

Z:\2023 FBC Drawings\Therma-Tru\FL-21132 R2\FL-21132.1-5.dwg

WOOD EDGE

OPAQUE STEEL SINGLE DOOR

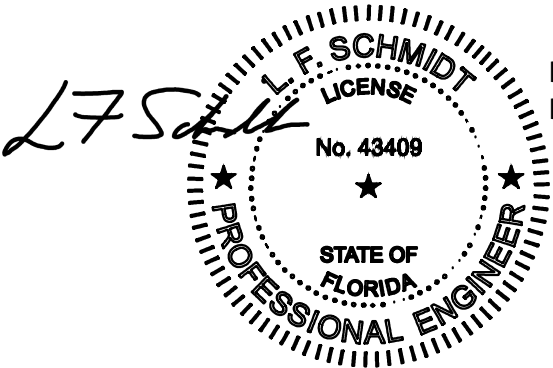
INSWING/OUTSWING

"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 includes 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.

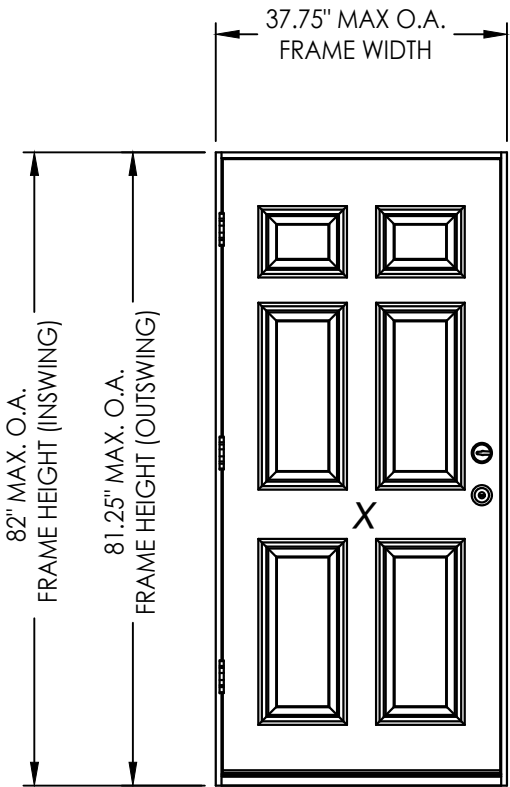
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Digitally signed by Lyndon F Schmidt
Date: 2023.08.07 15:44:14 -04'00'

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
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must be verified on any electronic copies.

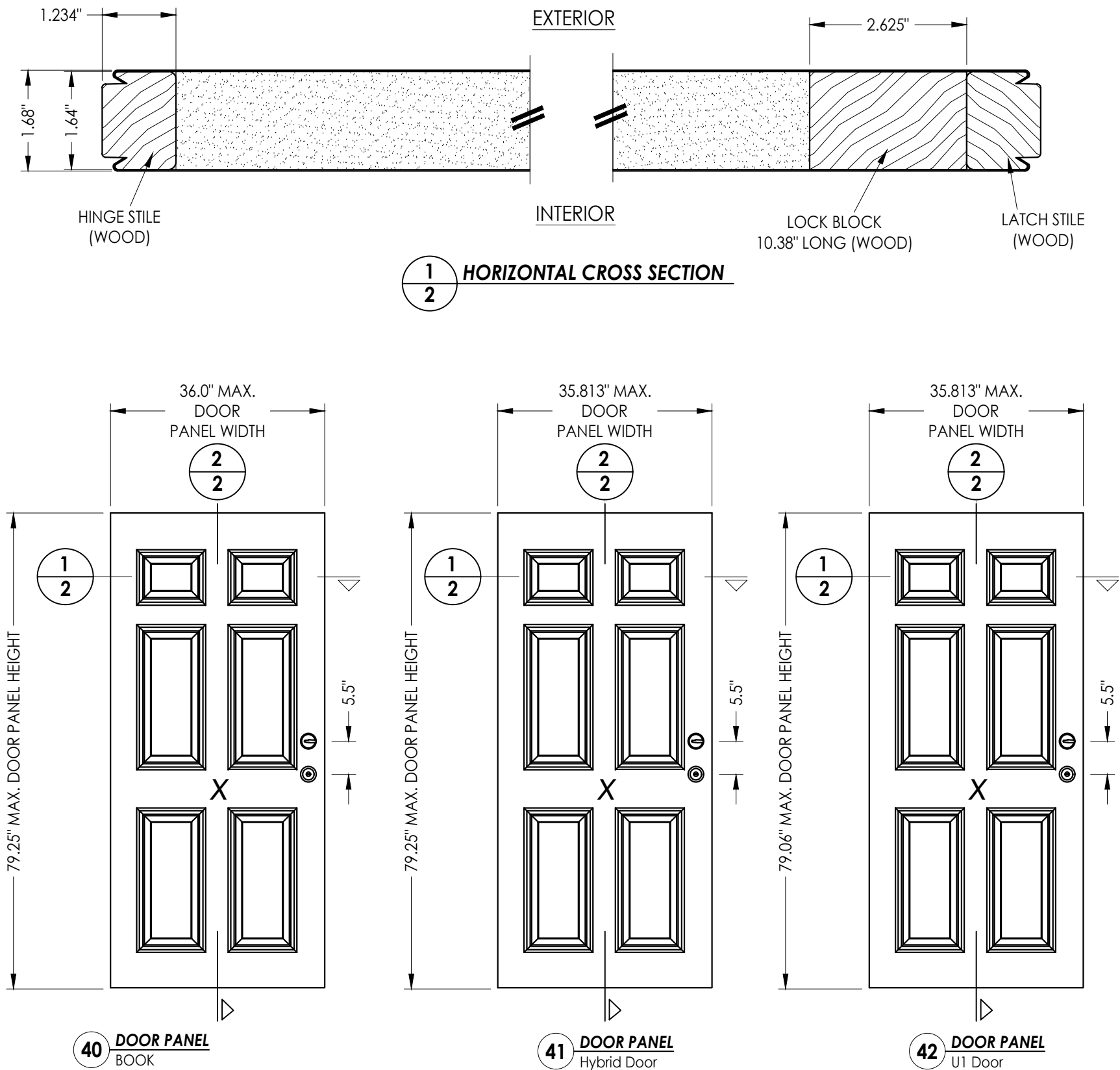
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



