

THERMA TRU[®]
DOORS

Profiles™ & Traditions

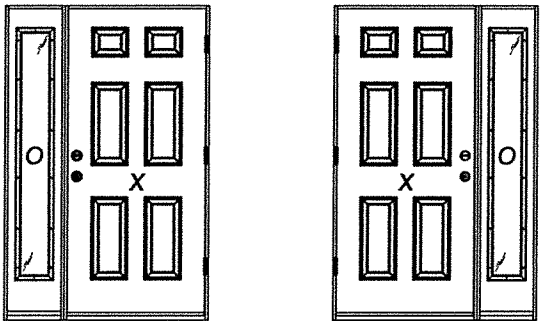
WOOD EDGE
"IMPACT" OPAQUE STEEL SINGLE DOOR
w/ "NON-IMPACT" SIDELITE(S)
INSWING/OUTSWING

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including 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 the "HVHZ", the opaque door complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering. The non-impact sidelite must be protected with an impact resistant covering complying with Section 1626 of the FBC.
4. When used in areas outside of the "HVHZ" 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.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using Sill numbers 16,17,18 & 31 meet the water infiltration requirements for the "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
8. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.

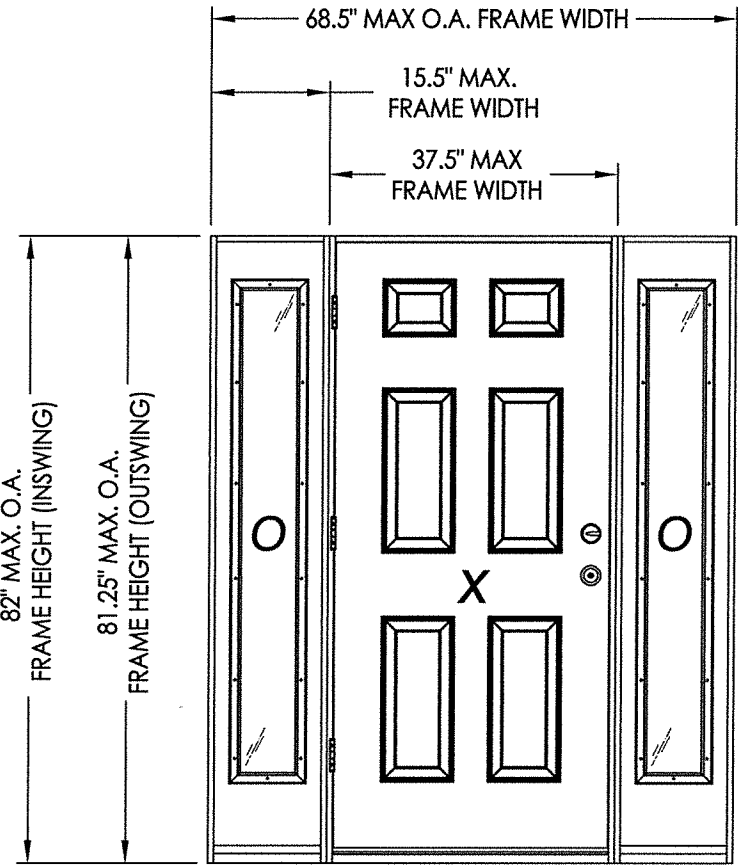
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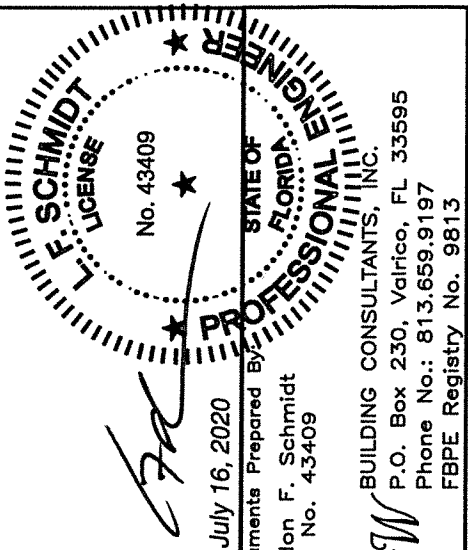
OX

