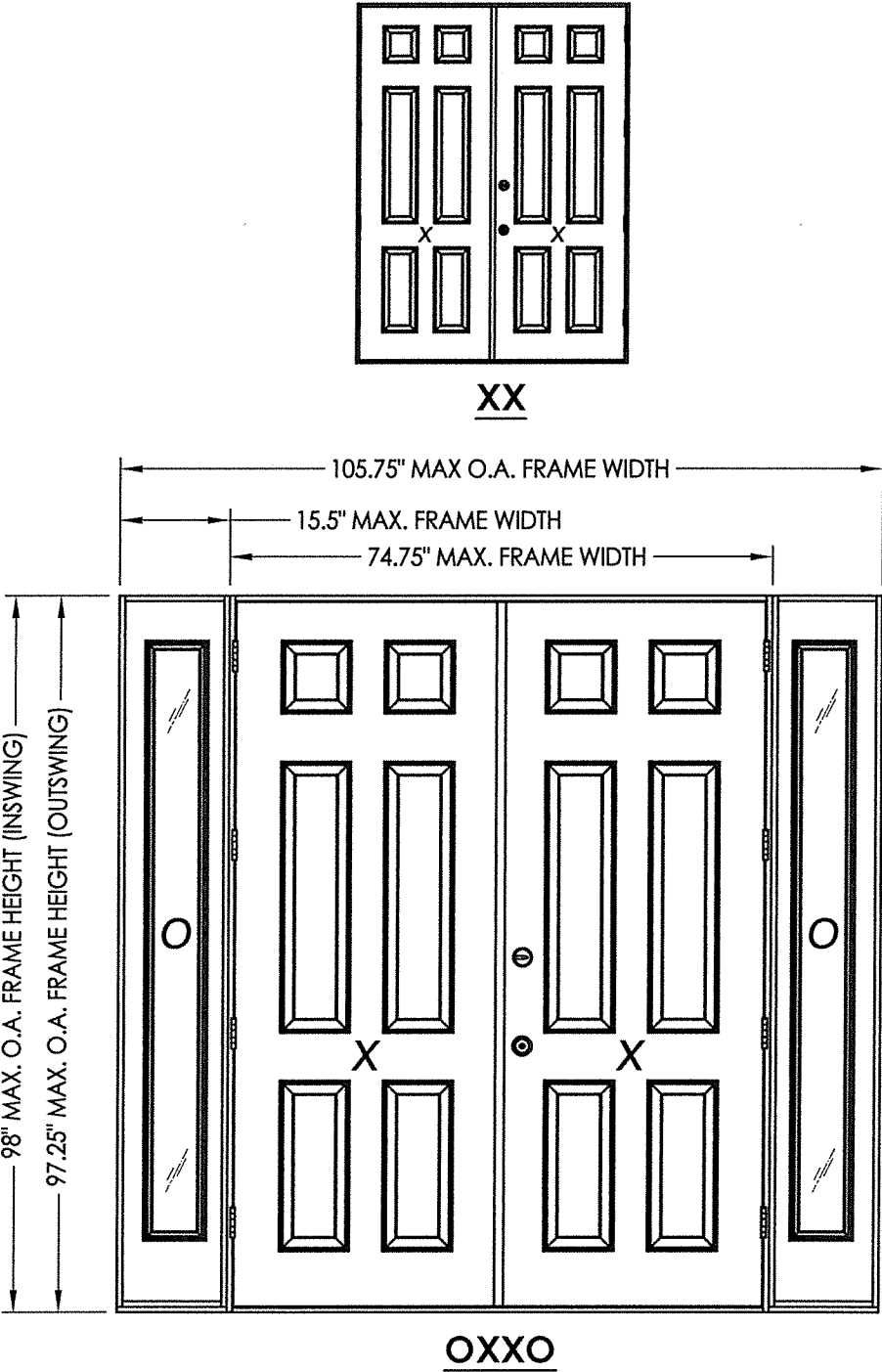


WOOD EDGE
OPAQUE "IMPACT" STEEL DOUBLE DOOR
w/ or w/out "NON-IMPACT" SIDELITE(S)
INSWING/OUTSWING

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, the opaque door complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. The opaque door meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1. The non-impact sidelites must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.
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	9	Buck Anchoring
3	Sidelite Panel Details	10	Frame Anchoring
4	Elevations	11	Hardware 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	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	+60.0	-60.0	+60.0	-60.0
OXXO	+60.0	-60.0	+60.0	-60.0

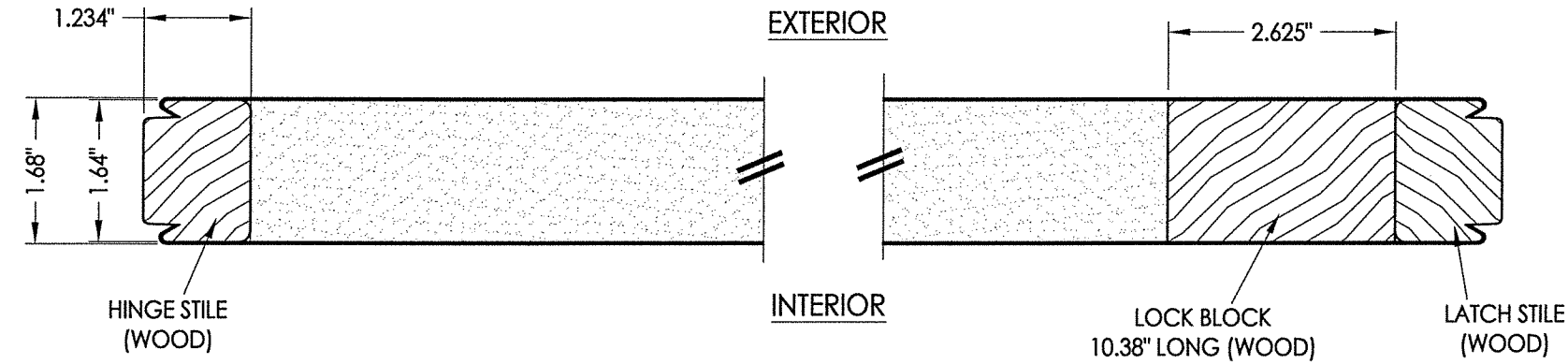
Professional Engineer
F. SCHMIDT
No. 43409
July 21, 2020

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Lyndon F. Schmidt
P.E. No. 43409

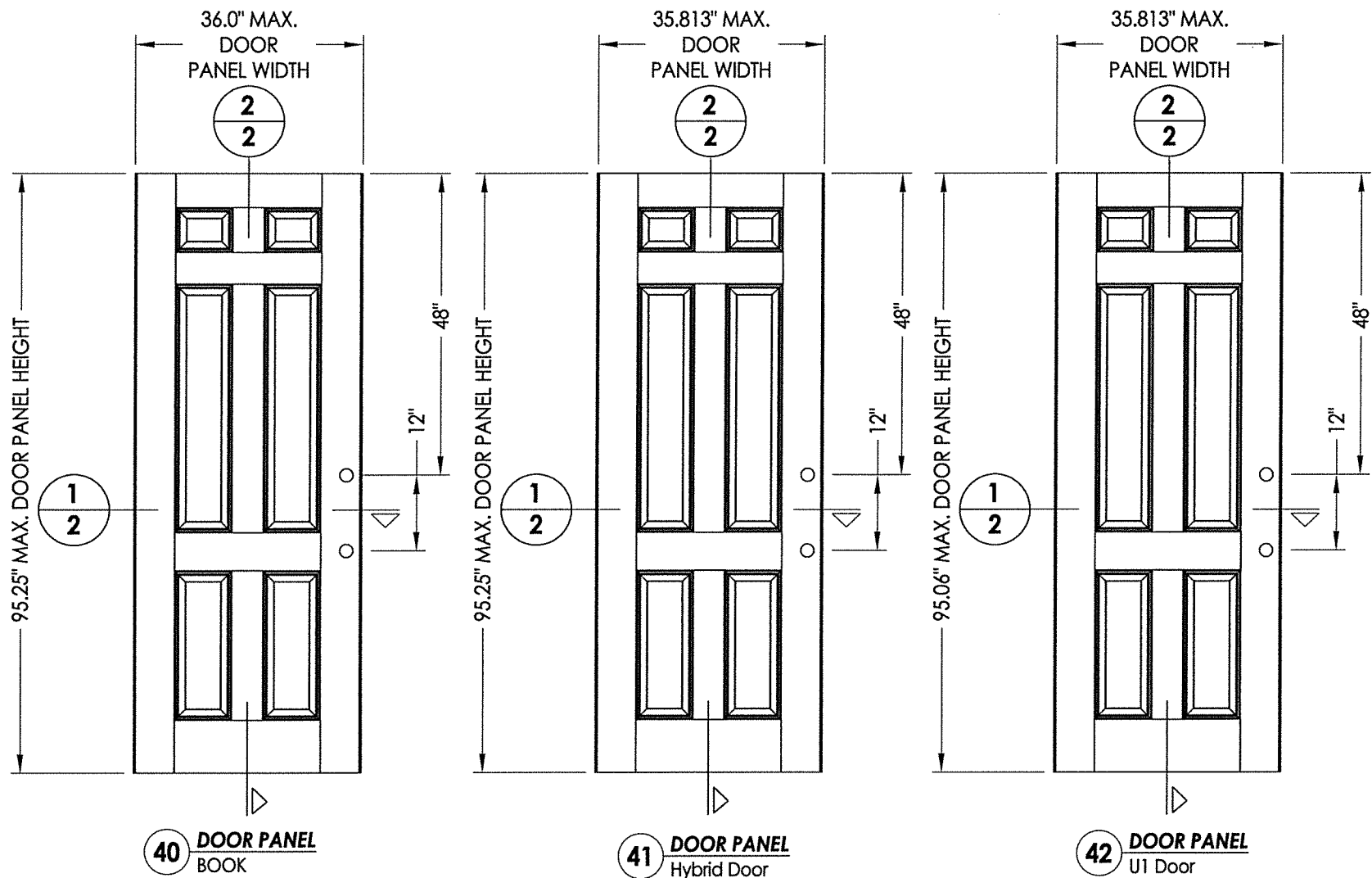
Professional Engineer
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
DATE		10/12/17	DATE
SCALE		N.T.S.	SCALE
DWG. BY		JK	DWG. BY
CHK. BY		LFS	CHK. BY
DRAWING NO.		FL-21132.8	DRAWING NO.
SHEET		1	OF 13

R:\Clients\Therma Tru PERMANENT\VA - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.6-8.dwg, 2.8

