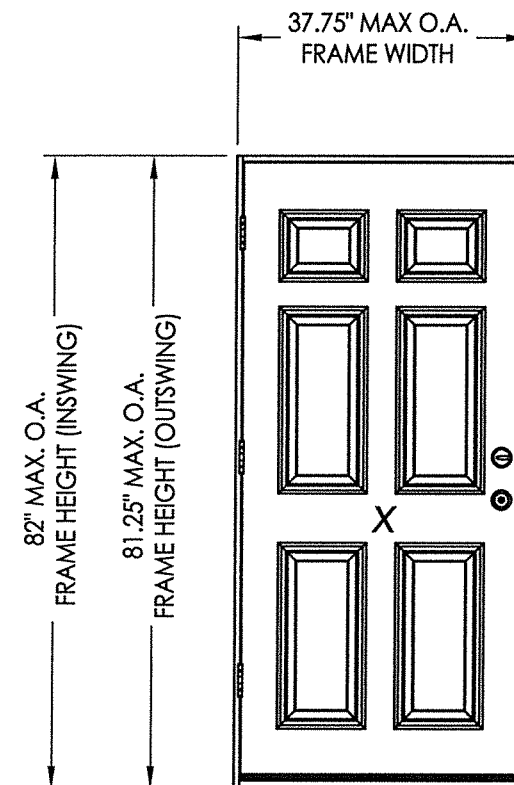


GENERAL NOTES

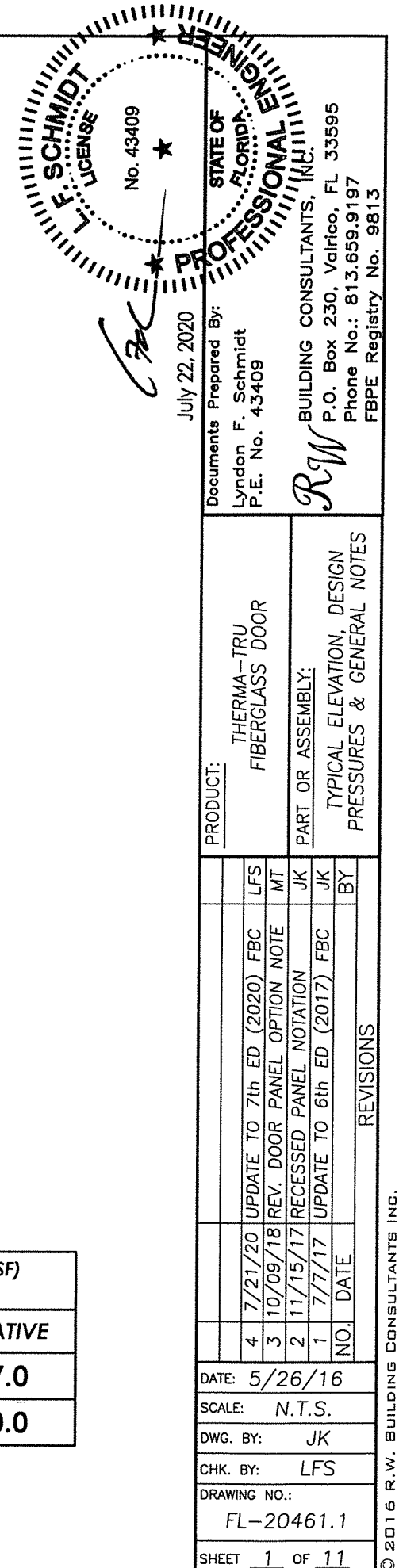
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. Fiber-Classic & Smooth-Star Door panels require the use of "J" part numbers and must be stained or painted within six months of installation.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Elevations
4	Horizontal & Vertical Cross Sections (2X Buck)
5	Horizontal & Vertical Cross Sections (1X Buck)
6	Horizontal & Vertical Cross Sections (Direct to Masonry)
7	Vertical Cross Sections (Thresholds)
8	Buck & Frame Anchoring
9	Hardware Details
10	Components
11	Bill of Materials

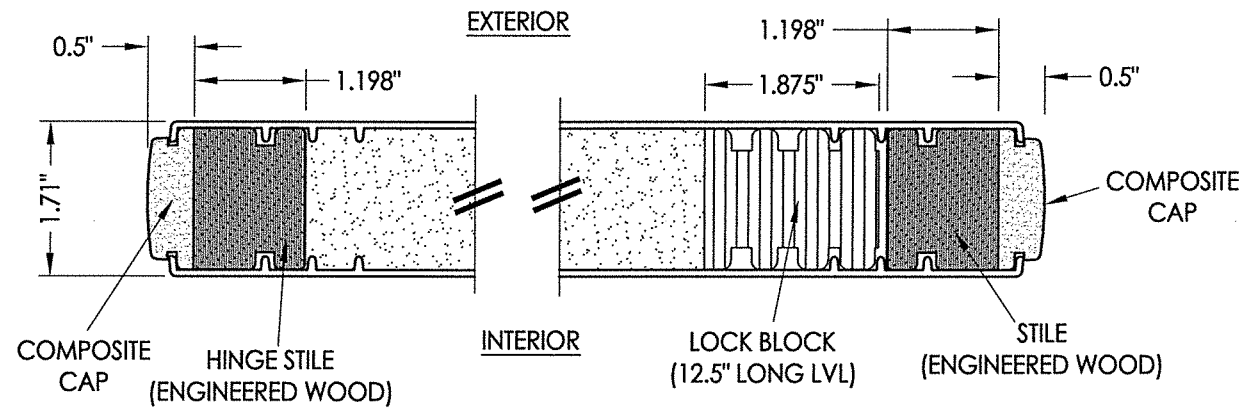


CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Latch & Deadbolt	+70.0	-75.0	+67.0	-67.0
X	Multipoint	+80.0	-80.0	+80.0	-80.0

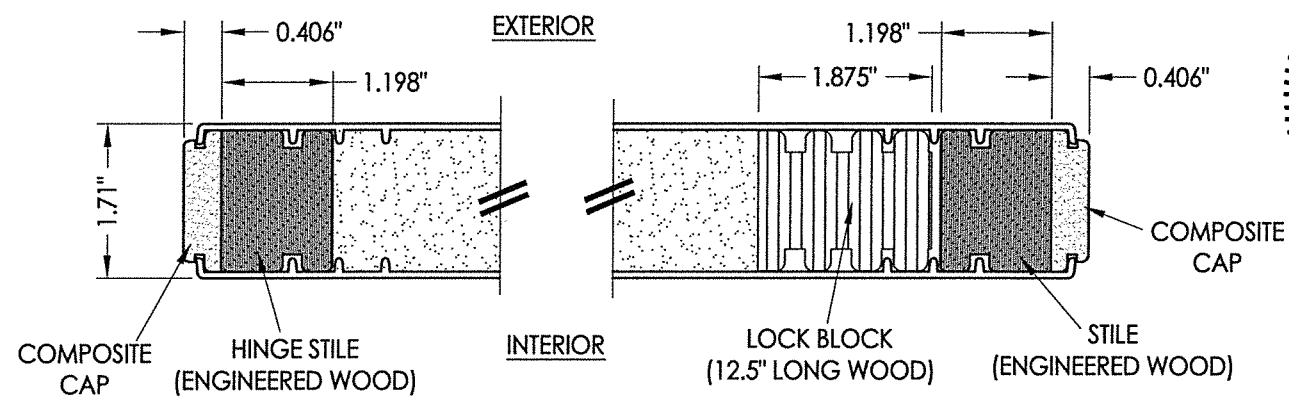
See Sheet 3 for Hardware Specifications



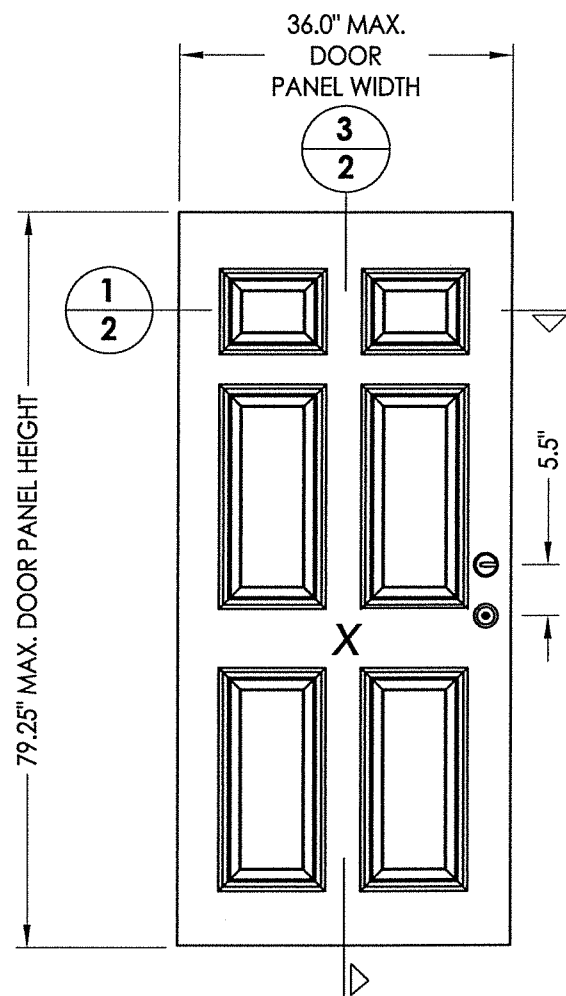
R:\Clients\Therma Tru PERMANENTVA - Florida Product Approvals\FL-20461 Structural TT SS\C - Drawings\FL 20461 (2020)\FL-20461.1-5.dwg, 2.1