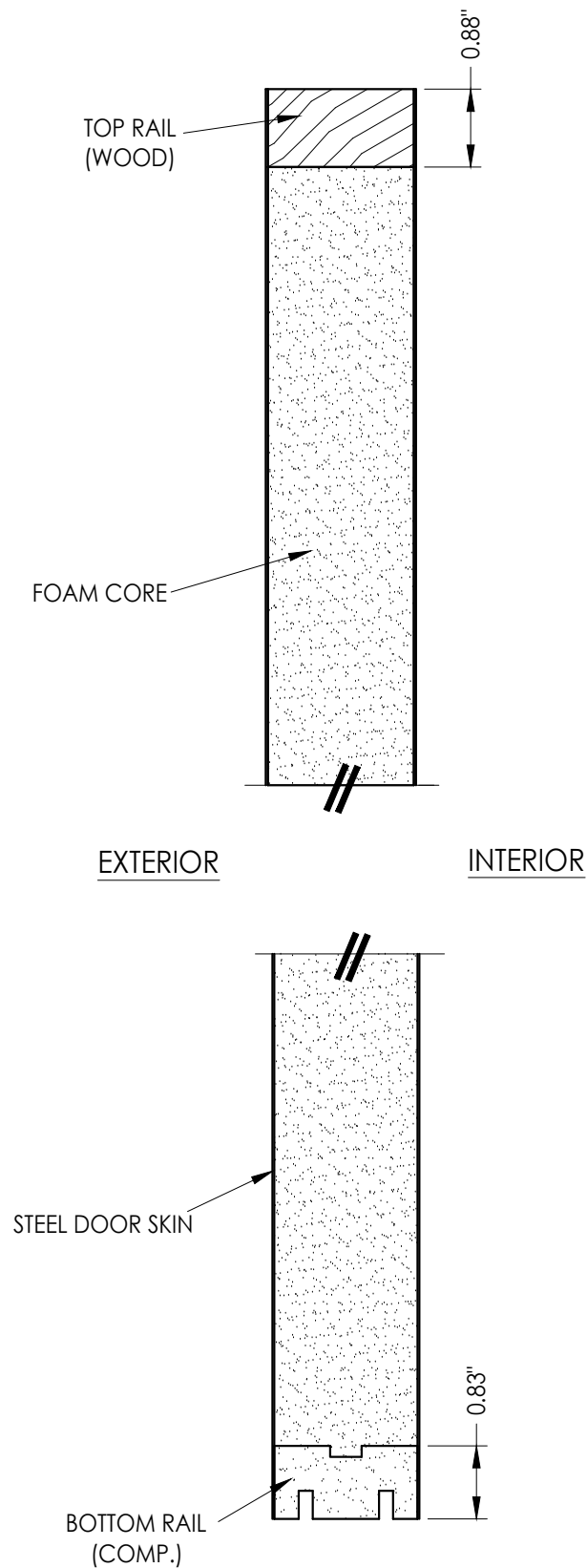
CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	+75.0	-75.0	+75.0	-75.0

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: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES		REVISIONS			
				2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC
				1	7/20/20	UPDATE TO 7th ED (2020)	FBC
				NO.	DATE		BY
DATE: 10/11/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21132.1							
SHEET 1 OF 12							

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1
2 HORIZONTAL CROSS SECTION

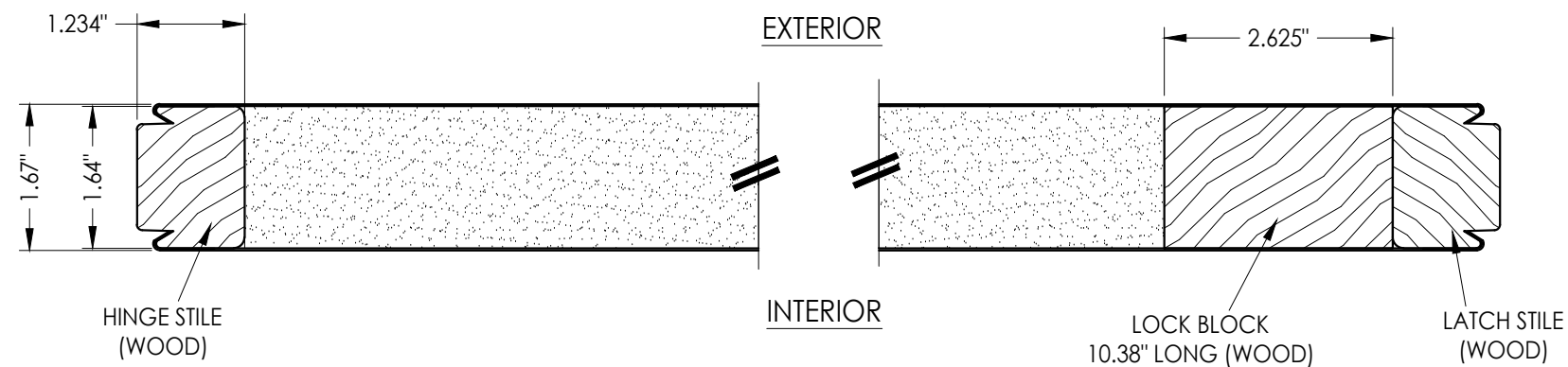


2
2 VERTICAL CROSS SECTION

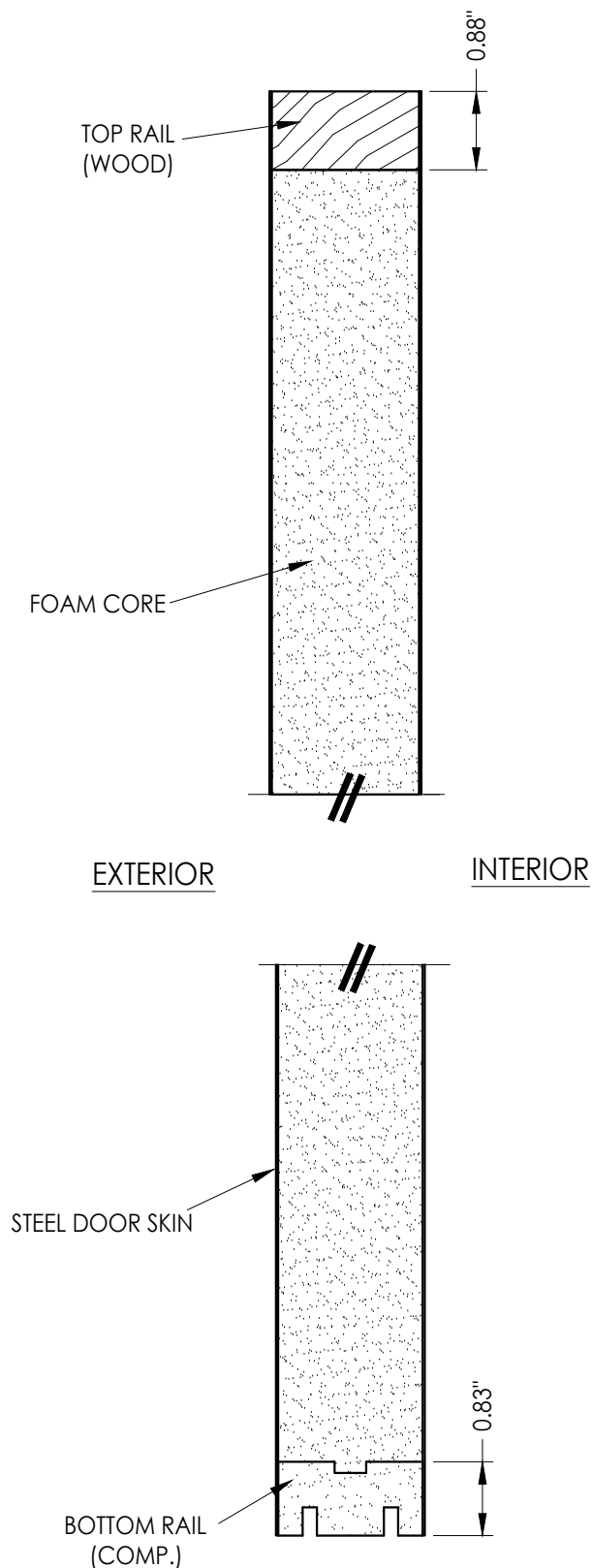
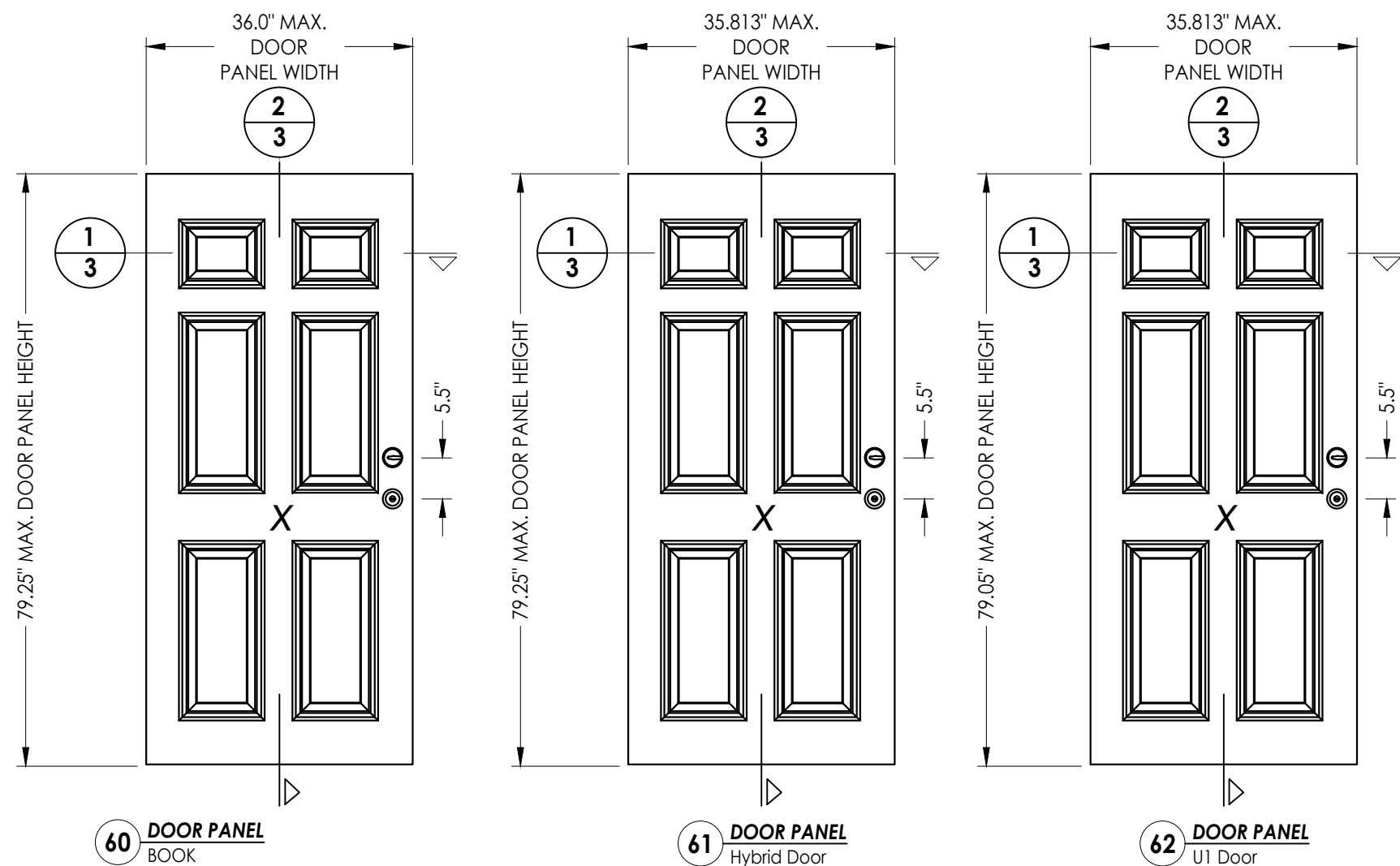
"PROFILES" SERIES DOOR PANEL

