



STEVE'S AND SONS

203 Humble Ave.
San Antonio, TX 78225

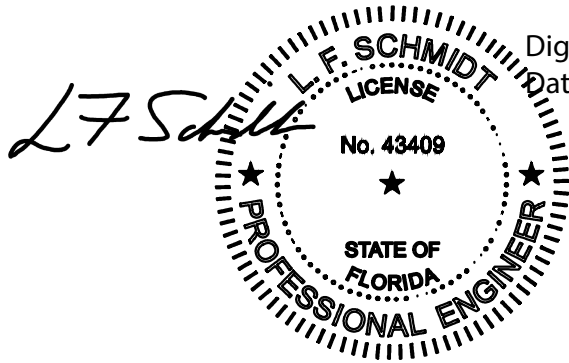
OPAQUE STEEL DOOR
SINGLE & DOUBLE

INSWING/OUTSWING
"IMPACT"

GENERAL NOTES

1. This product anchoring drawing has been evaluated and is in compliance with the 8th Edition (2023) 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 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.

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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

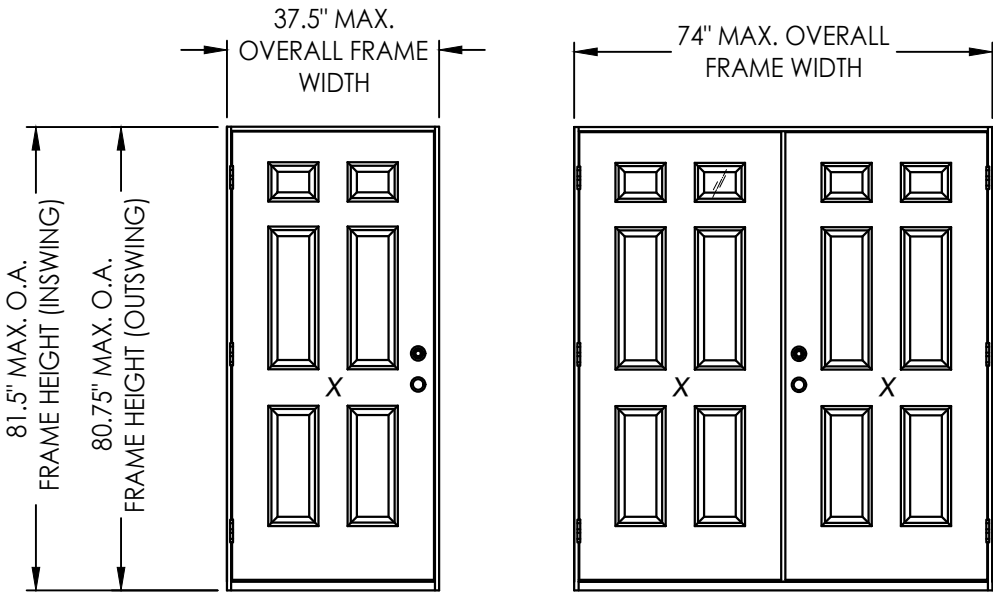


Digitally signed by Lyndon F Schmidt
Date: 2023.08.02 11:28:59 -04'00'

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

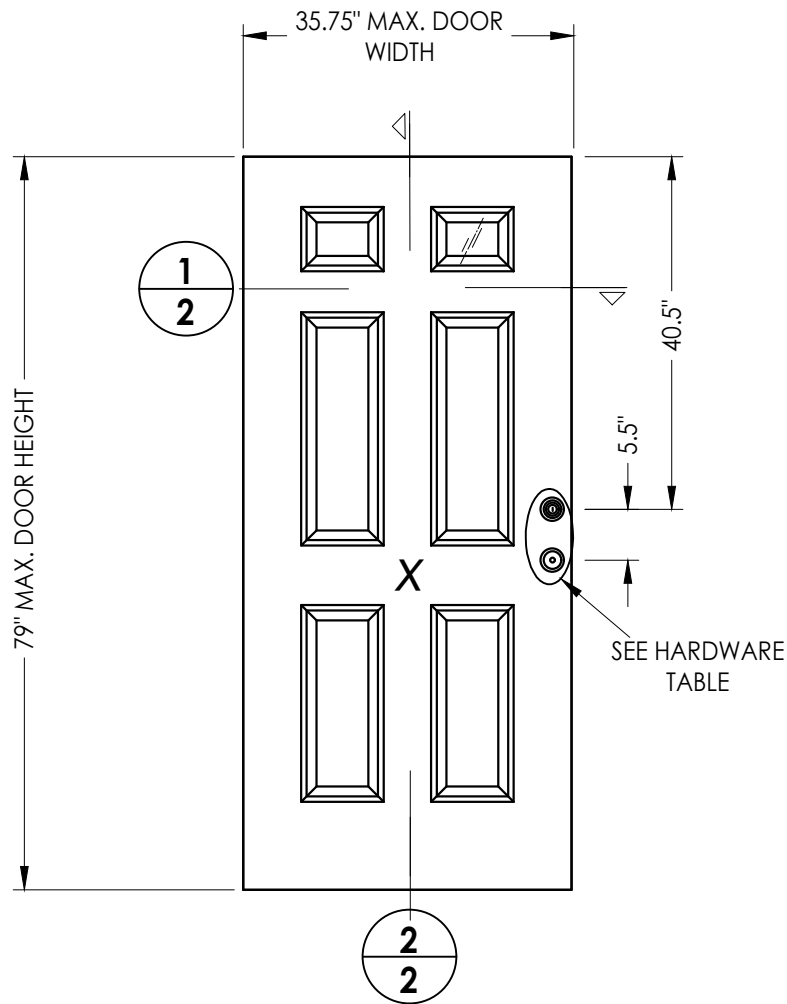
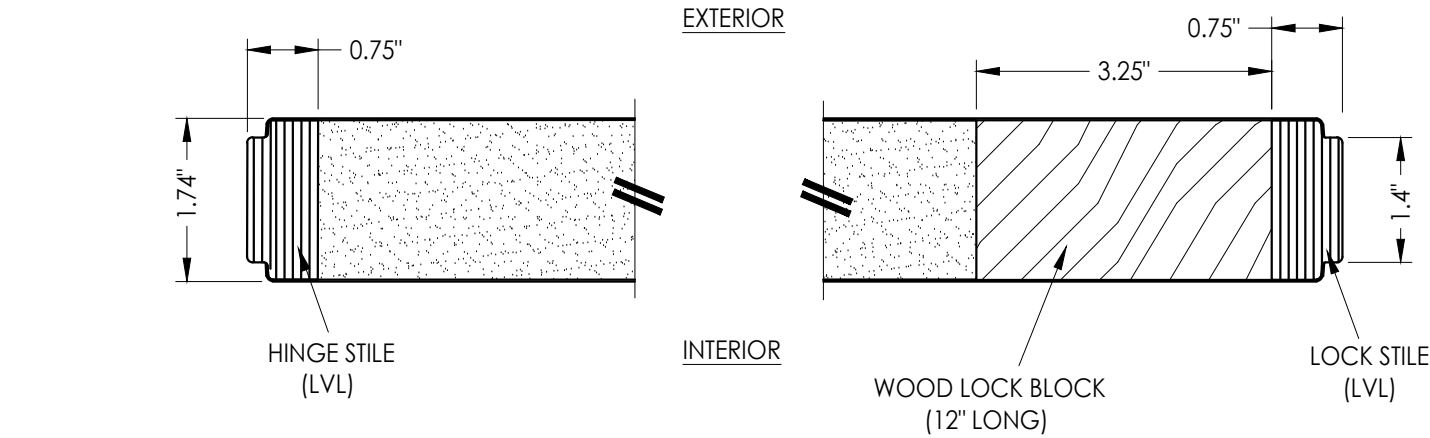
DRAWING NO.: FL-41471.3

