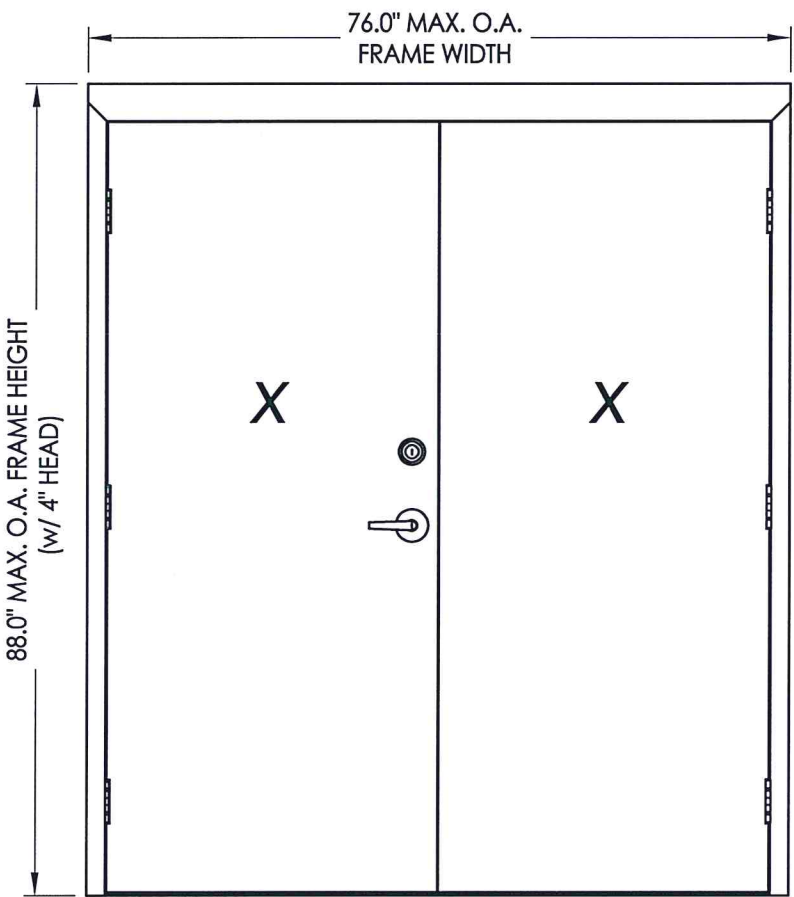




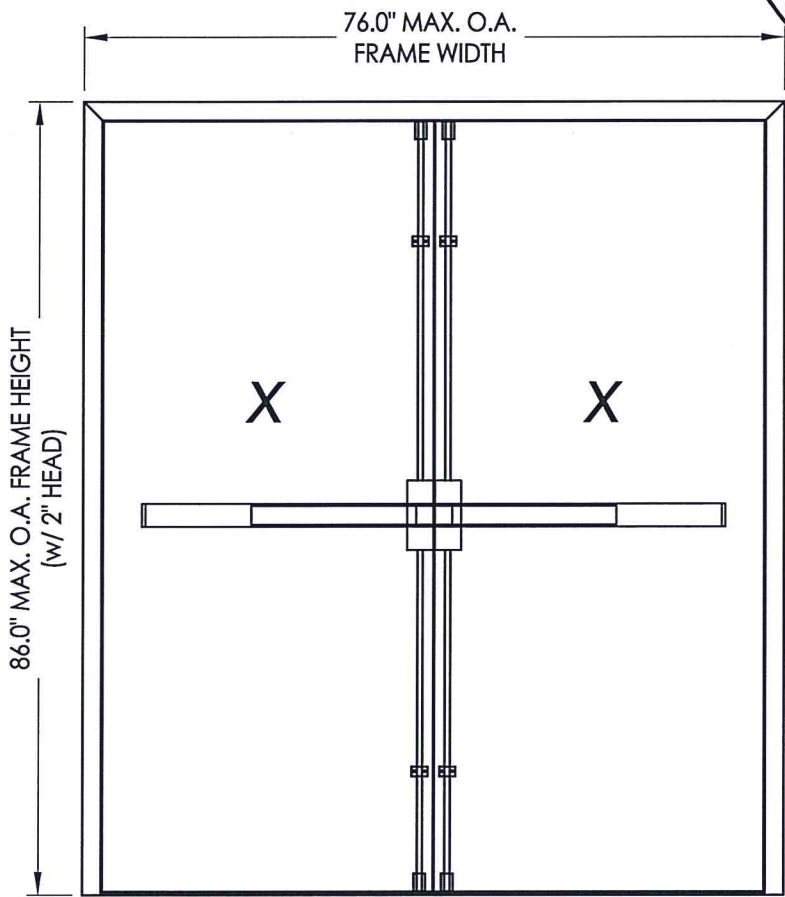
DKS SERIES 1800
STEEL COMMERCIAL DOUBLE DOOR
INSWING / OUTSWING
"IMPACT"

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" 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 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product does not meet the water infiltration requirements for the "HVHZ" and 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.
7. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Frame anchoring
7	Frame anchoring
8	Components
9	Bill of materials and components

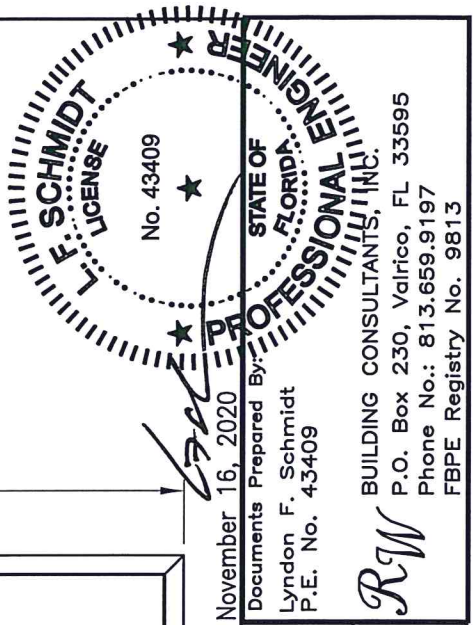


"Pioneer SL/CSL Series" Latch
"T300 Series" Deadbolt
161 Latch & Deadbolt



Panic Bar Exit Device w/ Vertical Rods "7700-V Series"

