

TRIMMABLE
GLAZED FIBERGLASS DOOR

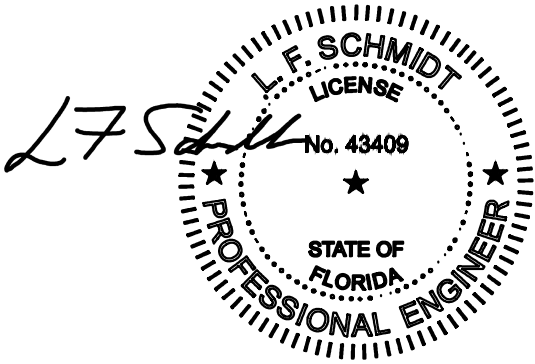
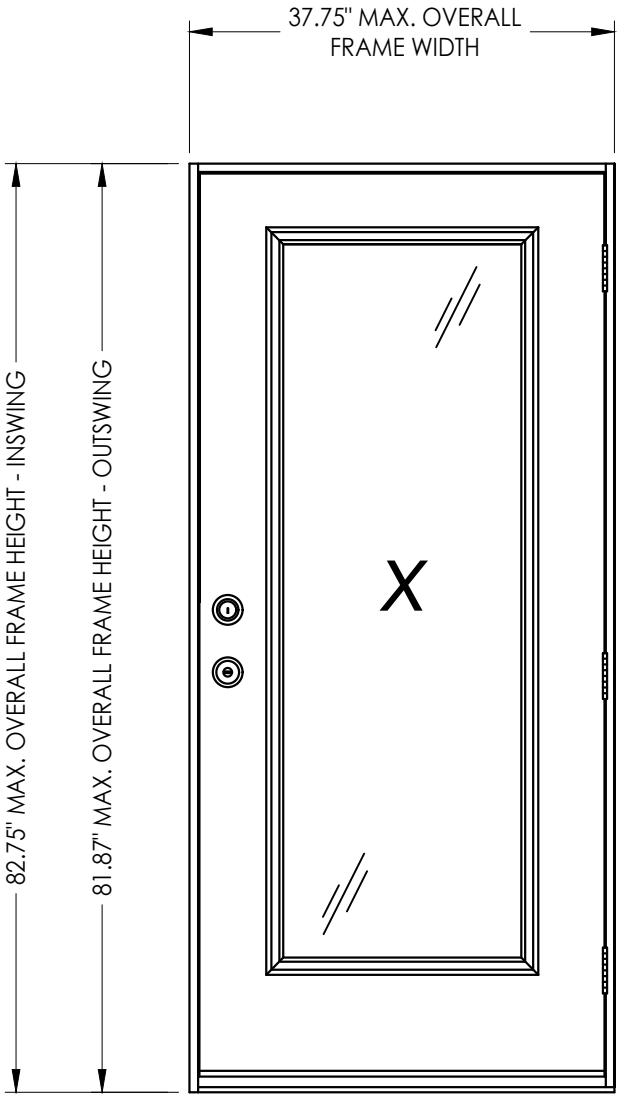
INSWING / OUTSWING
"IMPACT"

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 E1996 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.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring
6	Bill of materials, glazing detail and components

SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
INSWING	37.75" x 82.75"	20.5" x 62.63"	G1	+60.0	-60.0
OUTSWING	37.75" x 81.87"	20.5" x 62.63"	G1	+60.0	-60.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.14 15:25:16 -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
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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

PRODUCT:
GLAZED FIBERGLASS DOOR

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

REVISIONS

NO.	DATE	DESCRIPTION
4	8/14/23	UPDATE TO 8TH ED. (2023) FBC
3	7/23/20	UPDATE TO 7TH ED (2020) FBC
2	7/24/17	UPDATE TO 6TH ED. (2017) FBC
1	04/14/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 02/20/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15219.4

