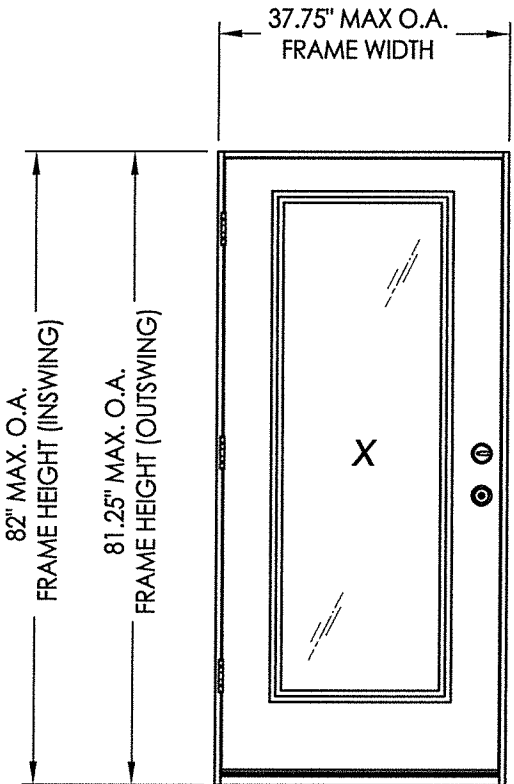


WOOD EDGE
GLAZED STEEL SINGLE DOOR
INSWING/OUTSWING
"IMPACT"

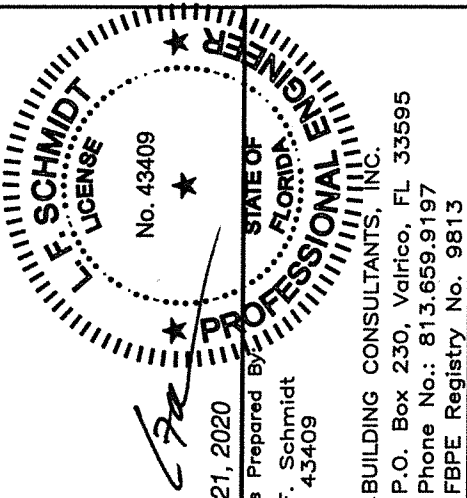
GENERAL NOTES

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. 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.

TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes	8	Vertical Cross Sections (Thresholds)
2	Door Panel Details "Profiles"	9	Buck & Frame Anchoring
3	Door Panel Details "Traditions"	10	Hardware Details
4	Elevations	11	Glazing Details
5	Horizontal & Vertical Cross Sections (2X Buck)	12	Components
6	Horizontal & Vertical Cross Sections (1X Buck)	13	Bill of Materials
7	Horizontal & Vertical Cross Sections (Direct to Masonry)		



CONFIGURATION	DOOR PANEL	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	"PROFILES"	-47.0	-53.0	-50.0	-50.0
X	"TRADITIONS"	-47.0	-53.0	-50.0	-50.0



July 21, 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

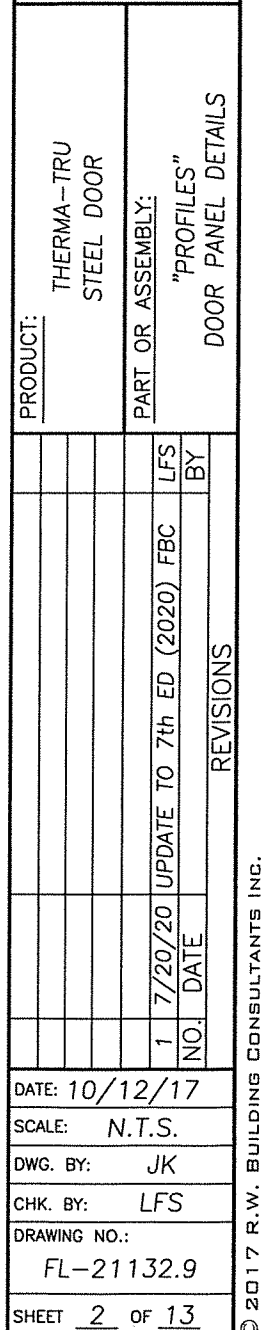
PRODUCT: THERMA-TRU STEEL DOOR

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

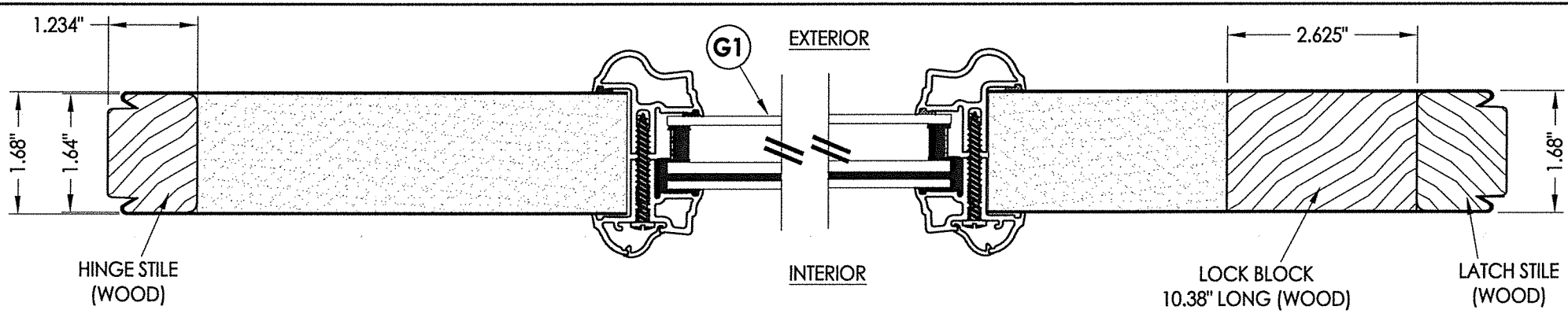
NO.	DATE	REVISIONS
1	7/20/20	UPDATE TO 7th ED (2020) FBC

DATE: 10/12/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21132.9
SHEET 1 OF 13

