

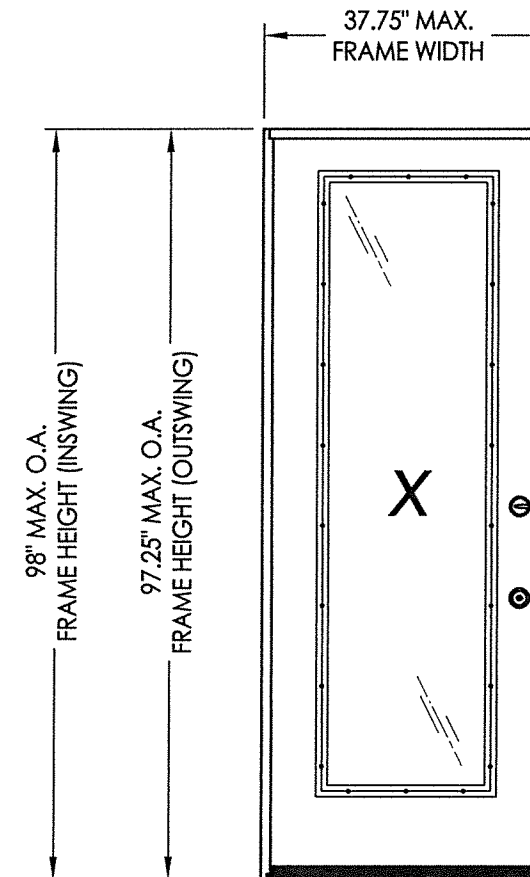
Traditions

**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.

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SHEET#	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
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6	Horizontal & Vertical Cross Sections (Direct to Masonry)
7	Vertical Cross Sections (Thresholds)
8	Buck & Frame Anchoring
9	Hardware Details
10	Glazing Details
11	Components
12	Bill of Materials



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	+47.0	-50.0	+47.0	-47.0



[Signature]

July 21, 2020

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

PRODUCT: THERMA-TRU STEEL DOOR

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

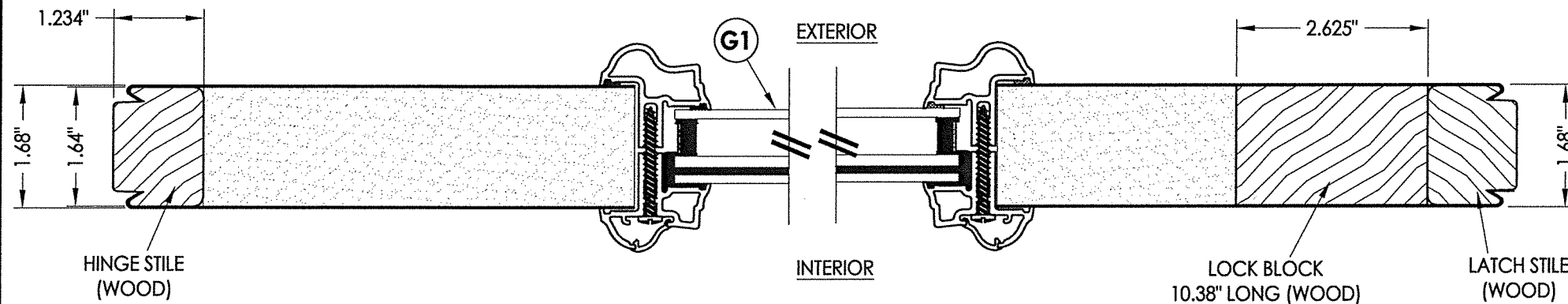
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 10/12/17		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS		DRAWING NO.: FL-21132.12	
1	7/20/20	UPDATE TO	7th ED (2020)	FBC	LFS	REVISIONS			
NO.	DATE				BY				

