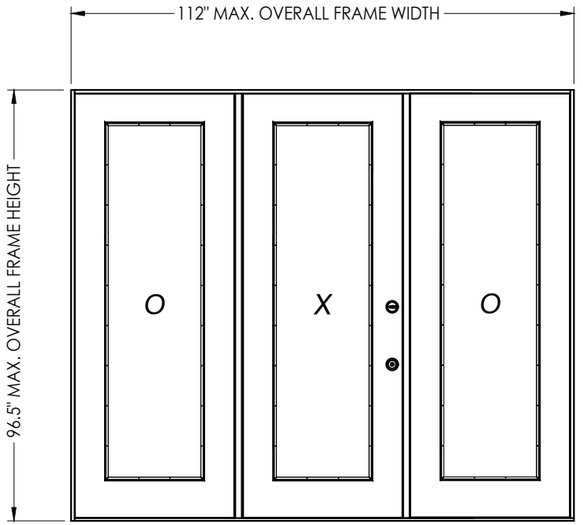
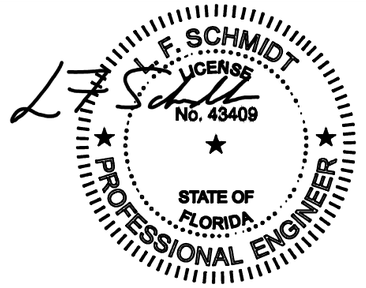
TRINITY GLASS
INTERNATIONAL
33615 1st Way S, Federal Way, WA 98003

GLAZED FIBERGLASS PATIO DOOR
SINGLE
w/ or w/out SIDELITE(S)
OUTSWING
"IMPACT"





Digitally signed by Lyndon F Schmidt
Date: 2026.07.02 07:25:25 -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

GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 9th Edition (2026) Florida Building Code (FBC) including 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 the "HVHZ", this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" 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 includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. This product meets the water infiltration requirements for the "HVHZ".

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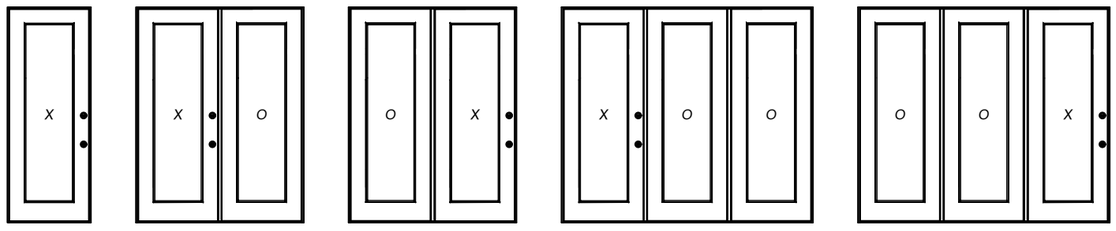
3	Lite Frame Glazing Details	9	Vertical Cross Sections (Thresholds)
4	Elevations	10	Buck Anchoring
5	Horizontal Cross Sections	11	Frame Anchoring & Hardware Details
6	Horizontal & Vertical Cross Sections (2X Buck)	12	Bill of Materials & Components



X | **XO, OX** | **OX, XO** | **XOO, OOX** | **OOX, XOO**

CONTINUOUS HEAD & SILL

CONFIGURATION	MAX. FRAME DIMENSION	INTEGRAL MULLION SIZE	DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE
X	37.5" x 96.5"	N/A	+50.0	-50.0
OX, XO	74.0" x 96.5"	2.125" STD	+40.0	-40.0
	74.75" x 96.5"	2.625" FAT BOY	+50.0	-50.0
OXO, XOO, OOX	111.0" x 96.5"	2.125" STD	+40.0	-40.0
	112.0" x 96.5"	2.625" FAT BOY	+50.0	-50.0

SEE SHEET 3 FOR GLAZING DESIGN PRESSURE LIMITATIONS

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: TRINITY FIBERGLASS PATIO DOOR "Impact"

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

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC	LFS

DATE: 6/13/23
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CHK. BY: LFS
DRAWING NO.: FL-37184.3
SHEET 1 OF 12

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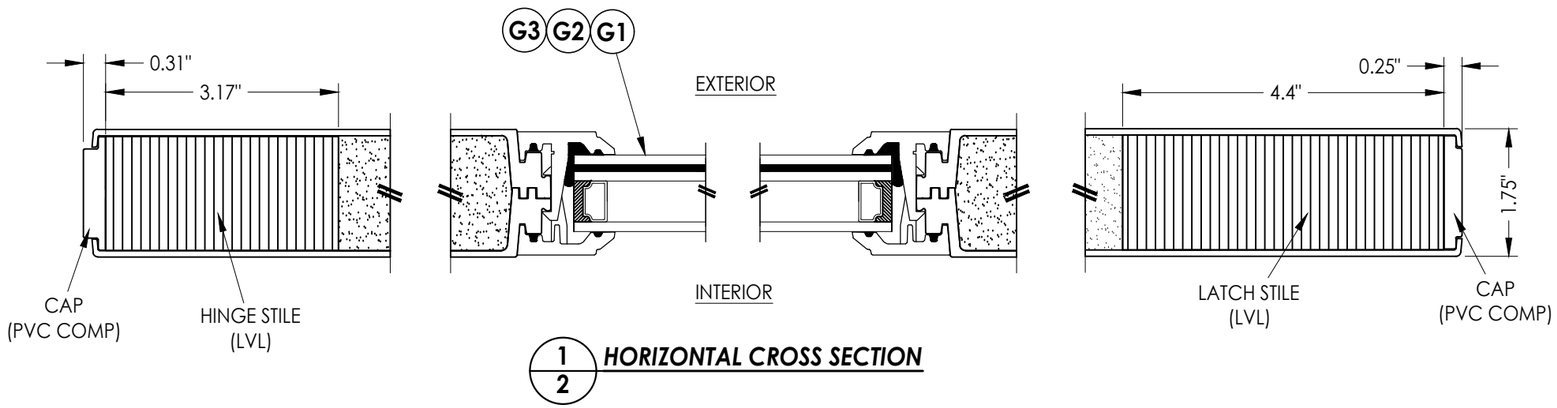
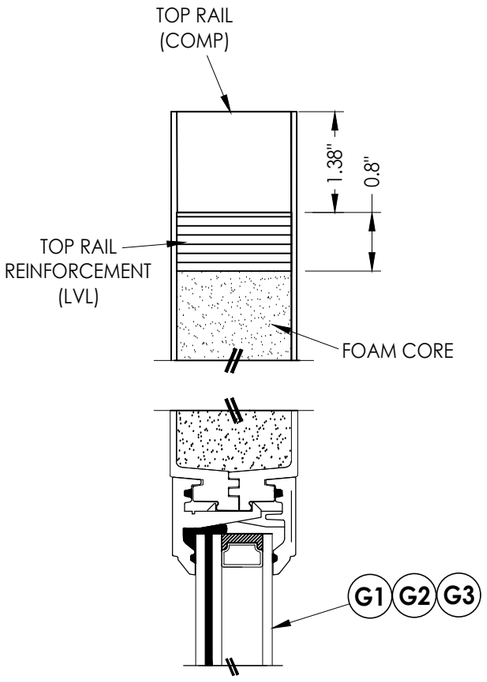
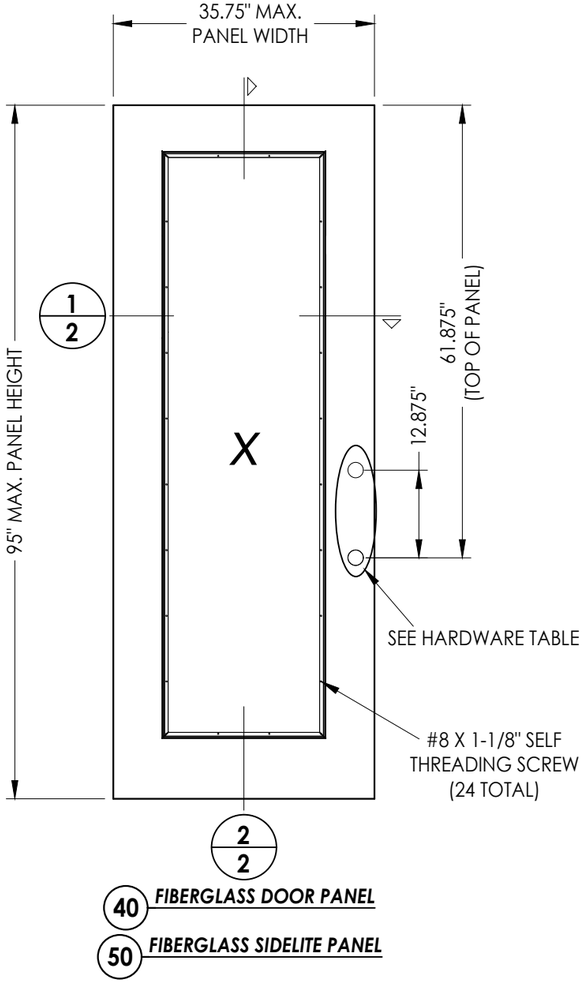