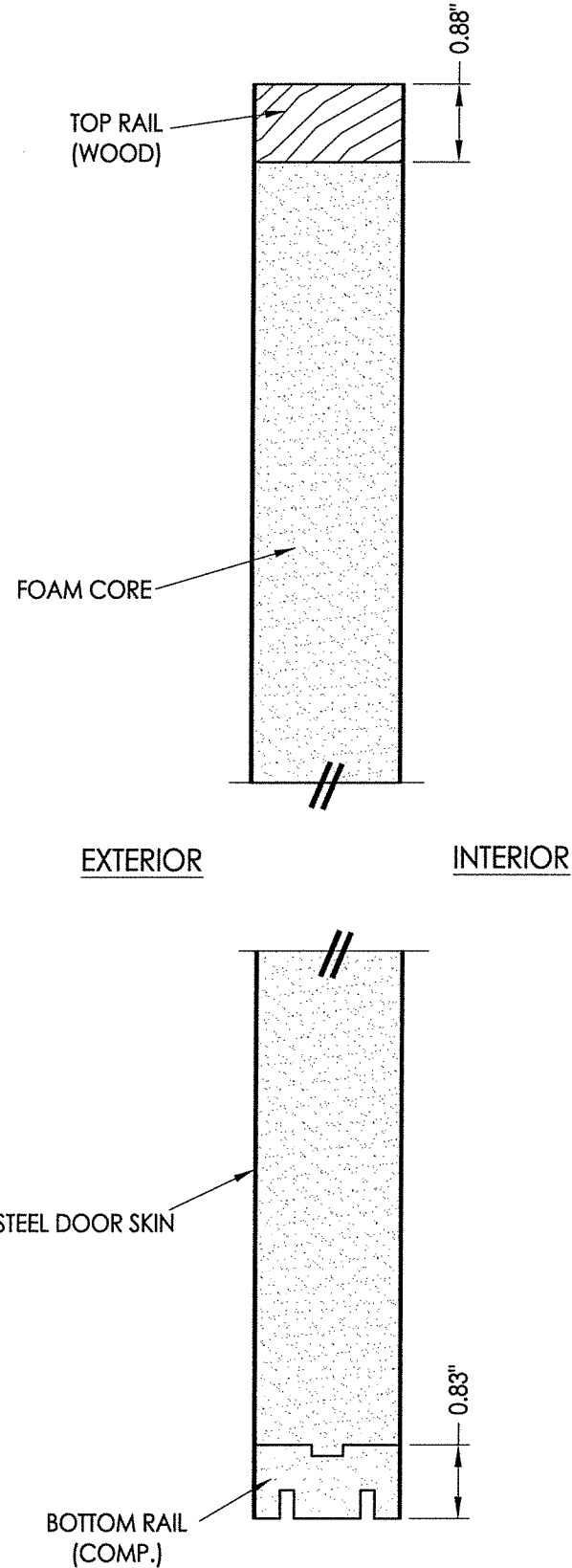


1
2 HORIZONTAL CROSS SECTION



"TRADITIONS" 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.)



2
2 VERTICAL CROSS SECTION

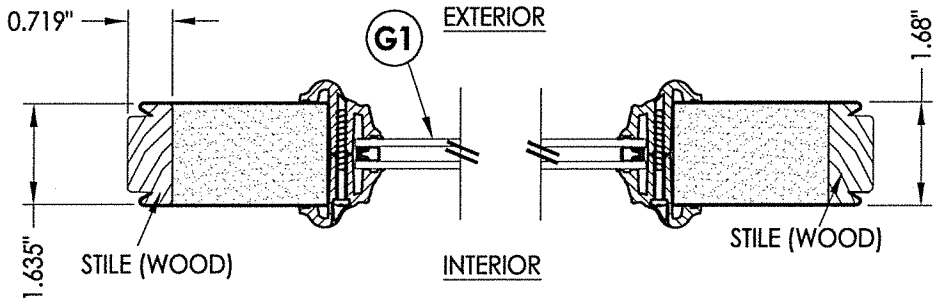
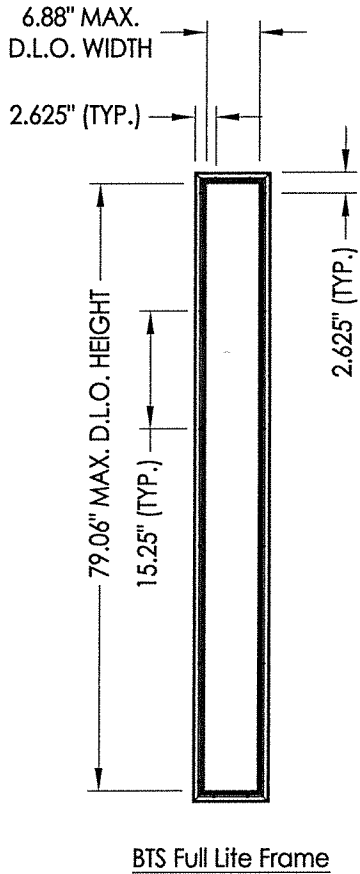
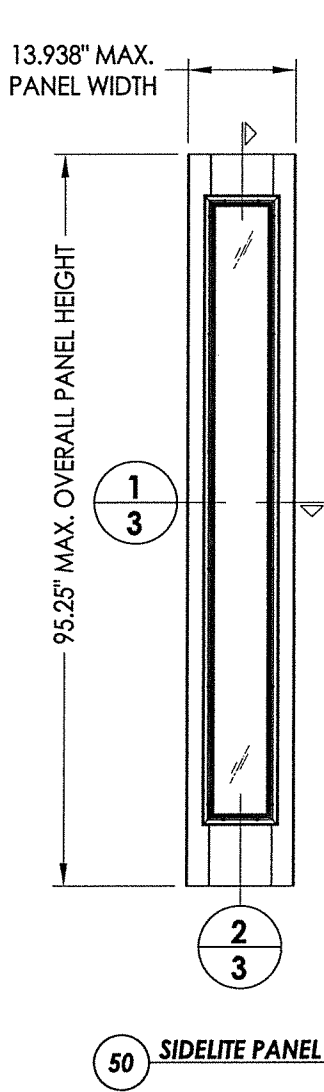
July 21, 2020
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409
No. 43409
FL LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
R.W. BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
DATE:		10/12/17	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21132.8	
SHEET		2	OF 13
REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	7/20/20	UPDATE TO 7th ED (2020) FBC	LFS

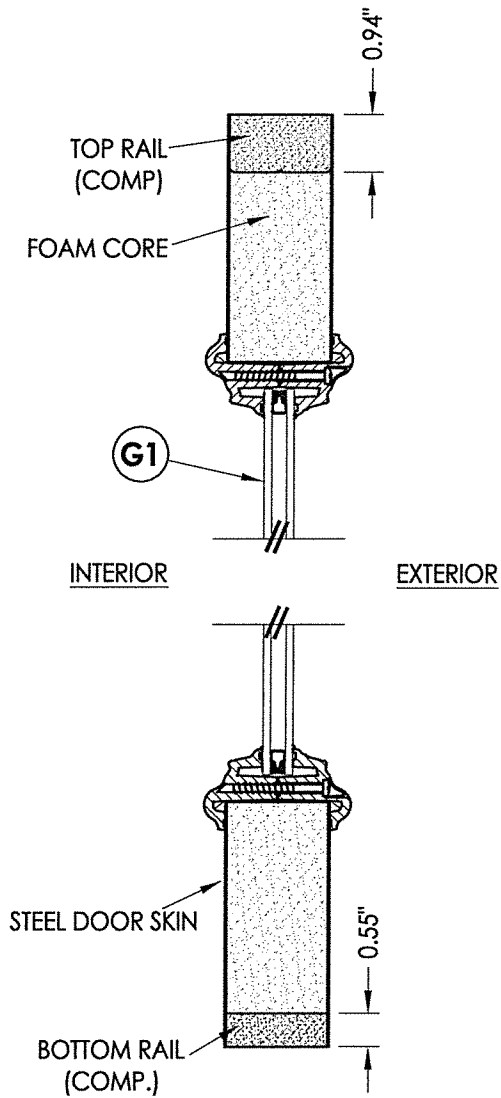
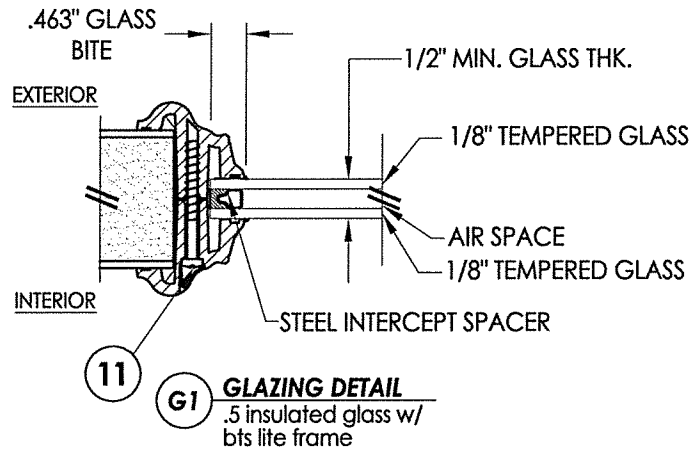
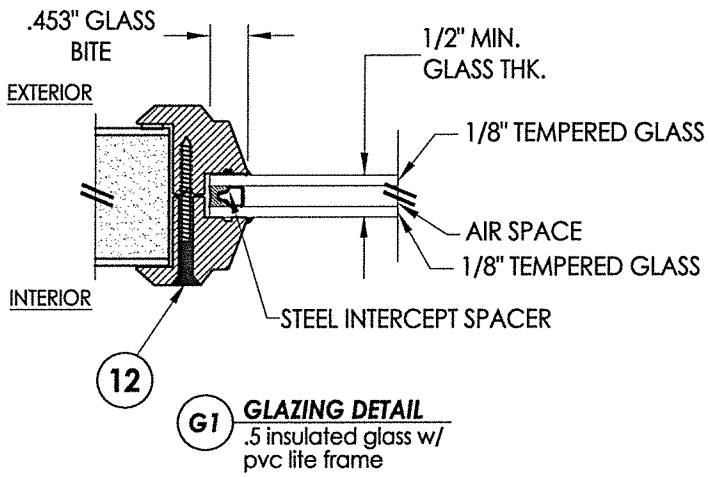
R:\Clients\Therma Tru PERMANENTVA - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.6-8.dwg, 3.8

SIDELITE PANEL

STEEL SKIN "TRADITIONS": 24 GA. (0.022" MIN. THICKNESS, Fy = 48,470 PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)
SIDELITE WOOD COMPONENTS: PINE (SG >= 0.42)



1/3 HORIZONTAL CROSS SECTION



2/3 VERTICAL CROSS SECTION

Professional Engineer Seal for F. Schmidt, License No. 43409, State of Florida. The seal is circular with the text 'F. SCHMIDT', 'LICENSE', 'No. 43409', 'STATE OF FLORIDA', and 'PROFESSIONAL ENGINEER' around the perimeter. A signature is written over the seal.

