



STEVE'S AND SONS
203 Humble Ave.
San Antonio, TX 78225

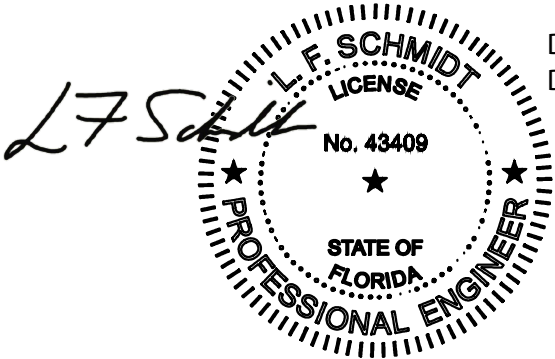
**OPAQUE STEEL DOOR
SINGLE & DOUBLE**

**INSWING/OUTSWING
"IMPACT"**

GENERAL NOTES

1. This product anchoring drawing has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) 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 includes Wind Zone 3 as defined in ASTM E1996.
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.

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4	Horizontal & Vertical Cross Sections (2X Buck)	9	Frame Anchoring & Hardware Details
5	Horizontal & Vertical Cross Sections (1X Buck)	10	Bill of Materials & Components

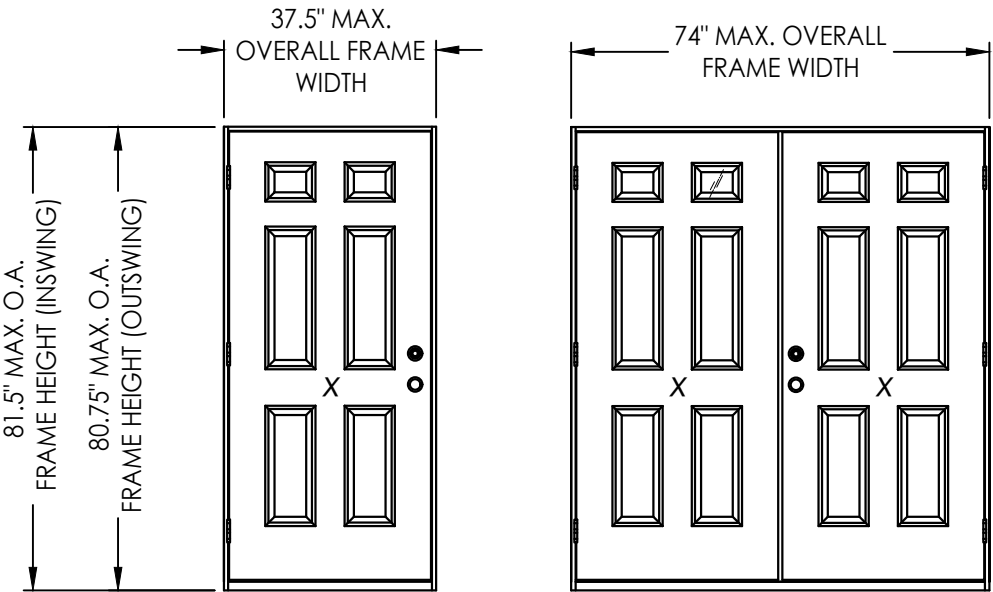


Digitally signed by Lyndon F Schmidt
Date: 2026.07.20 08:57:54 -04'00'

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

ELEMENT COLLECTION



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

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

STEVE'S & SONS
STEEL DOOR

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

DATE: 7/06/22

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

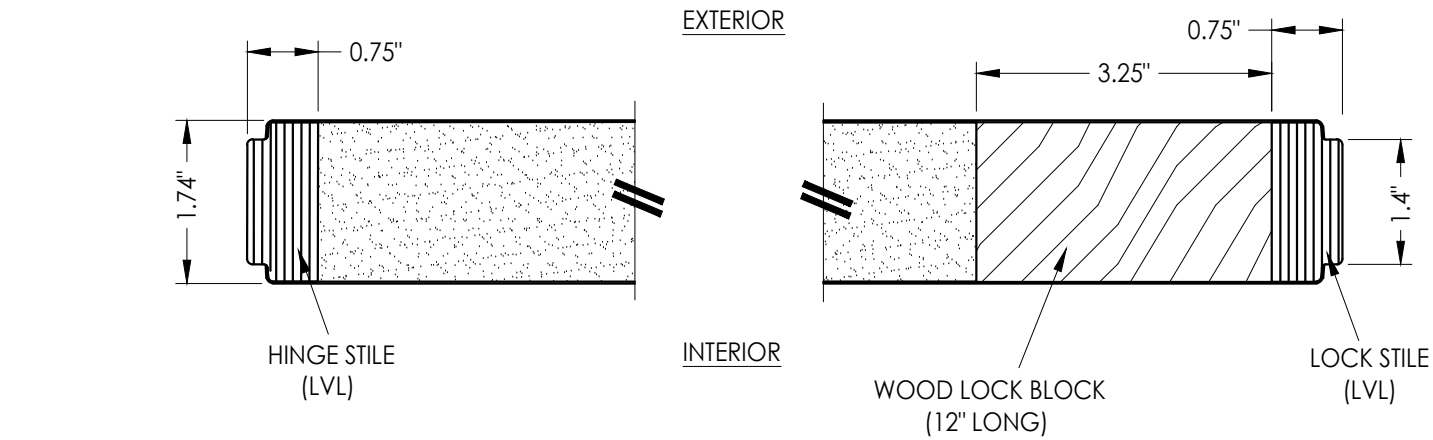
DRAWING NO.: FL-41471.3

SHEET 1 OF 10

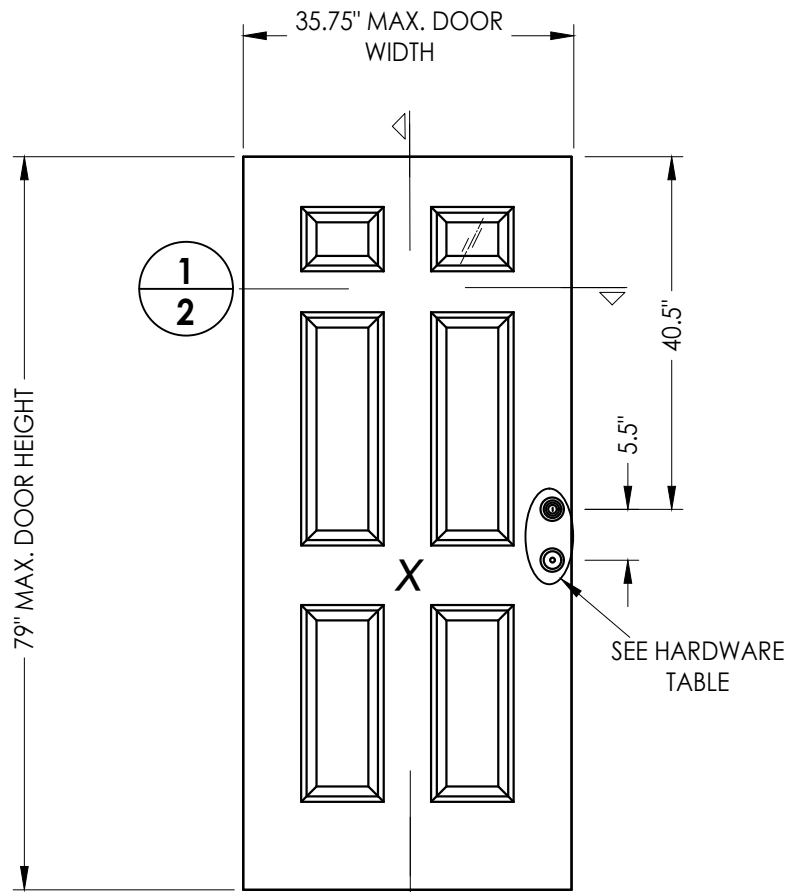
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

2	7/02/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	8/02/23	UPDATE TO 8TH ED. (2023) FBC	LFS
NO.	DATE		BY

