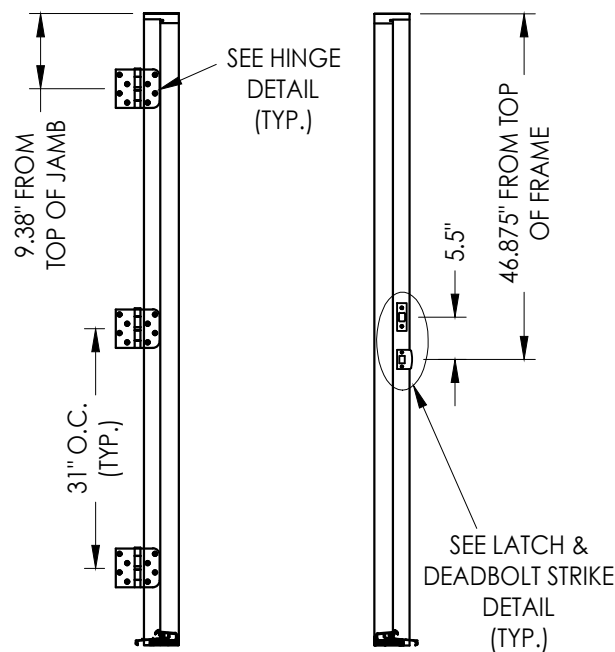
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813

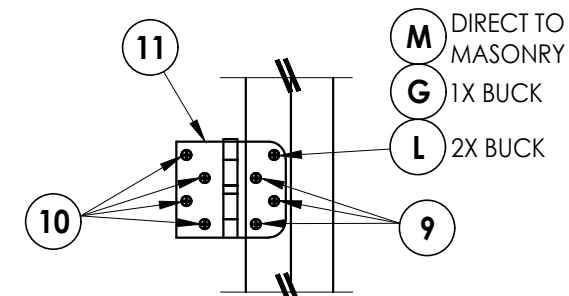
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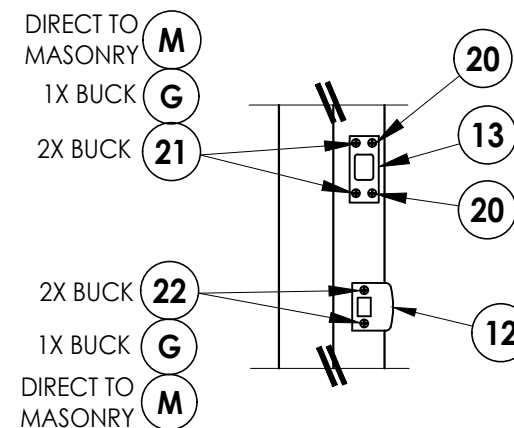
HINGE DETAIL

