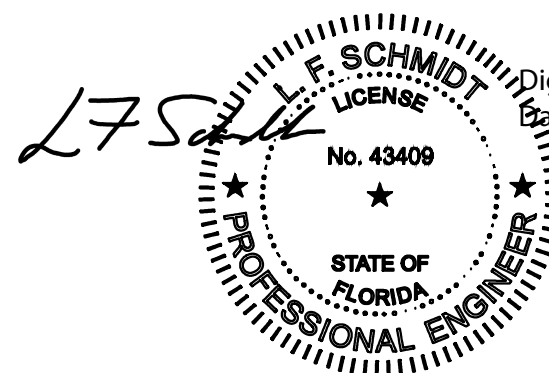


**WOOD EDGE
OPAQUE STEEL SINGLE DOOR
INSWING/OUTSWING
"NON-IMPACT"**

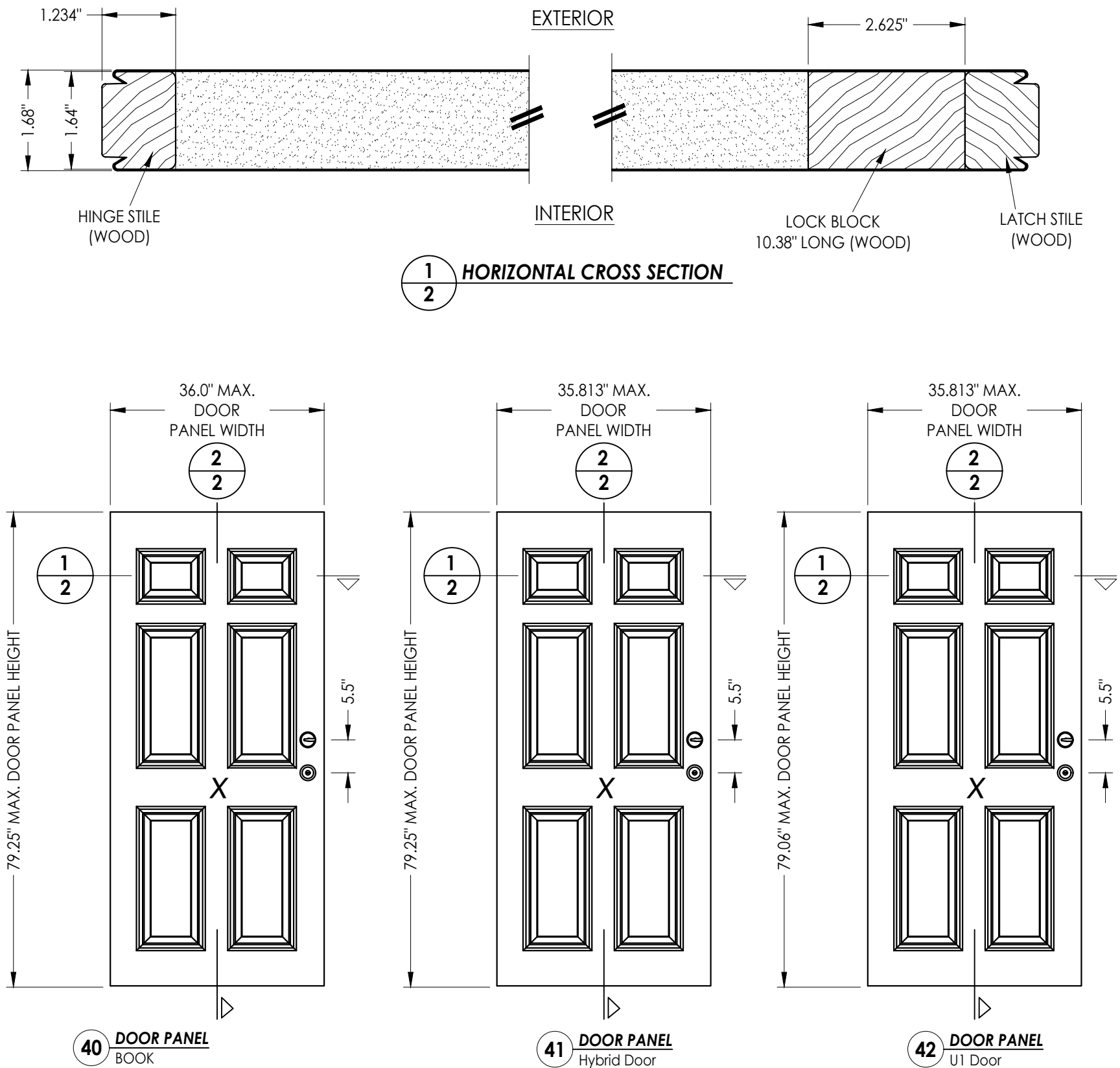
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details "Profiles"
3	Door Panel Details "Traditions"
4	Elevations
5	Horizontal & Vertical Cross Sections (2X Buck)
6	Horizontal & Vertical Cross Sections (1X Buck)
7	Horizontal & Vertical Cross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



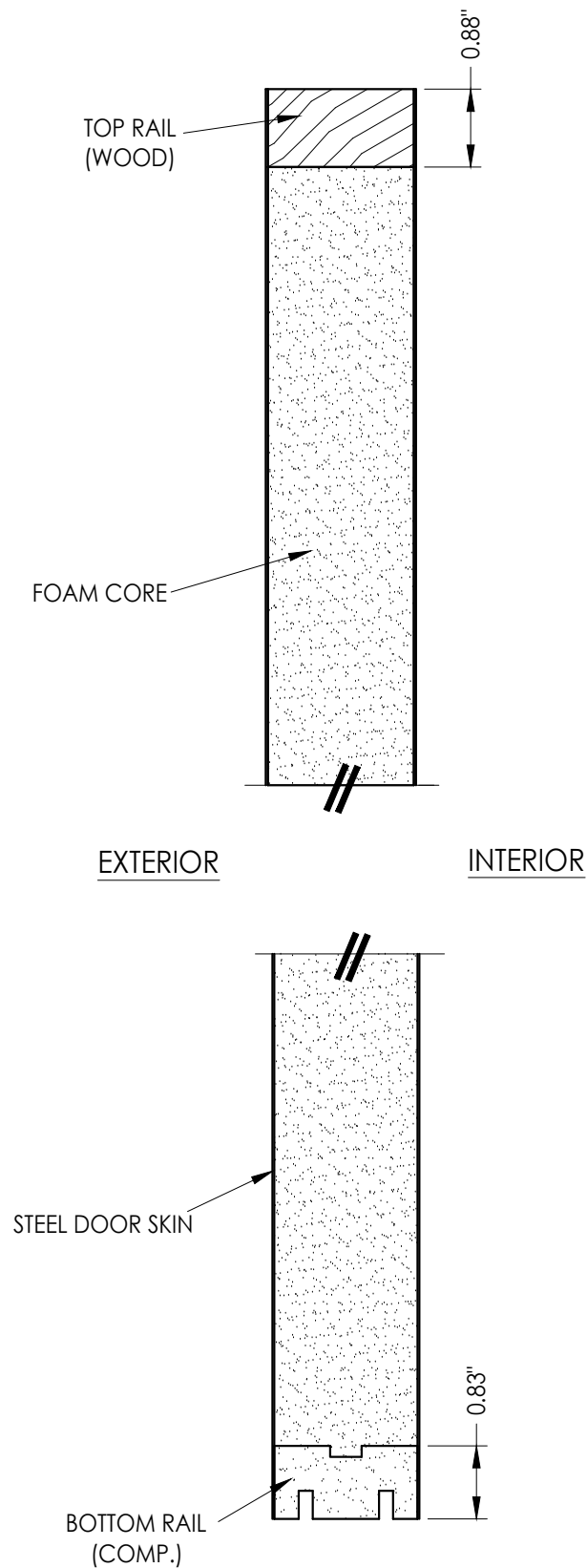
DATE: 10/11/17 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-21131.1 SHEET 1 OF 12	2 8/07/23 UPDATE TO 8TH ED. (2023) FBC LFS 1 7/14/20 UPDATE TO 7TH ED (2020) FBC LFS NO. DATE BY	PRODUCT: THERMA-TRU STEEL DOOR	PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 www.rwbuilding.com
--	--	--------------------------------------	---	--