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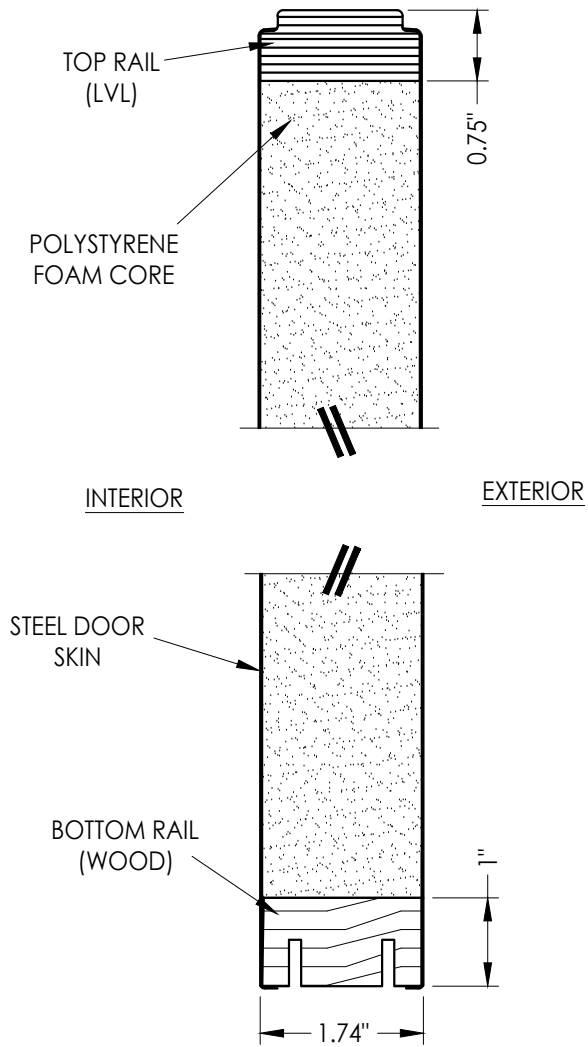


1
2 **HORIZONTAL CROSS SECTION**



2
2 **STEEL DOOR PANEL**

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



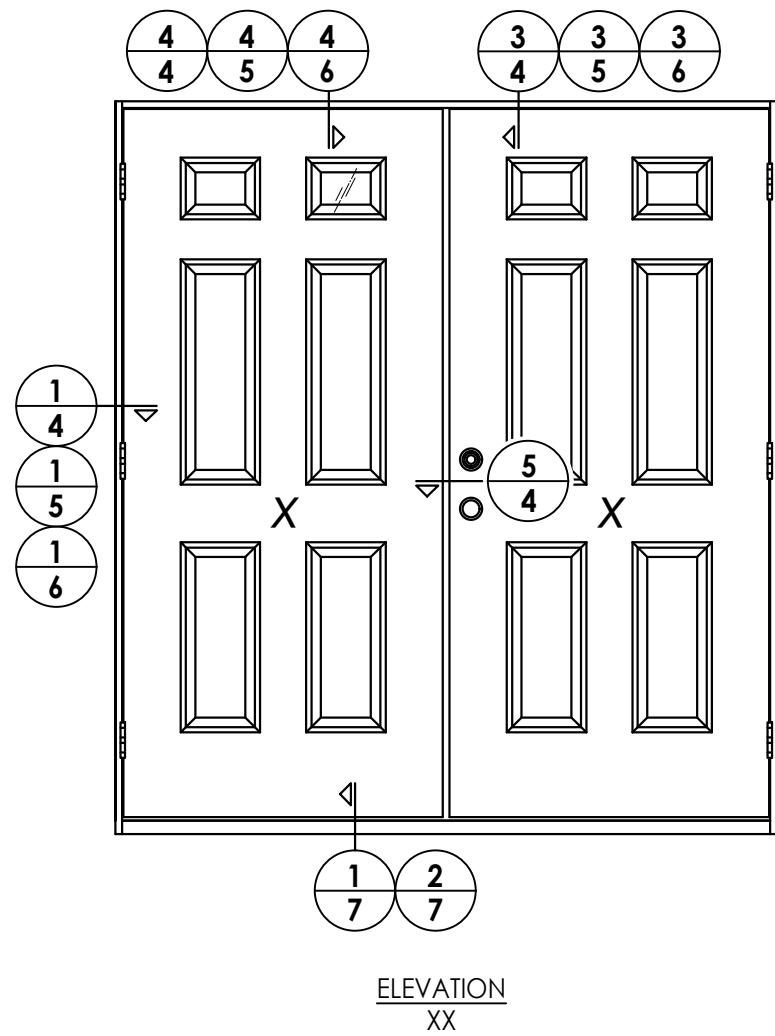
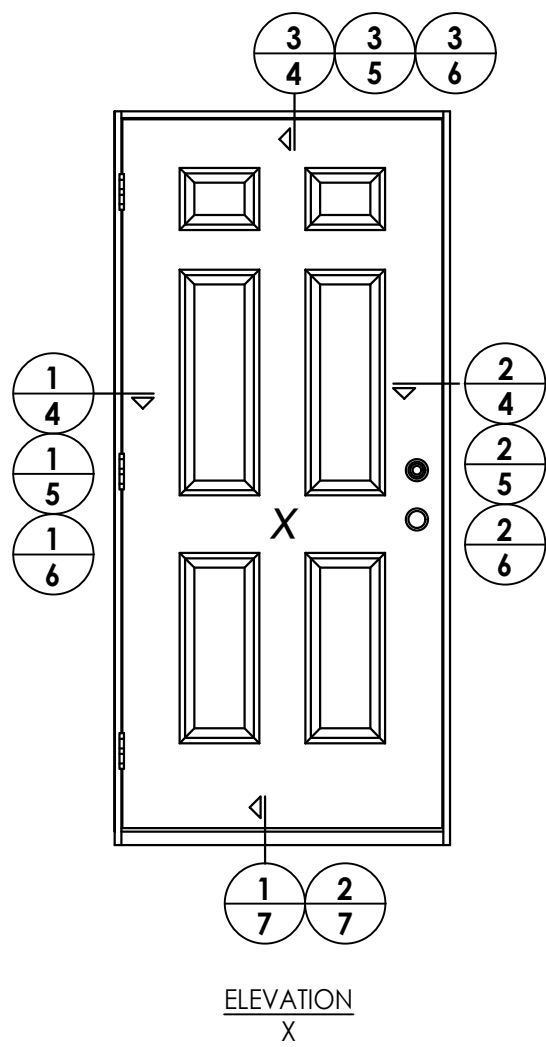
2
2 **VERTICAL CROSS SECTION**

STEEL DOOR SKIN: MIN. 0.020" THK.
CORE MATERIAL: POLYSTYRENE FOAM

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PRODUCT:		STEVE'S & SONS STEEL DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
NO.	DATE	REVISIONS	BY
2	7/02/26	UPDATE TO 9TH ED. (2026) FBC	LFS
1	8/02/23	UPDATE TO 8TH ED. (2023) FBC	LFS
DATE: 7/06/22			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-41471.3			
SHEET 2 OF 10			



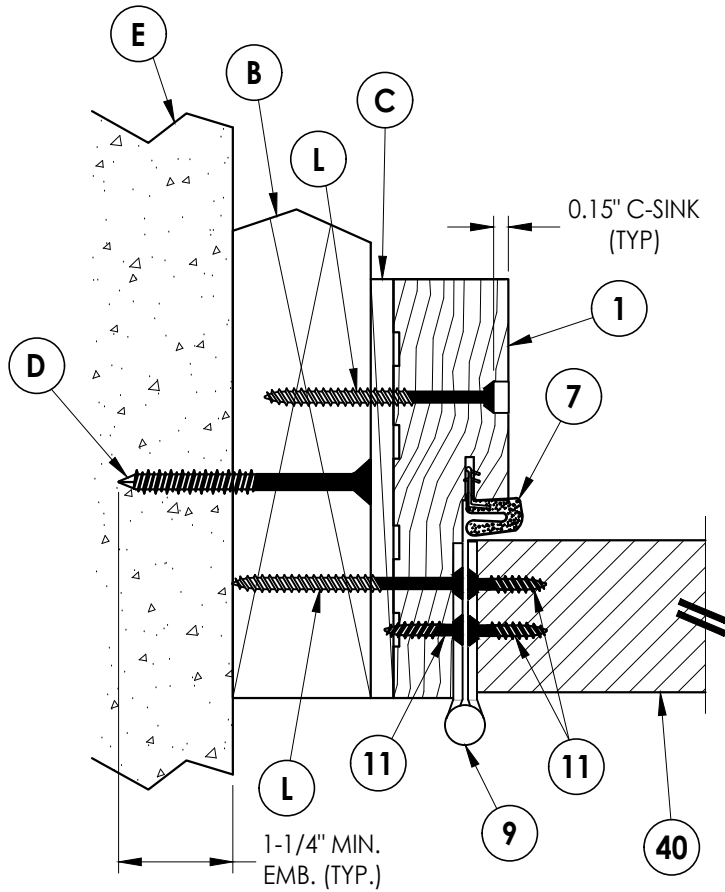
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SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-41471.3
SHEET	3 OF 10