INSWING

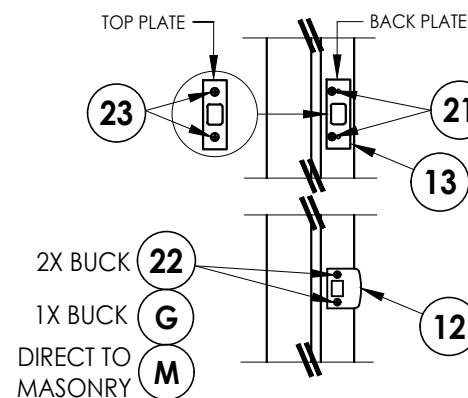


HINGE DETAIL

OUTSWING



LATCH & DEADBOLT STRIKE DETAIL



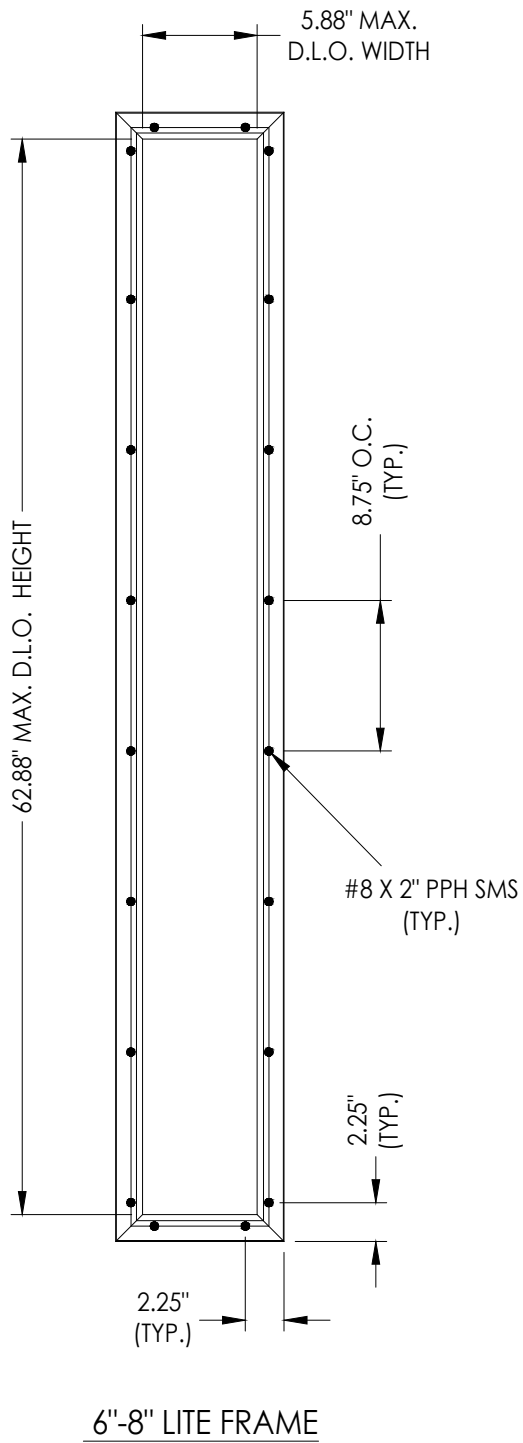
LATCH & DEADBOLT STRIKE DETAIL
SCHLAGE

FRAME ANCHORING