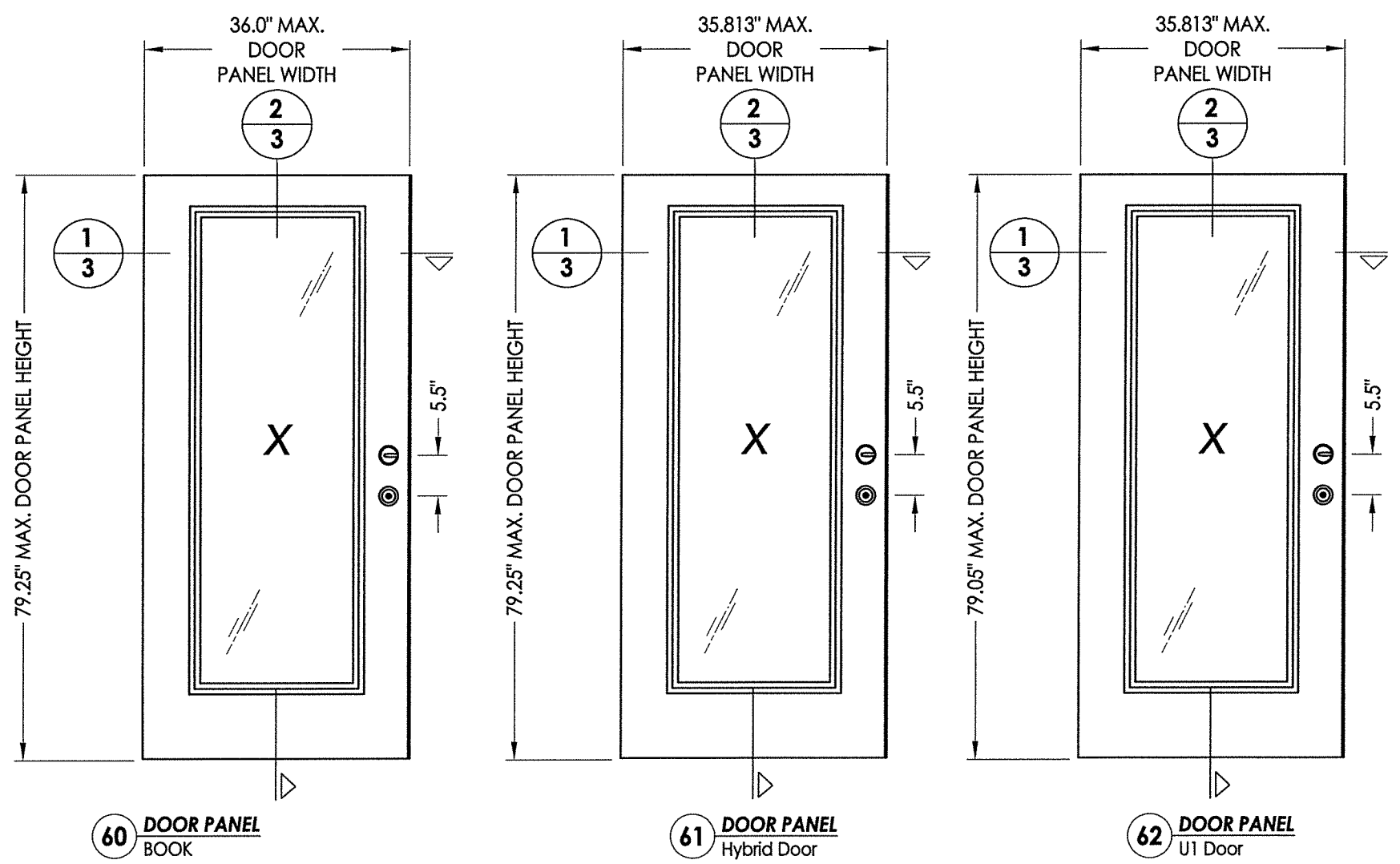
2 VERTICAL CROSS SECTION



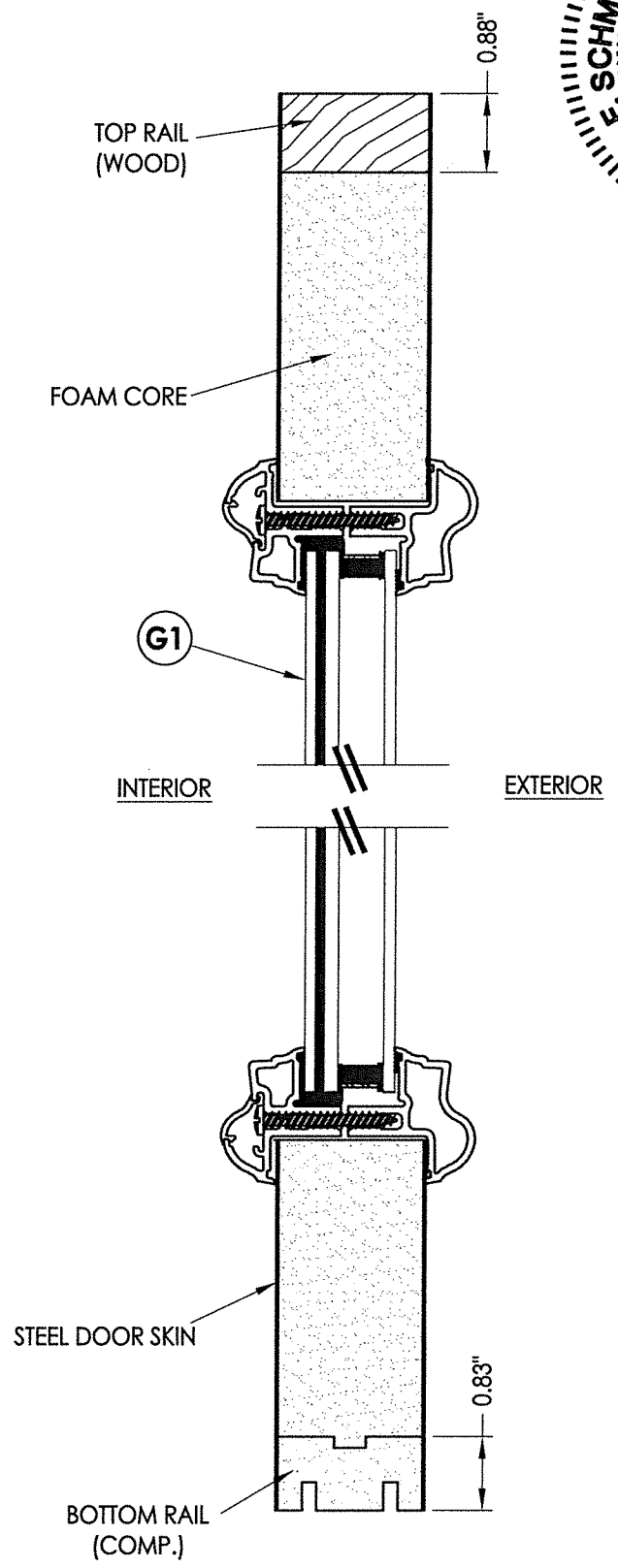
R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.9-11.dwg, 3.1



1
3 HORIZONTAL CROSS SECTION



"TRADITIONS" SERIES DOOR PANEL
STEEL DOOR SKIN: 25 GA. (0.018" MIN. THICKNESS, Fy = 27,830 PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)