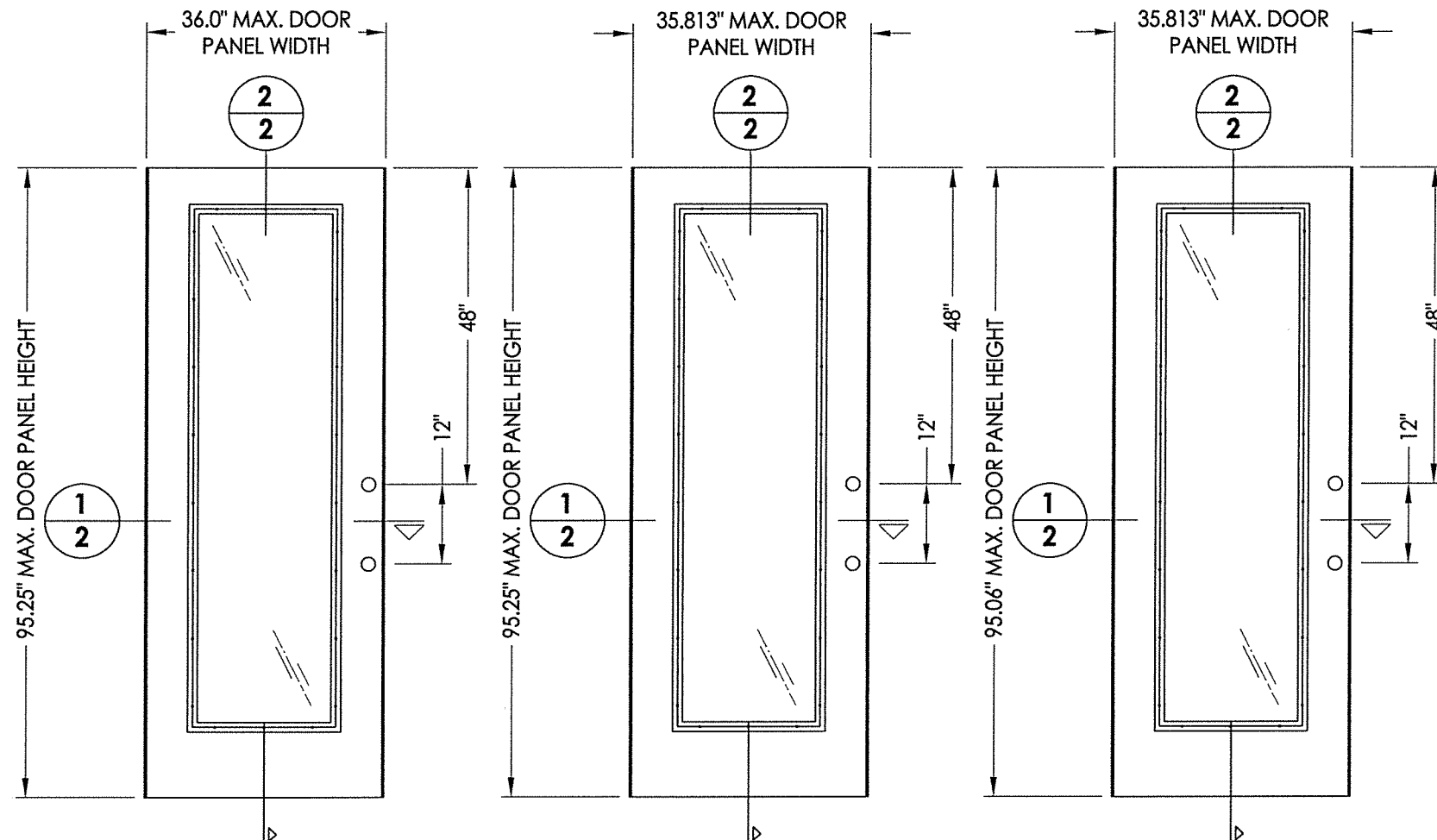
SHEET 1 OF 12

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R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZC - Drawings\FL 21132 (2020)\FL-21132.12-14.dwg, 2.6



