

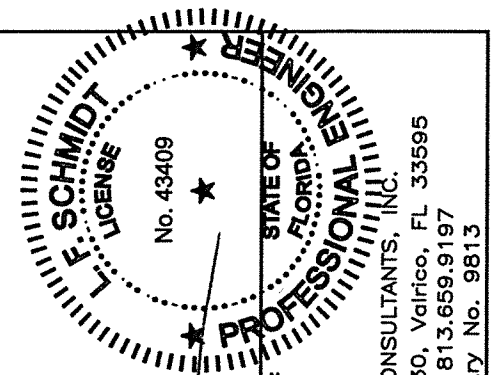
Diagram illustrating the vertical cross section of a door assembly, showing internal components and dimensions:

- TOP RAIL (WOOD)**: The uppermost section, with a height dimension of **1.68"**.
- FOAM CORE**: The insulating core material, with a height dimension of **0.88"**.
- G1**: A label pointing to the vertical door skin or frame section.
- INTERIOR** and **EXTERIOR**: Labels indicating the orientation of the door.
- STEEL DOOR SKIN**: The outer layer of the door, with a height dimension of **0.83"**.
- BOTTOM RAIL (COMP.)**: The lowermost section, which is a composite material.

2 **VERTICAL CROSS SECTION** **2**

2 VERTICAL CROSS SECTION

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



July 21, 2020

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:
"TRADITIONS"
DOOR PANEL DETAILS

[illegible]

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

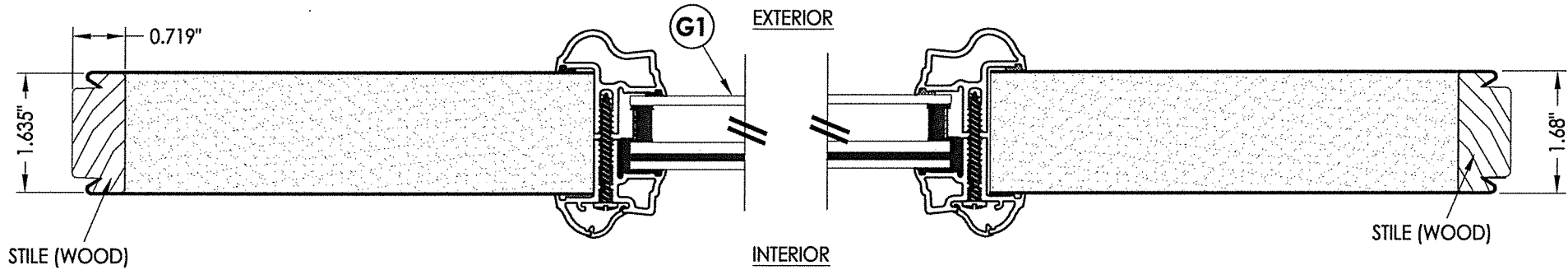
CHK. BY: LFS

DRAWING NO.:

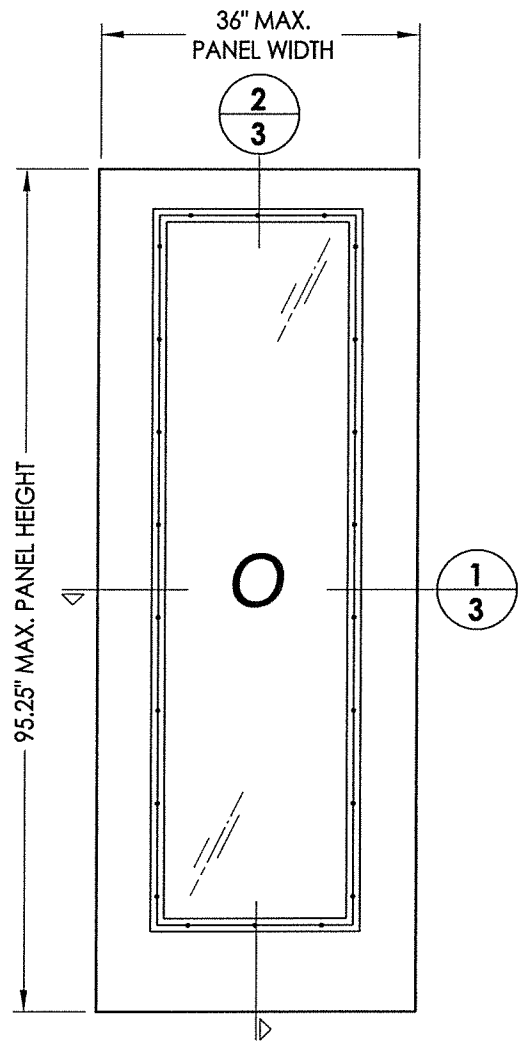
FL-21132.13

SHEET 2 OF 14

R:\Clients\Therma Tru PERMANENT\VA - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.12-14.dwg, 3.7