1/2 ***HORIZONTAL CROSS SECTION***



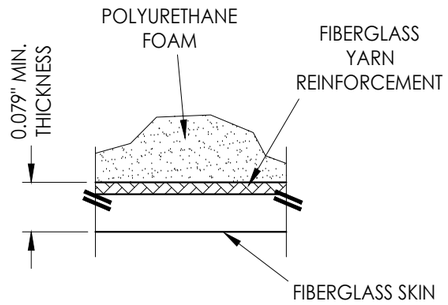


1/2

2/2

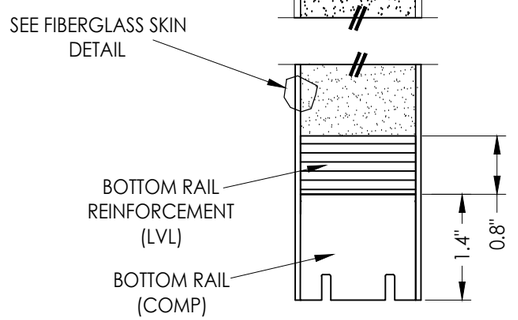
40 ***FIBERGLASS DOOR PANEL***

50 ***FIBERGLASS SIDELITE PANEL***



FIBERGLASS SKIN DETAIL

HARDWARE TABLE	
MANUFACTURER	***MODEL***
KWIKSET	**KNOB: SIGNATURE SERIES** **DEADBOLT: SIGNATURE SERIES (980)**



2/2 ***VERTICAL CROSS SECTION***

FIBERGLASS SKIN: 0.079" MIN. THK. (Fy = 10,000 PSI MIN.)
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.)

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PRODUCT: *TRINITY FIBERGLASS PATIO DOOR "Impact"*

PART OR ASSEMBLY: *DOOR & SIDELITE PANEL DETAILS*

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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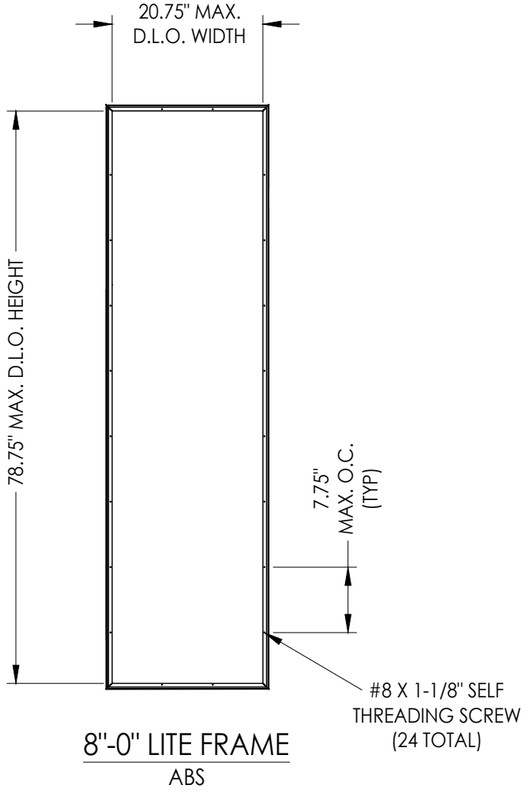
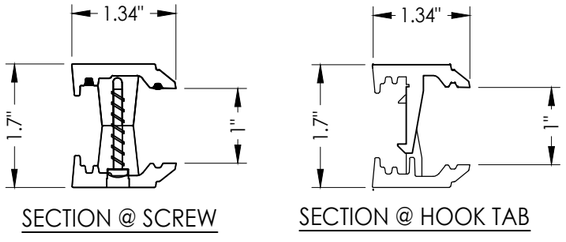
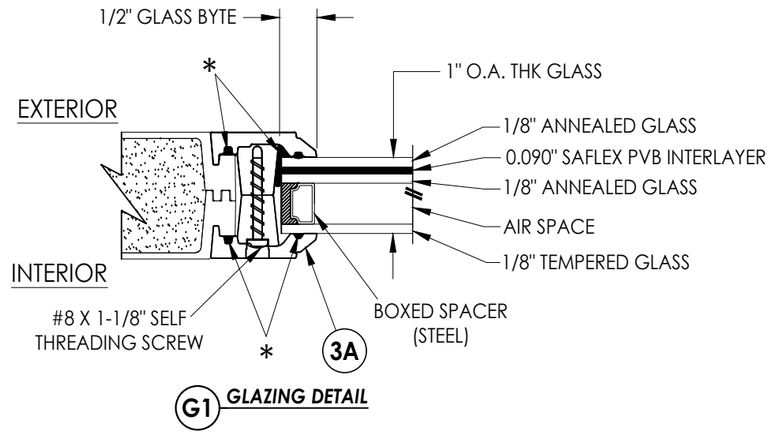


8"-0" LITE FRAME
ABS

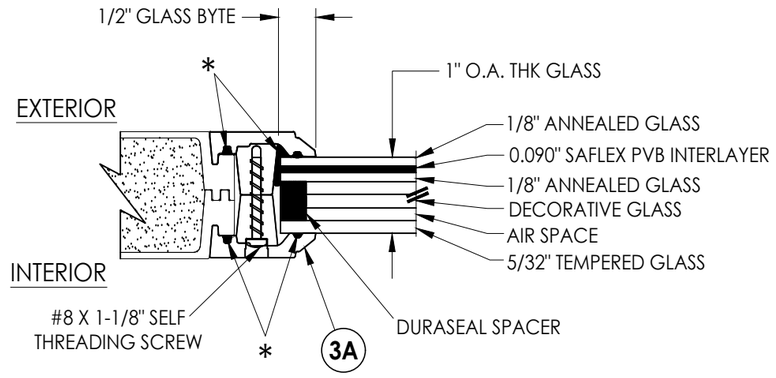


3A **FLUSH GLAZING FRAME**
ABS



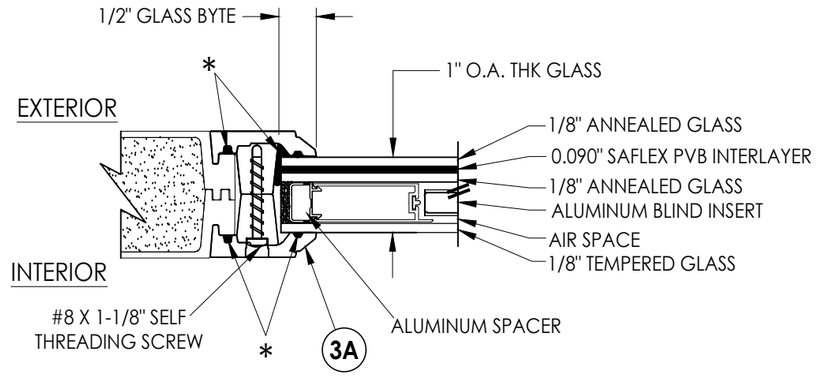
G1 **GLAZING DETAIL**

* DOW 995 STRUCTURAL SEALANT



G2 **GLAZING DETAIL**
DECORATIVE GLASS

DECORATIVE GLASS
MAX. DESIGN PRESSURE = ±40 PSF



G3 **GLAZING DETAIL**
BLINDS BETWEEN GLASS

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PRODUCT: *TRINITY FIBERGLASS PATIO DOOR "Impact"*