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

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.1-3.dwg



1
2 HORIZONTAL CROSS SECTION

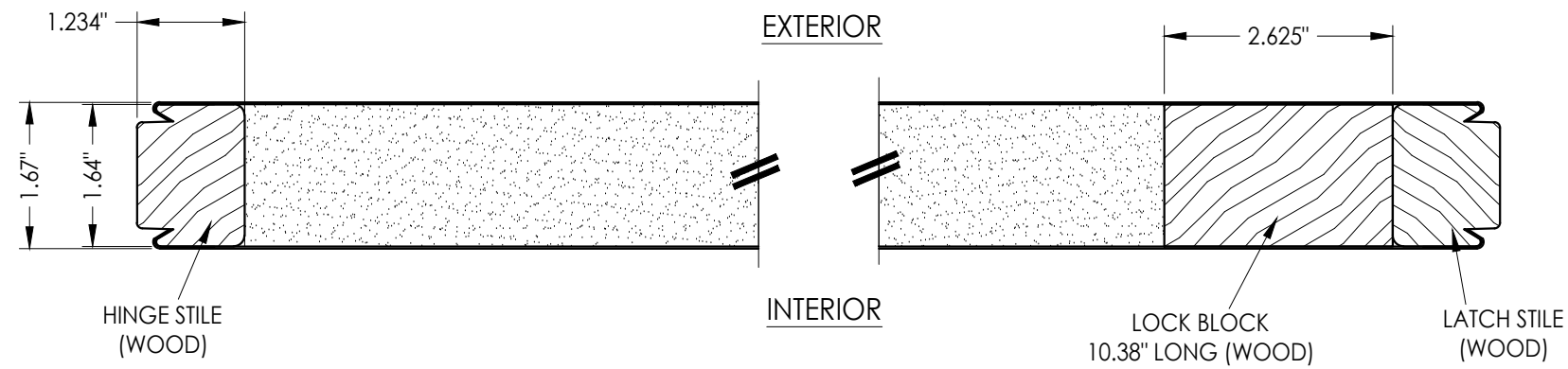


2
2 VERTICAL CROSS SECTION

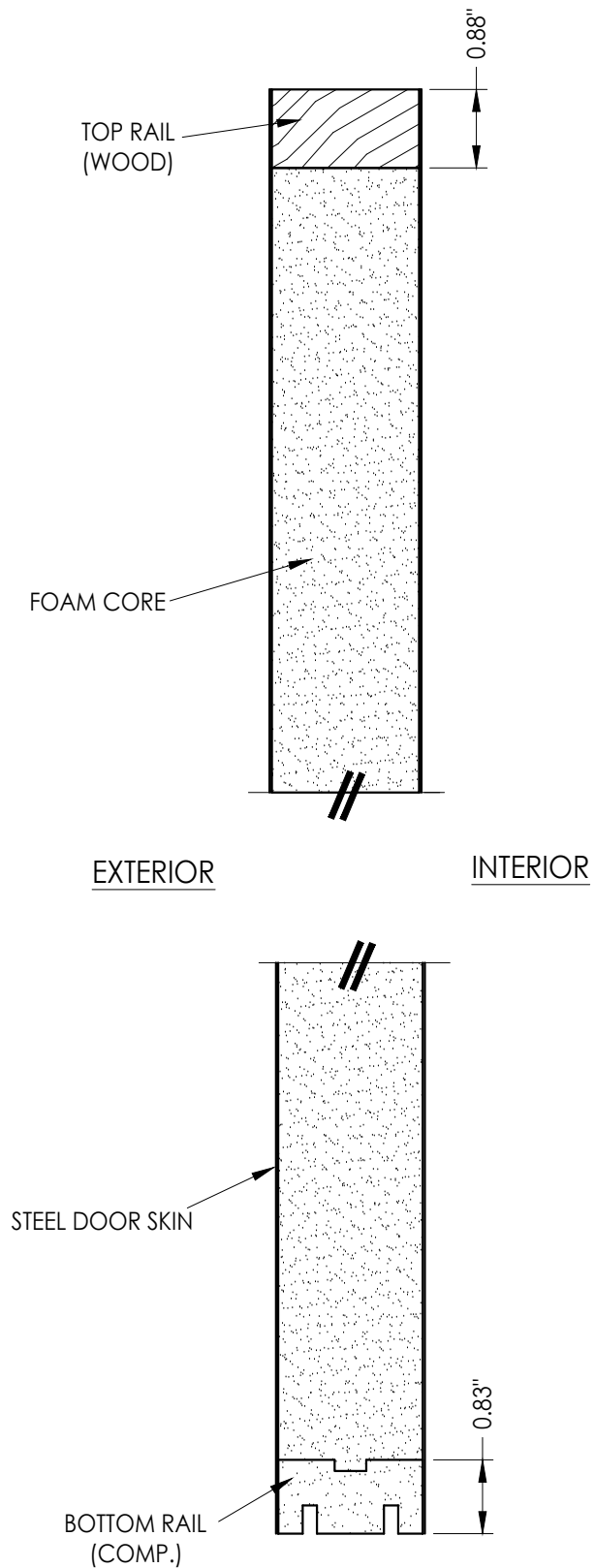
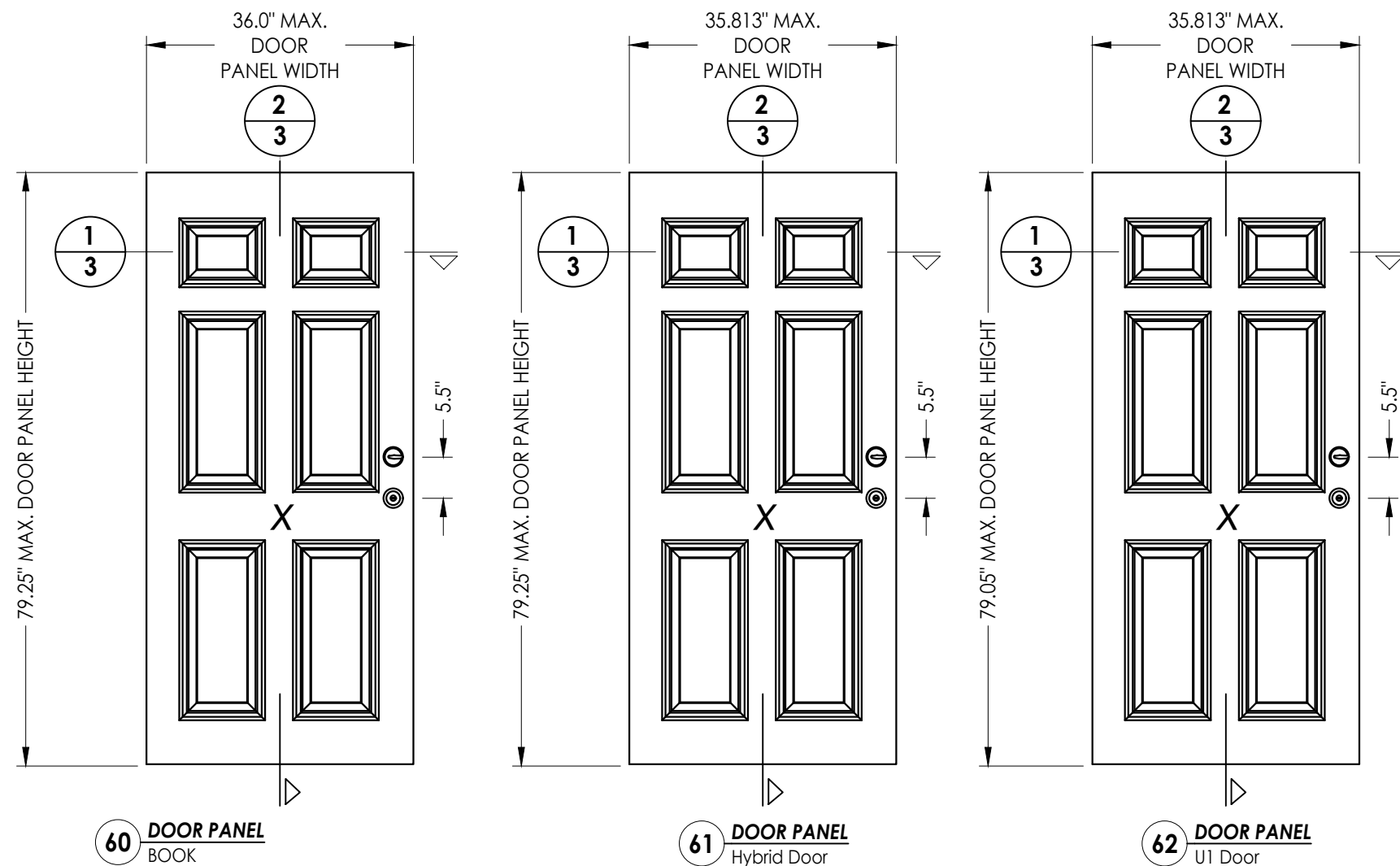
"PROFILES" SERIES DOOR PANEL

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

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1 **HORIZONTAL CROSS SECTION**
3



2 VERTICAL CROSS SECTION
3

"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.)