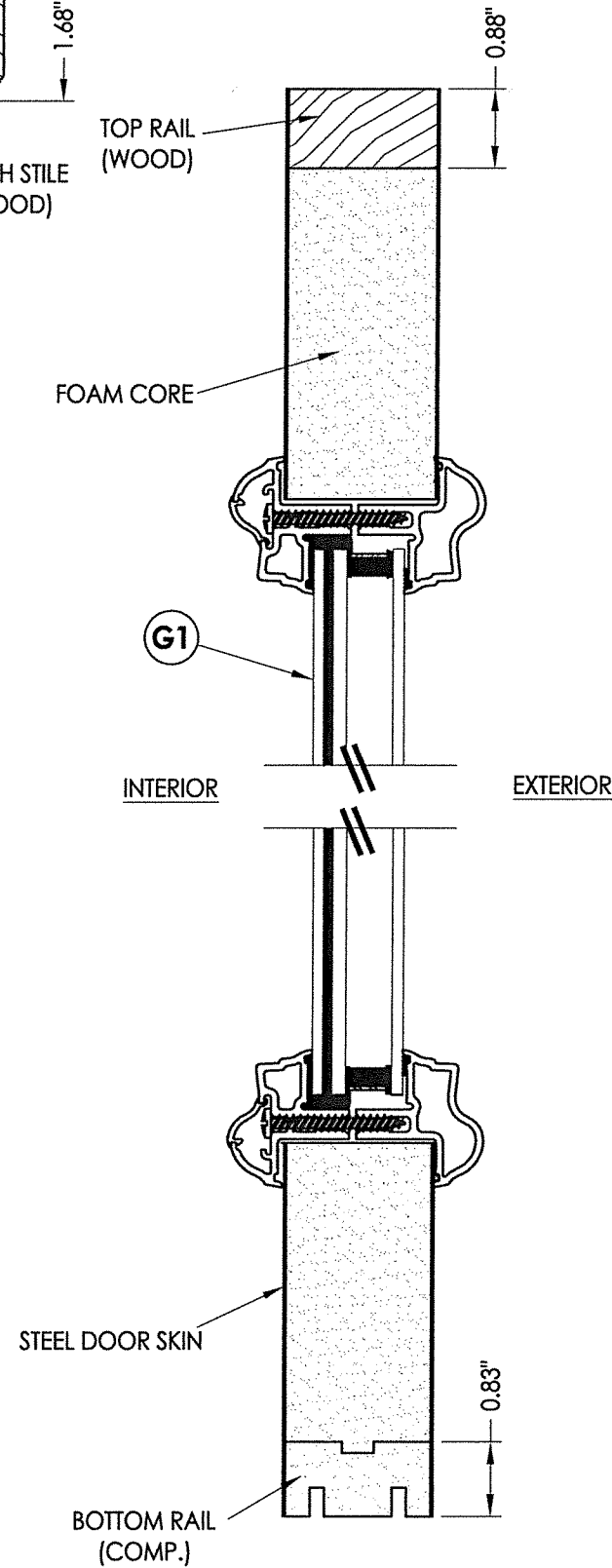
1
2 HORIZONTAL CROSS SECTION



40 DOOR PANEL BOOK

41 DOOR PANEL Hybrid Door

42 DOOR PANEL U1 Door



2
2 VERTICAL CROSS SECTION

Professional Engineer
F. SCHMIDT
LICENSE No. 43409
STATE OF FLORIDA
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:		PART OR ASSEMBLY:	
THERMA-TRU STEEL DOOR		"TRADITIONS" DOOR PANEL DETAILS	
NO.	DATE	REVISIONS	BY
1	7/20/20	UPDATE TO 7th ED (2020) FBC	LFS

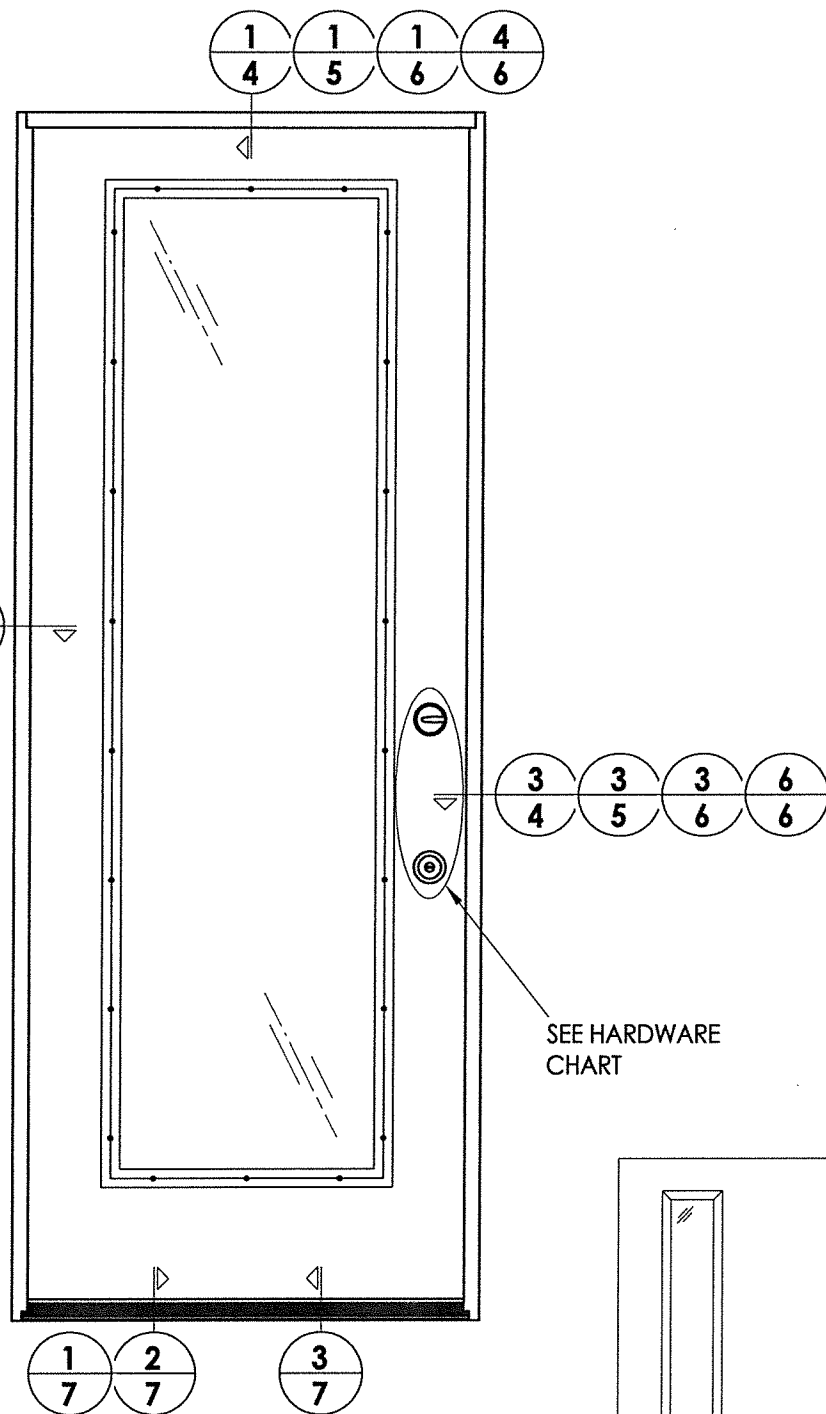
DATE: 10/12/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21132.12
SHEET 2 OF 12