XO



OXO

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+60.0	-60.0	+60.0	-60.0



July 16, 2020

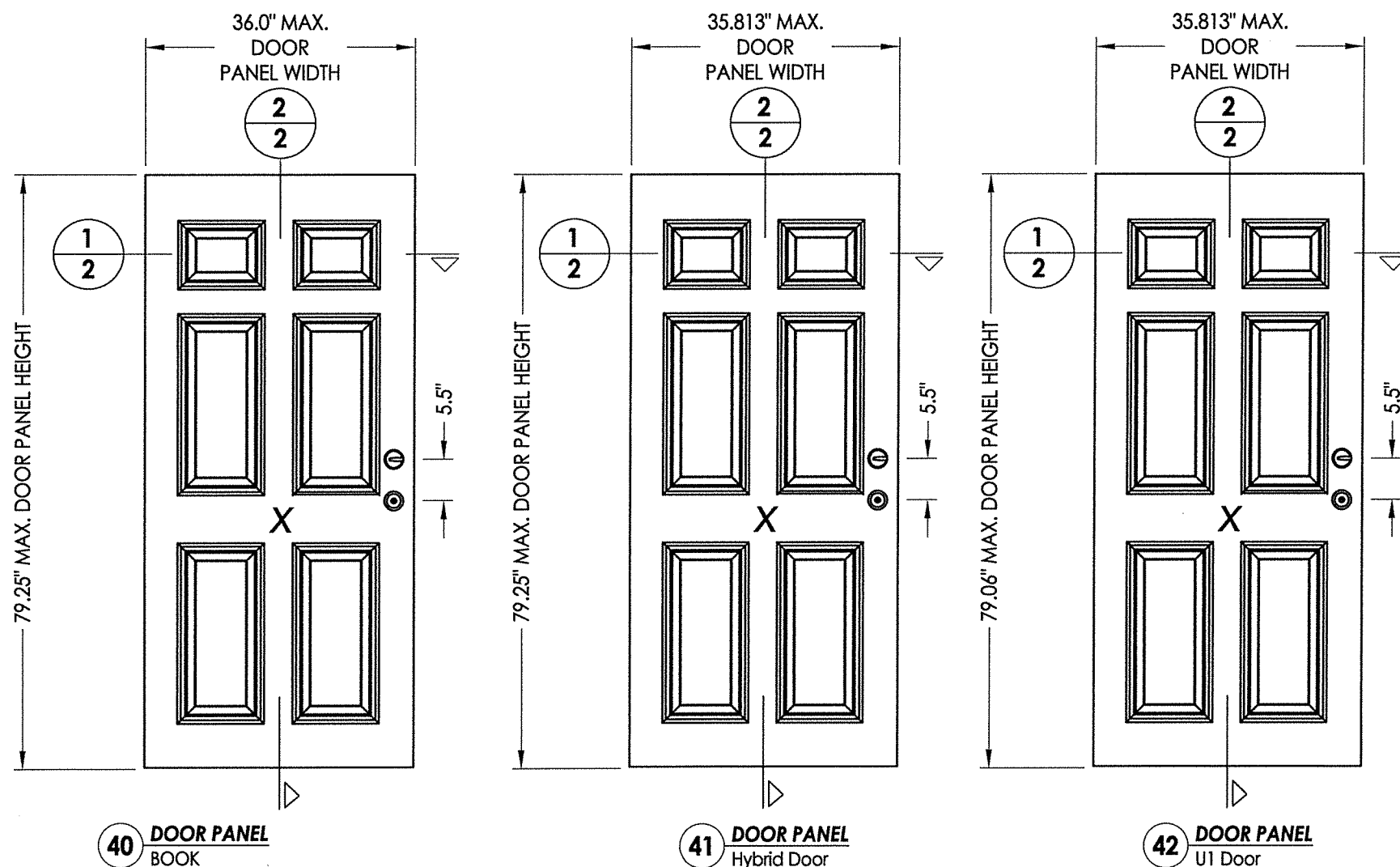
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