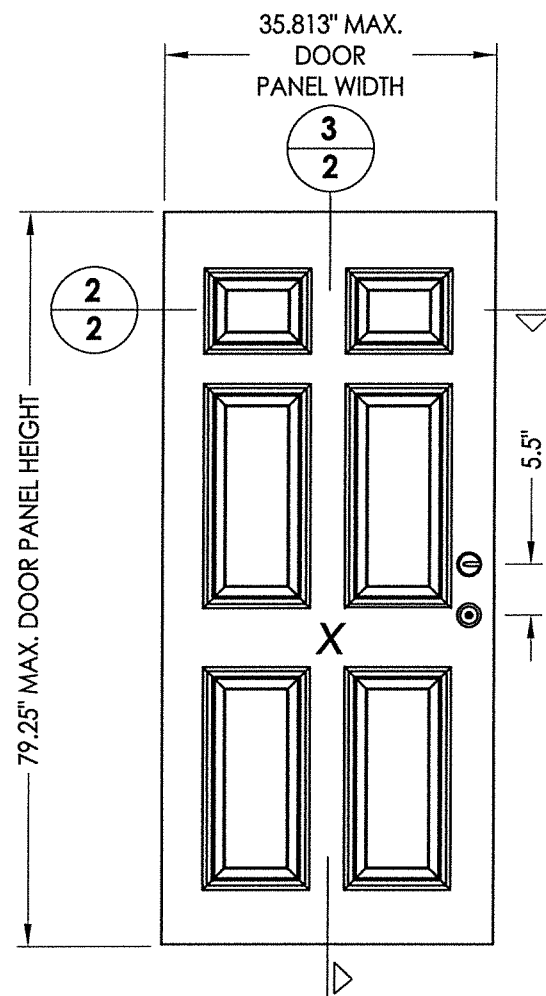
1
2 HORIZONTAL CROSS SECTION



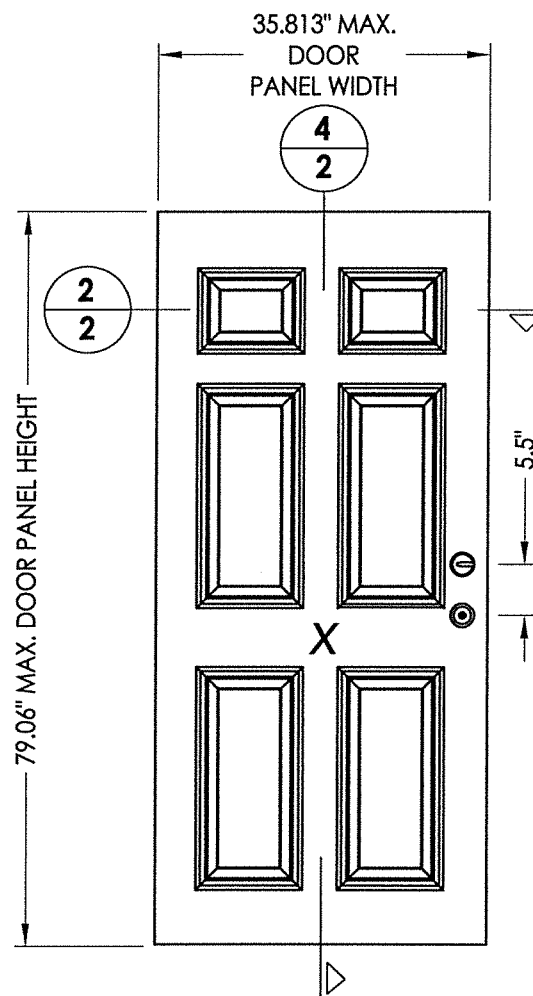
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2 HORIZONTAL CROSS SECTION



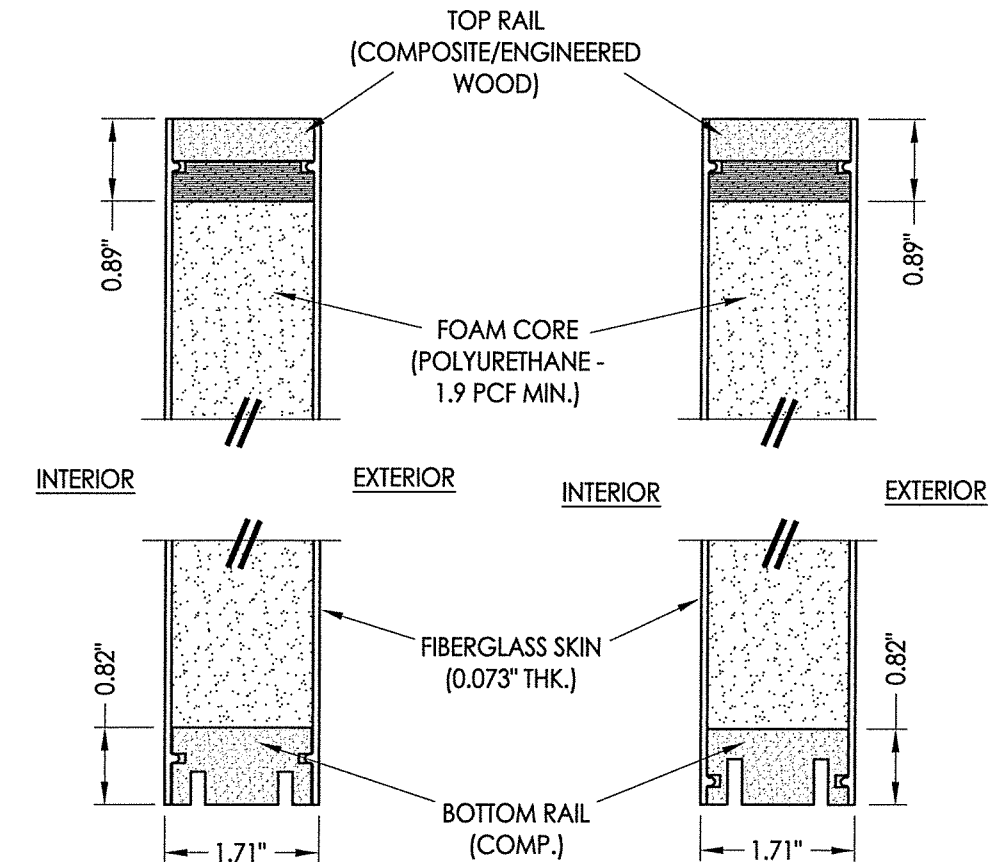
40 DOOR PANEL
BOOK



41 DOOR PANEL
Hybrid Door

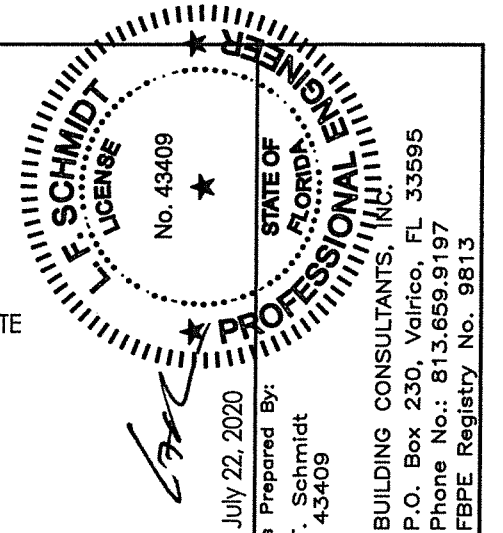


42 DOOR PANEL
U1 Door



3
2 VERTICAL CROSS SECTION

4
2 VERTICAL CROSS SECTION



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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

NO.	DATE	REVISIONS
4	7/21/20	UPDATE TO 7th ED (2020) FBC
3	10/09/18	REV. DOOR PANEL OPTION NOTE
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6th ED (2017) FBC
NO.	DATE	

DATE: 5/26/16

SCALE: N.T.S.