PART OR ASSEMBLY: *LITE FRAME GLAZING DETAILS*

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2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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DRAWING NO.: FL-37184.3
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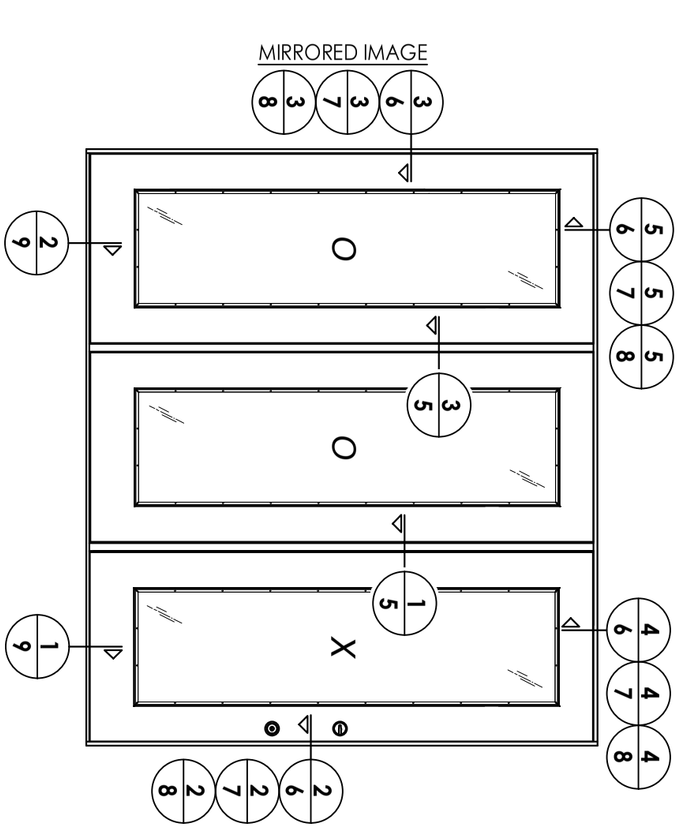

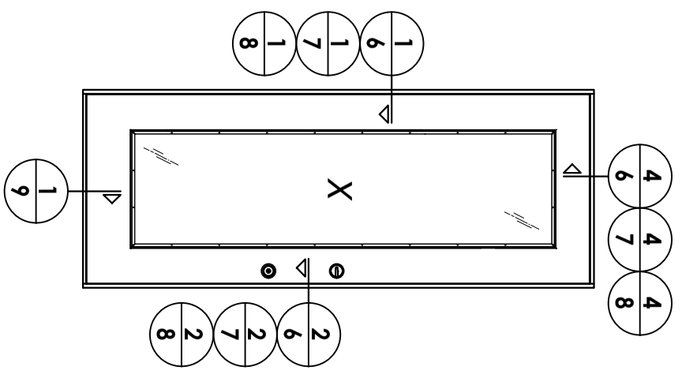

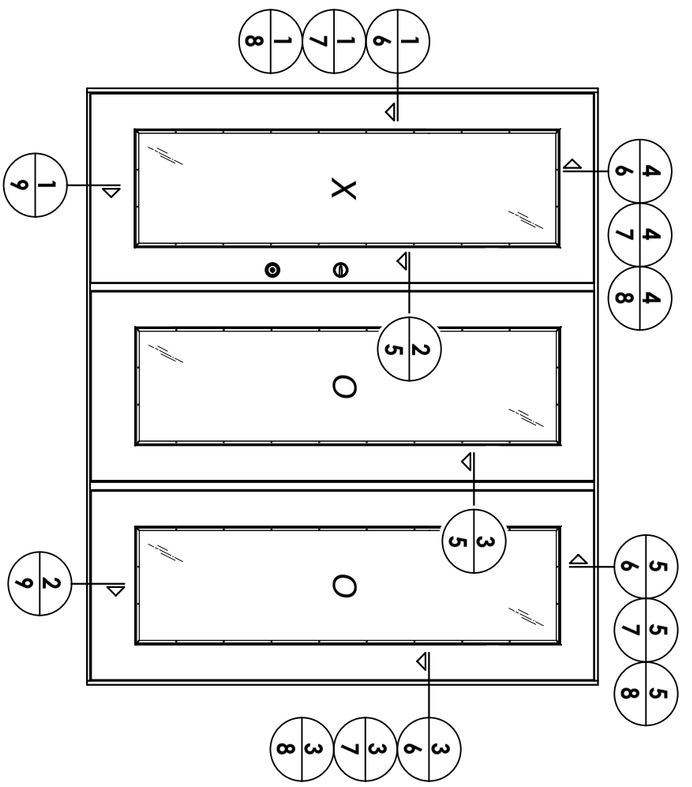

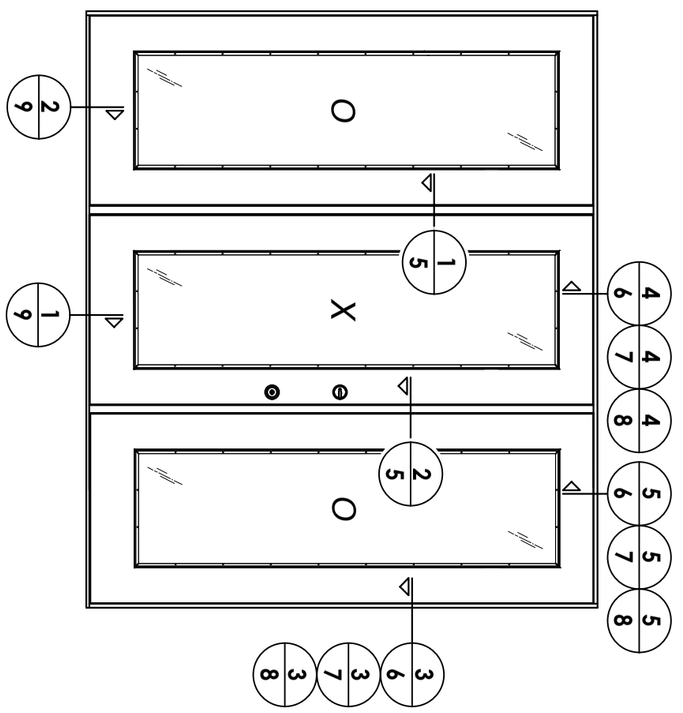

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PRODUCT: TRINITY
FIBERGLASS PATIO DOOR
"Impact"

PART OR ASSEMBLY:
ELEVATIONS

DATE: 6/13/23
SCALE: N.T.S.
DWG. BY: RW
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DRAWING NO.: FL-37184.3
SHEET 4 OF 12

Documents Prepared By:
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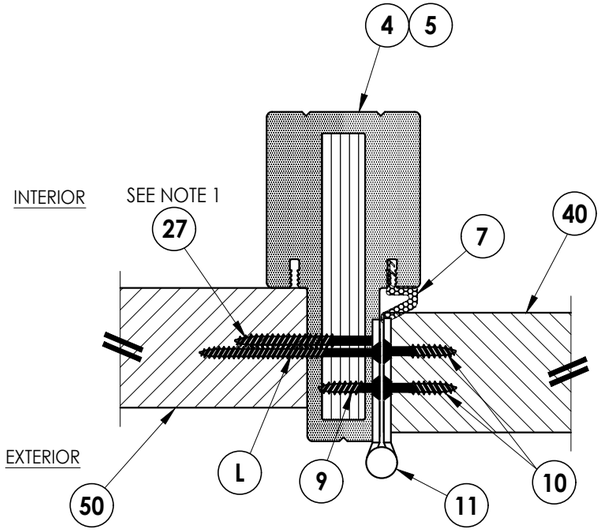
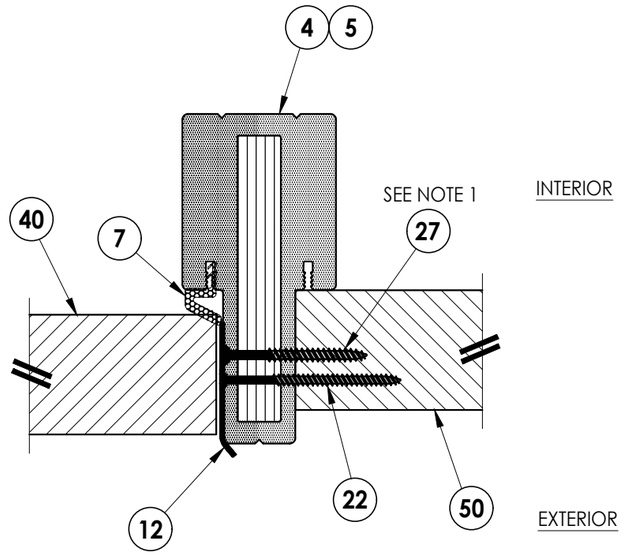
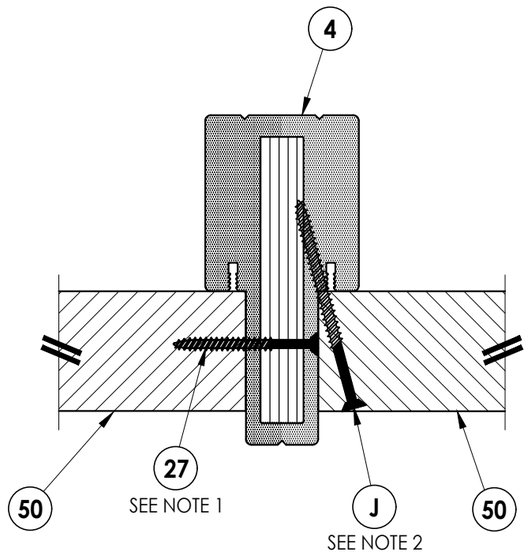


