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THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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

INSWING/OUTSWING "NON-IMPACT"

Technical drawings of two door styles with dimensions:

- Left Door Style:**
 - Overall Frame Width: 37.5" MAX.
 - Frame Height (Inswing): 81.5" MAX. O.A.
 - Frame Height (Outswing): 80.75" MAX. O.A.
 - Design: Single door with six rectangular panels (two small at the top, four larger below). A handle and lock are shown on the right side.
- Right Door Style:**
 - 74" MAX. OVERALL FRAME WIDTH
 - Design: Double door with six rectangular panels on each leaf (two small at the top, four larger below). A handle and lock are shown on the right leaf.

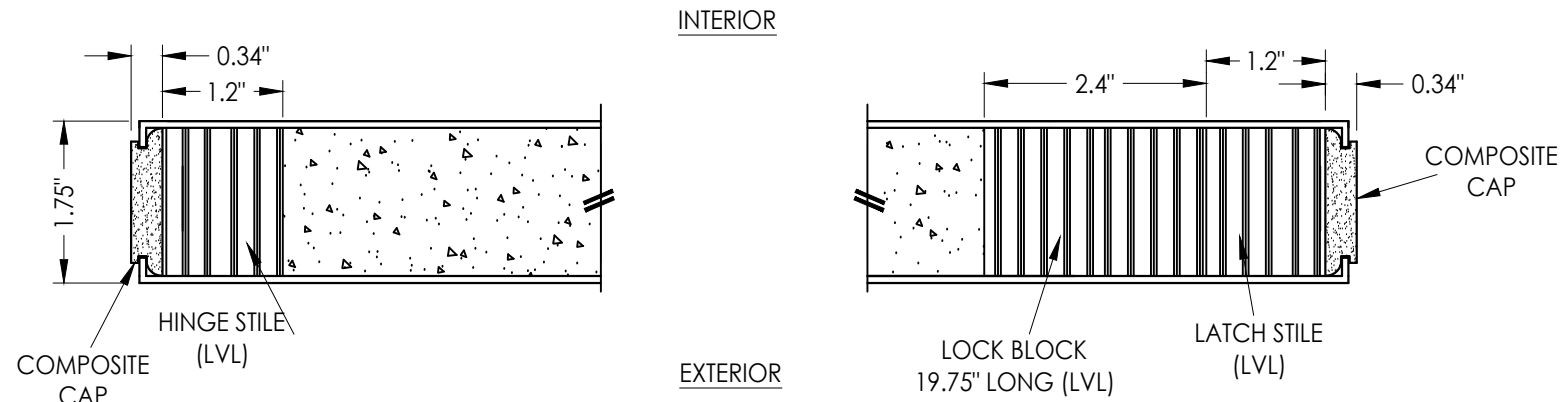
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 of the FBC.
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	6	Horizontal & Vertical Cross Sections (Direct to Masonry)
2	Door Panel Details	7	Vertical Cross Sections
3	Elevations	8	Buck Anchoring
4	Horizontal & Vertical Cross Sections (2X Buck)	9	Frame Anchoring & Hardware Details
5	Horizontal & Vertical Cross Sections (1X Buck)	10	Bill of Materials & Components

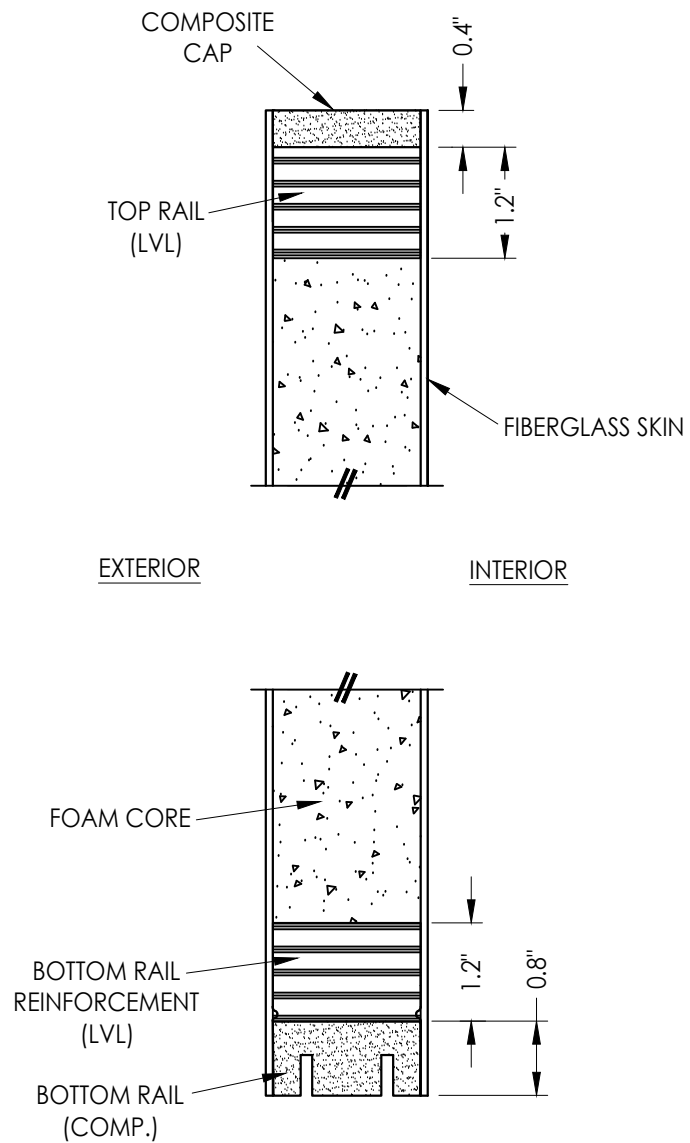
CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.5" x 81.5"	+60.0	-60.0	+60.0	-60.0
XX	74.0" x 81.5"	+60.0	-60.0	+60.0	-60.0

[illegible]

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



1 **HORIZONTAL CROSS SECTION**



2 VERTICAL CROSS SECTION

1	8/02/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
NO.	DATE			BY
REVISIONS				

DATE:	8/10/22
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-41477.5
SHEET	<u>2</u> OF <u>10</u>