STEEL DOOR SKIN: 24 GA. (0.022" MIN. THICKNESS, Fy = 48,470 PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

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: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: "PROFILES" DOOR PANEL DETAILS	
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	7/20/20	UPDATE TO 7th ED (2020)	FBC LFS
NO.	DATE		BY
REVISIONS			
DATE: 10/11/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.1			
SHEET 2 OF 12			



1 **HORIZONTAL CROSS SECTION**
3



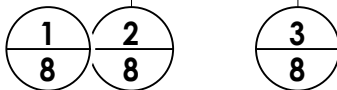
2 VERTICAL CROSS SECTION

"TRADITIONS" SERIES DOOR PANEL

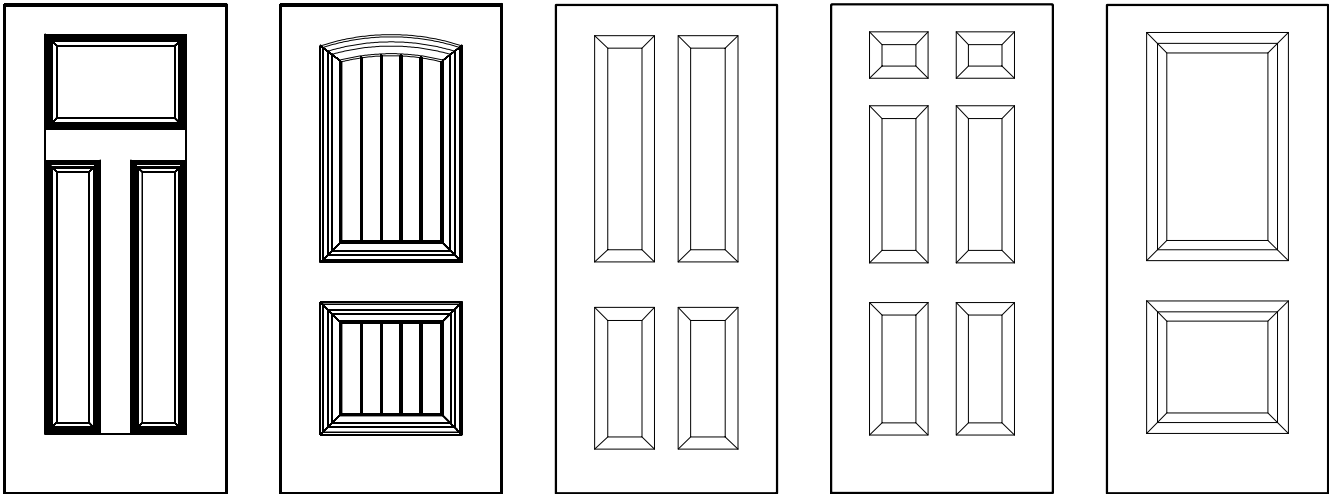
STEEL DOOR SKIN: 25 GA. (0.018" MIN. THICKNESS, $F_y = 27,830$ PSI MIN.)

FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

[illegible]

- SEE HARDWARE
CHART

MANUFACTURER	MODEL	
SCHLAGE	KNOB: F51 DEADBOLT: B60	
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)	



PROFILES/TRADITIONS Steel Door Panel Options

Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

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FBPE Registry No. 9813

THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:

ELEVATIONS

2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
1	7/20/20	UPDATE TO 7th ED (2020)	FBC	LFS
NO.	DATE			BY