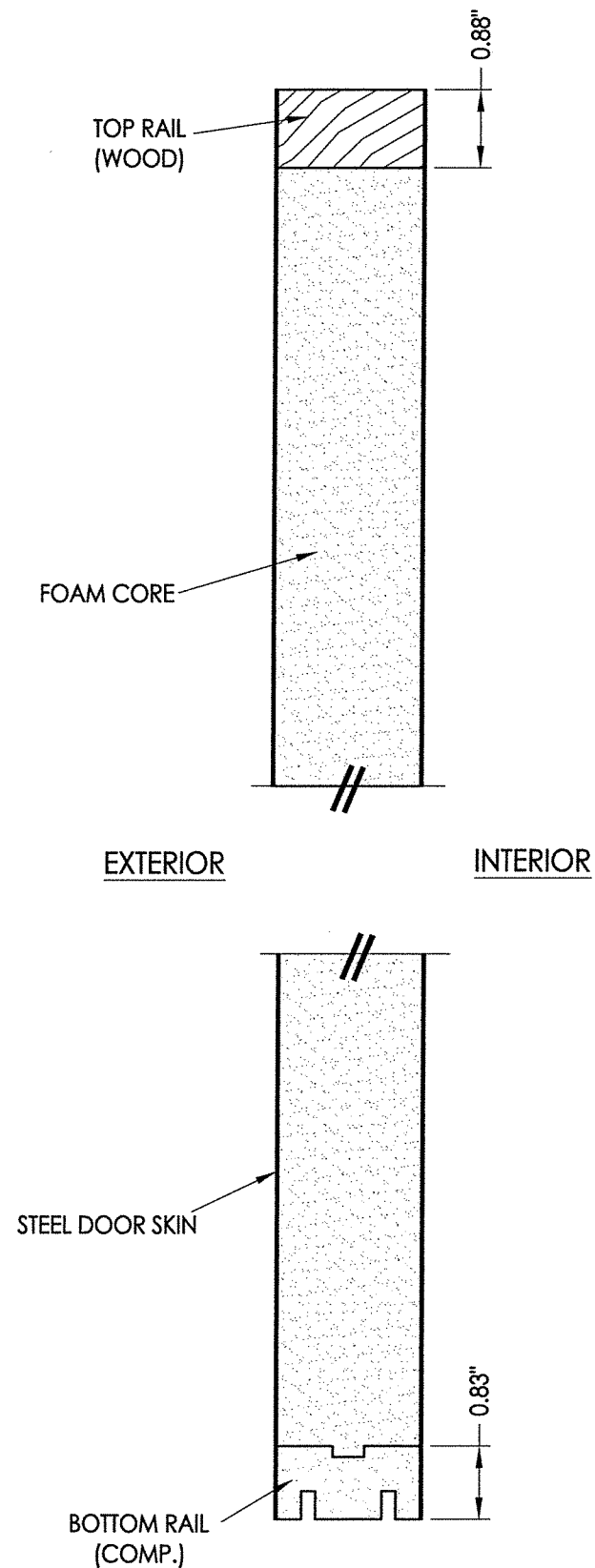
PRODUCT:	THERMA-TRU STEEL DOOR
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
1	7/15/20	UPDATE TO 7th ED (2020) FBC

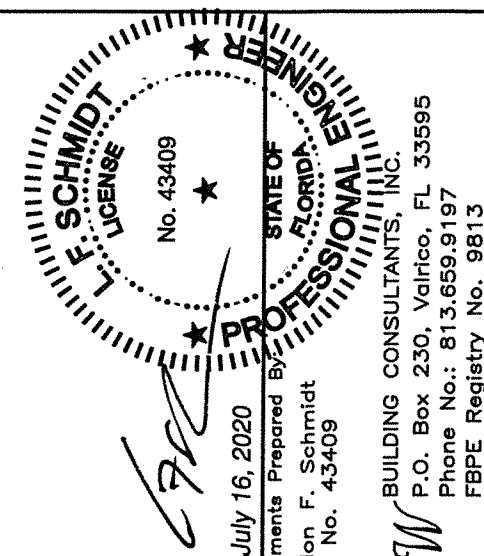
DATE:	10/11/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-23507.3
SHEET	1 OF 14