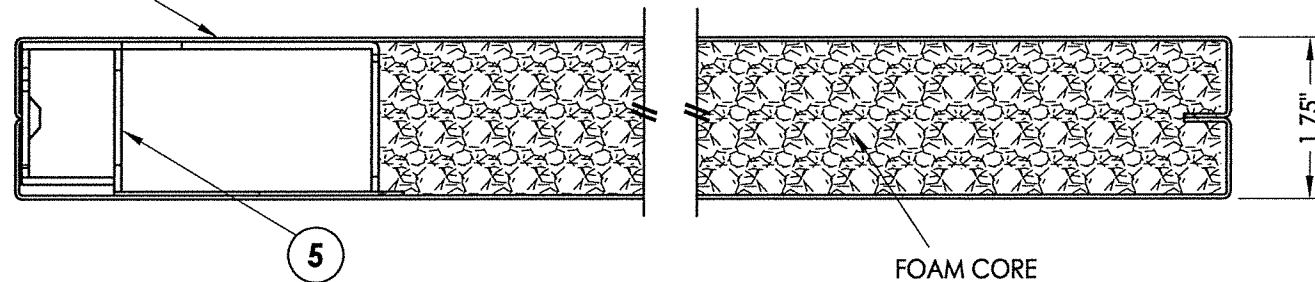
MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
76.00" x 88.00"	161 LATCH & DEADBOLT "Pioneer SL/CSL & T300 Series"	+55.0	-55.0	+55.0	-55.0
76.00" x 88.00"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	N/A	N/A	+70.0	-70.0



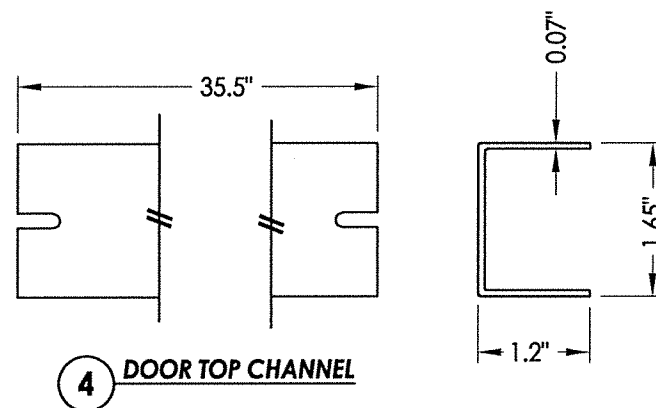
SHEET		1		OF		9	
DRAWING NO.: FL-13624.6							
CHK. BY:		LFS					
DWG. BY:		JK					
SCALE:		N.T.S.					
DATE:		5/25/10					
6	11/16/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS	PRODUCT: CAL-ROYAL STEEL COMMERCIAL DOOR PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
5	9/27/17	UPDATE TO 6TH ED.	(2017)	FBC	JK		
4	1/27/15	UPDATE TO 5TH ED.	(2014)	FBC	JK		
3	8/04/14	UPDATE ANCHORING			LFS		
2	1/26/12	UPDATE TO 2010	FBC		JK		
1	1/4/11	REVISE PANIC BAR MODEL NO.			LFS		
NO.		DATE				REVISIONS	
				BY			



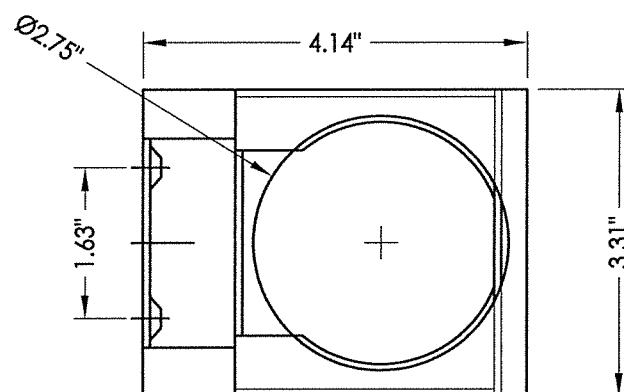
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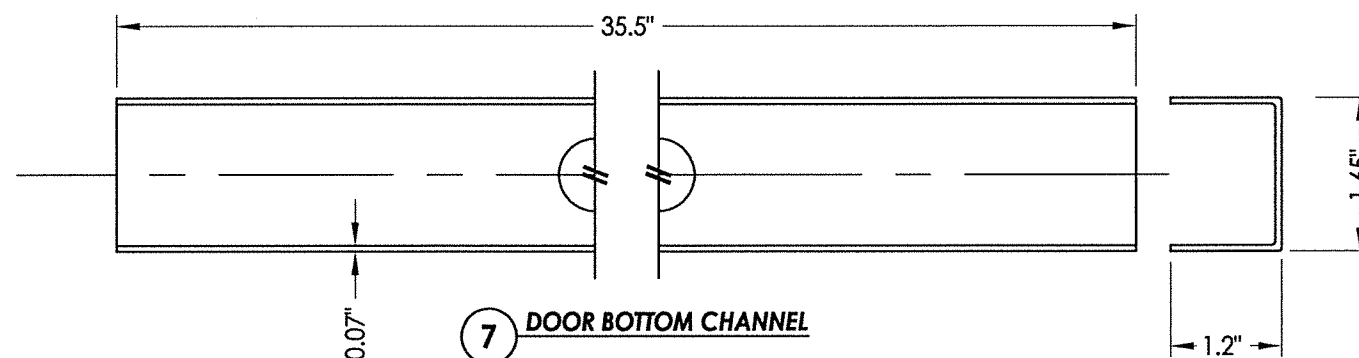
1 HORIZONTAL CROSS SECTION



