



6605 Flotilla Street
City of Commerce
CA 90040

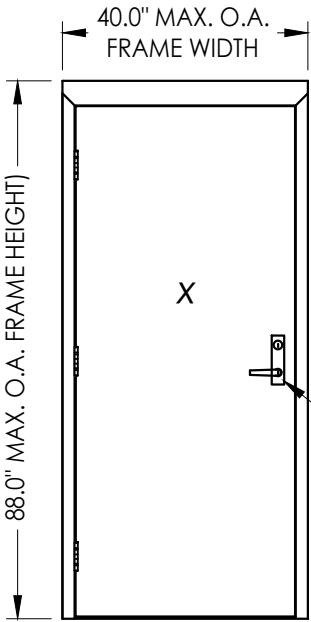
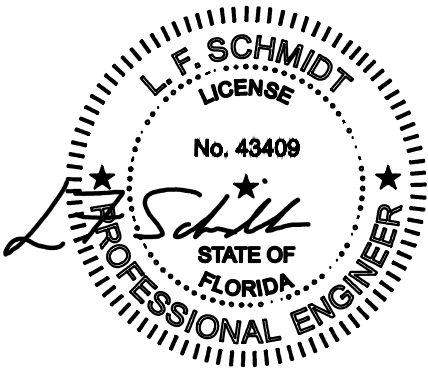
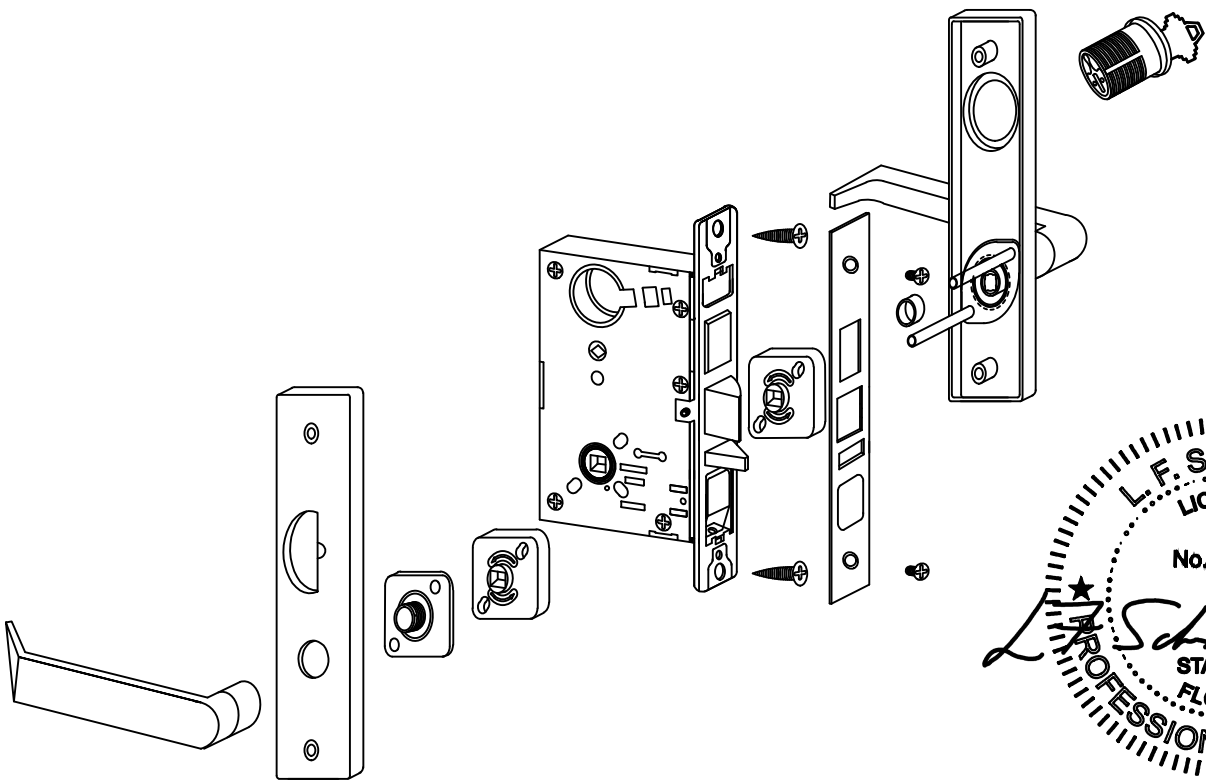
"M SERIES" MORTISE LOCK
in a
STEEL COMMERCIAL DOOR