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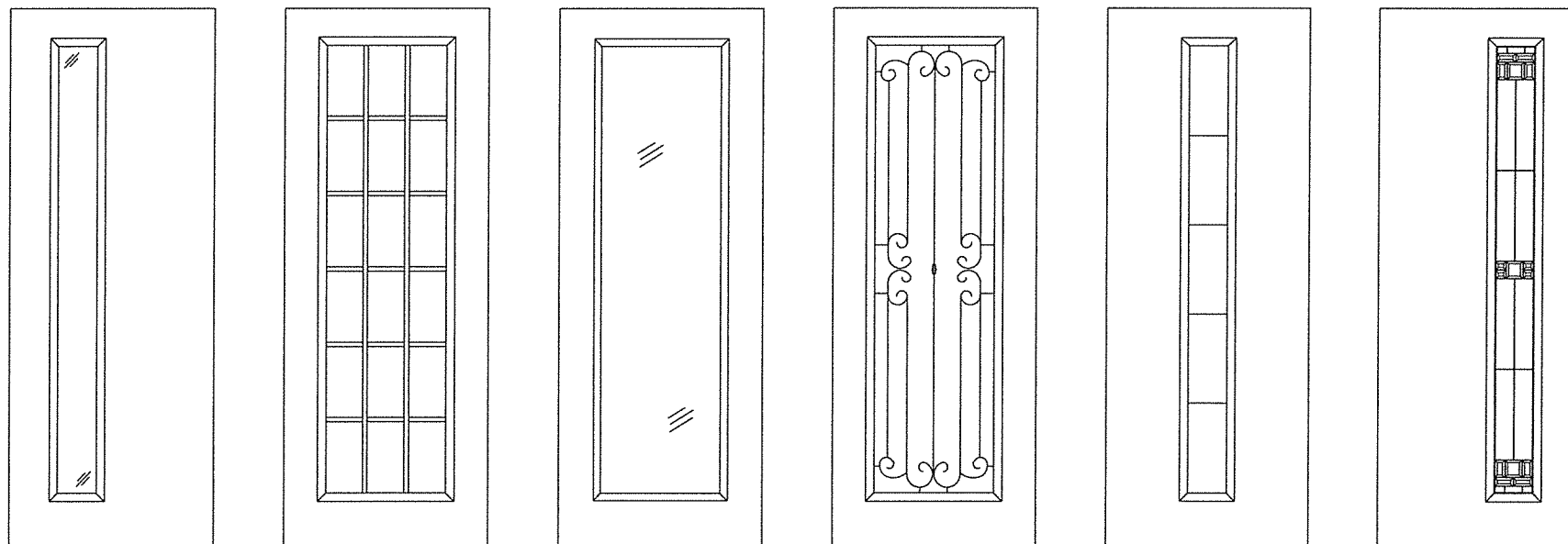
"TRADITIONS" SERIES DOOR PANEL

STEEL DOOR SKIN: 24 GA. (0.022" MIN. THICKNESS, F_y = 48,470 PSI MIN.)

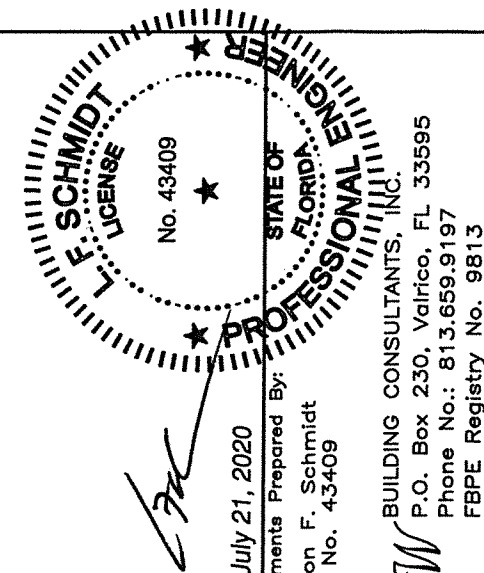
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)



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



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

July 21, 2020
ments Prepared

July 21, 2020

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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