July 21, 2020
Documents Prepared By
Lyndon F. Schmidt
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FBPE Registry No. 9813

PRODUCT:	THERMA-TRU STEEL DOOR
PART OR ASSEMBLY:	SIDELITE PANEL DETAILS

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-21132.8
SHEET	3 OF 13

[Signature]
July 21, 2020

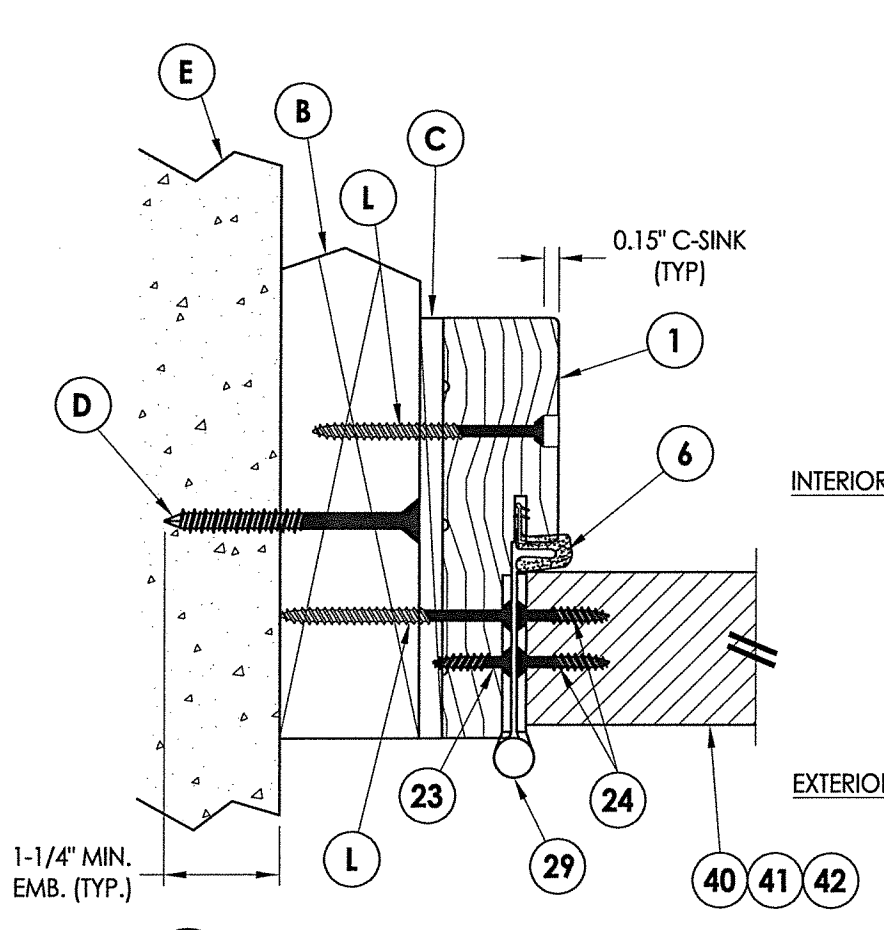
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

**F. SCHMIDT
LICENSE**
No. 43409
★
★
★

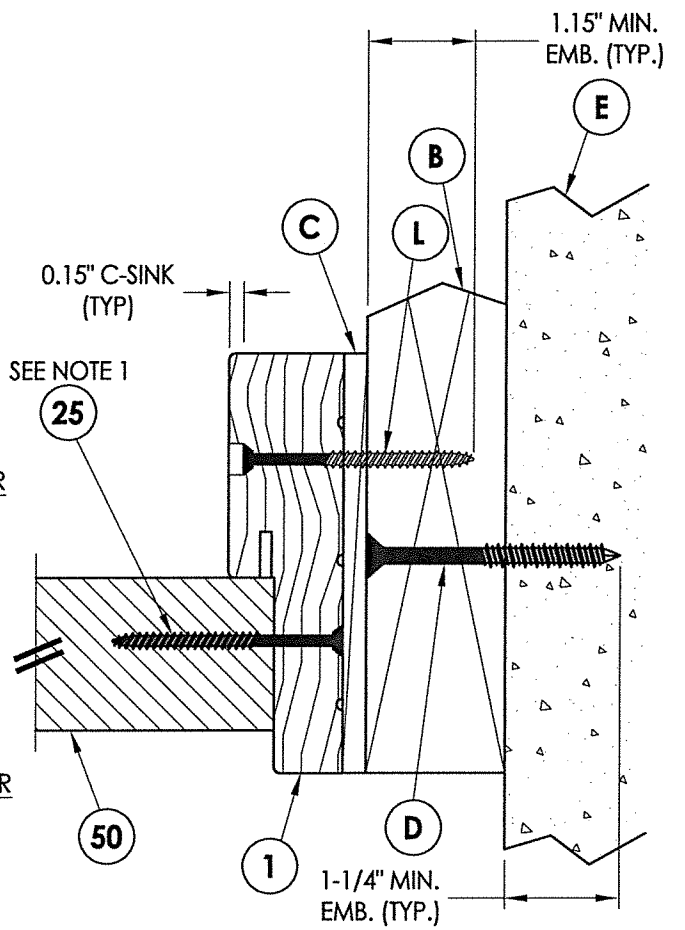
**STATE OF
FLORIDA
PROFESSIONAL ENGINEER**

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

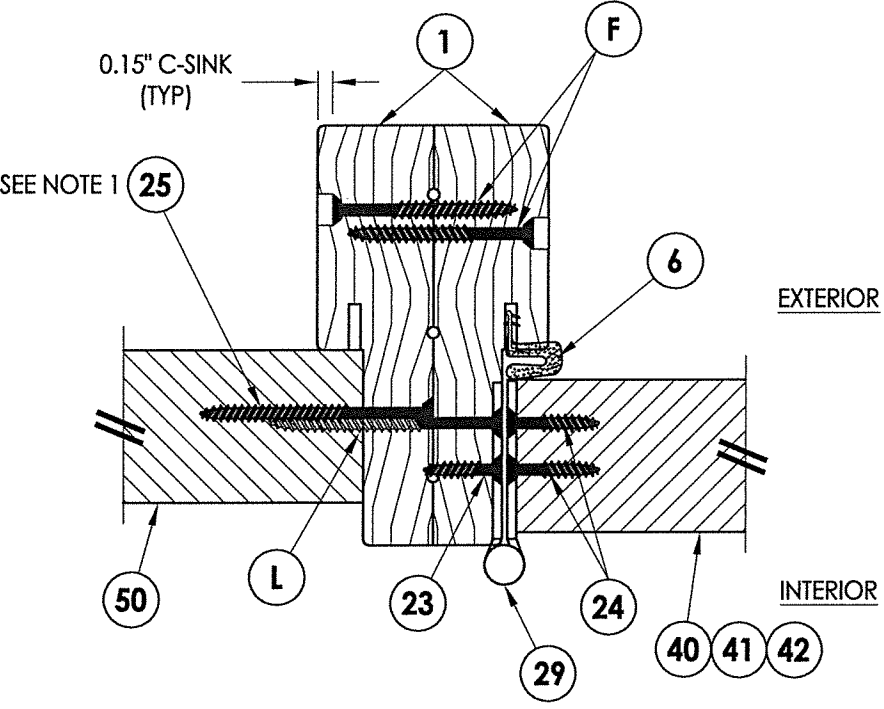
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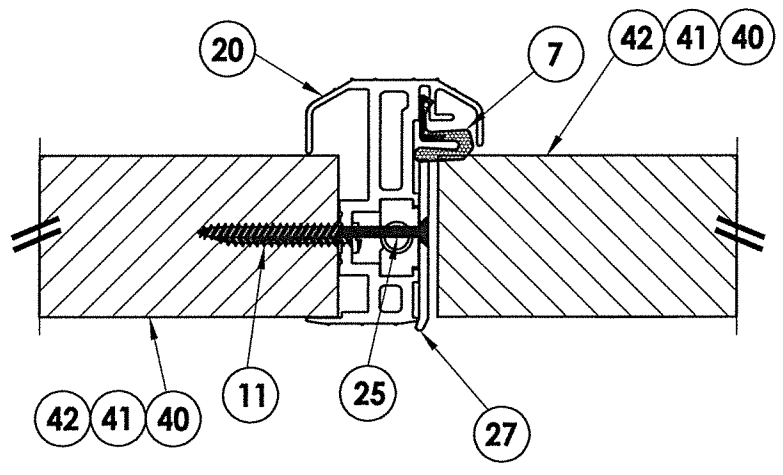
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5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



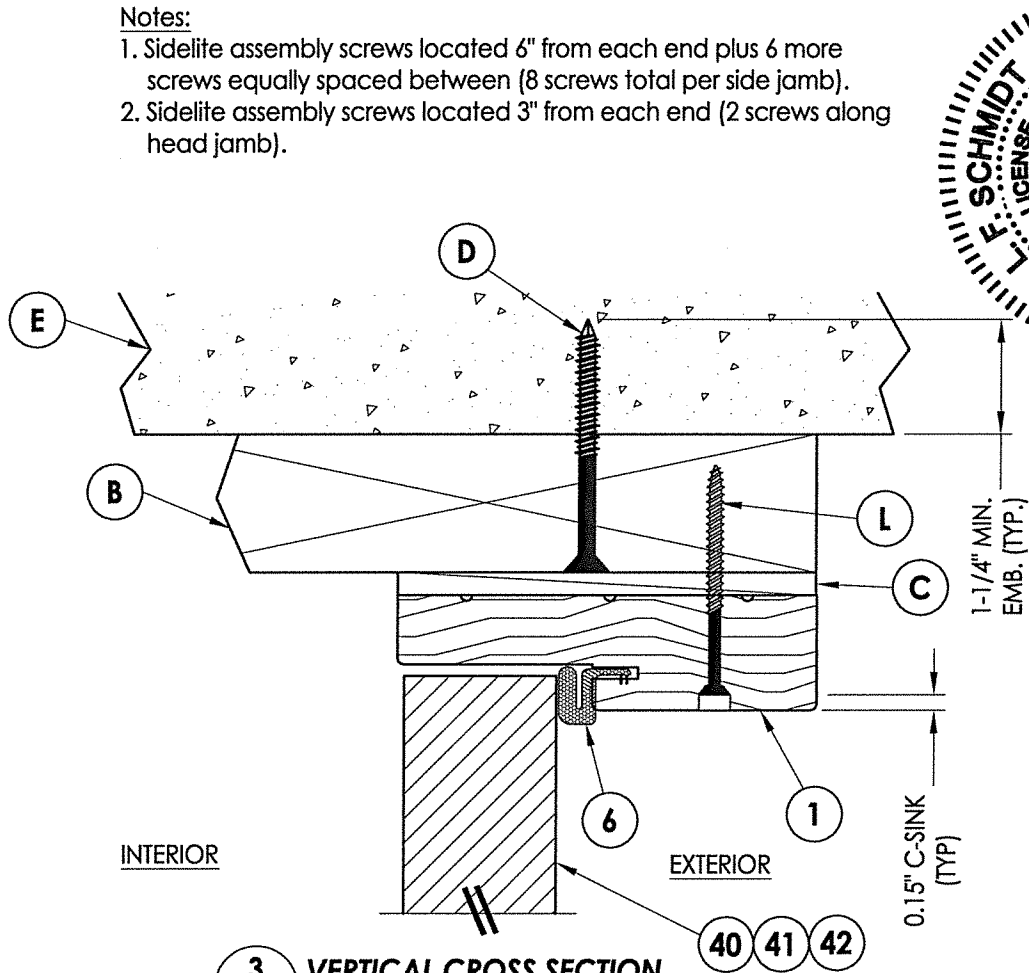
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Outswing shown (Inswing similar)