2	7/02/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
1	8/02/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
NO.	DATE				BY
					REVISIONS

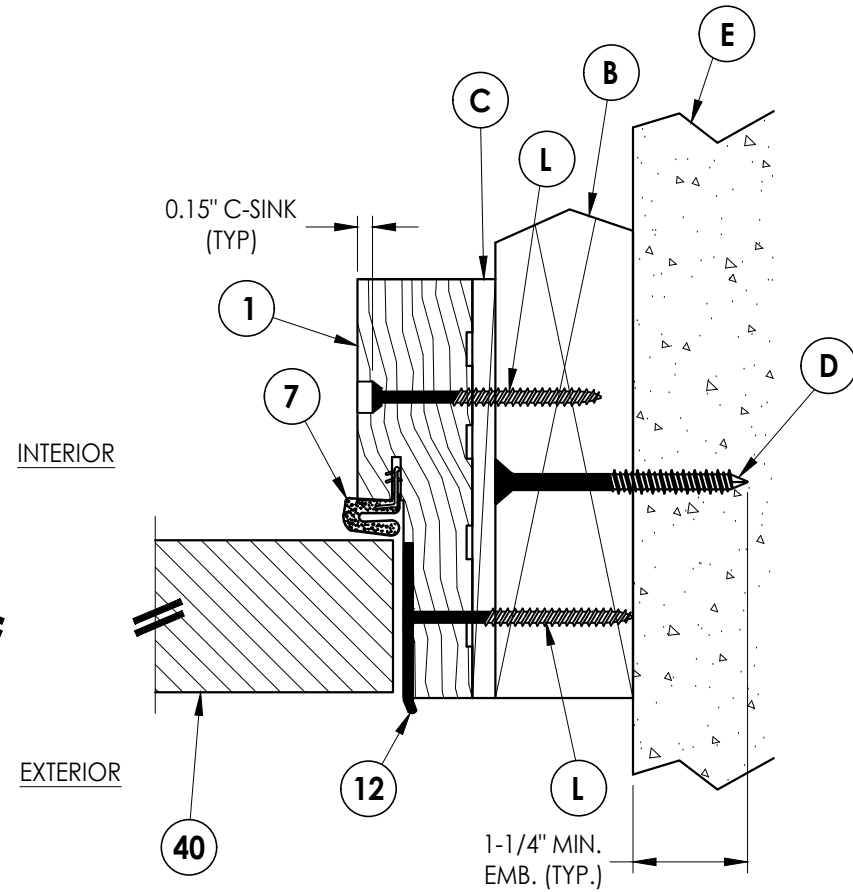
PRODUCT:	STEVES & SONS STEEL DOOR
PART OR ASSEMBLY:	ELEVATIONS

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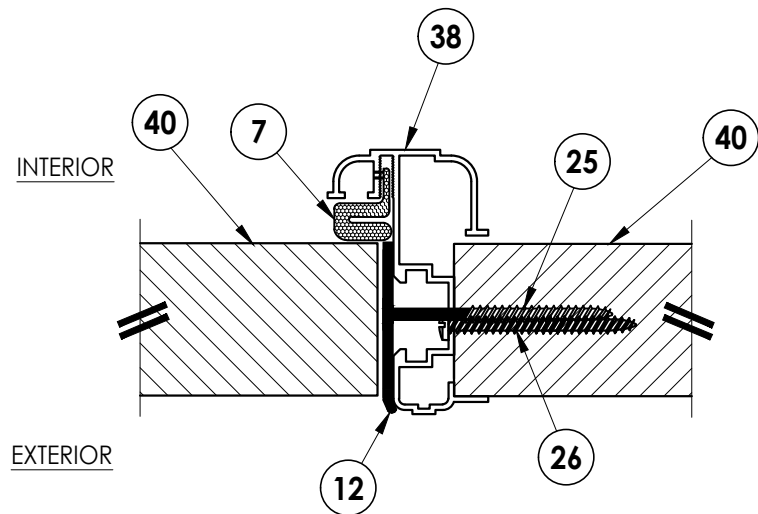
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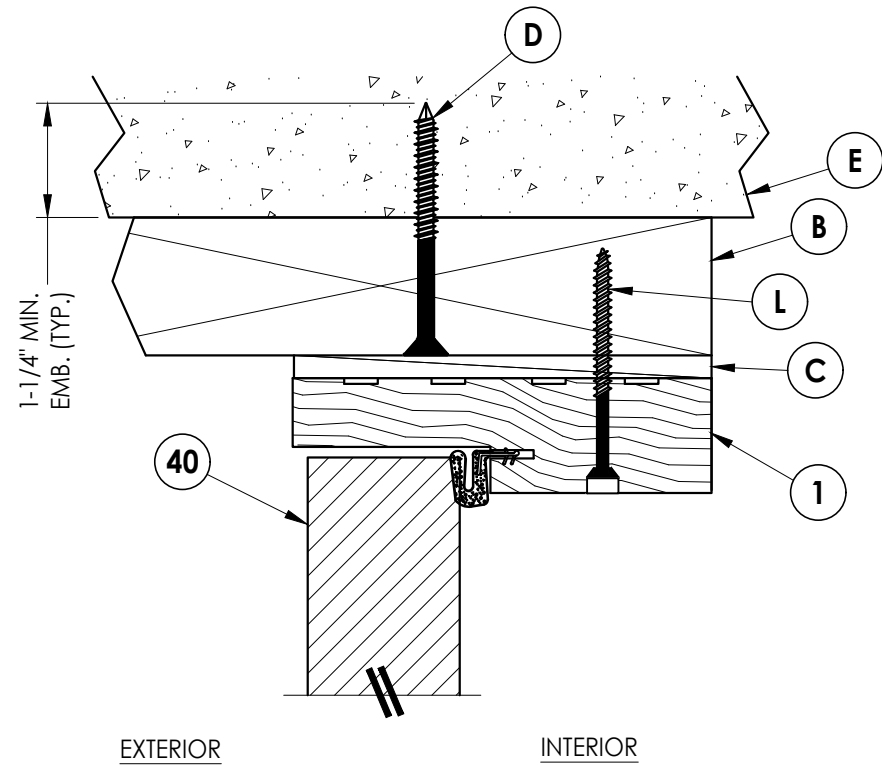
1
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