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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

THERMA-TRU
STEEL DOOR

FOR ASSEMBLY:
"TRADITIONS"
DOOR PANEL DETAILS

[illegible]

DATE: 10/11/17

SCALE: *N.T.S.*

DWG. BY: JK

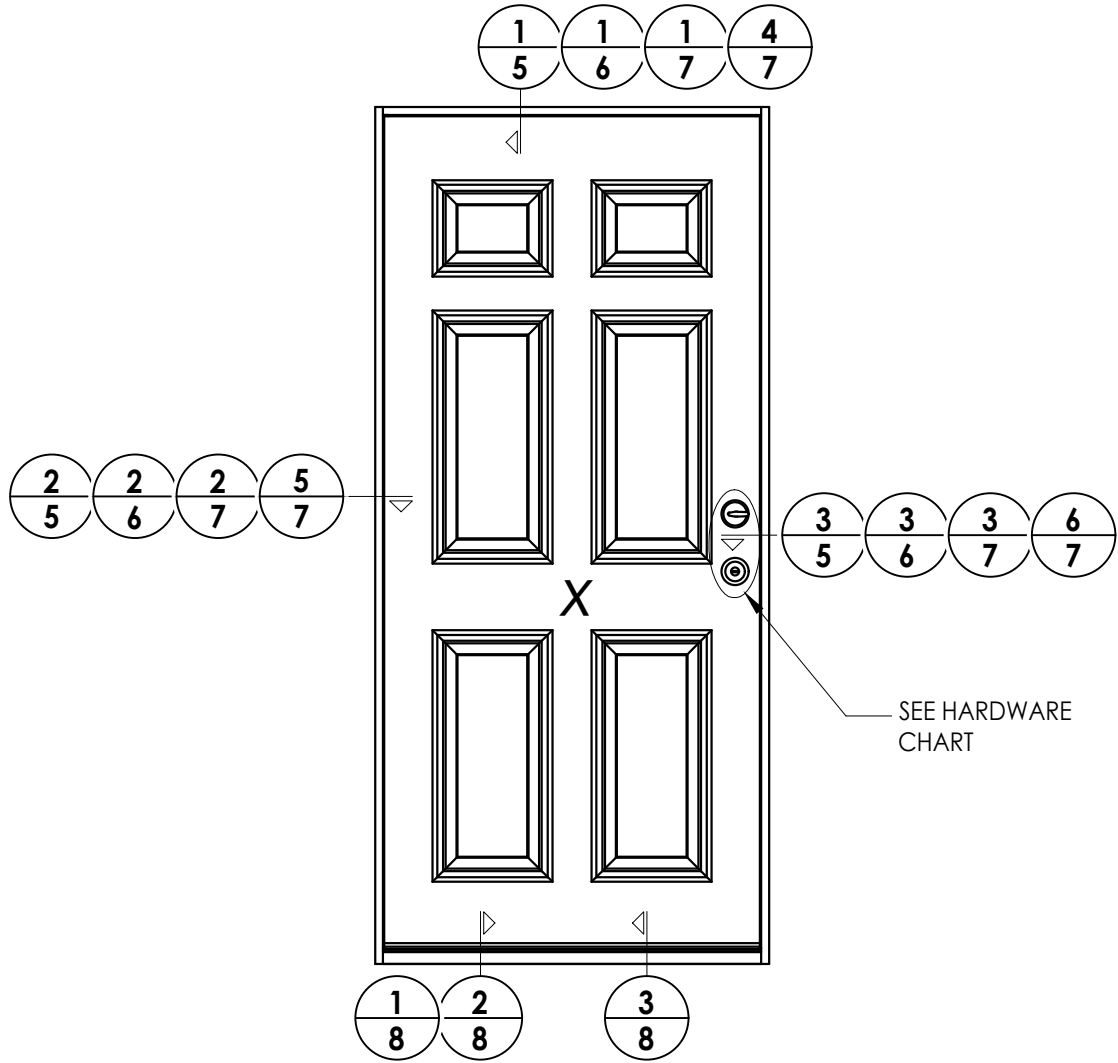
CHK. BY: LFS

DRAWING NO.:

FL-21131.1

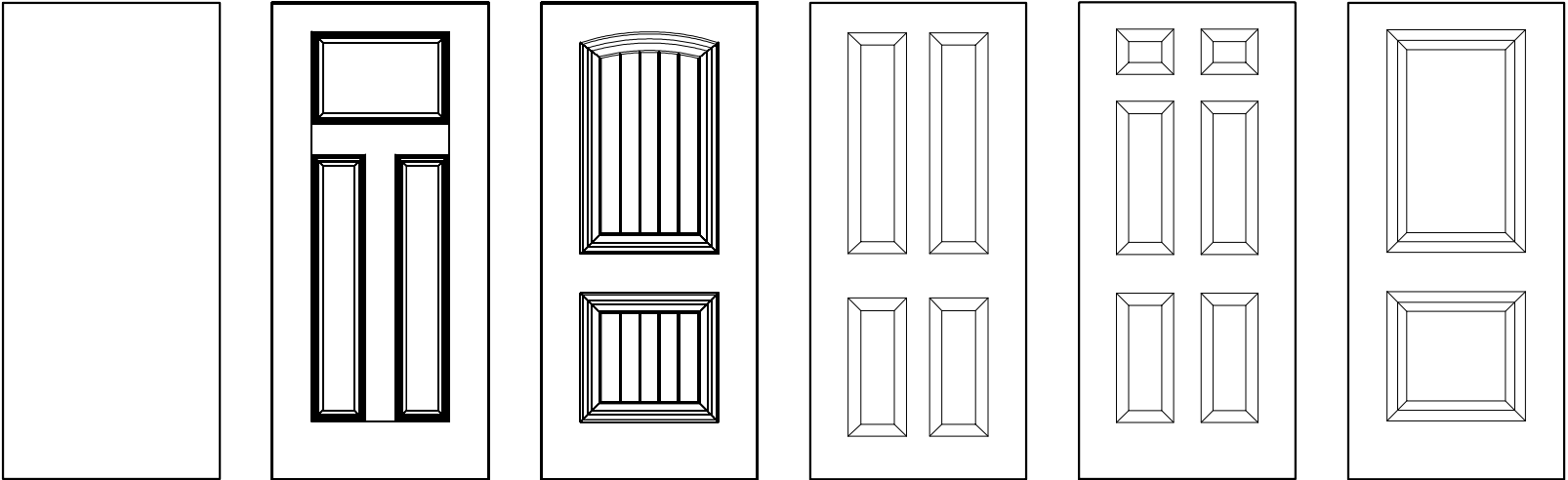
SHEET 3 OF 12

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.1-3.dwg



ELEVATION
X

HARDWARE TABLE		
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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P.E. No. 43409

THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
ELEVATIONS

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21131.1

SHEET 4 OF 12

2 8/07/23 UPDATE TO 8TH ED. (2023) FBC

1 7/14/20 UPDATE TO 7TH ED (2020) FBC

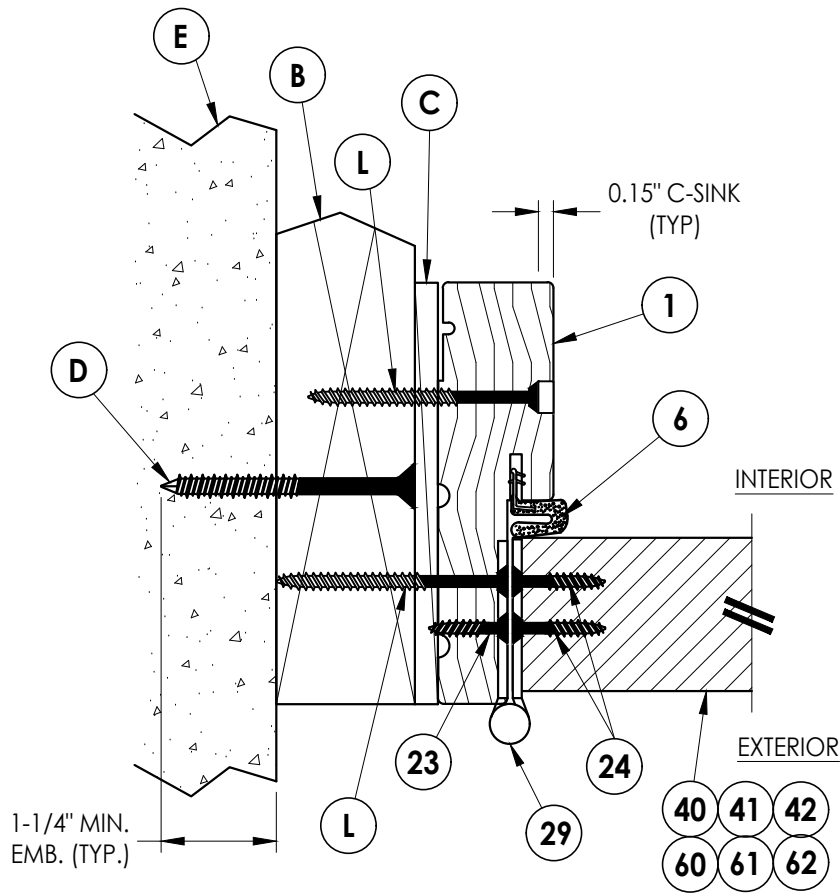
NO. DATE

BY

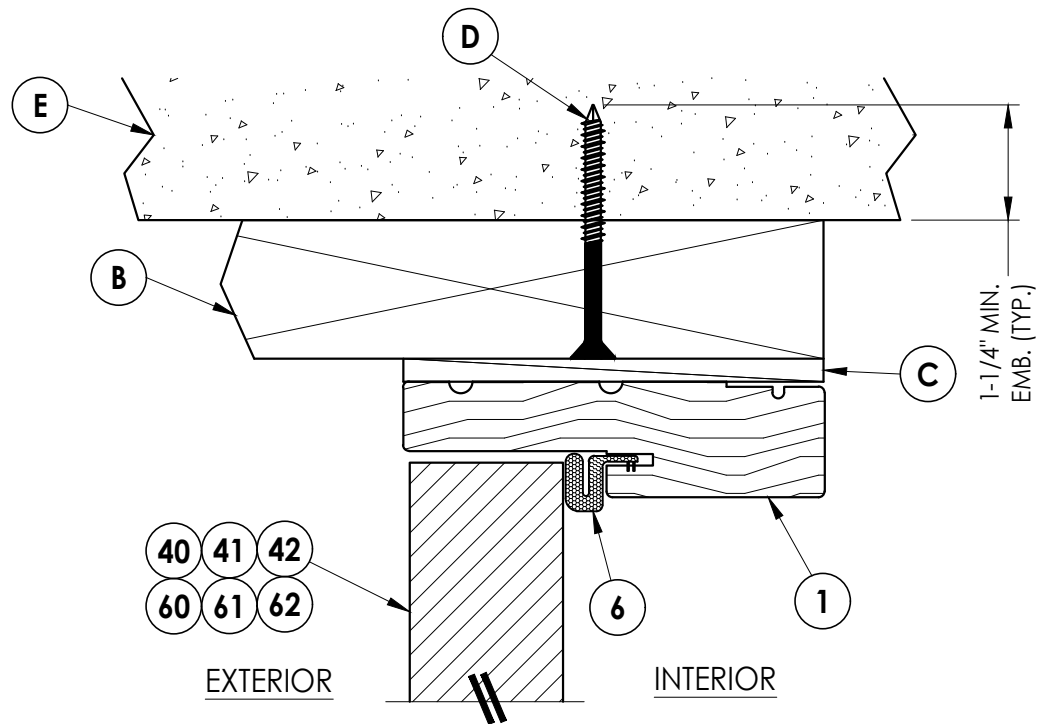
REVISIONS

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

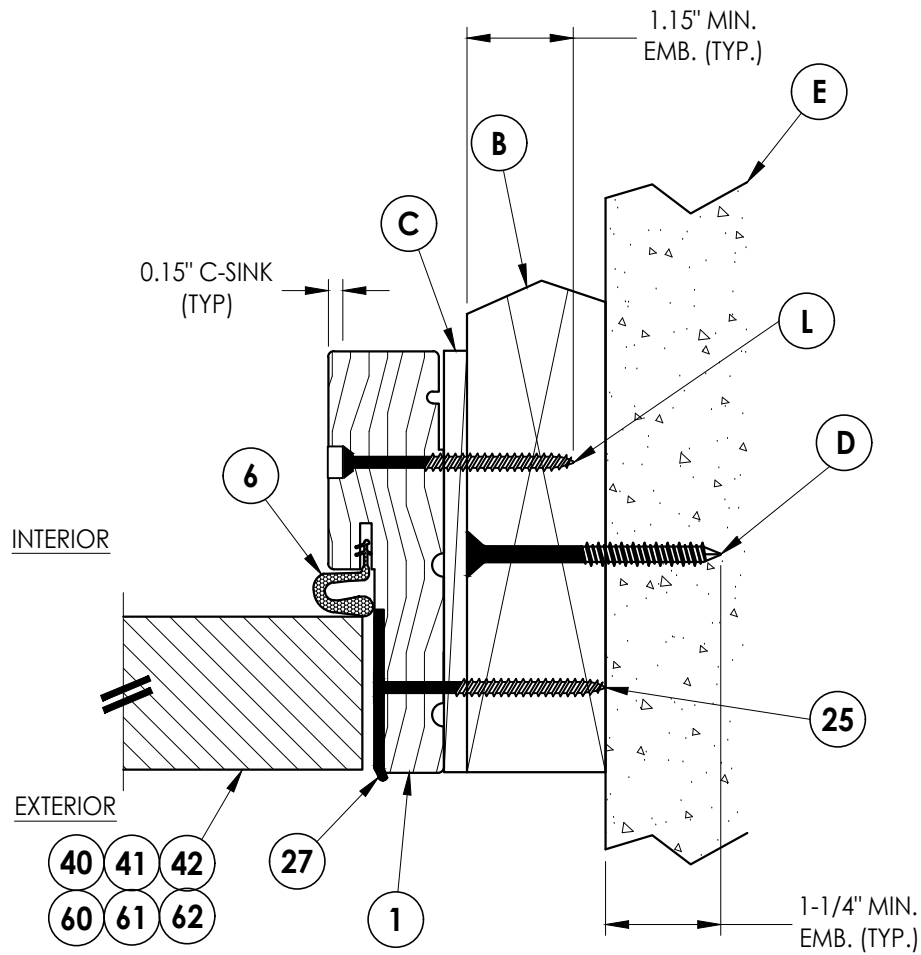
Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.1-3.dwg



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



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



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

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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
STEEL DOOR

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

REVISIONS		NO.	DATE	BY
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
1	7/14/20	UPDATE TO 7TH ED (2020)	FBC	LFS