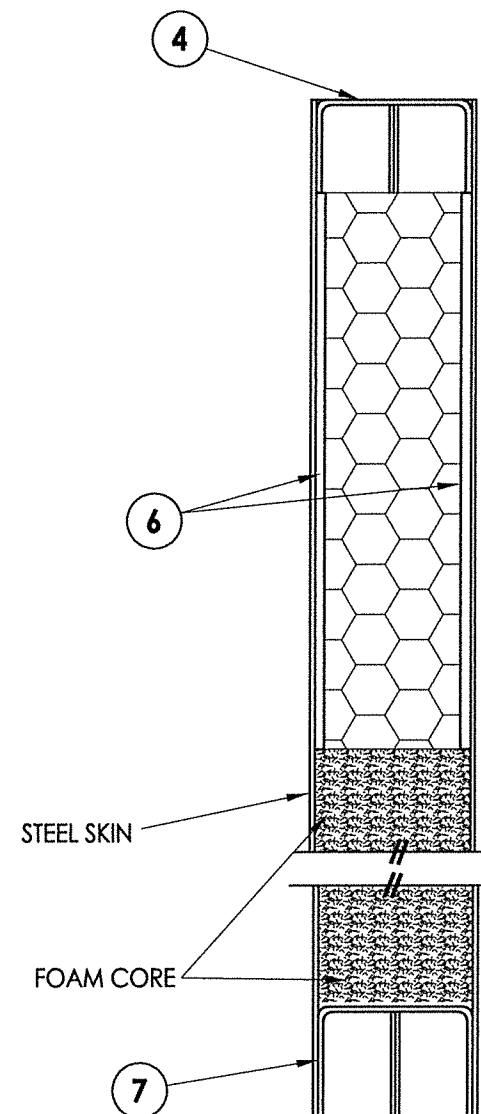
4 DOOR TOP CHANNEL



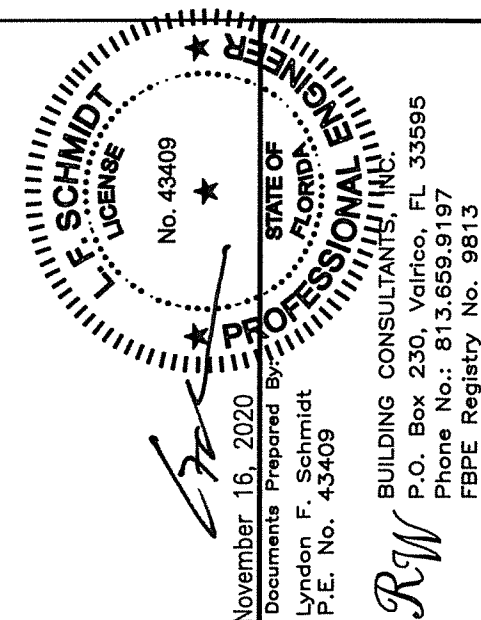
5 STEEL LOCK BOX REINFORCEMENT
161 Lock prep only



7 DOOR BOTTOM CHANNEL



2 VERTICAL CROSS SECTION

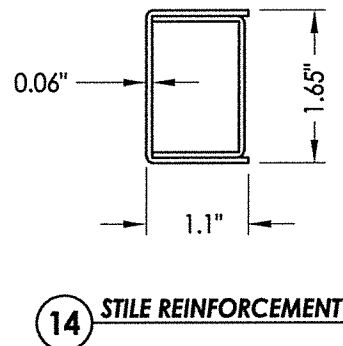


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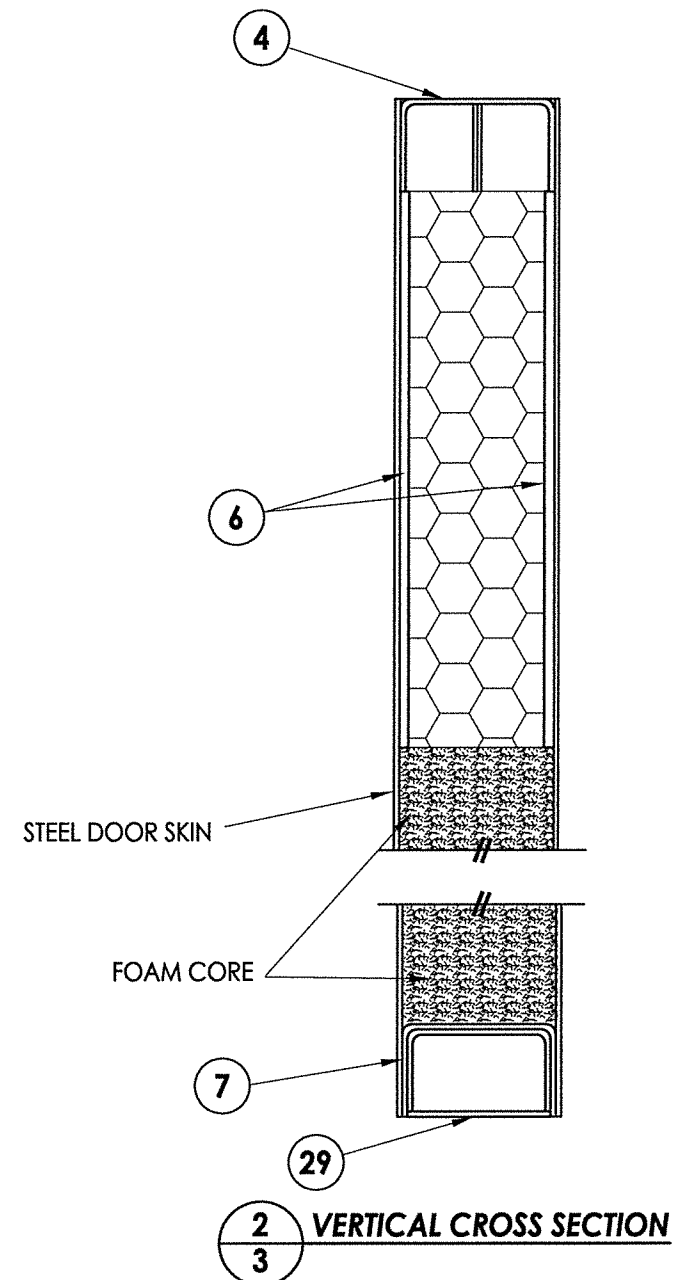
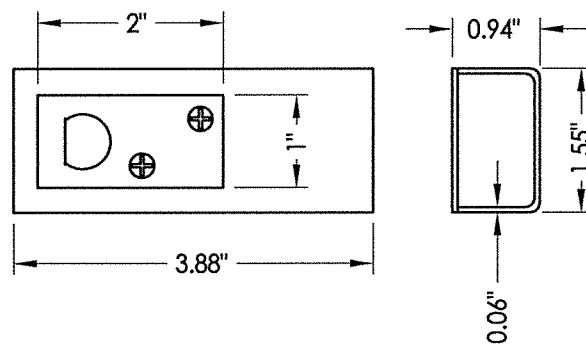
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:					CAL - ROYAL STEEL COMMERCIAL DOOR PART OR ASSEMBLY: DOOR PANEL DETAILS	
6	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS		
5	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	JK		
4	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK		
3	8/04/14	UPDATE ANCHORING		LFS		
2	1/26/12	UPDATE TO 2010 FBC		JK		
1	1/4/11	REVISE PANIC BAR MODEL NO.		LFS		
NO.	DATE			BY		
						REVISIONS
DATE: 5/25/10						
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-13624.6						
SHEET 2 OF 9						

