

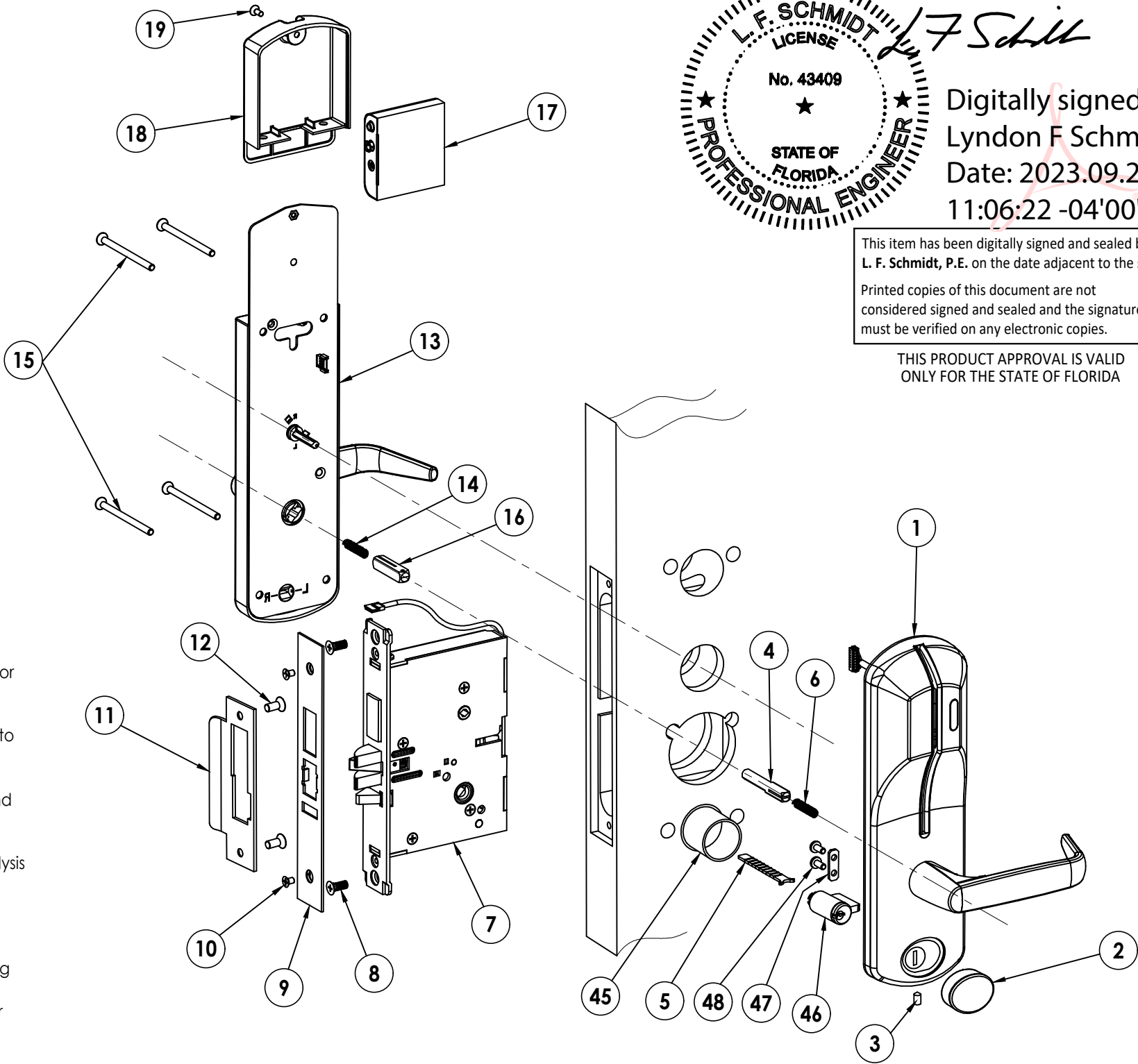


SERIES "Solitaire 710-II"
ELECTRONIC MORTISE LOCKS
"IMPACT"