2
3 VERTICAL CROSS SECTION

E. SCHMIDT
P.E. LICENSE
No. 43409
STATE OF FLORIDA
PROFESSIONAL ENGINEER

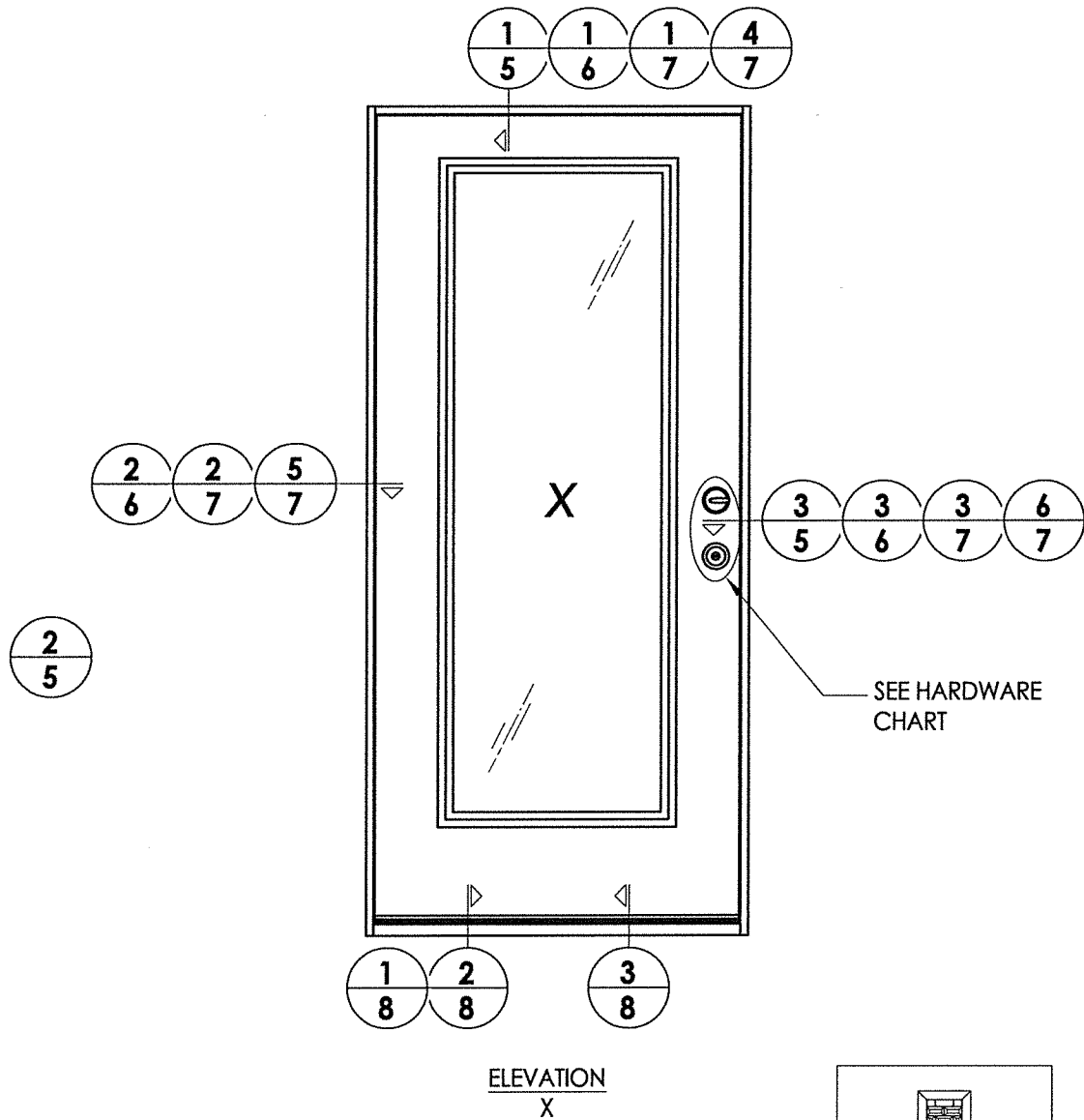
July 21, 2020

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

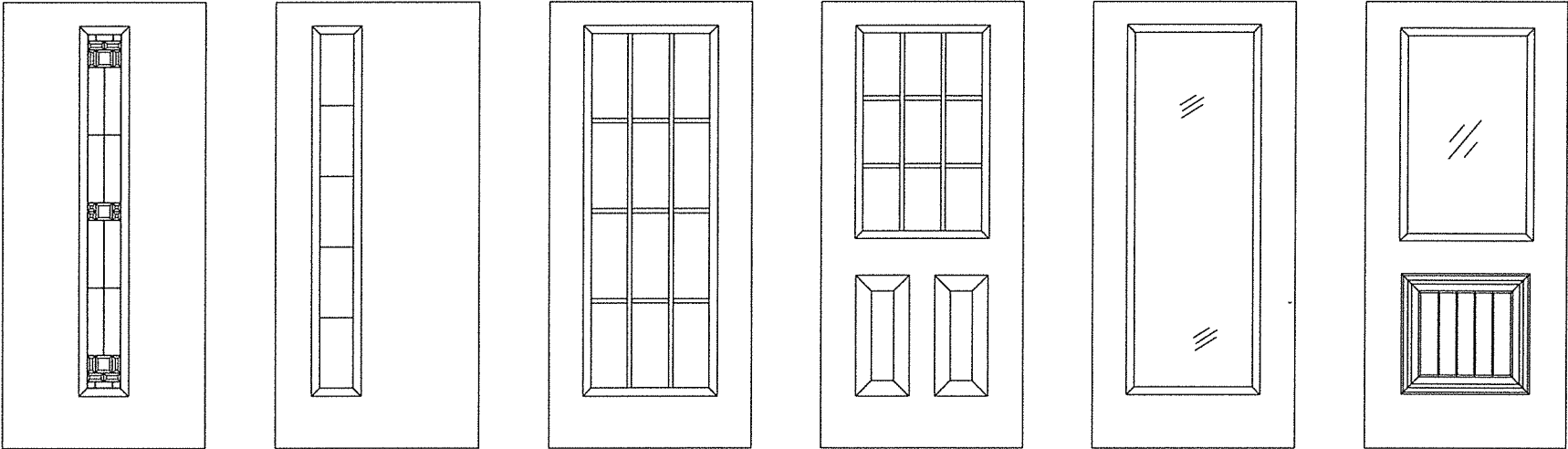
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		"TRADITIONS" DOOR PANEL DETAILS	
NO.	DATE	UPDATE TO	BY
1	7/20/20	7th ED (2020)	LFS
REVISIONS			
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.9			
SHEET 3 OF 13			

R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.9-11.dwg, 4.1

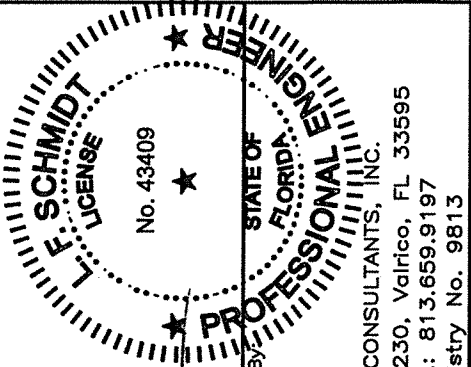


HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)