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

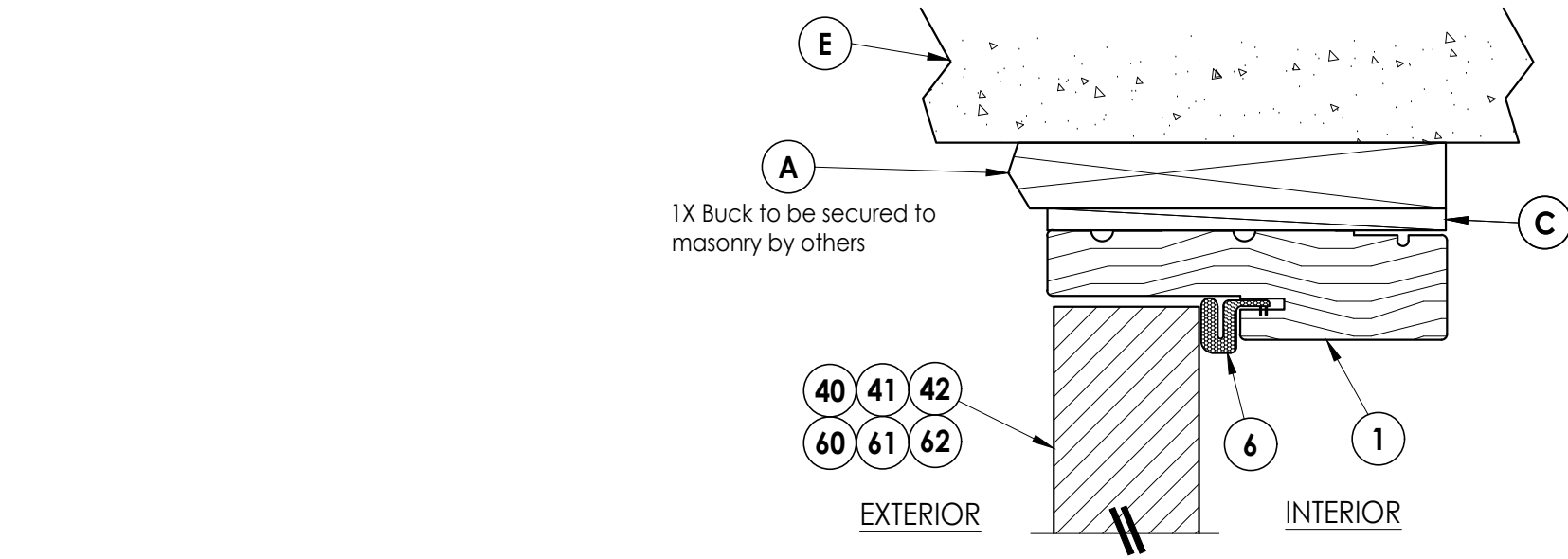
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DRAWING NO.:

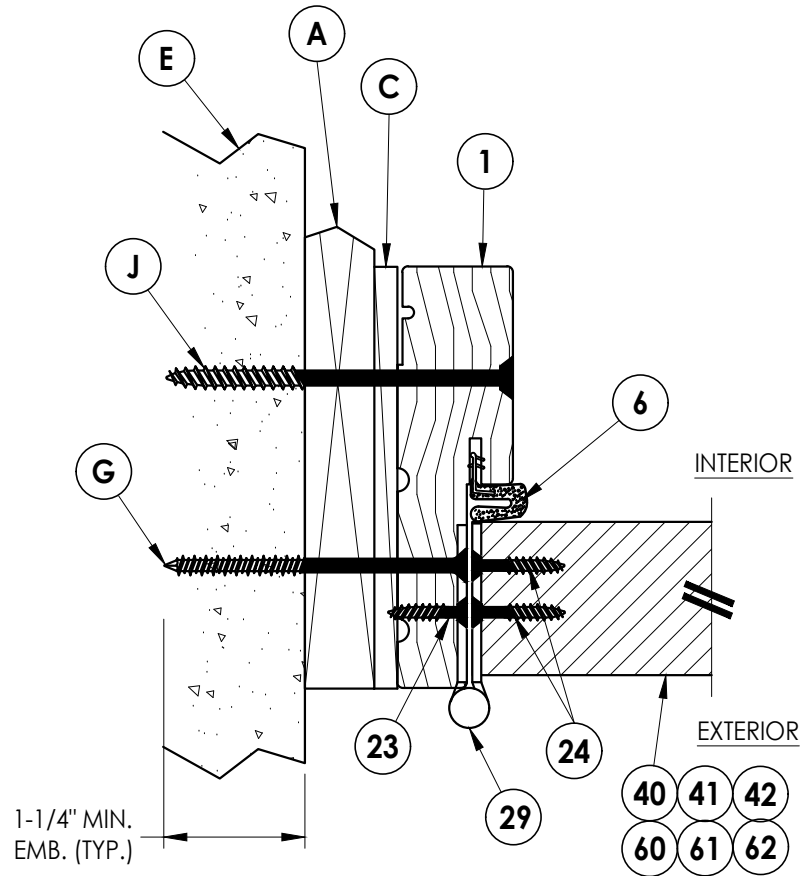
FL-21131.1

SHEET 5 OF 12

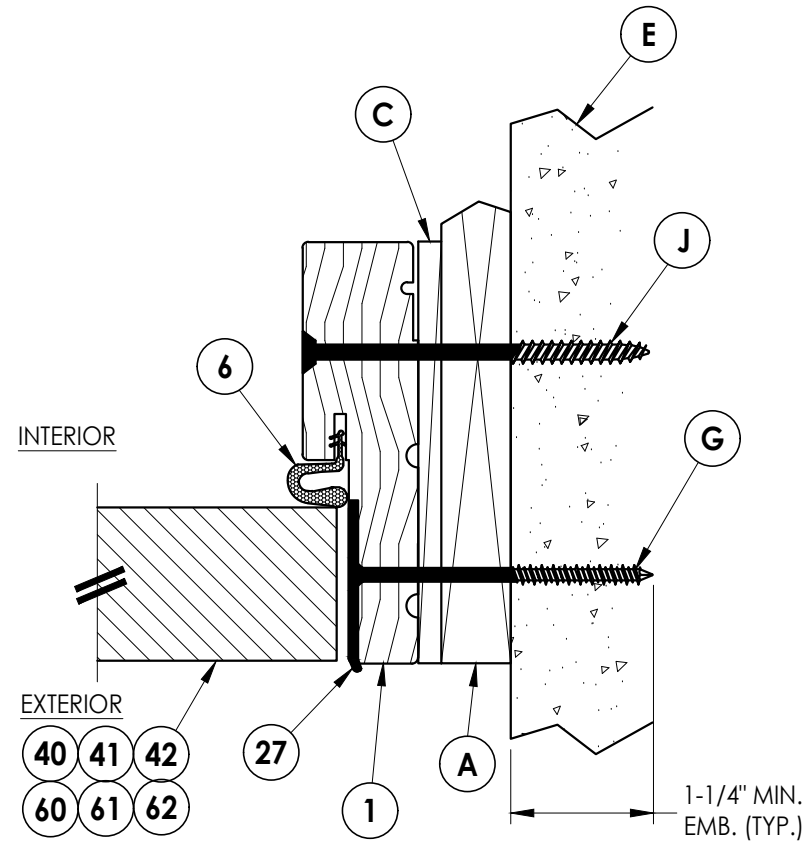
Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.1-3.dwg



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:
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

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

REVISIONS			
NO.	DATE	BY	
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	7/14/20	UPDATE TO 7TH ED (2020)	FBC LFS