GENERAL NOTES

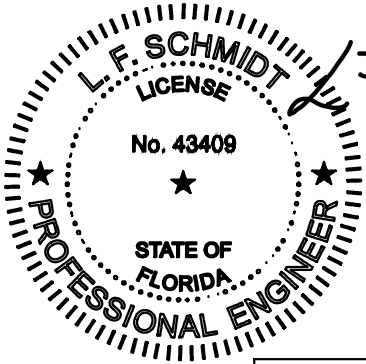
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. This product has been tested in the door panels as specified in this approval. Substitution into similar product may be approved for use by the local Authority Having Jurisdiction. In all cases, the steel door used must possess a comparable current Florida Statewide product approval. The door panel size and design pressure (DP) rating shall not exceed the sizes and DP ratings shown in this approval or the steel side hinged swing door approval being used.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations meet water infiltration requirements for "HVHZ".
8. Inswing configurations do not meet the water infiltration requirements for the "HVHZ". Inswing units and item #43 shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
9. All steel shall be protected as specified in Section 2222.6 of the FBC.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Lock details, design pressures and general notes
2	Door panel details
3	Horizontal and vertical cross sections
4	Buck and frame anchoring
5	Bill of materials and components



MAX FRAME DIMENSION	LOCK TYPE	DOOR PANEL	DESIGN PRESSURE (PSF)			
			INSWING		OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
39" x 85"	"Solitaire 710-II"	TRU-TECH STEEL DOOR	+60.0	-65.0	+65.0	-65.0

Note: The outswing unit requires the use of the automatic deadbolt option.



Digitally signed by
Lyndon F Schmidt
Date: 2023.09.27
11:06:22 -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