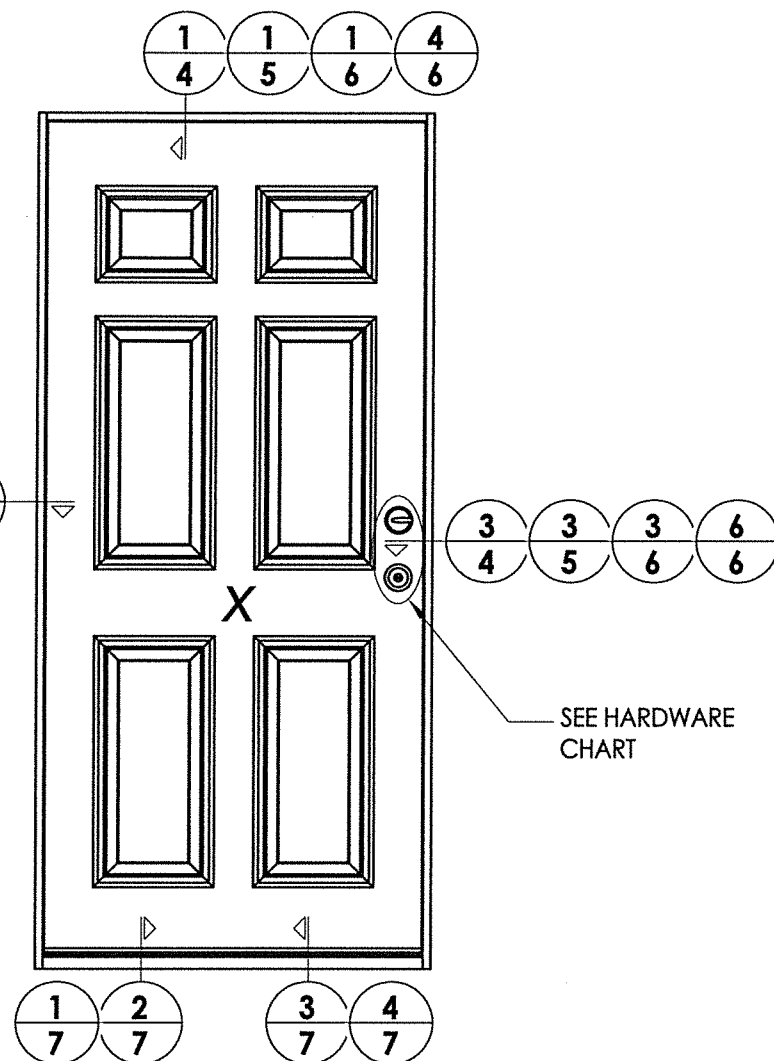
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CHK. BY: LFS

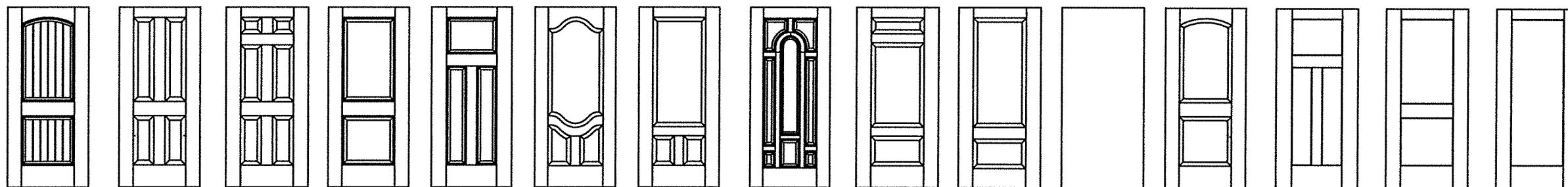
DRAWING NO.: FL-20461.1

SHEET 2 OF 11

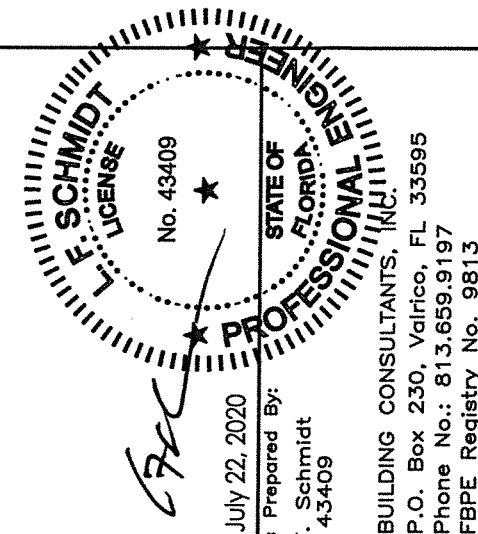
PART OR ASSEMBLY:
DOOR PANEL DETAILS



HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51 DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)



Products approved include all embossed and recessed panel doors.
Similar glazed panel configurations are allowed.
Panels shown are for illustration and are representative only.



July 22, 2020

July 22, 2020

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

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

[illegible]

DATE: 5/26/16

SCALE: N.T.S.

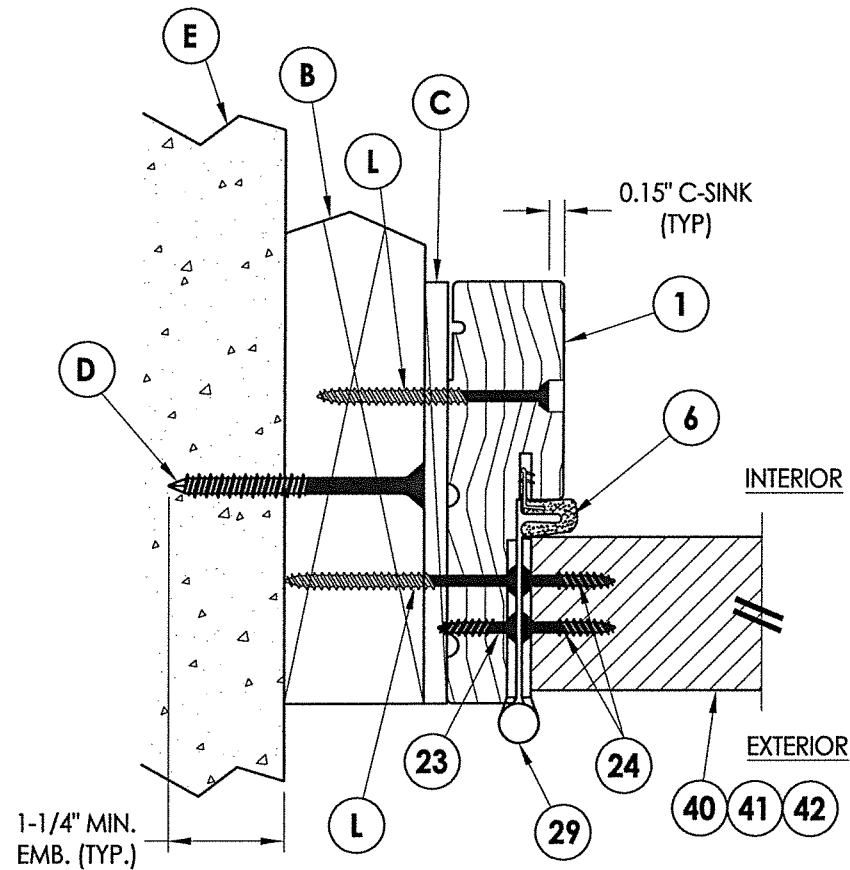
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CHK. BY: LFS

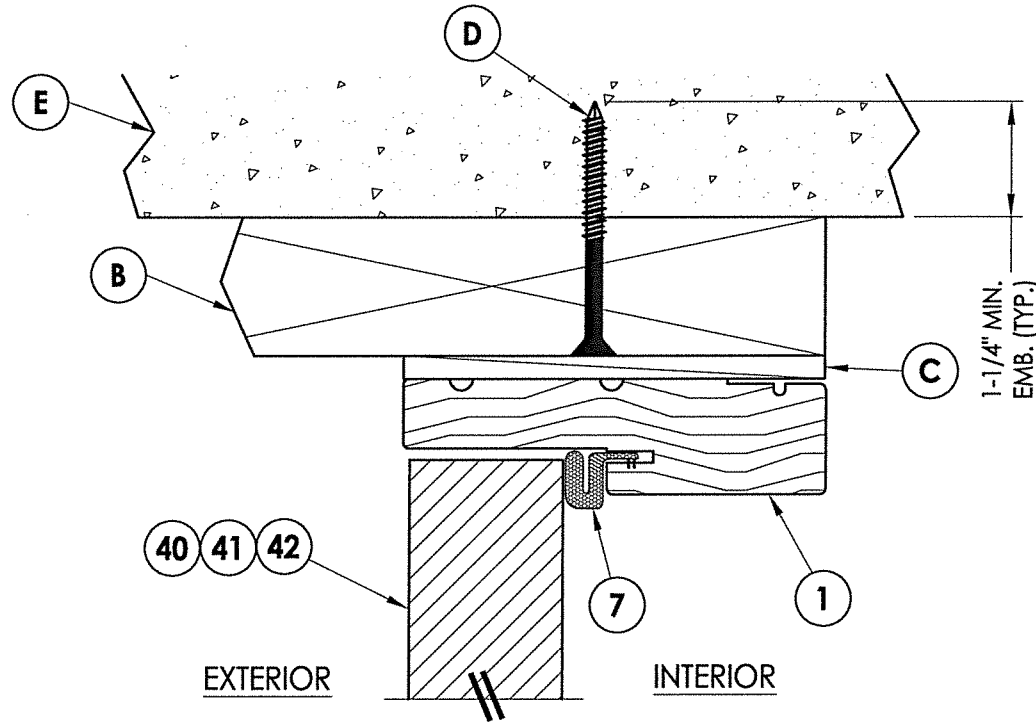
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FL-20461.1