SHEET 1 OF 10

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

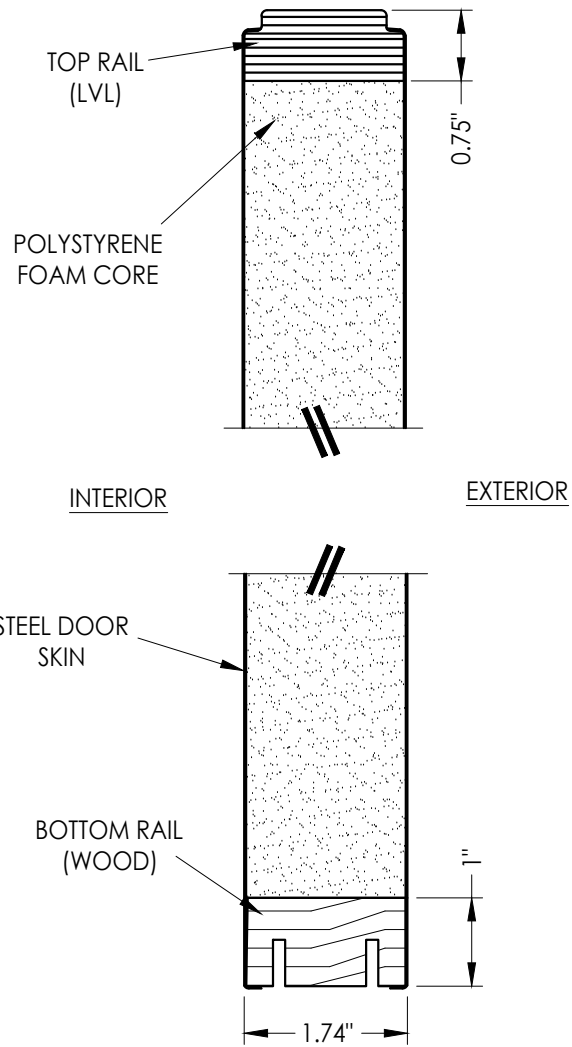
REVISIONS
1 8/02/23 UPDATE TO 8TH ED. (2023) FBC
NO. DATE BY

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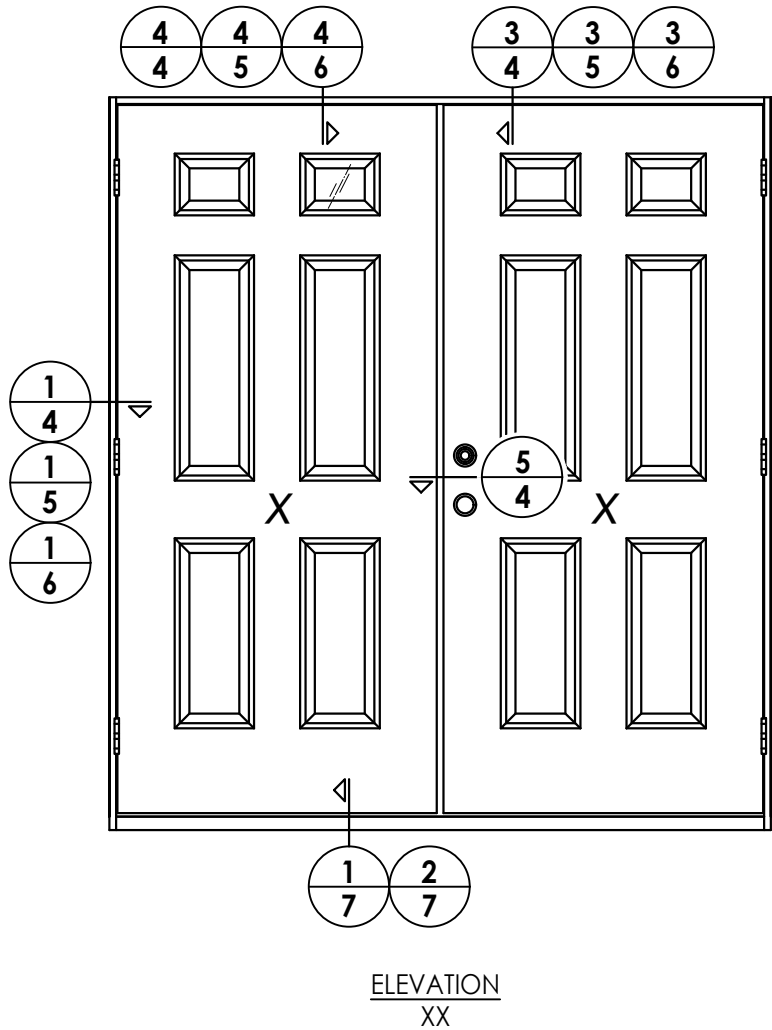
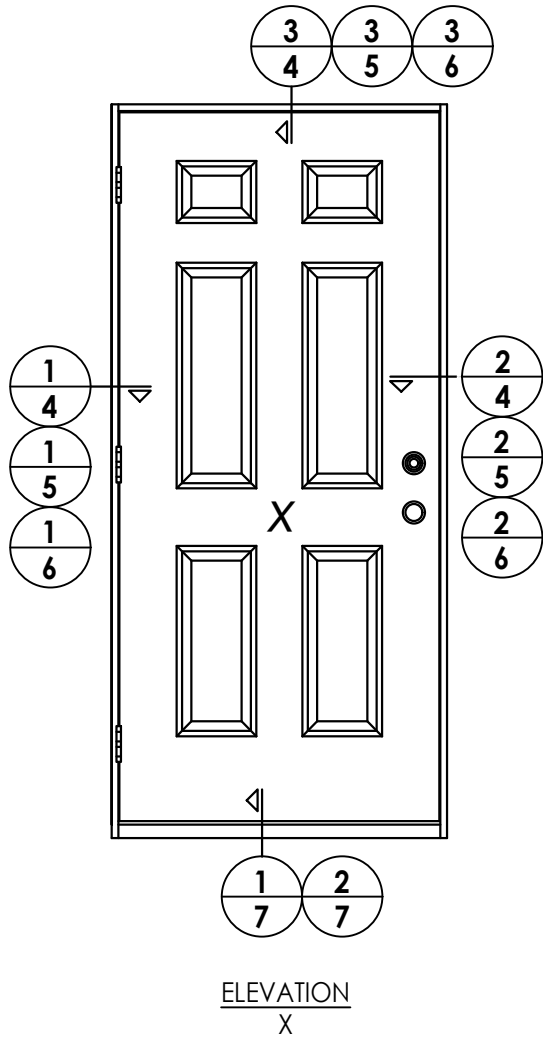
STEEL DOOR SKIN: MIN. 0.020" THK.
CORE MATERIAL: POLYSTYRENE FOAM

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



Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		R.W. 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: DOOR PANEL DETAILS	
		LFS	BY
		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 2 OF 10	

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SCALE: N.T.S.
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DRAWING NO.: FL-41471.3
SHEET 3 OF 10

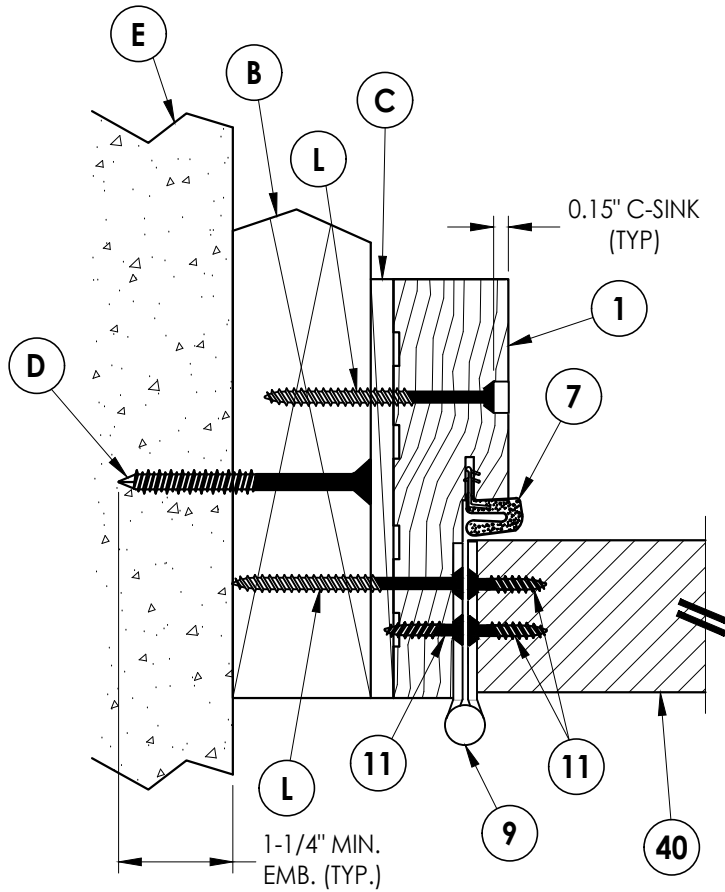
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1	8/02/23	UPDATE TO 8TH ED. (2023) FBC
		LFS
		BY