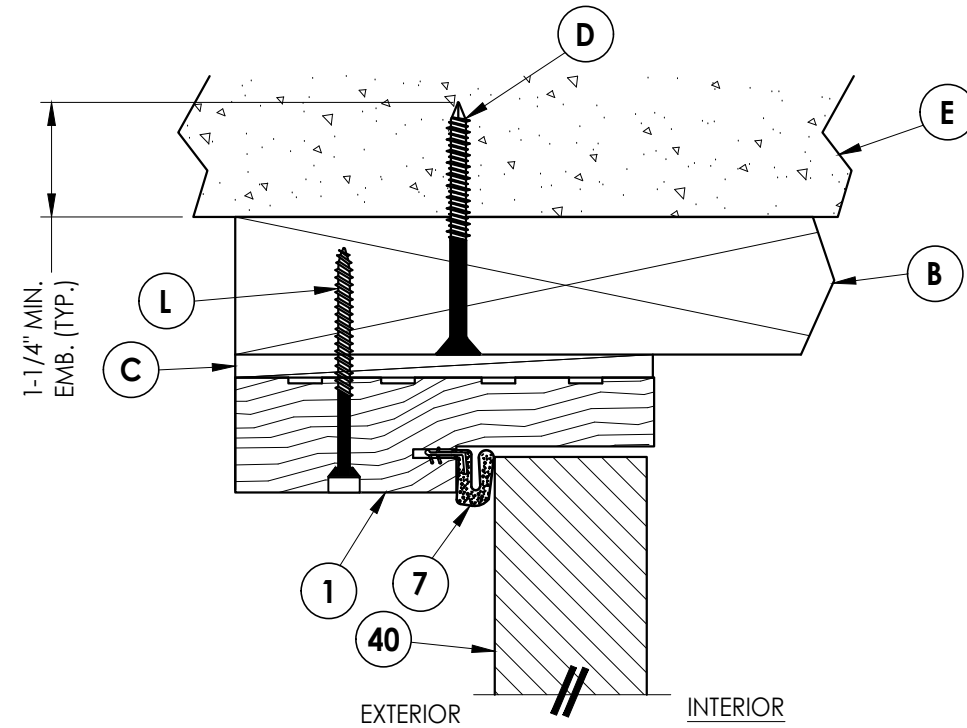
2
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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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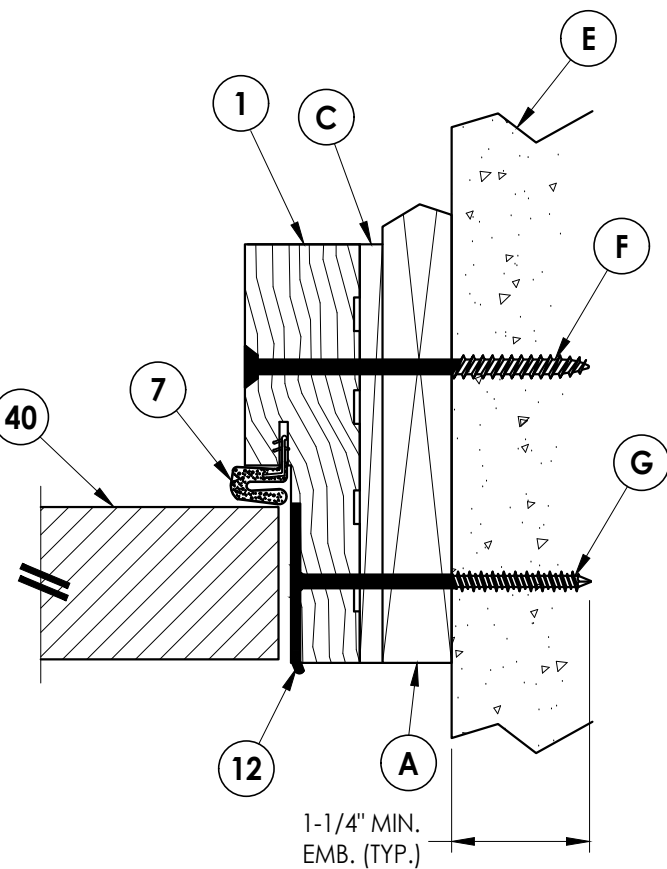
PRODUCT:
STEVES & SONS
STEEL DOOR

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

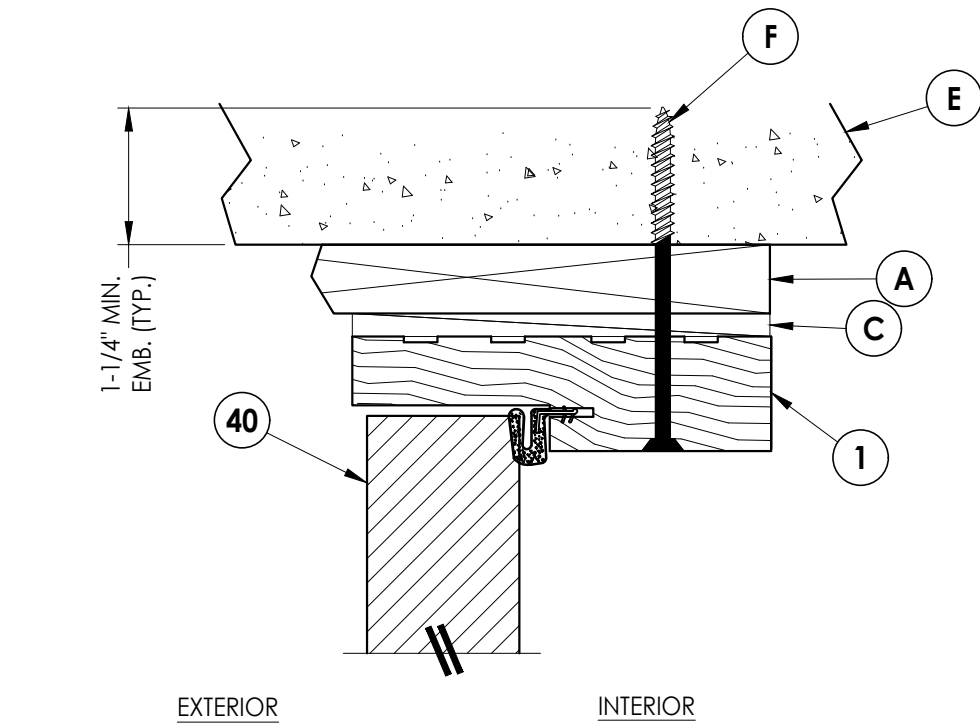
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SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-41471.3
SHEET 4 OF 10

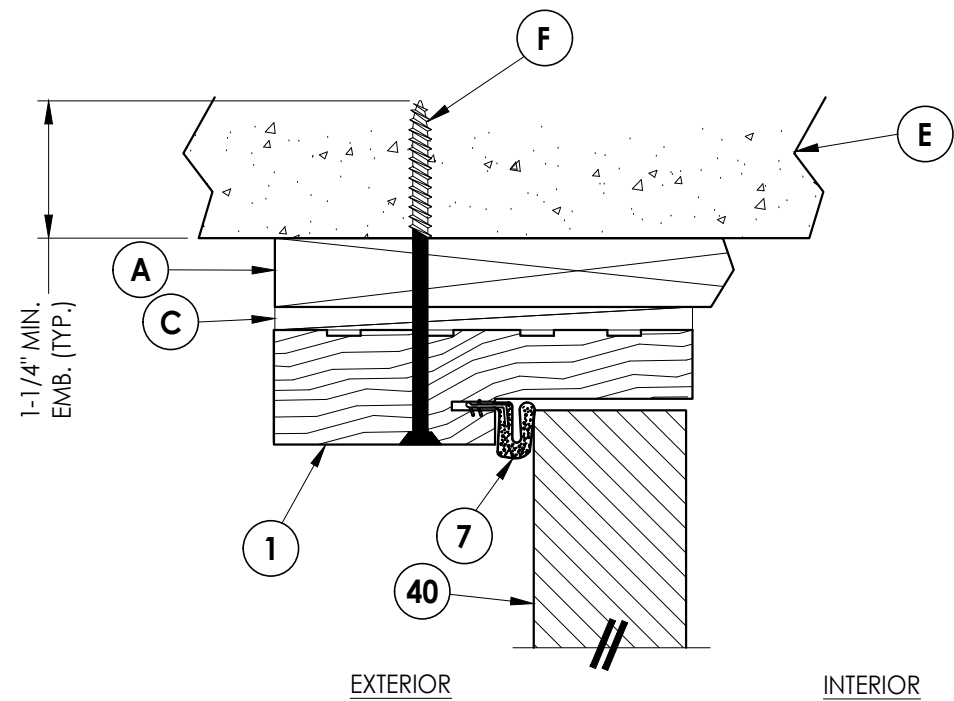
INTERIOR



EXTERIOR



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



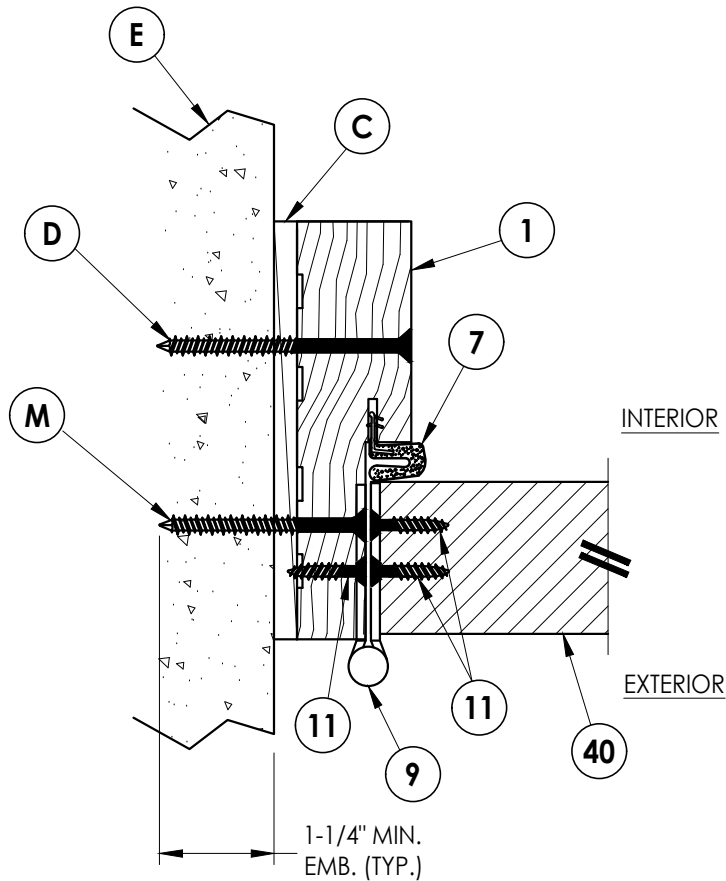
4 VERTICAL CROSS SECTION
5 Shown w/ 1X Buck
Inswing shown