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. This product has been tested in the door panels as specified in this approval. Substitution into a 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.
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 elevation, design pressures & general notes
2	Lock details
3	Door panel details



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

CONFIGURATION	MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) INSWING / OUTSWING	
			POSITIVE	NEGATIVE
SINGLE	40.00" x 88.00"	"M Series" MORTISE LOCK	+80.0	-80.0

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: CAL-ROYAL
MORTISE LOCK

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

NO.	DATE	REVISIONS			
		DATE	DESCRIPTION	BY	CHK
5	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
4	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
3	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
2	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK	
1	8/14/14	UPDATE DOOR PANEL DETAILS		LFS	

DATE: 2/14/12

SCALE: N.T.S.

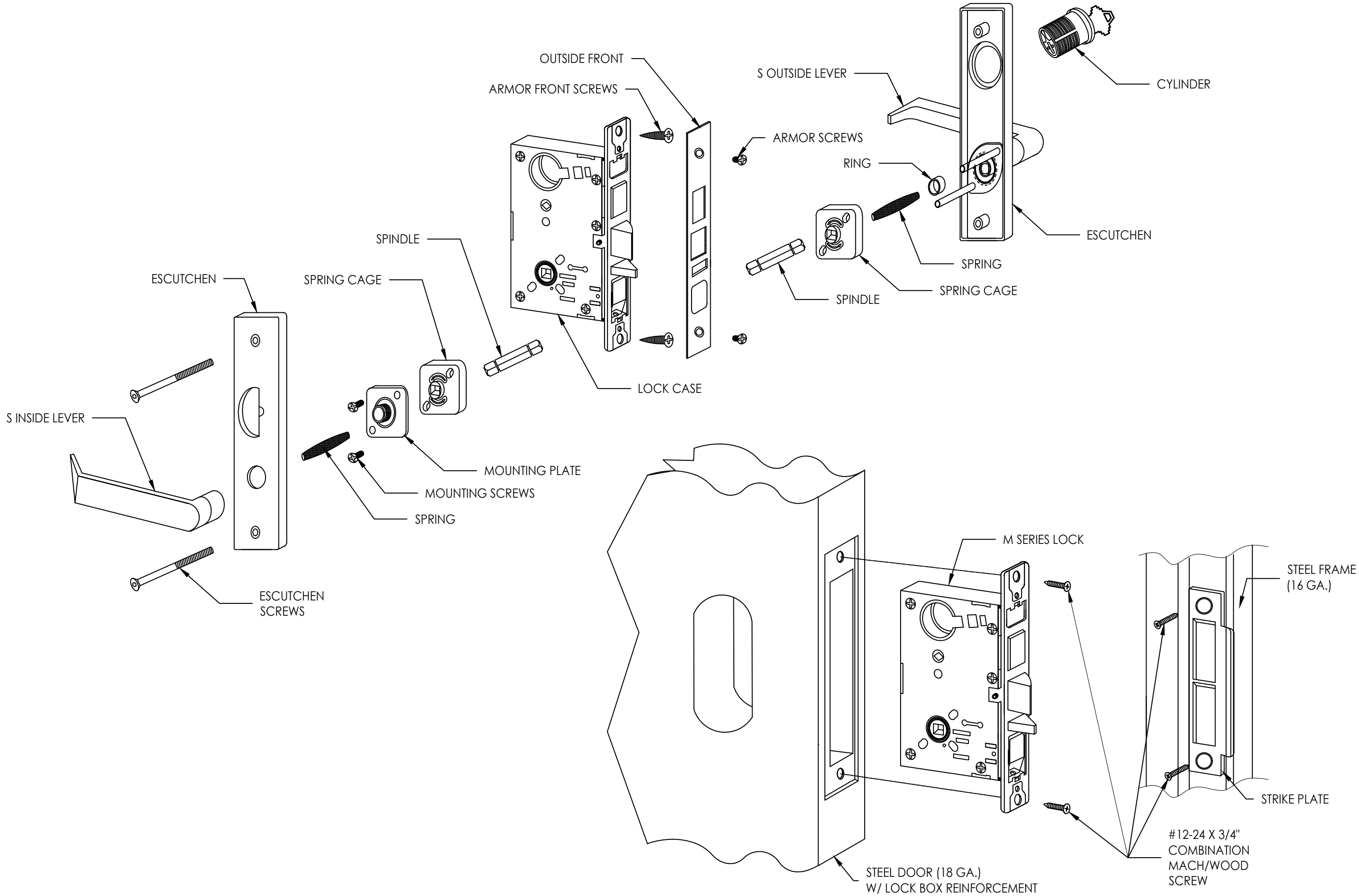
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-13922.9