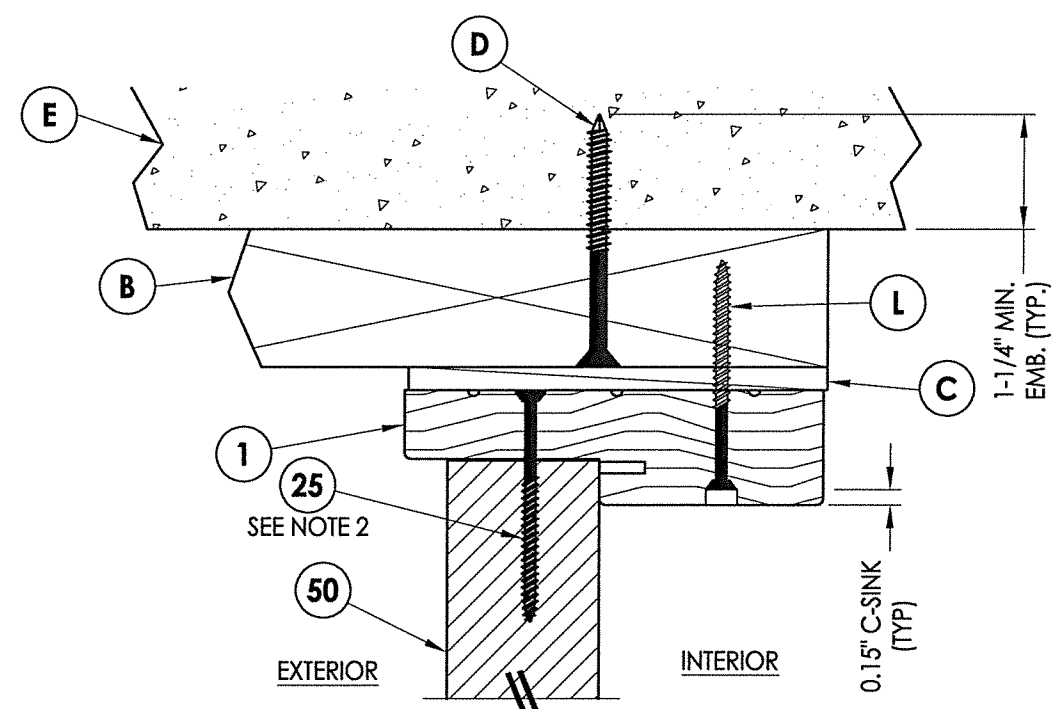
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Inswing shown (Outswing similar)



6
5 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

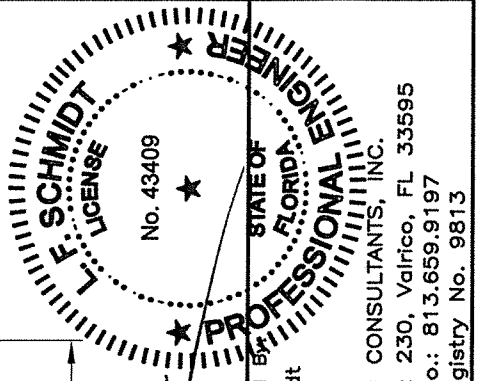


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5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Inswing shown w/ Surface Bolt



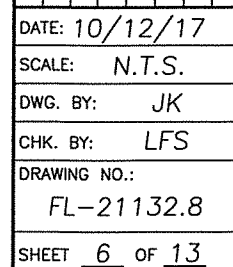
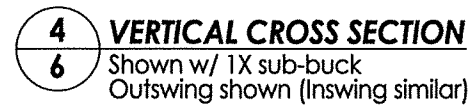
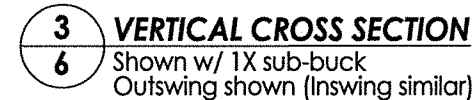
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5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)

- Notes:
- 1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
 - 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