PROFILES/TRADITIONS Steel Door Panel Options

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

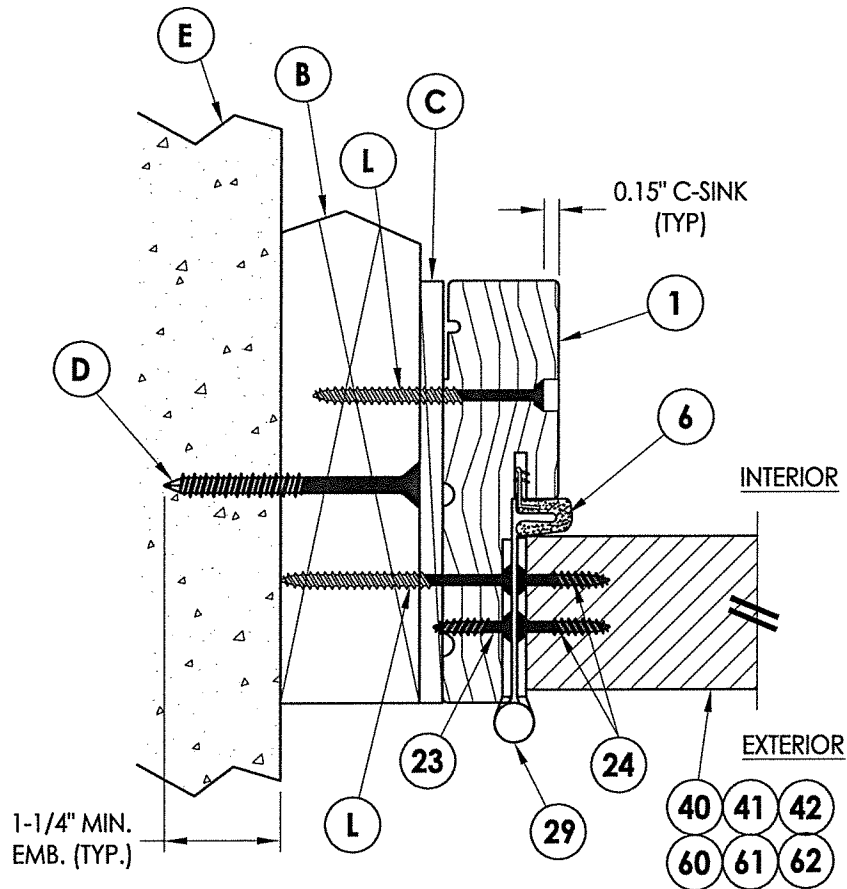


July 21, 2020

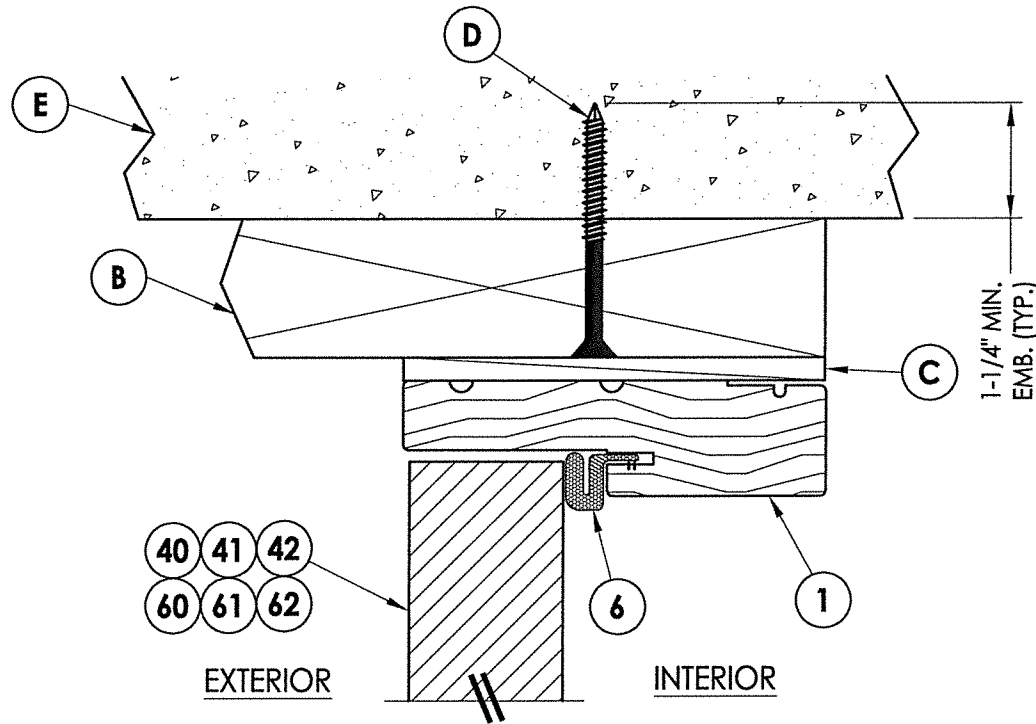
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
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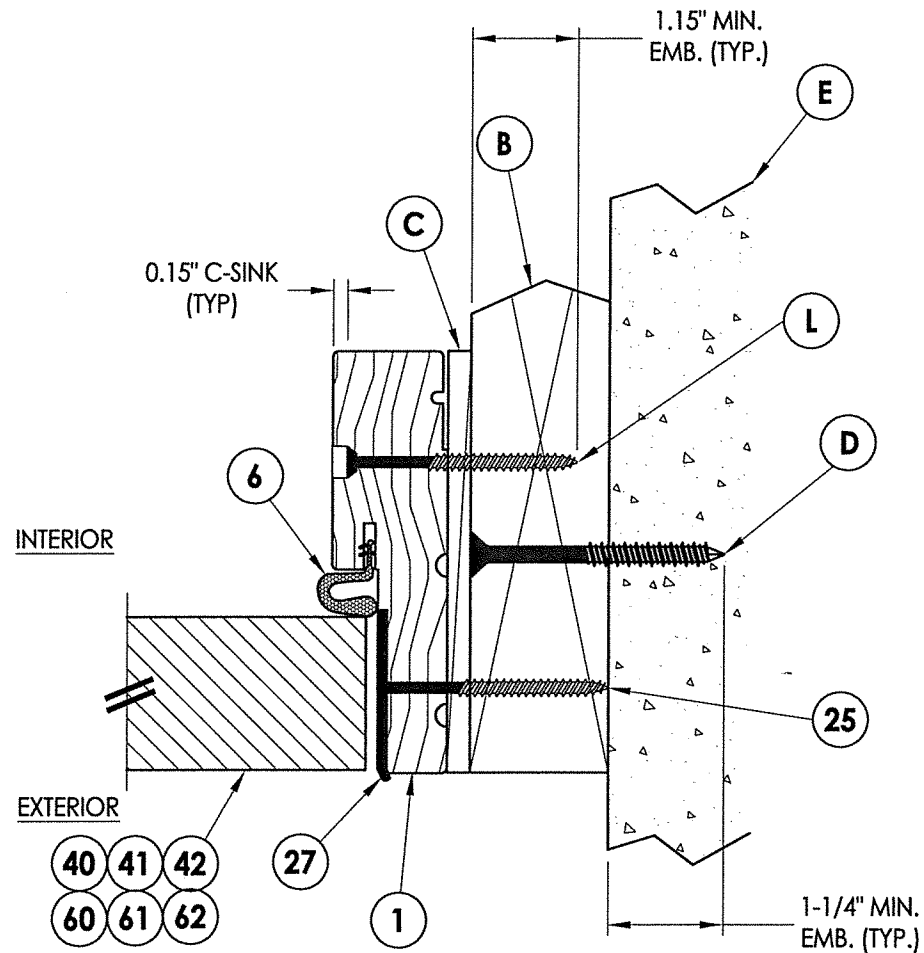
PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		ELEVATIONS	



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



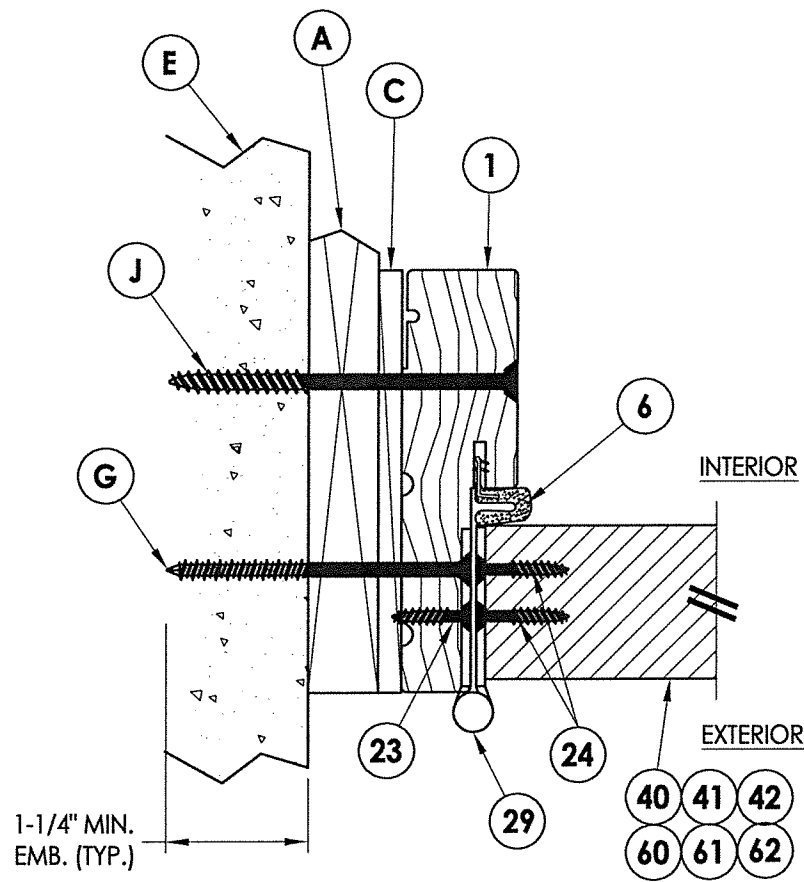
1 VERTICAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