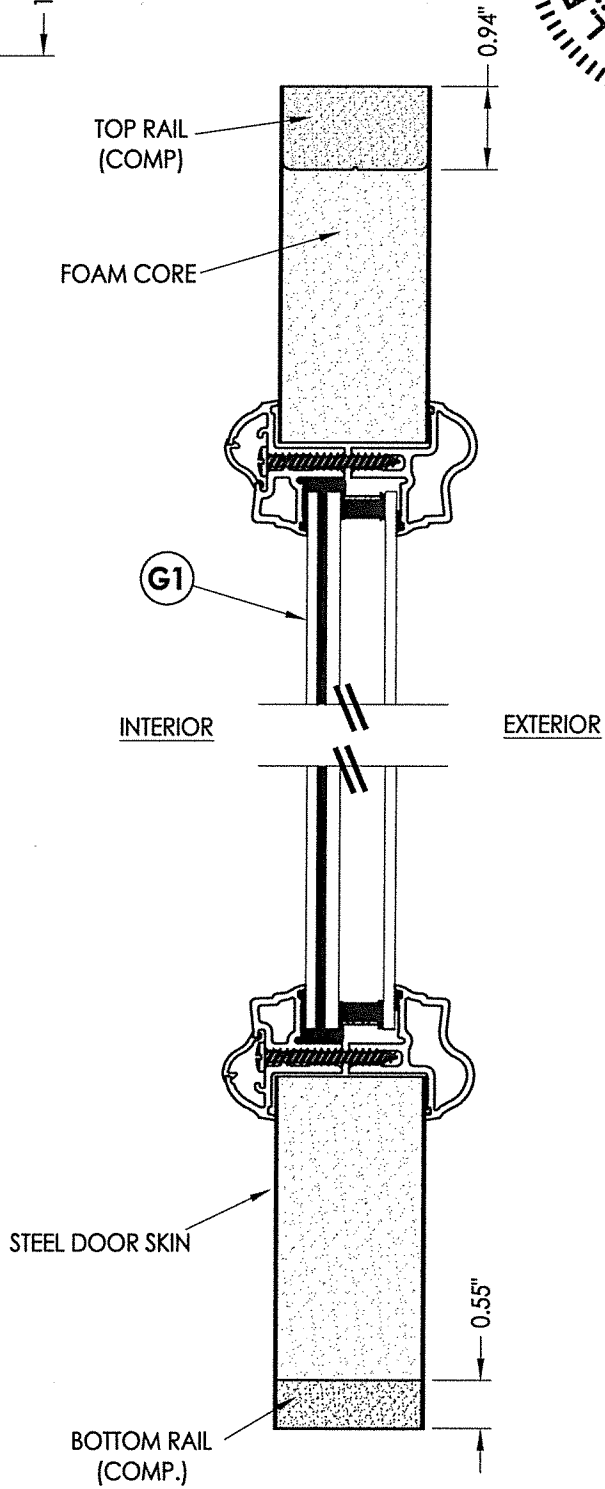


1
3 HORIZONTAL CROSS SECTION



50 SIDELITE PANEL

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



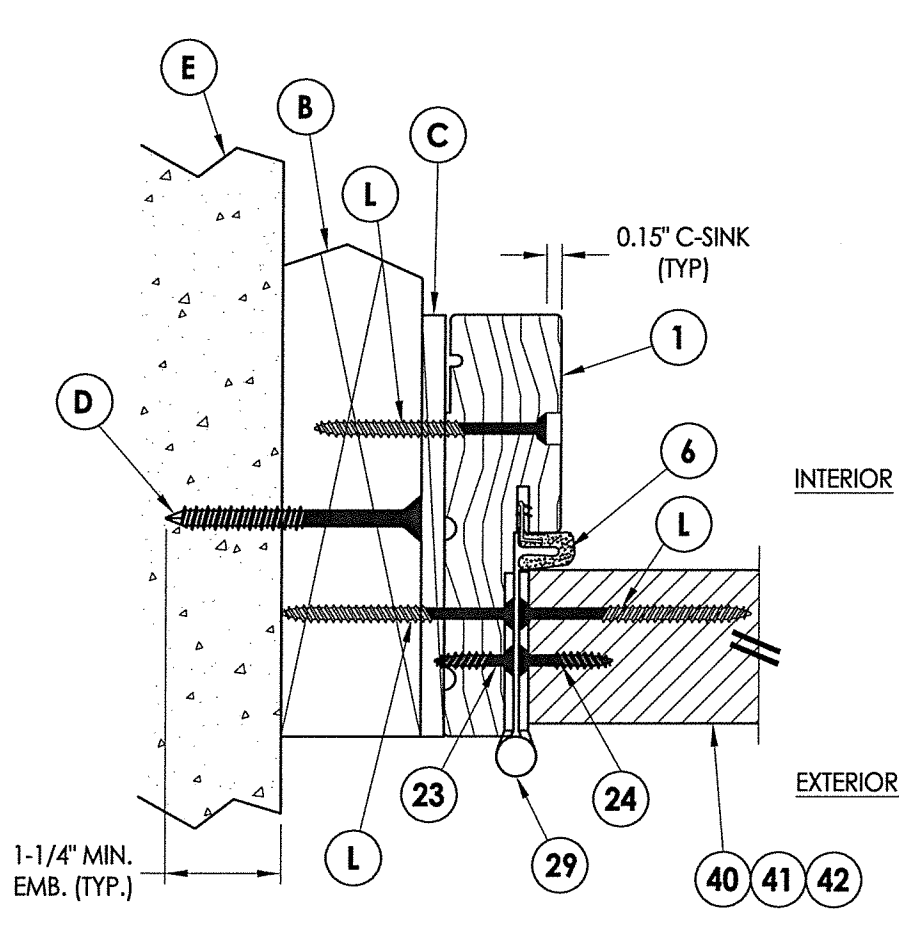
2
3 VERTICAL CROSS SECTION

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

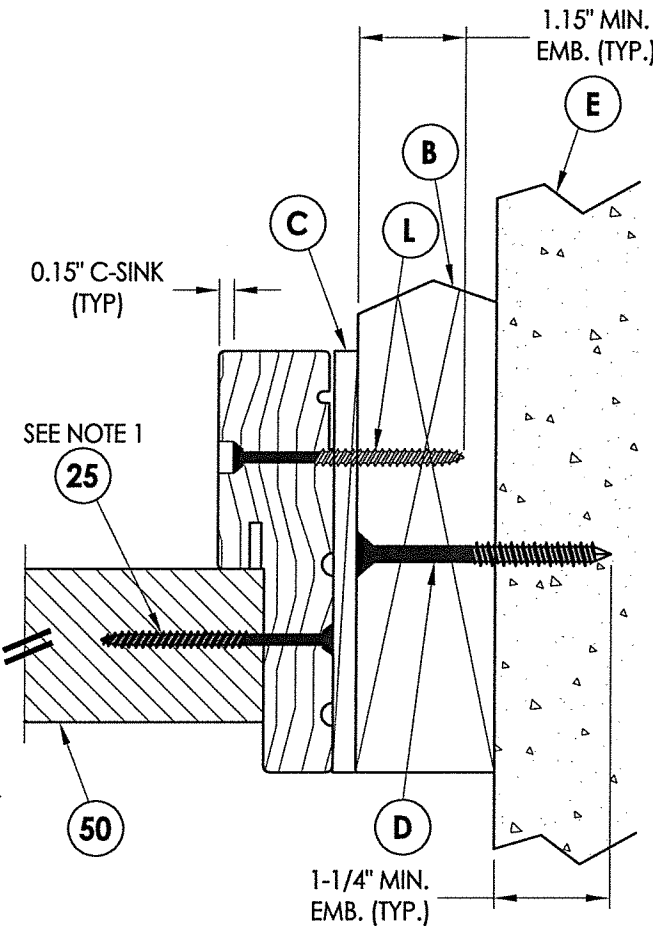
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

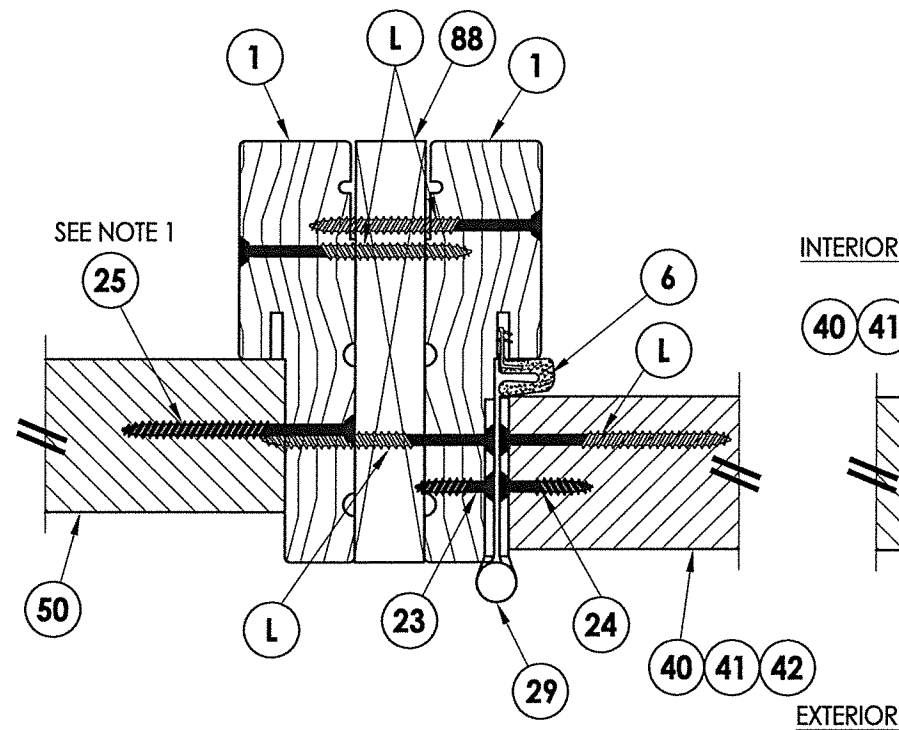
PRODUCT:	THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:	SIDELITE PANEL DETAILS	
NO.	DATE	REVISIONS
1	7/20/20	UPDATE TO 7th ED (2020) FBC
		LFS
		BY
DATE: 10/12/17		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: FL-21132.13		
SHEET 3 OF 14		



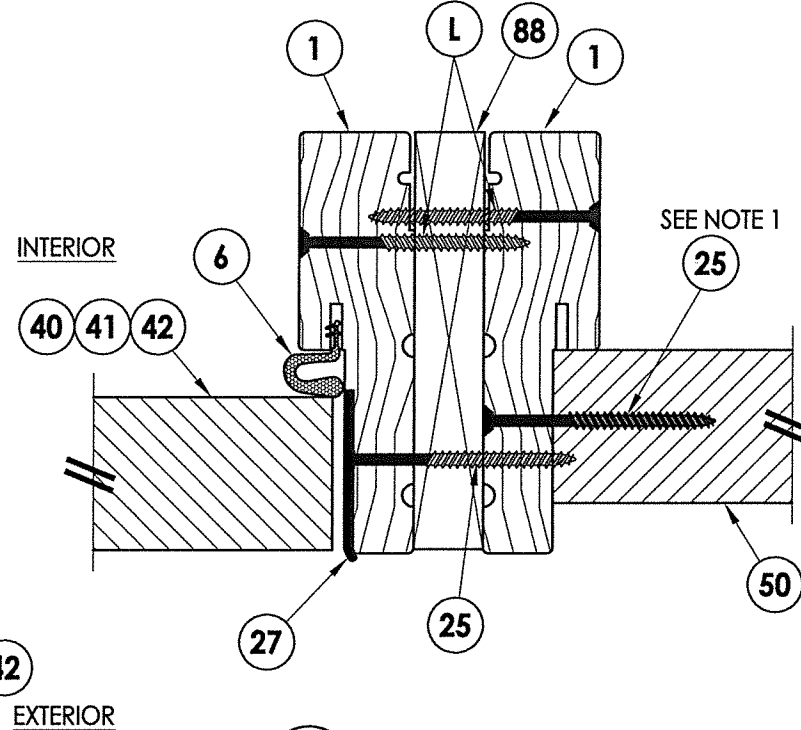
1 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