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



2 VERTICAL CROSS SECTION



July 10, 2020

July 10, 2020
Documents Prepared By
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PRODUCT: THERMA-TRU STEEL DOOR

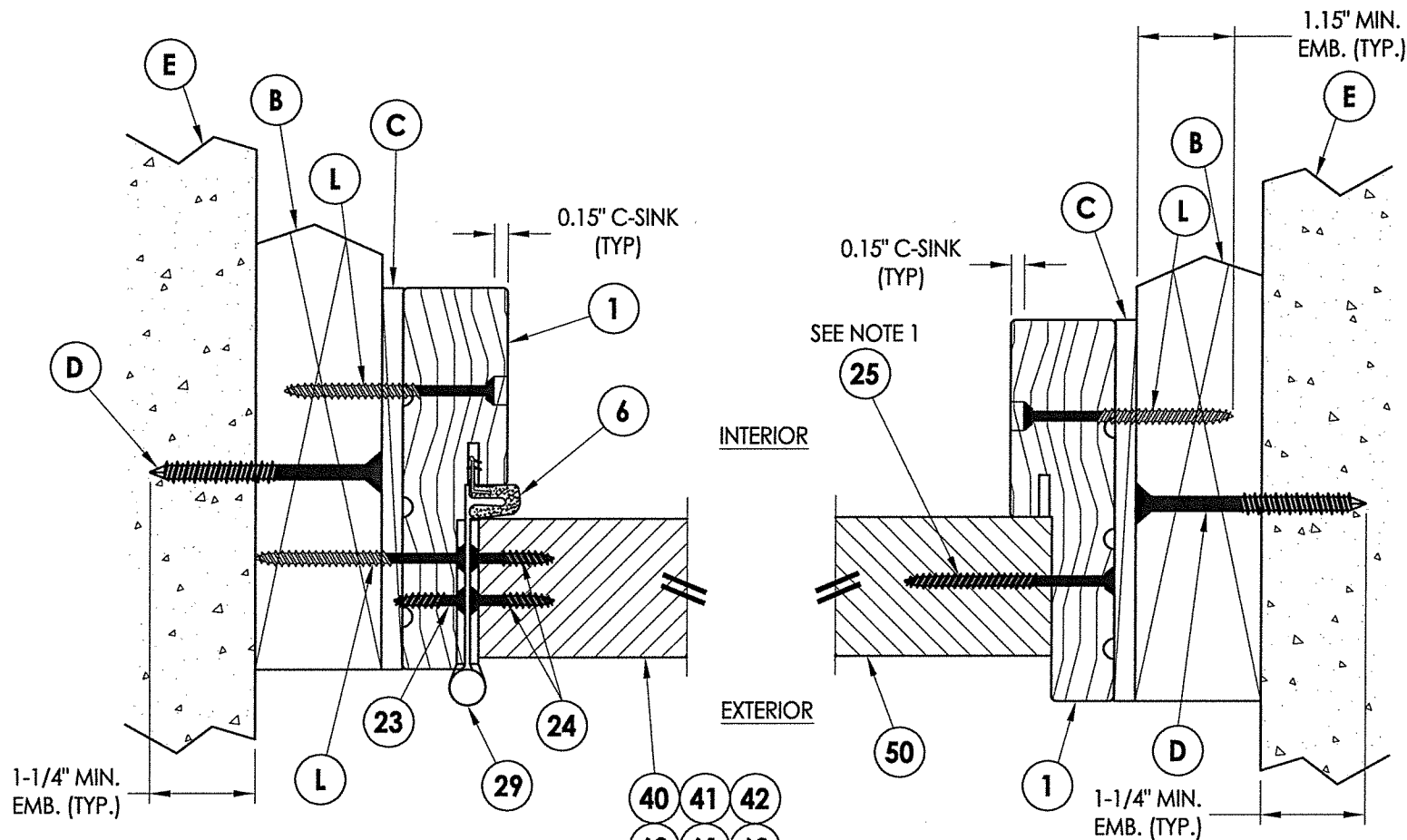
PART OR ASSEMBLY:
"PROFILES"
DOOR PANEL DETAILS