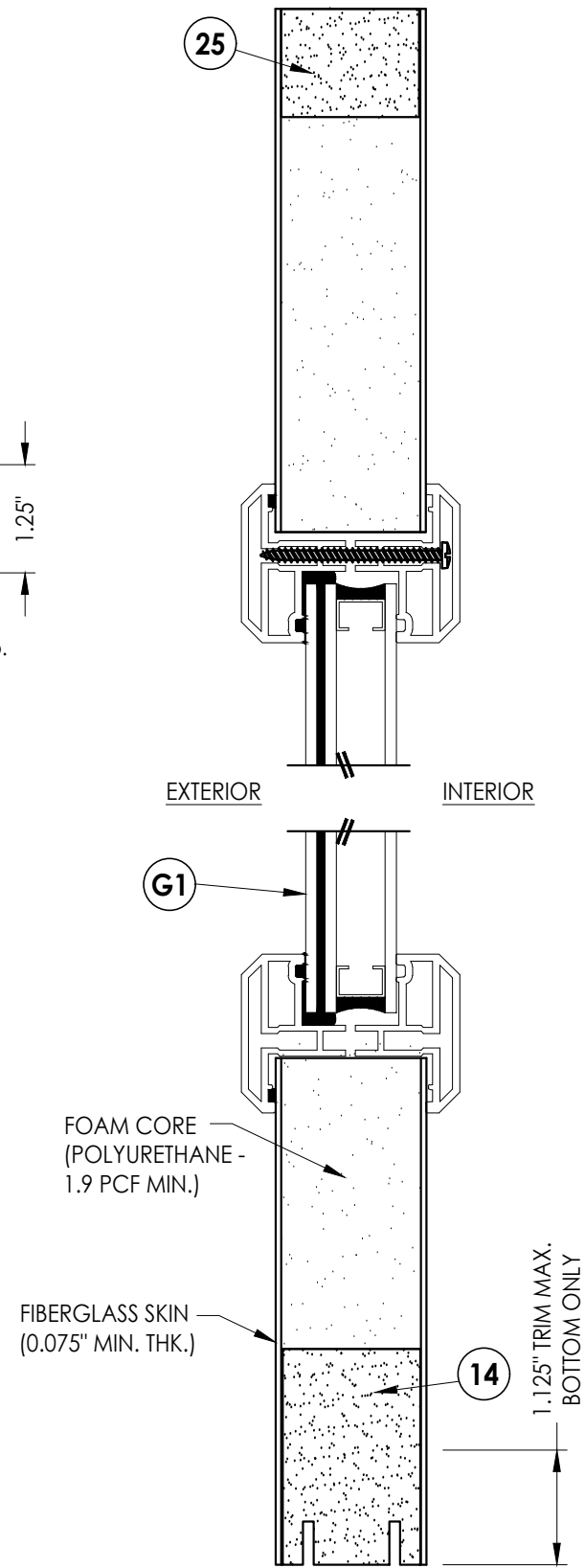
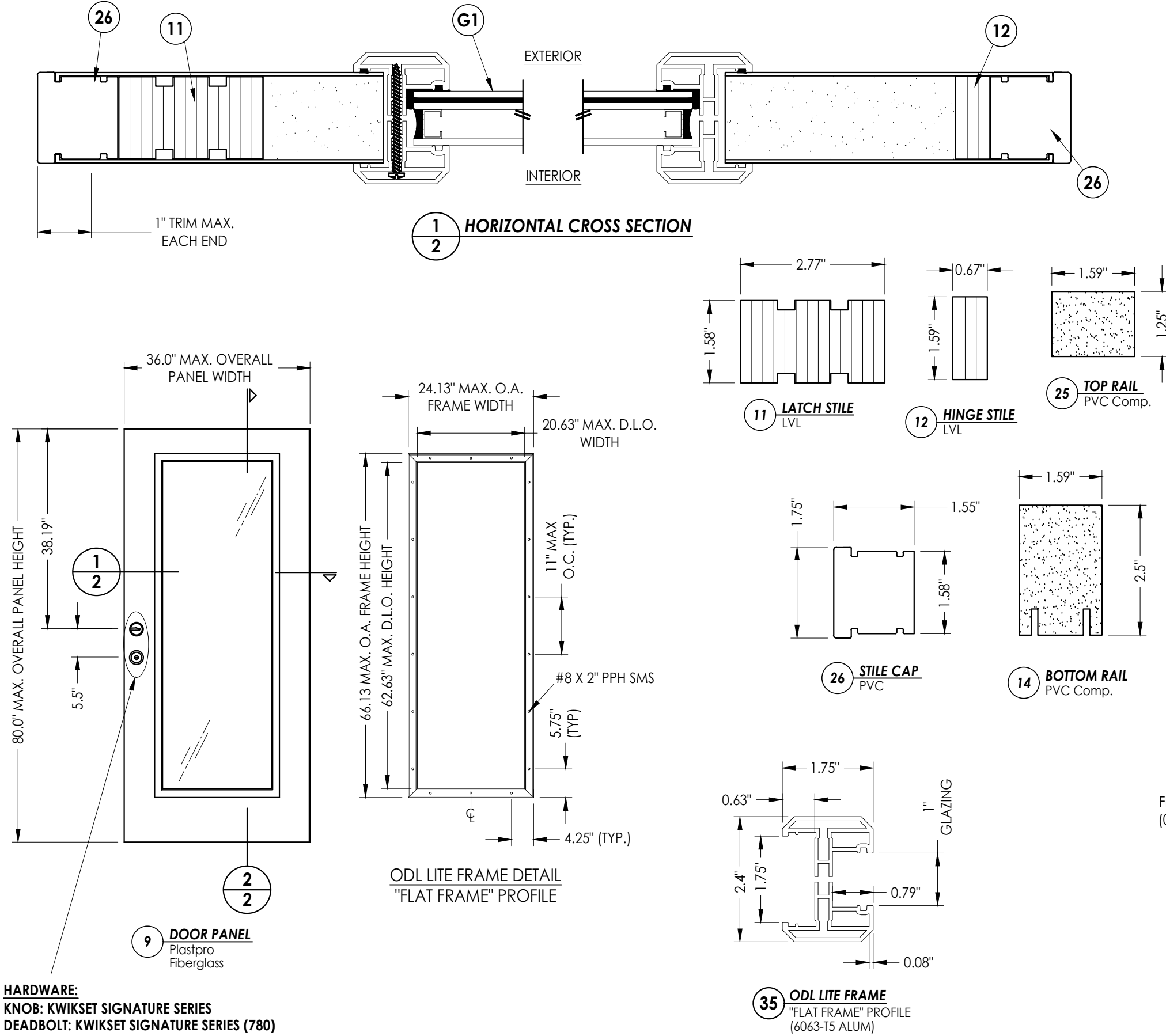
SHEET 1 OF 6

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

RW

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HARDWARE:
KNOB: KWIKSET SIGNATURE SERIES
DEADBOLT: KWIKSET SIGNATURE SERIES (780)

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FBPE Registry No. 9813

PRODUCT:
GLAZED FIBERGLASS DOOR

PART OR ASSEMBLY:

DOOR PANEL DETAILS

NO.	DATE	REVISIONS			
		BY	CHK	APP	DATE
4	8/14/23	LFS	FBC		UPDATE TO 8TH ED. (2023)
3	7/23/20	LFS	FBC		UPDATE TO 7TH ED. (2020)
2	7/24/17	JK	FBC		UPDATE TO 6TH ED. (2017)
1	04/14/15	JK	FBC		UPDATE TO 5TH ED. (2014)

DATE: 02/20/12

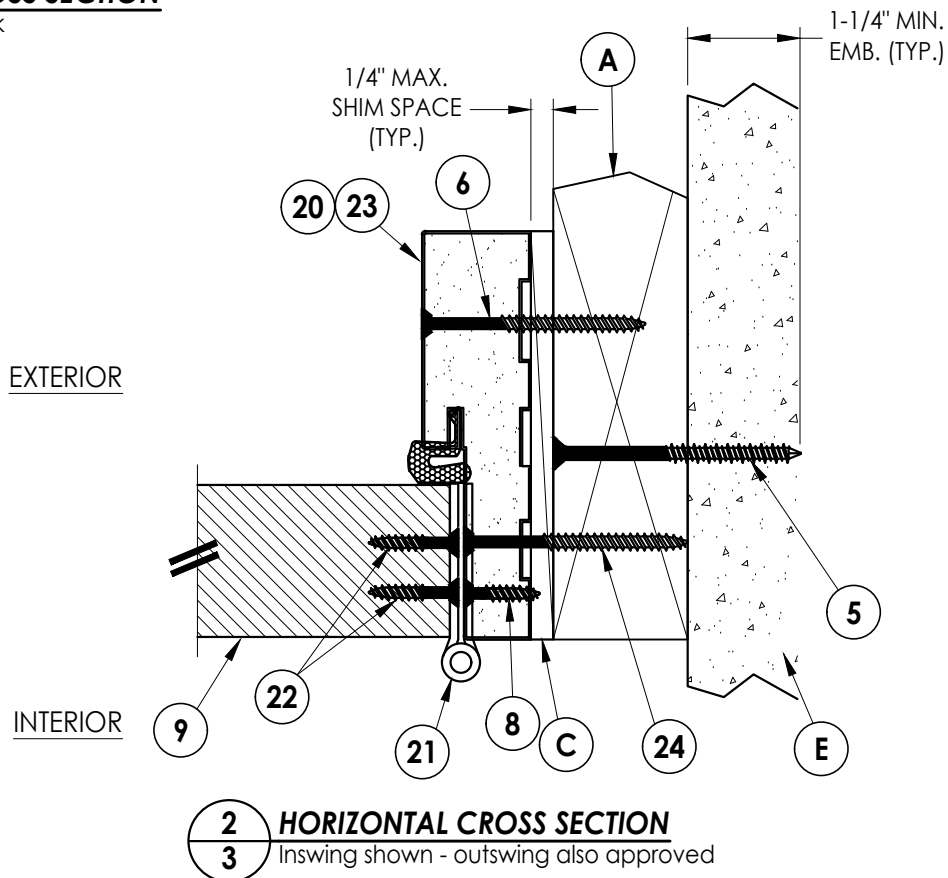
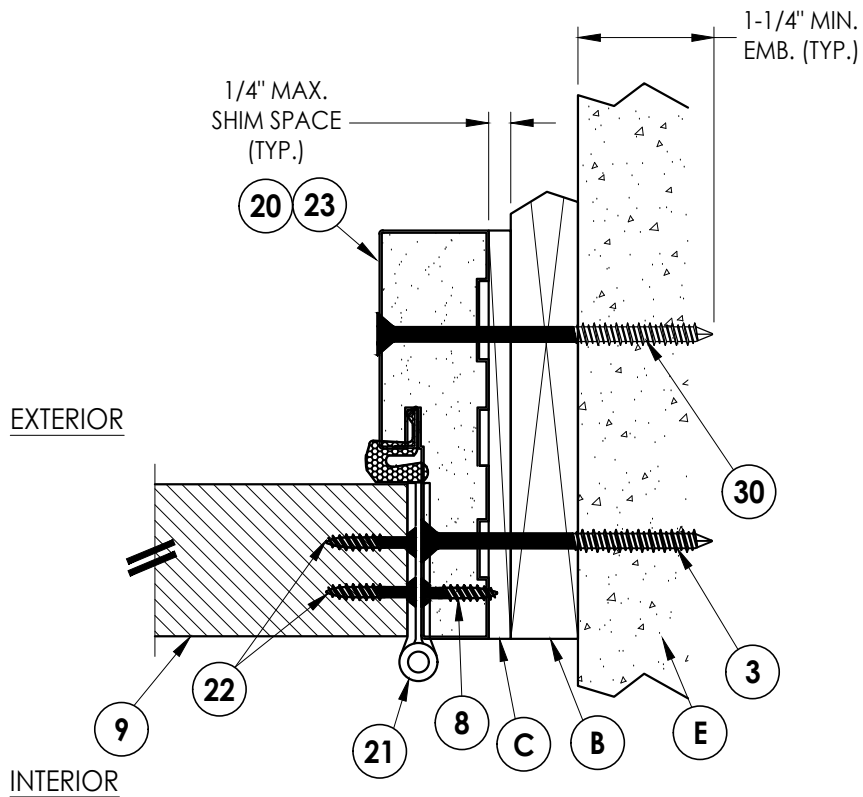
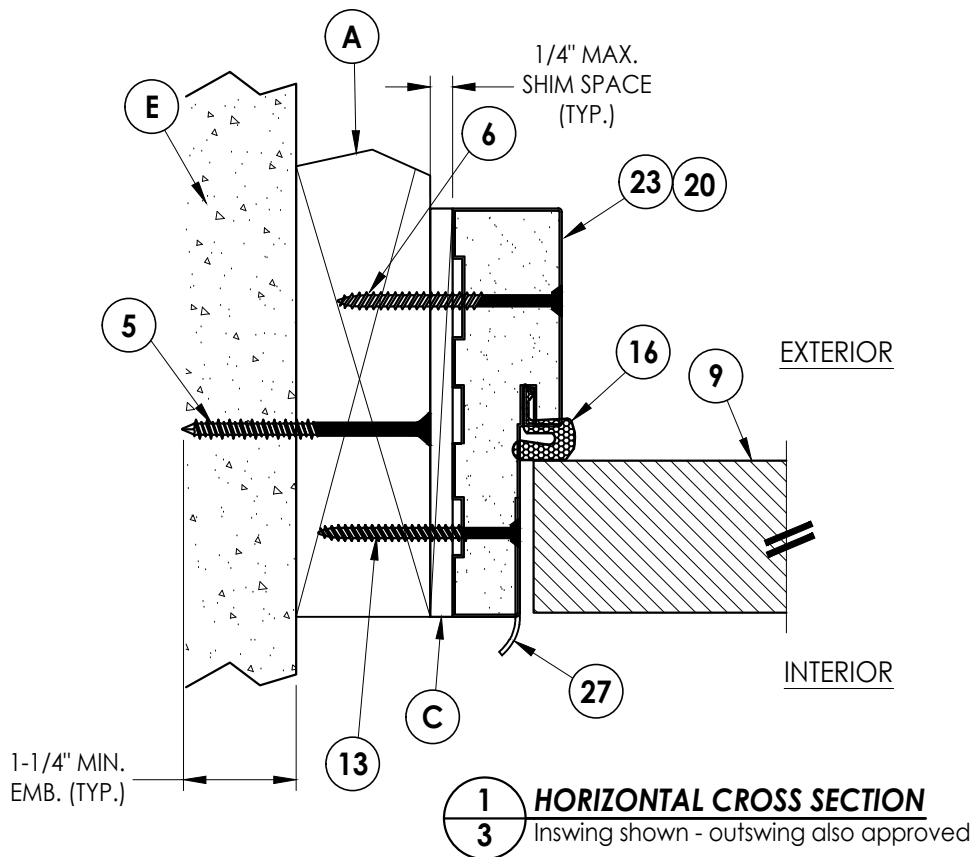
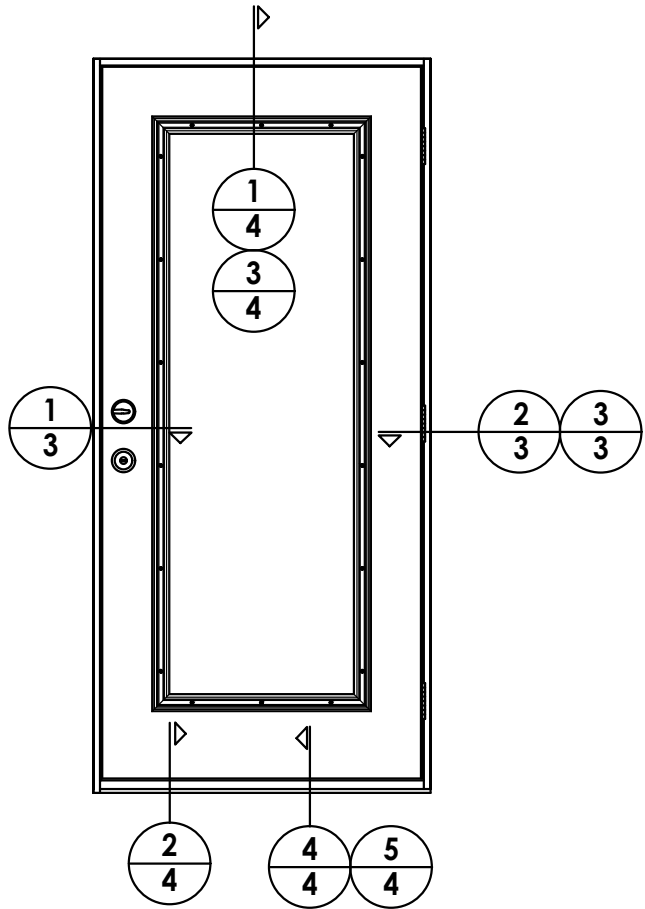
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CHK. BY: LFS