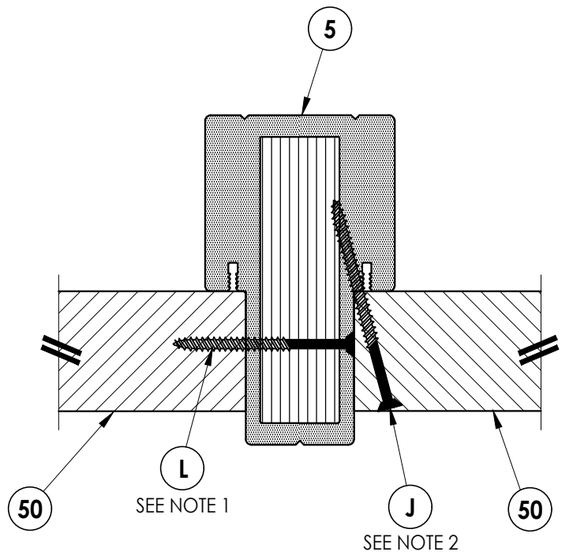
1/5 ***HORIZONTAL CROSS SECTION***
SHOWN w/ STD MULLION



2/5 ***HORIZONTAL CROSS SECTION***
SHOWN w/ STD MULLION



3/5 ***HORIZONTAL CROSS SECTION***
SHOWN w/ STD MULLION



3/5 ***HORIZONTAL CROSS SECTION***
SHOWN w/ FAT BOY MULLION

Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 6" from each end and 6 more screws equally spaced between (8 screws total per side jamb).

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FBPE Registry No. 9813

PRODUCT: *TRINITY FIBERGLASS PATIO DOOR "Impact"*

PART OR ASSEMBLY: *HORIZONTAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC	LFS

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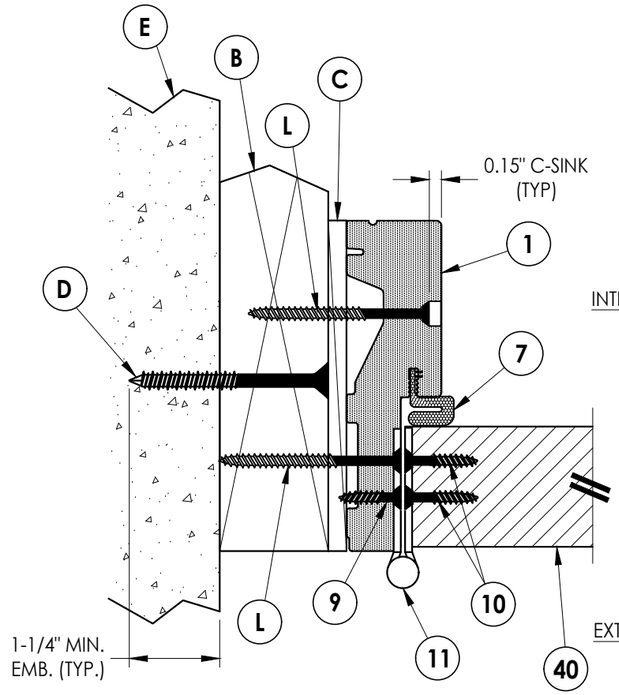
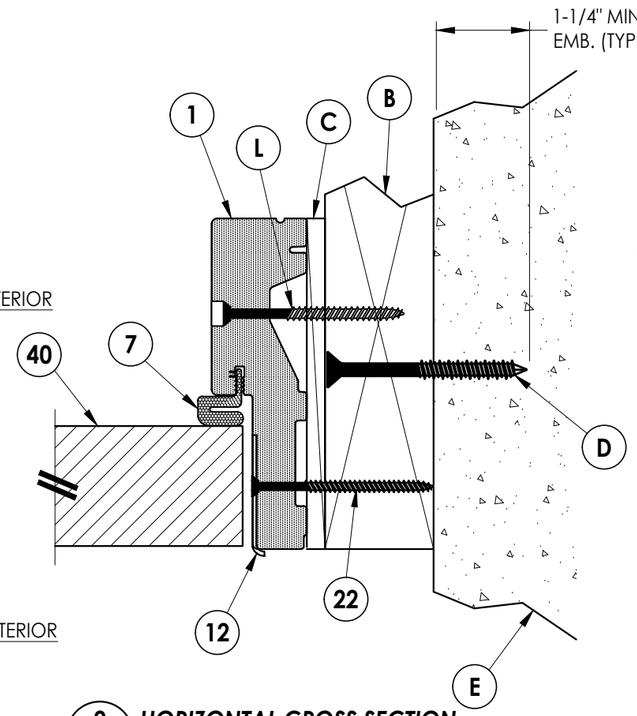


1/6 **HORIZONTAL CROSS SECTION**



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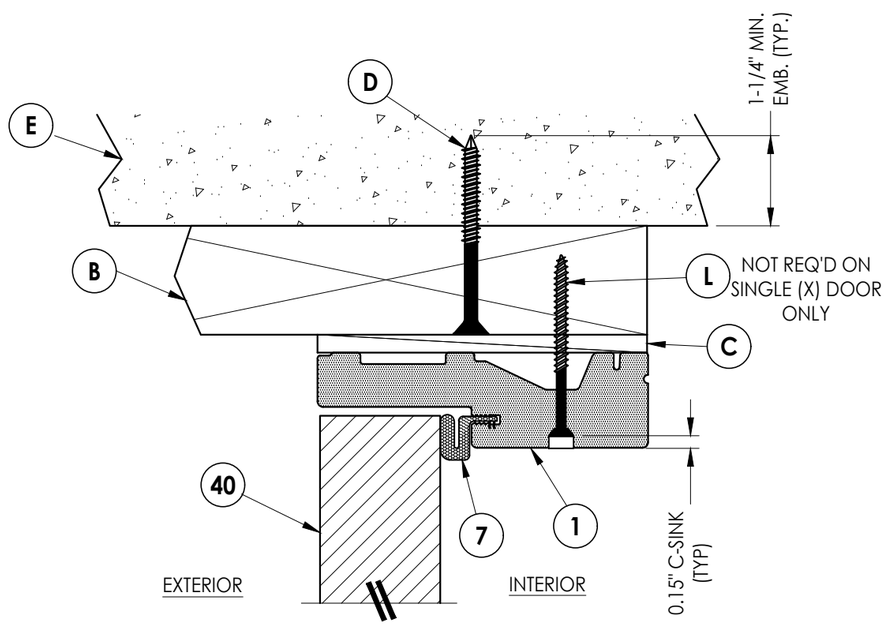
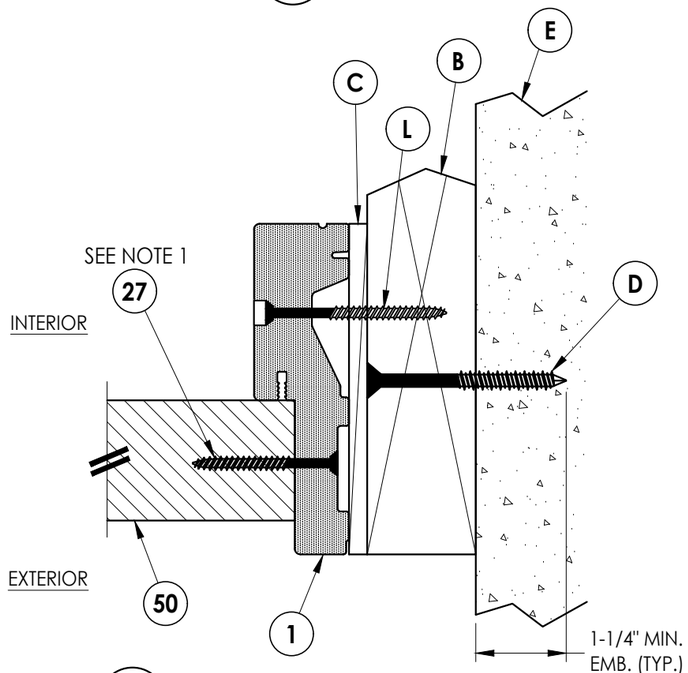
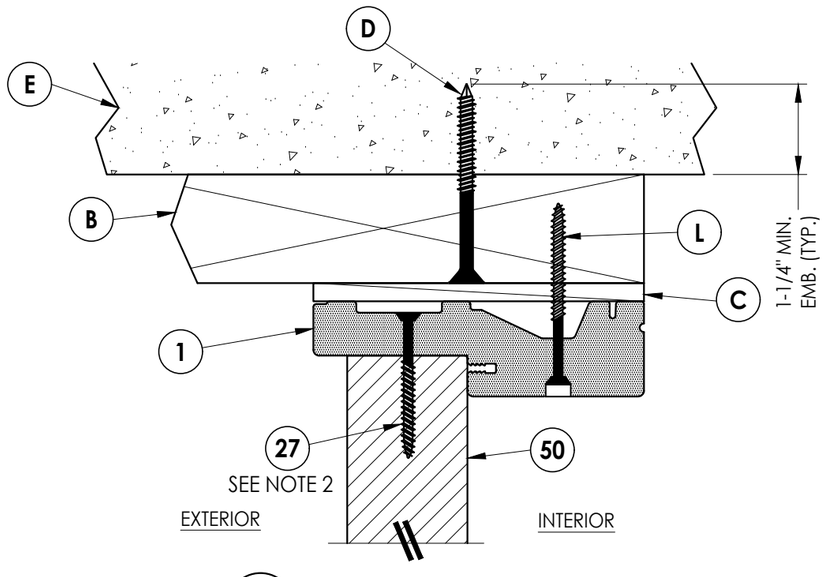