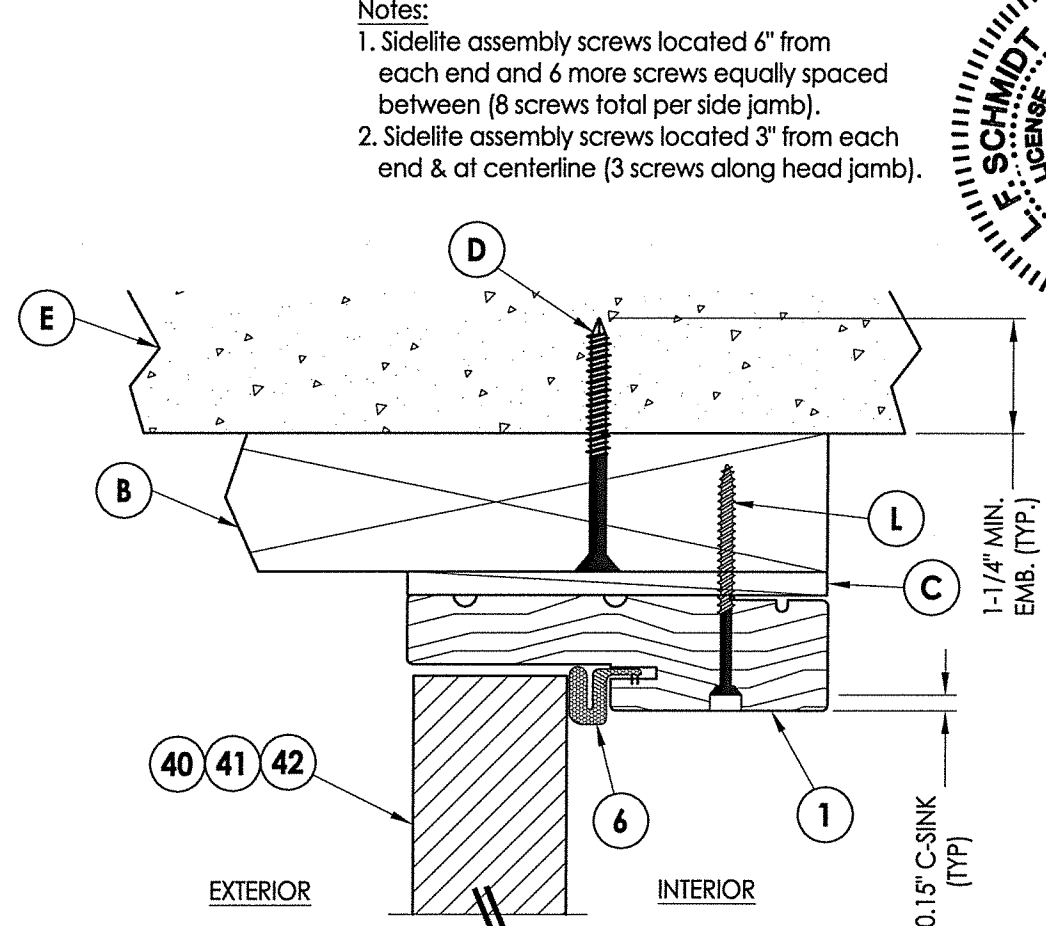
2 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



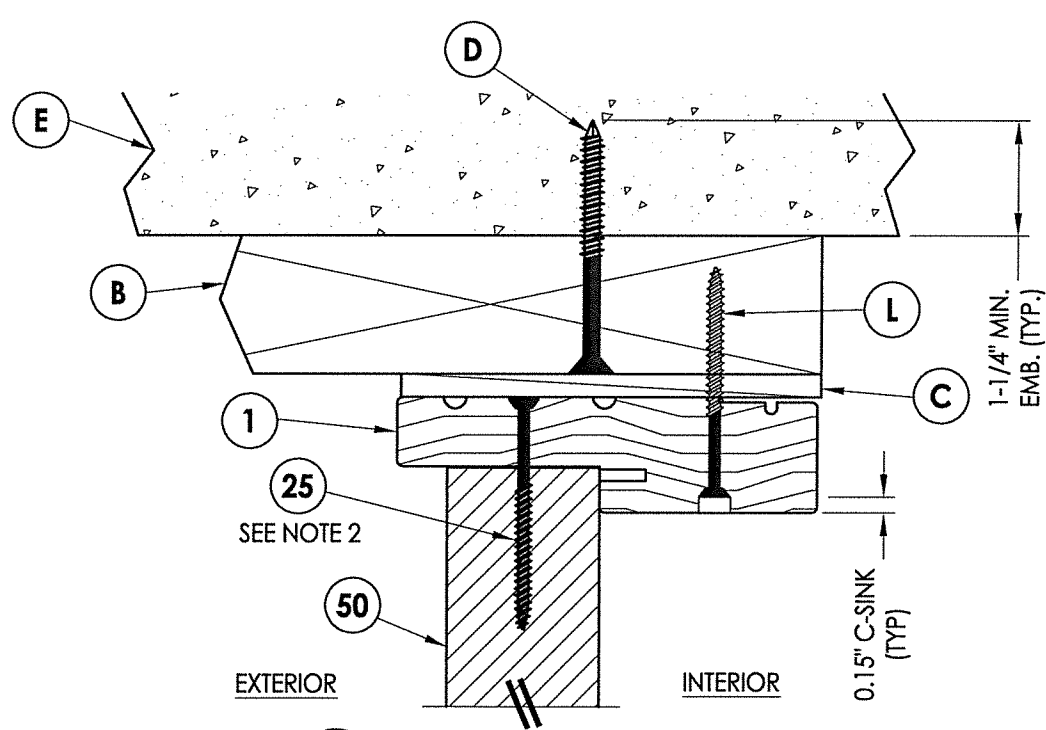
5 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



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

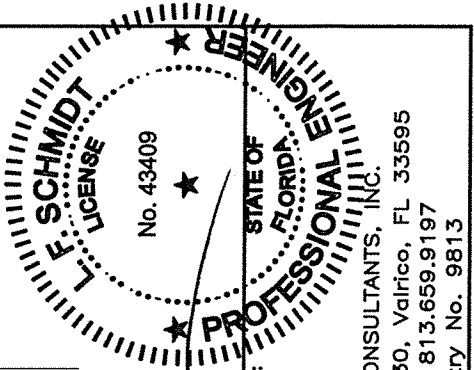


3 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)



4 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)

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



July 21, 2020

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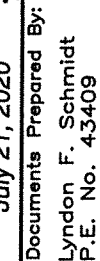
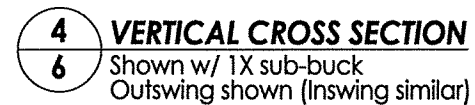
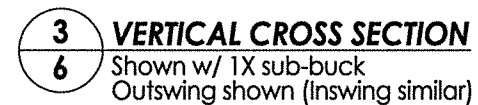
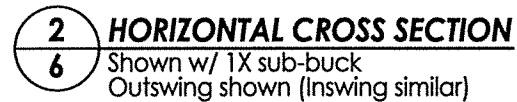
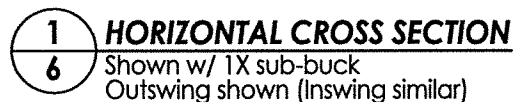
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

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

DATE: 10/12/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21132.13
SHEET 5 OF 14

1. Sidelite assembly screws located 6" from each end and 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



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

[illegible]

Technical drawing of a window frame cross-section. The drawing shows the exterior (left) and interior (right) views. Key components and labels include:

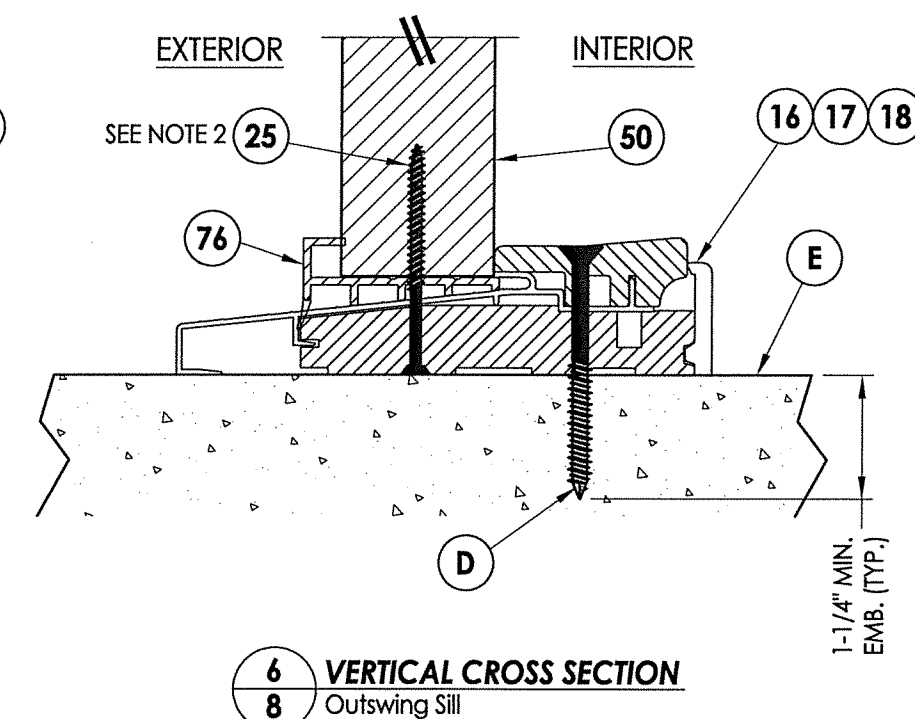
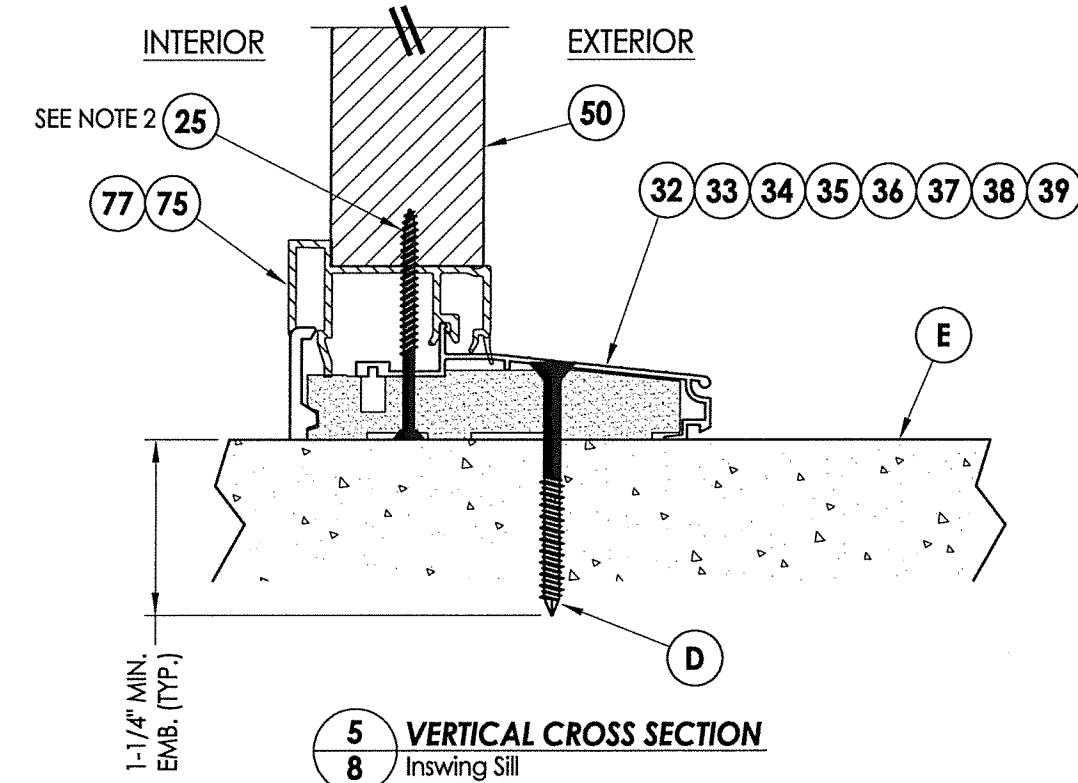
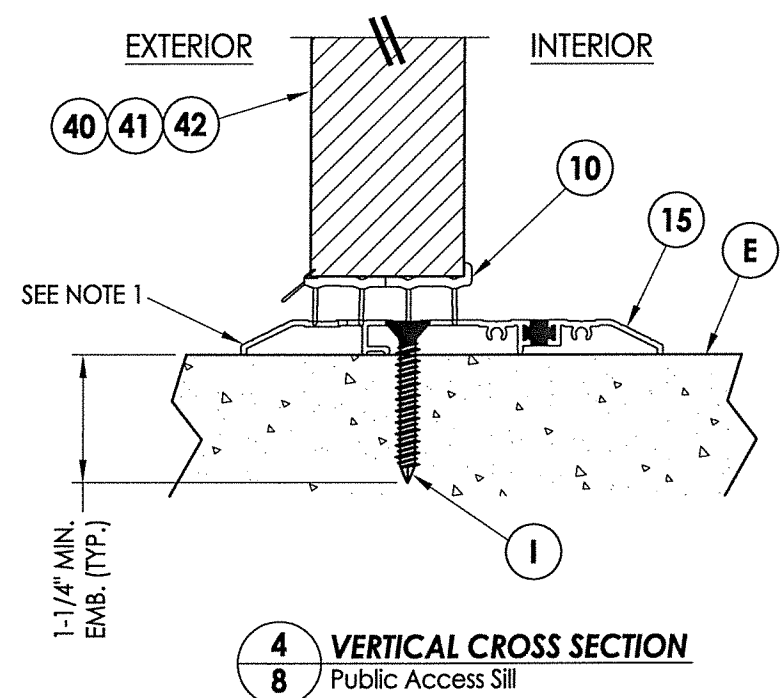
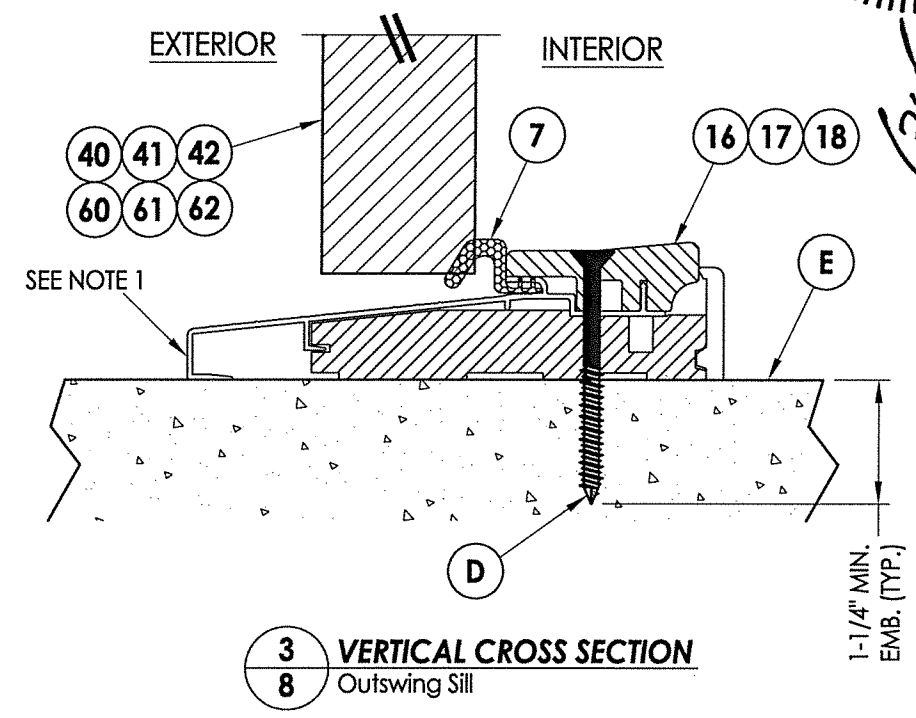
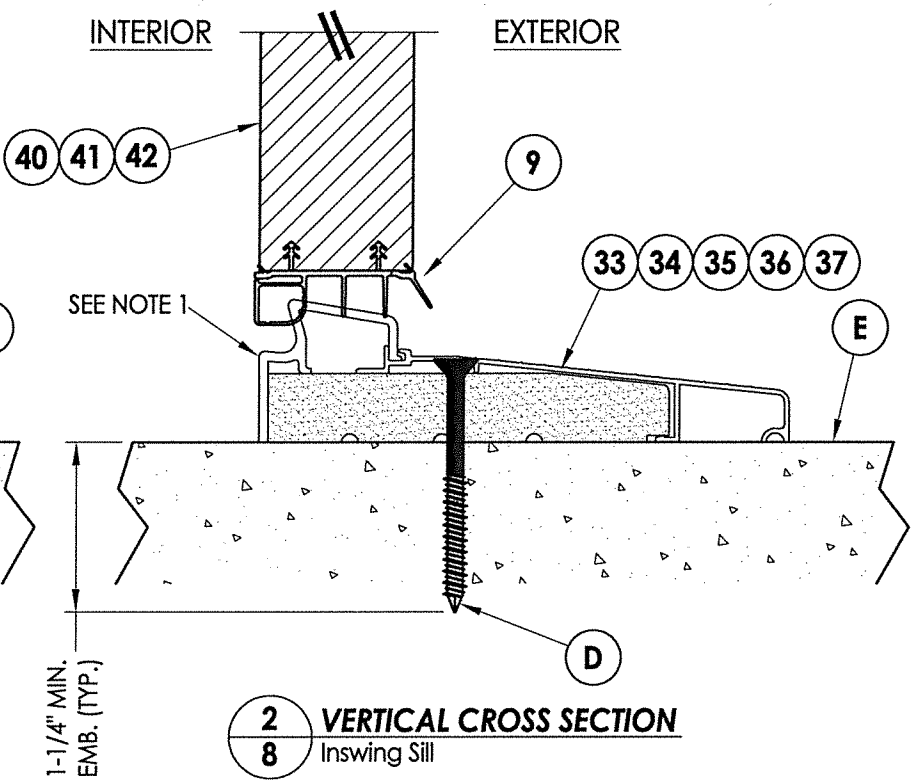
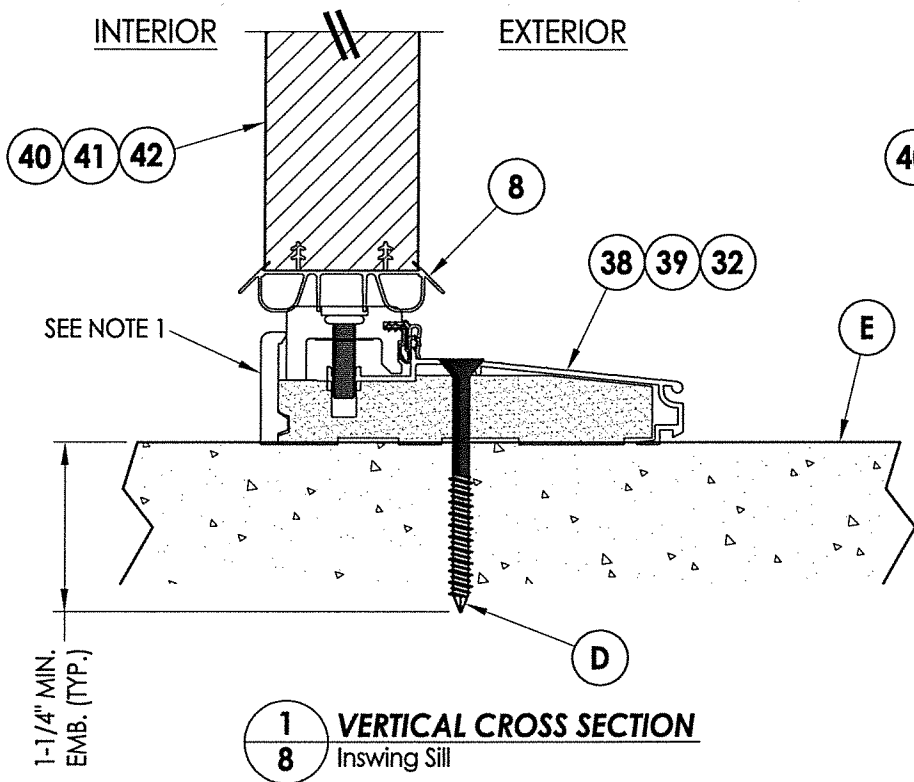
- 1**: Window frame material.
- 25**: Insulation material.
- 50**: Exterior cladding material.
- C**: Weatherstripping or sealant.
- D**: Drainage channel or weep hole.
- E**: Exterior finish or coating.