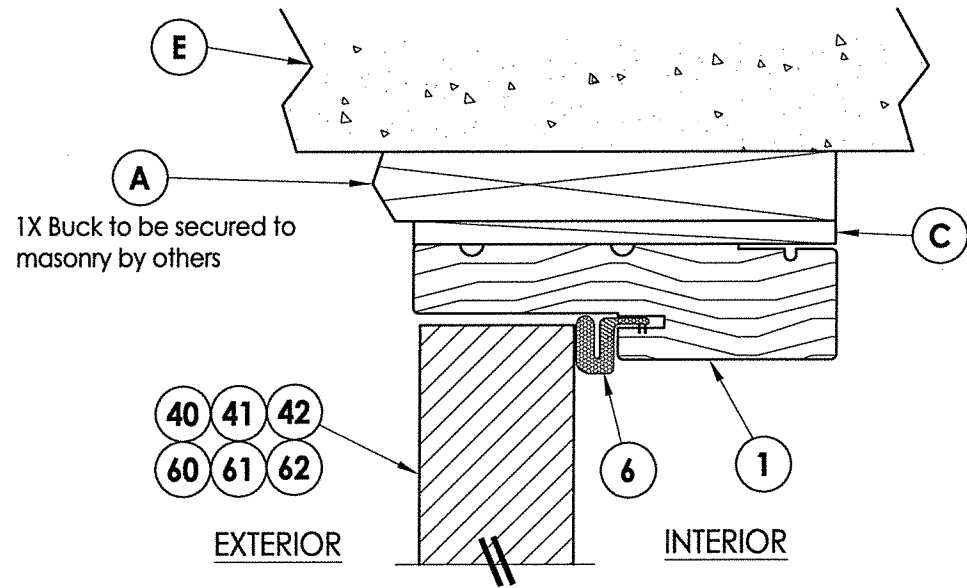
3 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)

F. SCHMIDT LICENSE No. 43409 ★		STATE OF FLORIDA ★ PROFESSIONAL ENGINEER	
July 21, 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		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)		LFS BY	
DATE: 10/12/17		NO. DATE	
SCALE: N.T.S.		1 7/20/20 UPDATE TO 7th ED (2020) FBC	
DWG. BY: JK		REVISIONS	
CHK. BY: LFS		NO. DATE	
DRAWING NO.: FL-21132.9		1 7/20/20 UPDATE TO 7th ED (2020) FBC	
SHEET 5 OF 13		1 7/20/20 UPDATE TO 7th ED (2020) FBC	

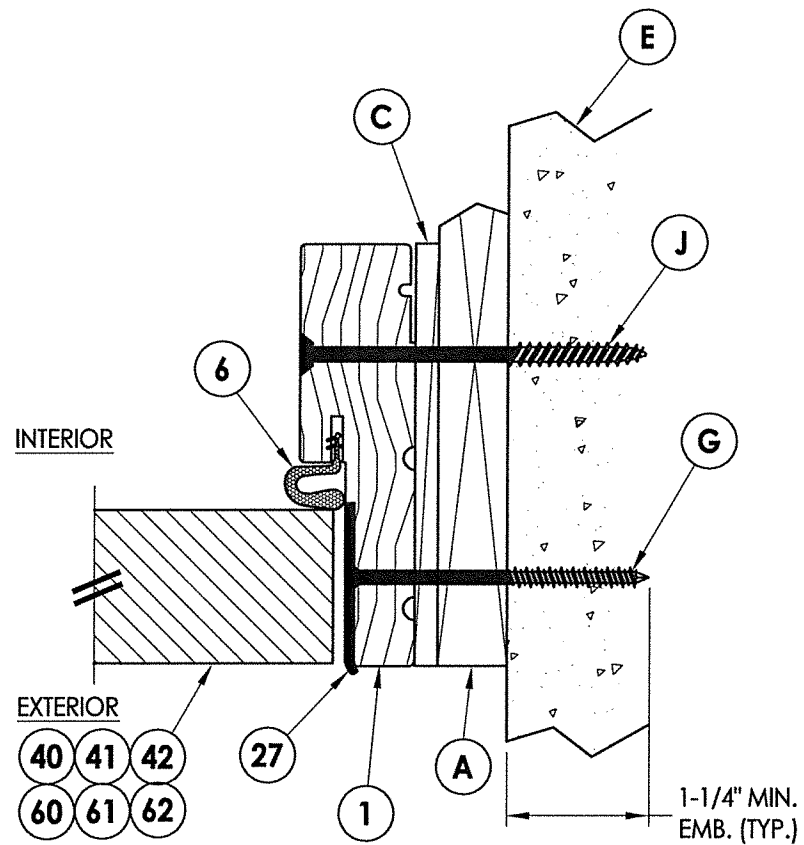
R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.9-11.dwg, 6.1



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



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



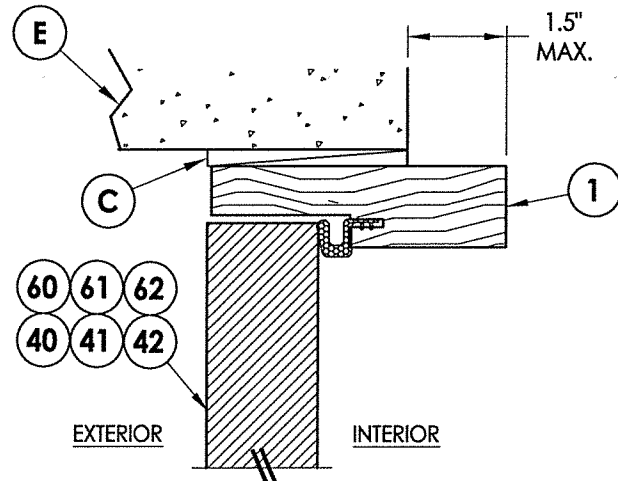
3 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

Professional Engineer Seal: L.F. SCHMIDT, License No. 43409, State of Florida. Documents Prepared By: Lyndon F. Schmidt, P.E. No. 43409. Date: July 21, 2020. Building Consultants, Inc., P.O. Box 230, Valrico, FL 33595. Phone No.: 813.659.9197. FBPE Registry No. 9813.