4/6 **VERTICAL CROSS SECTION**



3/6 **HORIZONTAL CROSS SECTION**



5/6 **VERTICAL CROSS SECTION**

Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 10" from each end (2 screws total along head & sill).

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT: *TRINITY FIBERGLASS PATIO DOOR "Impact"*

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

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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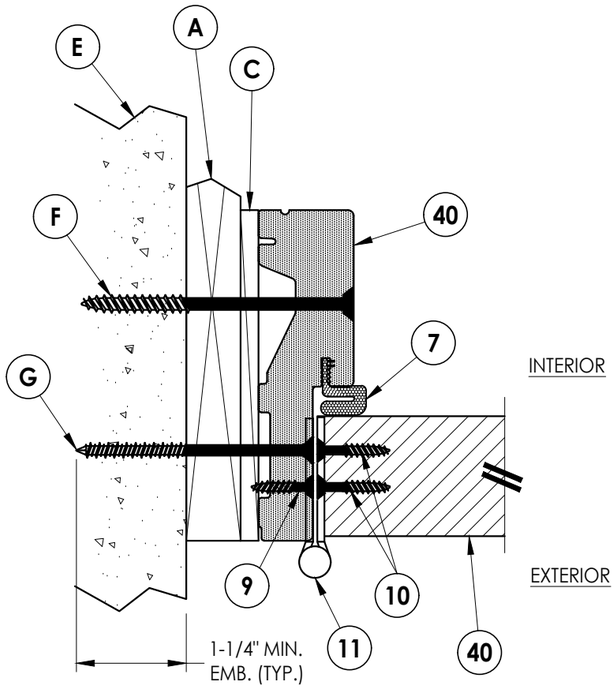
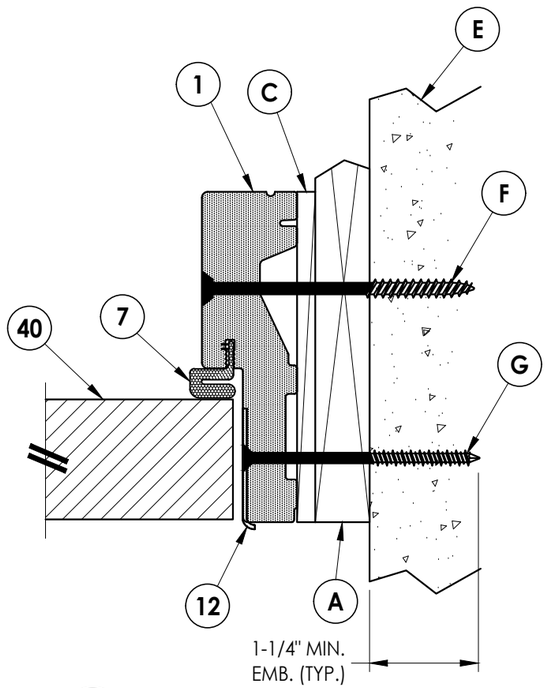
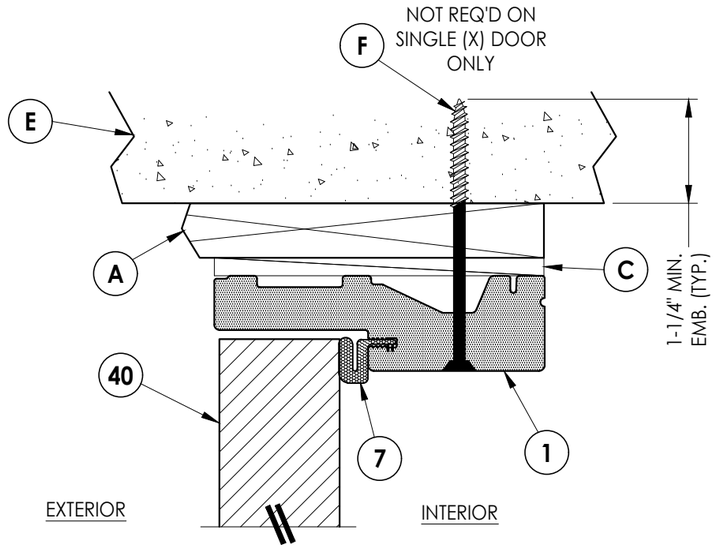


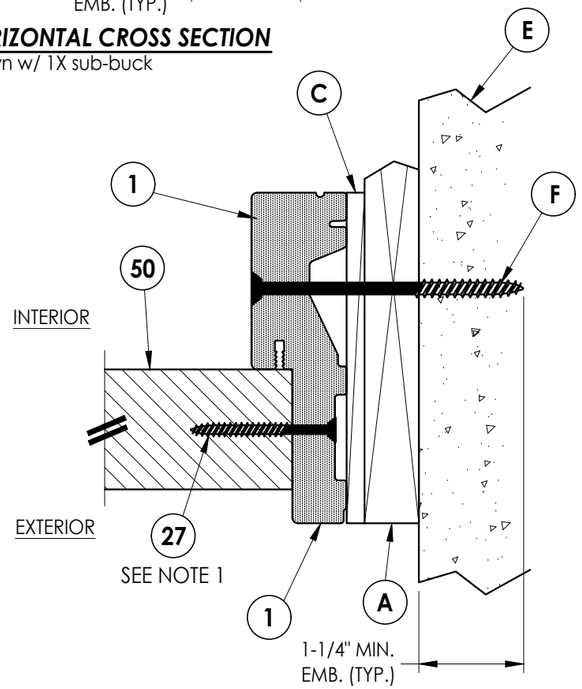
1/7 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck



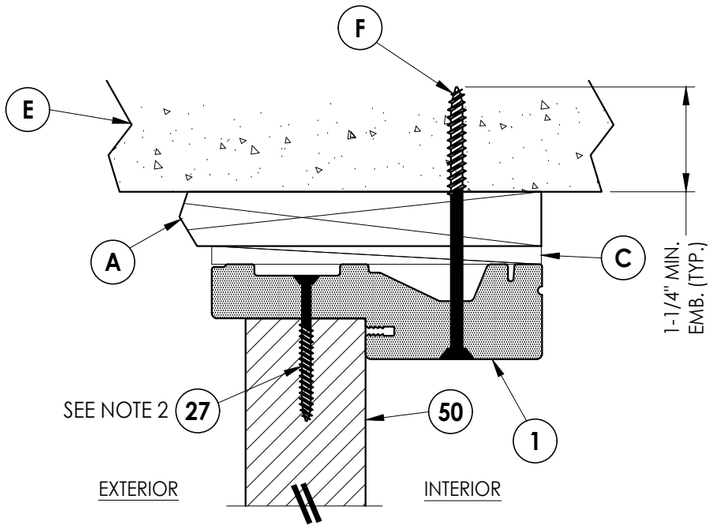
2/7 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck



4/7 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck



3/7 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck



5/7 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck

Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 10" from each end (2 screws total along head & sill).

Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: *FIBERGLASS PATIO DOOR "Impact"* — *TRINITY*

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

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026)	FBC
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			LFS

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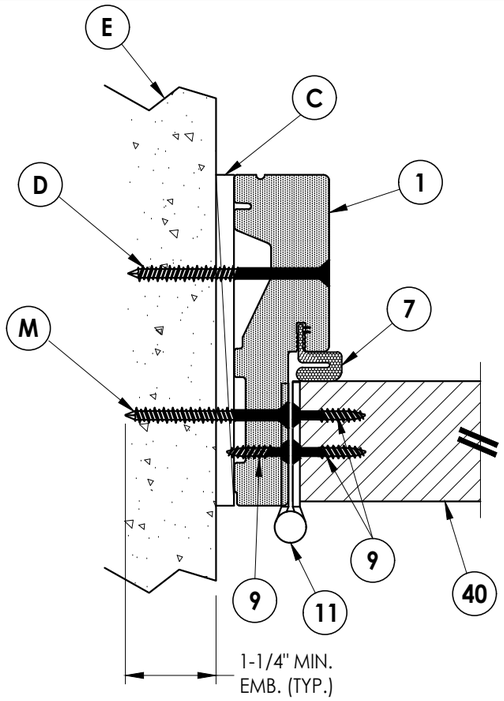
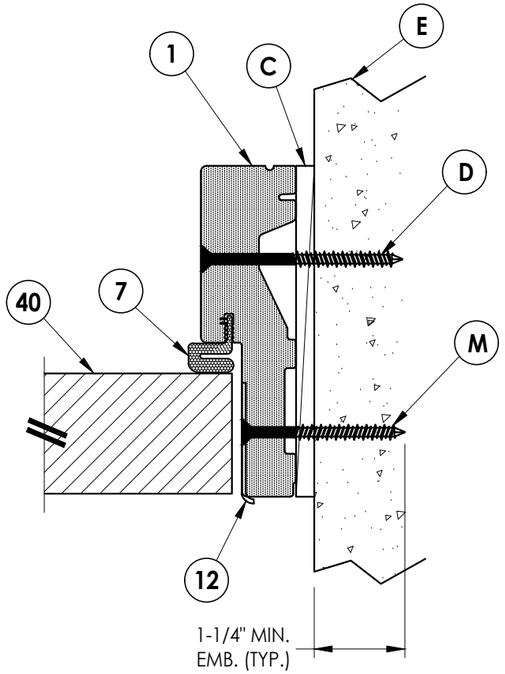
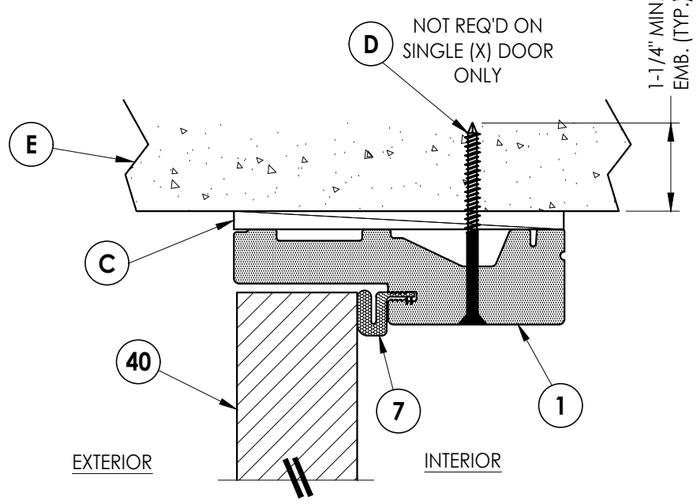


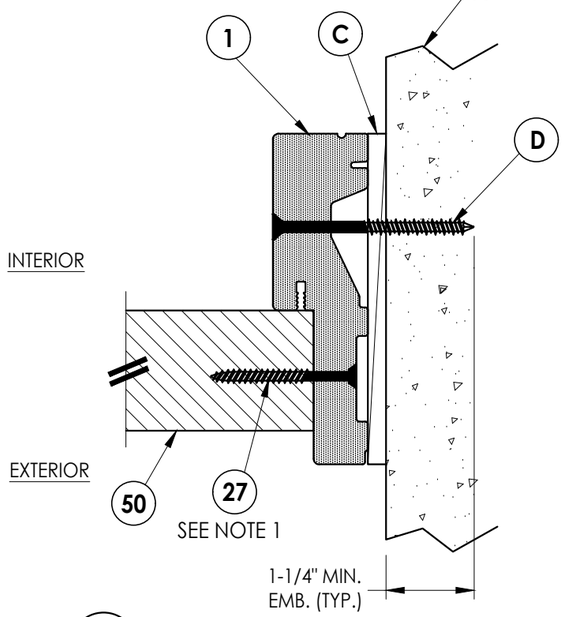
1/8 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry



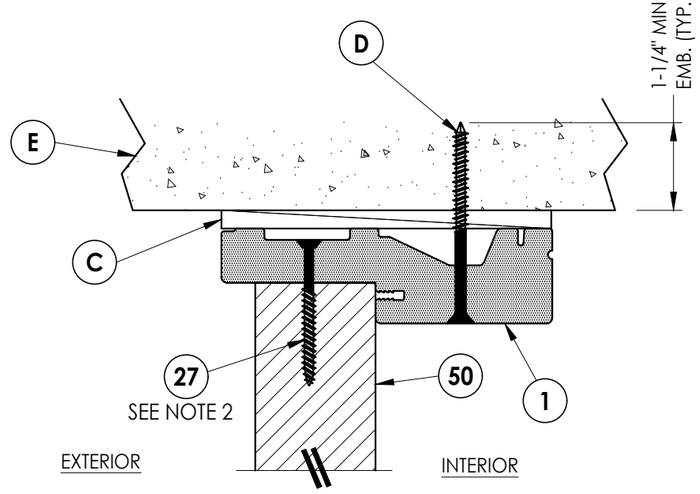
2/8 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry



4/8 **VERTICAL CROSS SECTION**
Shown Direct to Masonry



3/8 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry



5/8 **VERTICAL CROSS SECTION**
Shown Direct to Masonry

Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 10" from each end (2 screws total along head & 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: *TRINITY FIBERGLASS PATIO DOOR "Impact"*

PART OR ASSEMBLY: *HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)*

NO.	DATE	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC	LFS

REVISIONS

DATE: 6/13/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-37184.3
SHEET 8 OF 12

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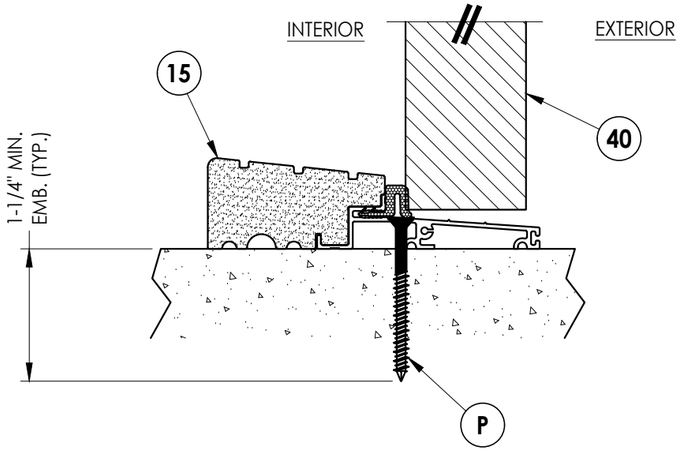
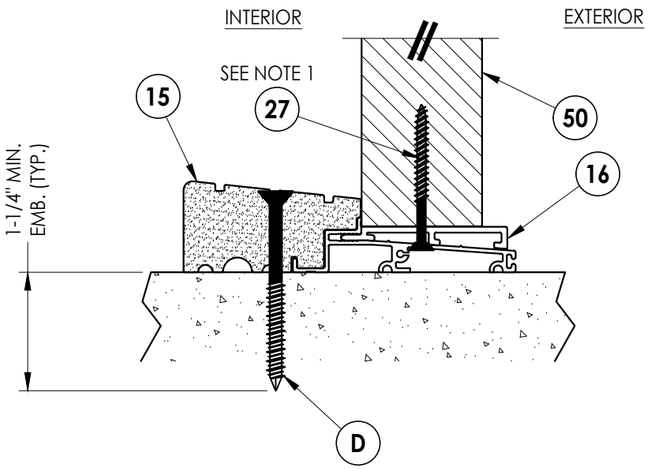
Notes:
1. Sidelite assembly screws located 10" from each end (2 screws total along head & sill).