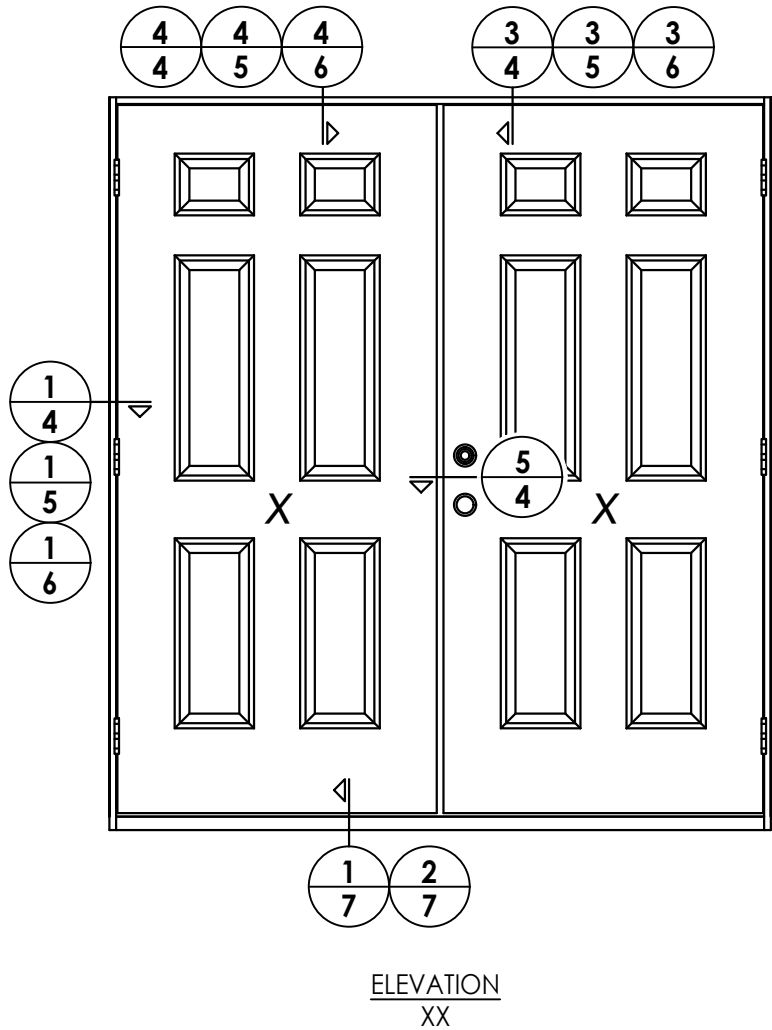
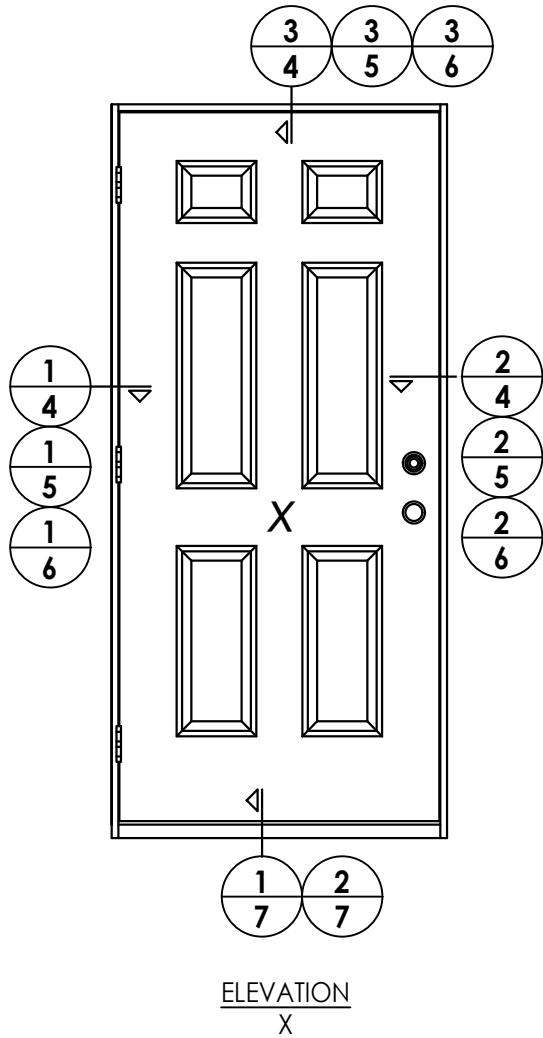
Documents Prepared By:
Lyndon F. Schmidt
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Z:\2023 FBC Drawings\Steves & Sons\FL-41477 R2\FL-41477.5.dwg



DATE: 8/10/22
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-41477.5
SHEET 3 OF 10

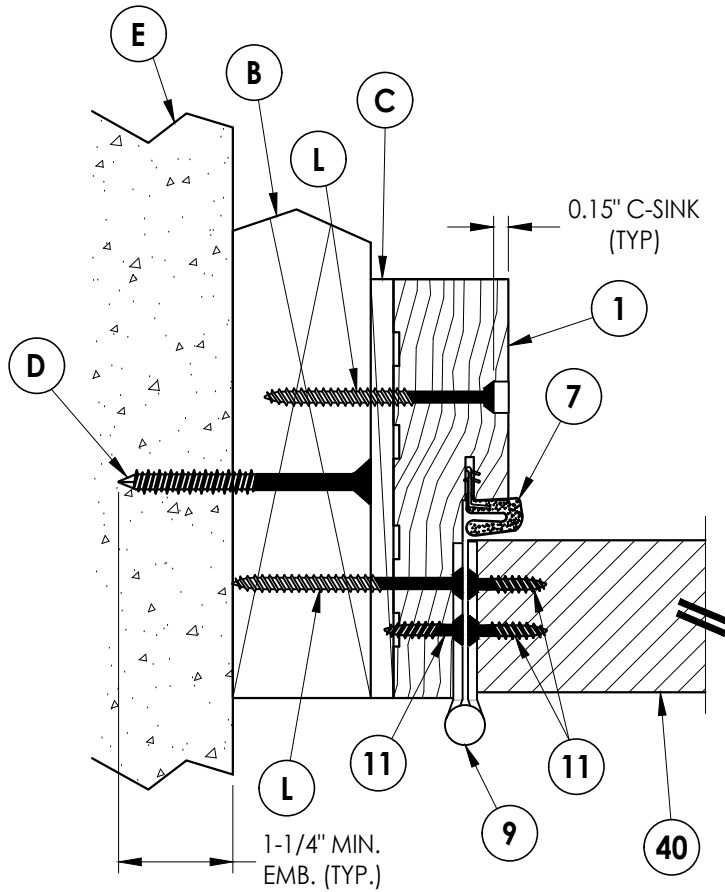
NO	DATE	REVISIONS
1	8/02/23	UPDATE TO 8TH ED. (2023) FBC
		LFS
		BY