DATE: 10/11/17

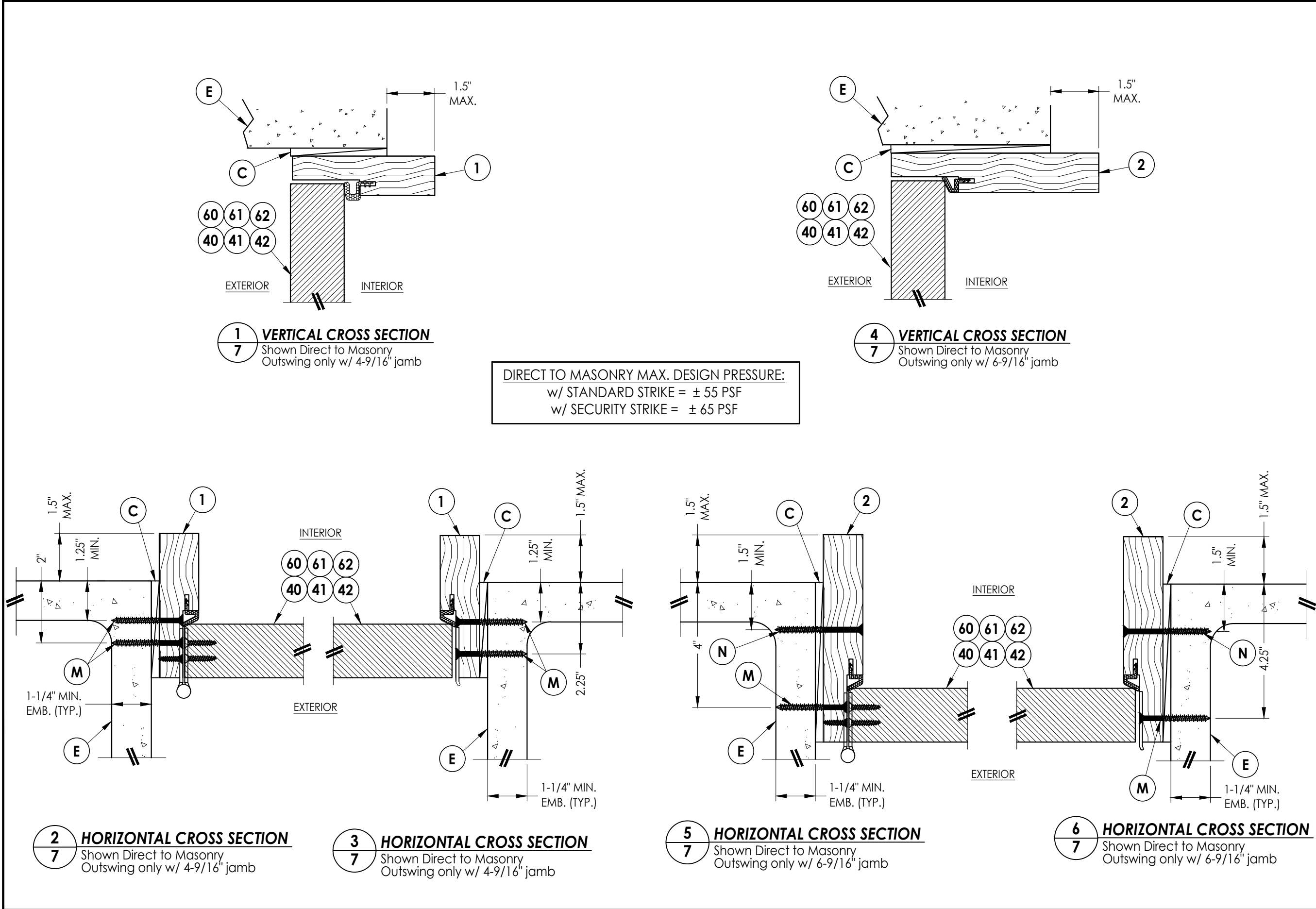
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21131.1

SHEET 6 OF 12



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

**THERMA-TRU
STEEL DOOR**

PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)

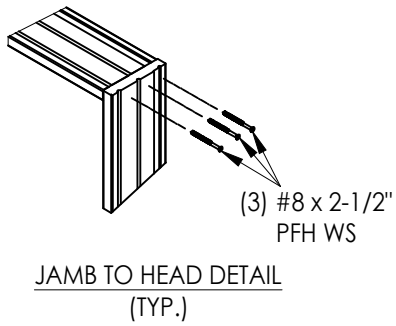
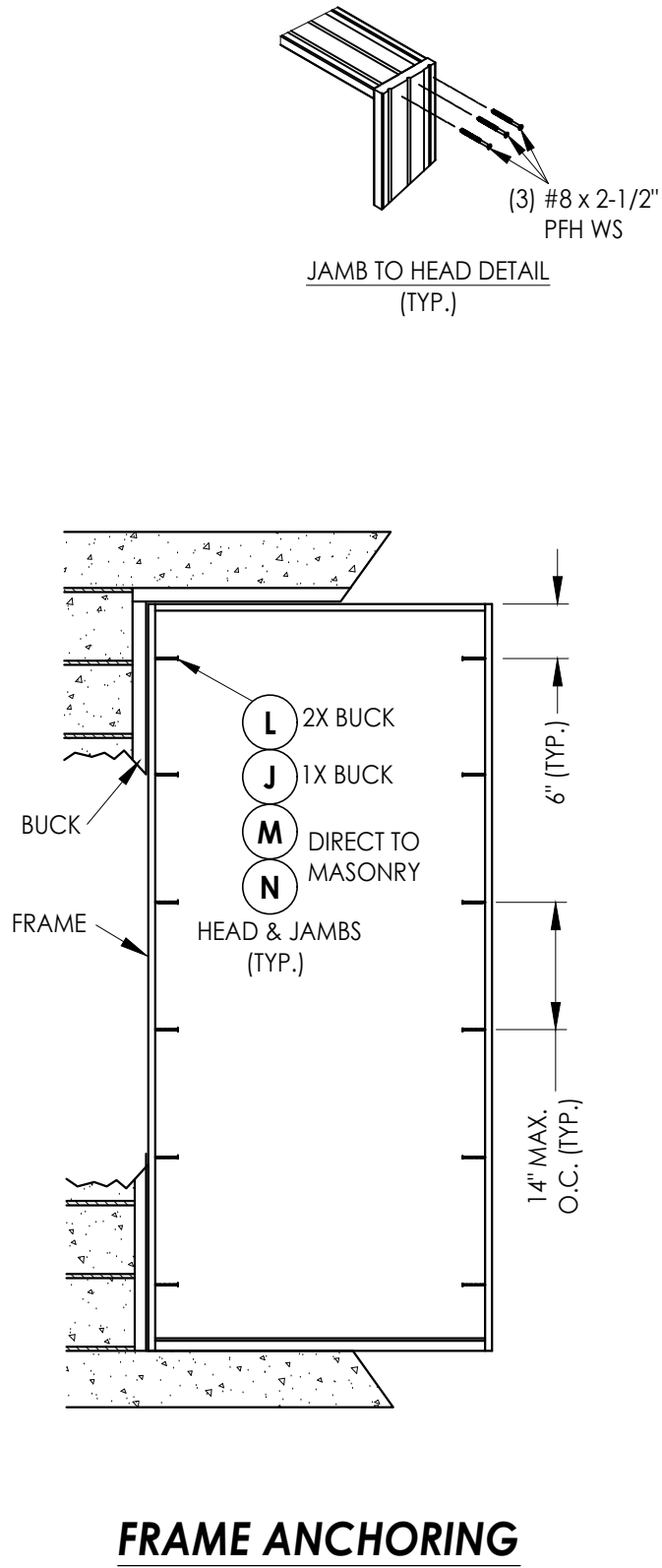
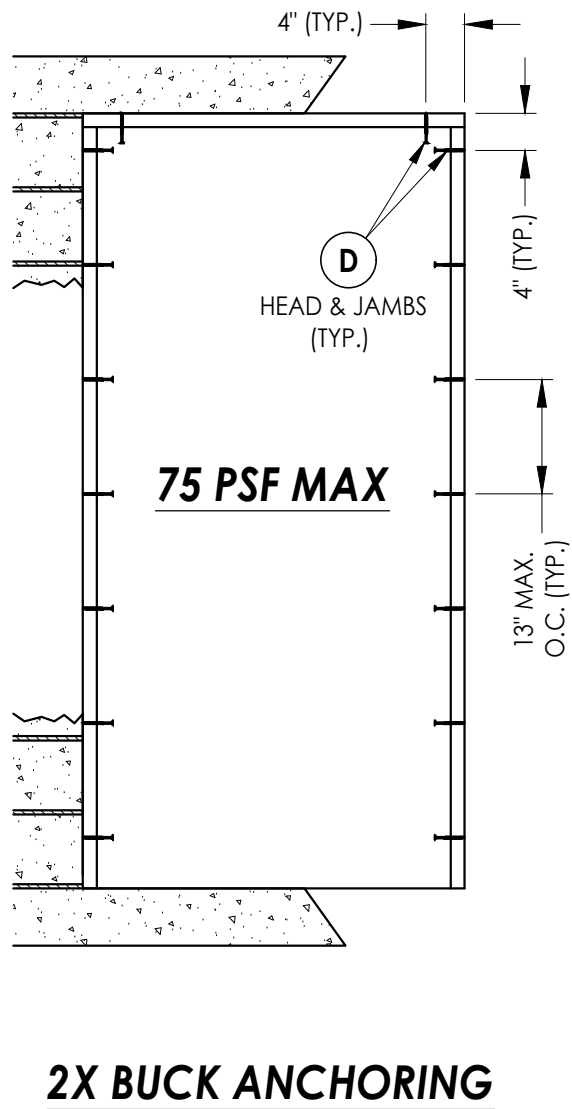
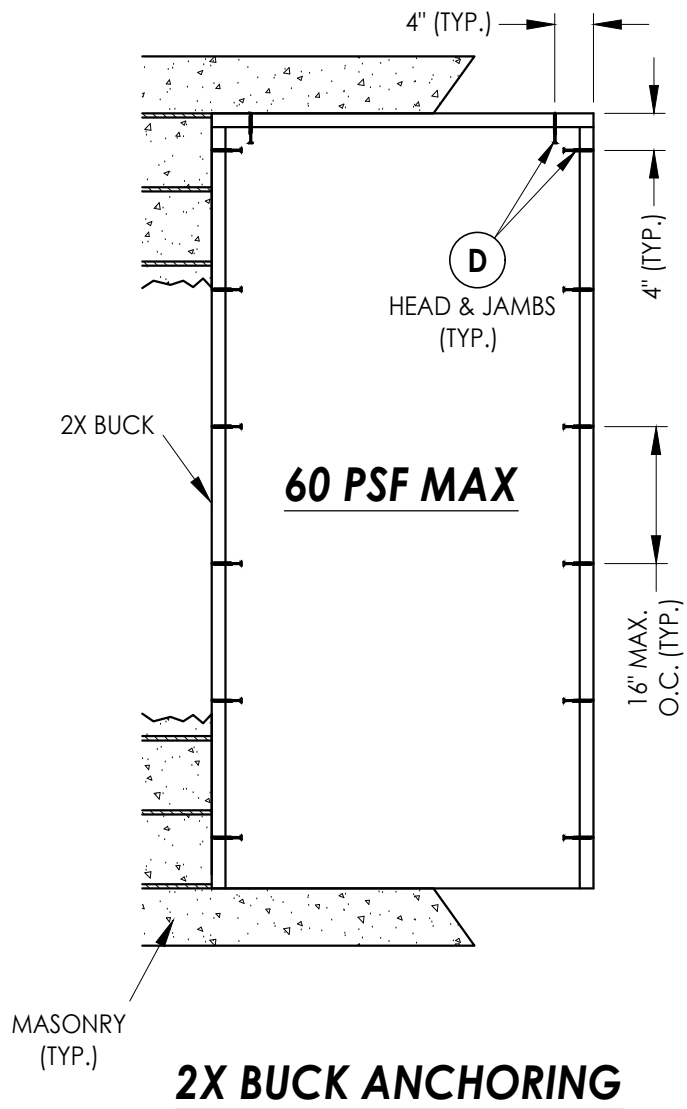
[illegible]