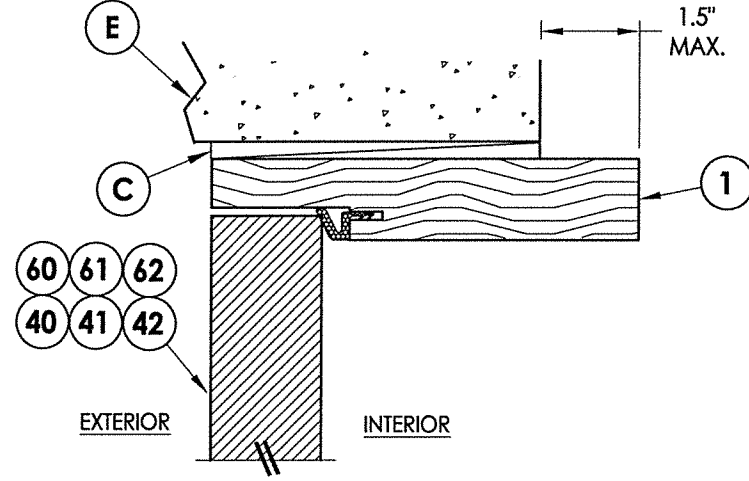
PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
NO.	DATE	BY	REVISIONS
1	7/20/20	LFS	UPDATE TO 7th ED (2020) FBC
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.9			
SHEET 6 OF 13			

3 7 **HORIZONTAL CROSS SECTION**

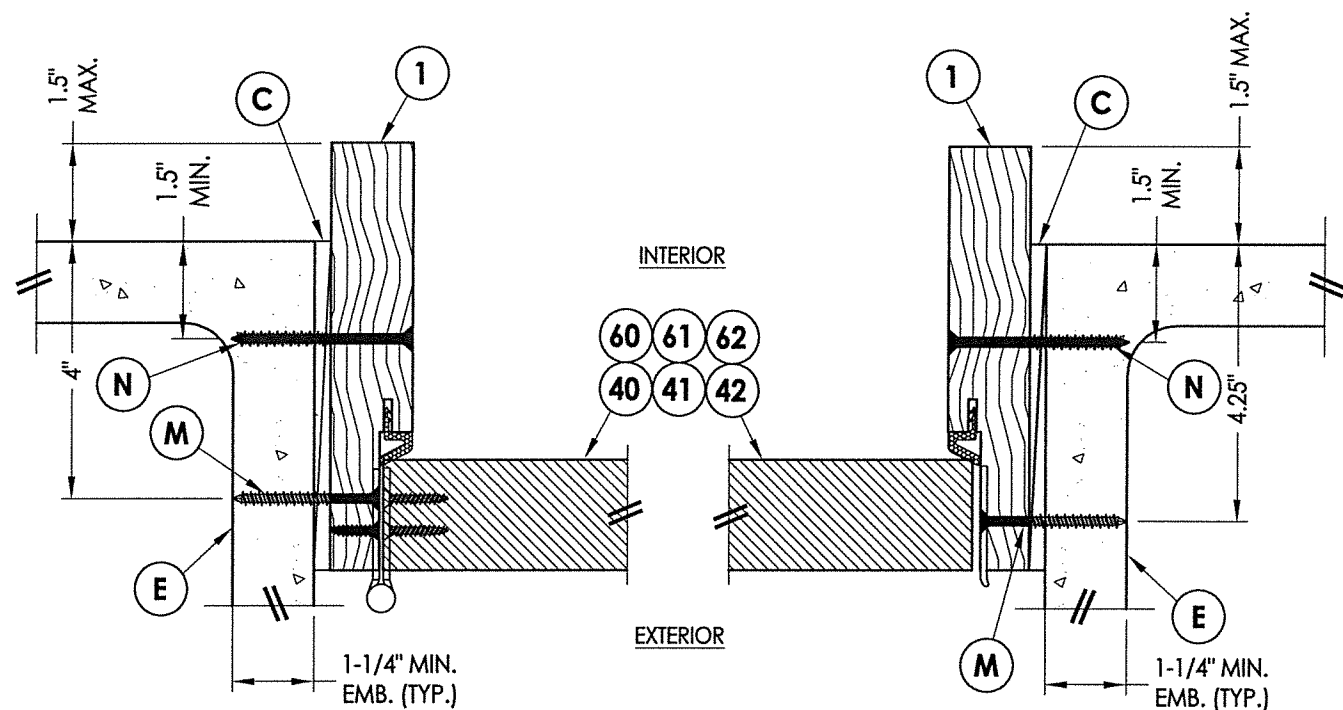
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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

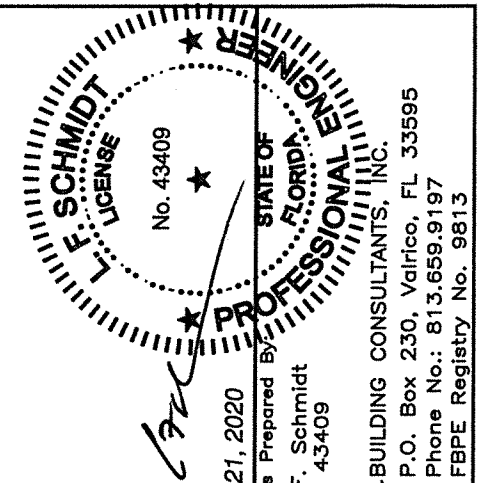


4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



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

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



July 21, 2020

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Radian Building Consultants, Inc.

P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813

FBFE Registry No. 3013

PRODUCT: THERMA-TRU
STEEL DOOR

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

[illegible]

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

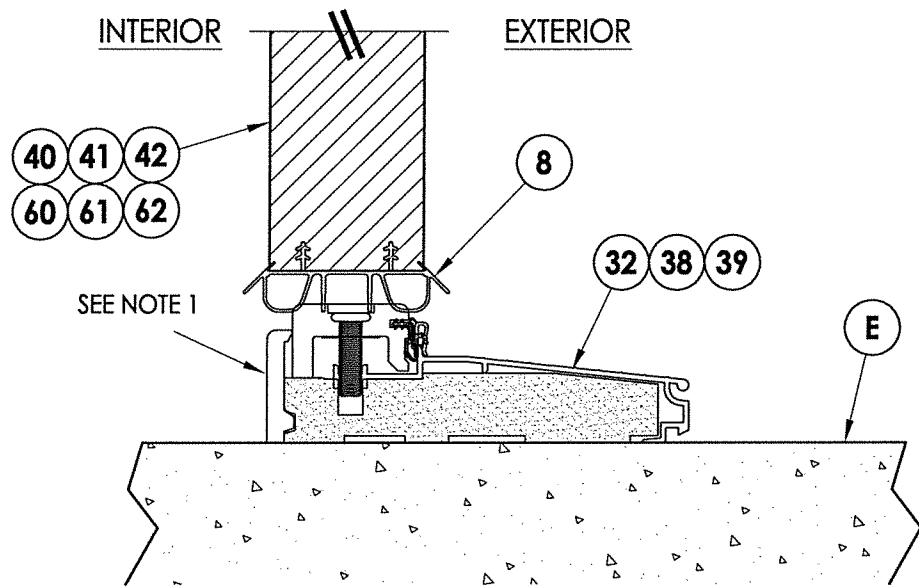
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FL-21132.9