PRODUCT:	STEVE'S & SONS FIBERGLASS DOOR
PART OR ASSEMBLY:	ELEVATIONS

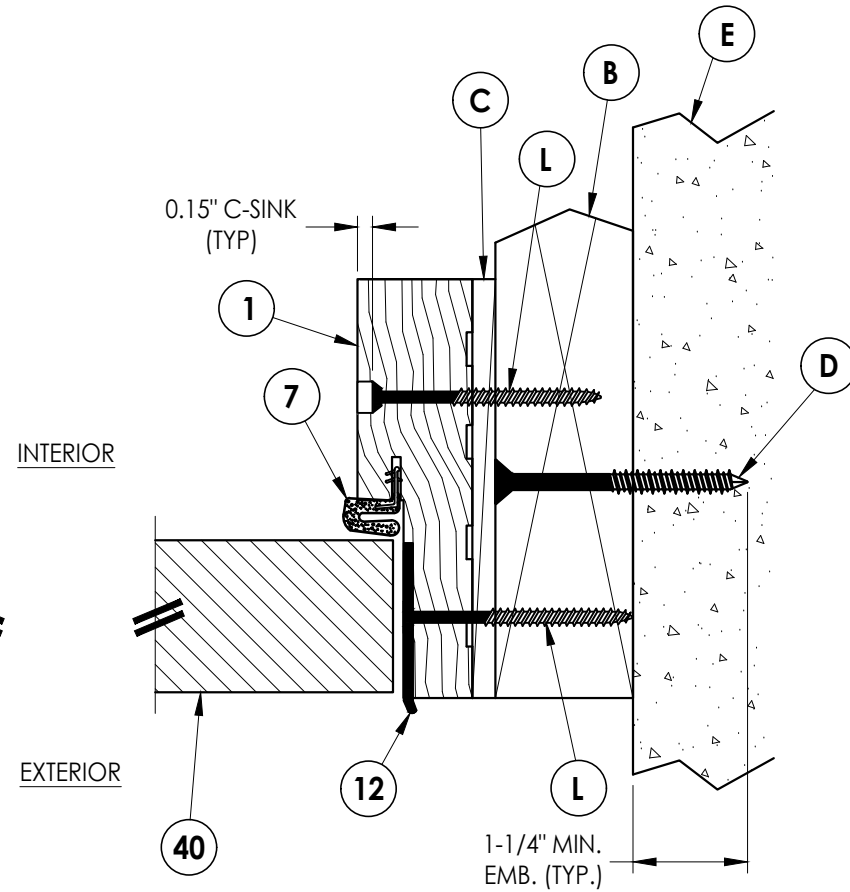
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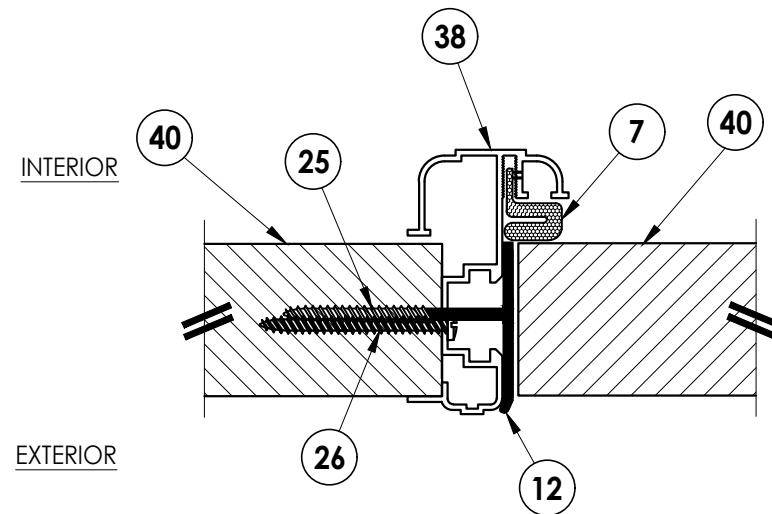
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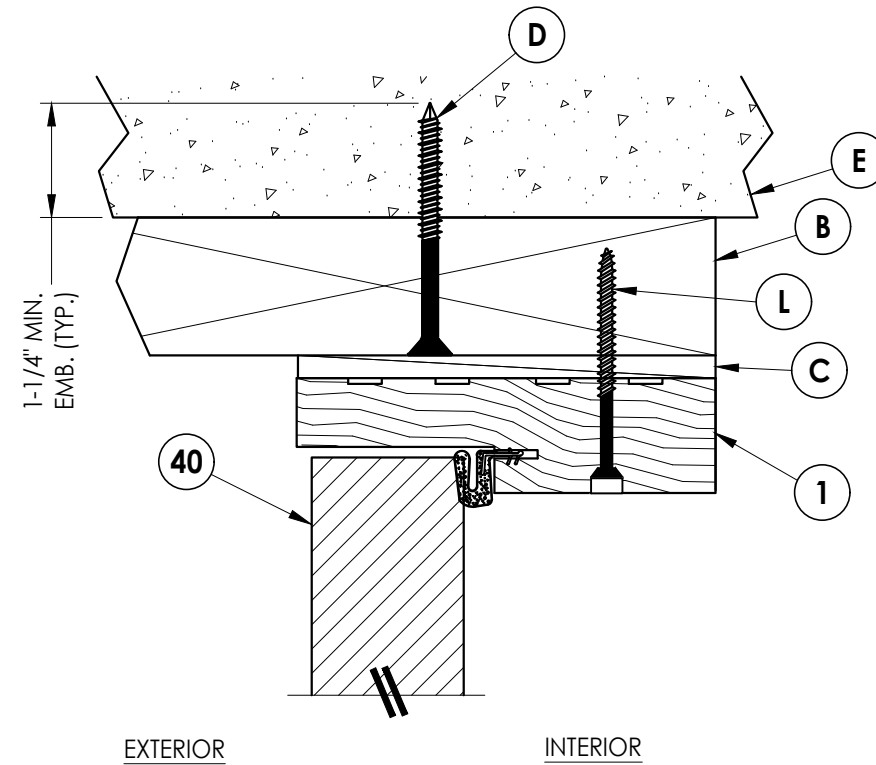
1
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



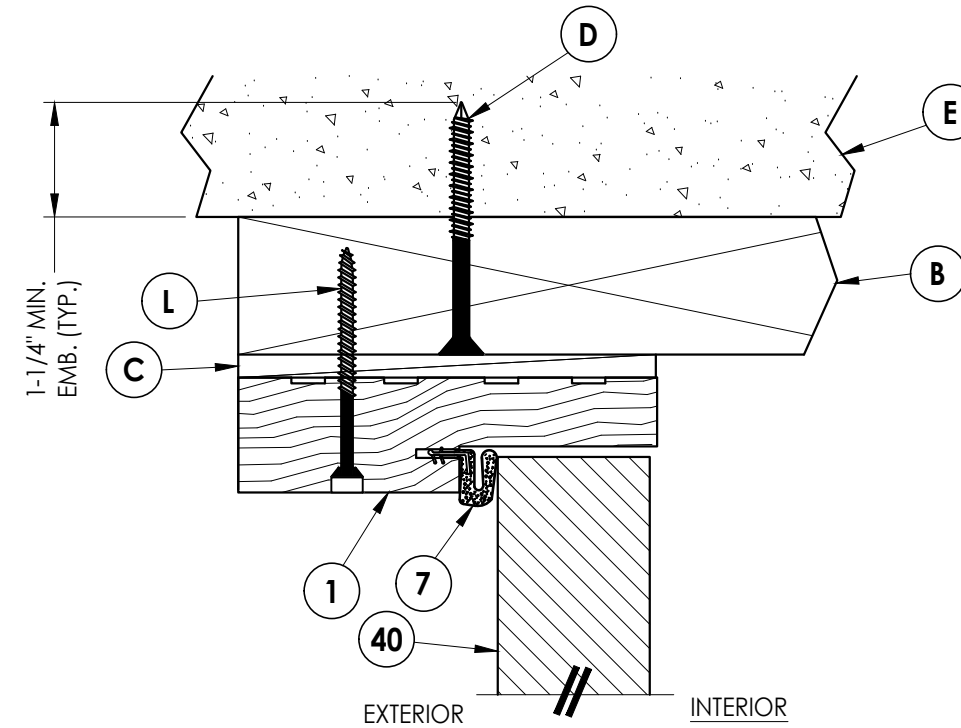
2
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