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.

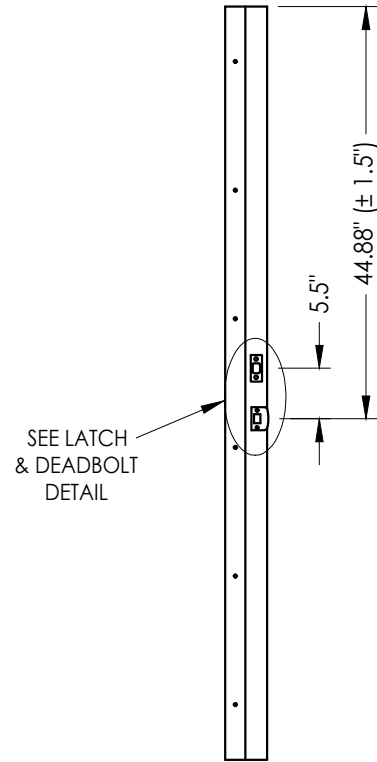


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PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)	
2	8/07/23	UPDATE TO 8TH ED. (2023)	LFS
1	7/14/20	UPDATE TO 7TH ED (2020)	LFS
NO.	DATE		BY
REVISIONS			
DATE: 10/11/17			
SCALE: N.T.S.			
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.: FL-21131.1			
SHEET 8		OF 12	

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PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: BUCK & FRAME ANCHORING	
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	7/14/20	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-21131.1			
SHEET 9 OF 12			



SEE HINGE
DETAIL (TYP.)

11.25" FROM TOP
OF JAMB

11.125" FROM TOP
OF JAMB

29.25" (TYP.)
BOOK DOOR

29.75" (TYP.)
U1/HYBRID DOOR

HINGE DETAIL

LATCH & DEADBOLT DETAIL
Schläge

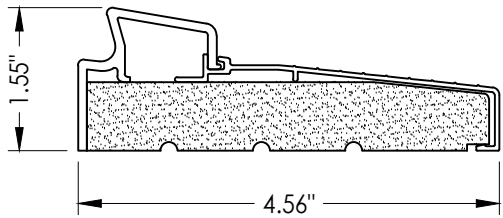
LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)

[illegible]

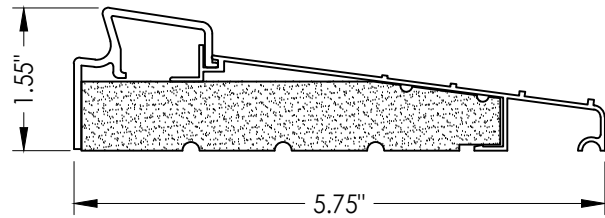
Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

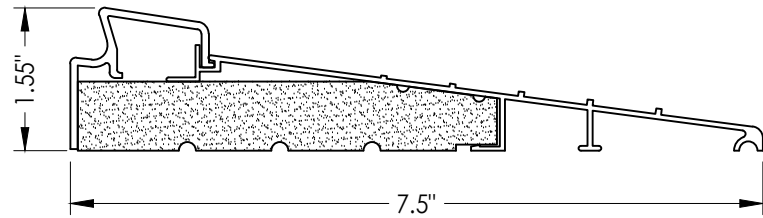
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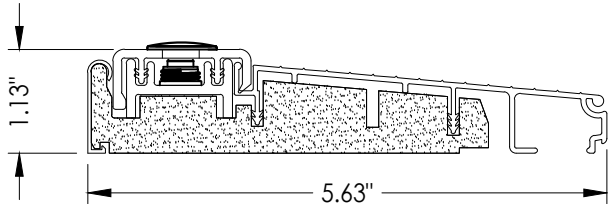
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



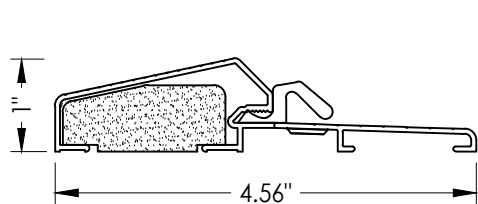
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



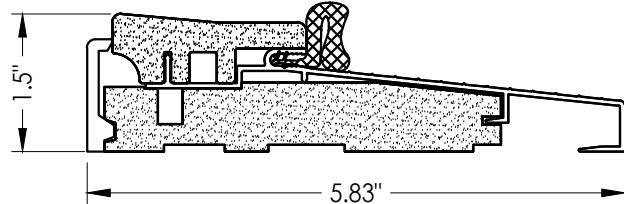
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



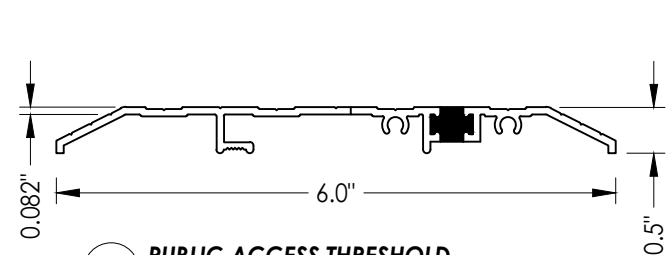
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



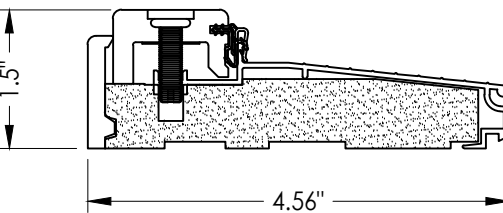
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



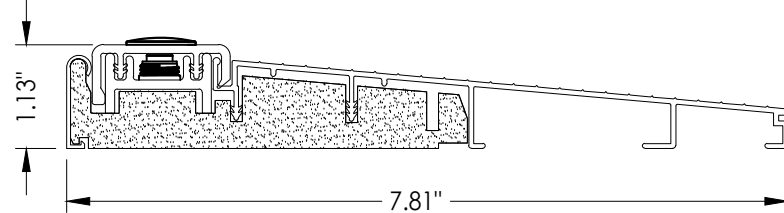
16 OUTSWING THRESHOLD
Composite / Aluminum Sill