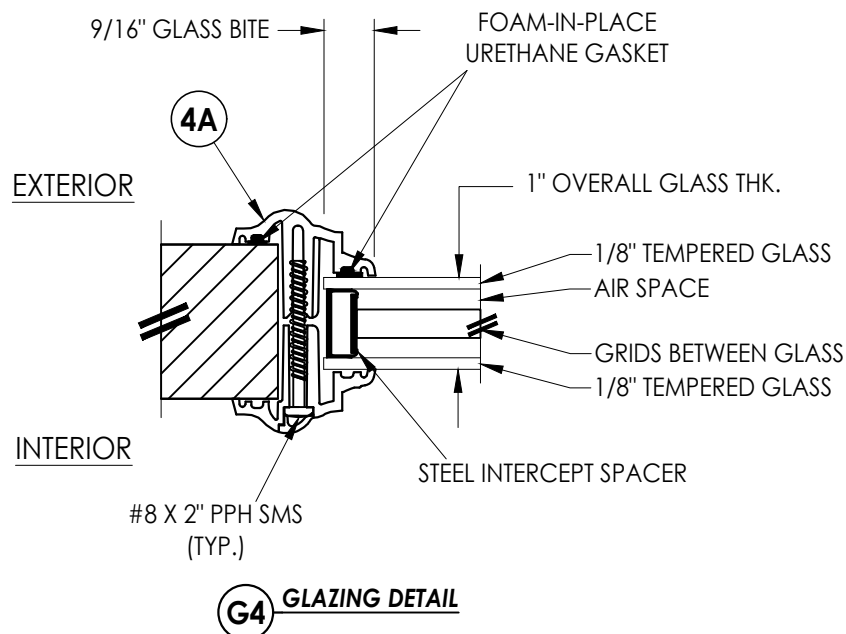
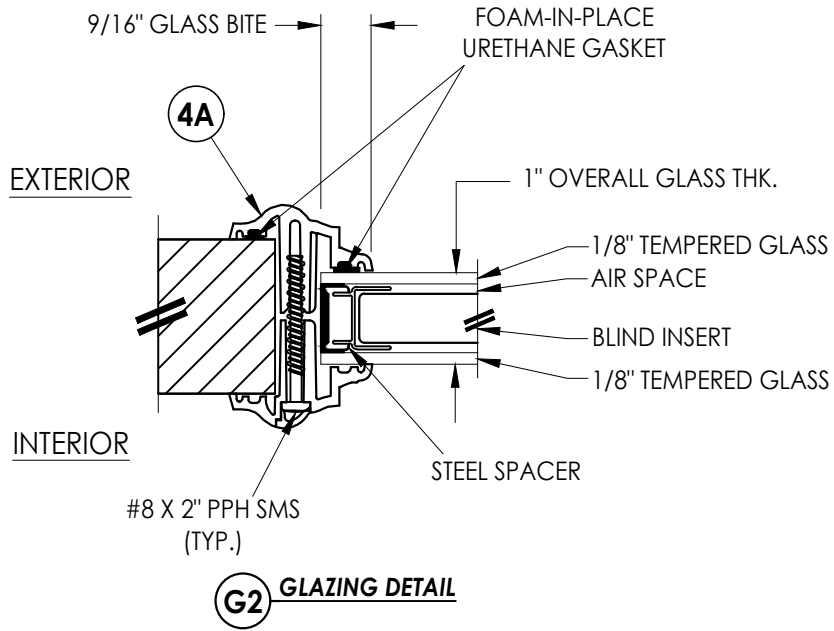
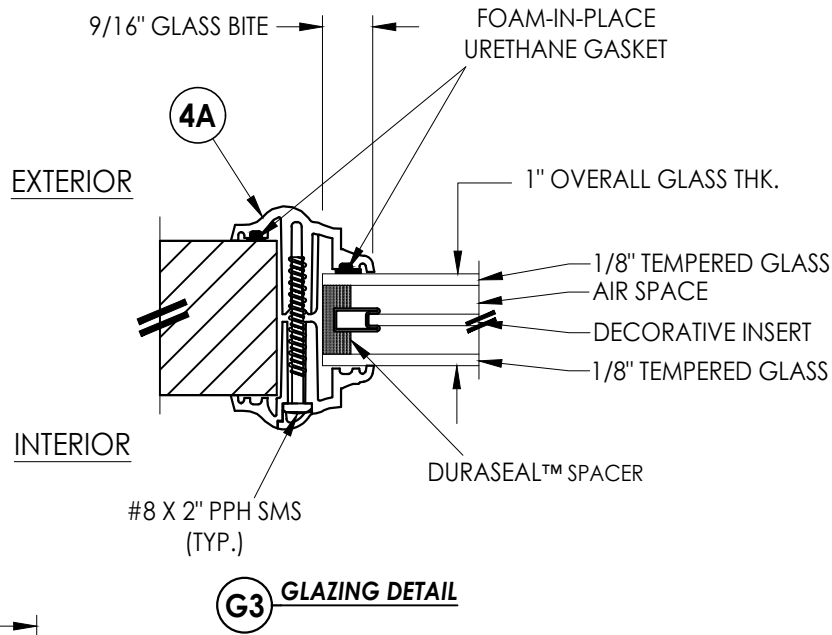
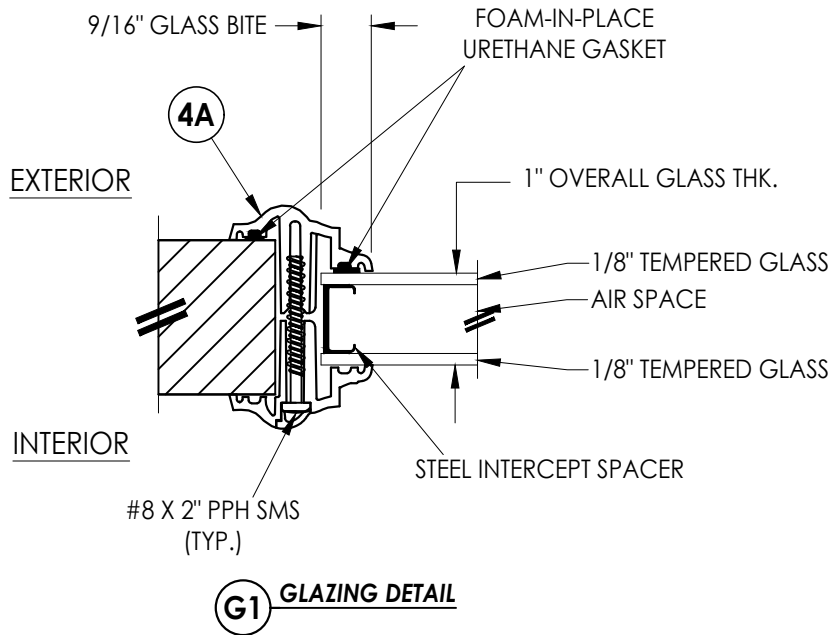
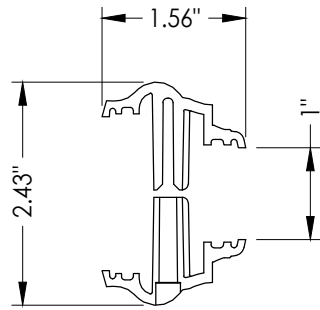
HARDWARE DETAILS