3
4 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown



4
4 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown

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FBPE Registry No. 9813

PRODUCT:
STEVE'S & SONS
FIBERGLASS DOOR

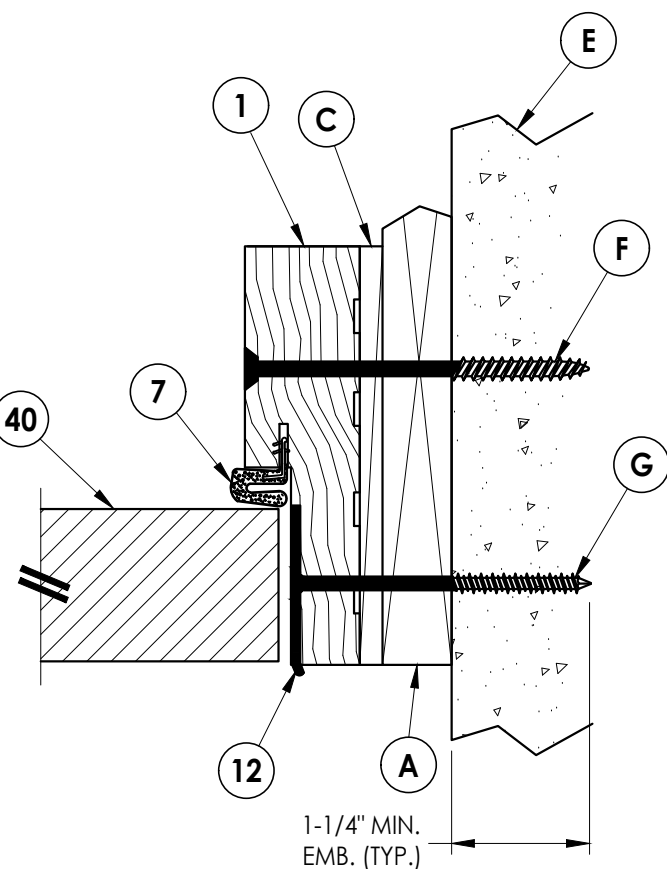
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
1	8/02/23	UPDATE TO 8TH ED. (2023) FBC
		LFS
		BY

DATE: 8/10/22
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-41477.5
SHEET 4 OF 10

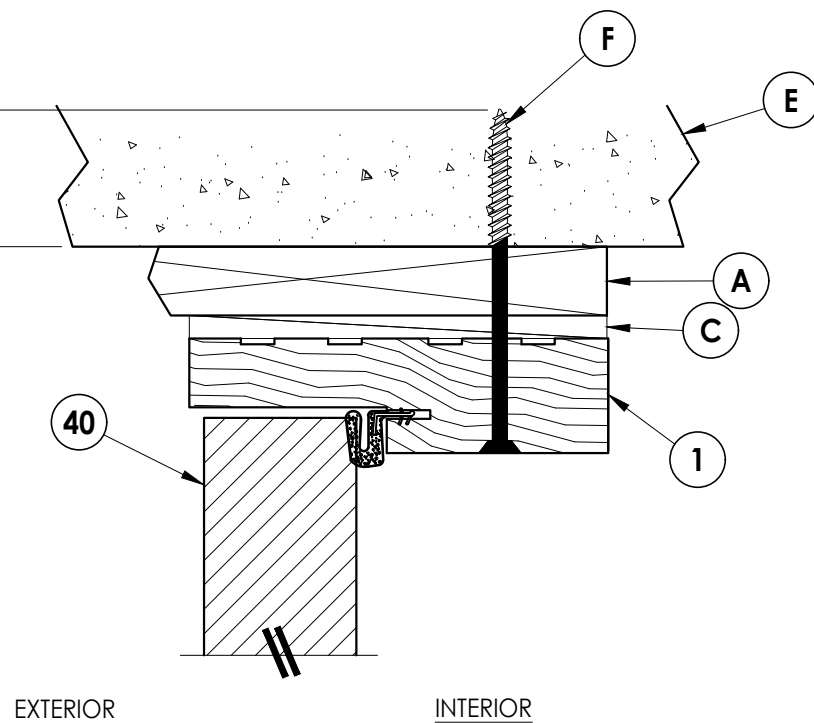
INTERIOR

EXTERIOR

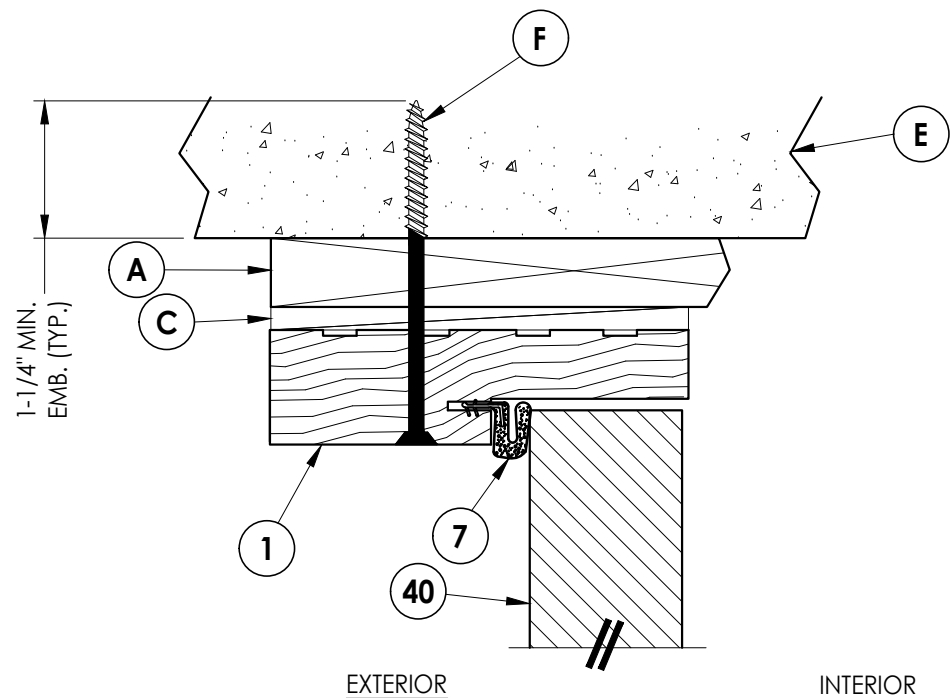


2 HORIZONTAL CROSS SECTION
5 Shown w/ 1X Buck
 Outswing shown (Inswing similar)

1-1/4" MIN.
EMB. (TYP.)



3 **VERTICAL CROSS SECTION**
5 Shown w/ 1X Buck
 Outswing shown



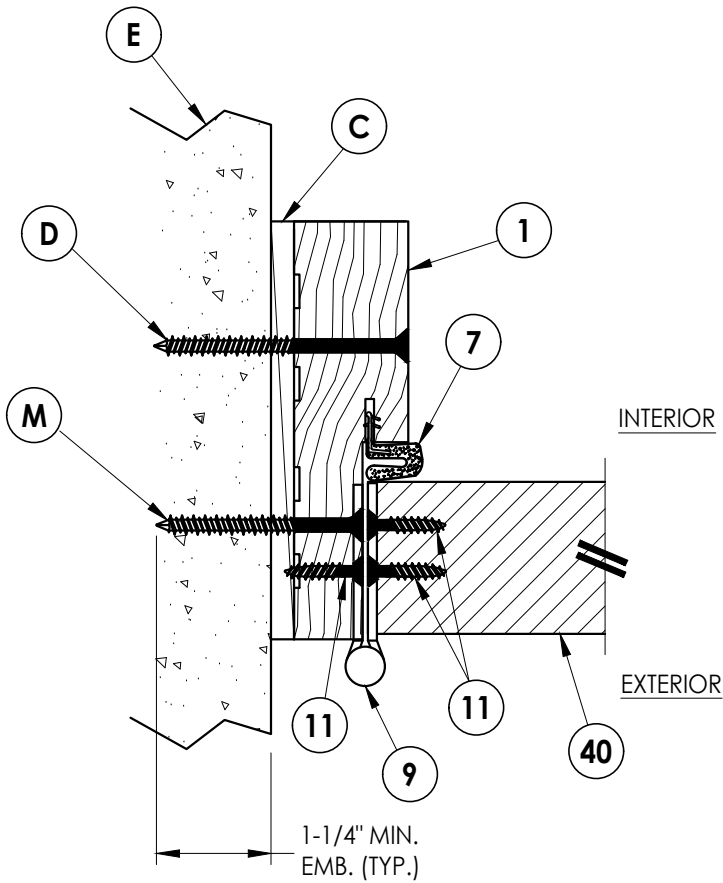
4 VERTICAL CROSS SECTION
5 Shown w/ 1X Buck
Inswing shown