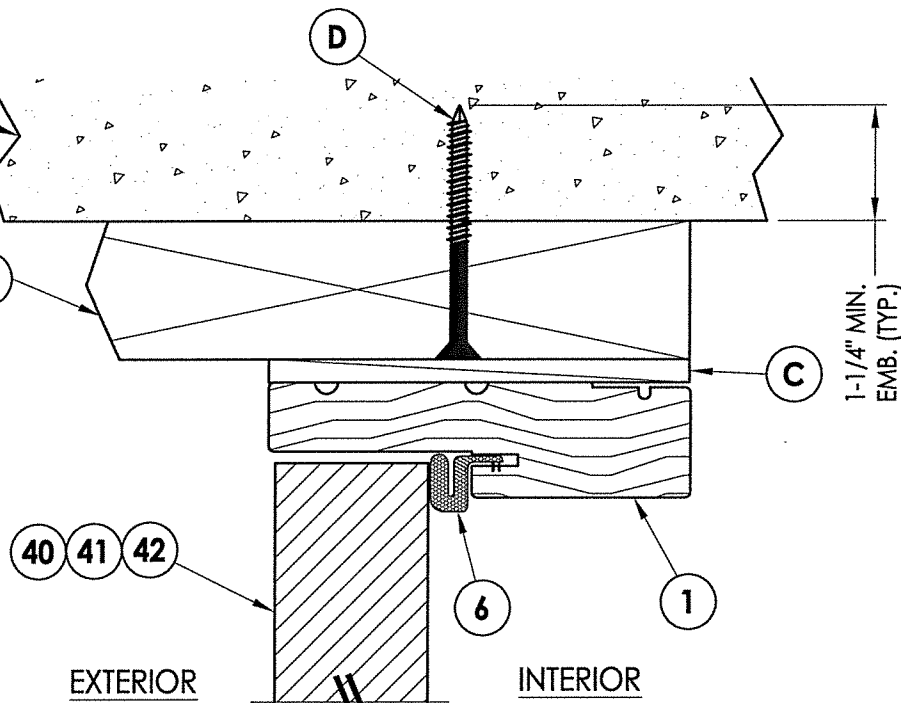
PART OR ASSEMBLY:

[illegible]

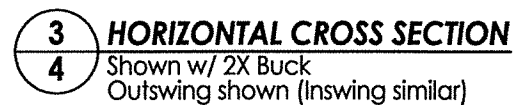
DATE:	10/12/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21132.12
SHEET	3 OF 12

Documents Prepared By:
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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



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



<u>PRODUCT:</u>		THERMA--TRU STEEL DOOR		<u>PART OR ASSEMBLY:</u> HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
DATE: 10/12/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.:					
FL-21132.12					
SHEET 4 OF 12					

E

A

1X Buck to be secured to masonry by others

C

40 41 42

6

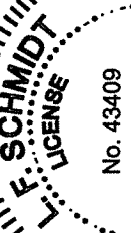
1

EXTERIOR

INTERIOR

Technical drawing of a window frame cross-section, showing both interior and exterior views. The drawing includes the following labels and components:

- Interior View (Left):**
 - 40, 41, 42:** Labels for the exterior wall assembly.
 - 27:** Label for the interior wall assembly.
 - 1:** Label for the window frame sash.
 - A:** Label for the window frame sash.
 - 6:** Label for the window frame sash.
 - C:** Label for the window frame sash.
 - E:** Label for the window frame sash.
 - J:** Label for the window frame sash.
 - G:** Label for the window frame sash.
- Exterior View (Right):**
 - 1-1/4" MIN. EMB. (TYP.):** Dimension indicating the minimum embedding of the frame into the exterior wall.



 July 21, 2020

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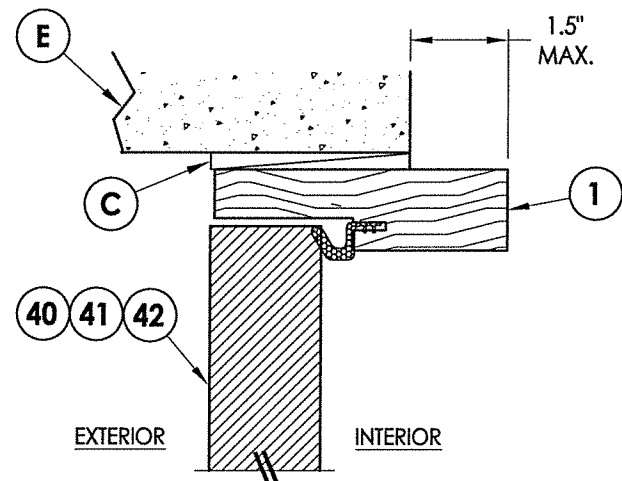
 Phone No.: 813.659.9197

 FBPE Registry No. 9813

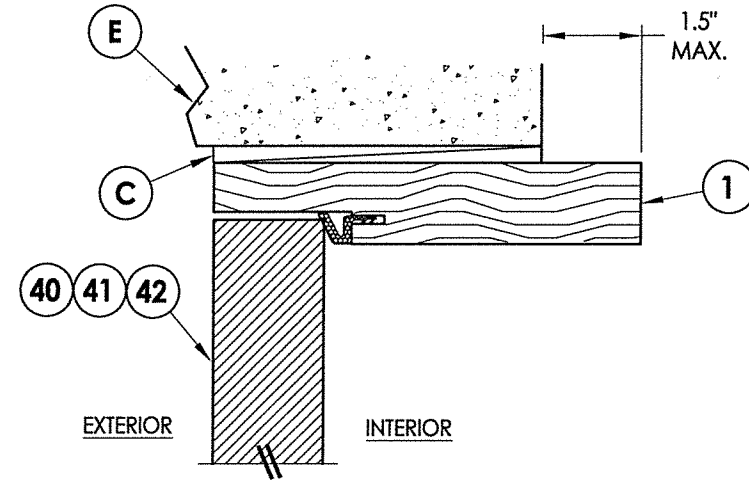
DATE: 10/12/17		PRODUCT:		THERMA-TRU STEEL DOOR	
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS				PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
DRAWING NO.: FL-21132.12					
SHEET 5 OF 12					
1		7/20/20	UPDATE TO 7th ED (2020)	FBC	LFS
NO.		DATE			BY
REVISIONS					