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

PRODUCT: KABA

DATE: 9/11/09

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-13061.2

SHEET 1 OF 5

Part or Assembly:
LOCK DETAILS, DESIGN PRESSURES
AND GENERAL NOTES

REVISIONS

6 8/31/23 UPDATE TO 8TH ED. (2023) FBC

5 9/28/20 UPDATE TO 7TH ED. (2020) FBC

4 2/21/19 ADDED GENERAL NOTE #5

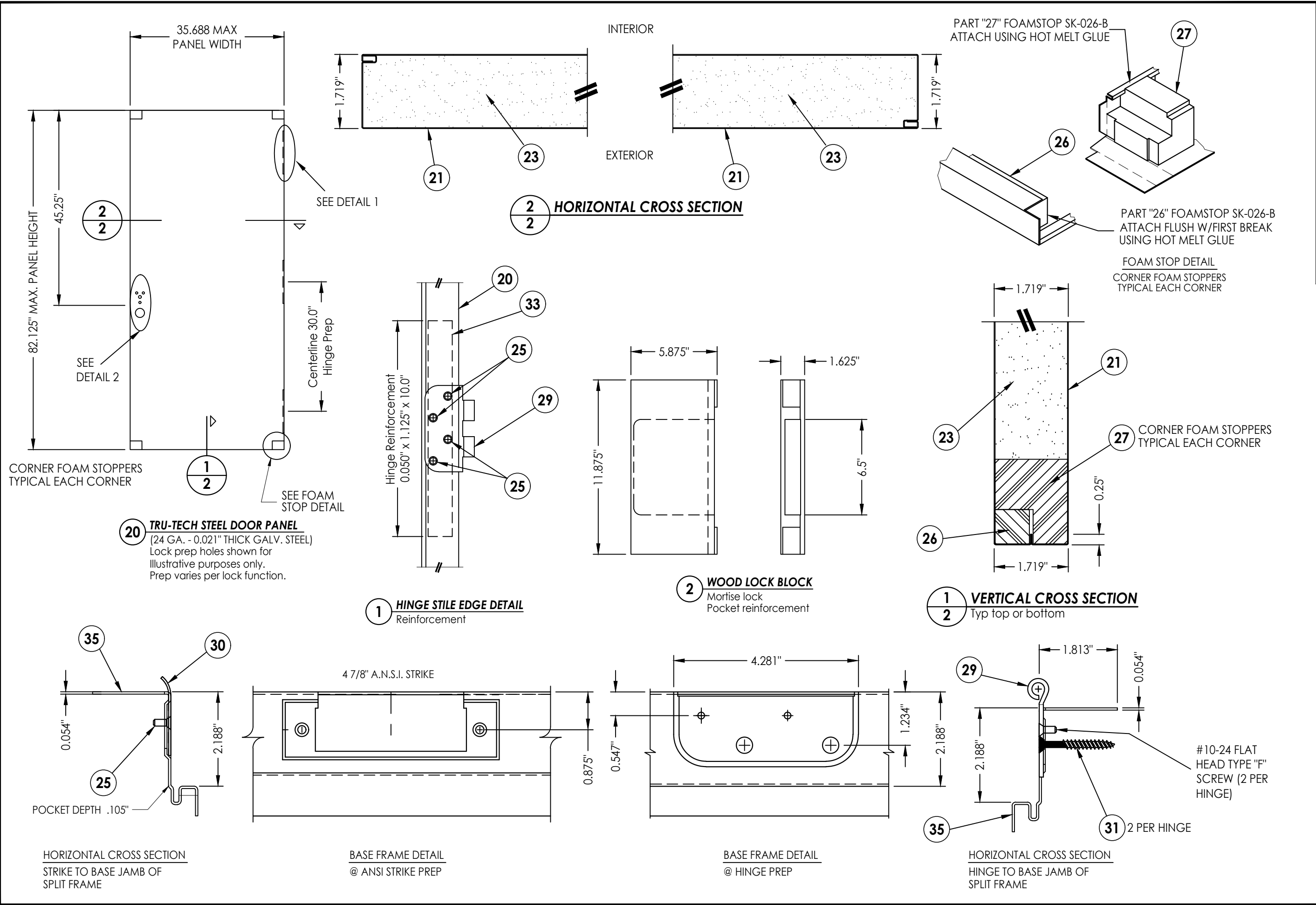
3 10/19/17 UPDATE TO 6TH ED. (2017) FBC

2 8/31/15 UPDATE TO 5TH ED. (2014) FBC

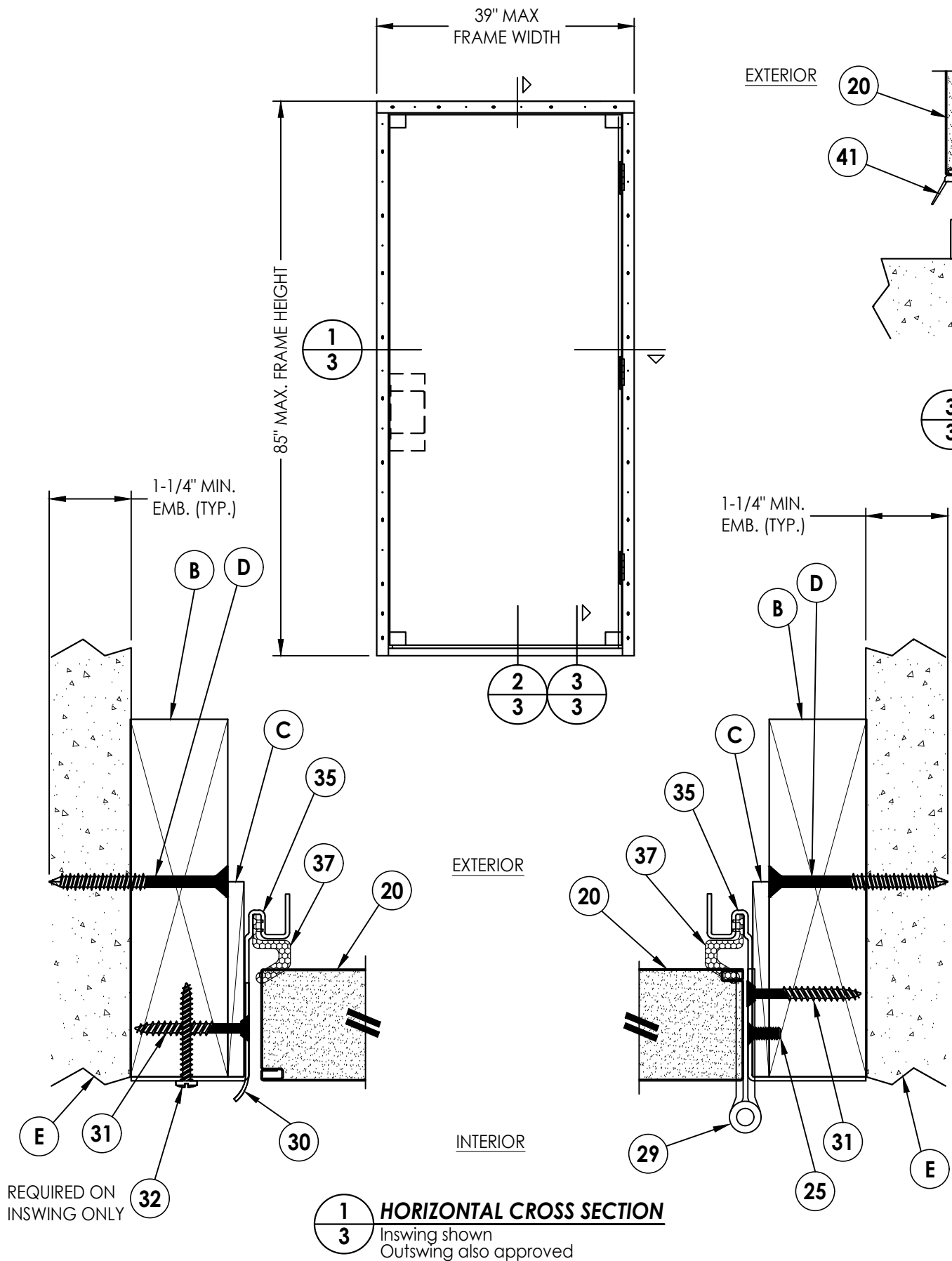
1 2/12/14 UPDATE TO 2010 FBC

NO. DATE

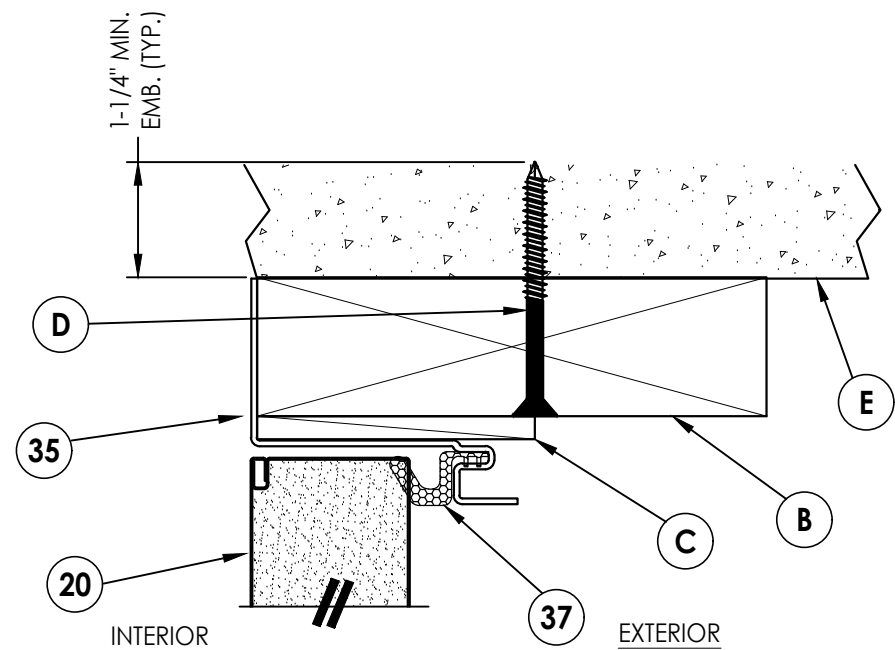
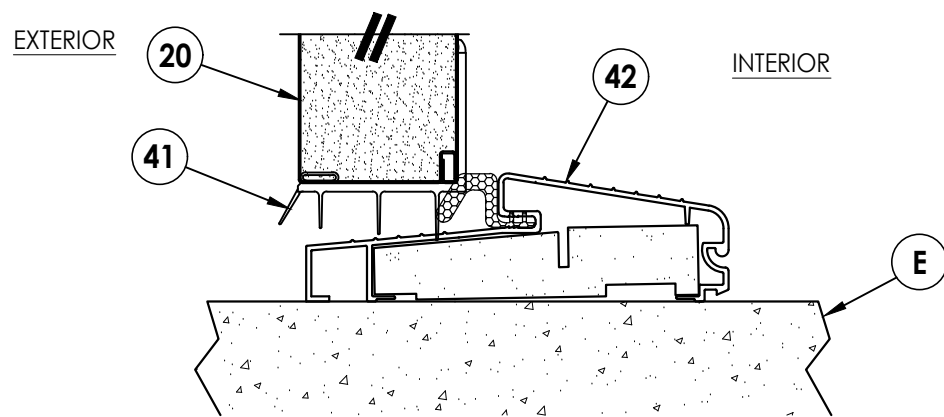
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