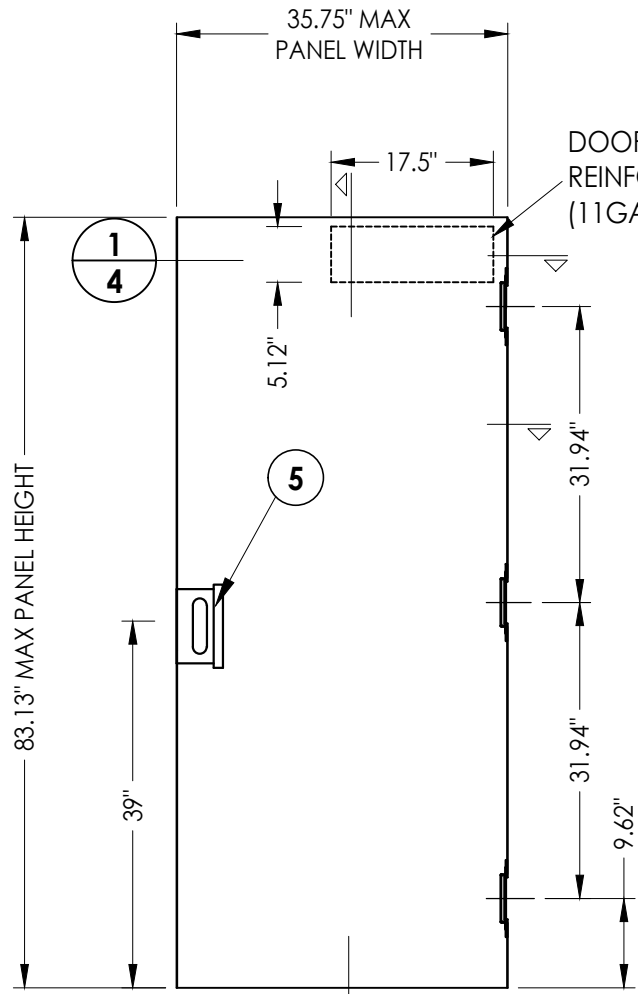
SHEET 1 OF 3

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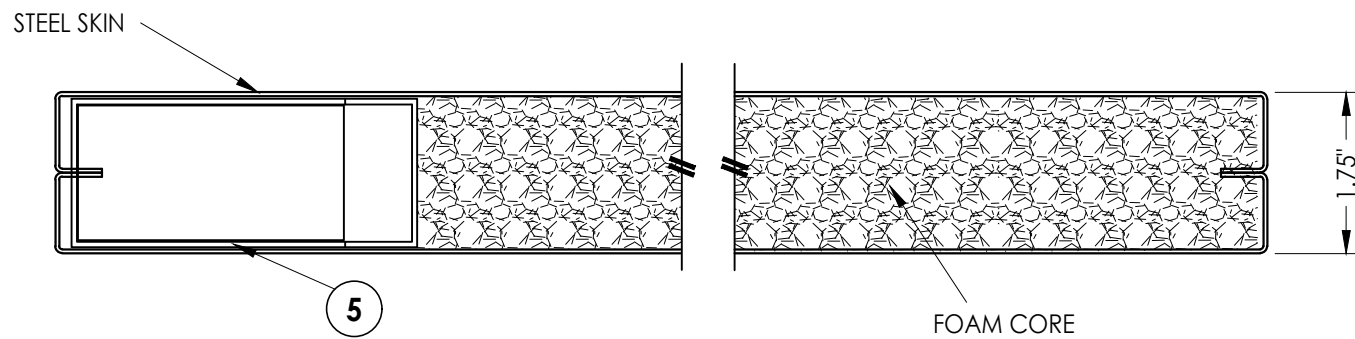
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		
PRODUCT: CAL-ROYAL MORTISE LOCK		PART OR ASSEMBLY: LOCK DETAILS		
5	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
3	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	JK
2	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK
1	8/14/14	UPDATE DOOR PANEL DETAILS		LFS
NO.	DATE			BY
REVISIONS				
DATE: 2/14/12				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-13922.9				
SHEET 2 OF 3				

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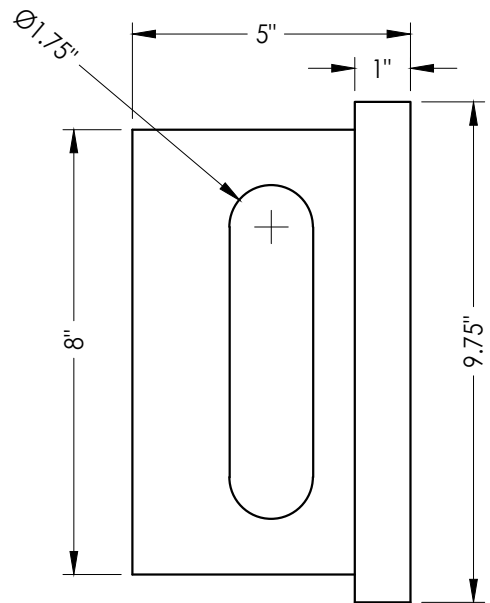


1 CAL-ROYAL DOOR PANEL

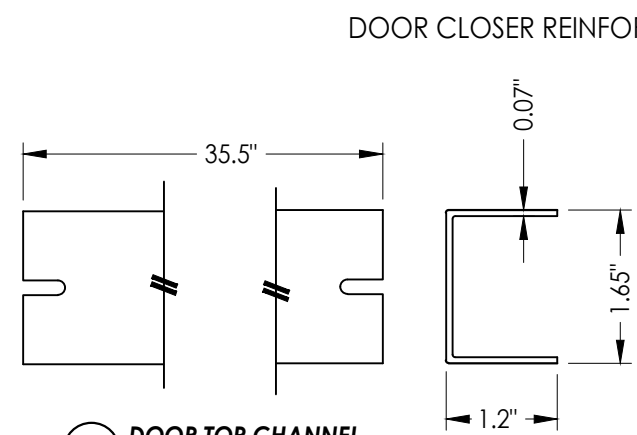
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