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

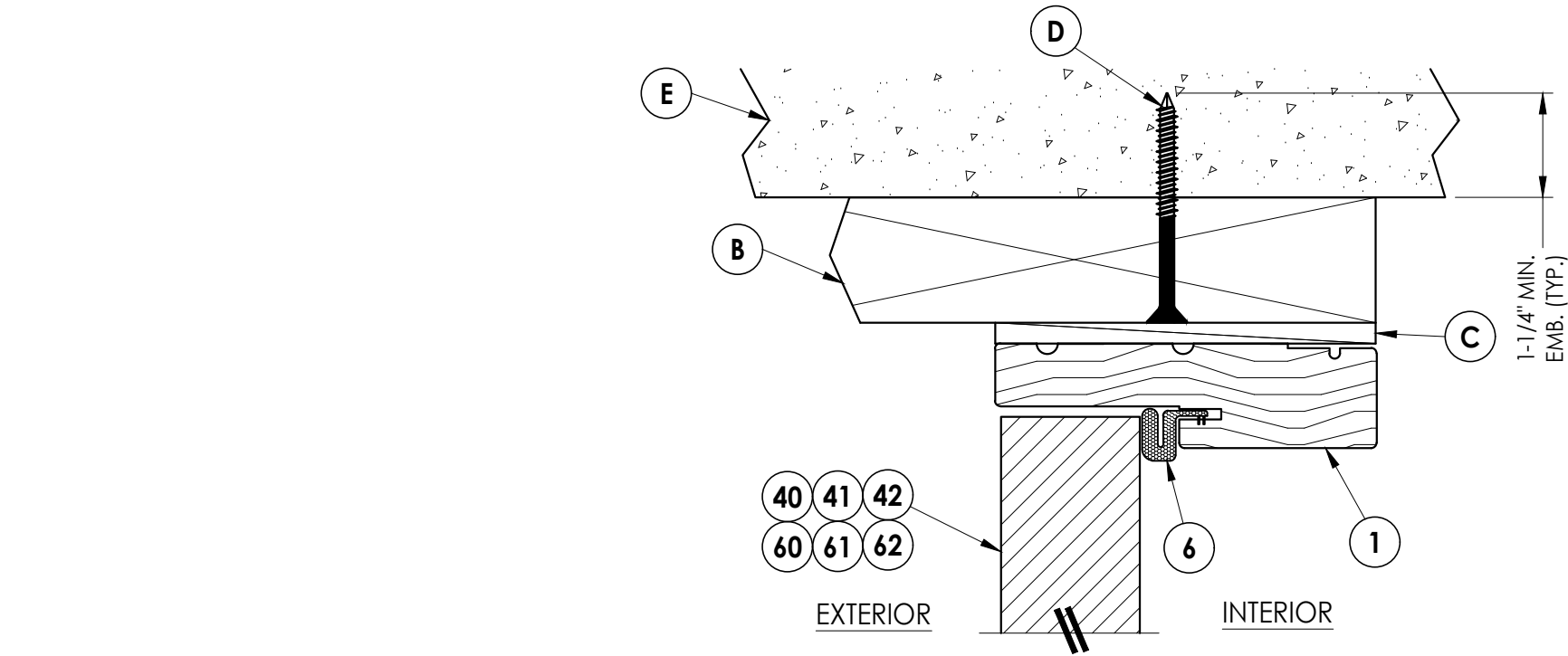
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FL-21132.1

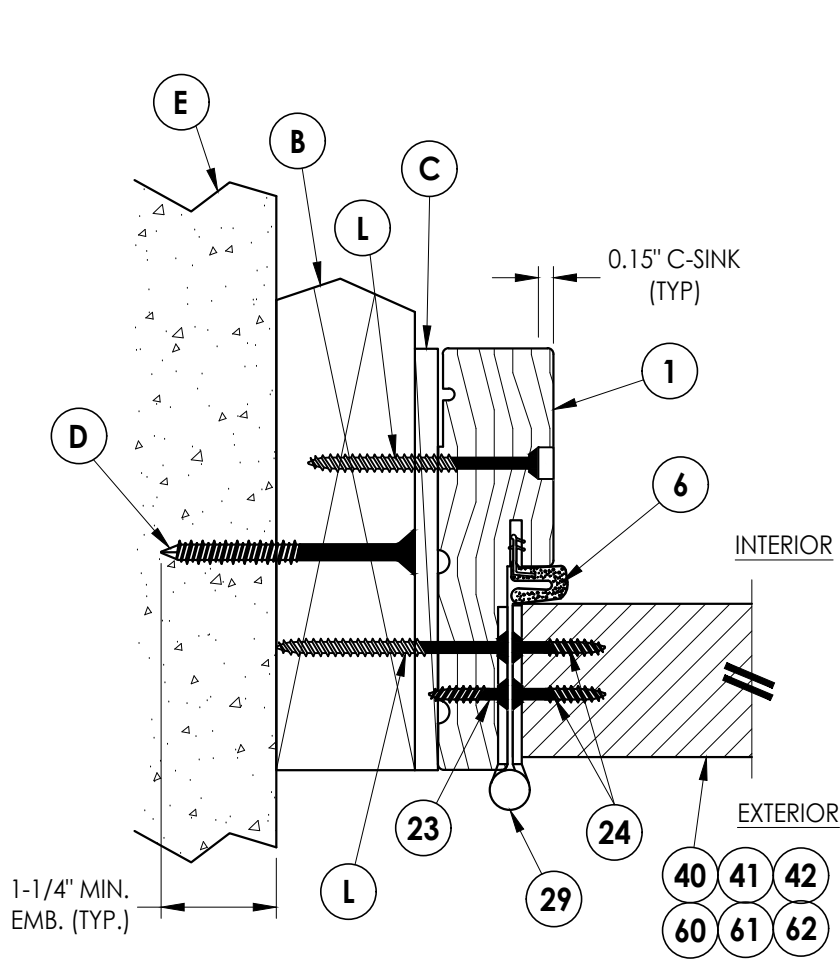
SHEET 4 OF 12

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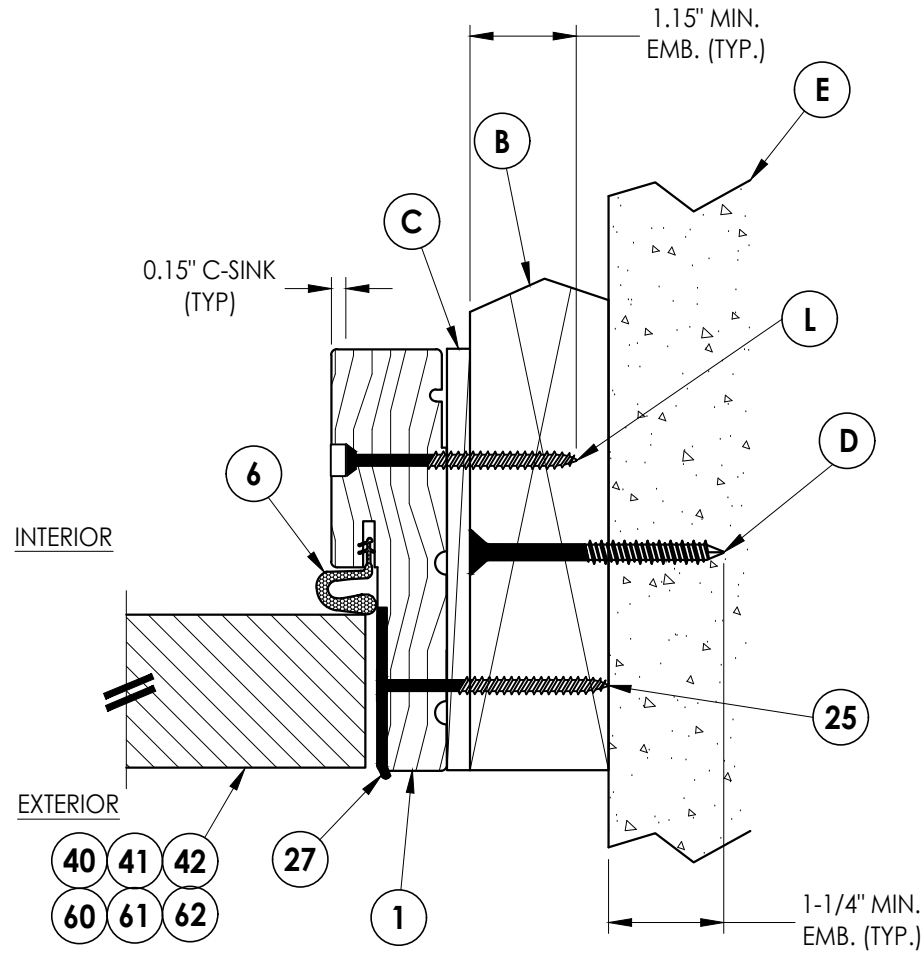
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1
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