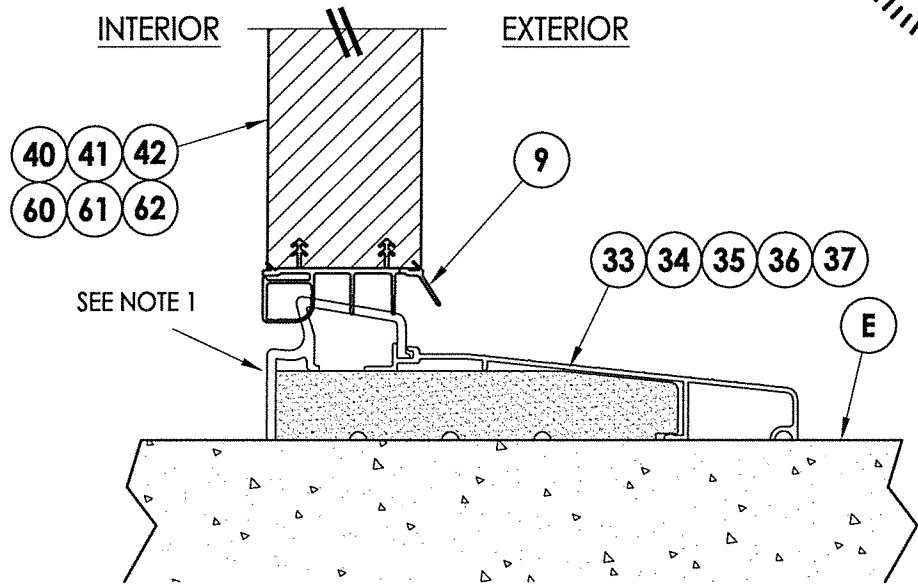
SHEET 7 OF 13

R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.9-11.dwg, 8.1

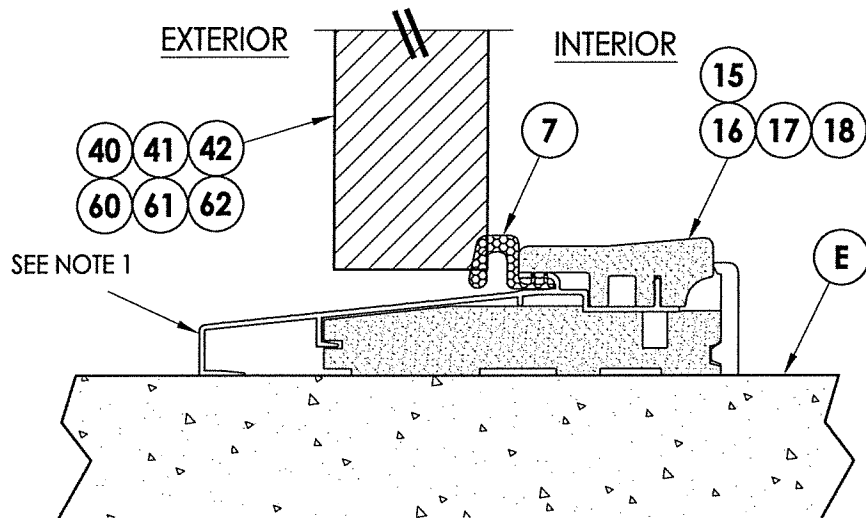
- Notes:
- 1. Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
 - Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
 - Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.



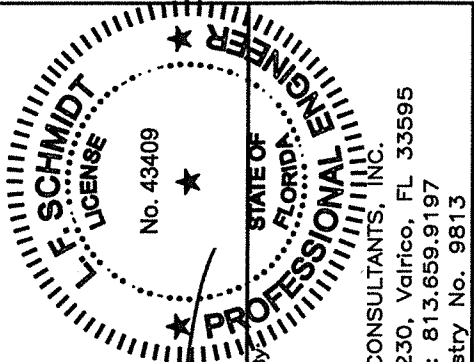
1
8 **VERTICAL CROSS SECTION**
Inswing Sill



2
8 **VERTICAL CROSS SECTION**
Inswing Sill



3
8 **VERTICAL CROSS SECTION**
Outswing Sill



July 21, 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
STEEL DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	7/20/20	UPDATE TO 7th ED (2020) FBC	LFS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

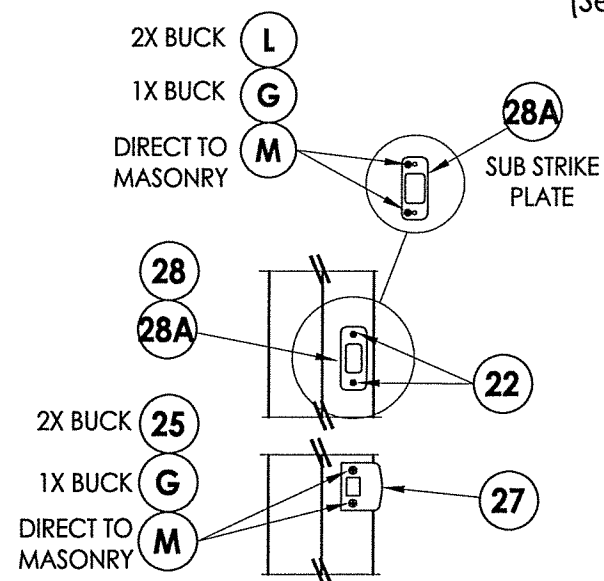
CHK. BY: LFS

DRAWING NO.:
FL-21132.9

SHEET 8 OF 13

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Diagram illustrating the installation of the 28B bracket into a masonry wall. The bracket is labeled **28B** and is secured with screws labeled **M**. The text **DIRECT TO MASONRY** indicates the mounting surface.



SEE HINGE
DETAIL (TYP.)

11.25" FROM TOP
OF JAMB

29.25" (TYP.)
BOOK DOOR

11.125" FROM TOP
OF JAMB

29.75" (TYP.)
U1/HYBRID DOOR

The diagram shows a vertical section of a door assembly. On the left, a vertical line represents the jamb with several dots indicating hinge locations. Three hinge details are shown as rectangular blocks with internal patterns. Dimension lines with arrows indicate the following measurements from the top of the jamb: 11.25" to the top of the first hinge, 29.25" (TYP.) for the height of the book door between the first and second hinges, 11.125" to the top of the second hinge, 29.75" (TYP.) for the height of the U1/hybrid door between the second and third hinges, and 11.125" to the top of the third hinge. An arrow points from the text 'SEE HINGE DETAIL (TYP.)' to the first hinge detail.

Diagram illustrating the installation of a wall anchor assembly. The assembly consists of a vertical rod (23) passing through a wall. A nut (29) is threaded onto the rod, and a bush (24) is placed between the nut and the wall. The bush is secured by a 2X BUCK (L) and a 1X BUCK (G). The assembly is mounted directly to the masonry (M).

 July 21, 2020
 Documents Prepared By
 on F. Schmidt
 No. 43409

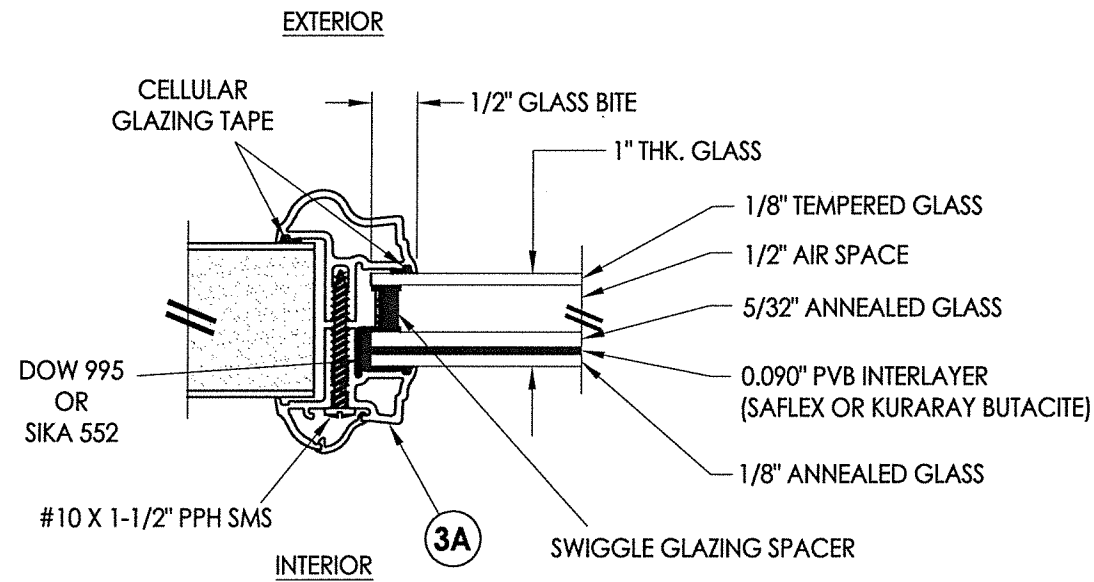
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July 21, 2020
Documents Prepared
Lyndon F. Schmidt
P.E. No. 43409