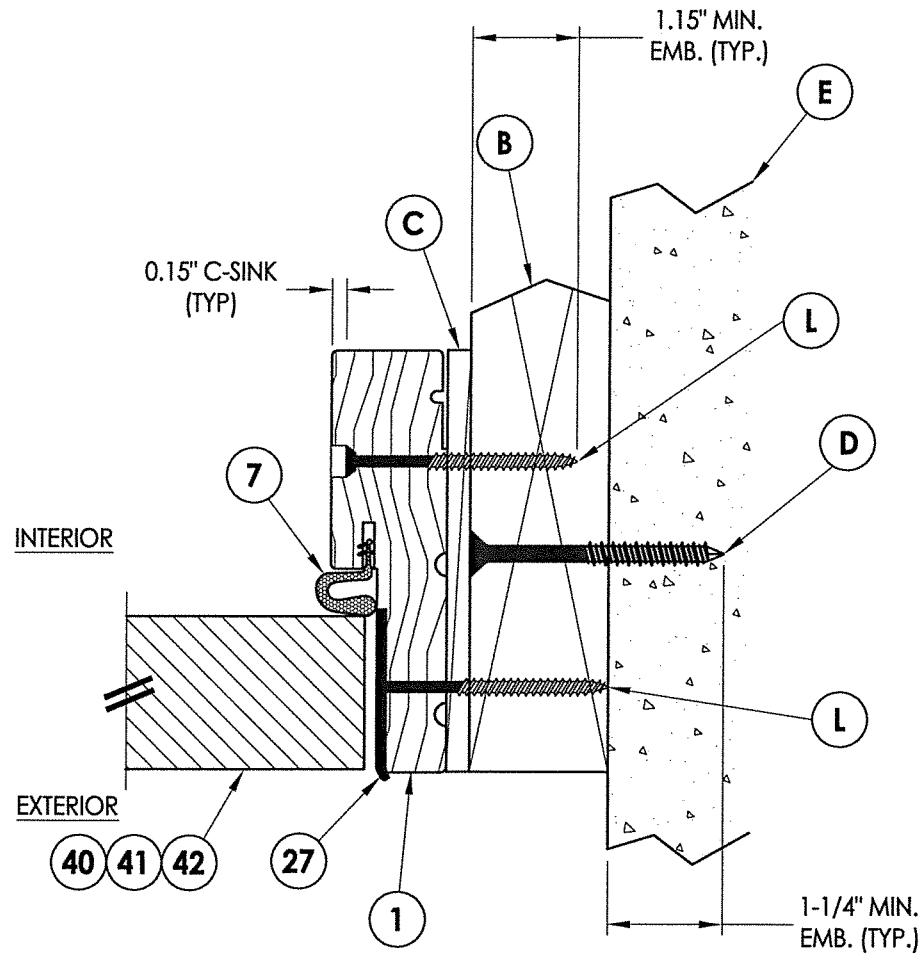
SHEET 3 OF 11



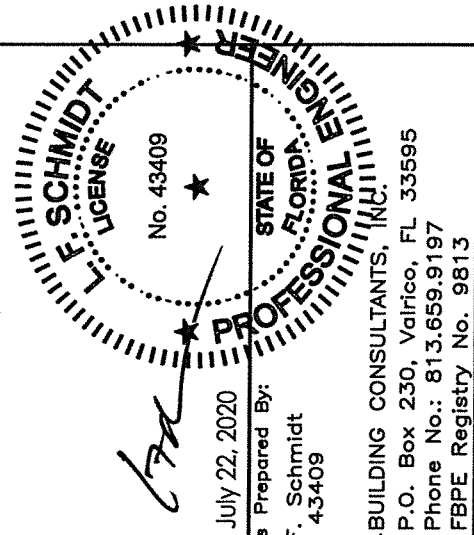
2 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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



July 22, 2020

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

PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
4	7/21/20	UPDATE TO 7th ED (2020) FBC
3	10/09/18	REV. DOOR PANEL OPTION NOTE
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6th ED (2017) FBC

DATE: 5/26/16

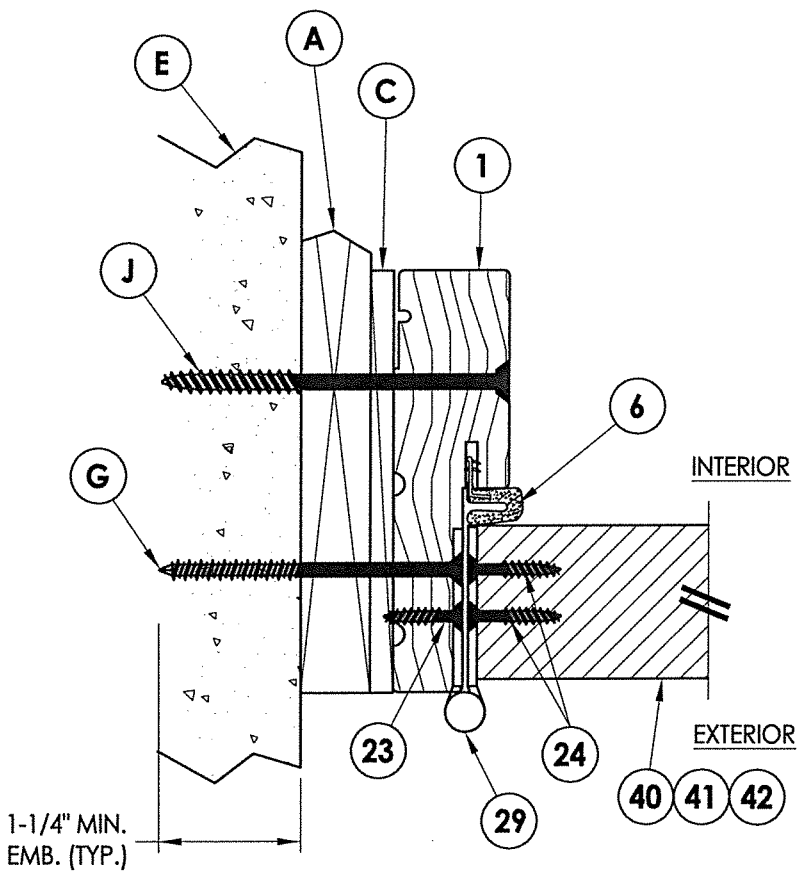
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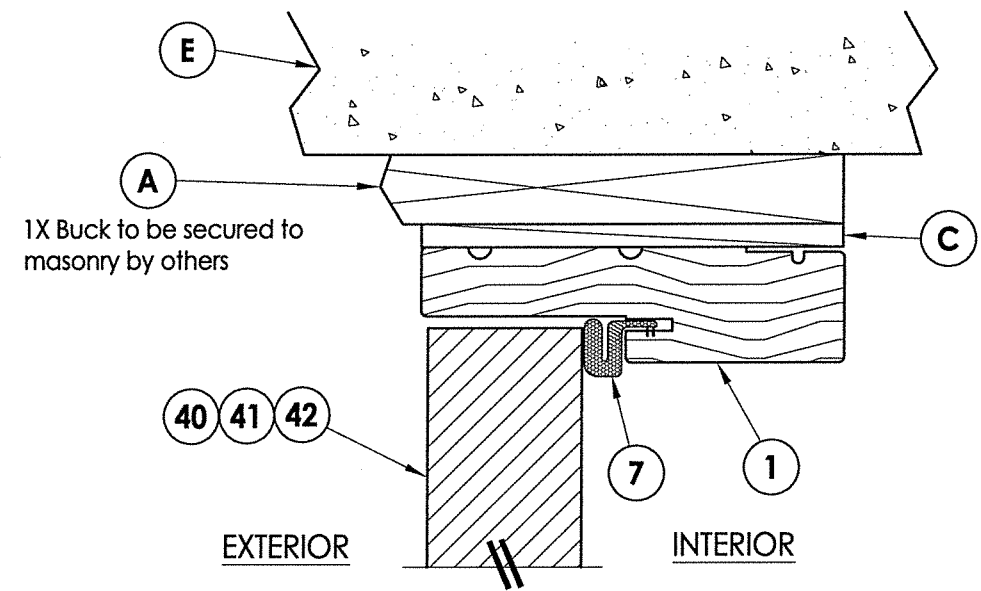
CHK. BY: LFS