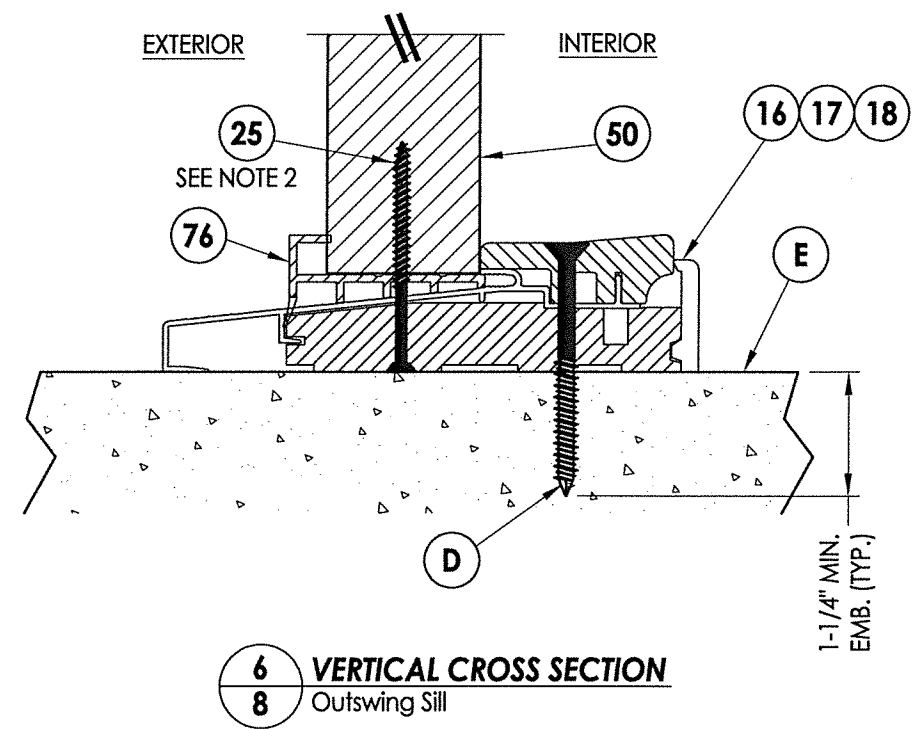
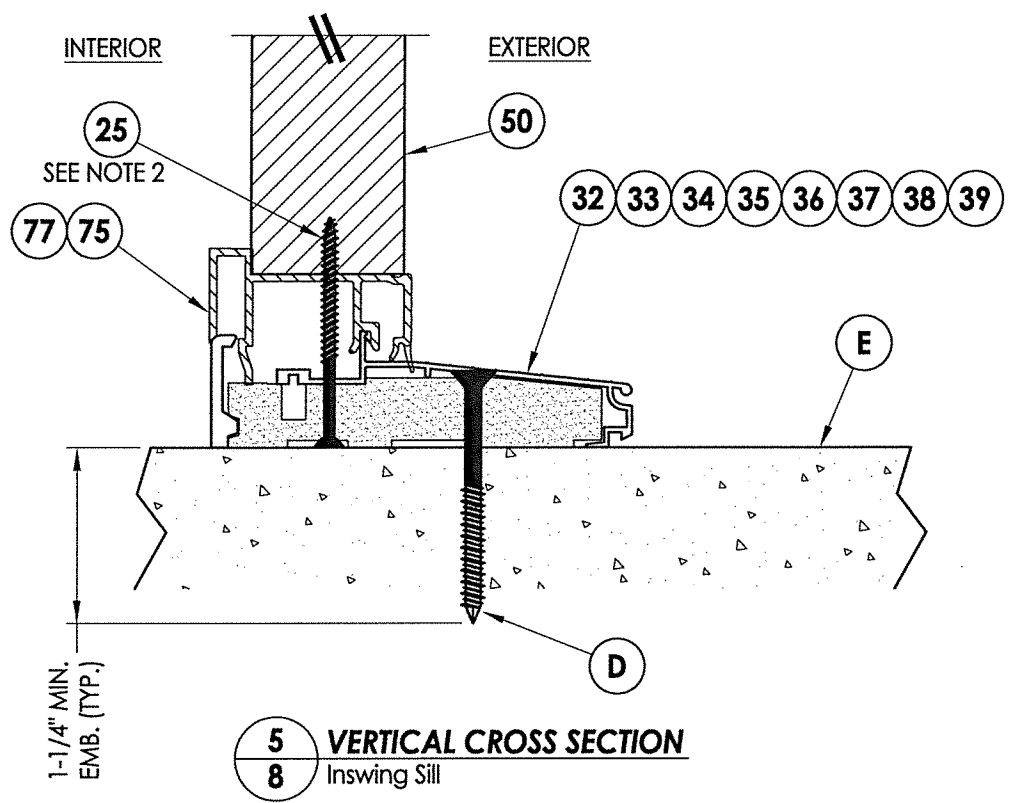
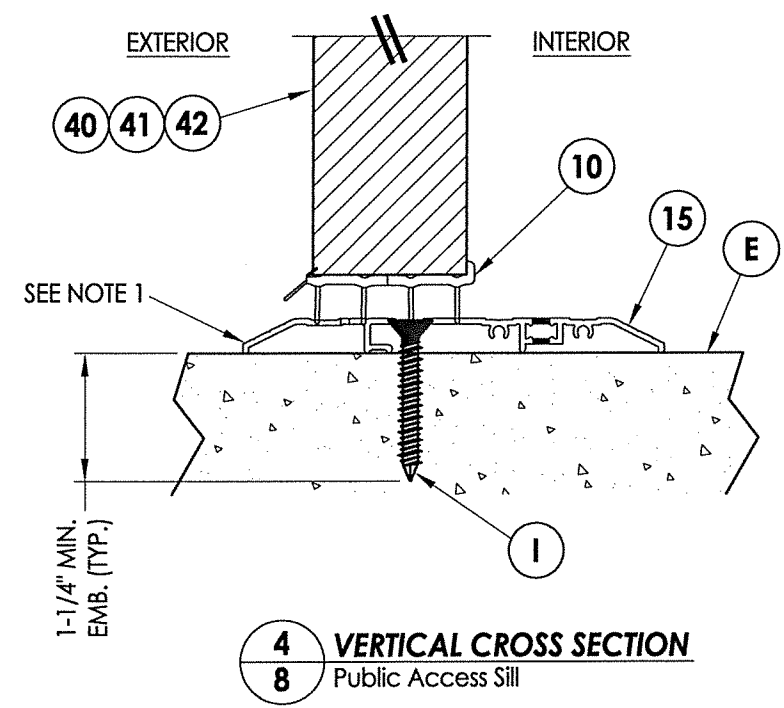
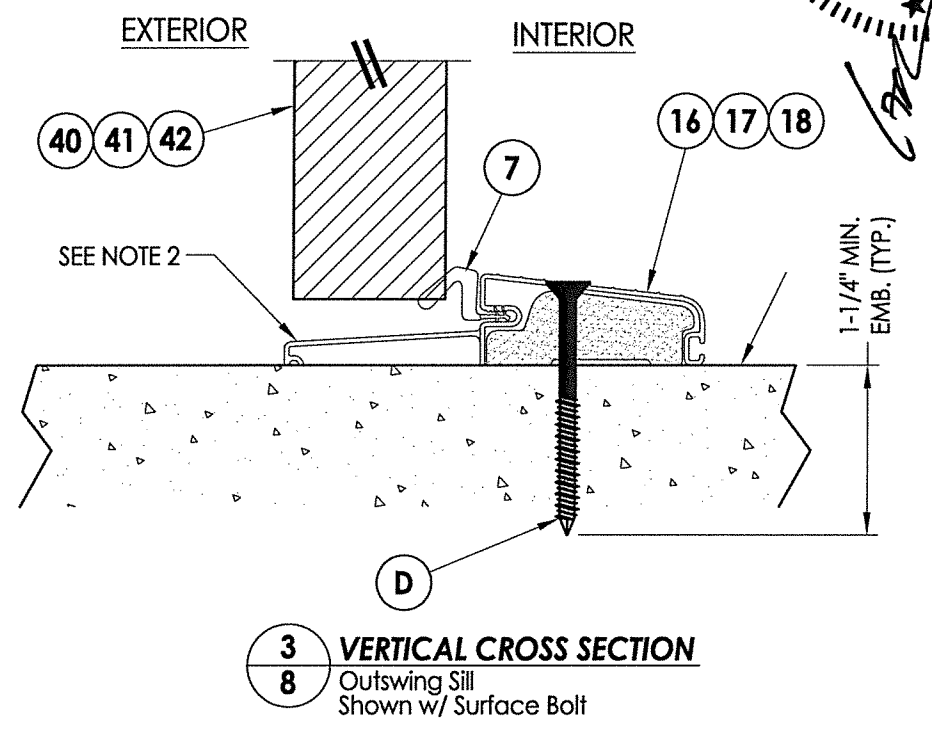
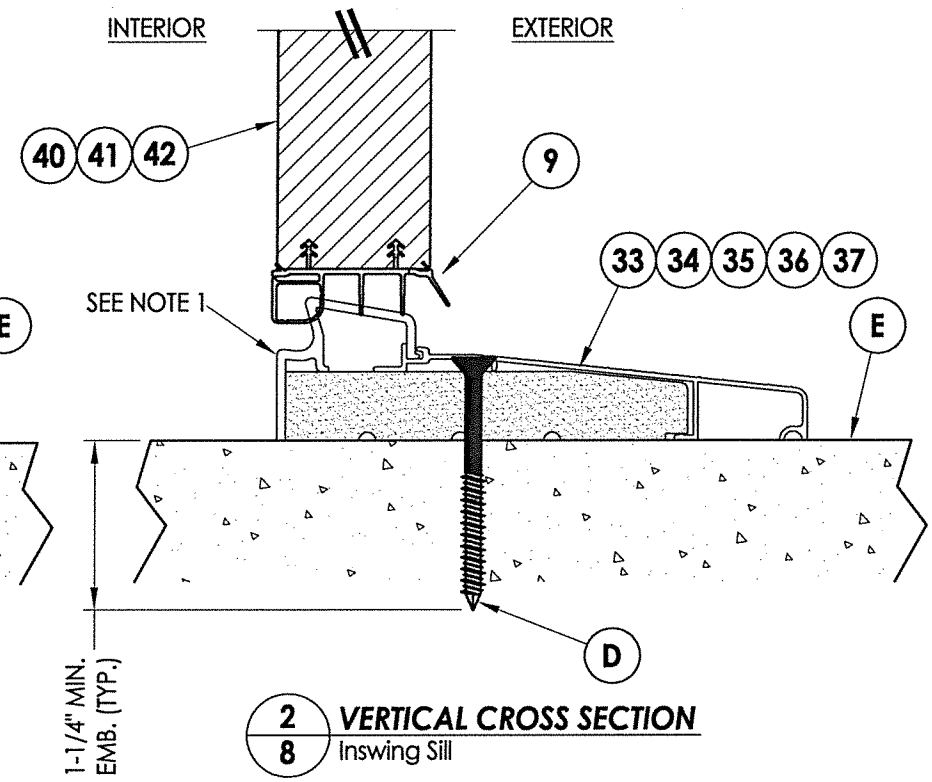
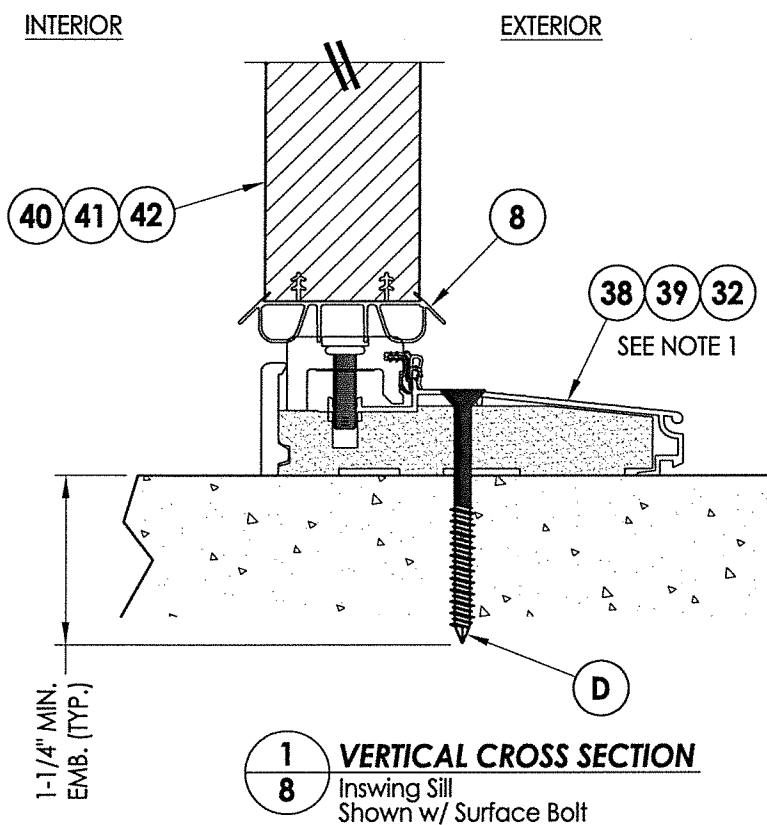
July 21, 2020
Documents Prepared By
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P.E. No. 43409
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
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-21132.8			
SHEET 5 OF 13			



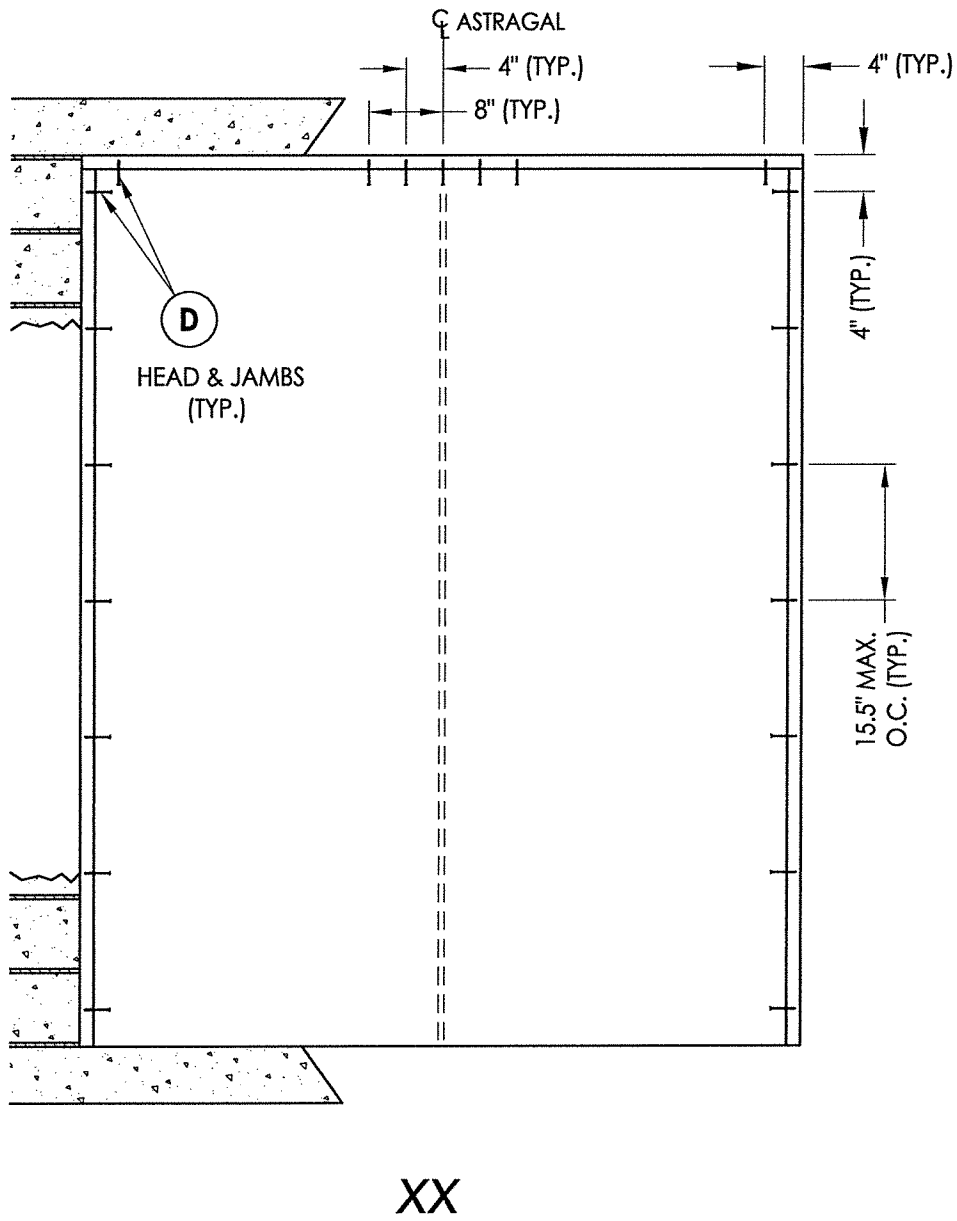
R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZC - Drawings\FL 21132 (2020)\FL-21132.6-8.dwg, 8.8

- Notes:
- 1. Sill Item #'s 17, 18, 19, 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.
 - 2. Sidelite assembly screws located 4" from each end (2 screws along sill).