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

PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC
1	7/20/20	UPDATE TO 7th ED (2020) FBC
1		BY

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

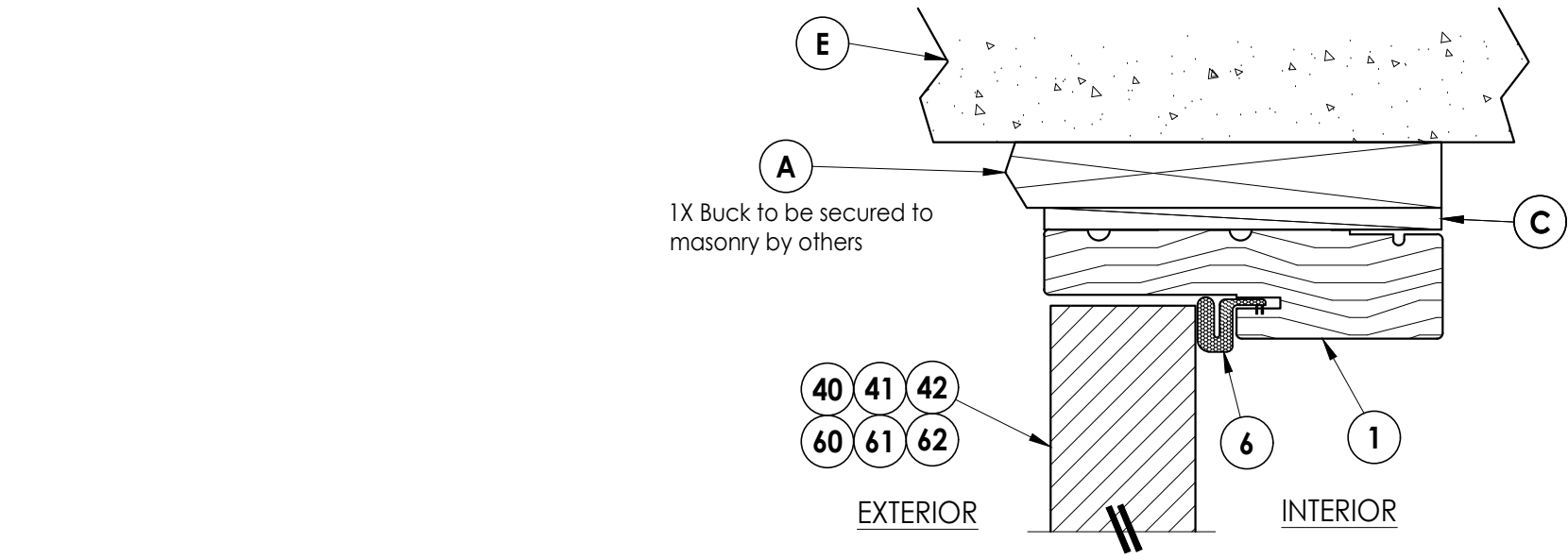
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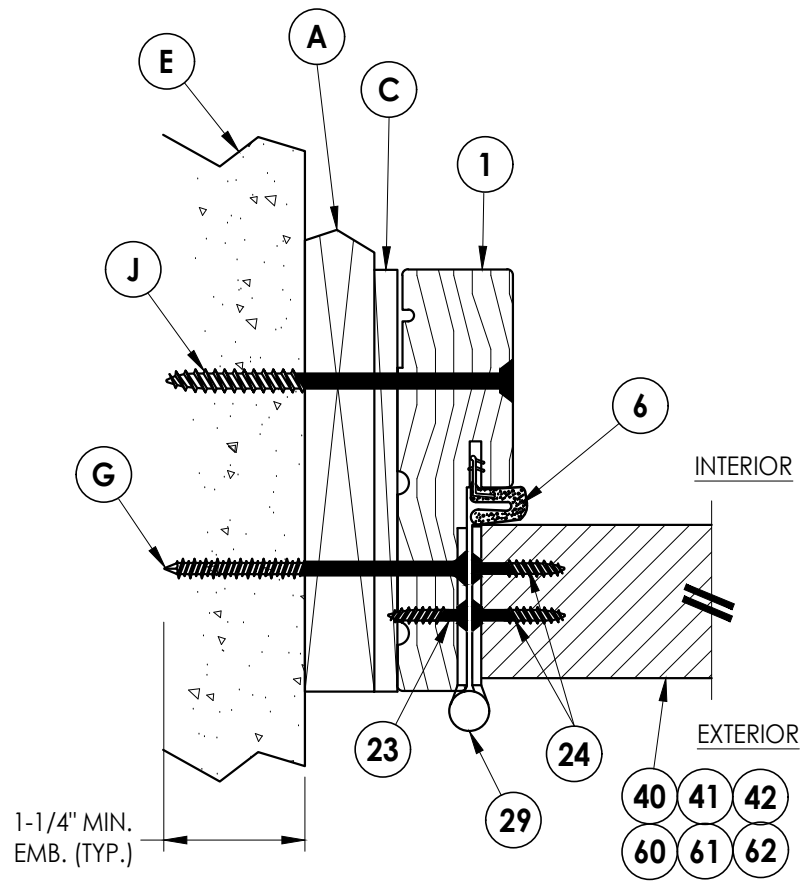
FL-21132.1

SHEET 5 OF 12

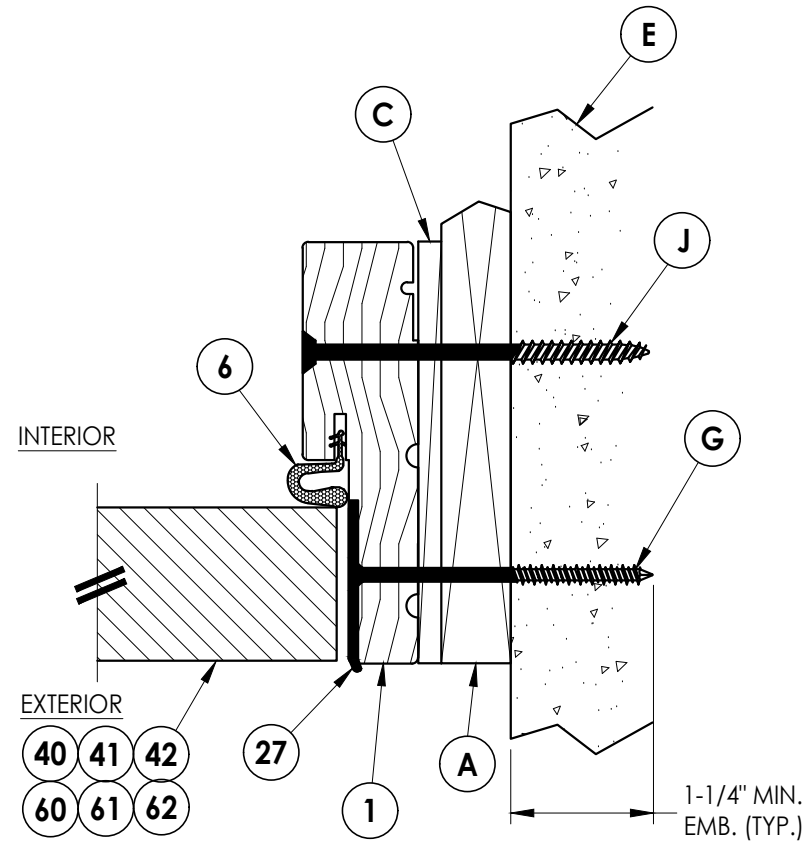
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1 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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



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

Documents Prepared By:
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P.E. No. 43409

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

PRODUCT: **THERMA-TRU STEEL DOOR**
PART OR ASSEMBLY: **HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)**

REVISIONS			
NO.	DATE	BY	
2	8/07/23	LFS	UPDATE TO 8TH ED. (2023) FBC
1	7/20/20	FBC	UPDATE TO 7th ED (2020) FBC

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21132.1

SHEET 6 OF 12

1. Sill Item #'s 16, 32, 33, 36, 37, 38, 39, 43, 44, 45, 46, 47 & 48 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 17 & 18 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 screws at each end.