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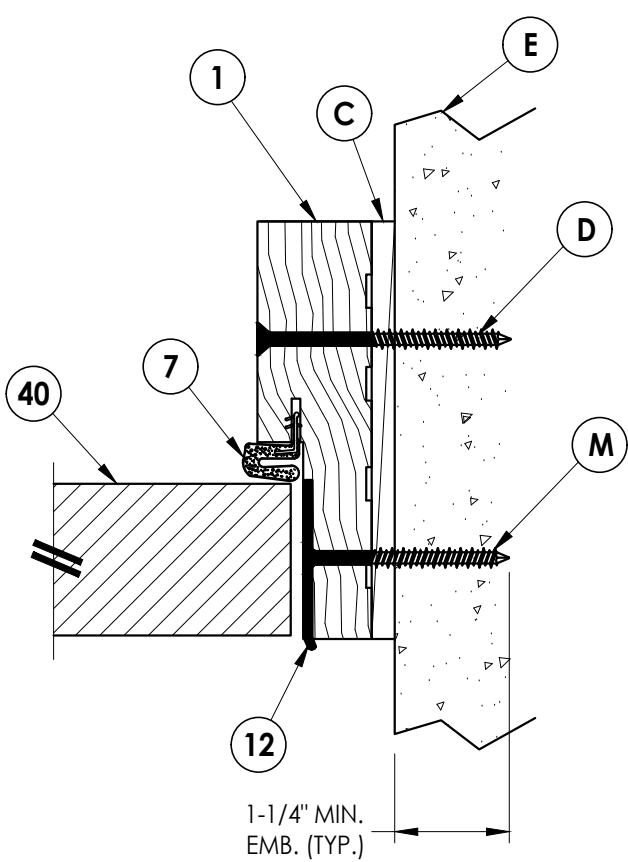
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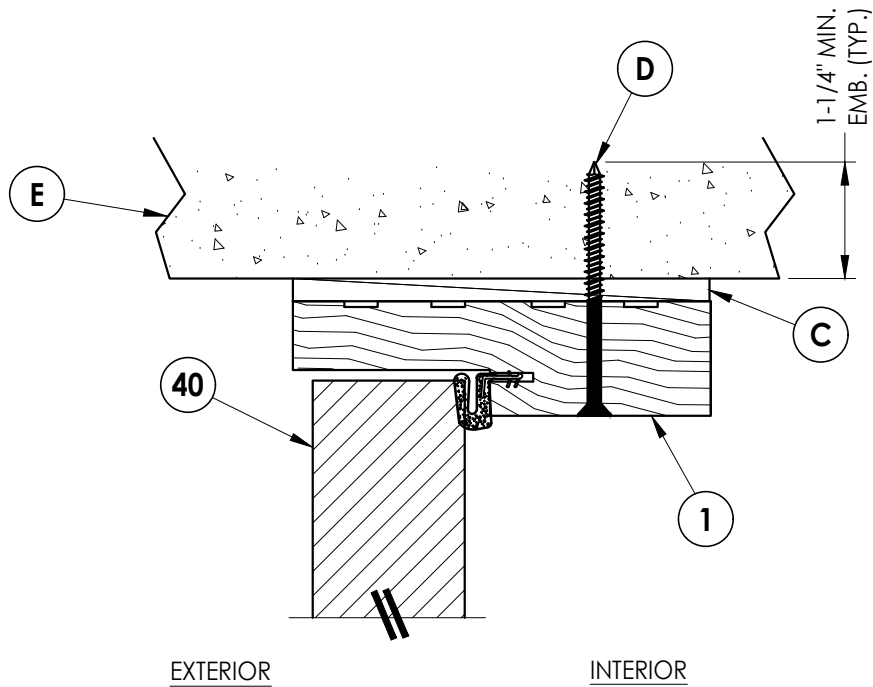
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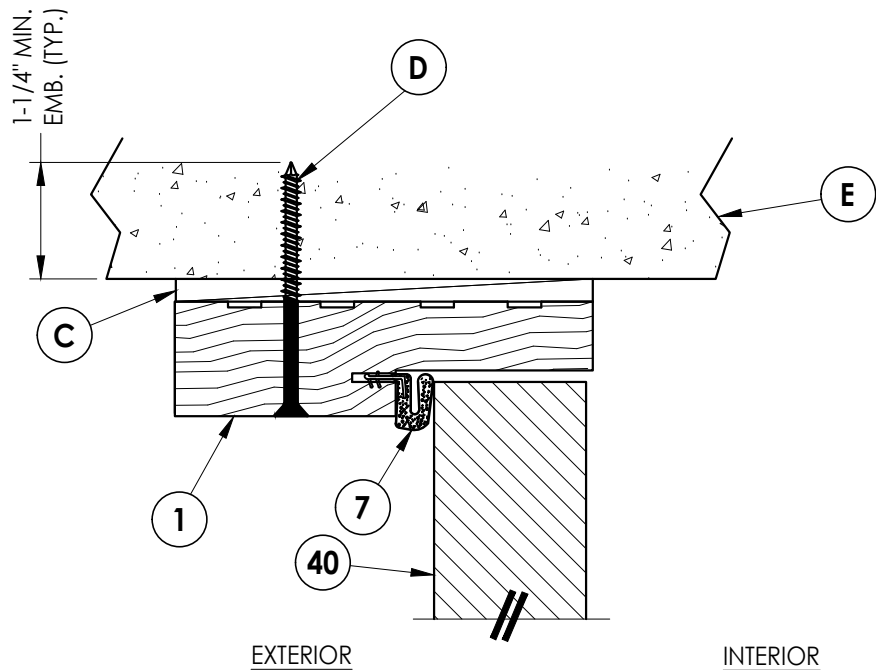
1
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing shown (Inswing similar)



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



3
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing shown



4
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Inswing shown

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

PRODUCT:
STEVE'S & SONS
FIBERGLASS DOOR
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL CROSS
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS	BY
1	8/02/23	UPDATE TO 8TH ED. (2023)	FBC

DATE: 8/10/22

SCALE: N.T.S.