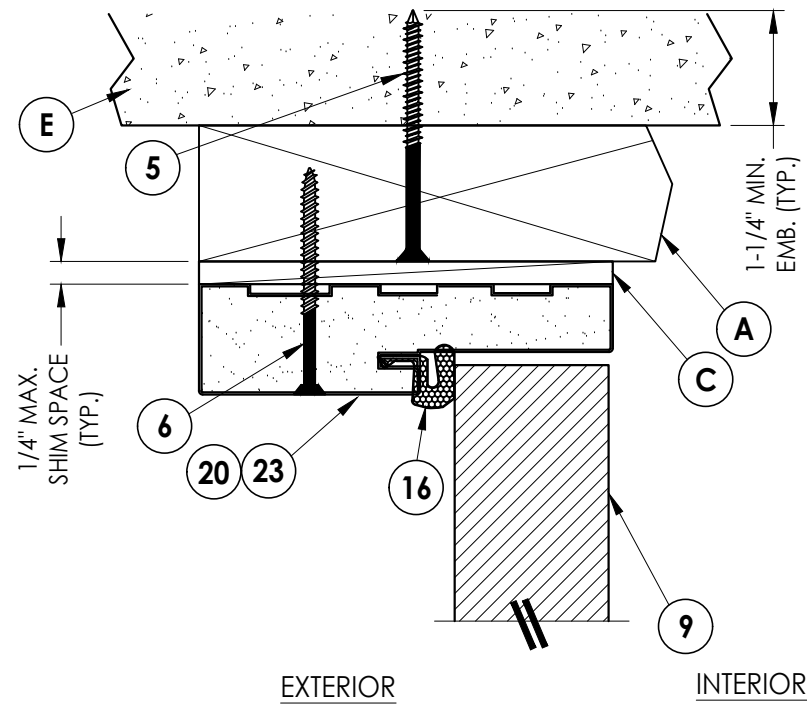
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FL-15219.4