[illegible]

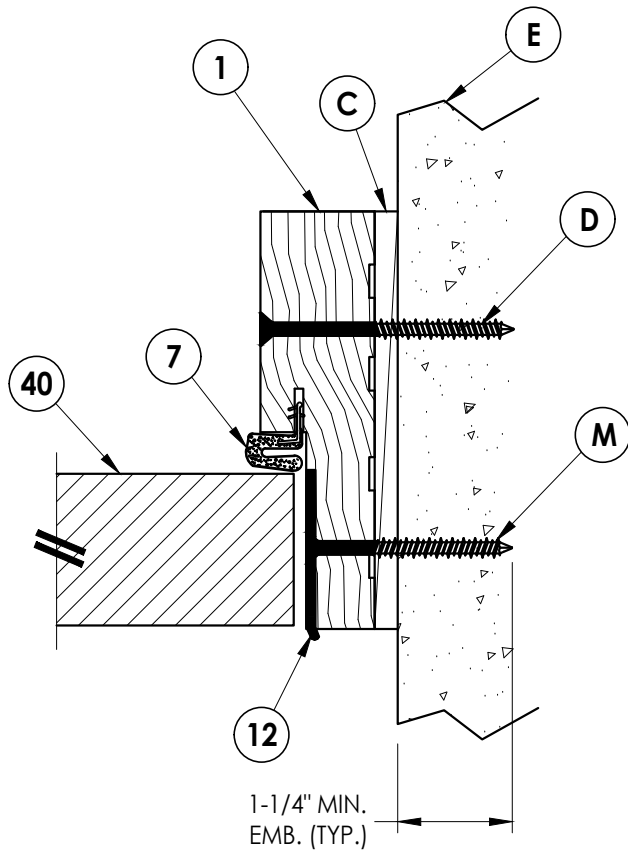
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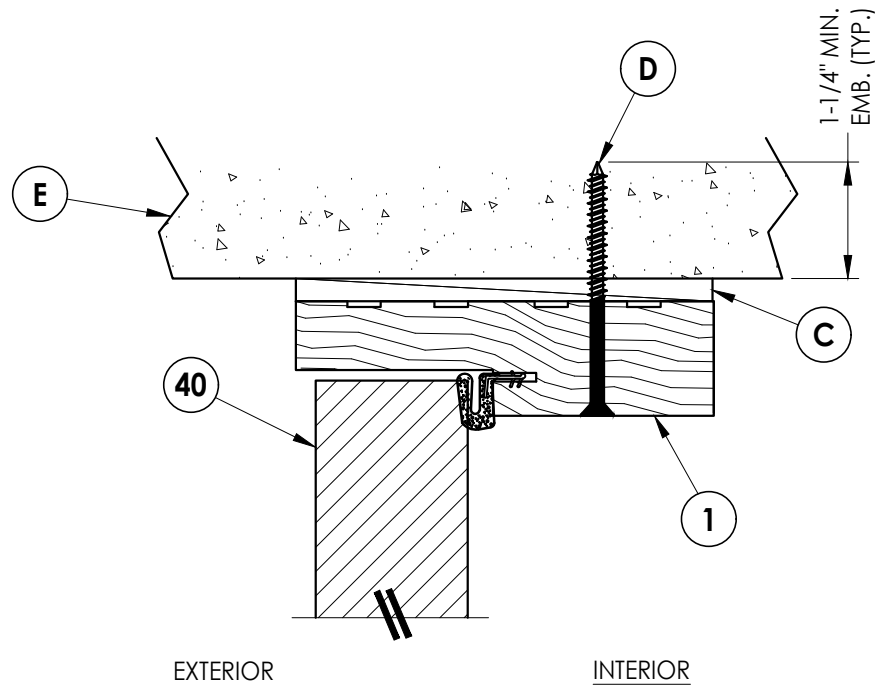
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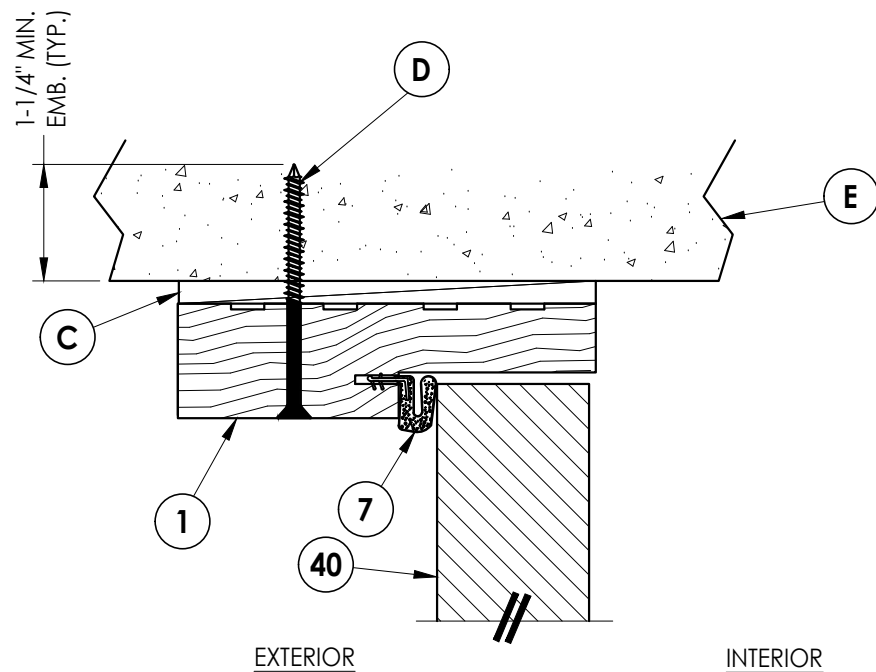
1
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing shown (Inswing similar)



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

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FBPE Registry No. 9813

PRODUCT: STEVES & SONS
STEEL DOOR
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL CROSS
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS
2	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
1	8/02/23	UPDATE TO 8TH ED. (2023) FBC LFS

DATE: 7/06/22

SCALE: N.T.S.