1/9 VERTICAL CROSS SECTION



2/9 VERTICAL CROSS SECTION

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

PRODUCT: *TRINITY FIBERGLASS PATIO DOOR "Impact"*

PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS (THRESHOLDS)*

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC	LFS

DATE: 6/13/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-37184.3
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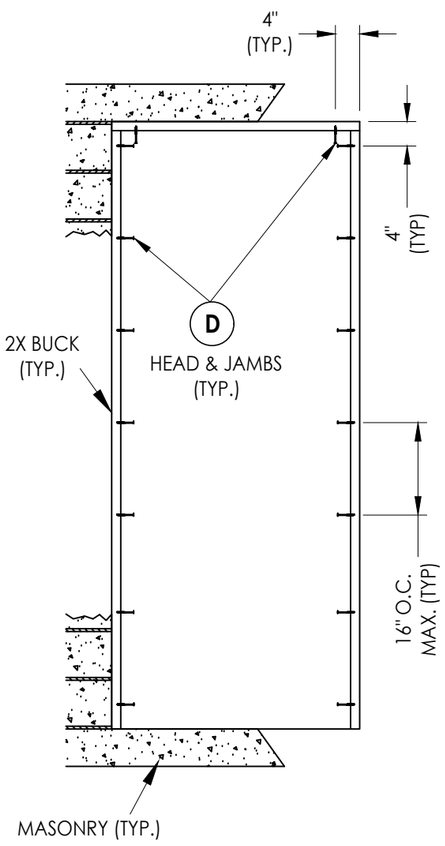

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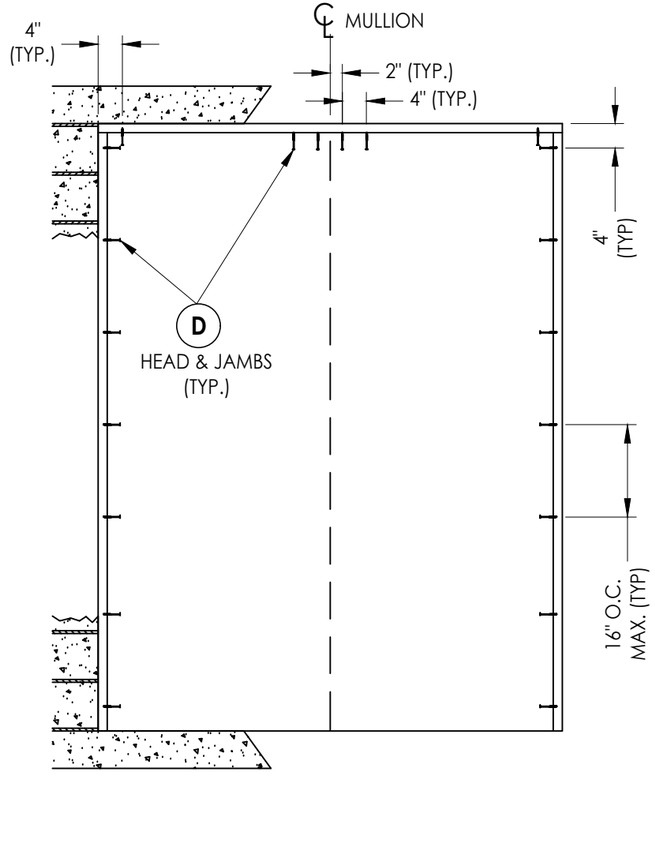

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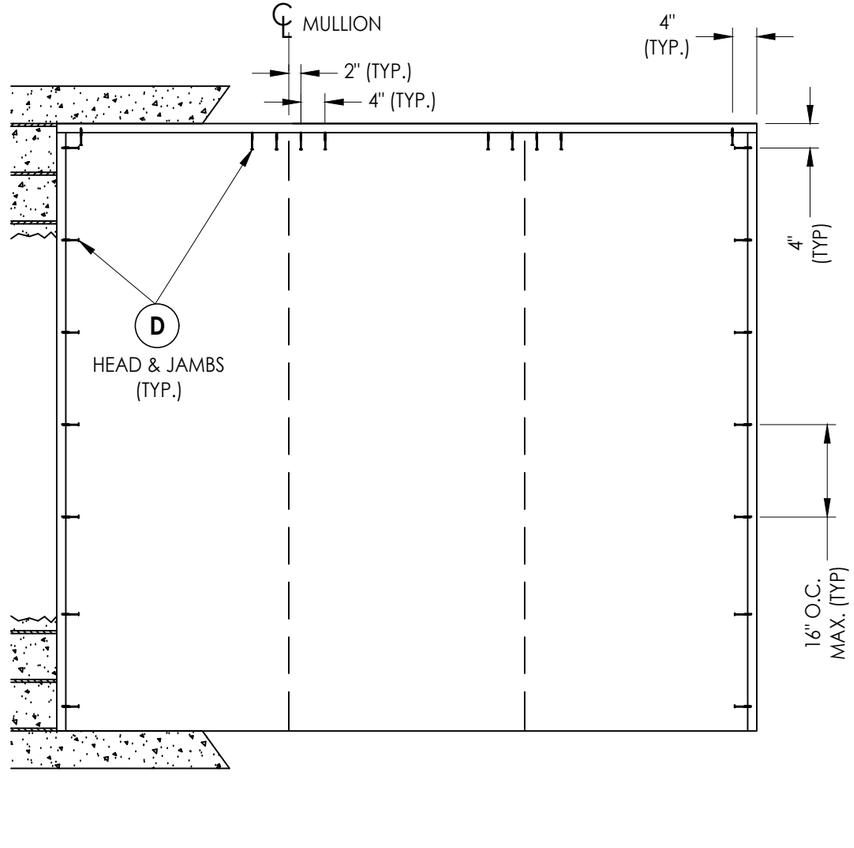

OXO, OOX, XOO

2X BUCK ANCHORING

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

PRODUCT: *TRINITY FIBERGLASS PATIO DOOR "Impact"*

PART OR ASSEMBLY: *BUCK ANCHORING*

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	8/01/23	UPDATE TO 8TH ED. (2023) FBC	LFS

DATE: 6/13/23
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-37184.3
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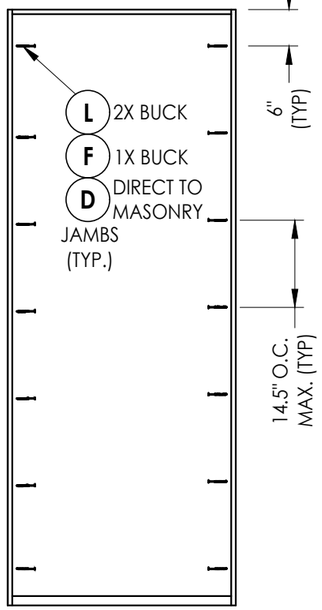

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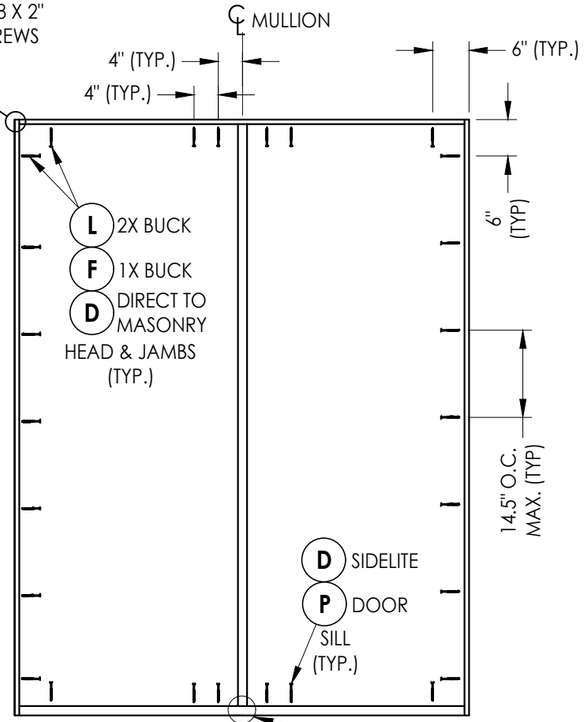