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

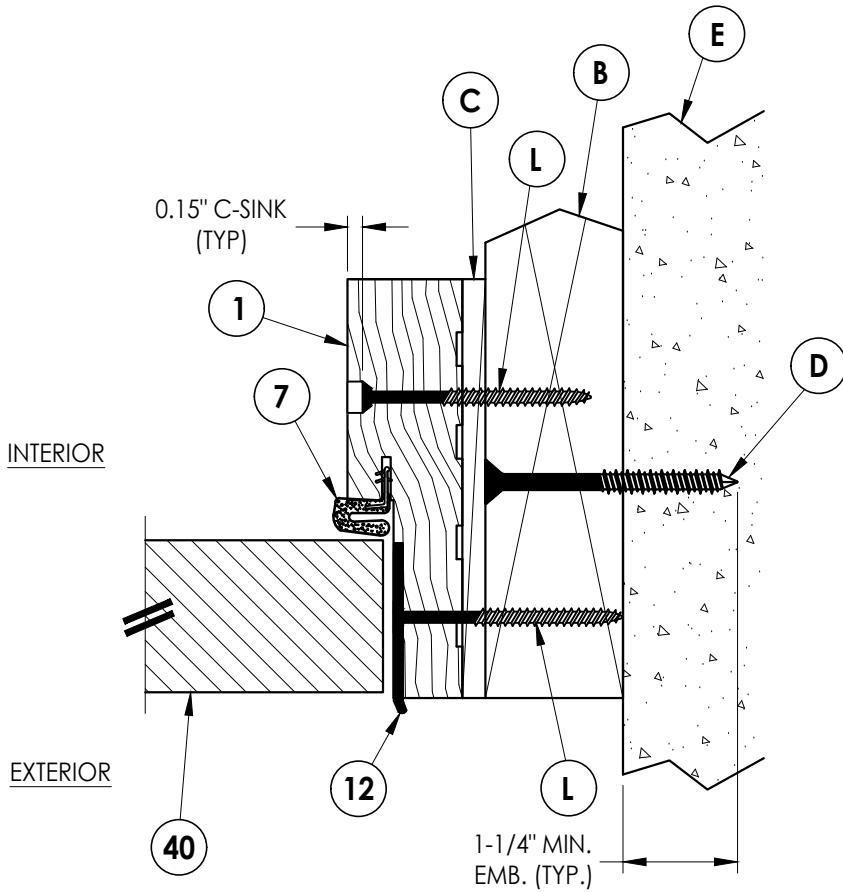
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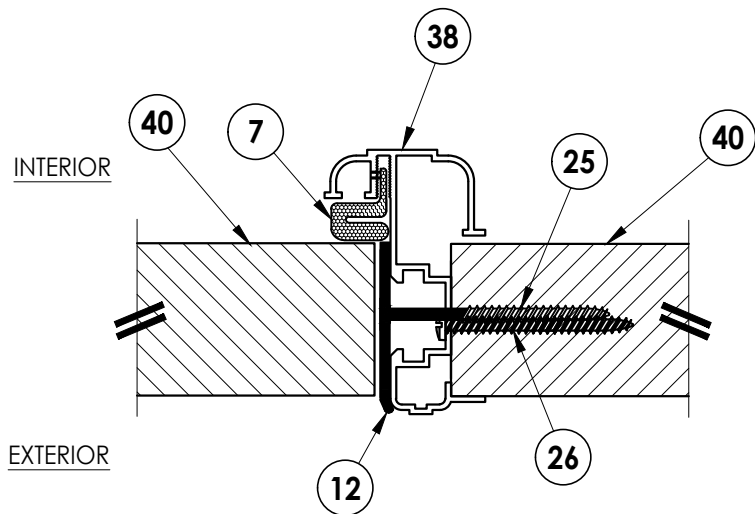
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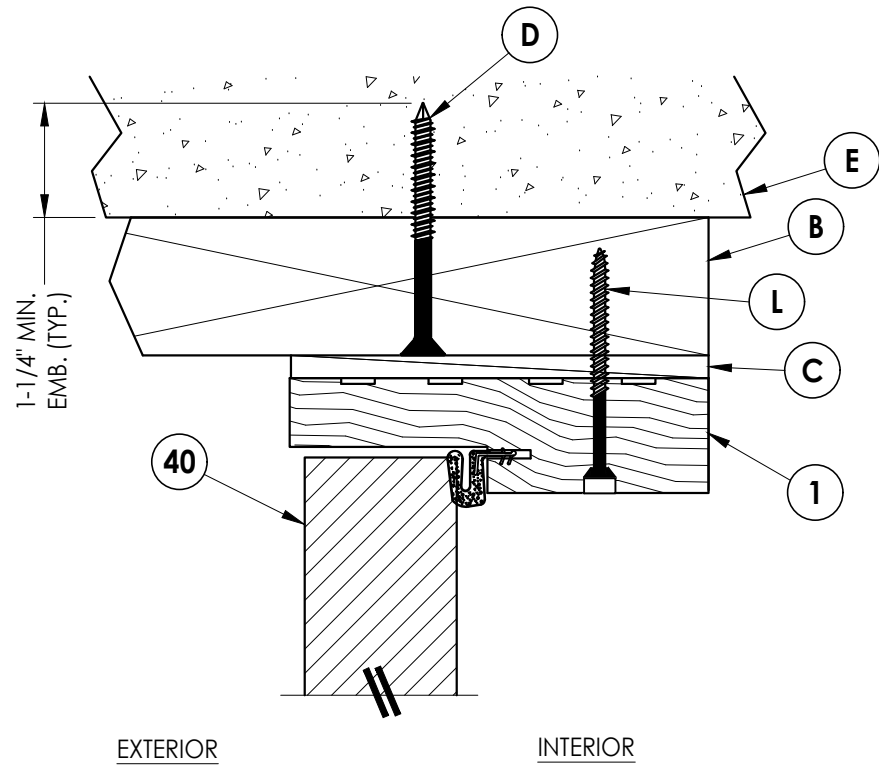
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4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



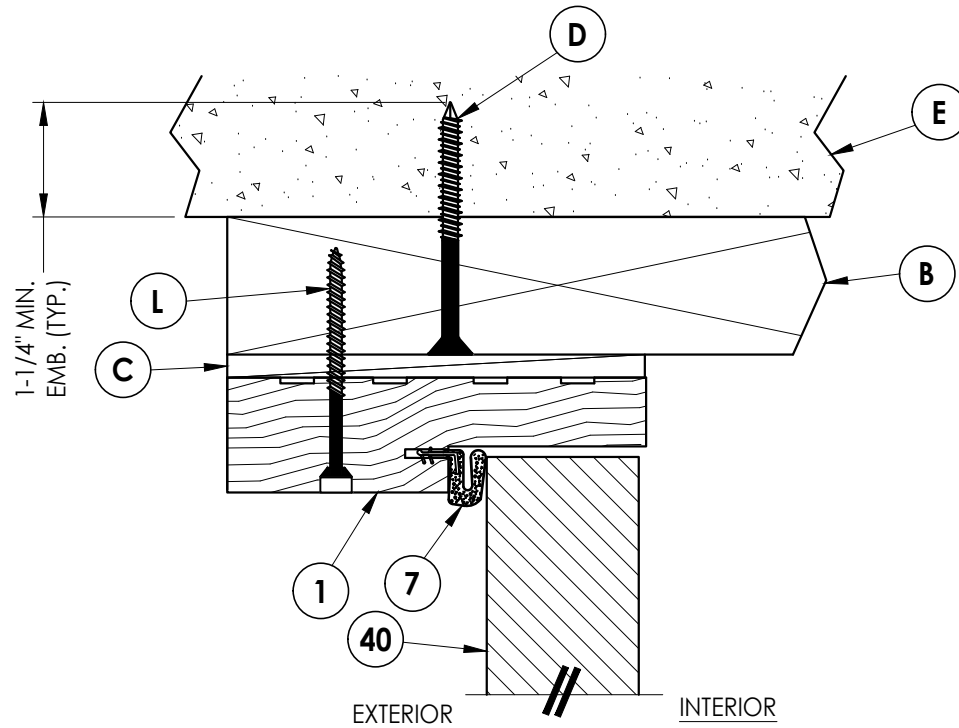
2
4 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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:
STEVE'S & SONS
STEEL 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: 7/06/22

SCALE: N.T.S.