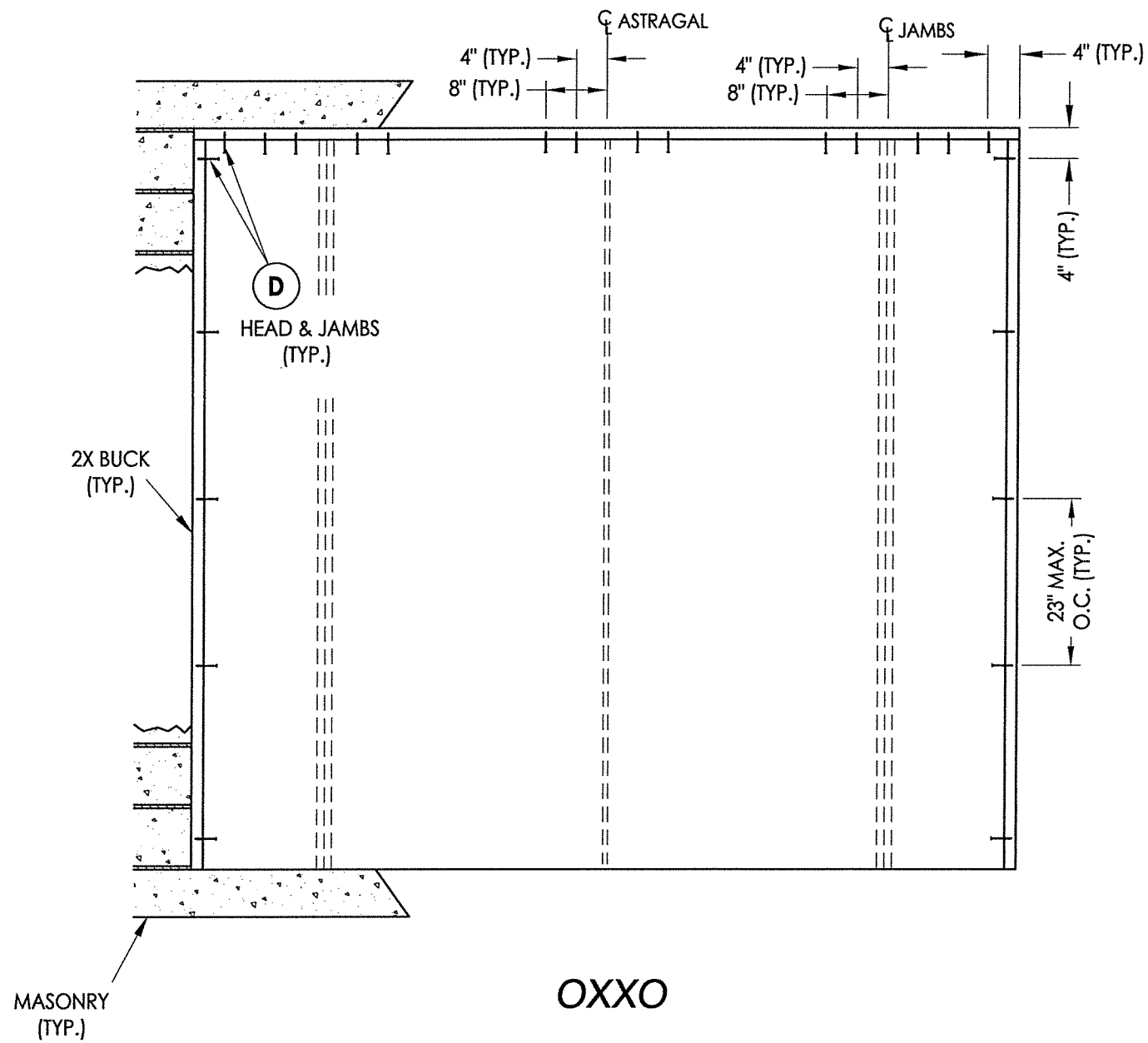


Professional Engineer
F. SCHMIDT
License No. 43409
STATE OF FLORIDA
Professional Engineer
July 21, 2020
Documents Prepared By
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	
DATE:		10/12/17	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21132.8	
SHEET		8	OF 13
NO.		DATE	REVISIONS
1		7/20/20	UPDATE TO 7th ED (2020) FBC
			LFS BY

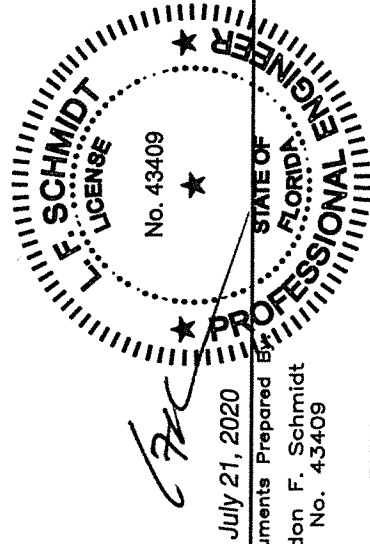


XX



2X BUCK ANCHORING

OXXO



July 21, 2020

Documents Prepared By

Lyndon F. Schm
P.E. No. 43409

Radco BUILDING CONSULTANTS, INC.