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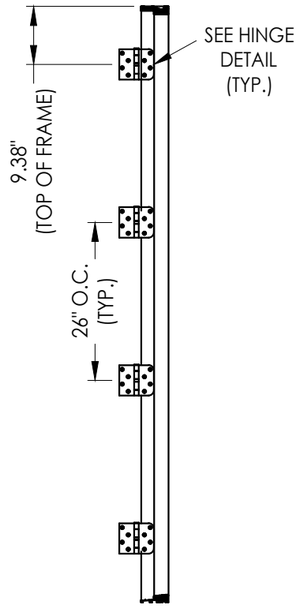
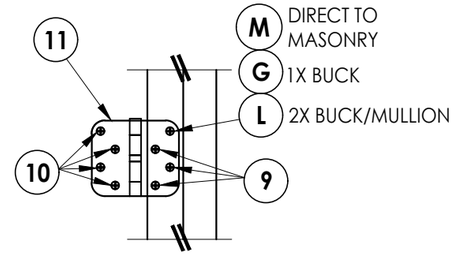
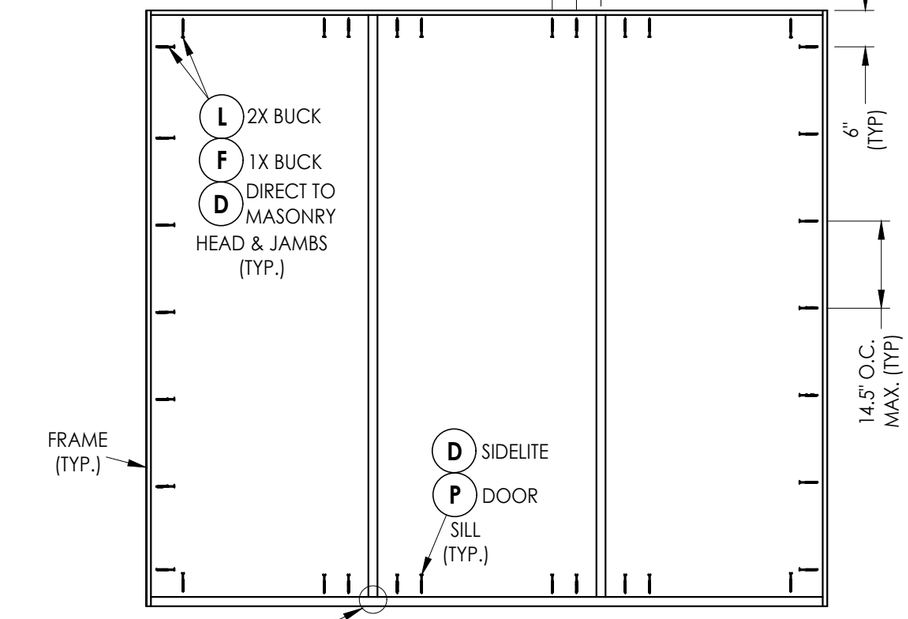


HINGE JAMB



HINGE DETAIL



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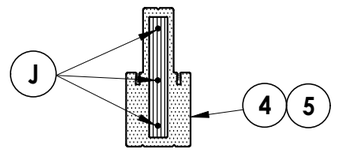
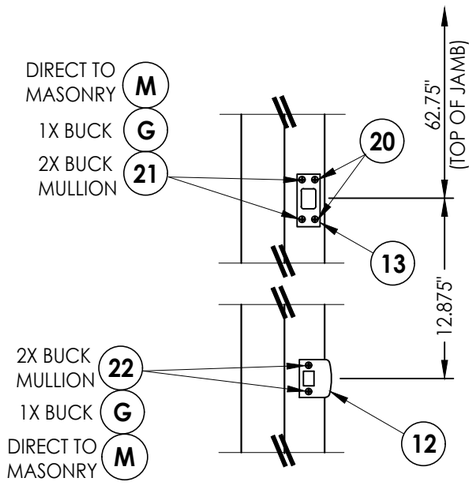


MULLION END DETAIL
@ HEAD & SILL



LATCH & DEADBOLT DETAILS
KWIKSET LOCKS

FRAME ANCHORING

HARDWARE DETAILS

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT: TRINITY FIBERGLASS PATIO DOOR "Impact"

PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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DATE: 6/13/23
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DRAWING NO.: FL-37184.3
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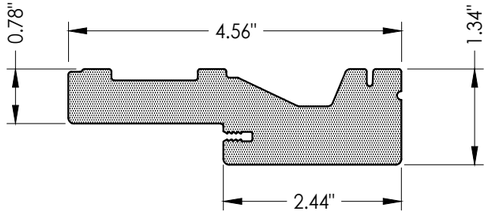
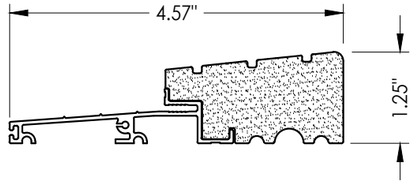
BILL OF MATERIALS

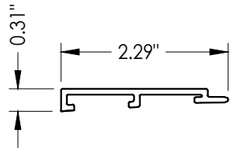
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" PFH DeWALT OR ITW 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	PVC JAMB	COMP
4	2.125" MULLION (STANDARD)	PVC/LVL
5	2.625" MULLION (FAT BOY)	PVC/LVL
7	WEATHERSTRIP	FOAM
9	#9 X 3/4" PFH WOOD SCREW	STEEL
10	#9 X 1" PFH WOOD SCREW	STEEL
11	4" X 4" HINGE	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
15	OUTSWING THRESHOLD	ALUM/COMP
16	OUTSWING 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
27	#10 X 2" PFH SMS	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-



1 PVC JAMB



15 OUTSWING THRESHOLD
High-dam



16 OUTSWING SIDELITE ADAPTER

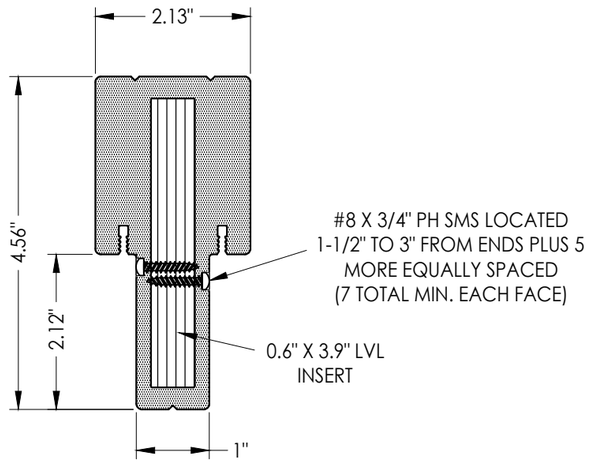
CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *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.*
3. *Concrete anchor table:*

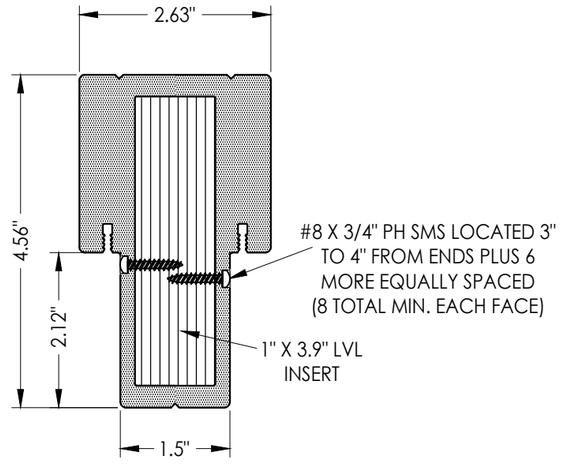
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®+	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

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



4 STANDARD INTEGRAL MULLION



5 FAT BOY INTEGRAL MULLION

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT: TRINITY FIBERGLASS PATIO DOOR "Impact"

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS	BY
2	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
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