REVISEMENTS

NO.	DATE	UPDATE TO	BY
1	7/15/20	7th ED (2020) FBC	P0

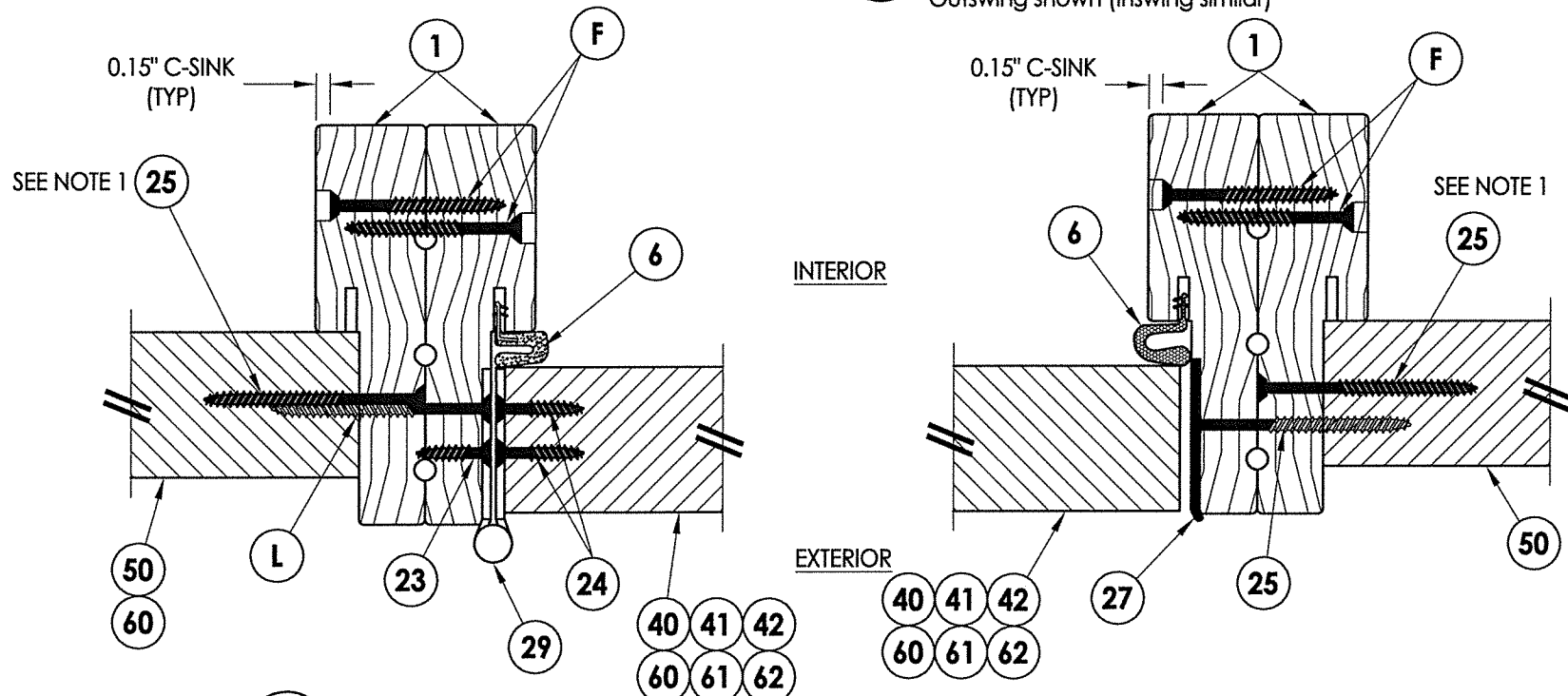
DATE: 10/11/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-23507.3
SHEET 2 OF 14

R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-23507 Wood Edge Steel Door (HVHZ - Impact)\DRAWINGS\FL-23507 (2020)\FL-23507.1-5.dwg, 6.3