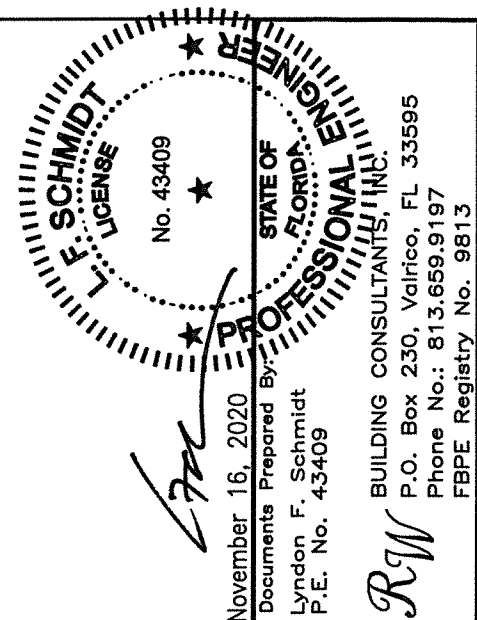
1 **HORIZONTAL CROSS SECTION**
3



29 DOOR BOTTOM REINFORCEMENT w/ Strike Plate



2 VERTICAL CROSS SECTION



November 16, 2020

November 10, 2020
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

RW

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

DATE: 5/25/10		PRODUCT: CAL - ROYAL STEEL COMMERCIAL DOOR	
SCALE: N.T.S.		PART OR ASSEMBLY: DOOR PANEL DETAILS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-13624.6			
SHEET 3 OF 9			

IMPACT RATING: LOCATE ONE SCREW AT TOP AND BOTTOM AT CENTER OF EACH PUSH RAIL OR LOCATE ONE SCREW AT EACH END OF EACH BAR.

1-1/2" MIN. EMB. (TYP.)