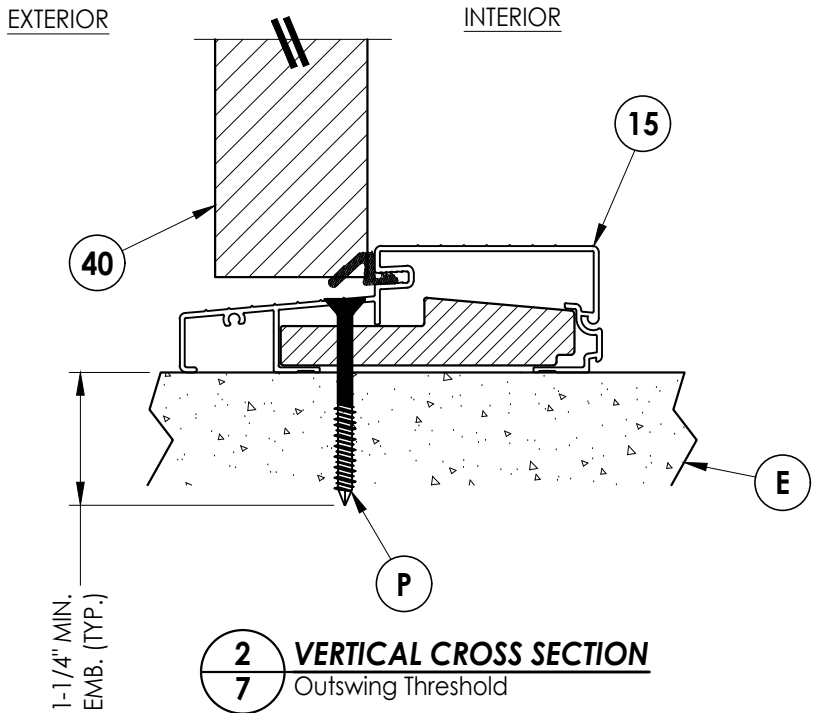
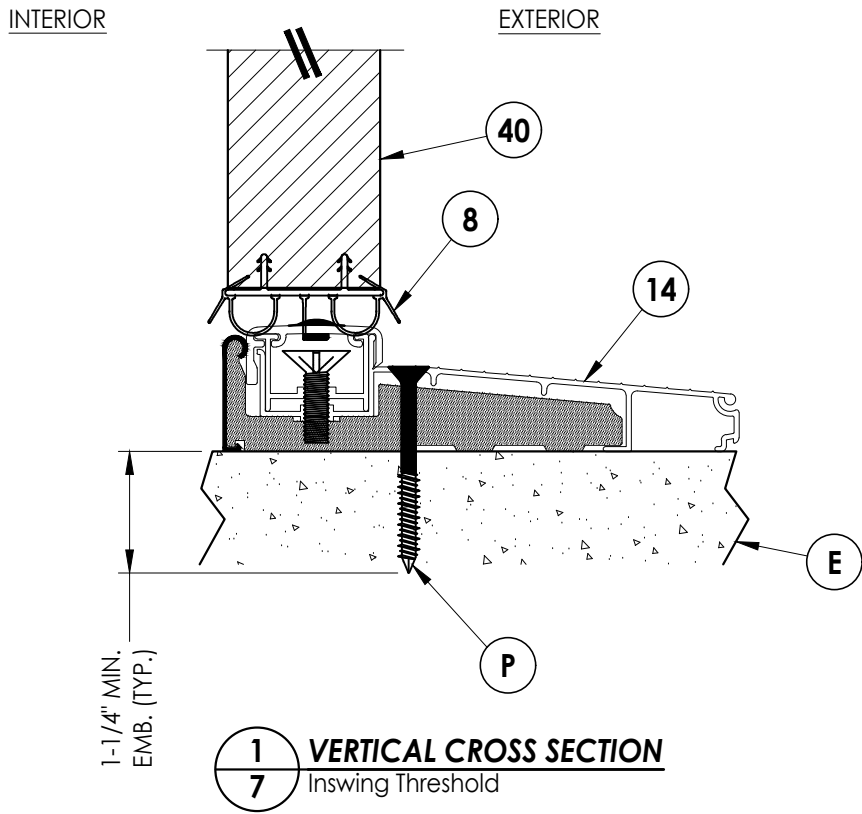
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-41477.5

SHEET 6 OF 10



DATE: 8/10/22

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-41477.5

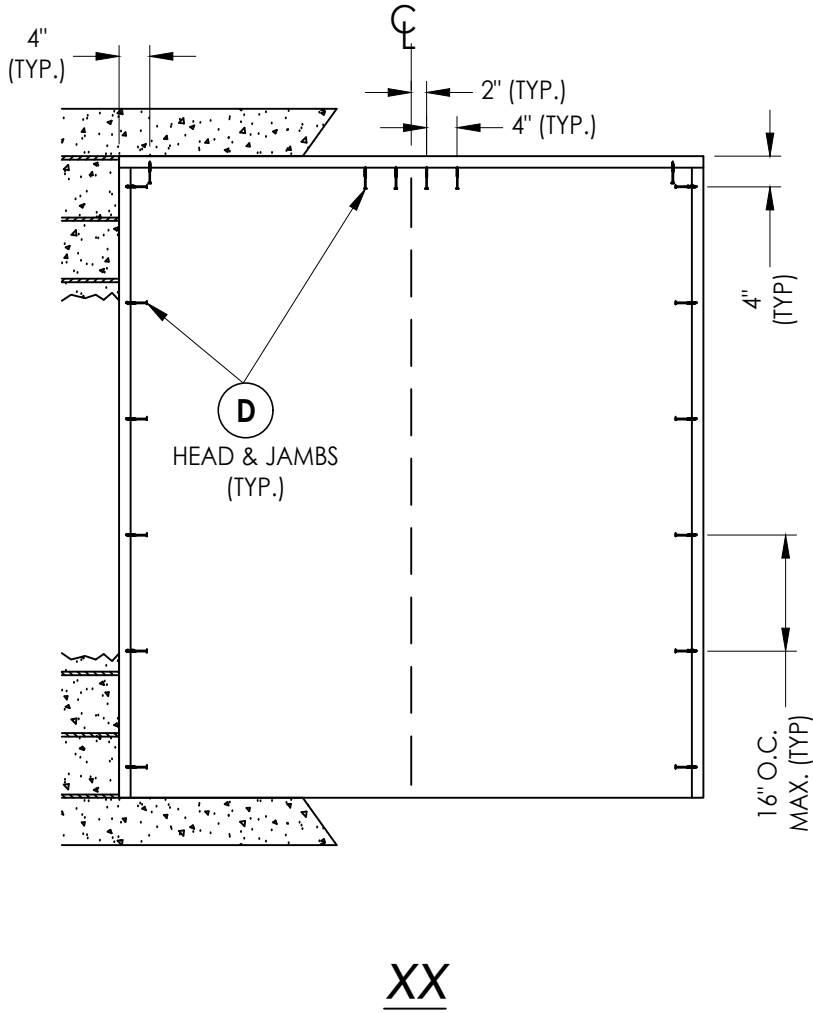
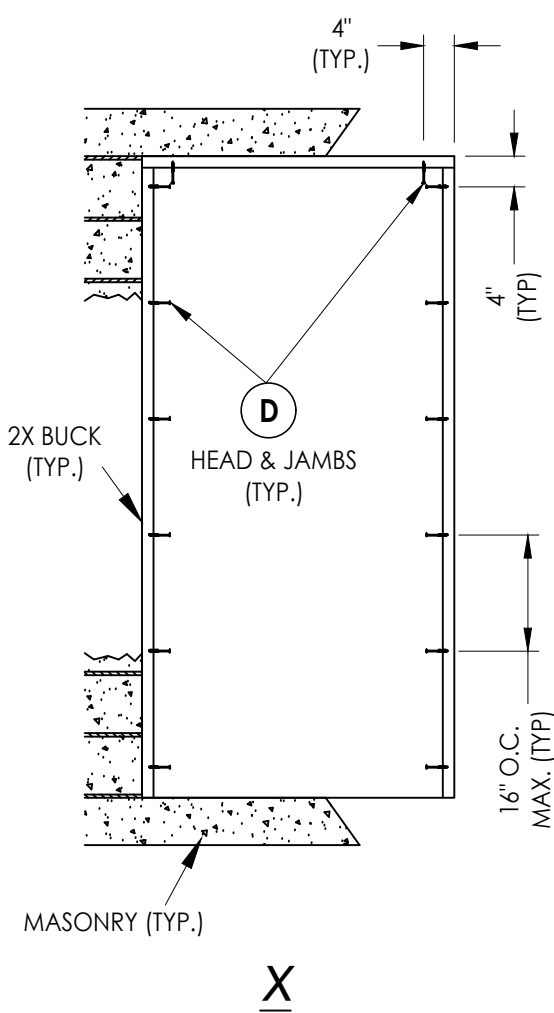
SHEET 7 OF 10