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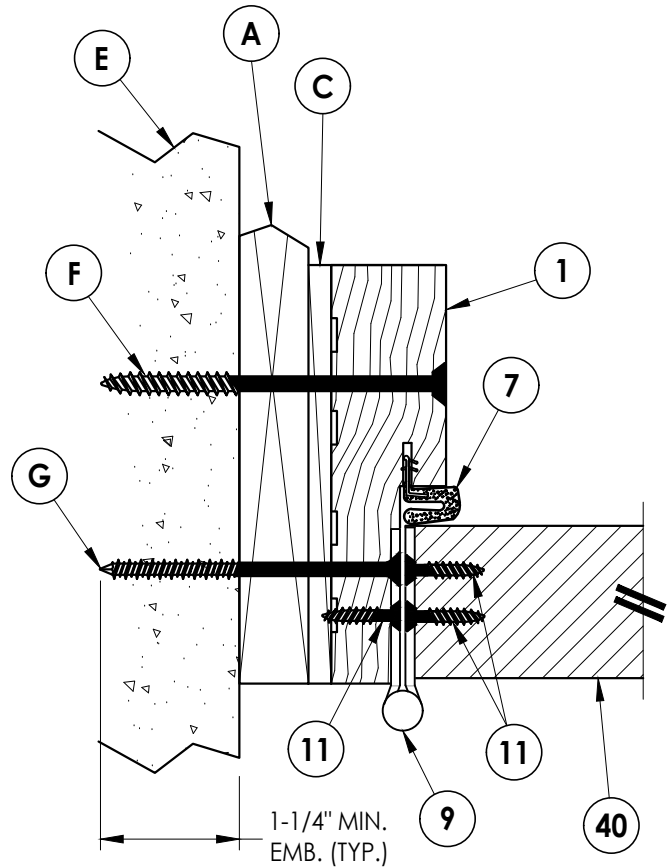
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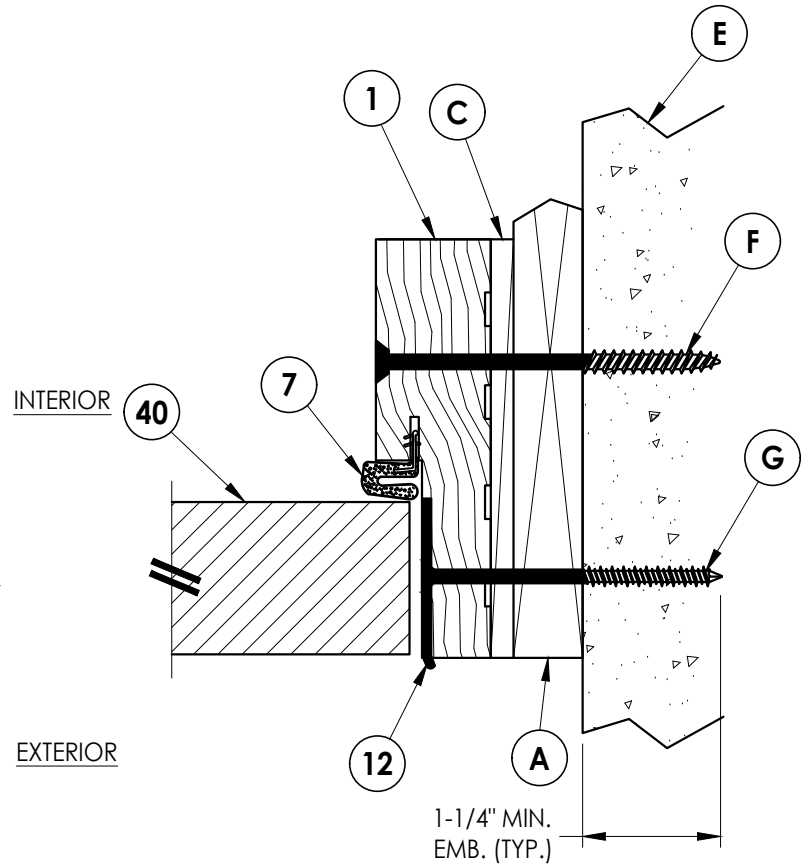
FL-41471.3

SHEET 4 OF 10

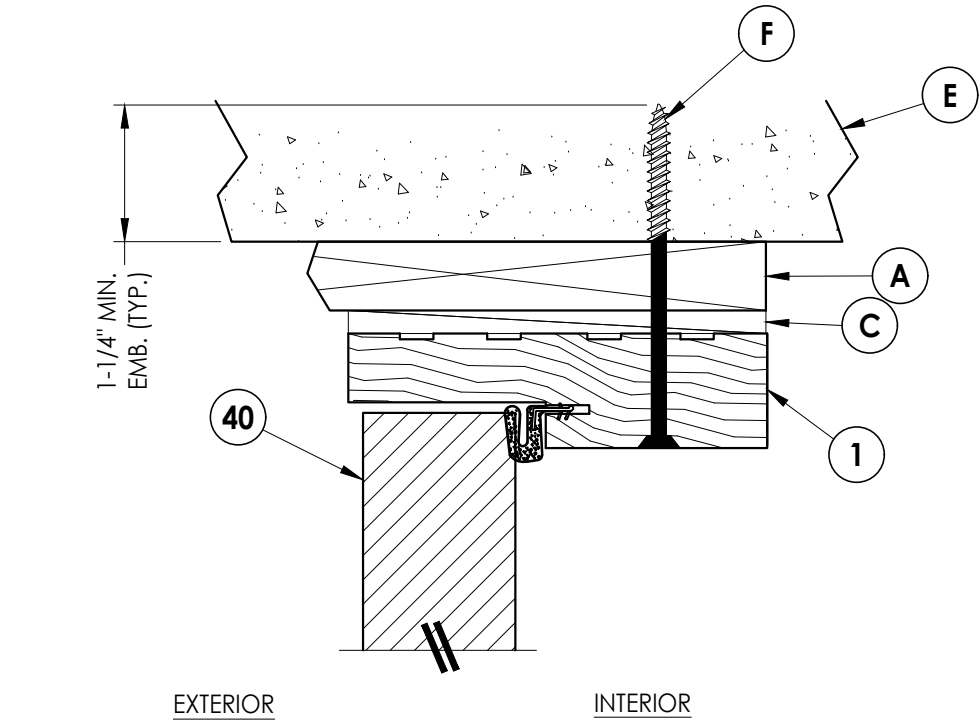
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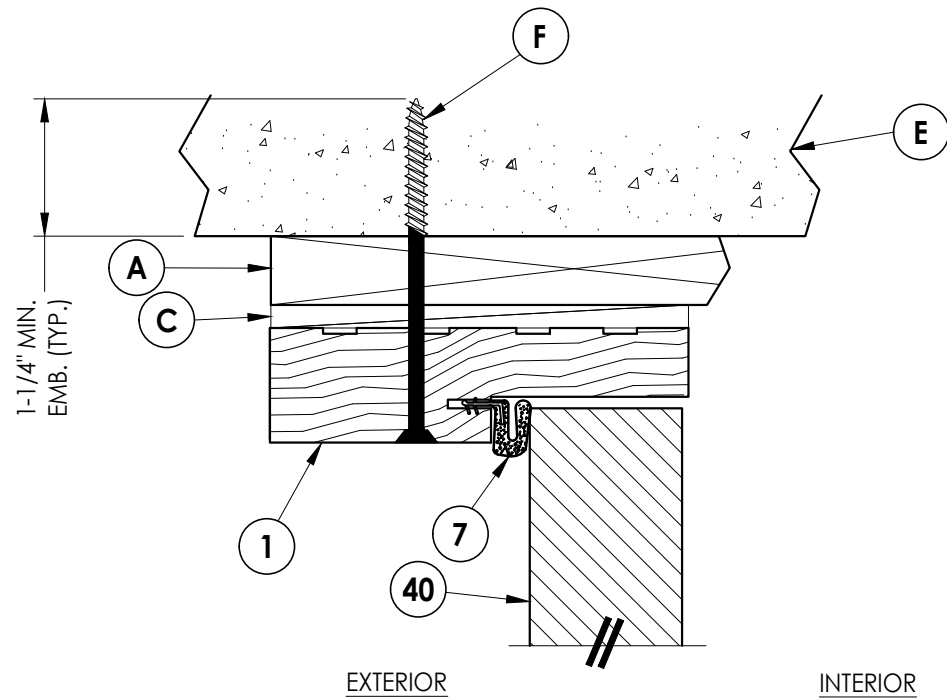
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5 **HORIZONTAL CROSS SECTION**
Shown w/ 1X Buck
Outswing shown (Inswing similar)