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

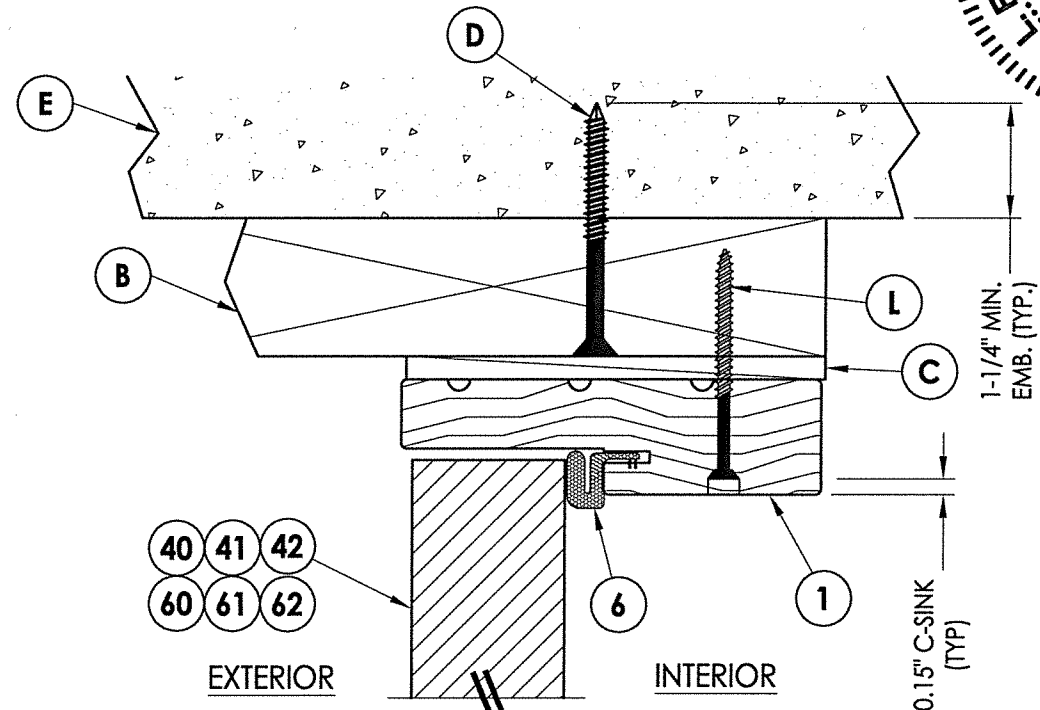
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6 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



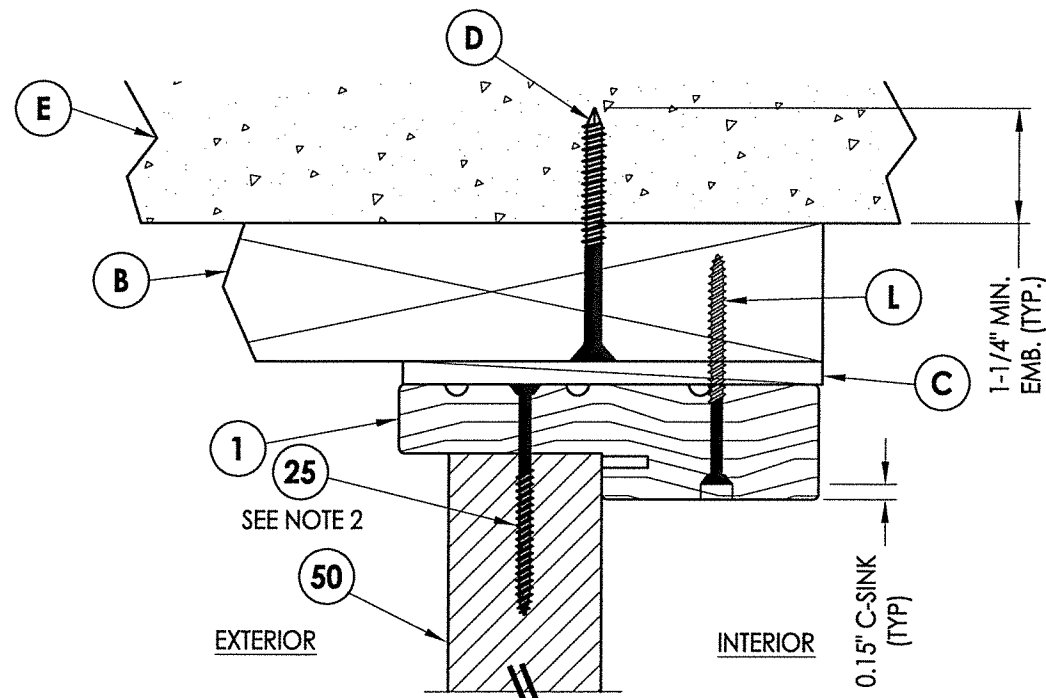
5
6 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)