Dimensions and notes:

- 1-1/4" MIN. EMB. (TYP.)
- 2" MIN.
- 1.5" MAX.
- SEE NOTE 2
- EXTERIOR
- INTERIOR

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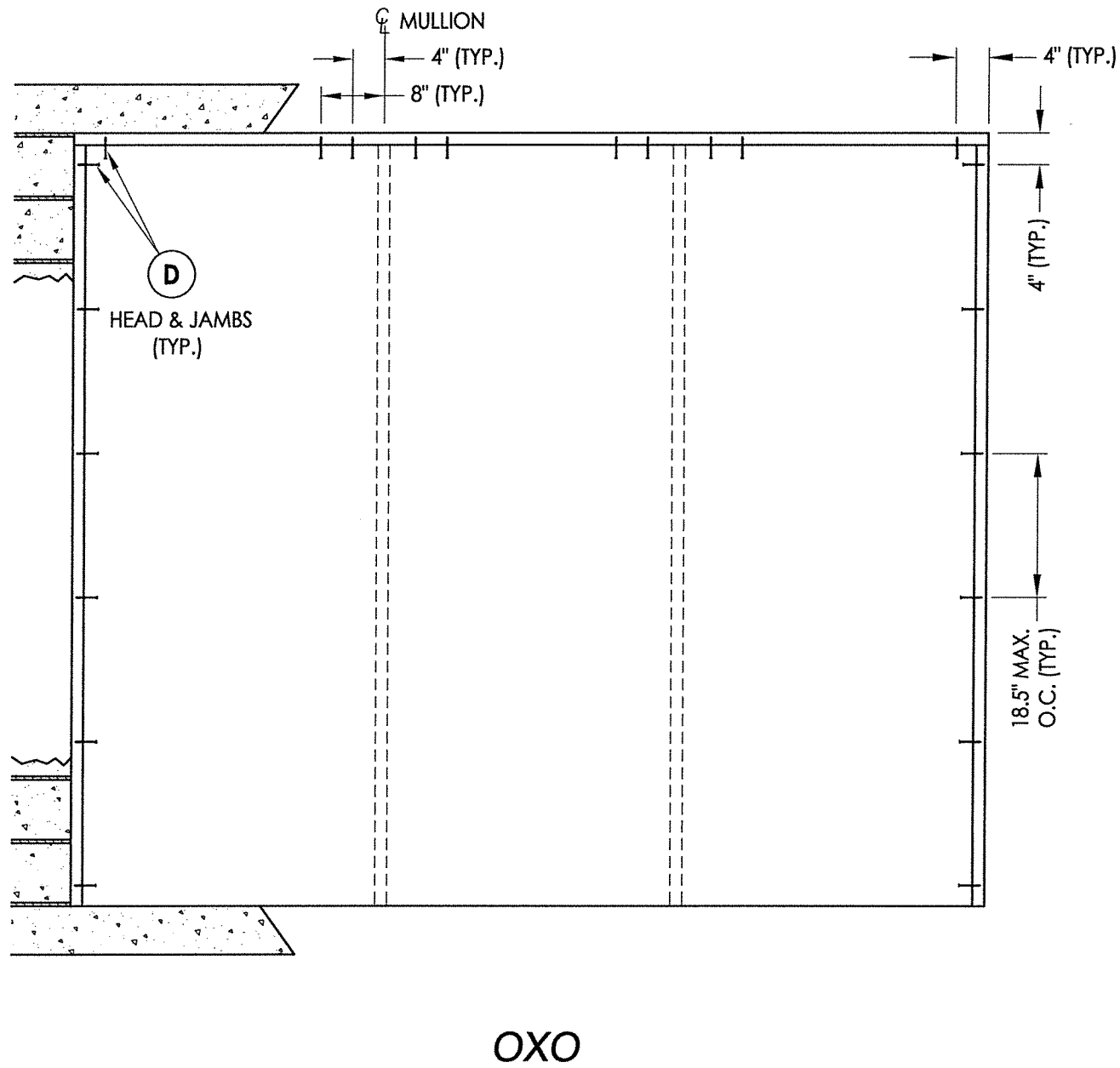
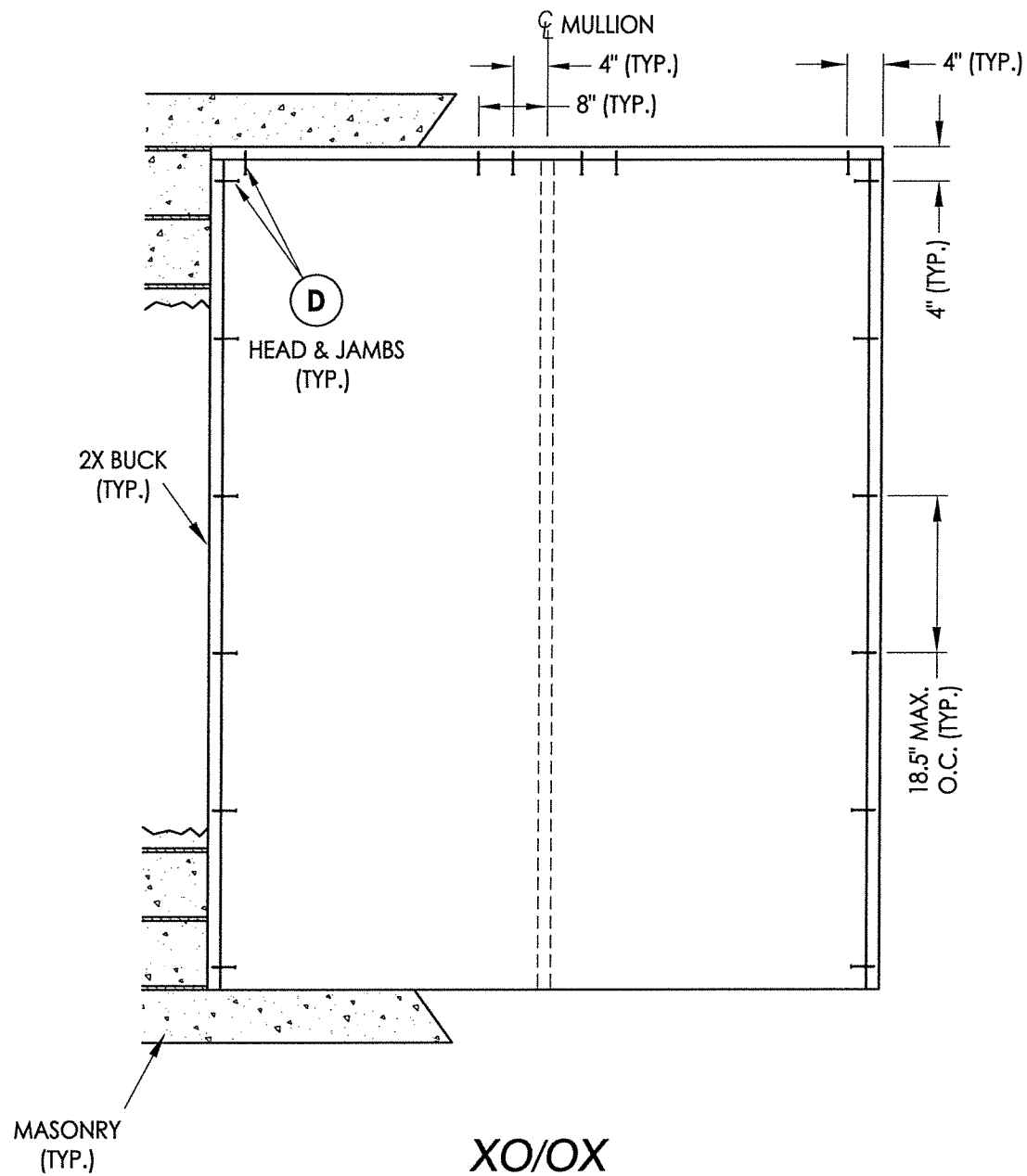
- Notes:
- Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
 - Sidelife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