2

9

F

E

13

20

28

21

22

20

1

EXTERIOR

INTERIOR

2/4 HORIZONTAL CROSS SECTION

10

16

30

87

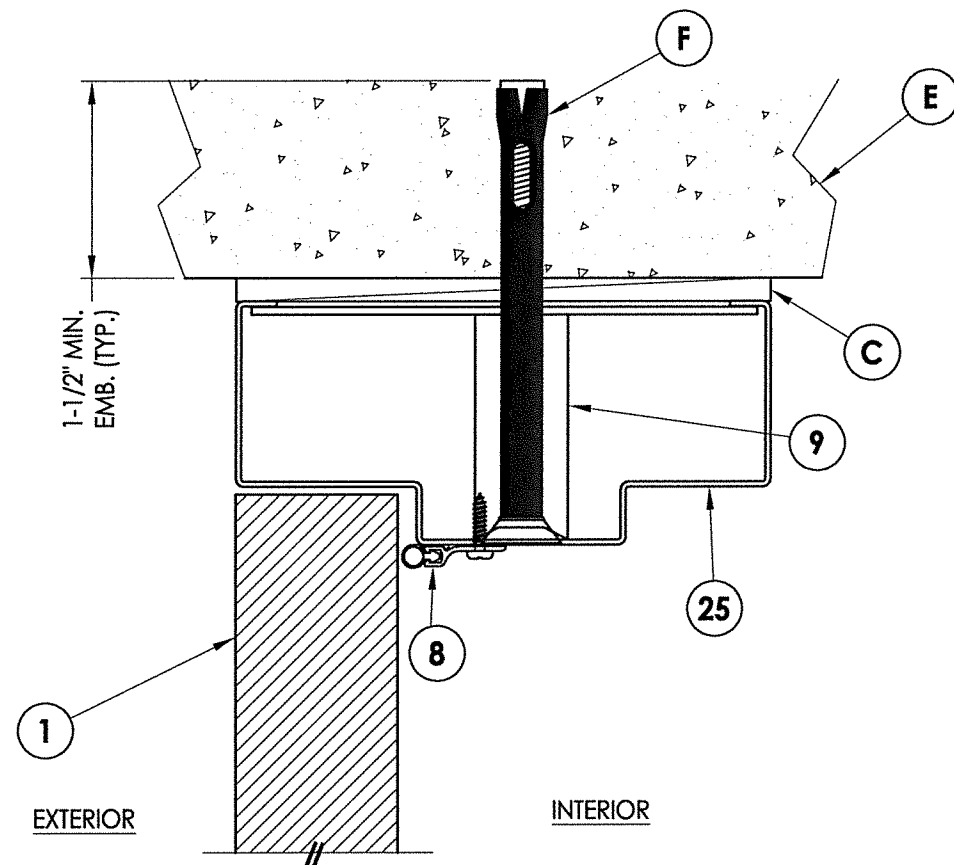
1

EXTERIOR

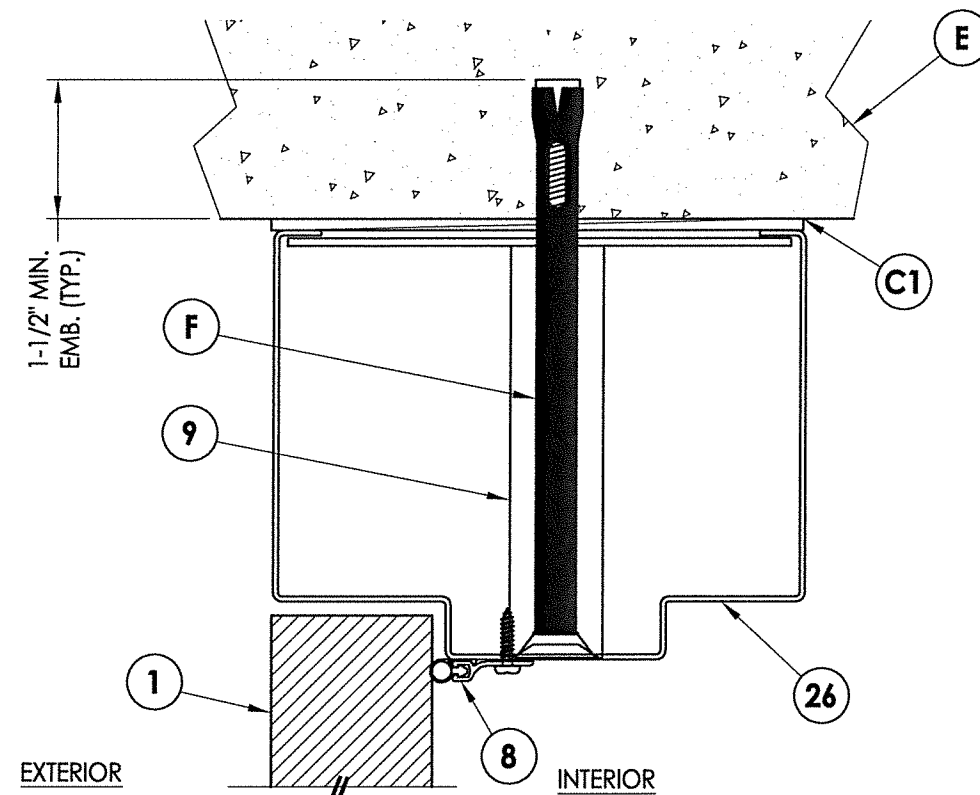
INTERIOR

1/4 HORIZONTAL CROSS SECTION

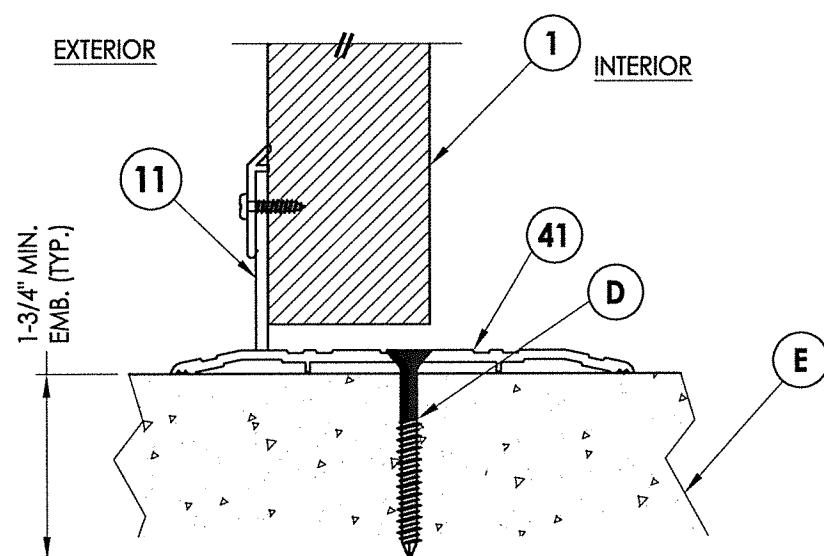




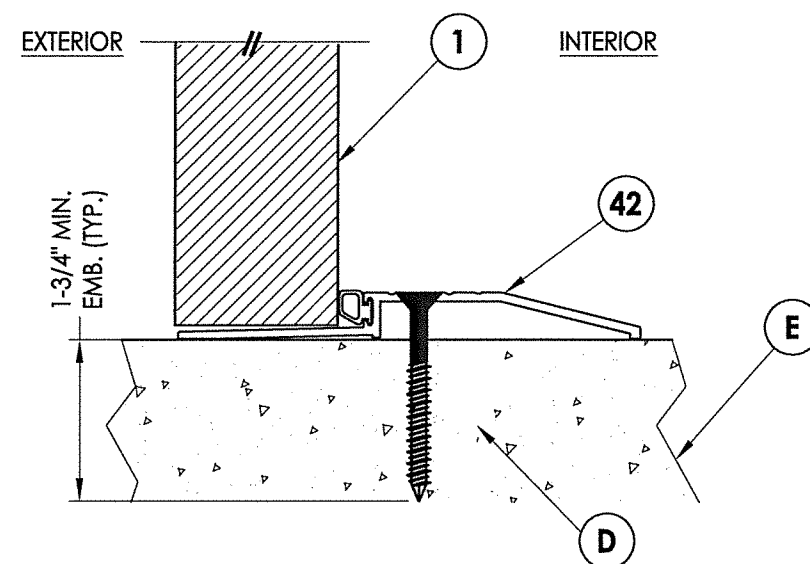
1 **VERTICAL CROSS SECTION**
5 Outswing configuration - Inswing also approved



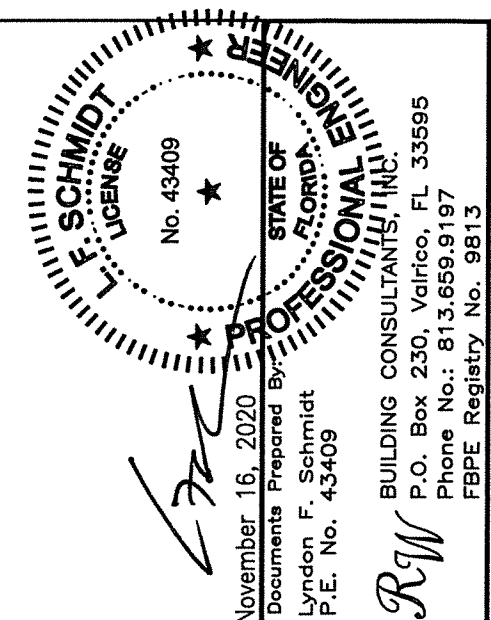
2 **VERTICAL CROSS SECTION**
5 Outswing configuration - Inswing also approved



3 VERTICAL CROSS SECTION
5 Inswing configuration



4 VERTICAL CROSS SECTION



PRODUCT:	CAL-ROYAL STEEL COMMERCIAL DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

DATE:	5/25/10			
SCALE:	N.T.S.			
DWG. BY:	JK			
CHK. BY:	LFS			
DRAWING NO.:	FL-13624.6			
SHEET	5	OF	9	

8.63"