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OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
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NO.	DATE			BY			
						REVISIONS	

SHEET 8 OF 12

4" (TYP.)

HEAD & JAMBS (TYP.)

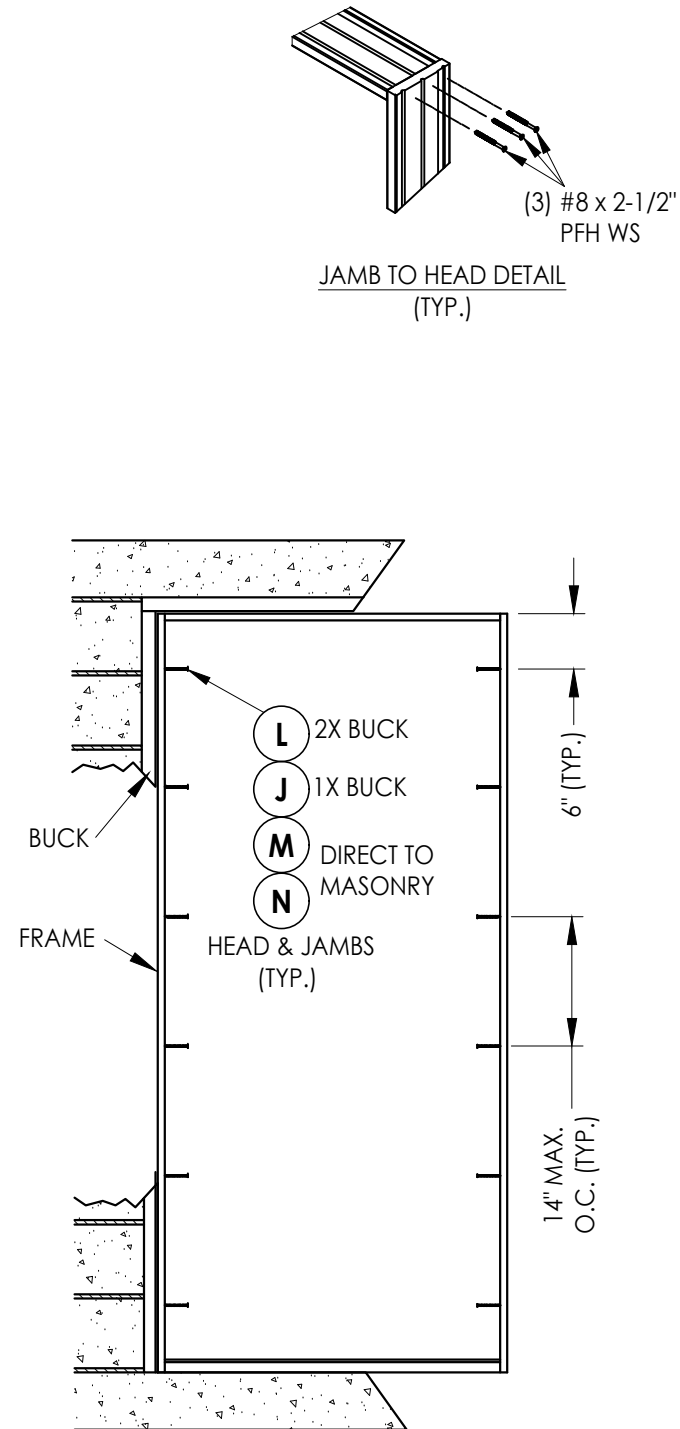
75 PSF MAX

4" (TYP.)

13" MAX. O.C. (TYP.)

2X BUCK ANCHORING

2X BUCK ANCHORING



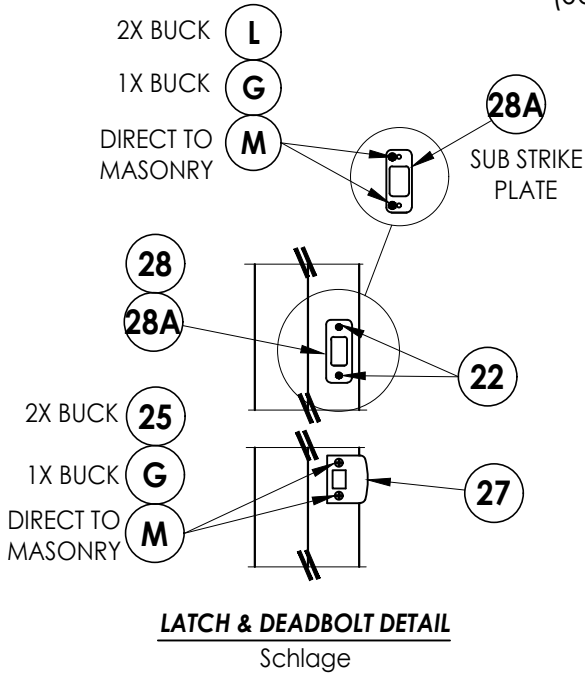
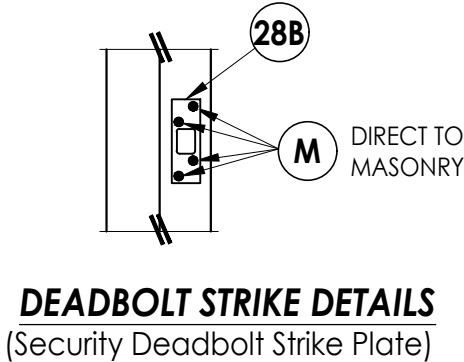
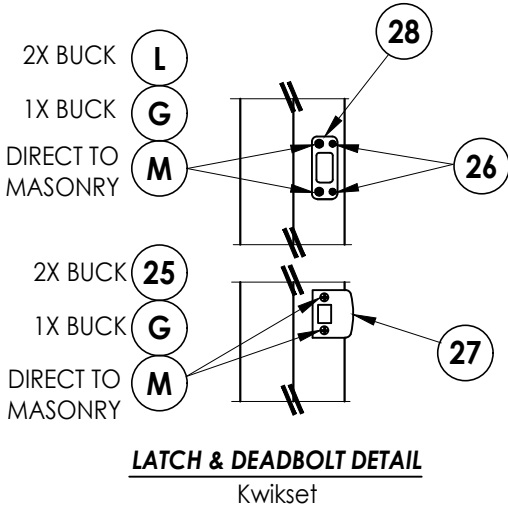
FRAME ANCHORING