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



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



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

DATE: 7/06/22

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-41471.3

SHEET 5 OF 10

PRODUCT:

STEVES & SONS
STEEL DOOR

PART OR ASSEMBLY:

HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

RW

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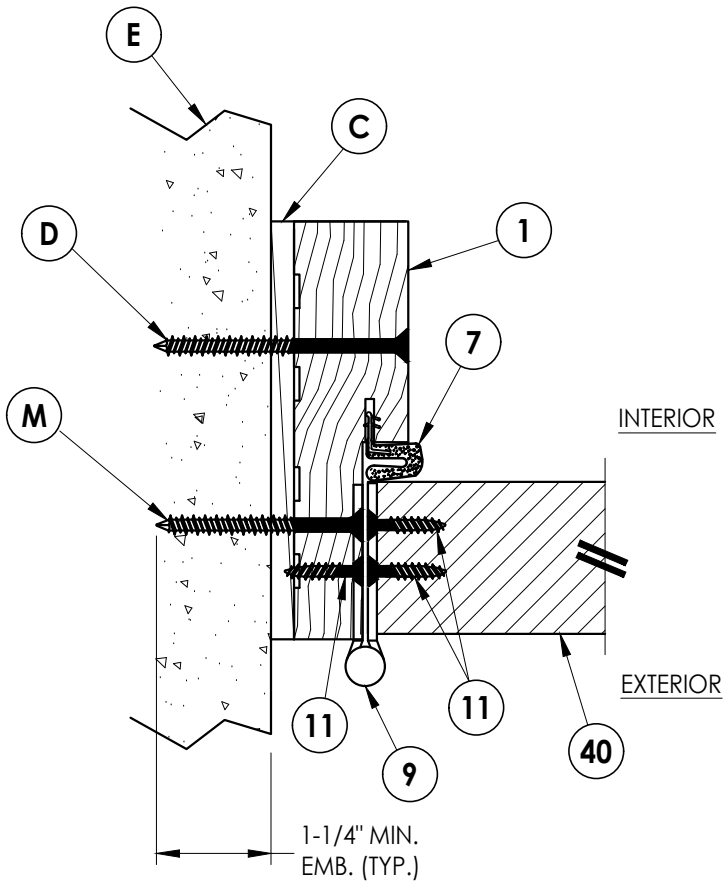
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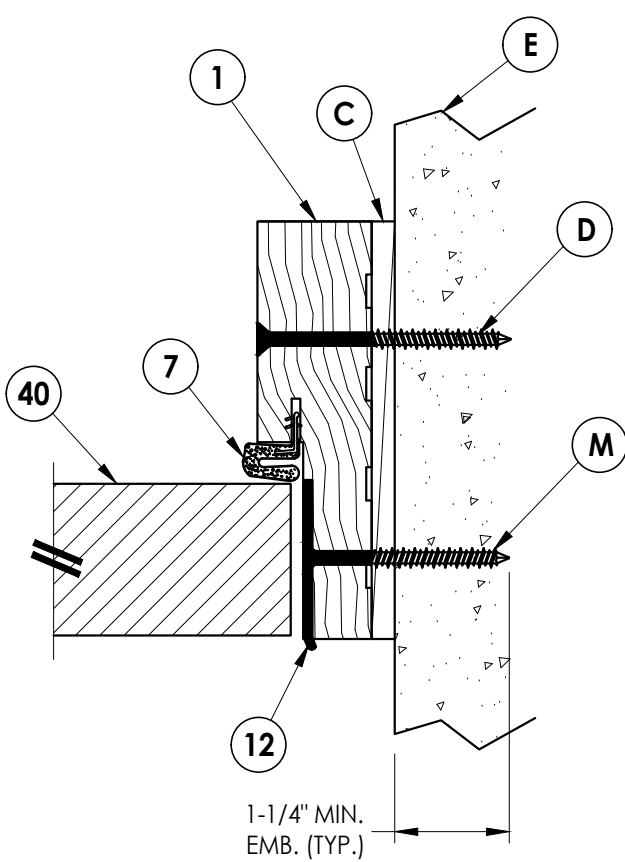
REVISIONS

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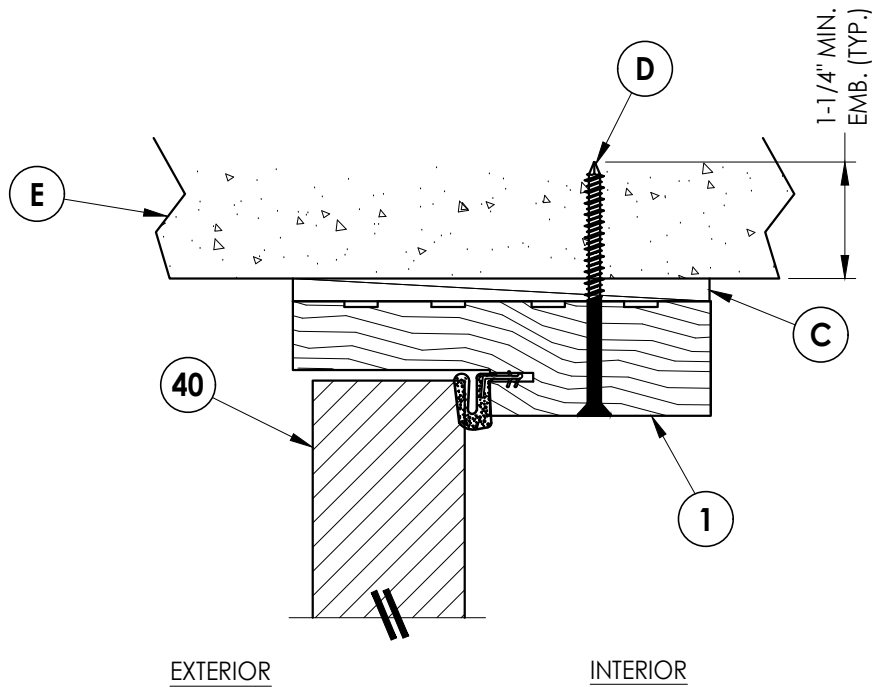
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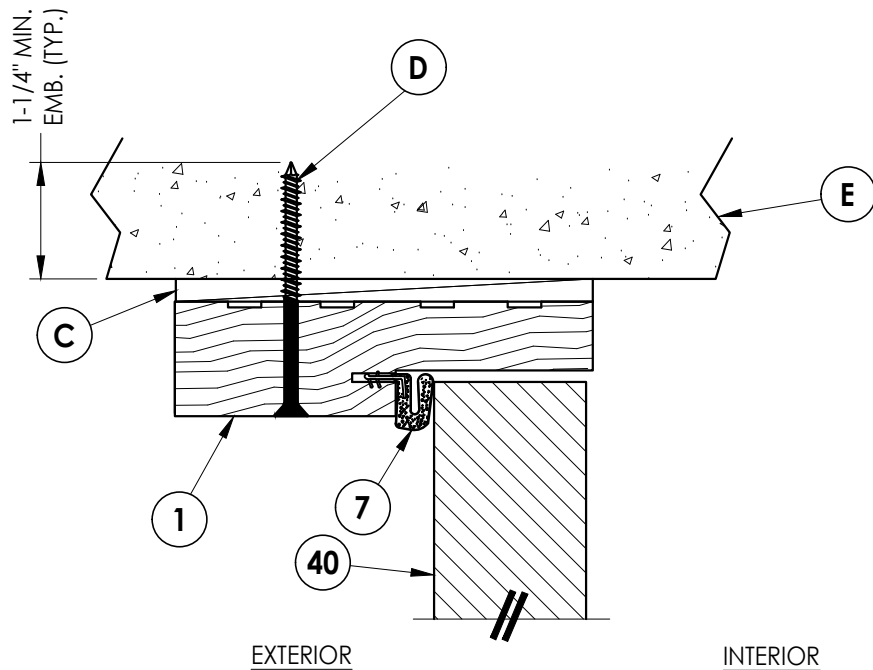
1
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing shown (Inswing similar)