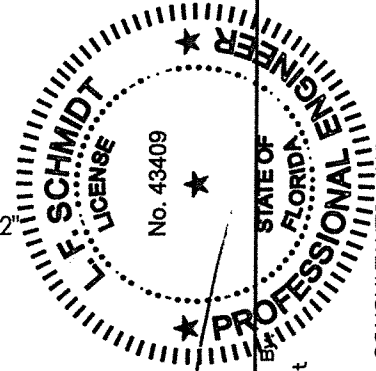
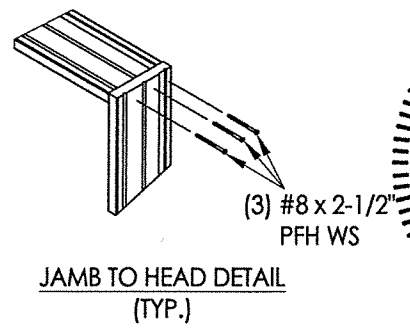
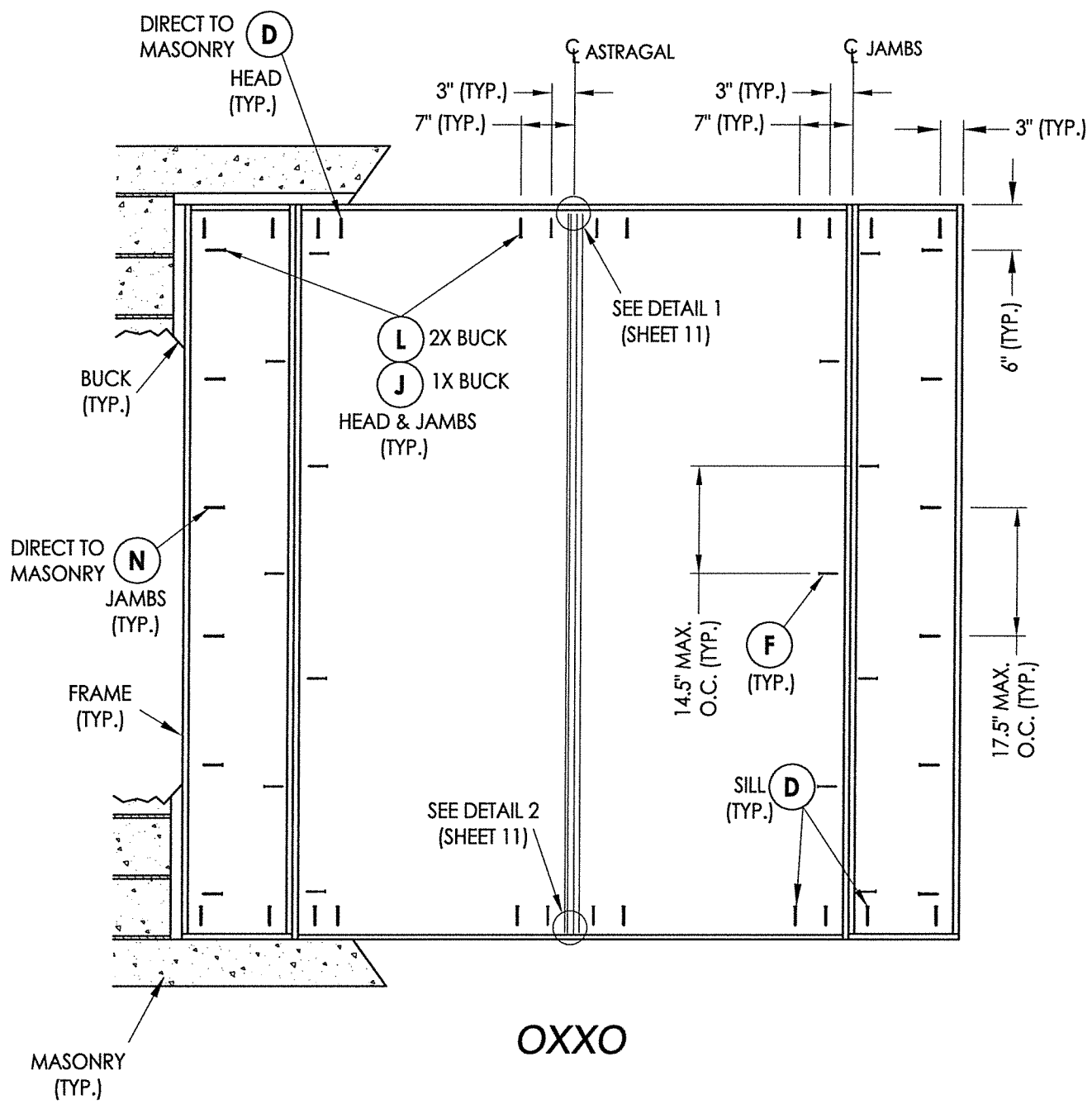
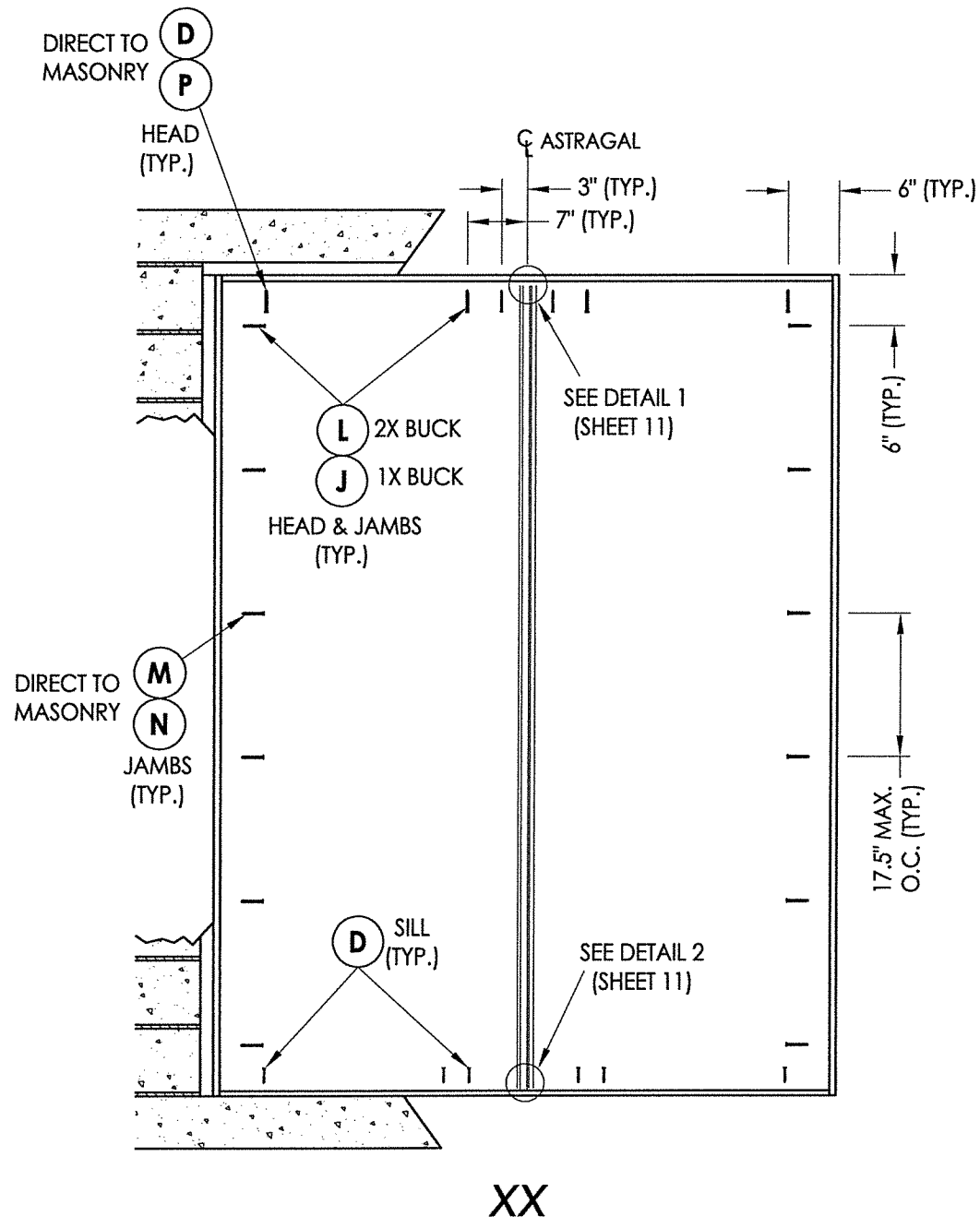
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9191
FBPF Registry No. 9813

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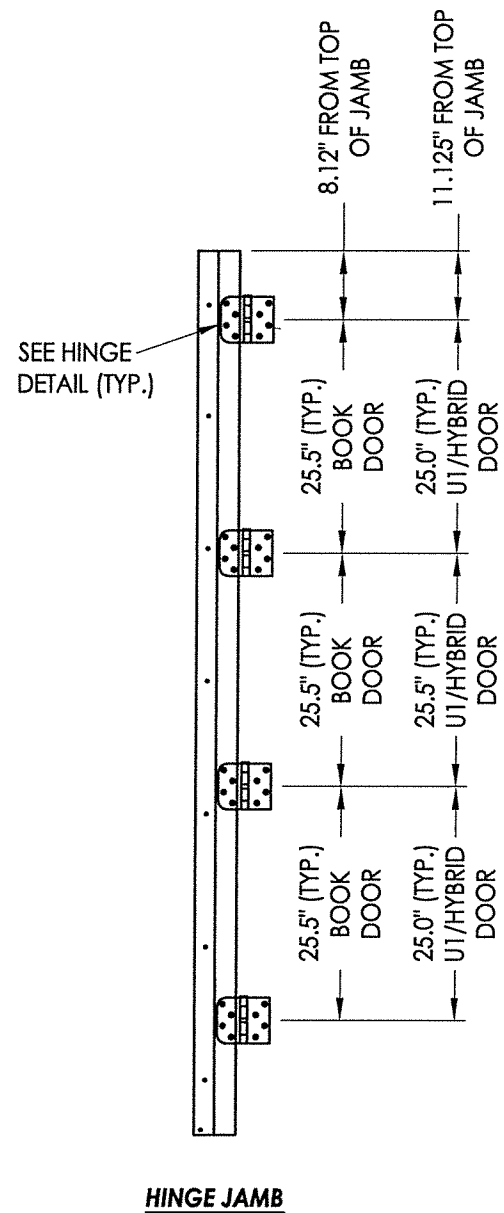
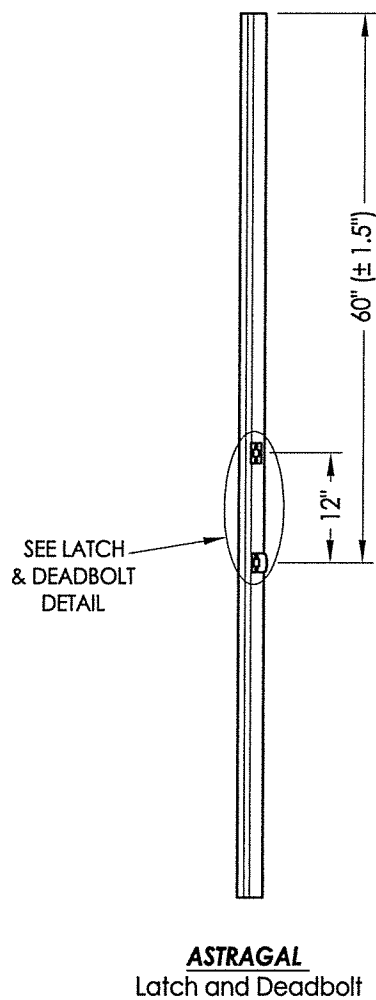
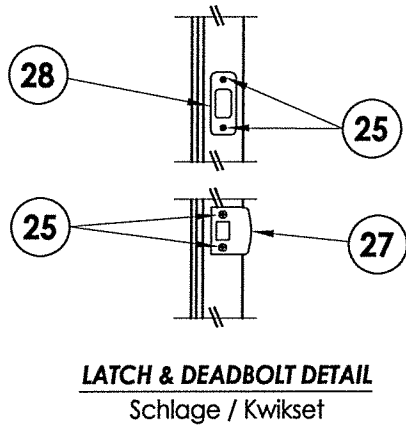
R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZC - Drawings\FL 21132 (2020)\FL-21132.6-8.dwg, 10.8



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:		FRAME ANCHORING	
NO.	DATE	REVISIONS	
		LFS	BY
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-21132.8			
SHEET 10 OF 13			

FRAME ANCHORING



15" FROM TOP
OF JAMB

[Signature]

July 21, 2020

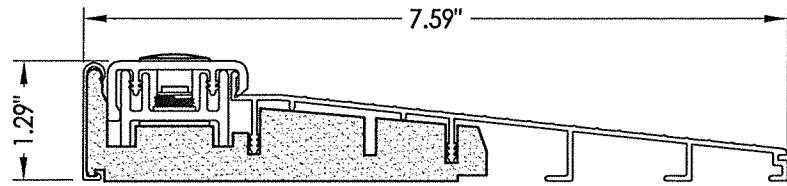
Documents Prepared By
Don F. Schmidt
No. 43409

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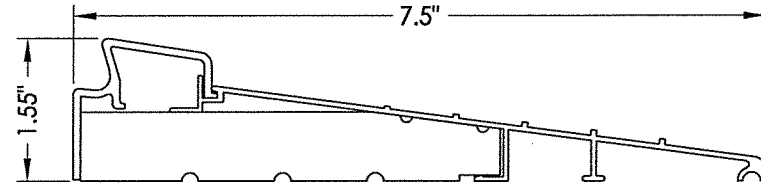
W
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 10/12/17		PRODUCT: THERMA-TRU STEEL DOOR	
SCALE: N.T.S.		PART OR ASSEMBLY: HARDWARE DETAILS	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.8			
SHEET 11 OF 13			

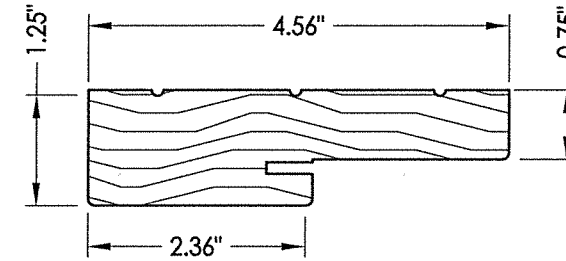
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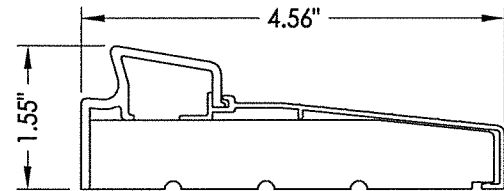
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