3 HORIZONTAL CROSS SECTION

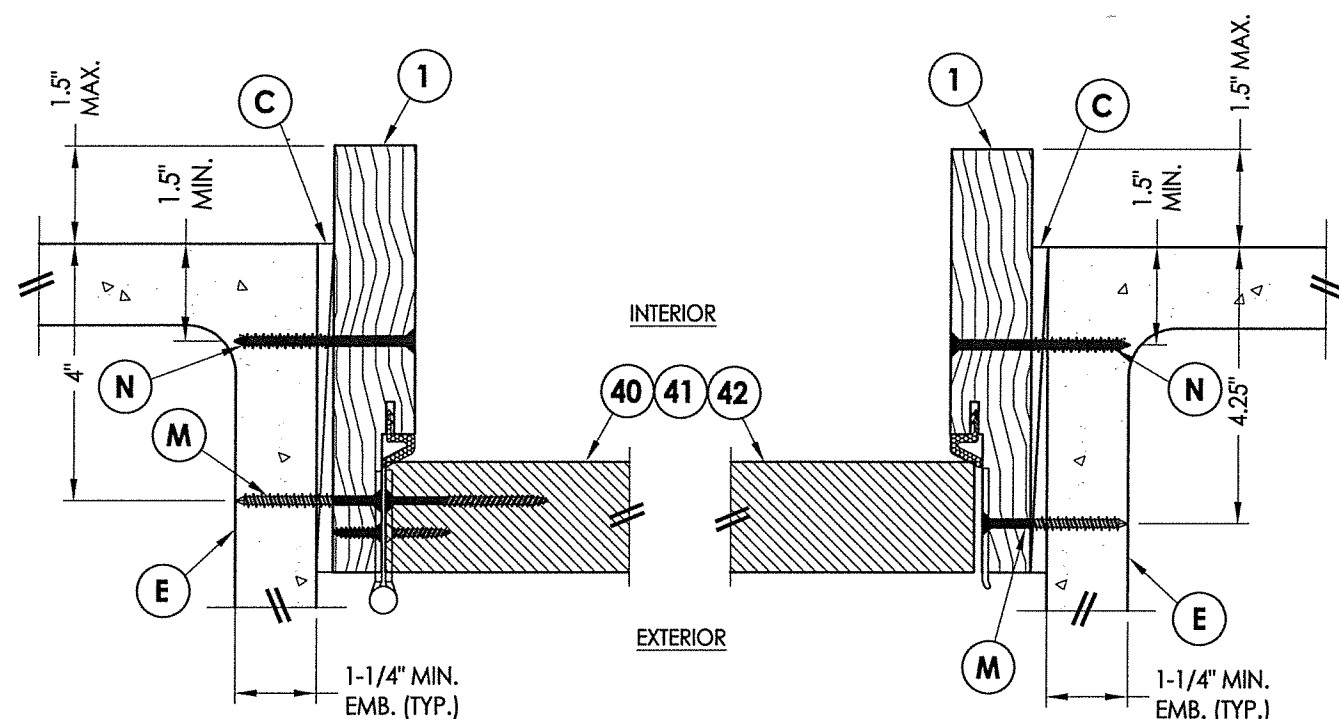
6 Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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

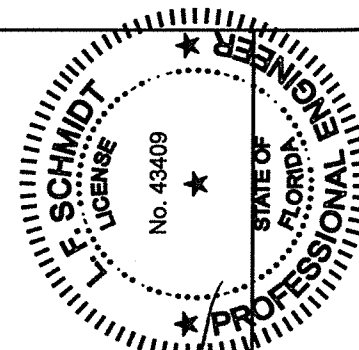


4 **VERTICAL CROSS SECTION**
6 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



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

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

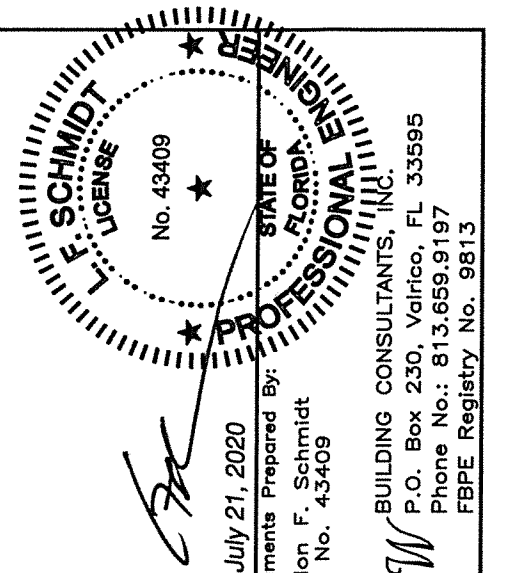


July 21, 2020
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Phone No.: 813.659.9197
FBPE Registry No. 9813

[illegible]

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.