SHEET 2 OF 6

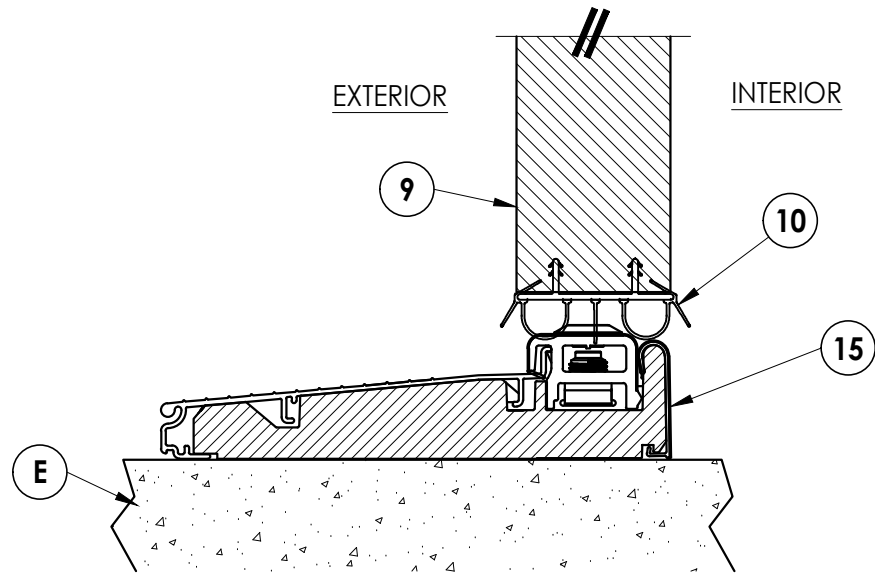


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PRODUCT:		GLAZED FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
4	8/14/23	UPDATE TO 8TH ED. (2023)	FBC
3	7/23/20	UPDATE TO 7TH ED (2020)	FBC
2	7/24/17	UPDATE TO 6TH ED. (2017)	FBC
1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC
NO.	DATE		BY
REVISIONS			
DATE: 02/20/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15219.4			
SHEET 3 OF 6			

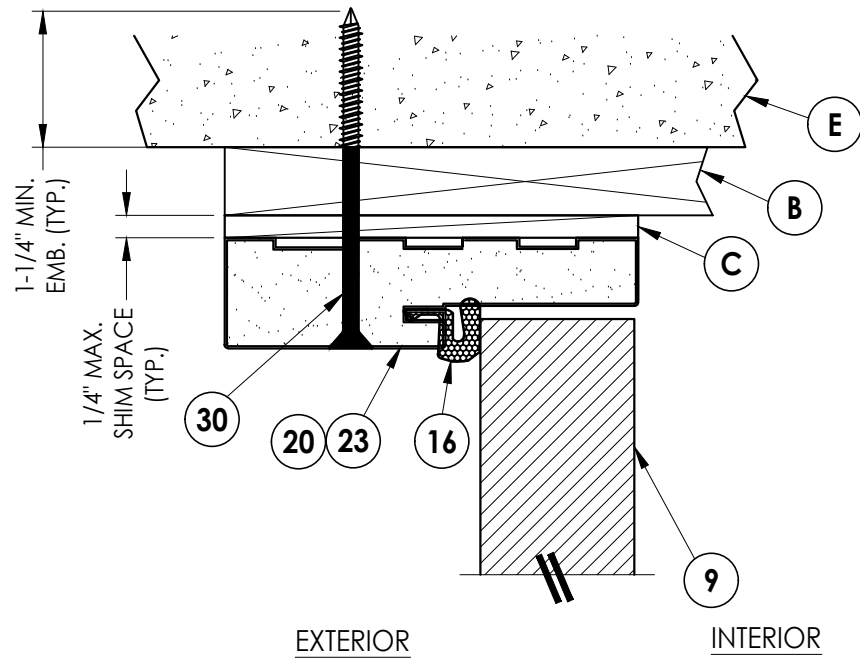
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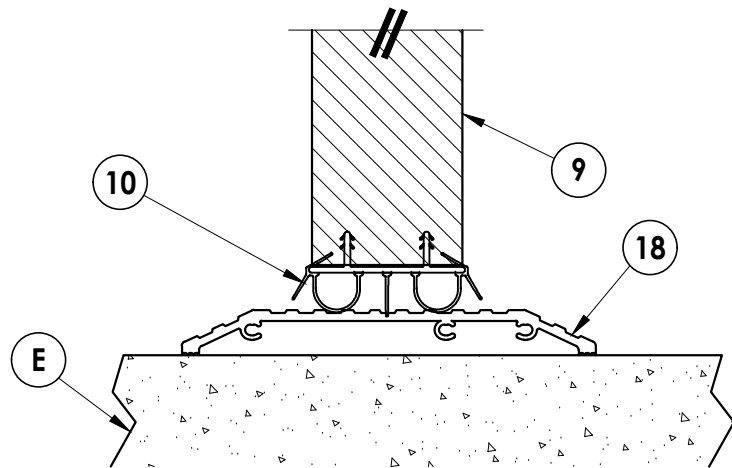
1
4 **VERTICAL CROSS SECTION**
Inswing shown - outswing also approved