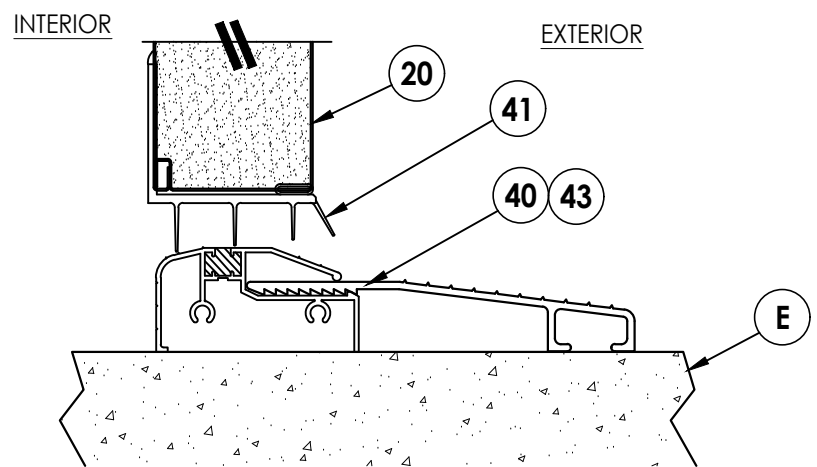
DATE: 9/11/09					REVIEWS				
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-13061.2									
SHEET 2 OF 5									
6	8/31/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	PRODUCT: KABA				
5	9/28/20	UPDATE TO 7TH ED. (2020)	FBC	LFS					
4	2/21/19	ADDED GENERAL NOTE #5		LFS					
3	10/19/17	UPDATE TO 6TH ED. (2017)	FBC	LFS					
2	8/31/15	UPDATE TO 5TH ED. (2014)	FBC	LFS					
1	2/12/14	UPDATE TO 2010 FBC		LFS	PART OR ASSEMBLY: DOOR PANEL DETAILS				
NO.	DATE			BY					
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3 **VERTICAL CROSS SECTION**
3 Outswing



2 VERTICAL CROSS SECTION
3 Inswing



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1	2/12/14	UPDATE TO 2010 FBC		LFS
NO.	DATE			BY
				REVISIONS

DATE: 9/11/09

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: *LFS*

DRAWING NO.:

FL-13061.2

SHEET 3 OF 5

PRODUCT:

KABA

TEST OR ASSEMBLY:
**HORIZONTAL AND VERTICAL
CROSS SECTIONS**

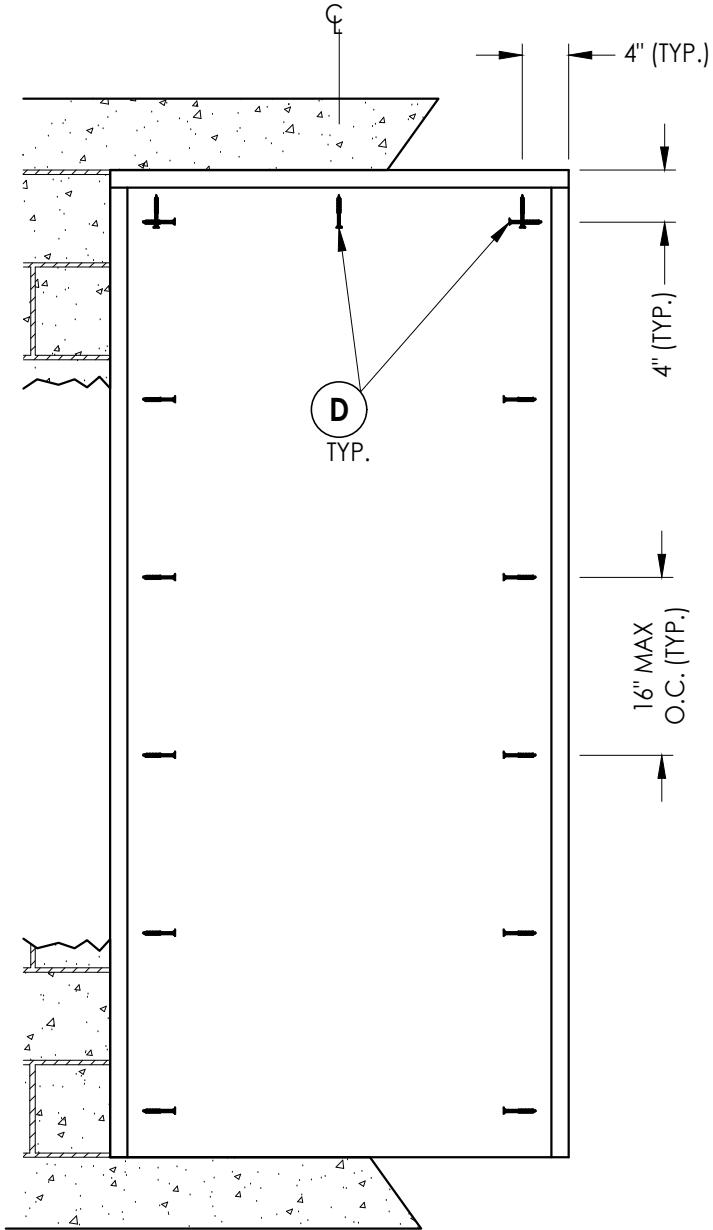
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RM BUILDING CONSULTANTS, INC.