1	8/02/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
NO.	DATE			BY	
REVISIONS					

PRODUCT:	STEVES & SONS FIBERGLASS DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

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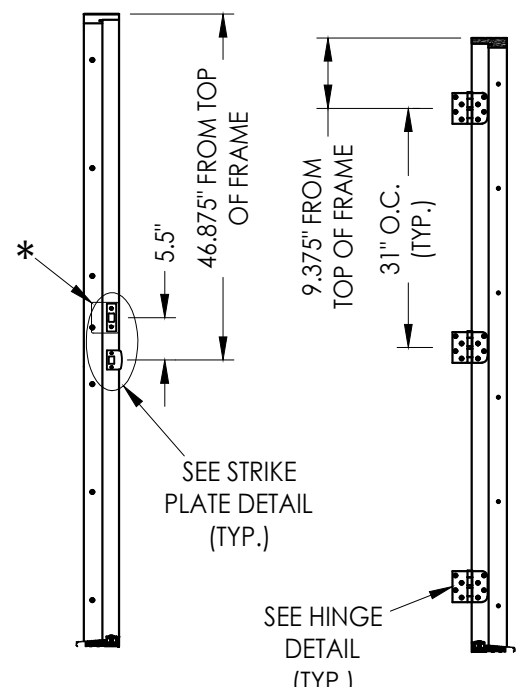
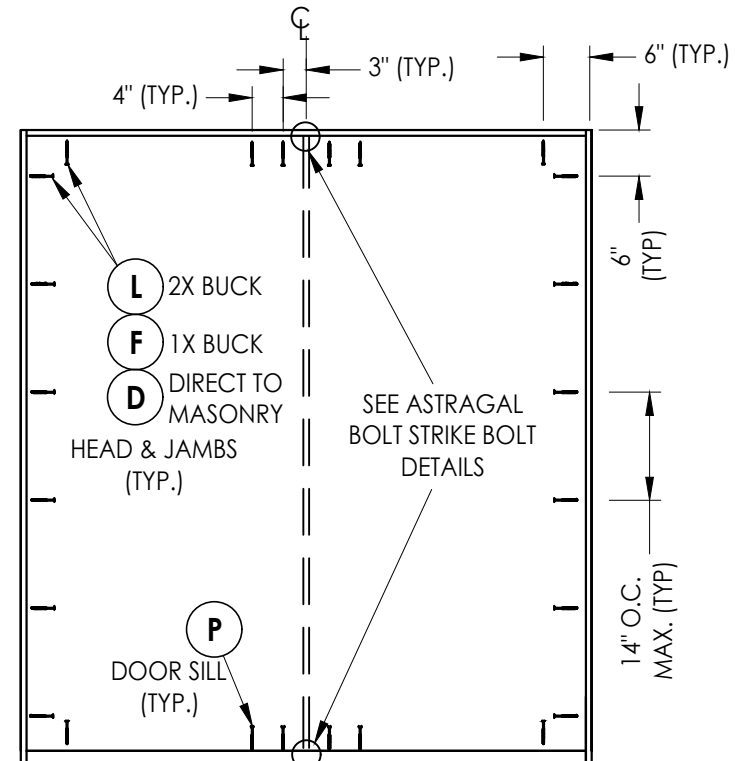
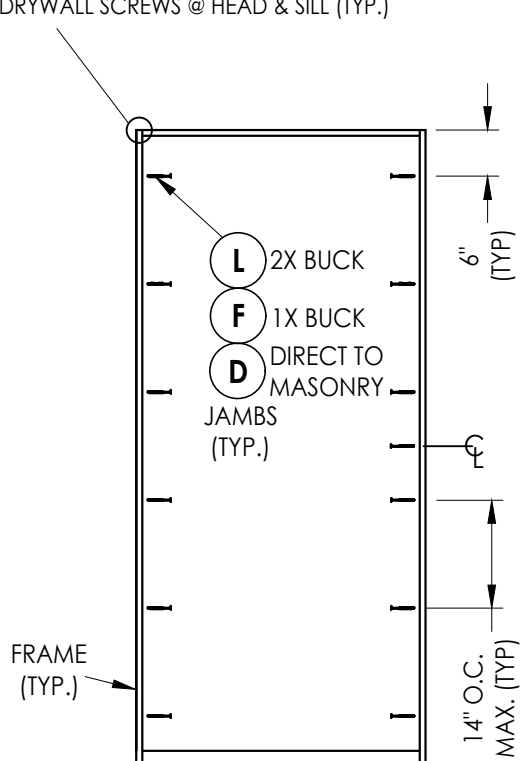
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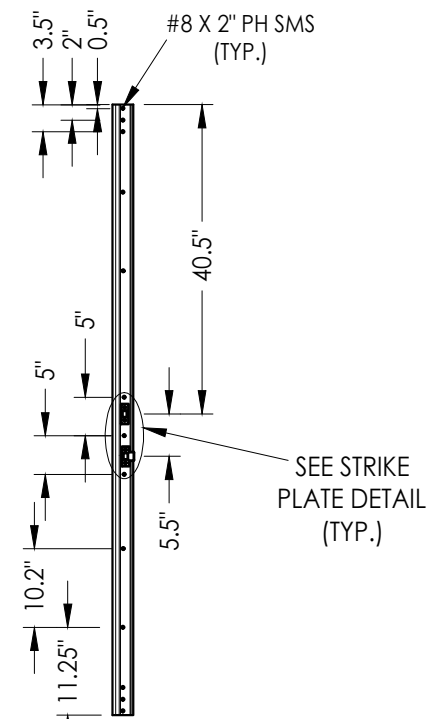
2X BUCK ANCHORING

DATE: 8/10/22				PRODUCT:				Documents Prepared By:							
SCALE: N.T.S.				STEVES & SONS				Lyndon F. Schmidt							
DWG. BY: RW				FIBERGLASS DOOR				P.E. No. 43409							
CHK. BY: LFS				PART OR ASSEMBLY:				RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813							
DRAWING NO.: FL-41477.5				BUCK ANCHORING											
SHEET 8 OF 10				REVISIONS											
1				8/02/23				UPDATE TO 8TH ED. (2023)				LFS			
NO.				DATE								BY			