[illegible]

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4A ODL EVOLVE LITE FRAME
HP POLYPROPYLENE



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

PRODUCT:
TKI PRODUCTS
FIBERGLASS DOOR

PART OR ASSEMBLY:
LITE FRAME &
GLAZING DETAILS

DATE: 9/25/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

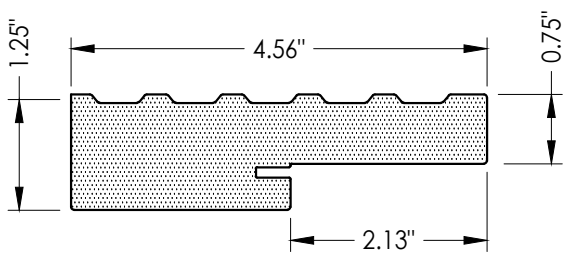
FL-42433.1

SHEET 12 OF 13

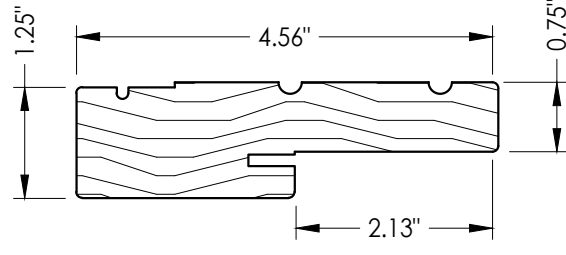
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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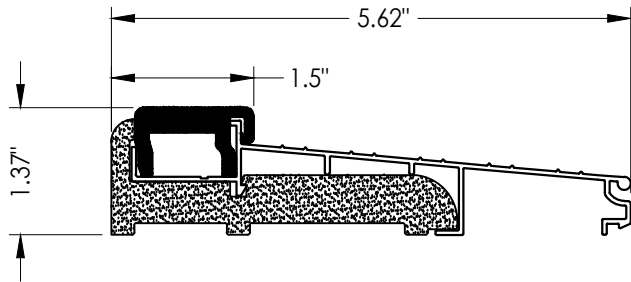
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" 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
X	2X REINFORCEMENT (SG = 0.55)	WOOD
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	INSWING SIDELITE ADAPTER	PVC
20	#9 X 1/2" PFH WOOD SCREW	STEEL
21	#12 X 2-1/2" PFH WOOD SCREW	STEEL
22	#8 X 2-1/2" PFH WOOD SCREW	STEEL
23	10-32 X 3/8" PFH MACHINE SCREW	STEEL
27	#10 X 2" PFH SMS	STEEL
29	#10 X 3" FH COMPOSITE DECK SCREW	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-



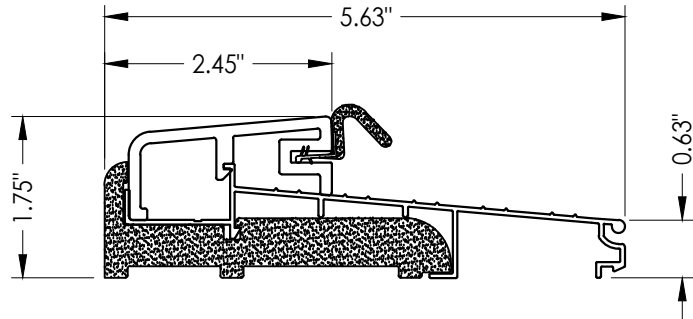
1 **COMPOSITE JAMB**
SURE JAMB (HM SUREROCK)



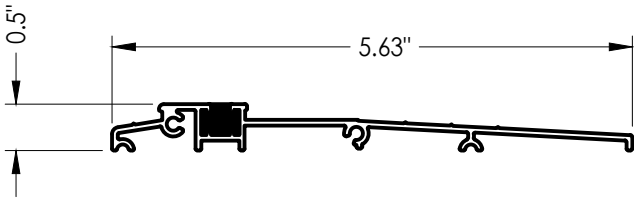
2 **FINGER JOINT PINE JAMB**



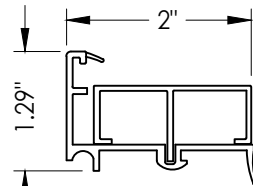
14 **INSWING THRESHOLD**
AFCO IXO



15 **OUTSWING THRESHOLD**
AFCO IXO



16 **OUTSWING ADA THRESHOLD**
COLUMBIA 486



17 **INSWING SIDELITE ADAPTER**

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:
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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:
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-42433.1

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