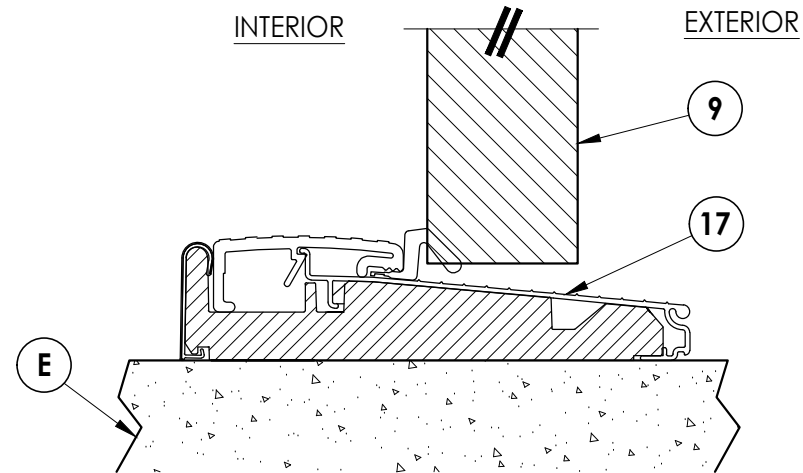
2
4 **VERTICAL CROSS SECTION**
Inswing threshold