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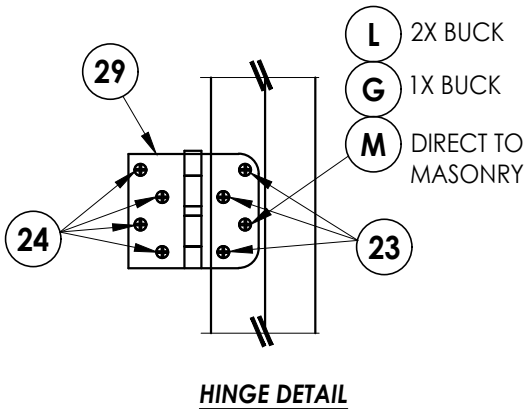
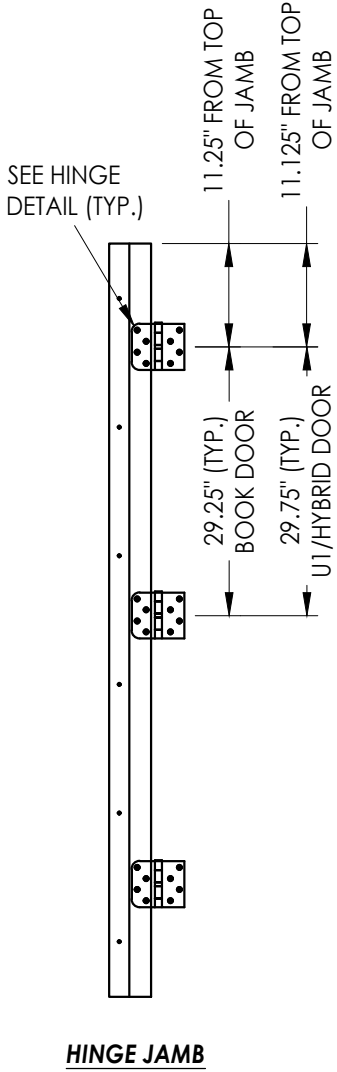
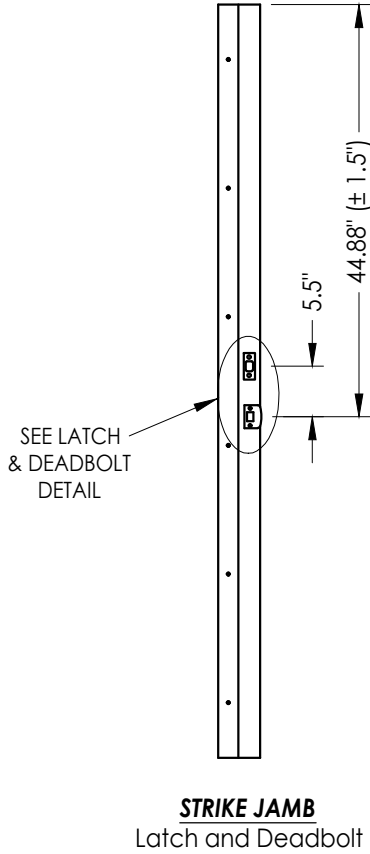
PRODUCT:	THERMA-TRU STEEL DOOR
PART OR ASSEMBLY:	BUCK & FRAME ANCHORING

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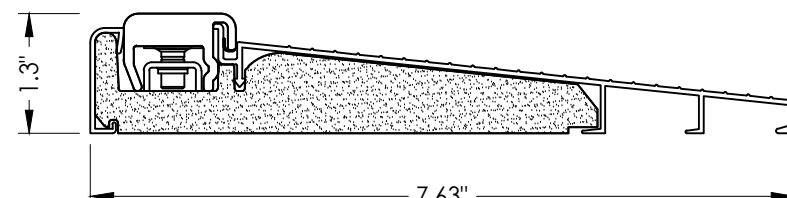
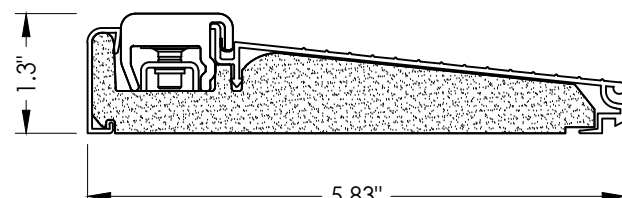
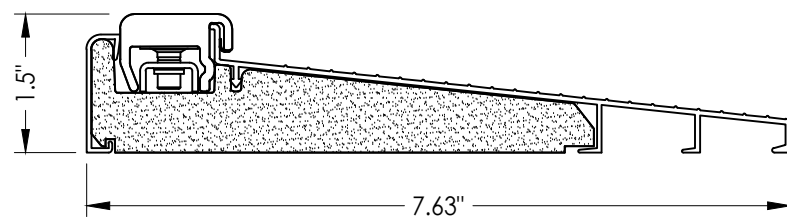
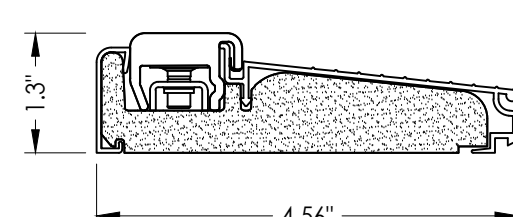
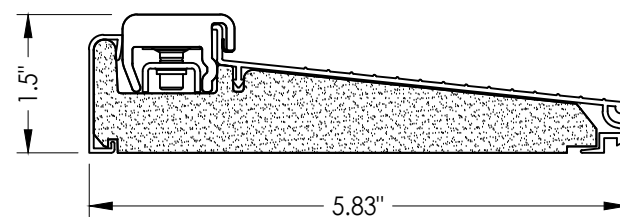
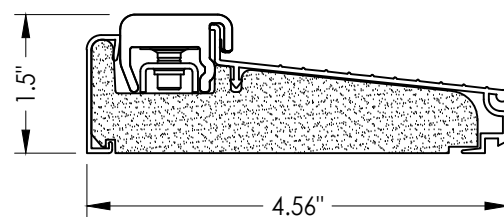
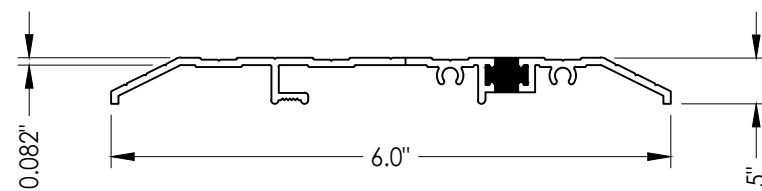
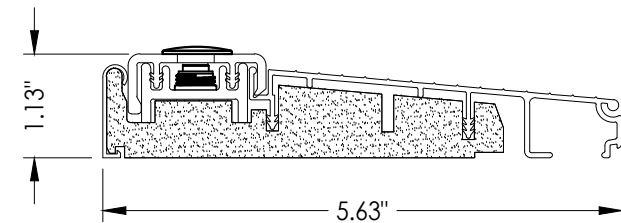
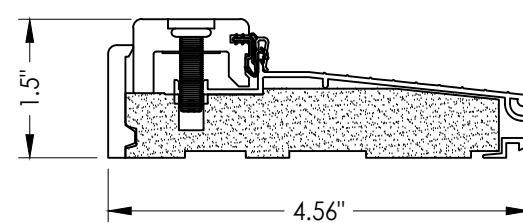
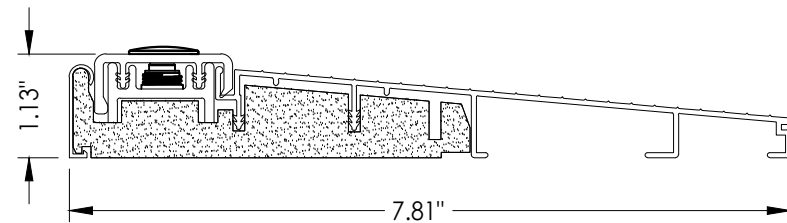
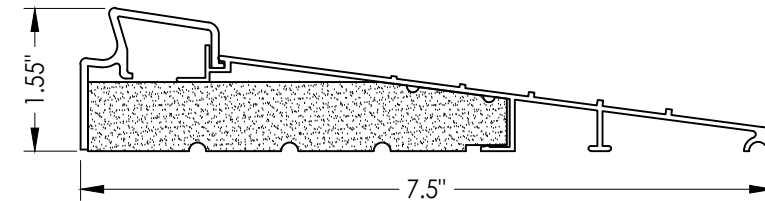
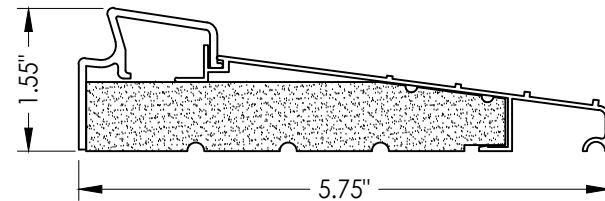
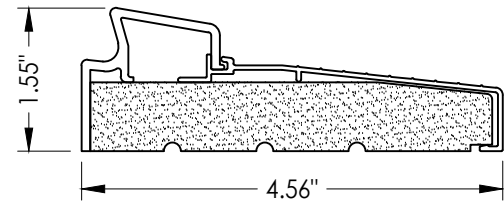
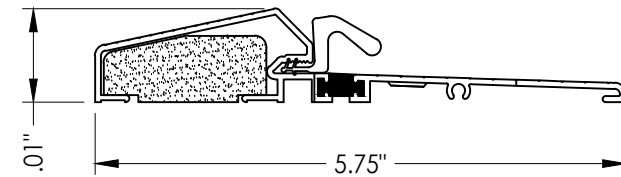
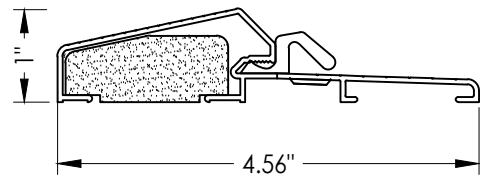
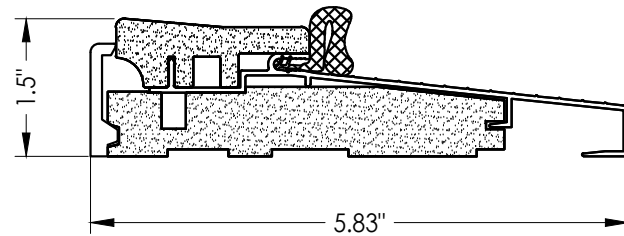
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LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)