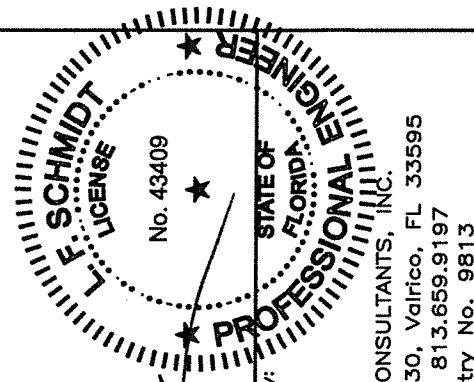
Professional Engineer
F. SCHMIDT
License No. 43409
STATE OF FLORIDA
Professional Engineer
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	
DATE:		10/12/17	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21132.13	
SHEET		8 OF 14	
NO.		1	7/20/20
DATE		UPDATE TO 7th ED (2020)	FBC
BY		LFS	BY
REVISIONS			

R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.12-14.dwg, 9.7



2X BUCK ANCHORING



July 21, 2020
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FBPE Registry No. 9813

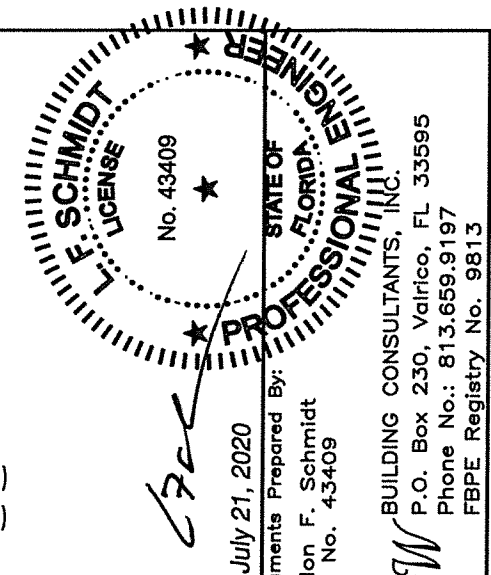
PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		BUCK ANCHORING	
DATE		7/20/20	
NO.		1	
BY		LFS	
REVISIONS		UPDATE TO 7th ED (2020) FBC	
DATE		7/20/20	
NO.		1	
BY		LFS	
DATE		10/12/17	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21132.13	
SHEET		9 OF 14	

Diagram illustrating the elevation of a window assembly, showing three panes separated by mullions. The assembly is labeled with various components and dimensions:

- Top Left:** DIRECT TO MASONRY (D) HEAD (TYP.)
- Top Right:** (TYP.)
- Top Center:** 4" (TYP.), 8" (TYP.), C MULLION
- Top Right Dimensions:** 3" (TYP.), 7" (TYP.)
- Left Side:** DIRECT TO MASONRY (N) JAMBS (TYP.)
- Left Side Dimensions:** 6" (TYP.), 14.5" MAX. O.C. (TYP.)
- Internal Labels:**
 - L 2X BUCK
 - J 1X BUCK
 - HEAD & JAMBS (TYP.)
 - L THRU MULLION (TYP.)
 - D SILL (TYP.)
 - I

(3) #8 x 2-1/2"
PFH WS

JAMB TO HEAD DETAIL
(TYP.)



July 21, 2020

Documents Prepared By:
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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:
FRAME ANCHORING

[illegible]

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

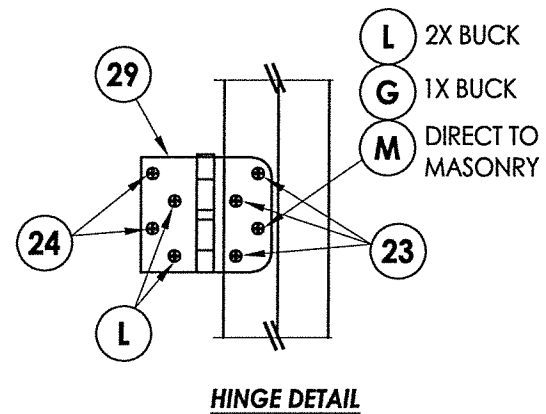
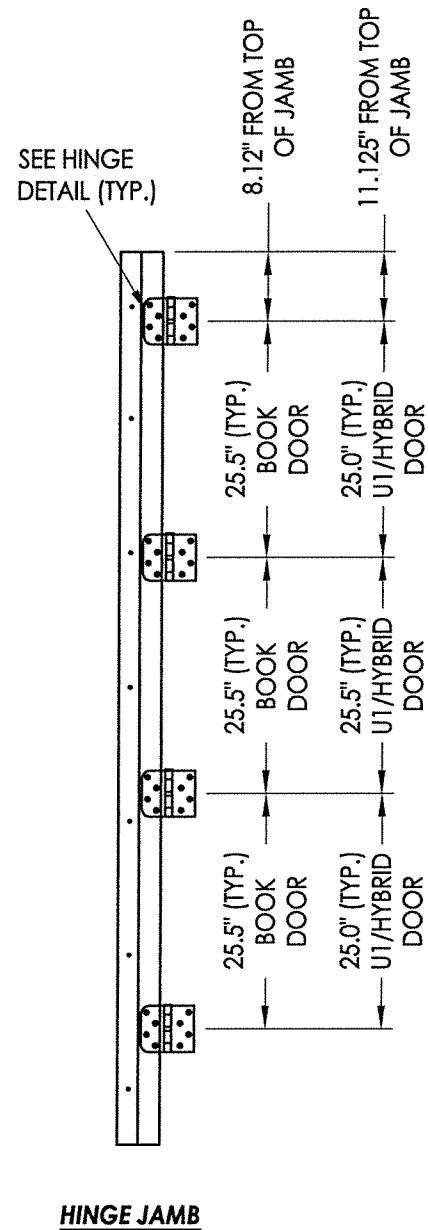
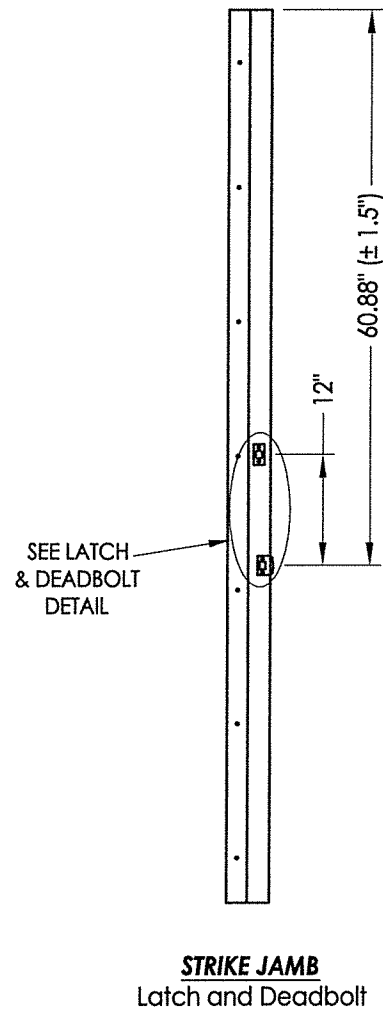
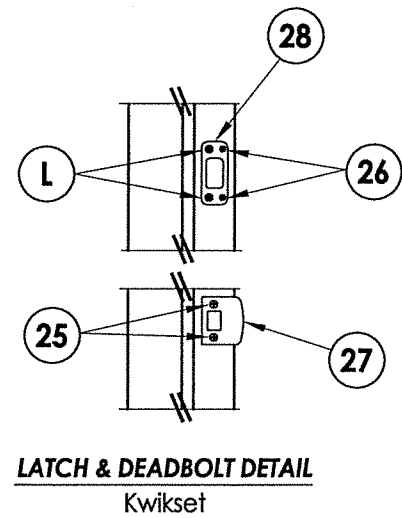
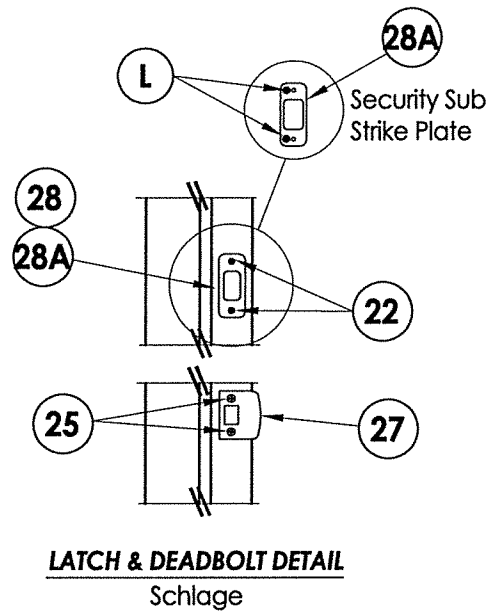
DRAWING NO.:

FL-21132.13

SHEET 10 OF 14

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LATCH & DEADBOLT STRIKE DETAILS

[illegible]

PRODUCT:

THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:

HARDWARE DETAILS

July 21, 2020
ments Prepared By:

July 21, 2020

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

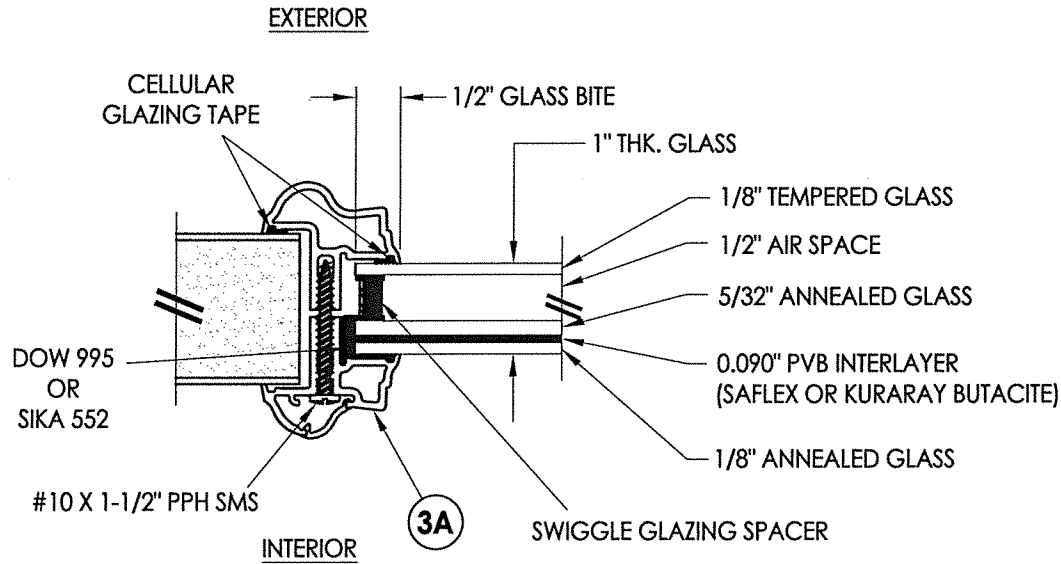
Reynolds Building Consultants, Inc.

P.O. Box 230, Valrico, FL 33595

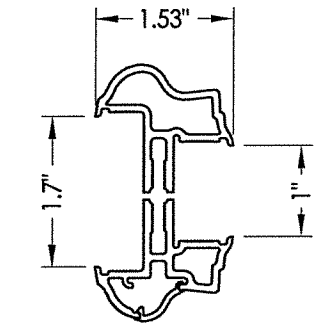
Phone No.: 813.659.9197

FBPE Registry No. 9813

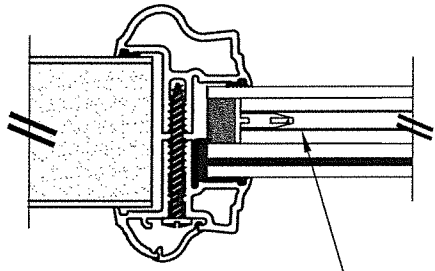
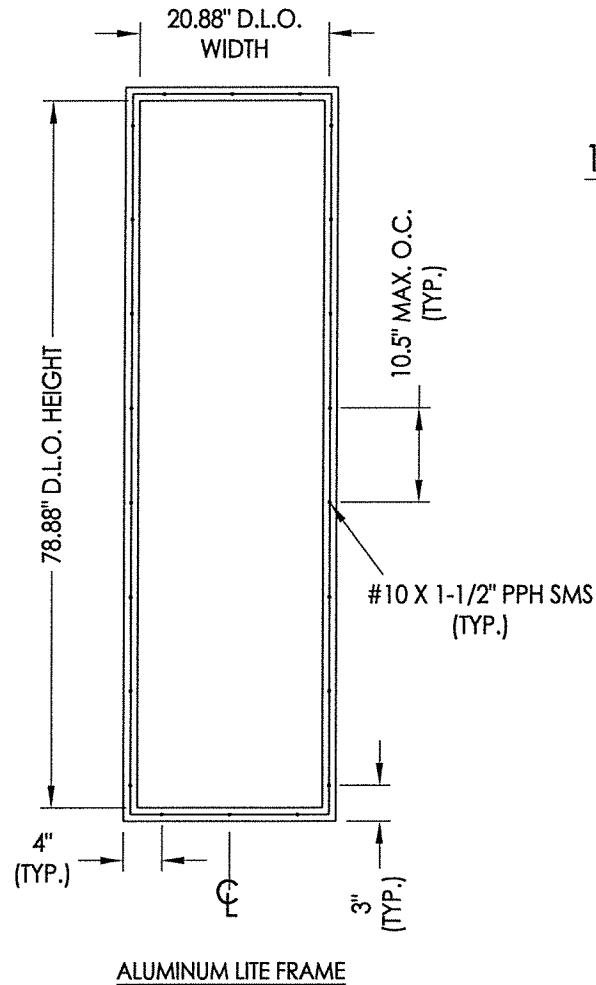
R:\Clients\Therma Tru PERMANENT\VA - Florida Product Approvals\FL-21132 Steel Wood Edge Impact Non-HVHZ\C - Drawings\FL 21132 (2020)\FL-21132.12-14.dwg, 12.7



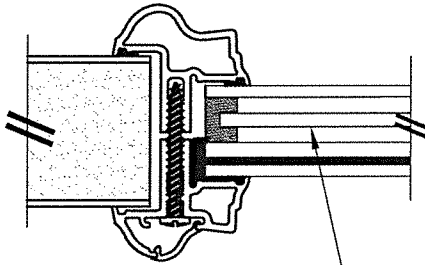
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



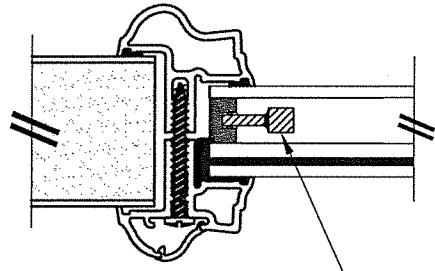
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



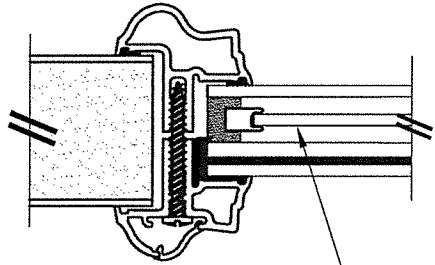
INTERNAL GRID (GBG)



PRIVACY INSERT

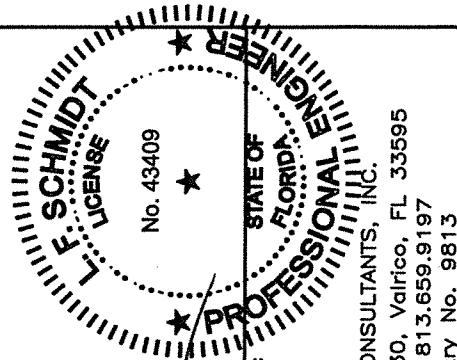


WROUGHT IRON INSERT



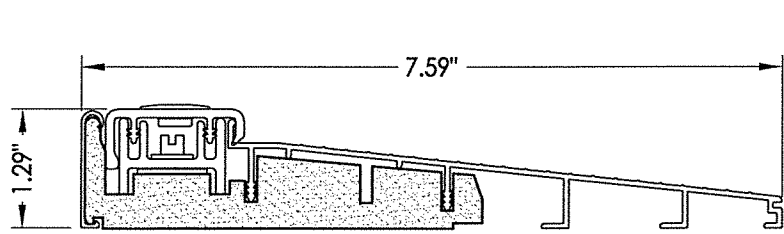
DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