EE LATCH &
HEADBOLT
ETAIL

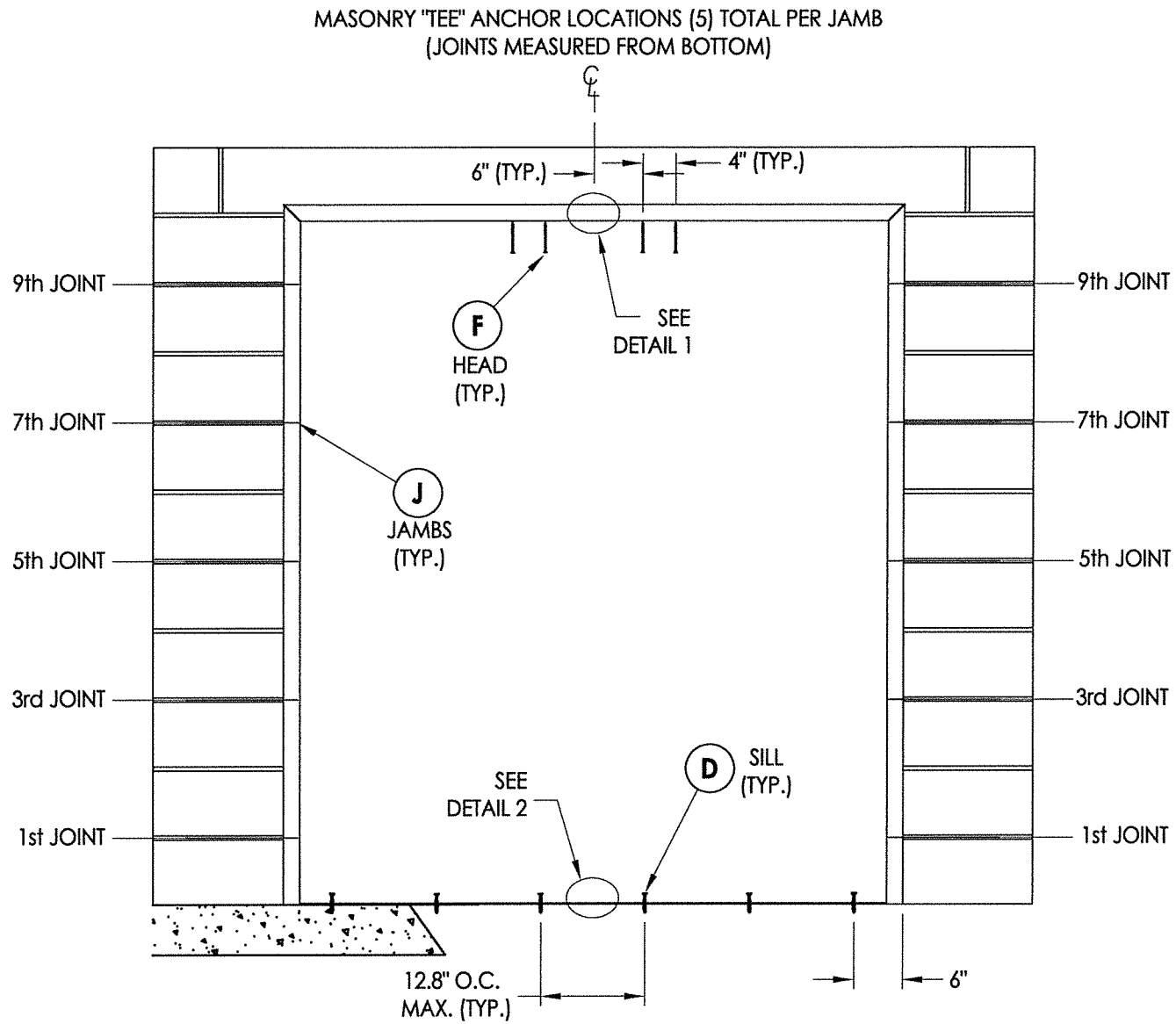
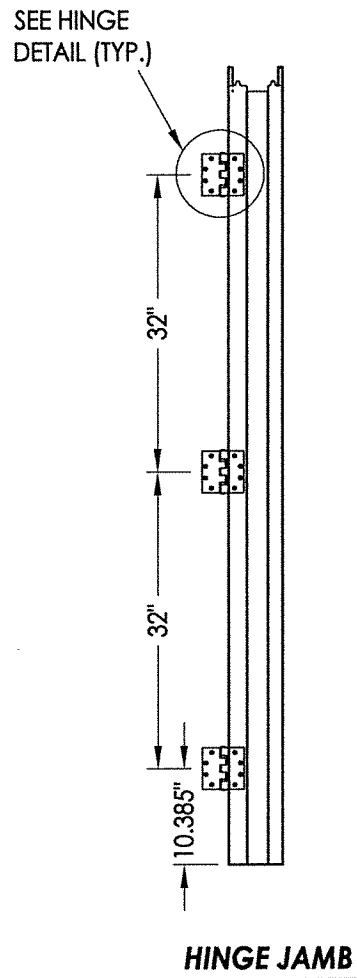
November 16, 2020

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

LF

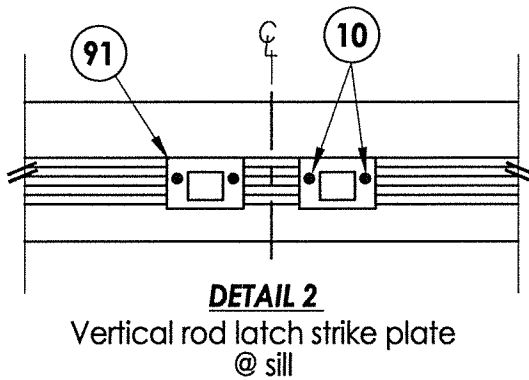
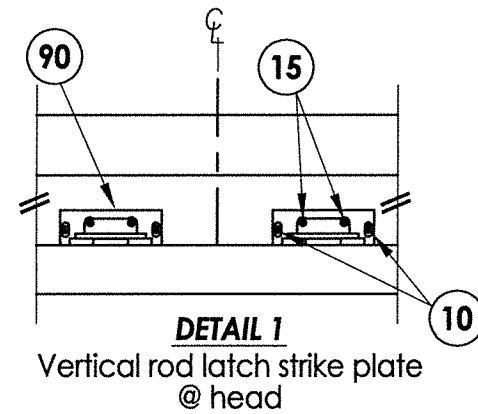
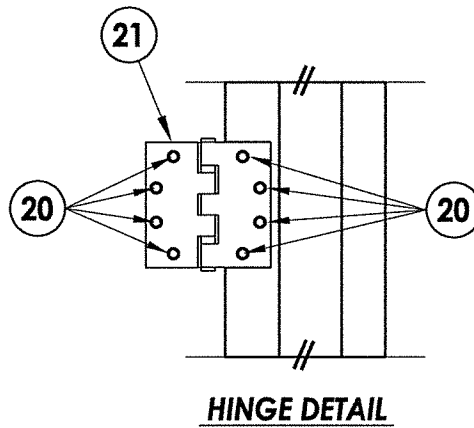
FLORIDA
STATE OF
ENGINEER
PROFESSIONAL
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

LF SCHMIDT
LICENSE
No. 43409



Masonry Construction

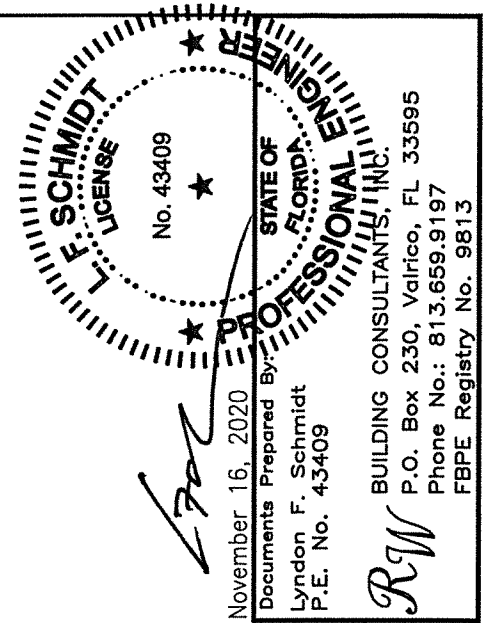
Masonry "Tee" Anchors



CONCRETE ANCHOR NOTES:

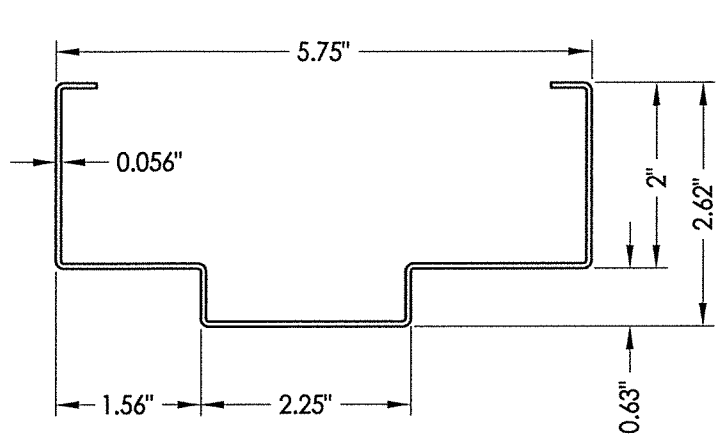
1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	4"
DeWALT ULTRAON+®	1/4"	1-3/4"	1"	4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"

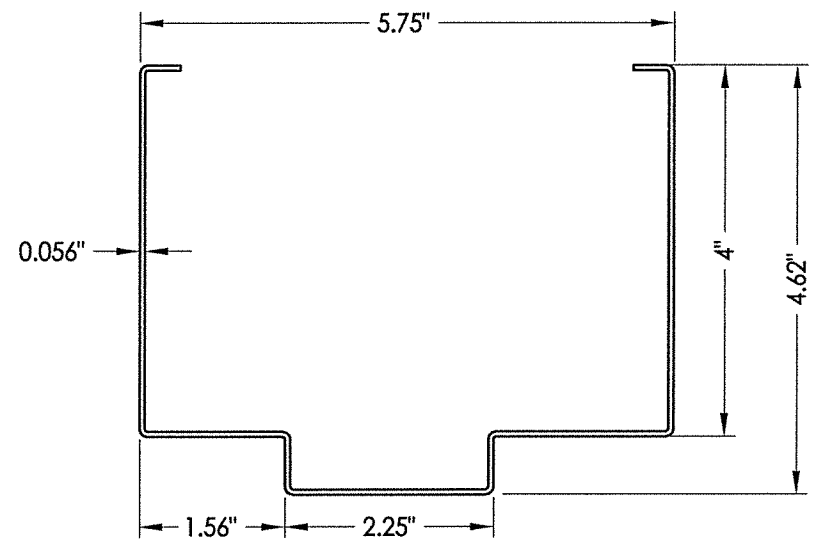


SHEET <u>7</u> OF <u>9</u>		DRAWING NO.: <u>FL-13624.6</u>		CHK. BY: <u>LFS</u>		DWG. BY: <u>JK</u>		SCALE: <u>N.T.S.</u>		DATE: <u>05/25/10</u>	
NO.		DATE		REVISE PANIC BAR MODEL NO.		UPDATE TO 2010 FBC		UPDATE TO 5TH ED. (2014) FBC		UPDATE TO 7TH ED. (2020) FBC	
1		1/4/11				2		3		6	
2		1/26/12				4		4		5	
3		8/04/14				5		5		6	
4		1/27/15				6		6		7	
5		9/27/17				7		7		8	
6		11/16/20				8		8		9	
7						9		9		10	
8						10		10		11	
9						11		11		12	
10						12		12		13	
11						13		13		14	
12						14		14		15	
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15						17		17		18	
16						18		18		19	
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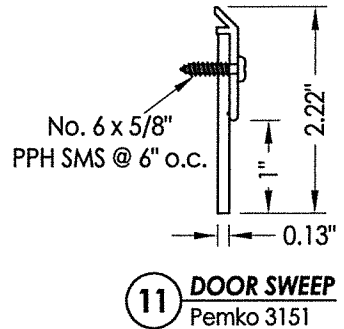
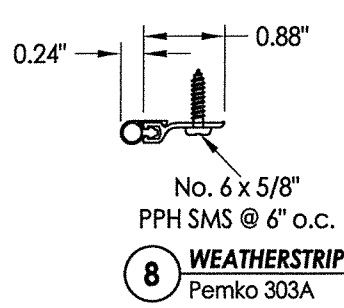
\\dc01\rbwc\Clients\Cal-Royal PERMANENTVA - Florida Product Approvals\FL-13624\C - Drawings\FL 13624 (2020) R8\FL-13624.3-6.dwg



26 HOLLOW METAL FRAME
2" HEAD



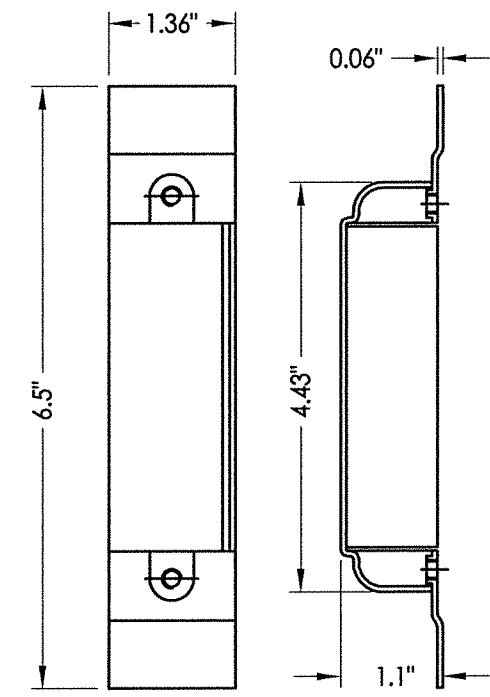
26 HOLLOW METAL FRAME
4" HEAD



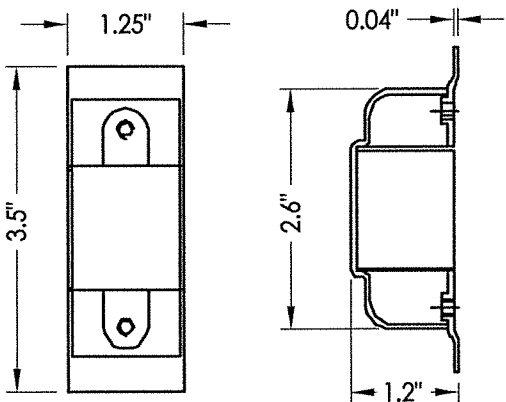
November 16, 2020
Documents Prepared By: Lyndon F. Schmidt
P.E. No. 43409

STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 43409

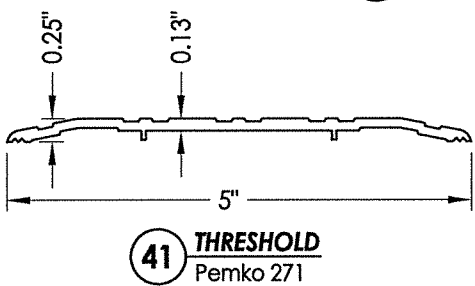
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