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



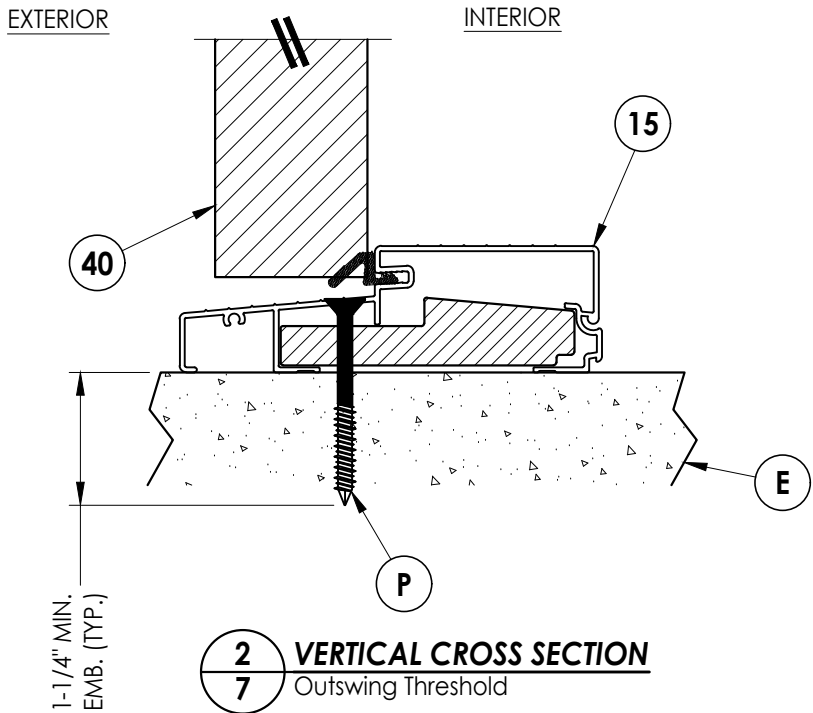
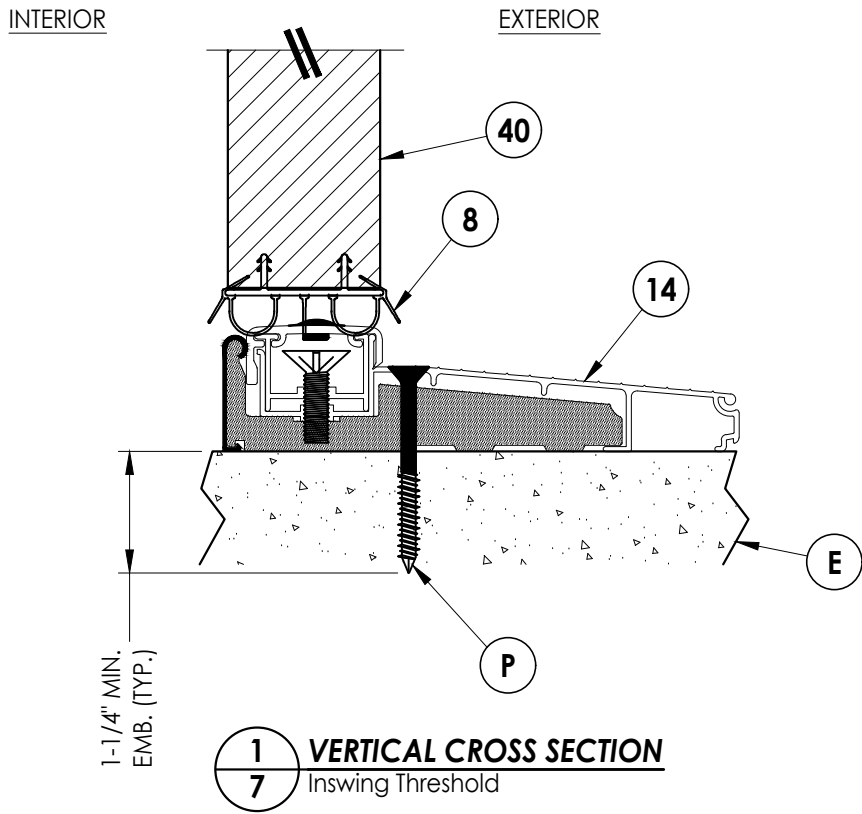
3
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing shown



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

Documents Prepared By:		Lyndon F. Schmidt P.E. No. 43409		R.W. 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: HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)	
				REVISIONS	
				DATE: 7/06/22	
				SCALE: N.T.S.	
				DWG. BY: RW	
				CHK. BY: LFS	
				DRAWING NO.: FL-41471.3	
				SHEET 6 OF 10	
				NO. DATE	
				1 8/02/23 UPDATE TO 8TH ED. (2023) FBC	
				LFS BY	

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DATE: 7/06/22

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DRAWING NO.: FL-41471.3

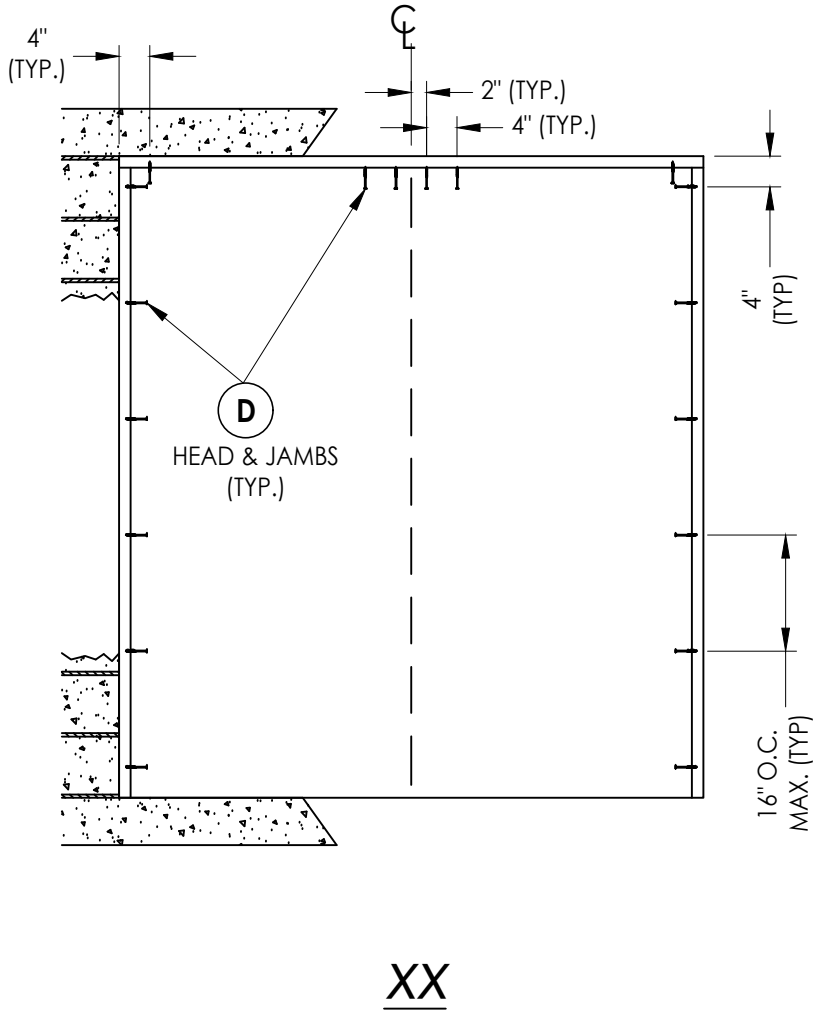
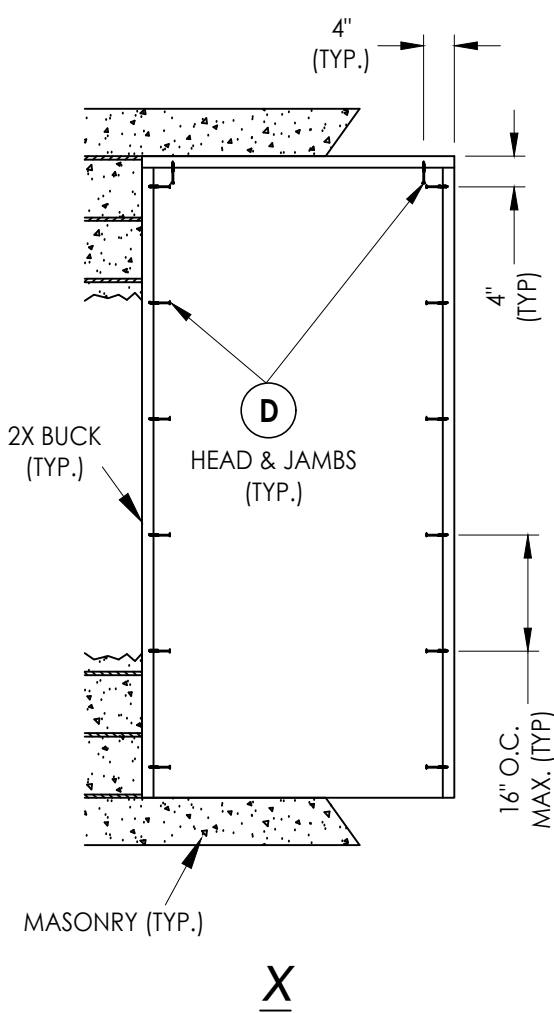
SHEET 7 OF 10