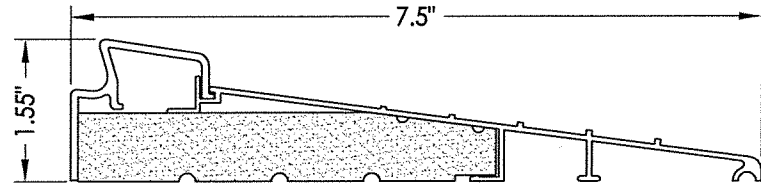


July 21, 2020
Documents Prepared By:
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FBPE Registry No. 9813

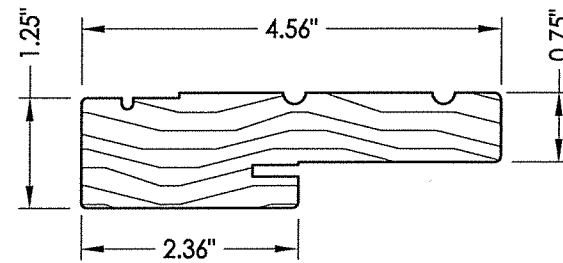
PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		GLAZING DETAILS	
REVISIONS		NO.	DATE
		1	7/20/20
		UPDATE TO 7th ED (2020)	FBC
		LFS	BY
DATE:		8/02/16	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21132.13	
SHEET		12	OF 14



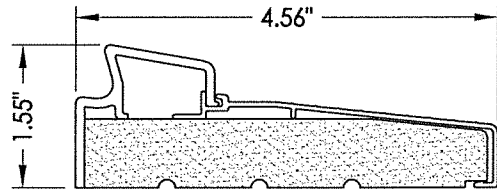
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



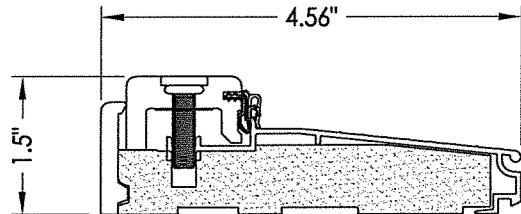
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



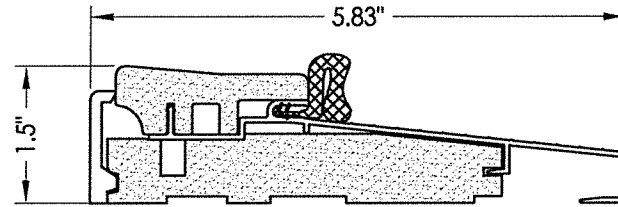
1 WOOD JAMB



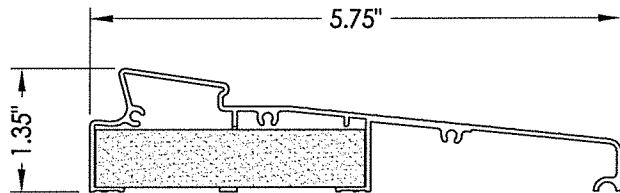
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



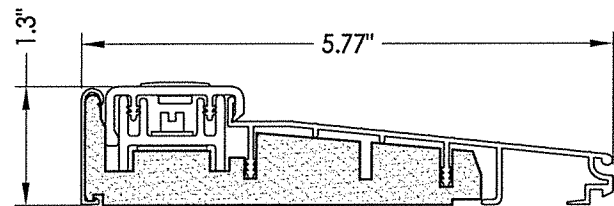
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



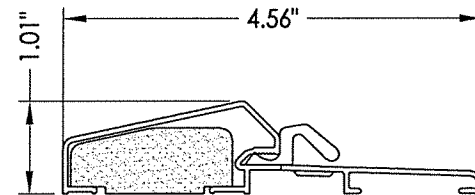
16 OUTSWING THRESHOLD
Composite Sill



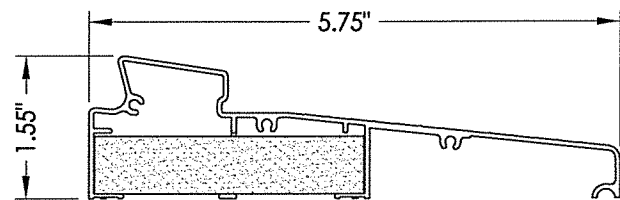
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



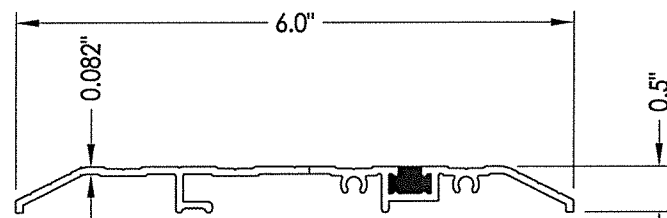
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



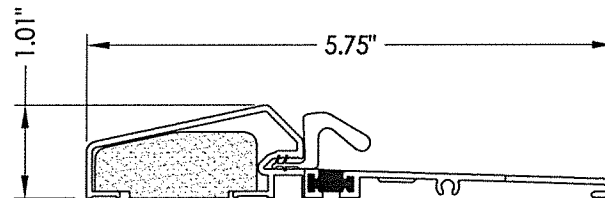
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



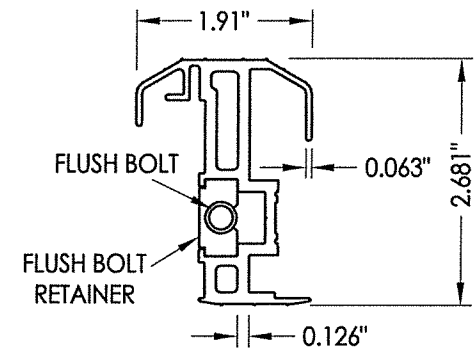
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



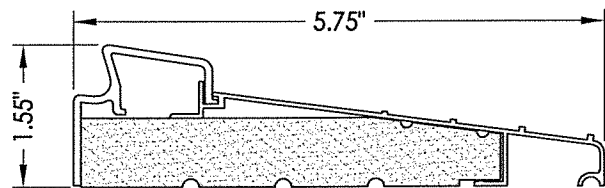
15 PUBLIC ACCESS THRESHOLD



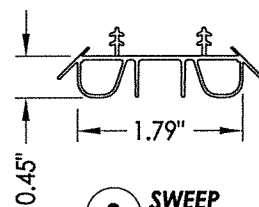
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



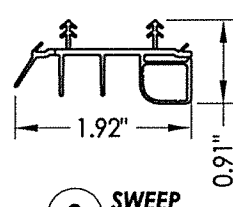
20 COASTAL ALUMINUM ASTRAGAL



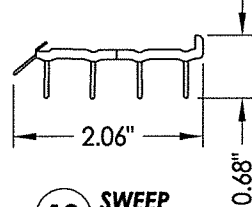
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



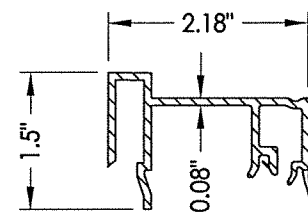
8 SWEEP



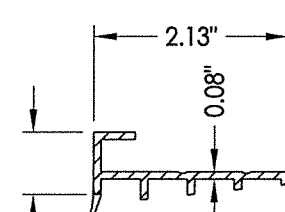
9 SWEEP



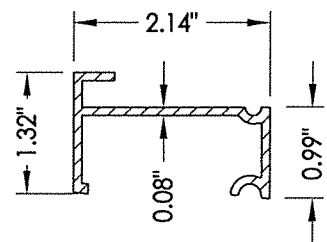
10 SWEEP



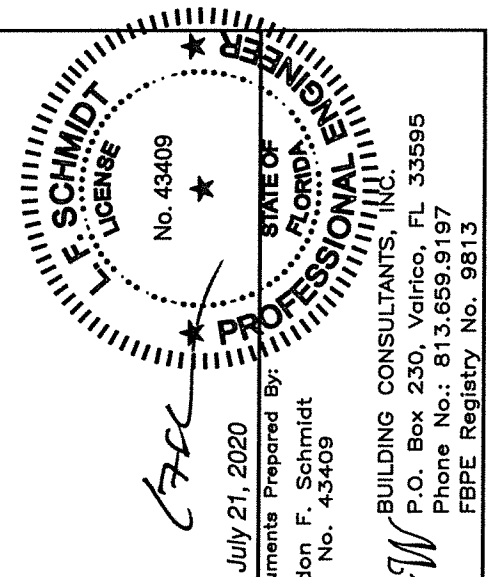
75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold



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

July 21, 2020

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

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

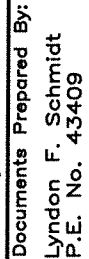
DATE:	10/12/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21132.13
SHEET	13 of 14

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	STEEL
28A	DEADBOLT SUB STRIKE PLATE	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)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE (FULL LITE)	-
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC
77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
88	1X MULLION (SG >= 0.55)	WOOD

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.



BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS	
1	7/20/20	UPDATE TO 7th ED (2020)	FBC
NO.	DATE		BY
		REVISIONS	
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.13			
SHEET 14 OF 14			