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

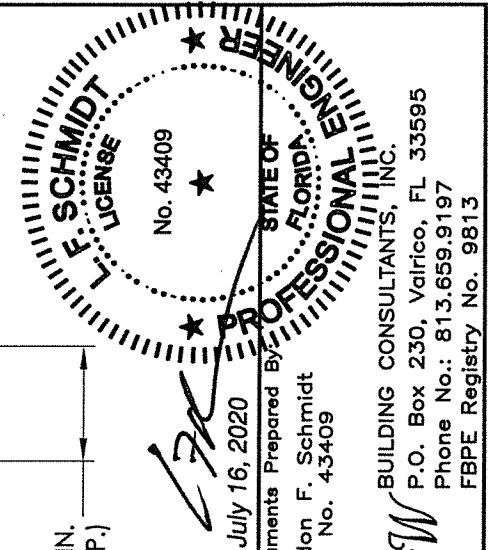
- Notes:
1. Sidelite assembly screws located 8" from top and 8" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



3
6 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

NO.	DATE	REVISIONS
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 10/11/17

SCALE: N.T.S.

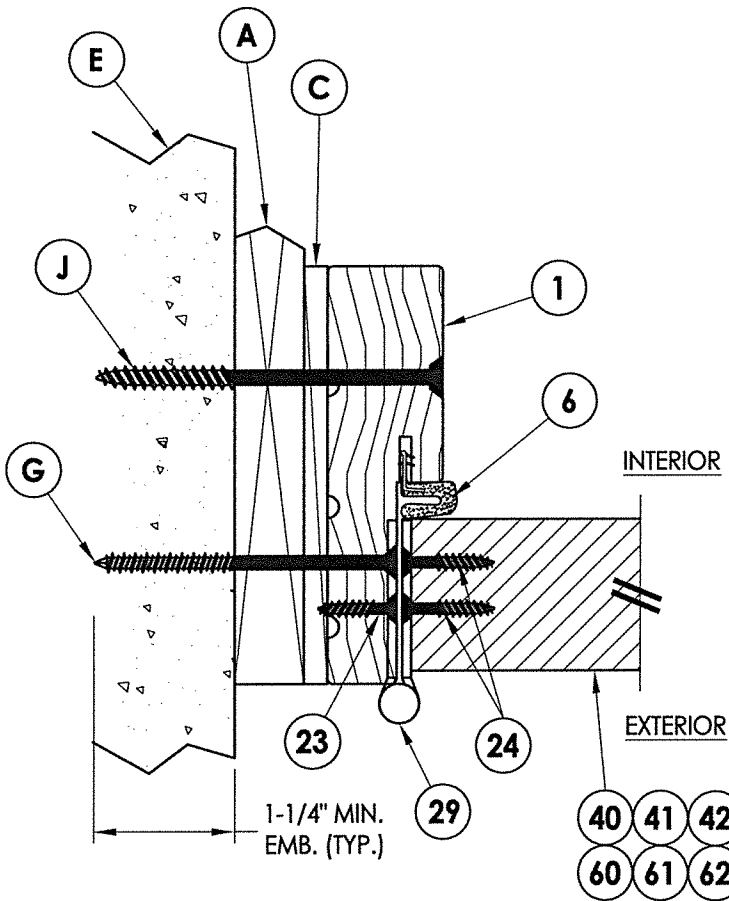
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CHK. BY: LFS