DRAWING NO.:
FL-20461.1

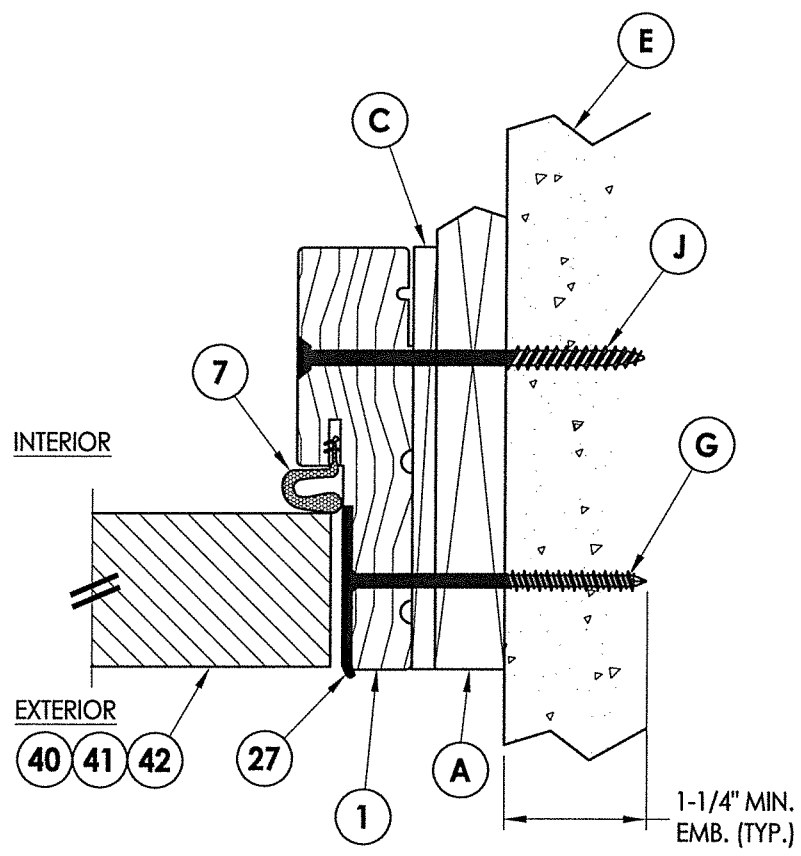
SHEET 4 OF 11



2 HORIZONTAL CROSS SECTION
5 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



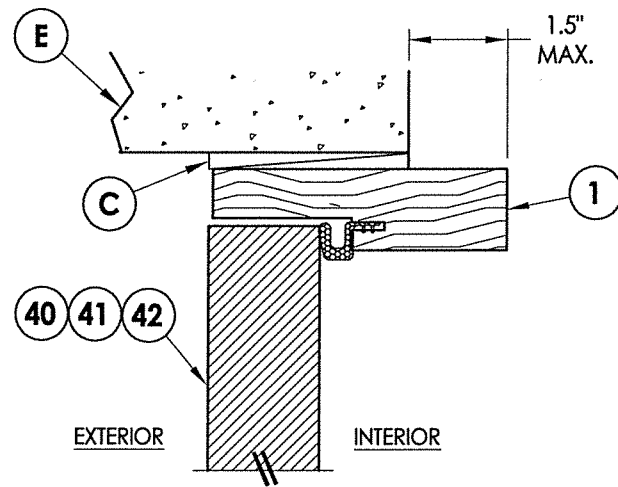
1 VERTICAL CROSS SECTION
5 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



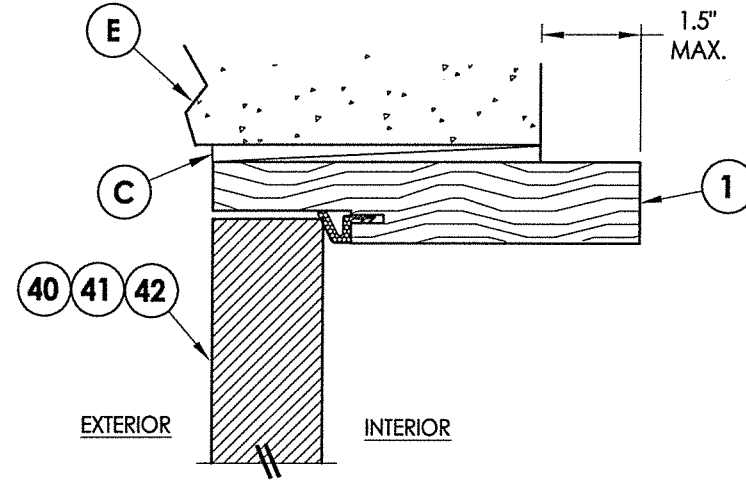
3 HORIZONTAL CROSS SECTION
5 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

F. SCHMIDT
LICENSE
No. 43409
STATE OF FLORIDA
PROFESSIONAL ENGINEER
July 22, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
REVISIONS			
NO.	DATE	BY	
4	7/21/20	UPDATE TO 7th ED (2020) FBC	LFS
3	10/09/18	REV. DOOR PANEL OPTION NOTE	MT
2	11/15/17	RECESSED PANEL NOTATION	JK
1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK
DATE:		5/26/16	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-20461.1	
SHEET		5 OF 11	