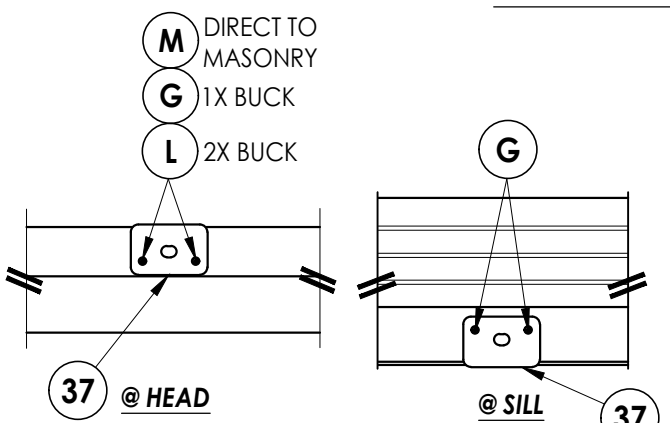
FRAME CORNERS ATTACHED w/ (3) 7/16" CROWN X 1-1/2" LONG 16 GA. STAPLES & (2) #7 X 2" DRYWALL SCREWS @ HEAD & SILL (TYP.)



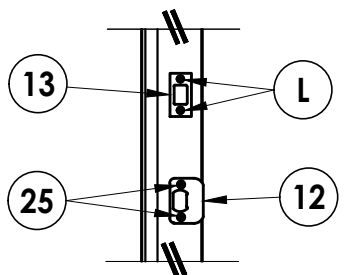
ASTRAGAL SCREWS LOCATED AS SHOWN w/ (3) LOCATED ON EACH SIDE OF LOCK & DEADBOLT STRIKE PLATES (13 SCREWS TOTAL)



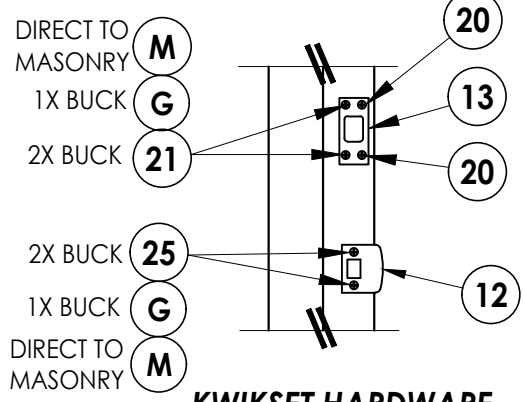
X
FRAME ANCHORING



XX

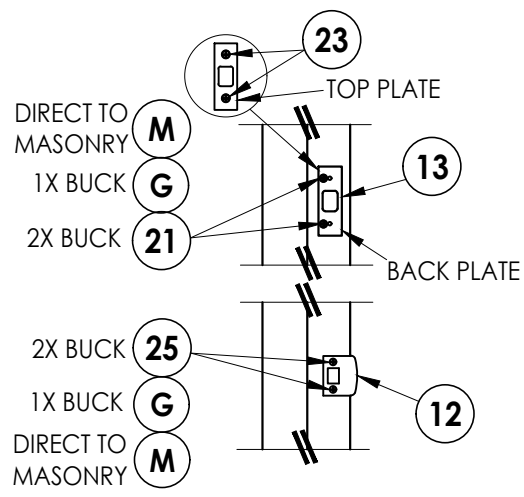


STRIKE PLATE DETAIL
DOUBLE DOOR

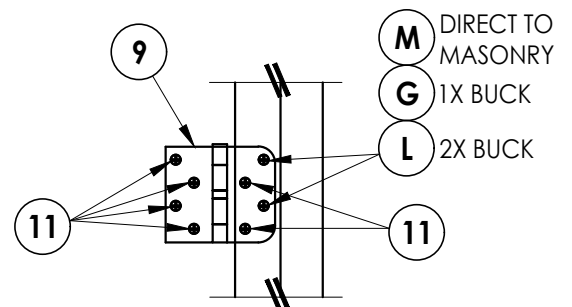


KWIKSET HARDWARE
SINGLE DOOR

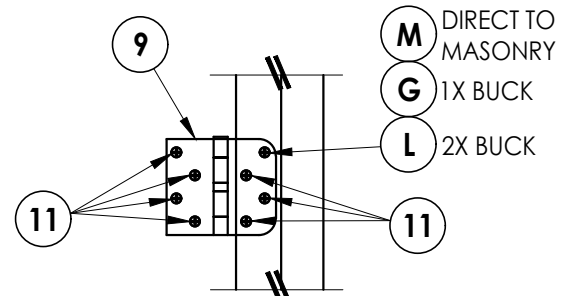
* 3.5" X 4" 20 GA. STEEL PLATE ATTACHED TO BACK OF LOCK JAMB w/ (4) 1" CROWN X 5/8" LONG 16 GA. STAPLES



SCHLAGE HARDWARE
SINGLE DOOR



HINGE DETAIL
INSWING



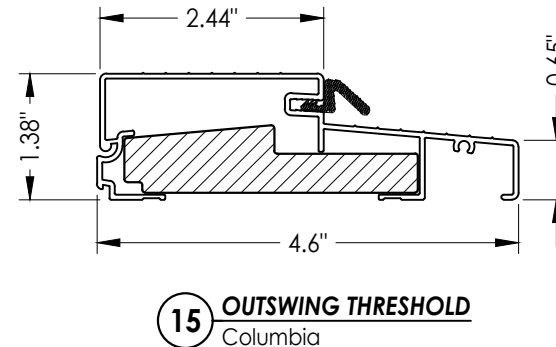
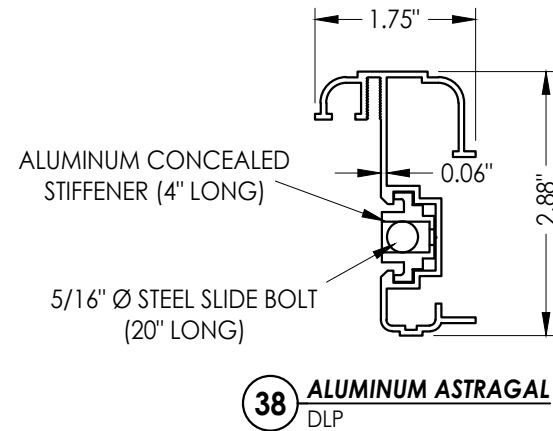
HINGE DETAIL
OUTSWING

ASTRAGAL BOLT STRIKE PLATE DETAILS
OUTSWING

HARDWARE DETAILS

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: STEVES & SONS FIBERGLASS DOOR		PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS	
		LFS	BY
		1	8/02/23
		NO.	DATE
		REVISIONS	
DATE: 8/10/22		SCALE: N.T.S.	
DWG. BY: RW		CHK. BY: LFS	
DRAWING NO.: FL-41477.5		SHEET 9 OF 10	

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
1	WOOD JAMB	WOOD
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	4" X 4" HINGE	STEEL
11	#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
20	#9 X 1/2" PFH WOOD SCREW	STEEL
21	#12 X 2-1/2" PFH WOOD SCREW	STEEL
23	#8 X 3/4" PFH WOOD SCREW	STEEL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 2" PH SMS	STEEL
37	ASTRAGAL STRIKE PLATE	STEEL
38	ALUMINUM ASTRAGAL	ALUM
40	DOOR PANEL	-



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 BUILDDEX 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"

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

[illegible]

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