July 21, 2020

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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:
**VERTICAL CROSS
SECTIONS (THRESHOLDS)**

[illegible]

SHEET 7 OF 12

DETAIL

L

2X BUCK

G

1X BUCK

M

DIRECT TO MASONRY

23



July 21, 2020

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

PRODUCT:

THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:

HARDWARE DETAILS

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

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

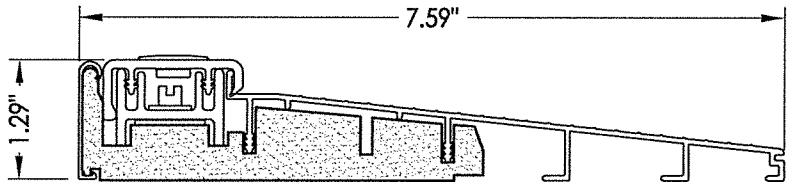
CHK. BY: LFS

DRAWING NO.: FL-21132.12

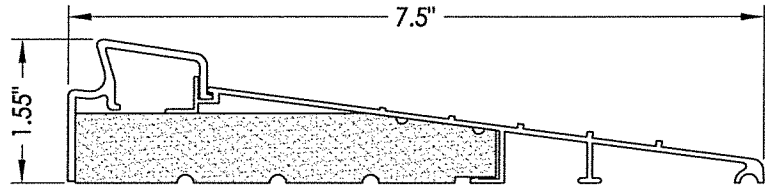
SHEET 9 **OF** 12

REVISIONS

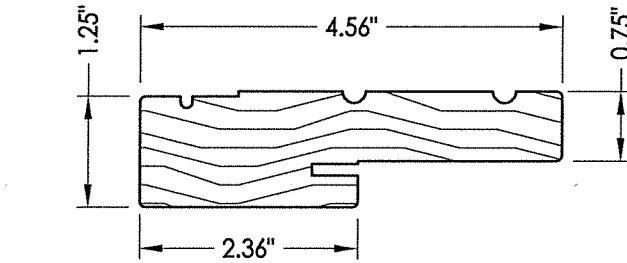
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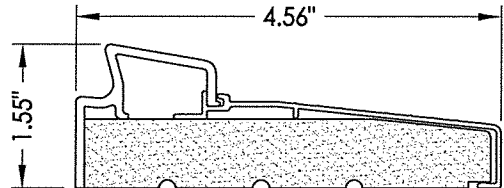
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



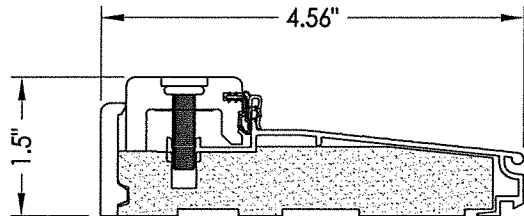
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



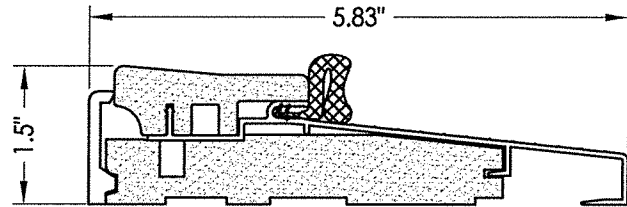
1 WOOD JAMB



33 INSWING THRESHOLD
Inswing Basic Fixed Sill

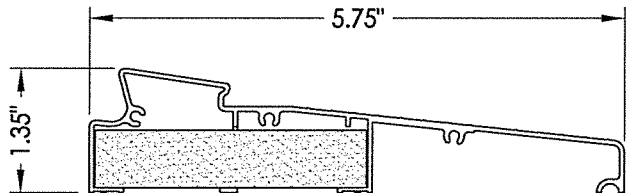


38 INSWING THRESHOLD
Inswing Composite Adjustable Sill

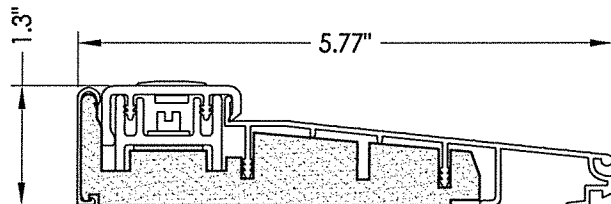


16 OUTSWING THRESHOLD
Composite Sill

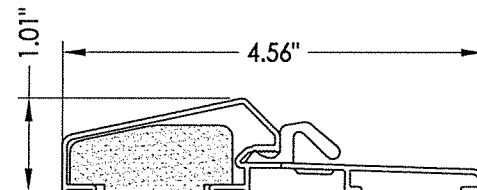
MAX. +55 PSF
(where water infiltration is required)



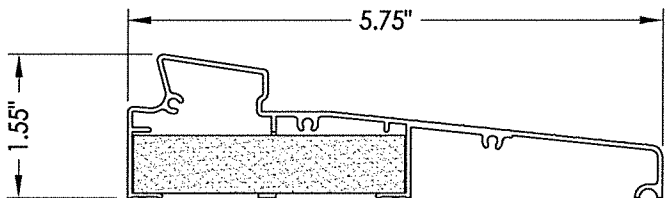
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