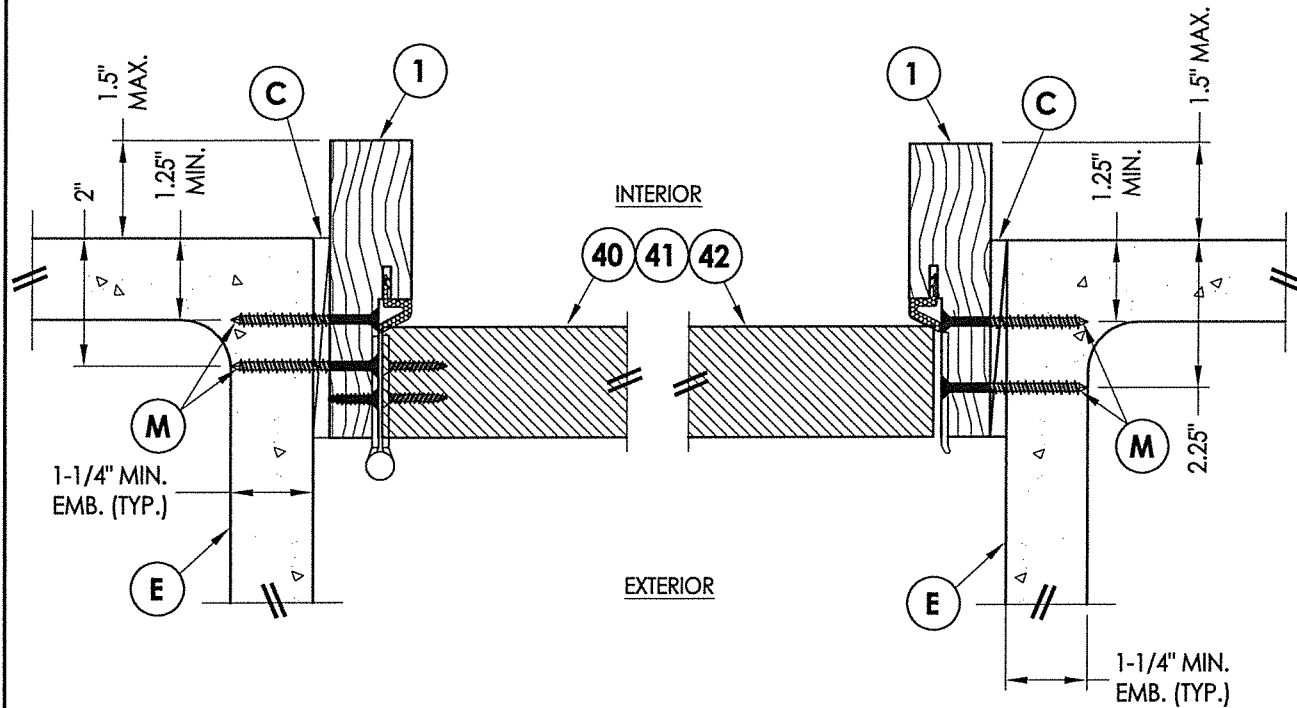


1
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb

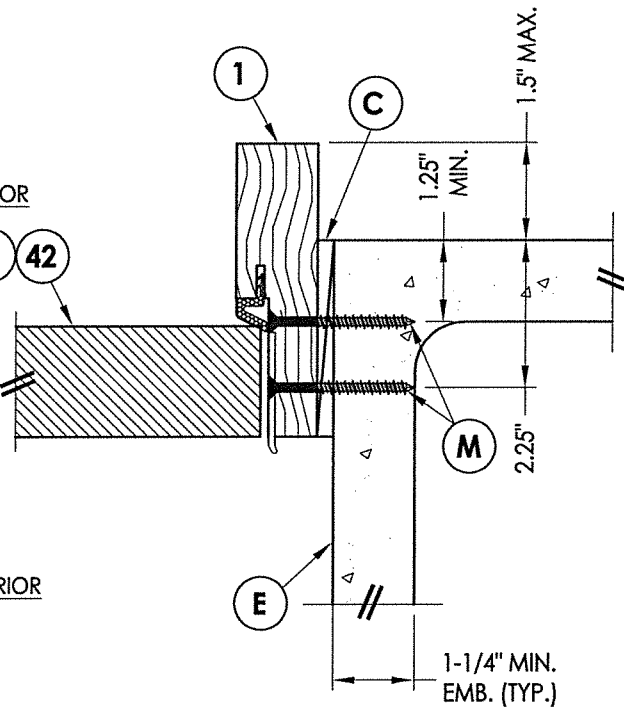


4
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

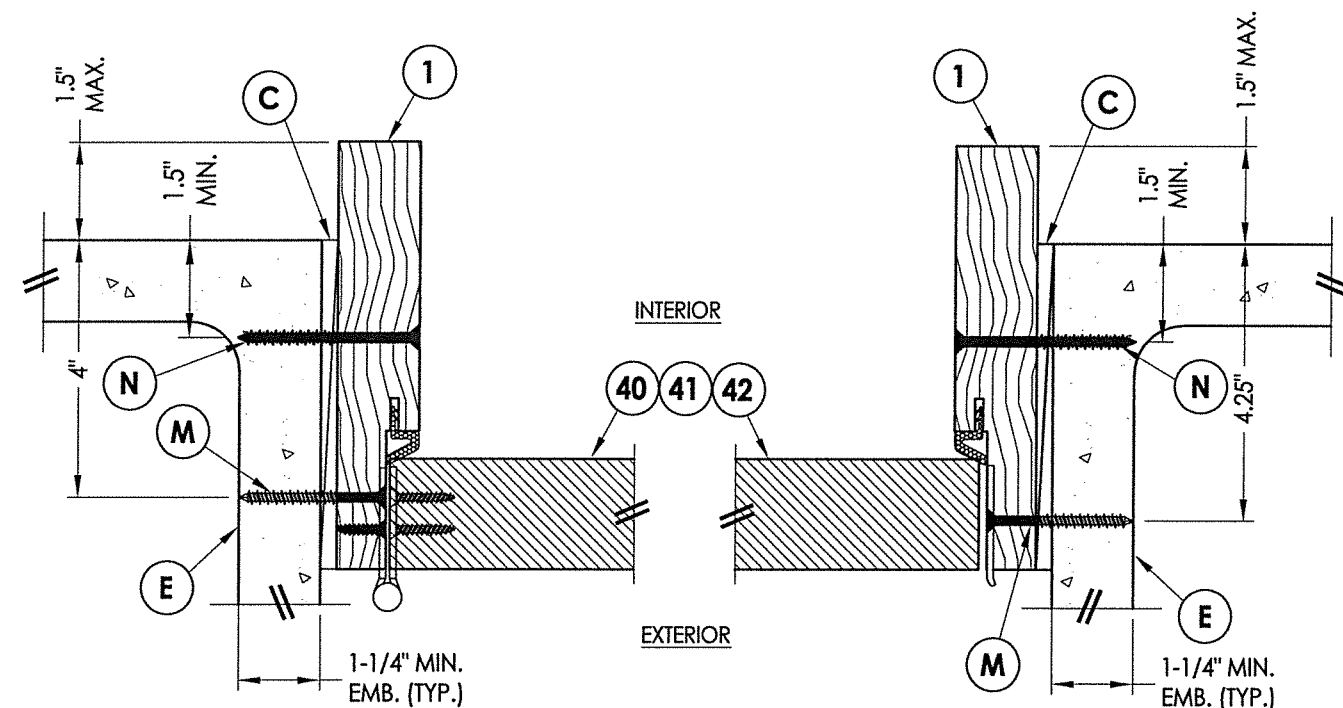
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 55 PSF
w/ SECURITY STRIKE = ± 65 PSF



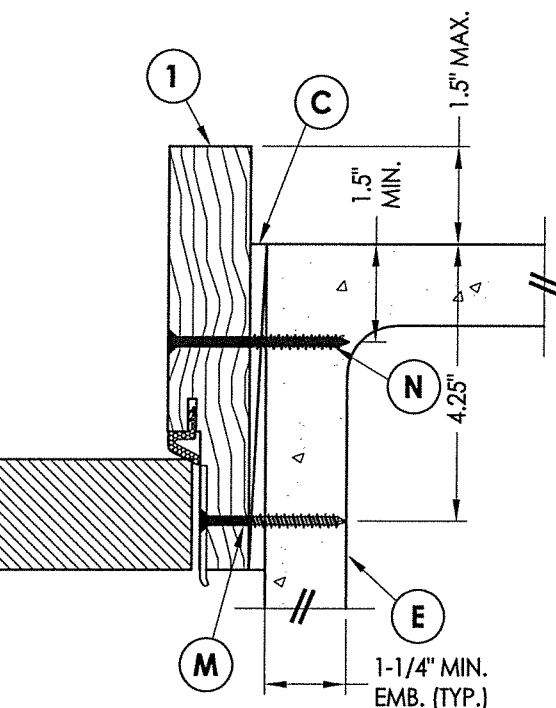
2
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



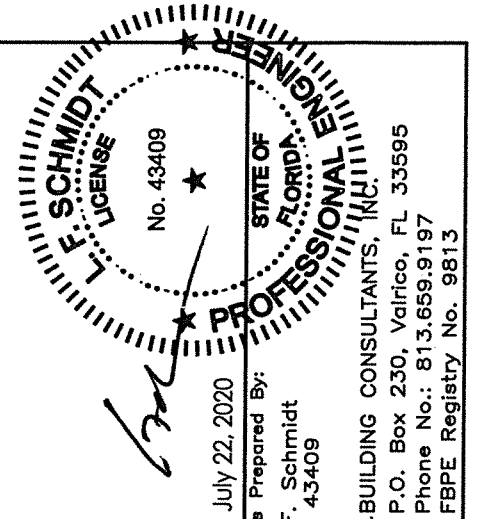
3
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



5
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



6
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



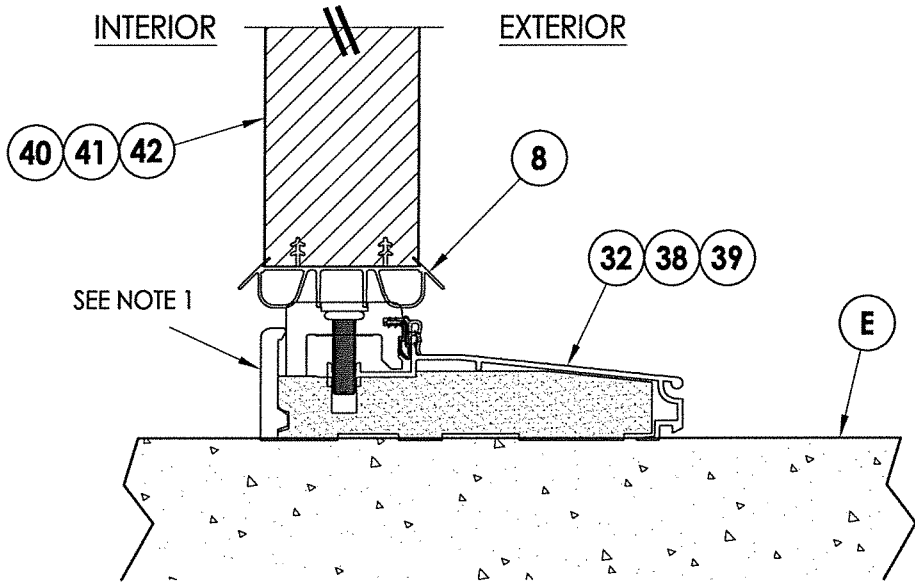
July 22, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)	
NO.	DATE	BY	REVISIONS
4	7/21/20	JK	UPDATE TO 7th ED (2020) FBC
3	10/09/18	MT	REV. DOOR PANEL OPTION NOTE
2	11/15/17	JK	RECESSED PANEL NOTATION
1	7/7/17	JK	UPDATE TO 6th ED (2017) FBC