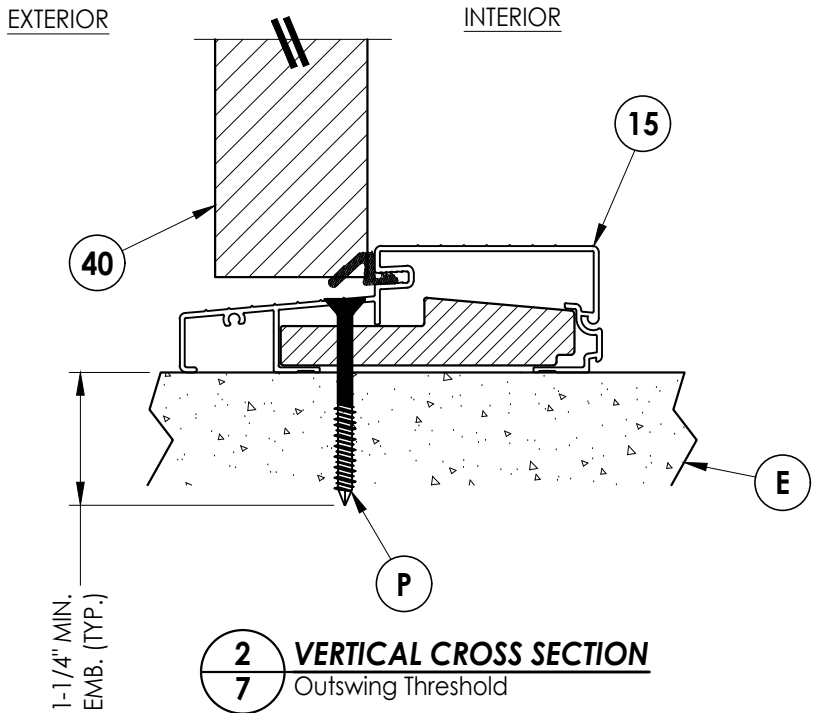
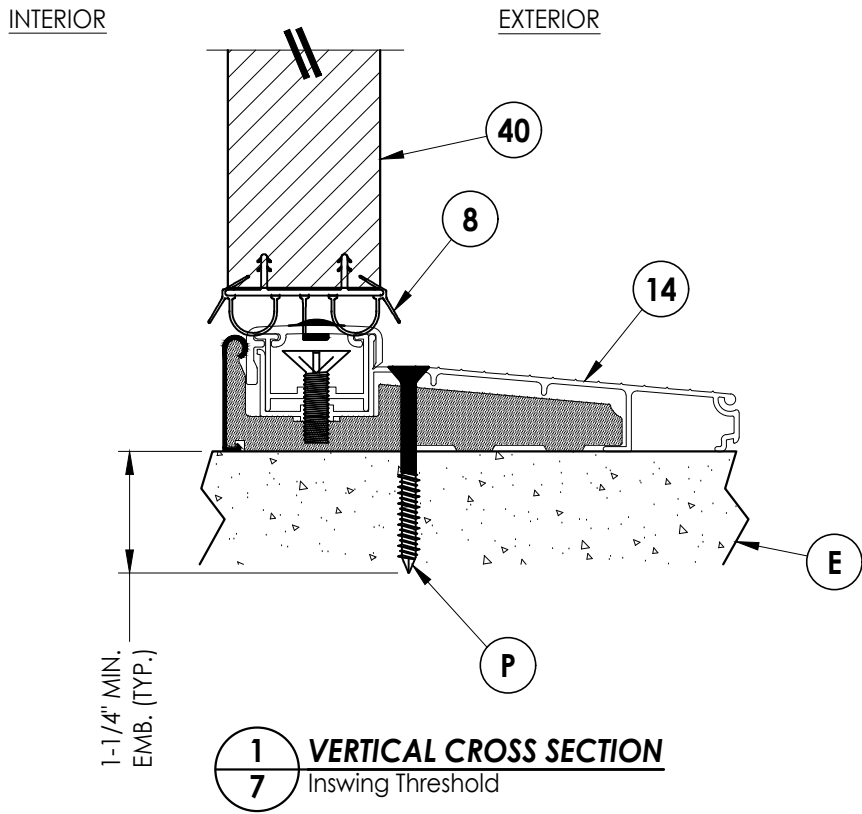
DWG. BY: RW

CHK. BY: LFS

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FL-41471.3

SHEET 6 OF 10



DATE: 7/06/22

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-41471.3

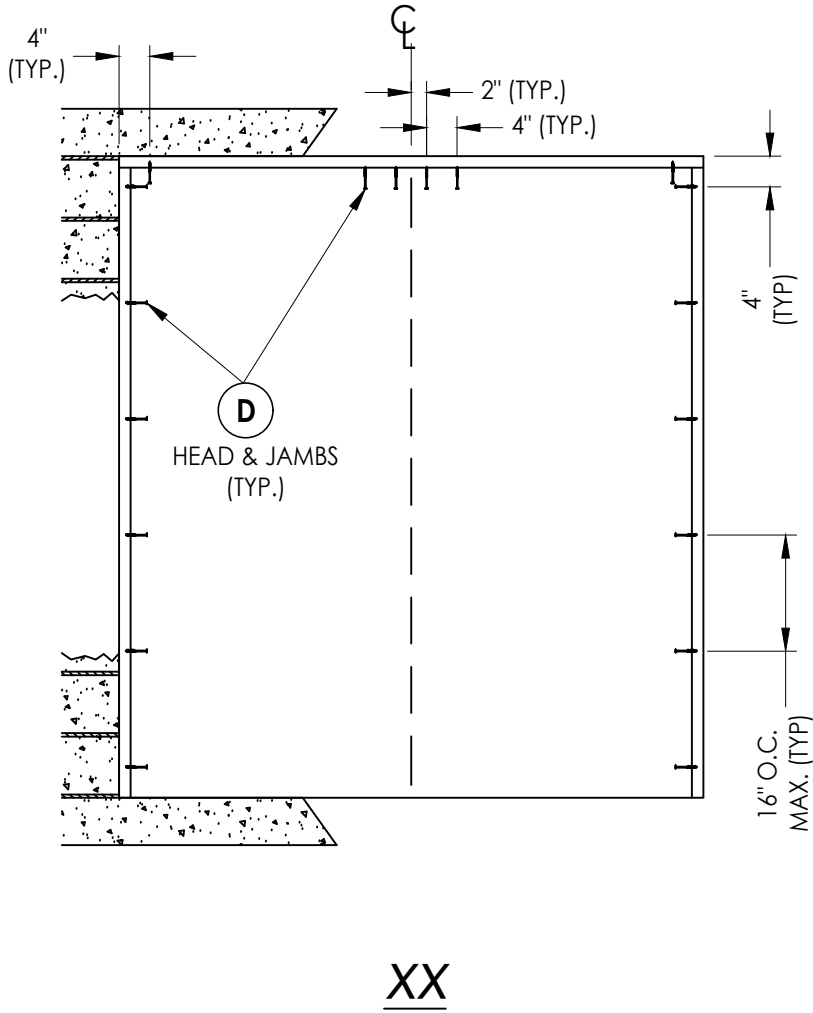
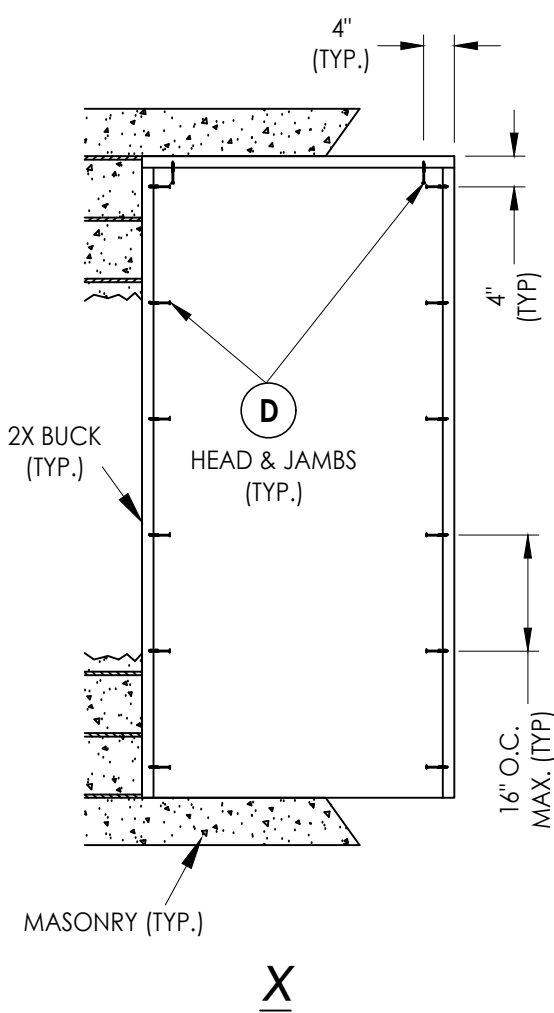
SHEET 7 OF 10