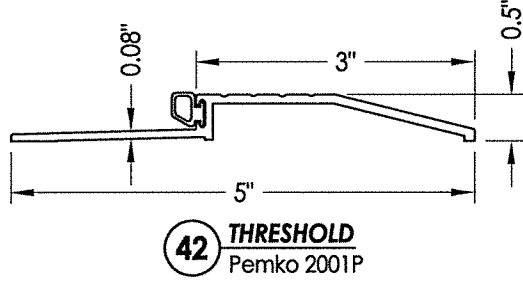
30 DOOR LATCH REINFORCEMENT



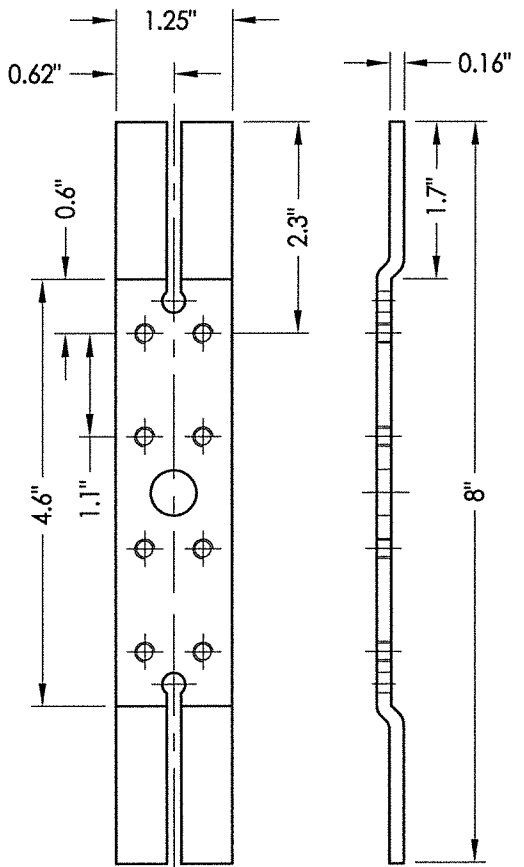
31 DOOR DEADBOLT REINFORCEMENT



41 THRESHOLD
Pemko 271

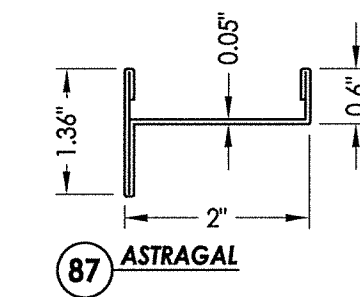


42 THRESHOLD
Pemko 2001P



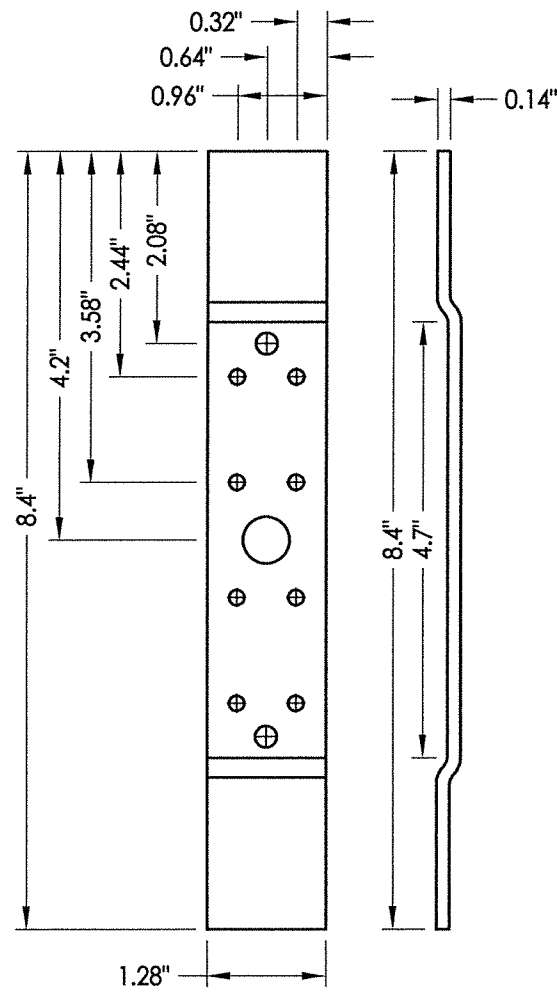
22 DOOR HINGE REINFORCEMENT

91 VERTICAL ROD LATCH STRIKE PLATE
@ Sill

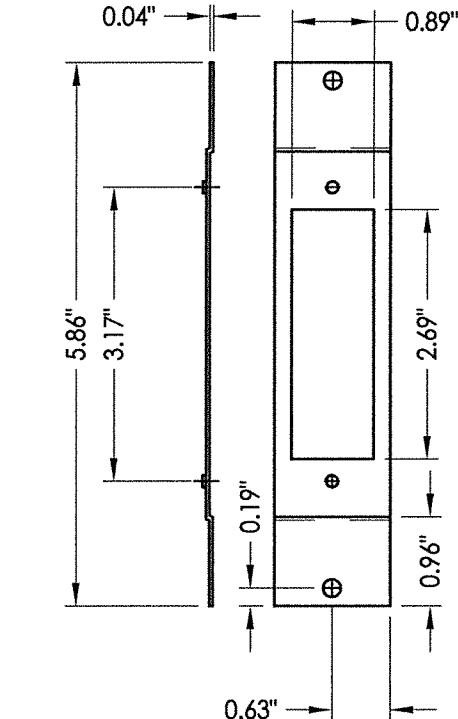


87 ASTRAGAL

90 VERTICAL ROD LATCH STRIKE PLATE
@ Head



28 FRAME HINGE REINFORCEMENT



27 FRAME LATCH STRIKE REINFORCEMENT

PRODUCT:		CAL-ROYAL STEEL COMMERCIAL DOOR	
PART OR ASSEMBLY:		COMPONENTS	
REVISIONS			
NO.	DATE	LFS	BY
6	11/16/20	UPDATE TO 7TH ED. (2020) FBC	JK
5	9/27/17	UPDATE TO 6TH ED. (2017) FBC	JK
4	1/27/15	UPDATE TO 5TH ED. (2014) FBC	JK
3	8/04/14	UPDATE ANCHORING	LFS
2	1/26/12	UPDATE TO 2010 FBC	JK
1	1/4/11	REVISE PANIC BAR MODEL NO.	LFS

DATE: 05/25/10

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-13624.6

SHEET 8 OF 9