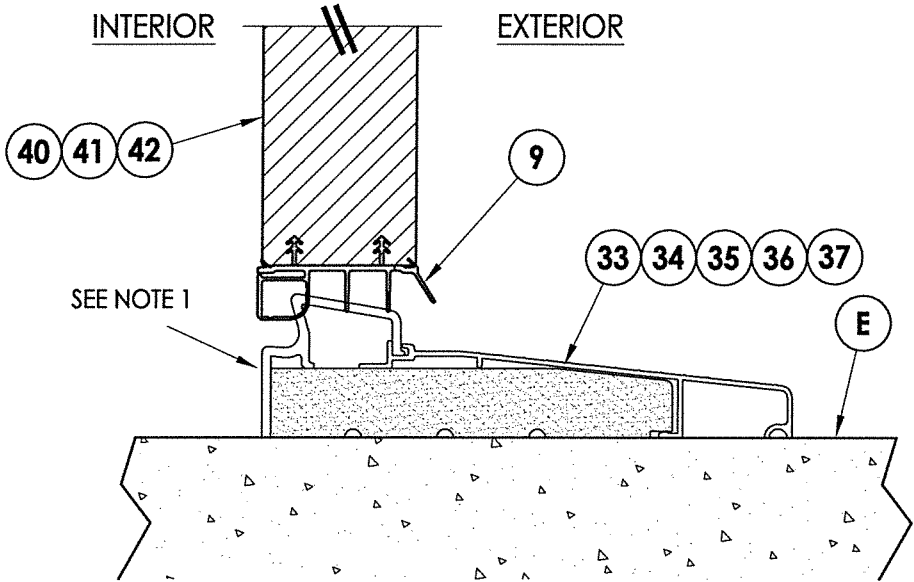
DATE: 5/26/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20461.1
SHEET 6 OF 11

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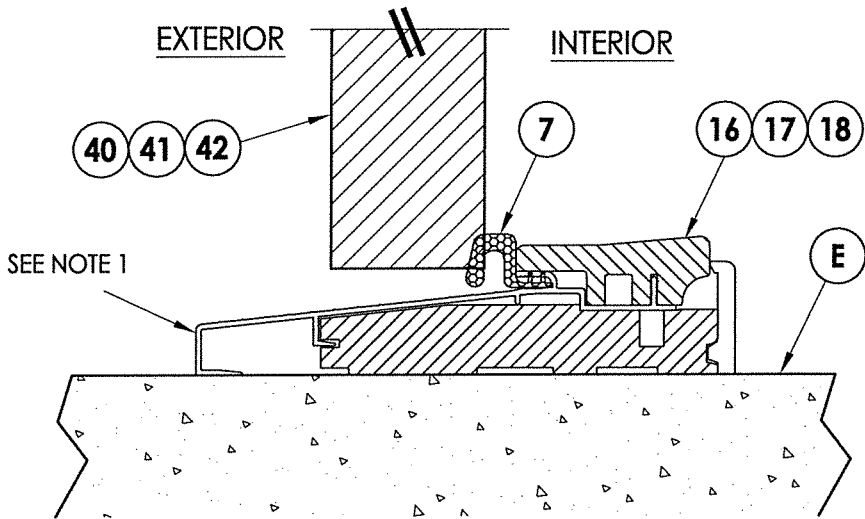
- Notes:
- 1. Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
 - Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
 - Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.



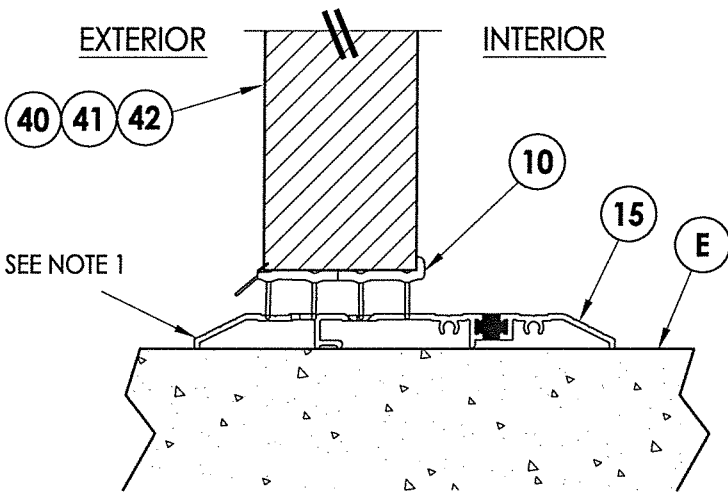
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7 VERTICAL CROSS SECTION
Inswing Sill



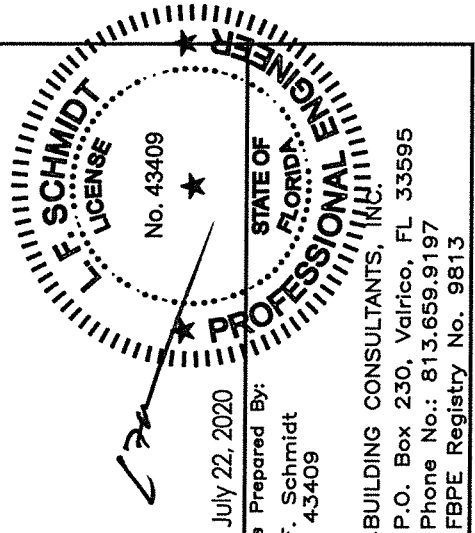
2
7 VERTICAL CROSS SECTION
Inswing Sill



3
7 VERTICAL CROSS SECTION
Outswing Sill



4
7 VERTICAL CROSS SECTION
Public Access Sill



July 22, 2020

Documents Prepared By:

Lyndon F. Schmidt

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RW BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

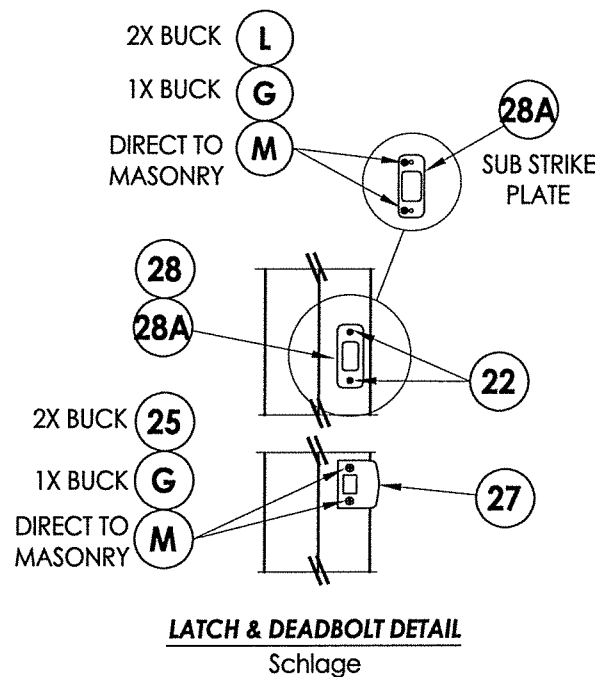
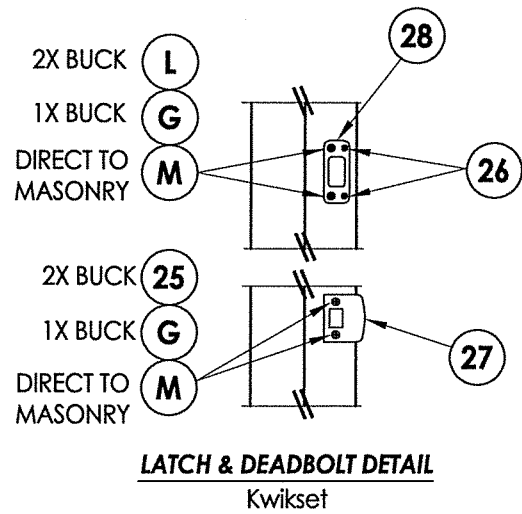
FBPE Registry No. 9813

PRODUCT:	THERMA-TRU FIBERGLASS DOOR		
	PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)		