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

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

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

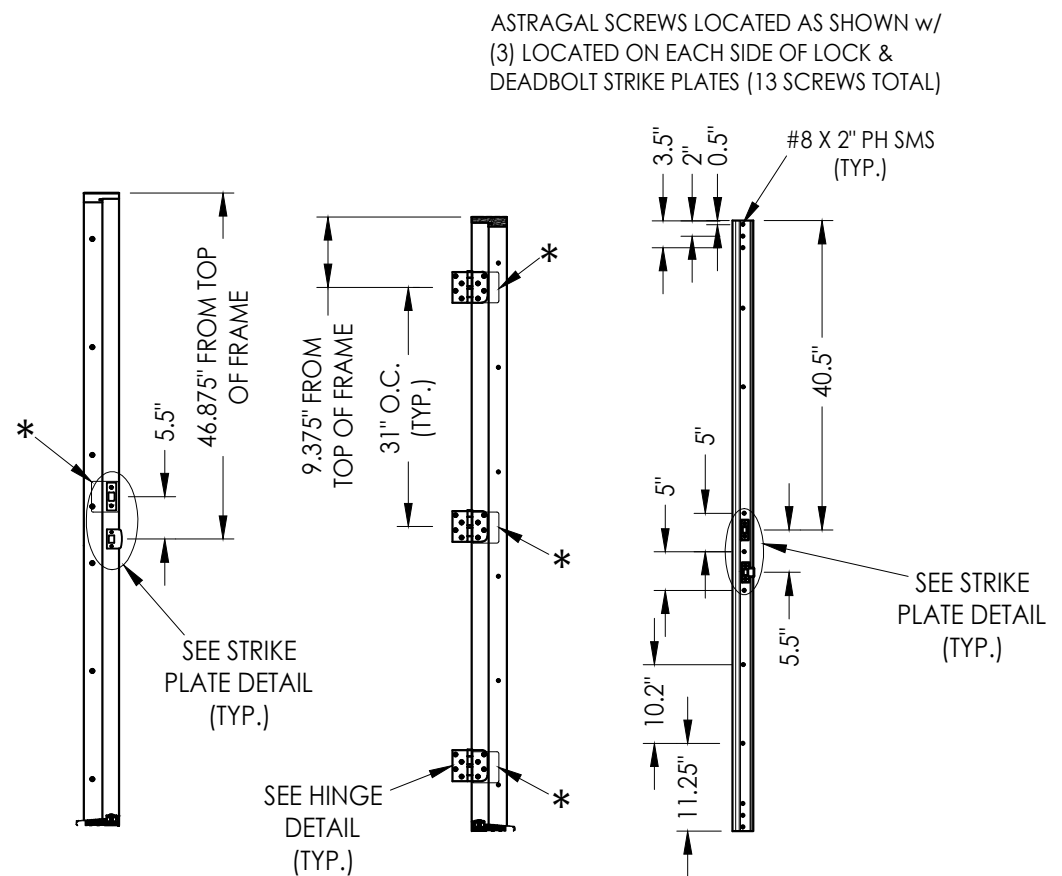
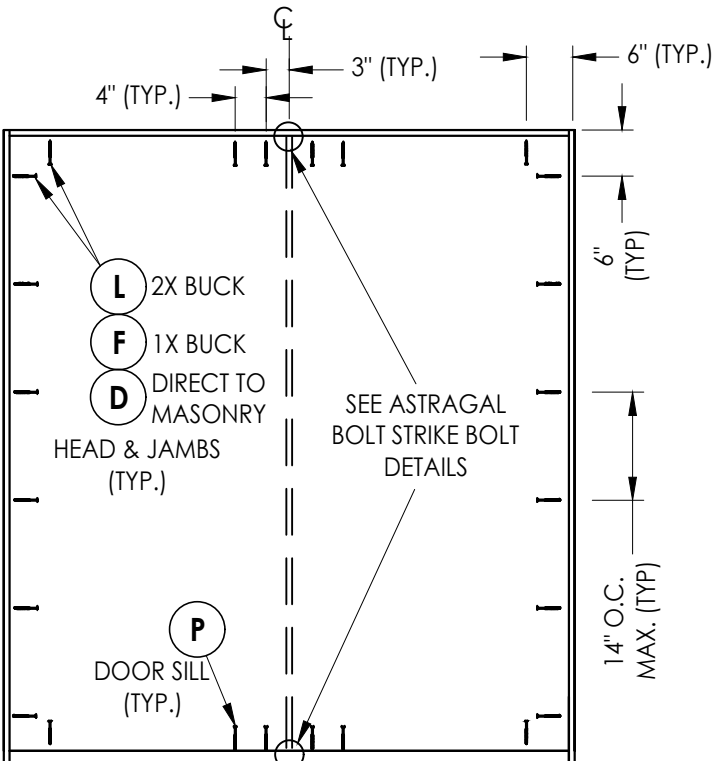
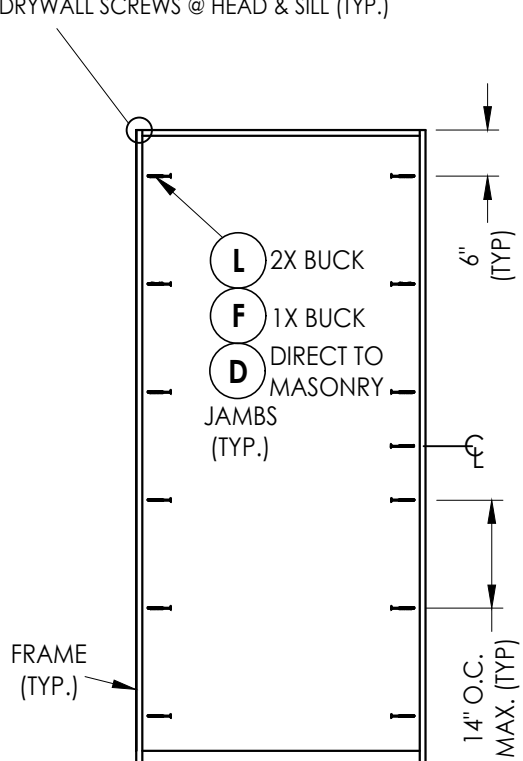
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
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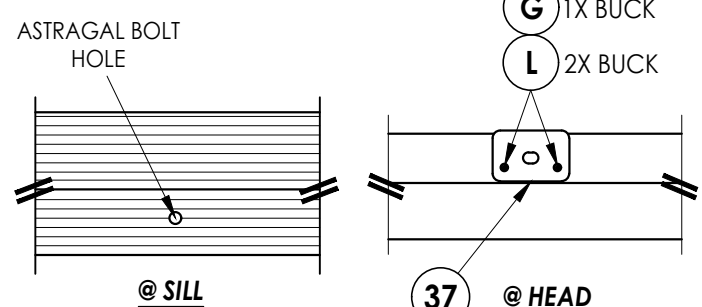
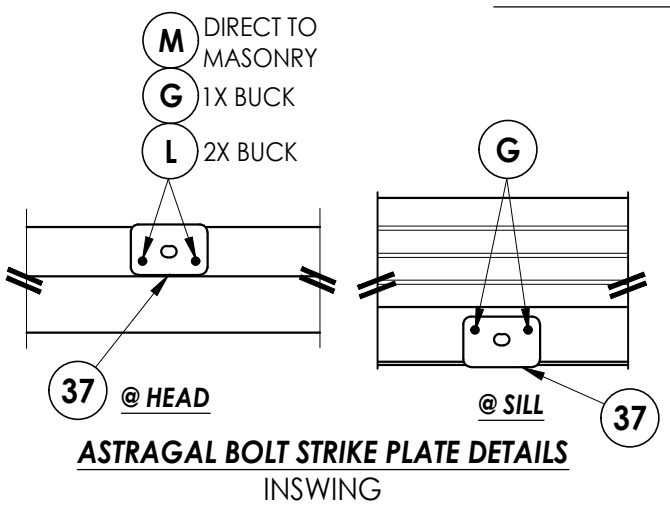
2X BUCK ANCHORING