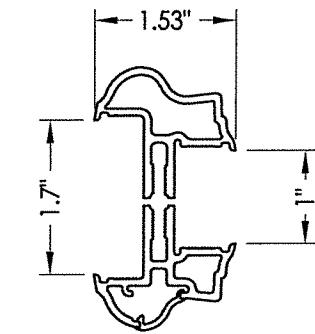
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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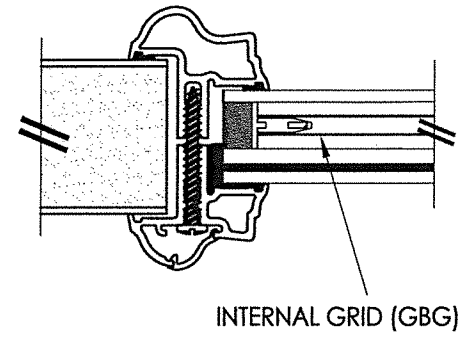
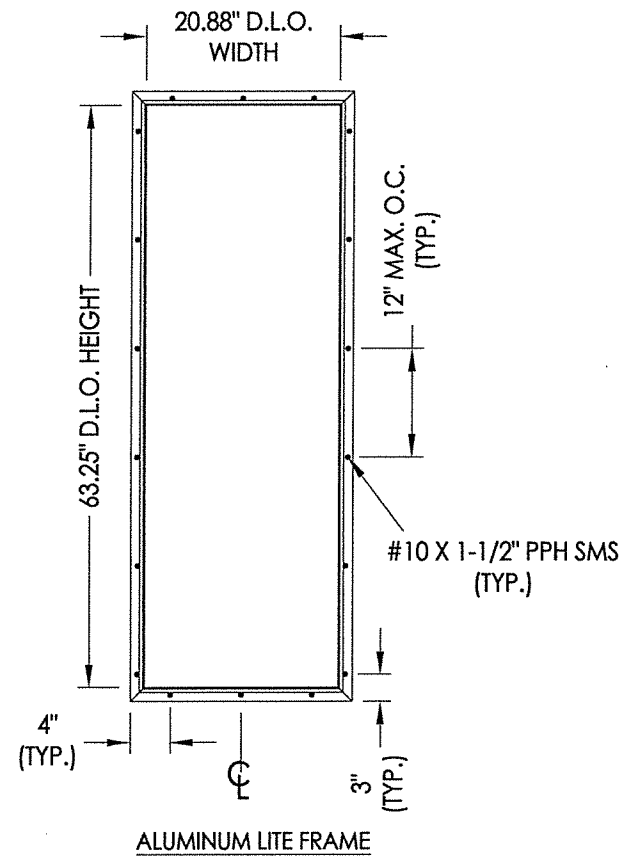
R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.9-11.dwg, 11.1



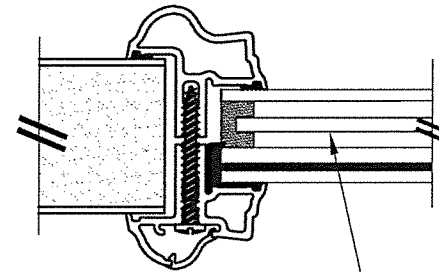
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



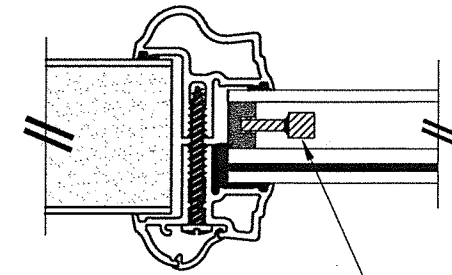
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



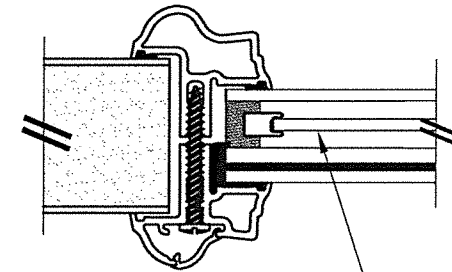
INTERNAL GRID (GBG)



PRIVACY INSERT



WROUGHT IRON INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
		July 21, 2020	
PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		GLAZING DETAILS	
REVISIONS		LFS BY	
1		7/20/20 UPDATE TO 7th ED (2020) FBC	
NO.		DATE	
DATE:		10/12/17	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21132.9	
SHEET		11 OF 13	

Technical drawing of the front view of the seat cushion. The drawing shows a rectangular cushion with a textured surface. A dimension line at the top indicates a width of 4.56". A dimension line on the left indicates a height of 1.55". The cushion has a small, raised, rectangular feature on the left side, which appears to be a headrest or a support structure. The bottom edge of the cushion is slightly curved.

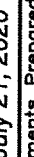
Technical drawing of a roof section. The drawing shows a cross-section of a roof with a sloped surface. A horizontal dimension line at the top indicates a length of 5.75". A vertical dimension line on the left indicates a height of 1.55". The roof surface is shown with a stippled pattern, and there are several circular elements (possibly fasteners or vents) visible along the slope.

A side elevation drawing of the roof structure. It shows a horizontal span of 7.5 feet and a vertical height of 1.55 feet. The roof is supported by a series of vertical posts. The roof surface is indicated by a dashed line.

Technical drawing of the rear view of the seat. The drawing shows the rear of the seat with a textured surface. 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. The drawing includes a small detail of a fastener or adjustment mechanism on the right side.

Technical drawing of a mechanical part with the following dimensions:

- Overall height: 1.25"
- Overall width: 4.56"
- Right side height: 0.75"
- Bottom width: 2.36"



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P.E. No. 43409

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

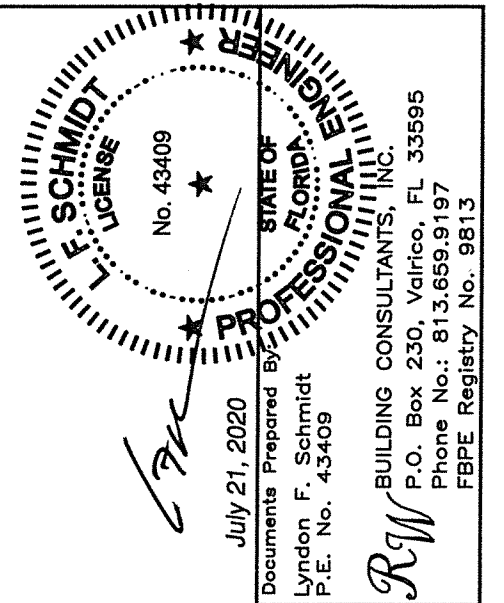
PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		COMPONENTS	
1	7/20/20	UPDATE TO 7th ED (2020)	FBC
NO.	DATE		
		REVISIONS	
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.9			
SHEET 12 OF 13			

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
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
34	INSWING THRESHOLD	ALUM/COMP
35	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	-
60	DOOR PANEL (BOOK) - "TRADITIONS" SERIES	-
61	DOOR PANEL (HYBRID) - "TRADITIONS" SERIES	-
62	DOOR PANEL (U1) - "TRADITIONS" SERIES	-

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"

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

[illegible]