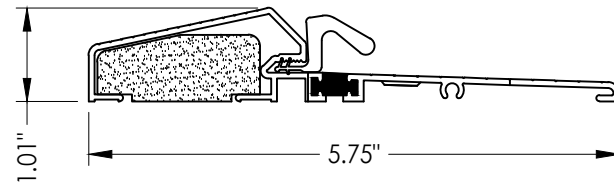
15 PUBLIC ACCESS THRESHOLD



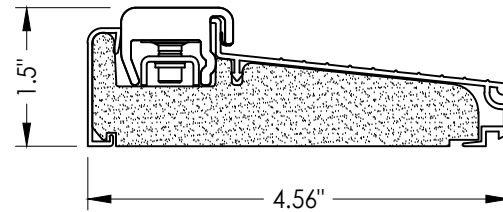
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



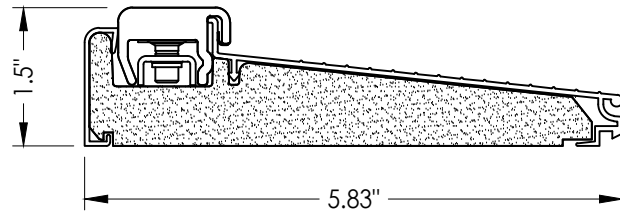
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



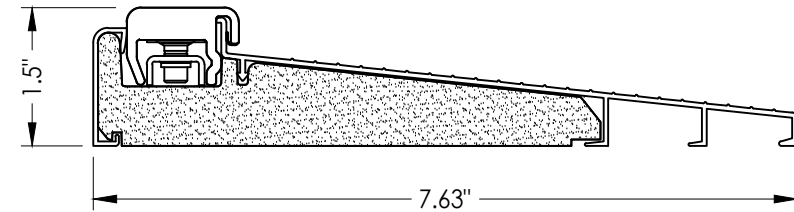
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



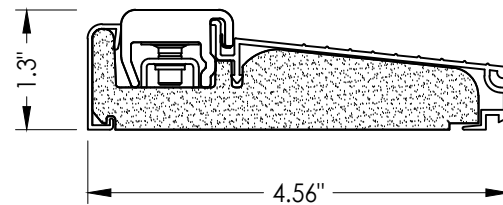
43 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



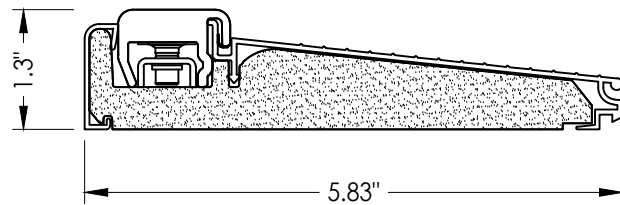
44 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



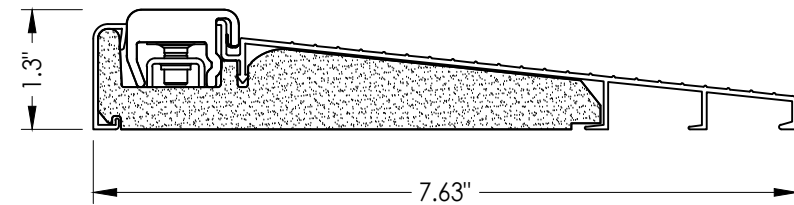
45 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



46 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



47 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



48 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1

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
STEEL DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/14/20	UPDATE TO 7TH ED (2020) FBC LFS

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21131.1

SHEET 11 OF 12

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.1-3.dwg

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 DeWALT 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 DeWALT OR ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	33	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	36	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	37	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	38	INSWING THRESHOLD	ALUM/COMP
2	JAMB (FINGER JOINT PINE)	WOOD	39	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	40	DOOR PANEL (BOOK) - "PROFILES" SERIES	-
7	WEATHERSTRIP (LONG REACH)	FOAM	41	DOOR PANEL (HYBRID) - "PROFILES" SERIES	-
8	SWEEP	VINYL	42	DOOR PANEL (U1) - "PROFILES" SERIES	-
9	SWEEP	VINYL	43	INSWING THRESHOLD	ALUM/COMP
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	44	INSWING THRESHOLD	ALUM/COMP
15	PUBLIC ACCESS THRESHOLD	ALUM	45	INSWING THRESHOLD	ALUM/COMP
16	OUTSWING THRESHOLD	ALUM/COMP	46	INSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP	47	INSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP	48	INSWING THRESHOLD	ALUM/COMP
22	#8 x 3/4" PFH WOOD SCREW	STEEL	60	DOOR PANEL (BOOK) - "TRADITIONS" SERIES	-
23	#10 x 3/4" PFH WOOD SCREW	STEEL	61	DOOR PANEL (HYBRID) - "TRADITIONS" SERIES	-
24	#10 x 1" PFH WOOD SCREW	STEEL	62	DOOR PANEL (U1) - "TRADITIONS" SERIES	-

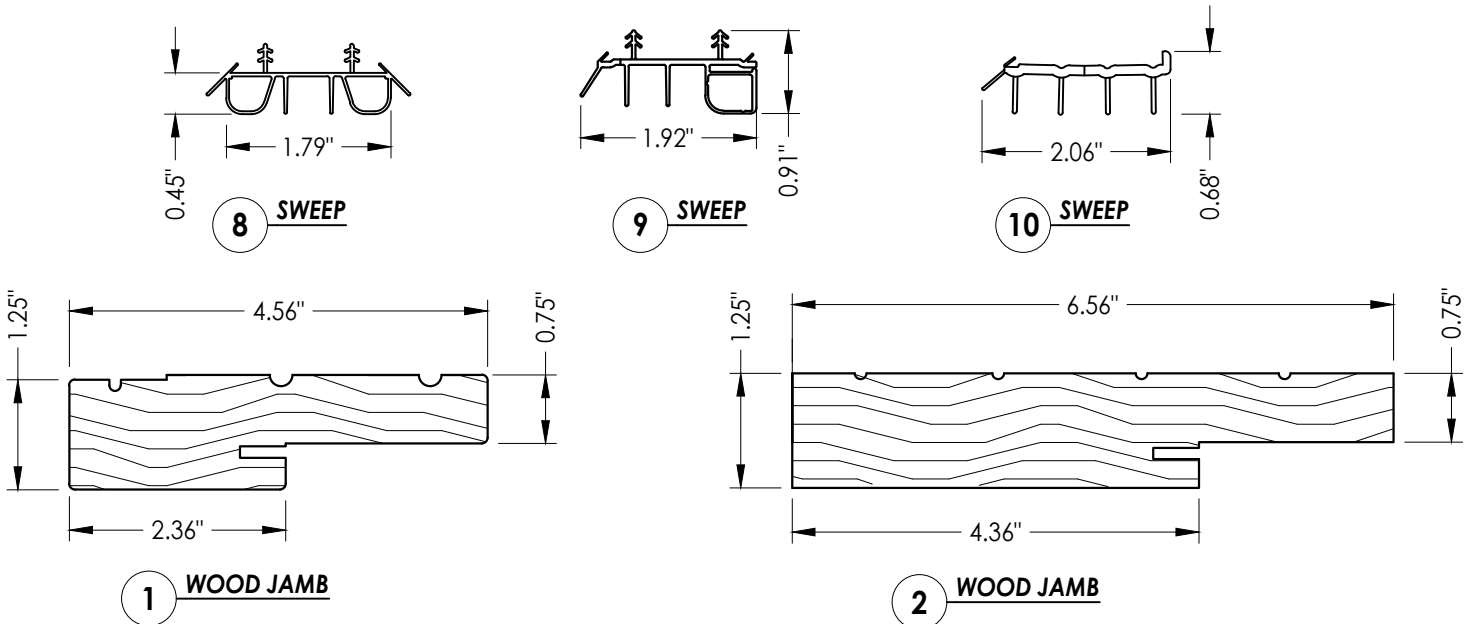
CONCRETE ANCHOR NOTES:

- 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:
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

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	7/14/20	UPDATE TO 7TH ED (2020) FBC
		LFS
		BY

DATE: 10/11/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21131.1
SHEET 12 OF 12