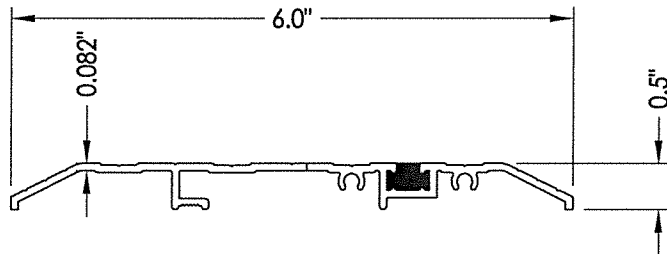
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



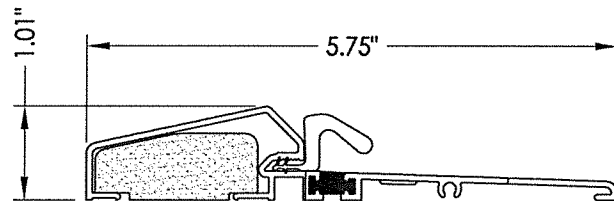
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



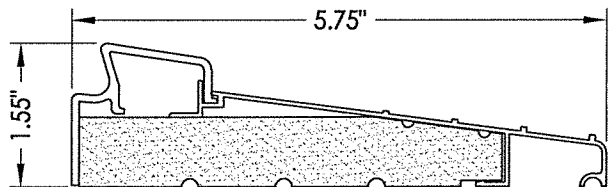
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



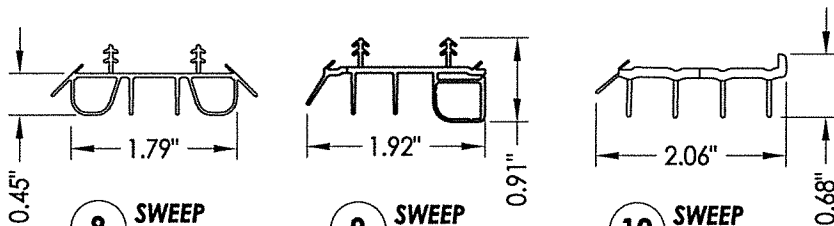
15 PUBLIC ACCESS THRESHOLD



18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



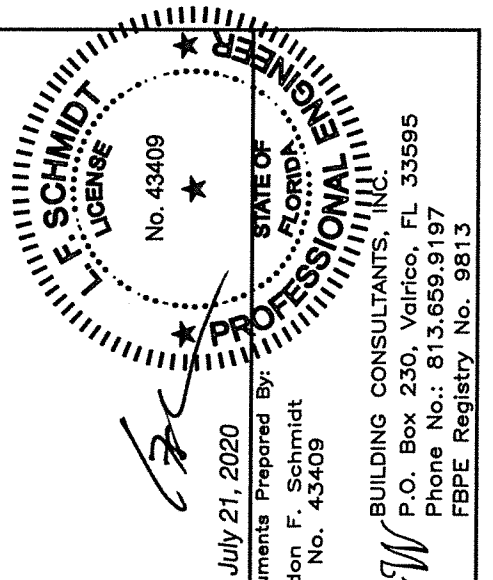
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



8 SWEEP

9 SWEEP

10 SWEEP



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:

COMPONENTS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21132.12

SHEET 11 OF 12

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	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	34	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	35	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	36	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	37	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	38	INSWING THRESHOLD	ALUM/COMP
8	SWEEP	VINYL	39	INSWING THRESHOLD	ALUM/COMP
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	40	DOOR PANEL (BOOK) -"TRADITIONS"	-
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	41	DOOR PANEL (HYBRID) -"TRADITIONS"	-
15	PUBLIC ACCESS THRESHOLD	ALUM	42	DOOR PANEL (U1) -"TRADITIONS"	-
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			

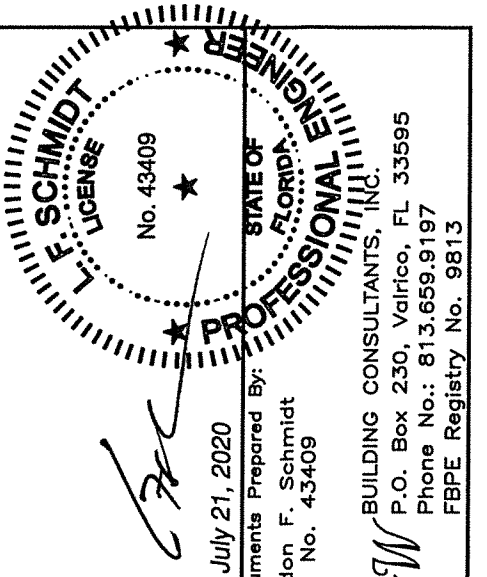
CONCRETE ANCHOR NOTES:

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.



July 27, 2020

Documents Prepared

Lyndon F. Schmitz
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197
ERDF Registry No. 0813

FORE REGISTRY NO. 2013

**THERMA-TRU
STEEL DOOR**

PART OR ASSEMBLY:

BILL OF MATERIALS

LFS

19

UPDATE TO 7th ED (2020) FBC

REVISIONS

[illegible]

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21132.12

SHEET 12 OF 12