NO.	DATE	REVISIONS
2	7/02/26	UPDATE TO 9TH ED. (2026) FBC
1	8/02/23	UPDATE TO 8TH ED. (2023) FBC
		BY

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

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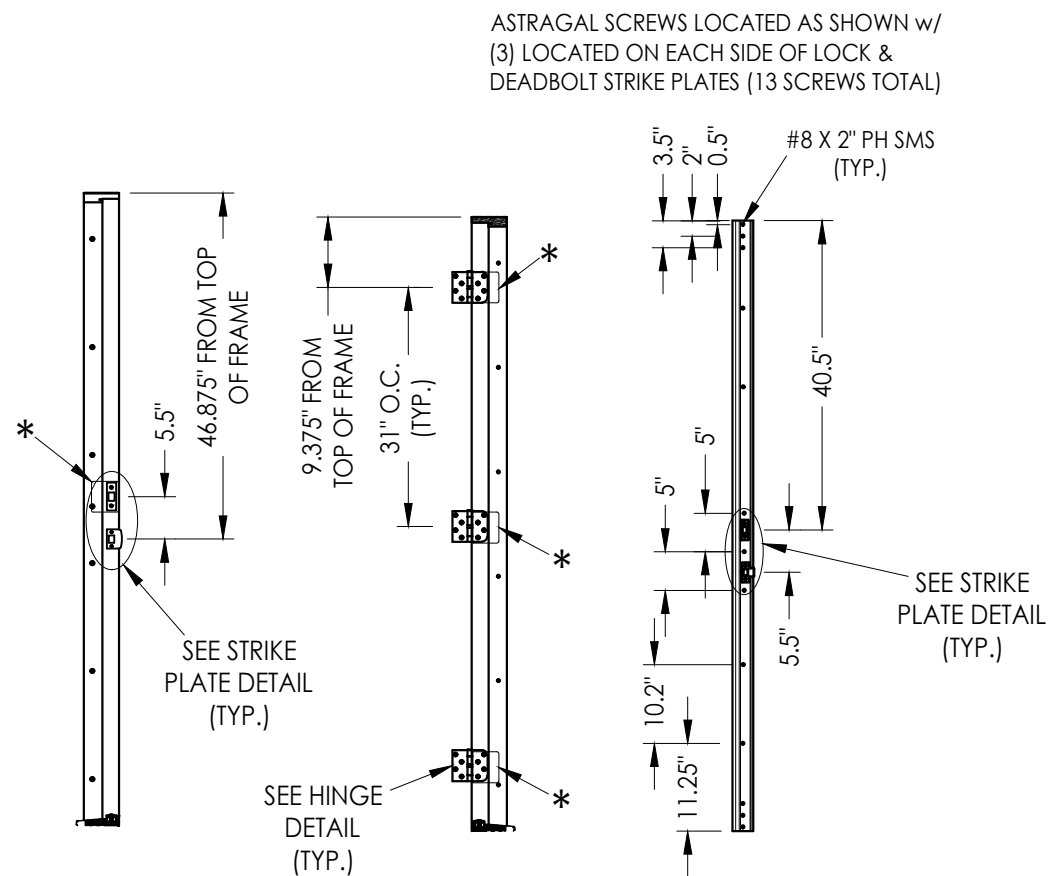
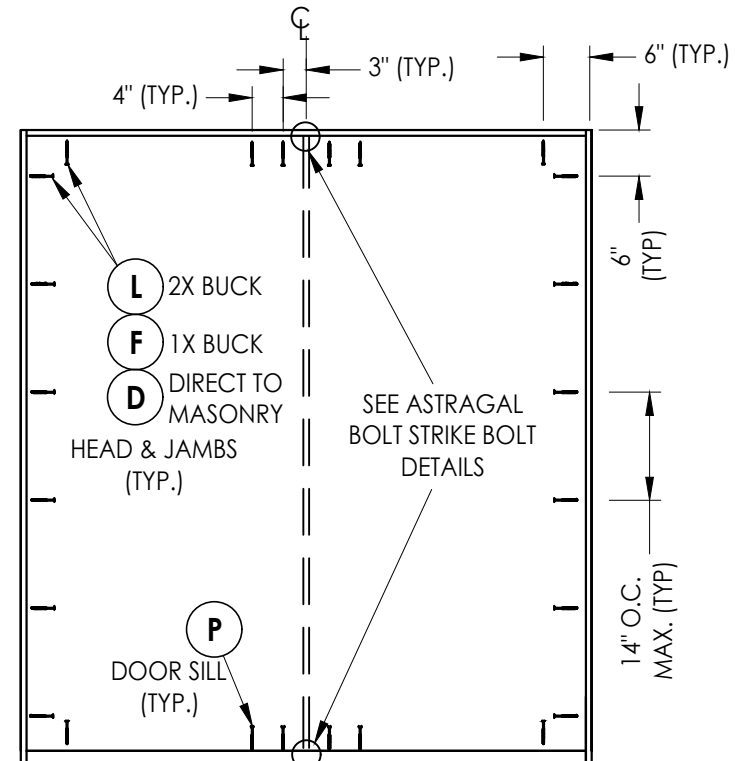
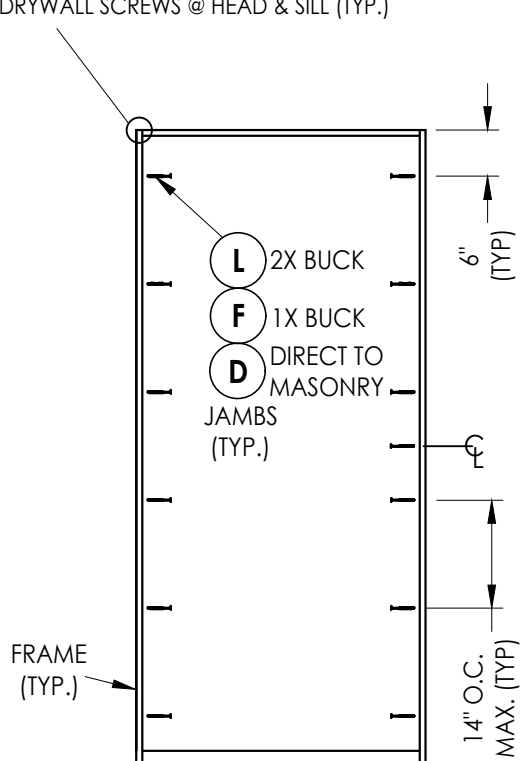
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2X BUCK ANCHORING

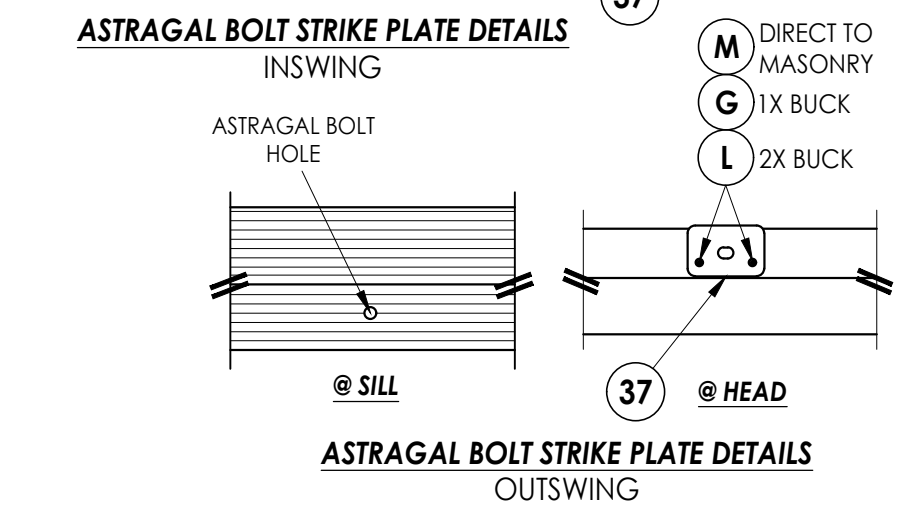
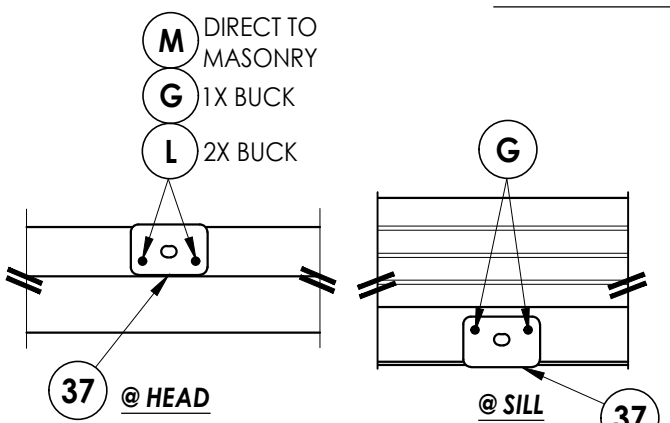
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: STEVE'S & SONS STEEL DOOR				PART OR ASSEMBLY: BUCK ANCHORING			
				LFS	FBC	UPDATE TO 9TH ED. (2026)	
				LFS	FBC	UPDATE TO 8TH ED. (2023)	
				BY			
				REVISIONS			
				NO.	DATE		
2	7/02/26						
1	8/02/23						
DATE: 7/06/22							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-41471.3							
SHEET 8 OF 10							

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.)