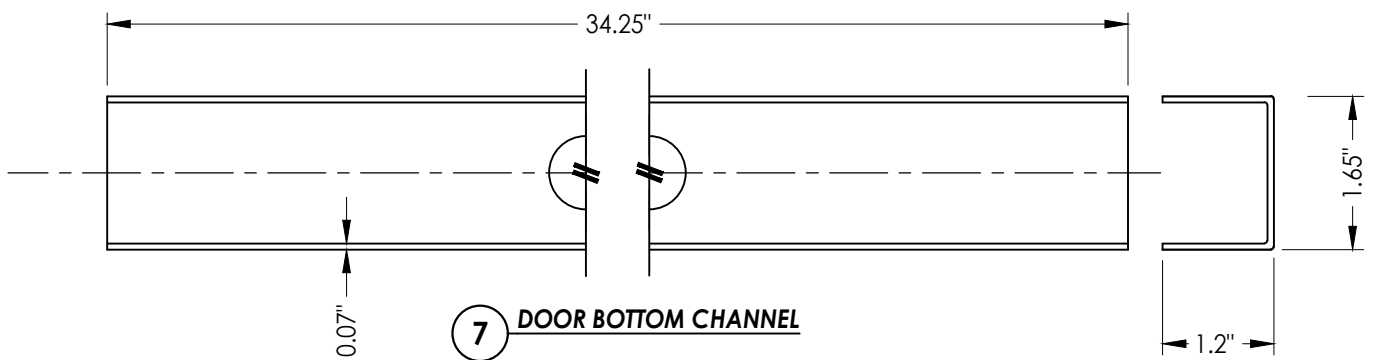
1 4 HORIZONTAL CROSS SECTION



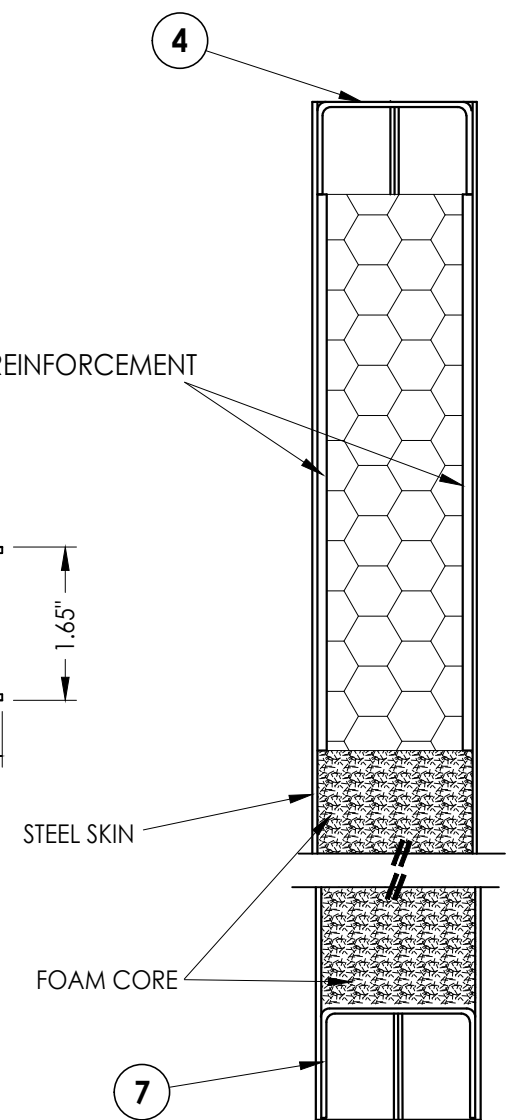
5 LOCK BOX REINFORCEMENT
Steel



4 DOOR TOP CHANNEL



7 DOOR BOTTOM CHANNEL



2 4 VERTICAL CROSS SECTION

NO.	DATE	REVISIONS
5	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	11/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
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DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-13922.9
SHEET	3 OF 3

PRODUCT:	CAL-ROYAL MORTISE LOCK
PART OR ASSEMBLY:	DOOR PANEL DETAILS

Documents Prepared By:
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RW BUILDING CONSULTANTS, INC.
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