3
4 **VERTICAL CROSS SECTION**
Shown w/1x sub-buck

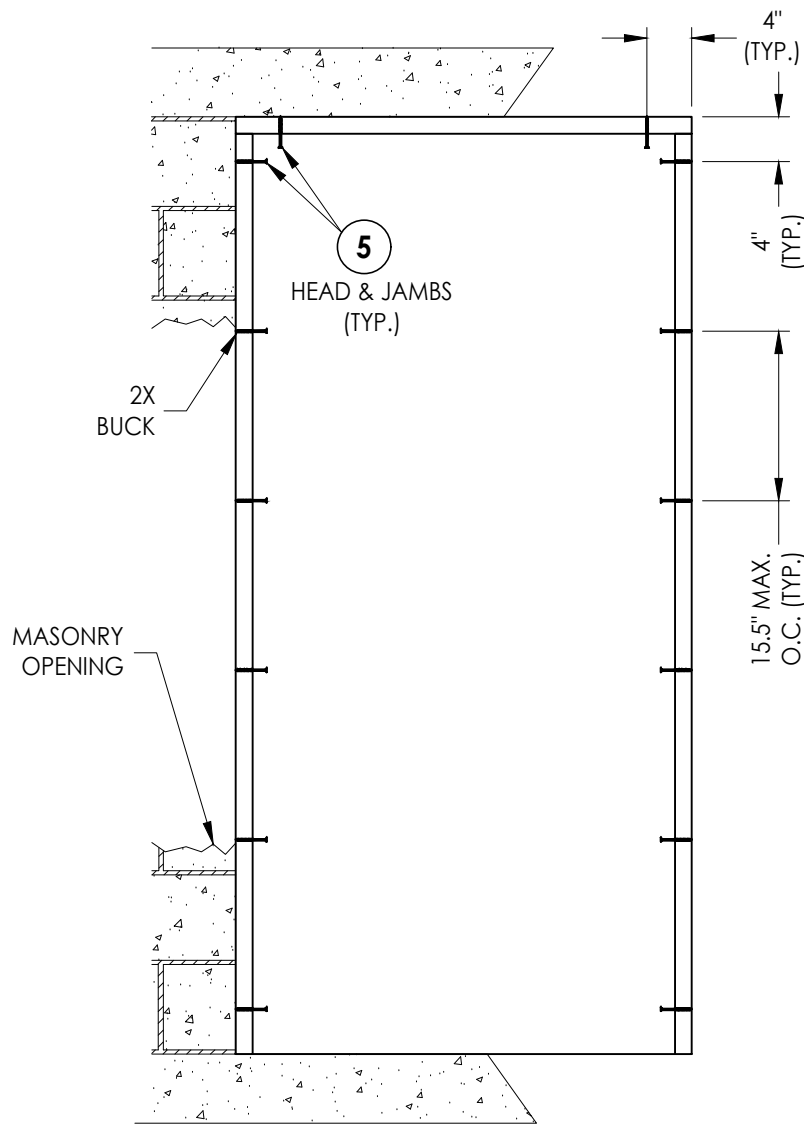


5
4 **VERTICAL CROSS SECTION**
Shown w/ ADA threshold

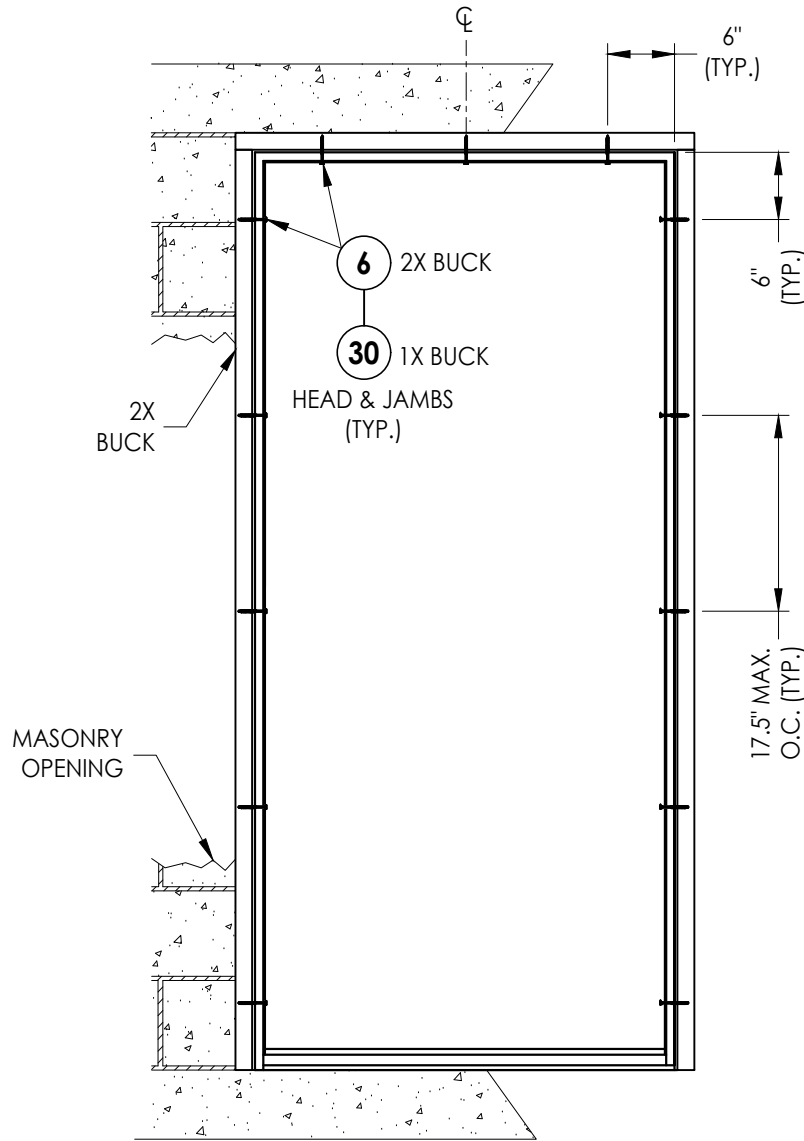


4
4 **VERTICAL CROSS SECTION**
Outswing threshold

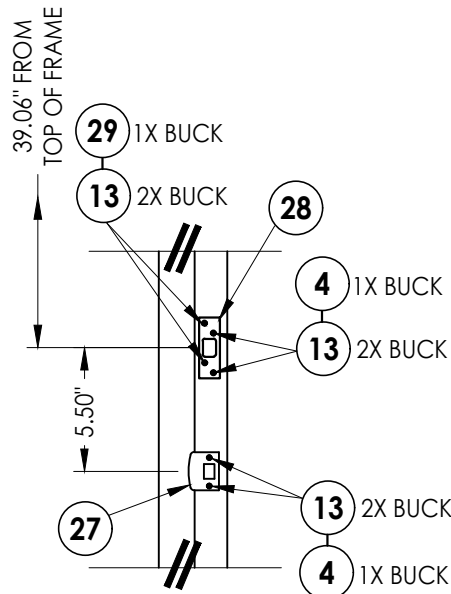
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PRODUCT:		GLAZED FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
4	8/14/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/23/20	UPDATE TO 7TH ED (2020)	FBC LFS
2	7/24/17	UPDATE TO 6TH ED. (2017)	FBC JK
1	04/14/15	UPDATE TO 5TH ED. (2014)	FBC JK
NO.	DATE		BY
REVISIONS			
DATE: 02/20/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15219.4			
SHEET 4 OF 6			



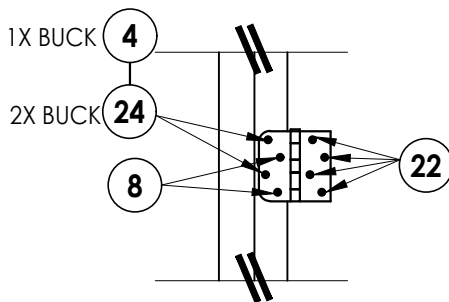
BUCK ANCHORING



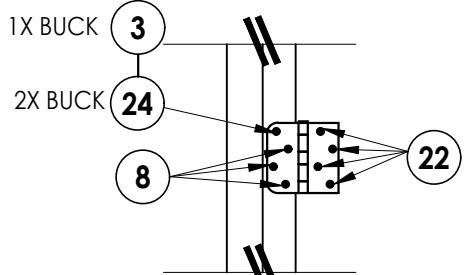
FRAME ANCHORING



LATCH & DEADBOLT DETAIL



HINGE DETAIL 1
Hinge located @ 6-7/16" from top of door slab to top of hinge



HINGE DETAIL 2
Hinge (2) located @ 37-5/8" and 68-13/16" from top of door slab to top of hinge