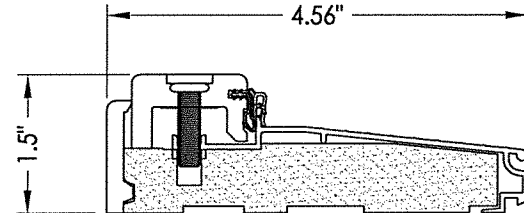
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



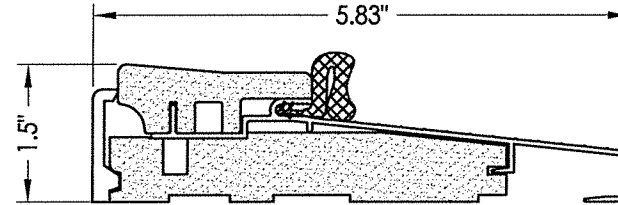
1 WOOD JAMB



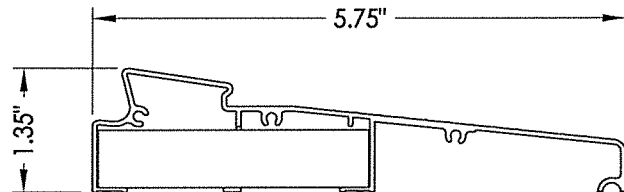
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



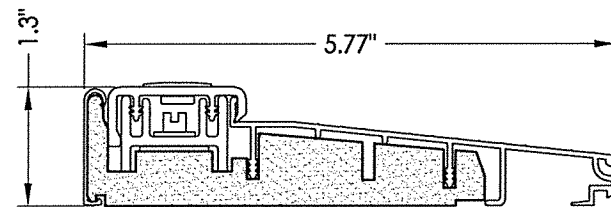
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



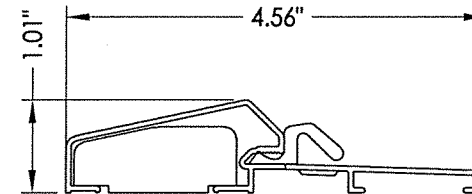
16 OUTSWING THRESHOLD
Composite Sill



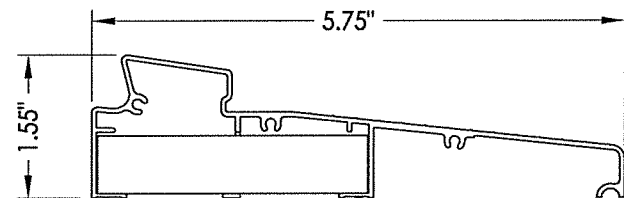
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



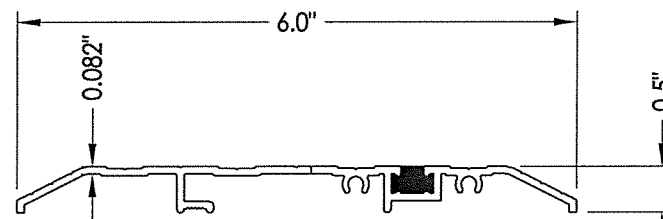
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



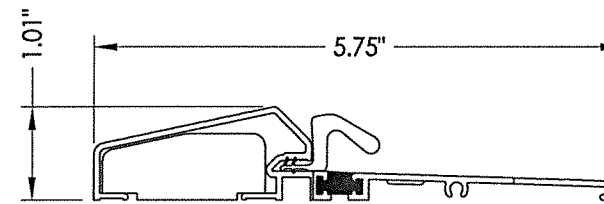
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



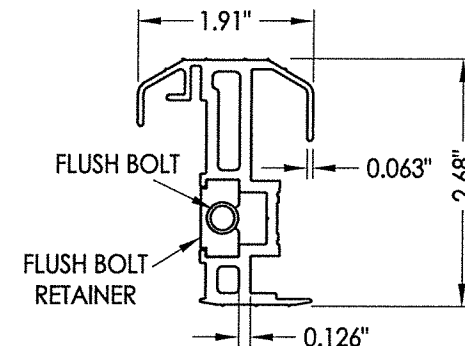
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



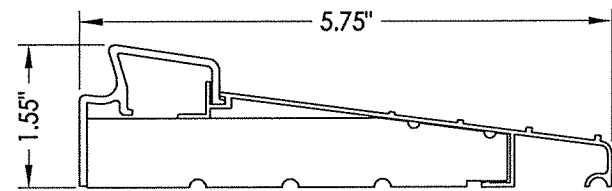
15 PUBLIC ACCESS THRESHOLD



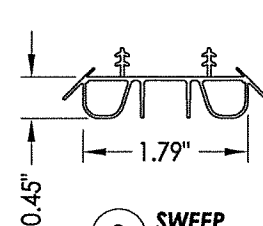
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



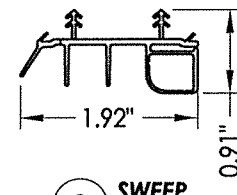
20 COASTAL ALUMINUM ASTRAGAL



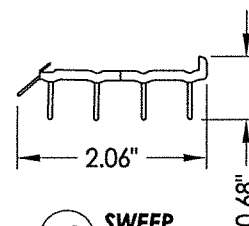
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



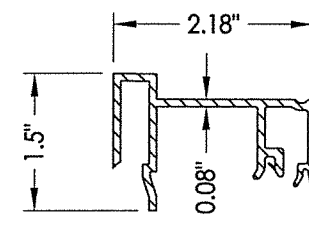
8 SWEEP



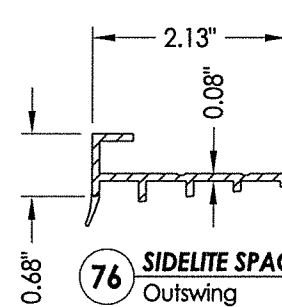
9 SWEEP



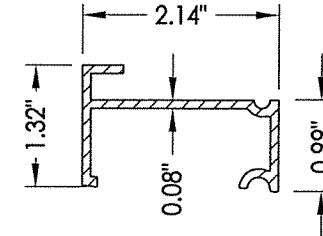
10 SWEEP



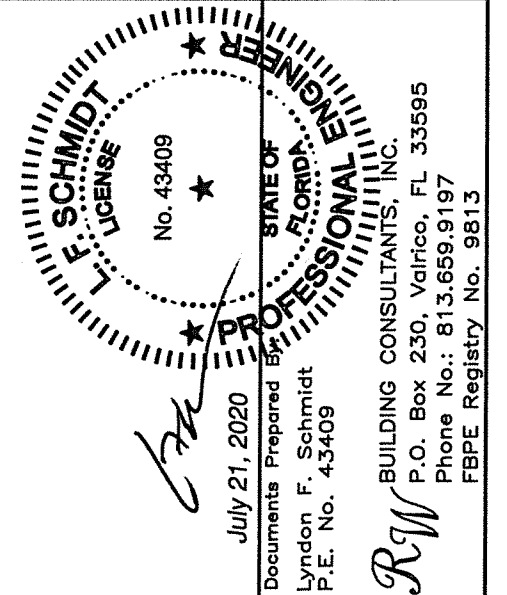
75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold



PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		COMPONENTS	
DATE		NO.	BY
10/12/17		1	LFS
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21132.8	
SHEET		12	OF 13

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	27	LATCH STRIKE PLATE	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	28	DEADBOLT STRIKE PLATE	STEEL
C	1/4" MAX. SHIM SPACE	-	29	4" X 4" HINGE	STEEL
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	33	INSWING THRESHOLD	ALUM/COMP
			34	INSWING THRESHOLD	ALUM/COMP
F	#10 X 2" PFH WOOD SCREW	STEEL	35	INSWING THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	36	INSWING THRESHOLD	ALUM/COMP
I	1/4" X 1-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	37	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	38	INSWING THRESHOLD	ALUM/COMP
K	#8 x 3" PFH WOOD SCREW	STEEL	39	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	40	DOOR PANEL (BOOK)	-
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	41	DOOR PANEL (HYBRID)	-
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	42	DOOR PANEL (U1)	-
P	1/4" X 2-3/4" PFH ELCO CONCRETE SCREW	STEEL	50	SIDELITE (FULL LITE)	-
Q	3/16" X 3-3/4" ITW CONCRETE SCREW	STEEL	75	SIDELITE SPACER (INSWING)	PVC
1	JAMB (FINGER JOINT PINE)	WOOD	76	SIDELITE SPACER (OUTSWING)	PVC
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
7	WEATHERSTRIP (LONG REACH)	FOAM	80	COASTAL ASTRAGAL STRIKE PLATE	STEEL
8	SWEEP	VINYL			
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL			
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL			
11	#10 X 1-3/4" PFH WOOD SCREW	STEEL			
15	PUBLIC ACCESS THRESHOLD	ALUM			
16	OUTSWING THRESHOLD	ALUM/COMP			
17	OUTSWING THRESHOLD	ALUM/COMP			
18	OUTSWING THRESHOLD	ALUM/COMP			
20	COASTAL ALUMINUM ASTRAGAL	ALUM			
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			
26	#8 x 5/8" PFH WOOD SCREW	STEEL			

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" may be required to ensure the "MAX. ON CENTER" dimension is maintained.

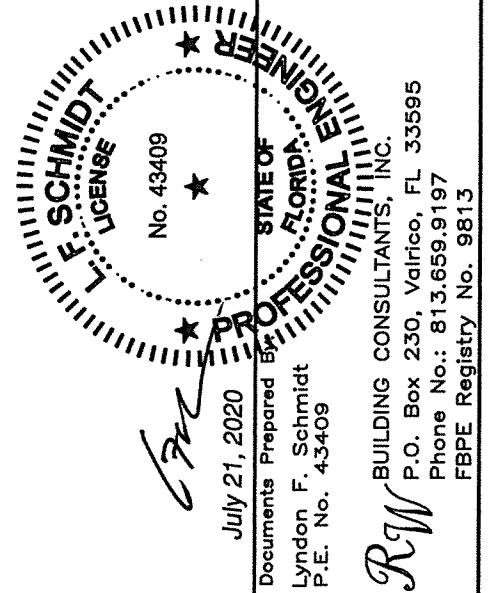
CONCRETE ANCHOR NOTES:

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.



DATE: 10/12/17		PRODUCT: THERMA-TRU STEEL DOOR	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.8			
SHEET 13 OF 13		PART OR ASSEMBLY: BILL OF MATERIALS	
NO. 1 7/20/20 UPDATE TO 7th ED (2020) FBC LFS			
NO. DATE BY			
REVISIONS			
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