DATE: 7/06/22		PRODUCT:		STEVES & SONS STEEL DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					
SCALE: N.T.S.		PART OR ASSEMBLY:		BUCK ANCHORING		RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813					
DWG. BY: RW		NO.		8/02/23		UPDATE TO 8TH ED. (2023)		FBC		LFS	
CHK. BY: LFS		DATE								BY	
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.)

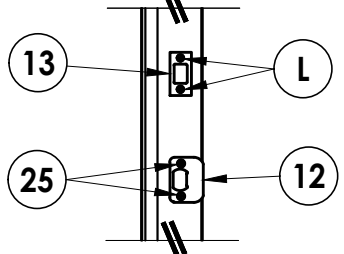


X
FRAME ANCHORING

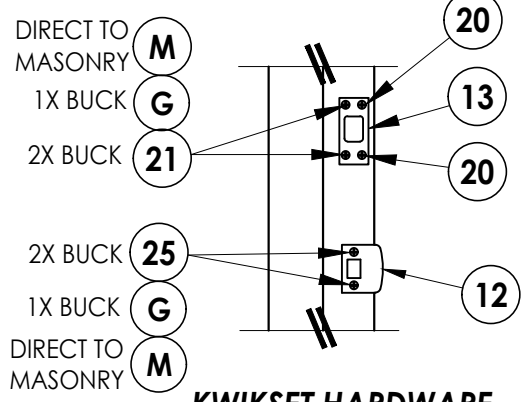


ASTRAGAL BOLT STRIKE PLATE DETAILS
OUTSWING

XX
STRIKE PLATE DETAIL

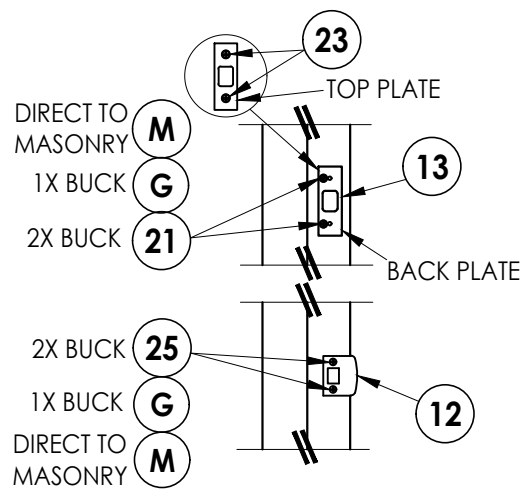


STRIKE PLATE DETAIL
DOUBLE DOOR

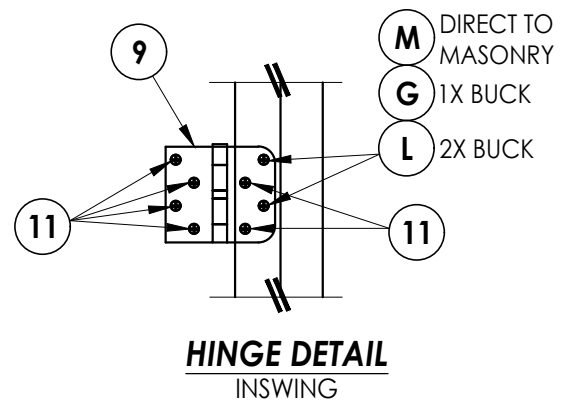


KWIKSET HARDWARE
SINGLE DOOR

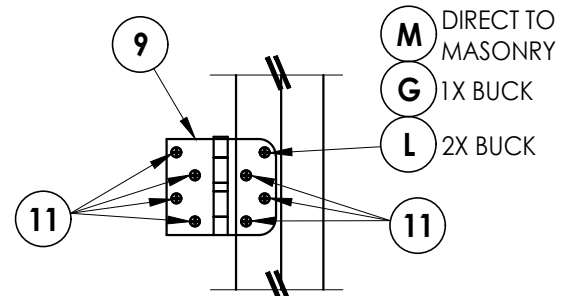
HARDWARE DETAILS



SCHLAGE HARDWARE
SINGLE DOOR



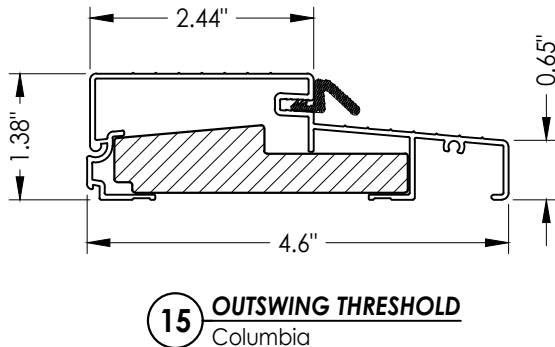
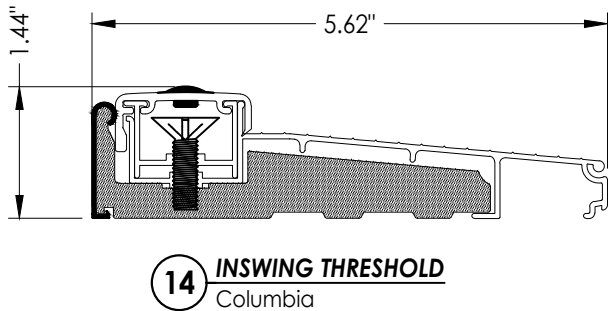
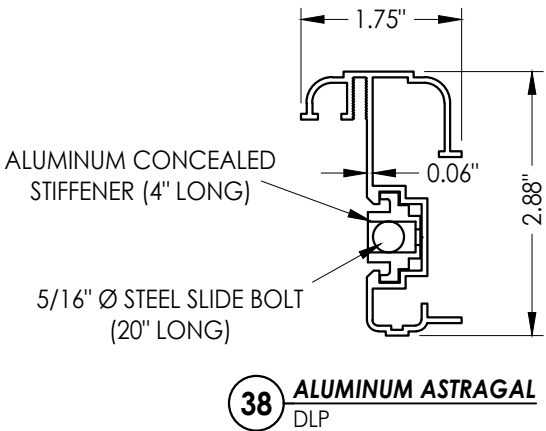
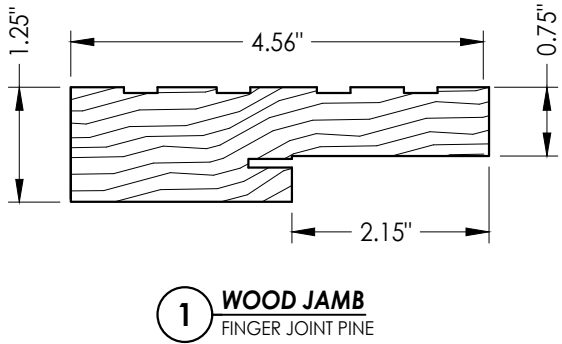
HINGE DETAIL
INSWING



HINGE DETAIL
OUTSWING

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 STEEL DOOR		
	PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS		
		LFS	BY
		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			

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:

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"

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.

[illegible]