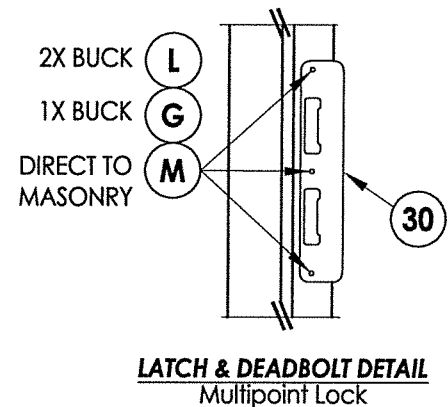
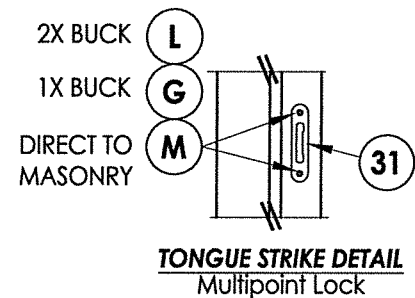
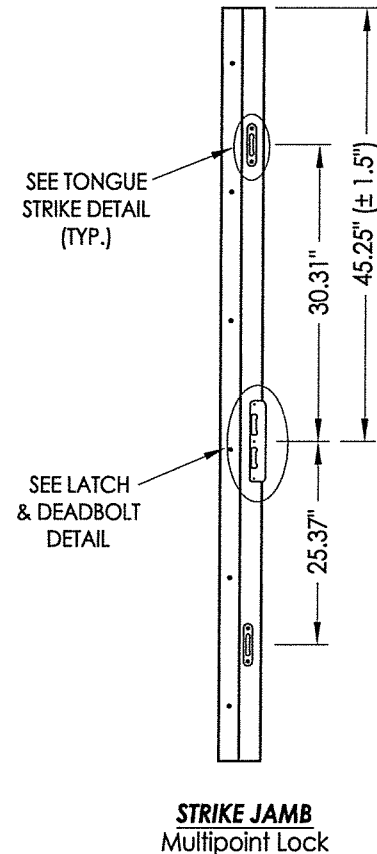
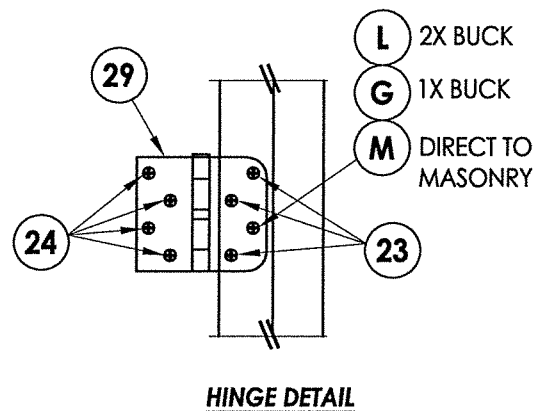
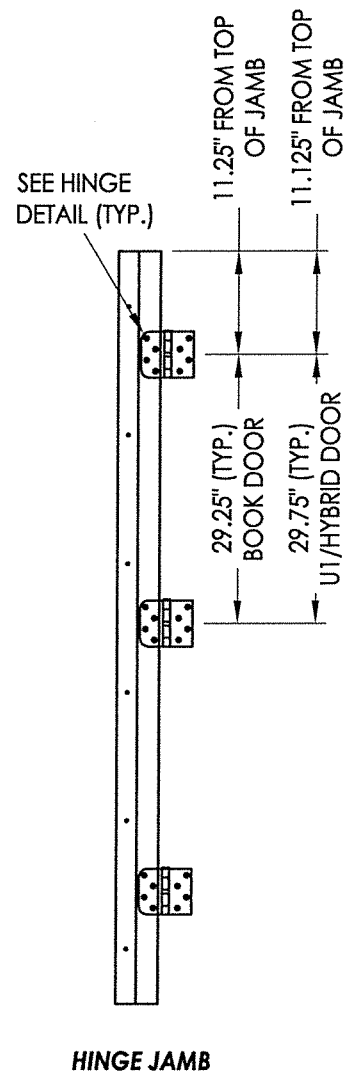
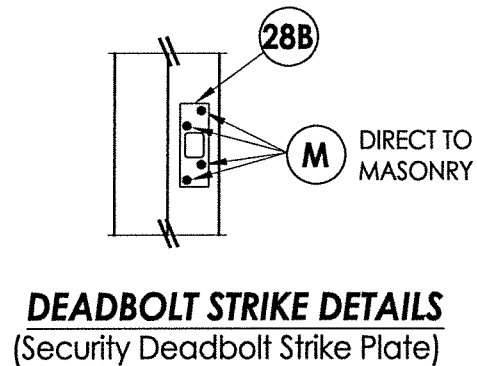
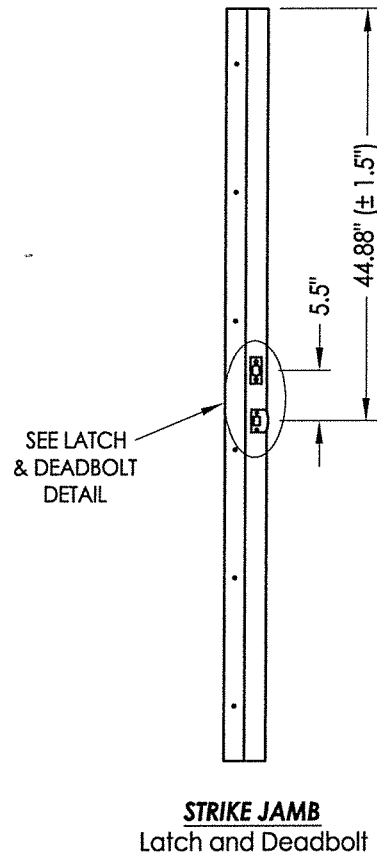
NO.	DATE	REVISIONS			
		BY	JK	JK	JK
4	7/21/20	UPDATE TO 7th ED (2020) FBC	LFS		
3	10/09/18	REV. DOOR PANEL OPTION NOTE	MT		
2	11/15/17	RECESSED PANEL NOTATION	JK		
1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK		

DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20461.1
SHEET	7 OF 11

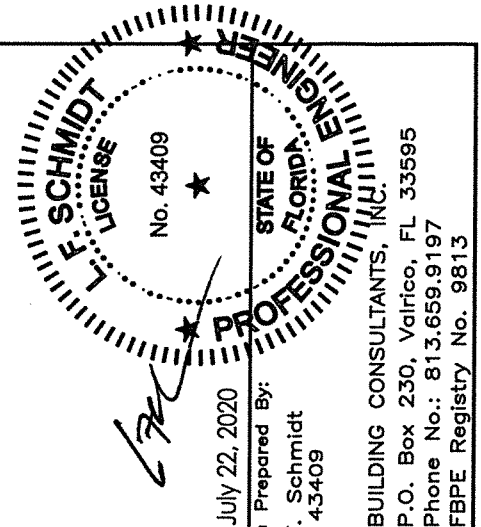
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LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)



MULTIPOINT LOCK STRIKE DETAILS



July 22, 2020
Documents Prepared By:
Lyndon F. Schmidt
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: HARDWARE DETAILS

REVISIONS			
NO.	DATE	BY	
4	7/21/20	UPDATE TO 7th ED (2020) FBC	LFS
3	10/09/18	REV. DOOR PANEL OPTION NOTE	MT
2	11/15/17	RECESSED PANEL NOTATION	JK
1	7/7/17	UPDATE TO 6th ED (2017) FBC	JK

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20461.1

SHEET 9 OF 11

Technical drawing of a roof section showing a cross-section of a roof with a 5.75 inch slope and a 1.55 inch vertical height.

A cross-sectional diagram of a roof assembly. It shows a sloped roof structure with a vertical height of 1.55" and a horizontal length of 7.5". The roof is supported by a series of vertical posts or columns. The roof surface is indicated by a dashed line, and the interior space is filled with a stippled pattern.

Technical drawing of the rear view of the seat base. The drawing shows a cross-section of the seat base with a textured interior. A horizontal dimension line at the top indicates a width of 4.56 inches. A vertical dimension line on the left indicates a height of 1.5 inches.

0.45"

1.79"

2 SWEEP

1.92"

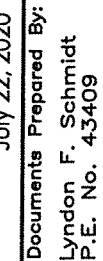
SWEEP

1 WOOD JAMB

2.06"

0.68"

SWEEP



PRODUCT: THERMA--TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

4	7/21/20	UPDATE TO 7th ED (2020)	FBC	LFS
3	10/09/18	REV. DOOR PANEL OPTION	NOTE	MT
2	11/15/17	RECESSED PANEL	NOTATION	JK
1	7/7/17	UPDATE TO 6th ED (2017)	FBC	JK
NO.	DATE	BY		
REVISIONS				

FL-20461.1

SHEET 10 OF 11

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE (STANDARD)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	29	4" X 4" HINGE	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	34	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	35	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	36	INSWING THRESHOLD	ALUM/COMP
8	SWEEP	VINYL	37	INSWING THRESHOLD	ALUM/COMP
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	38	INSWING THRESHOLD	ALUM/COMP
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	39	INSWING THRESHOLD	ALUM/COMP
15	PUBLIC ACCESS THRESHOLD	ALUM	40	DOOR PANEL (BOOK)	-
16	OUTSWING THRESHOLD	ALUM/COMP	41	DOOR PANEL (HYBRID)	-
17	OUTSWING THRESHOLD	ALUM/COMP	42	DOOR PANEL (U1)	-
18	OUTSWING THRESHOLD	ALUM/COMP			
22	#8 x 3/4" PFH WOOD SCREW	STEEL			
23	#10 x 3/4" PFH WOOD SCREW	STEEL			
24	#10 x 1" PFH WOOD SCREW	STEEL			

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 TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

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.