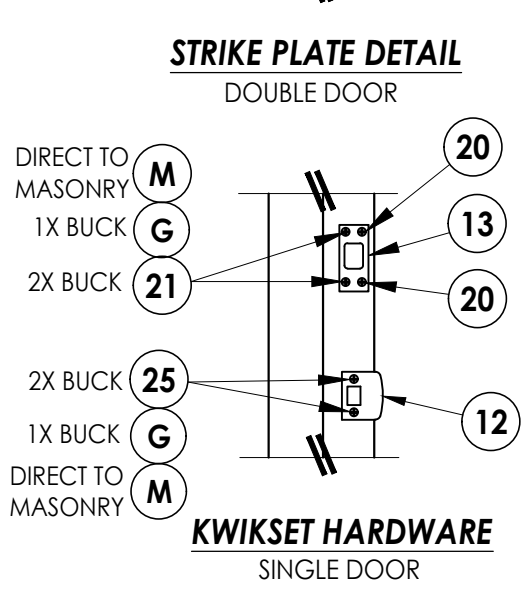
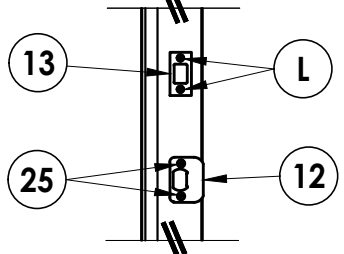


ASTRAGAL SCREWS LOCATED AS SHOWN w/ (3) LOCATED ON EACH SIDE OF LOCK & DEADBOLT STRIKE PLATES (13 SCREWS TOTAL)

X
FRAME ANCHORING

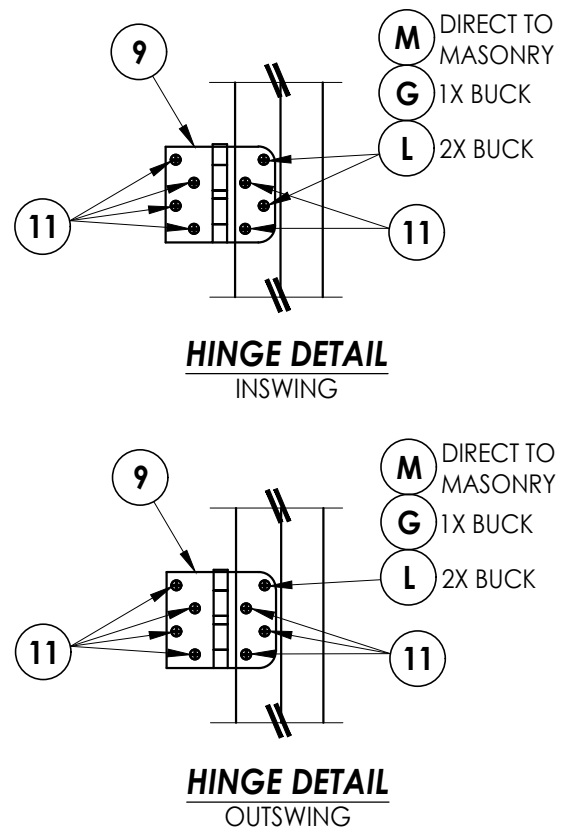
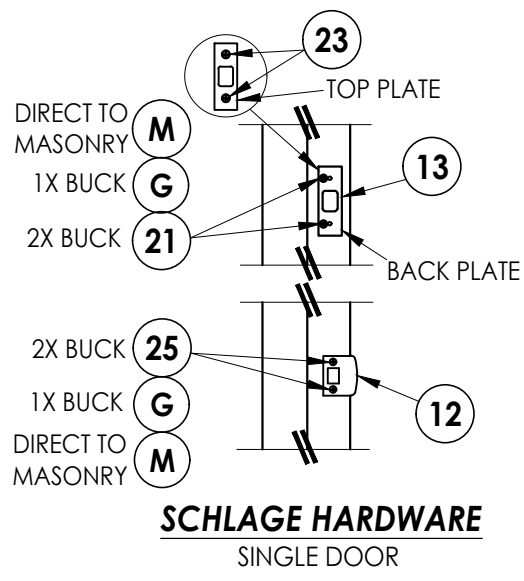


XX
STRIKE PLATE DETAIL



HARDWARE DETAILS

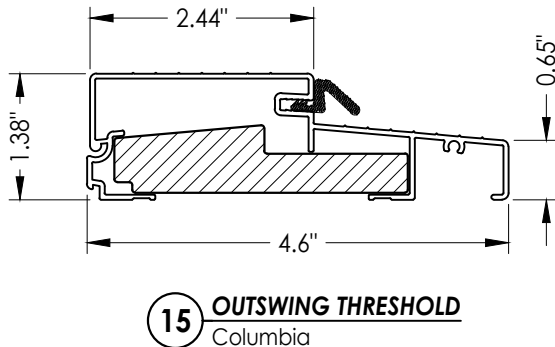
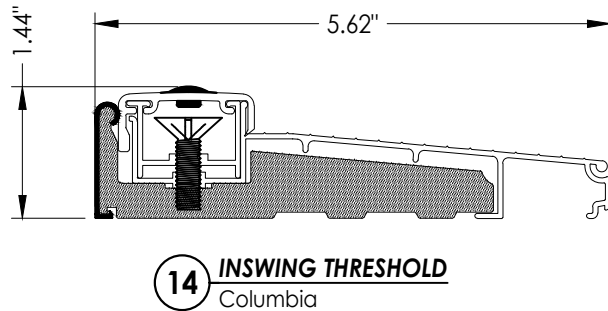
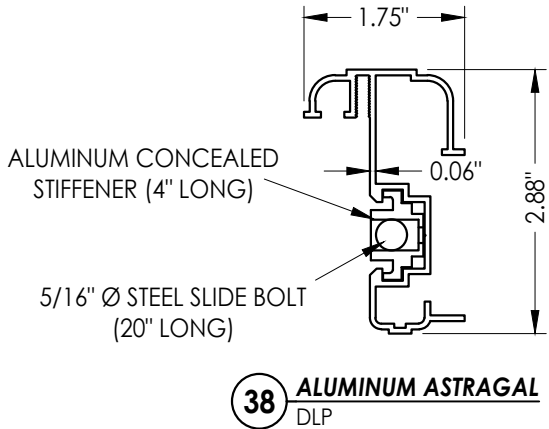
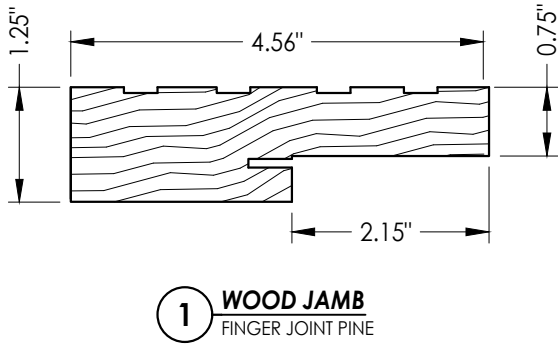
* 3.5" X 4" 20 GA. STEEL PLATE ATTACHED TO BACK OF JAMBS w/ (4) 1" CROWN X 5/8" LONG 16 GA. STAPLES



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PRODUCT: STEVES & SONS STEEL DOOR		PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS	
		LFS	BY
		2	7/02/26
		1	8/02/23
		NO.	DATE
		REVISIONS	
DATE: 7/06/22		SCALE: N.T.S.	
DWG. BY: RW		CHK. BY: LFS	
DRAWING NO.: FL-41471.3		SHEET 9 of 10	

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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
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	-



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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P.E. No. 43409

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PRODUCT:
STEVE'S & SONS
STEEL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
2	7/02/26	UPDATE TO 9TH ED. (2026) FBC
1	8/02/23	UPDATE TO 8TH ED. (2023) FBC

DATE: 7/06/22

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CHK. BY: LFS

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SHEET 10 OF 10