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PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: HARDWARE DETAILS					
				2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC LFS
				1	7/20/20	UPDATE TO 7th ED (2020)	FBC LFS
				NO.	DATE		BY
				REVISIONS			
DATE: 10/11/17							
SCALE: N.T.S.							
DWG. BY: JK							
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SHEET 10 OF 12							



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1	7/20/20	UPDATE TO 7th ED (2020)	FBC	LFS		
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				REVISIONS		
DATE: 10/11/17						
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DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-21132.1						
SHEET 11 OF 12						

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

RW

BUILDING CODES
P.O. Box 23
Phone No.:
FBPE Register

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 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
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
1	JAMB (FINGER JOINT PINE)	WOOD
2	JAMB (FINGER JOINT PINE)	WOOD
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
8	SWEEP	VINYL
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP
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
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
26	#8 x 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE (STANDARD)	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
33	INSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
37	INSWING THRESHOLD	ALUM/COMP
38	INSWING THRESHOLD	ALUM/COMP
39	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL (BOOK) - "PROFILES" SERIES	-
41	DOOR PANEL (HYBRID) - "PROFILES" SERIES	-
42	DOOR PANEL (U1) - "PROFILES" SERIES	-
43	INSWING THRESHOLD	ALUM/COMP
44	INSWING THRESHOLD	ALUM/COMP
45	INSWING THRESHOLD	ALUM/COMP
46	INSWING THRESHOLD	ALUM/COMP
47	INSWING THRESHOLD	ALUM/COMP
48	INSWING THRESHOLD	ALUM/COMP
60	DOOR PANEL (BOOK) - "TRADITIONS" SERIES	-
61	DOOR PANEL (HYBRID) - "TRADITIONS" SERIES	-
62	DOOR PANEL (U1) - "TRADITIONS" SERIES	-

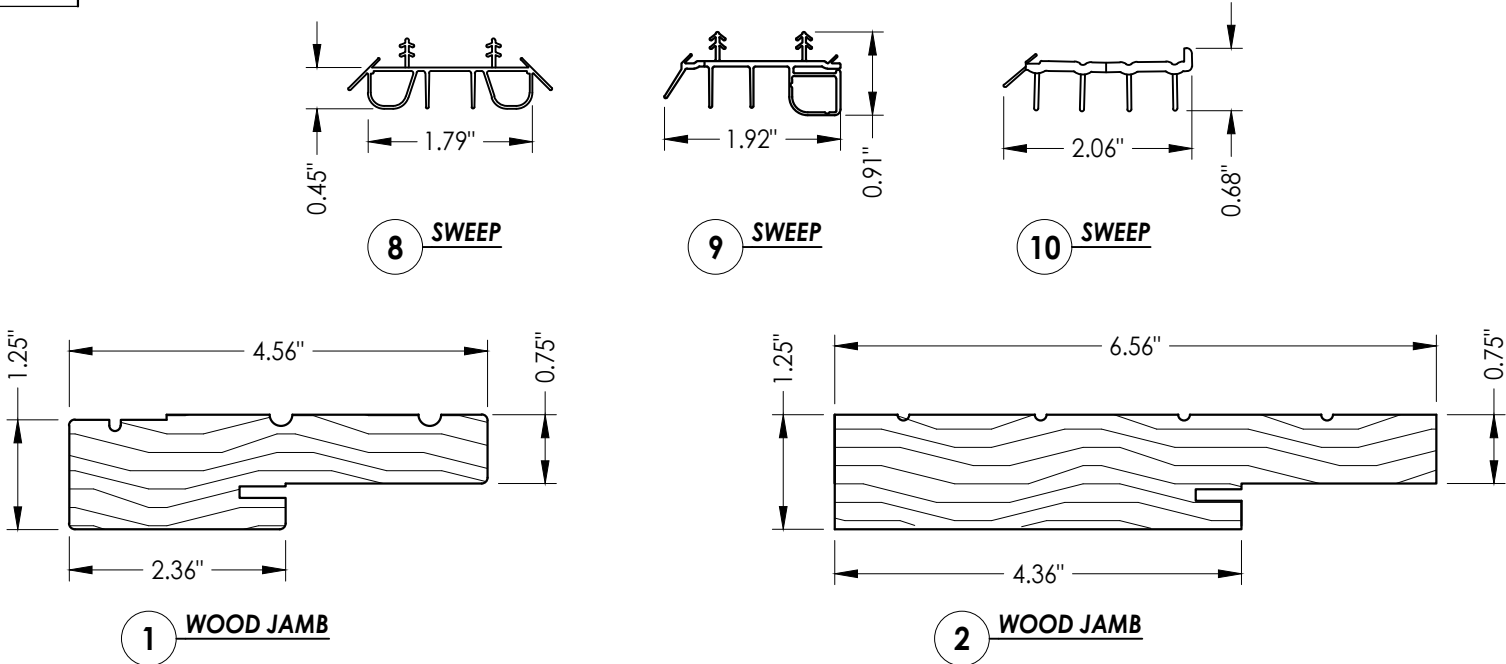
CONCRETE ANCHOR NOTES:

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

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.



Documents Prepared By:
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P.E. No. 43409

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PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
COMPONENTS &
BILL OF MATERIALS

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC
1	7/20/20	UPDATE TO 7th ED (2020) FBC
		BY

DATE: 10/11/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21132.1
SHEET 12 OF 12