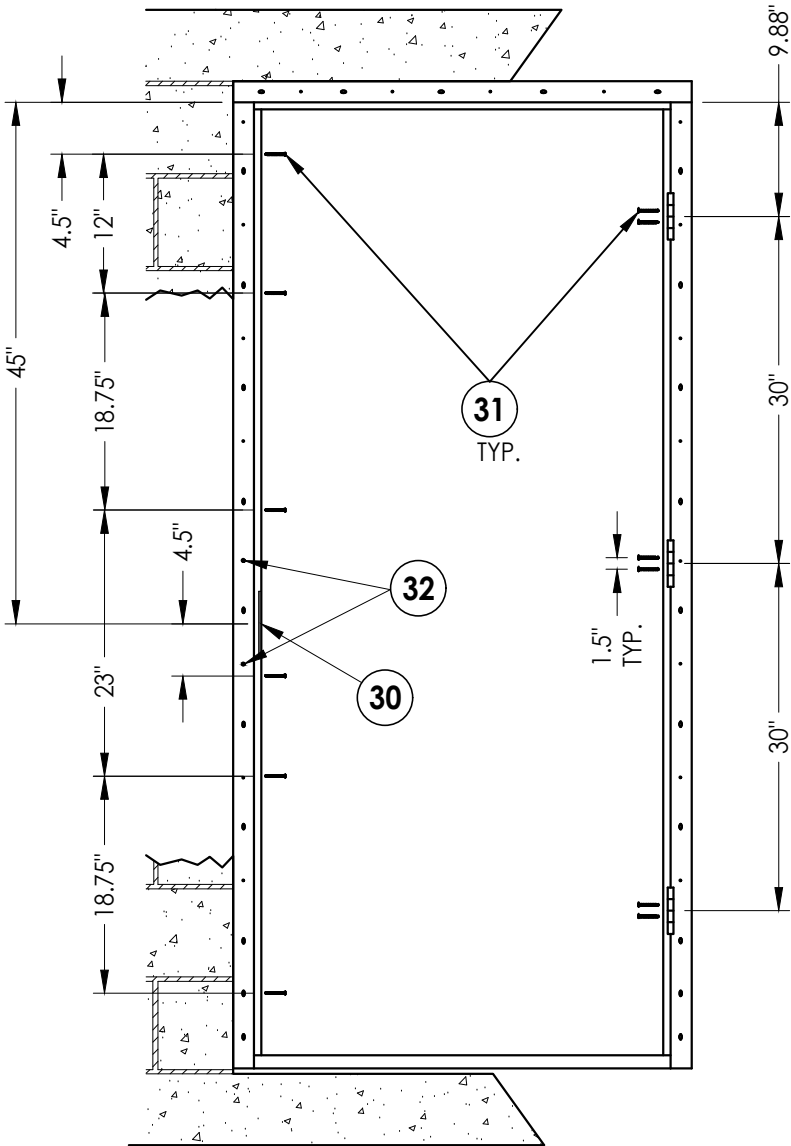
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Phone No.: 813.659.9197

FBPE Registry No. 9813

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BUCK ANCHORING



FRAME ANCHORING

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"

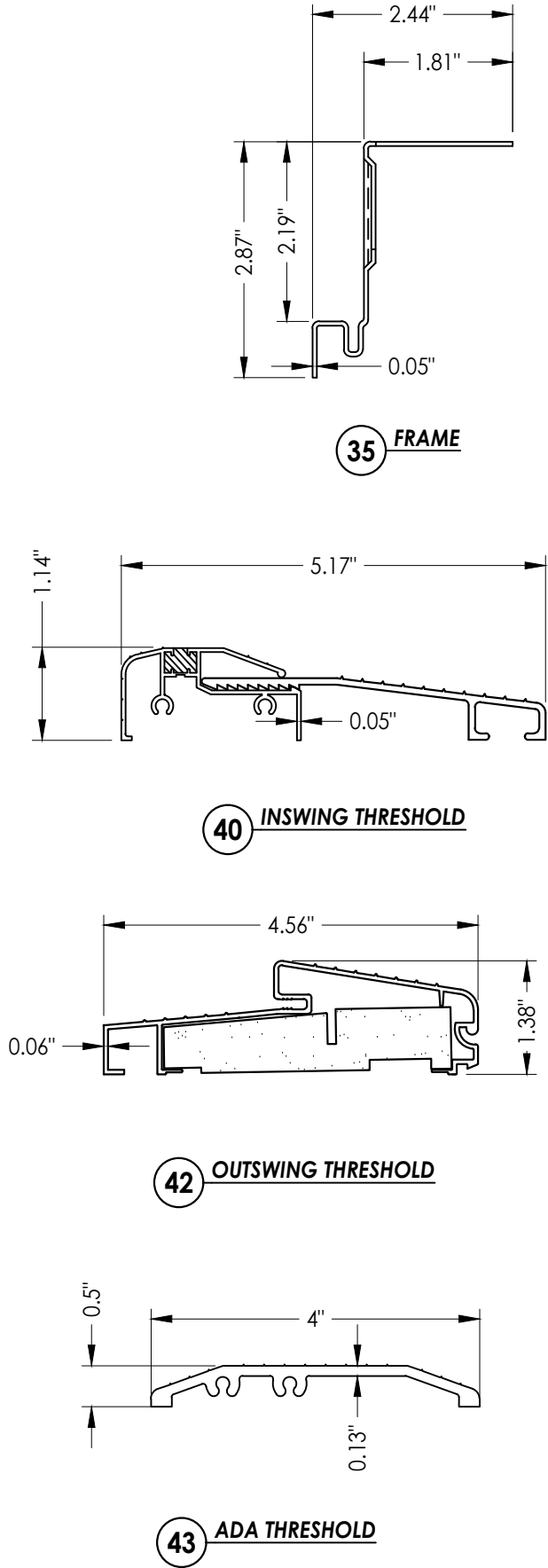
WOOD SCREW INSTALLATION NOTES:

- 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: KABA					PART OR ASSEMBLY: BUCK AND FRAME ANCHORING				
6	8/31/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS				
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3	10/19/17	UPDATE TO 6TH ED. (2017)	FBC	JK					
2	8/31/15	UPDATE TO 5TH ED. (2014)	FBC	LFS					
1	2/12/14	UPDATE TO 2010 FBC		LFS					
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SHEET 4 OF 5									

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" 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
1	EXTERIOR ESCUTCHEON	-
2	MEDALLION	ZAMAK 3
3	SET SCREW 6-32 X 3/8"LG	STEEL
4	SQUARE SPINDLE	STEEL
5	TAIL PIECE (OPTIONAL)	STEEL
6	COMPRESSION SPRING	MUSIC WIRE
7	MORTISE LOCK BODY WITH DEADBOLT	STEEL
8	MACHINE SCREW 12-24 X 1/2" LG	STAINLESS STEEL
9	MORTISE FACE PLATE	STAINLESS STEEL
10	MACHINE SCREW 8-32 X 1/4" LG	BRASS
11	STRIKE PLATE	STAINLESS STEEL
12	MACHINE SCREW 12-24 X 1/2" LG	STAINLESS STEEL
13	INSIDE ESCUTCHEON	-
14	COMPRESSION SPRING	MUSIC WIRE
15	MACHINE SCREW 10-24	STEEL
16	SQUARE SPINDLE	STEEL
17	BATTERY PACK	-
18	BATTERY COVER	ABS
19	CAP SCREW 6-32 X 3/8" LG	STEEL
20	TRU-TECH STEEL DOOR PANEL	-
21	DOOR SKIN (0.022" THK. STEEL, Fy = 35,300 PSI MIN.)	STEEL
23	FOAM CORE: 2.0 lbs/FT DENSITY, Baytherm 863	POLYURETHANE
25	#10-24 PFH MACHINE SCREW	STEEL
26	PART "A" FOAMSTOP SK-026-B	POLYURETHANE
27	PART "B" FOAMSTOP SK-026-B	POLYURETHANE
29	HINGE - 4" x 4"	STEEL
30	STRIKE PLATE	STEEL
31	#10 X 1.75" PFH WS (1-3/8" MIN. EMBEDMENT)	STEEL
32	#10 X 1.50" PPH WS (1-3/8" MIN. EMBEDMENT)	STEEL
33	HINGE AND REINFORCEMENT	STEEL
35	FRAME	STEEL
37	COMPRESSION WEATHERSTRIPPING QLON QDS 650	FOAM
40	THRESHOLD INSWING	ALUM
41	DOOR SWEEP	-
42	OUTSWING THESHOLD	ALUM/COMP
43	ADA THESHOLD	ALUM
45	OVERRIDE TUBE (OPTIONAL)	STEEL
46	CYLINDER CORE (OPTIONAL)	BRASS
47	CORE PLATE (OPTIONAL)	STEEL
48	MACHINE SCREW 8-32 X 9/16" LG (OPTIONAL)	STEEL



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SHEET 5 OF 5							