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 TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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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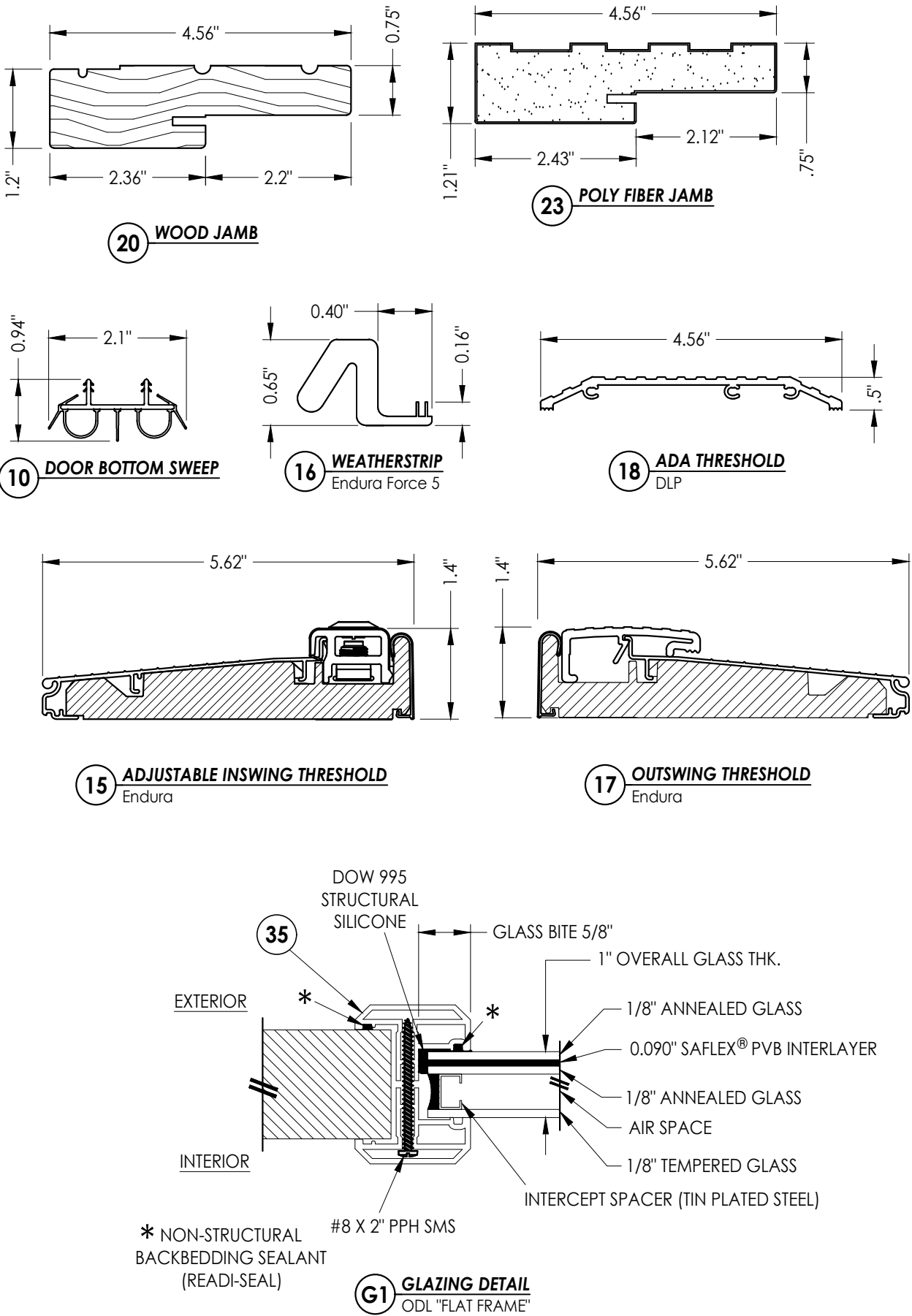
PRODUCT: GLAZED FIBERGLASS DOOR

PART OR ASSEMBLY: BUCK AND FRAME ANCHORING

NO.	DATE	BY	REVISIONS
4	8/14/23	JK	UPDATE TO 8TH ED. (2023) FBC
3	7/23/20	JK	UPDATE TO 7TH ED. (2020) FBC
2	7/24/17	JK	UPDATE TO 6TH ED. (2017) FBC
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15219.4
SHEET 5 OF 6

BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
A	2X BUCK SG >= 0.55	WOOD
B	1X BUCK	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
3	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
4	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
5	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
6	#10 X 2-1/2" PFH SCREW (1.15" MIN. EMBEDMENT)	STEEL
7	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
8	#9 x 3/4" PFH WOOD SCREW	STEEL
9	FIBERGLASS DOOR PANEL	FIBERGLASS
10	DOOR BOTTOM SWEEP	VINYL
11	LATCH STILE	LVL
12	HINGE STILE	LVL
13	#9 x 2-1/4" PFH SCREW	STEEL
14	BOTTOM RAIL	PVC COMP
15	INSWING ADJUSTABLE THRESHOLD	ALUM/WOOD
16	WEATHERSTRIP	FOAM
17	OUTSWING THRESHOLD	STEEL
21	4" x 4" BUTT HINGE	STEEL
22	#9 x 1" PFH WOOD SCREW	STEEL
23	POLY FIBER JAMB	COMP./VINYL
24	#10 X 2-1/2" PFH WOOD SCREW	STEEL
25	TOP RAIL	PVC COMP
26	STILE CAP	PVC
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
30	1/4" x 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
35	ODL ALUMINUM LITE FRAME	ALUM



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PRODUCT: GLAZED FIBERGLASS DOOR				PART OR ASSEMBLY: BILL OF MATERIALS, GLAZING DETAIL AND COMPONENTS			
4	8/14/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
3	7/23/20	UPDATE TO 7TH ED (2020)	FBC	LFS			
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NO.	DATE			BY			
				REVISIONS			
DATE: 02/20/12							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-15219.4							
SHEET 6 OF 6							