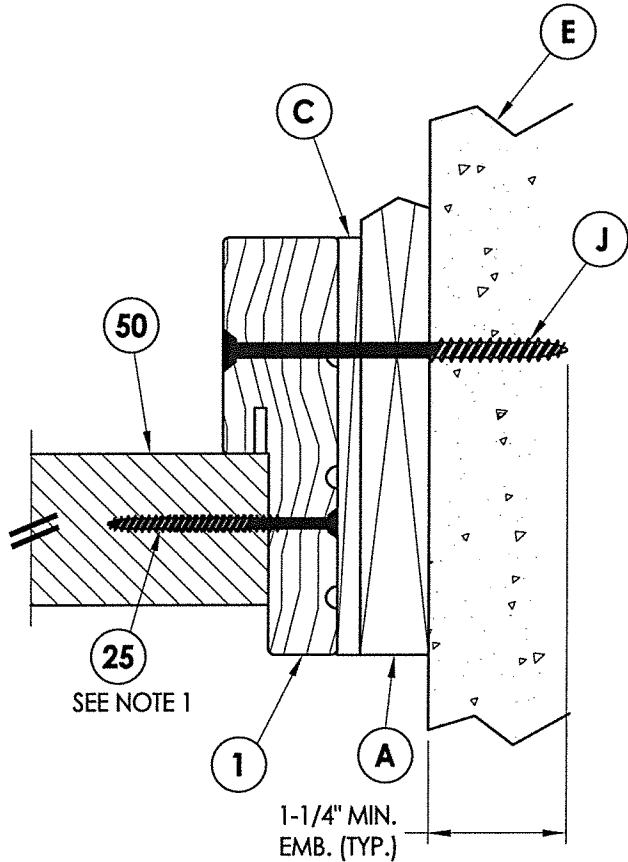
DRAWING NO.: FL-23507.3

SHEET 6 OF 14

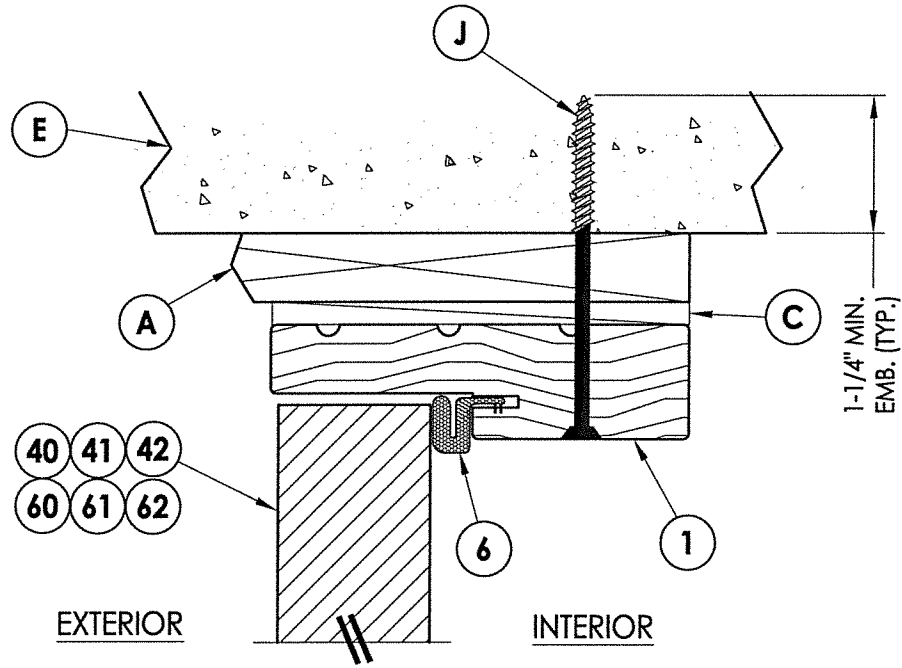
- Notes:
1. Sidelite assembly screws located 8" from top and 8" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



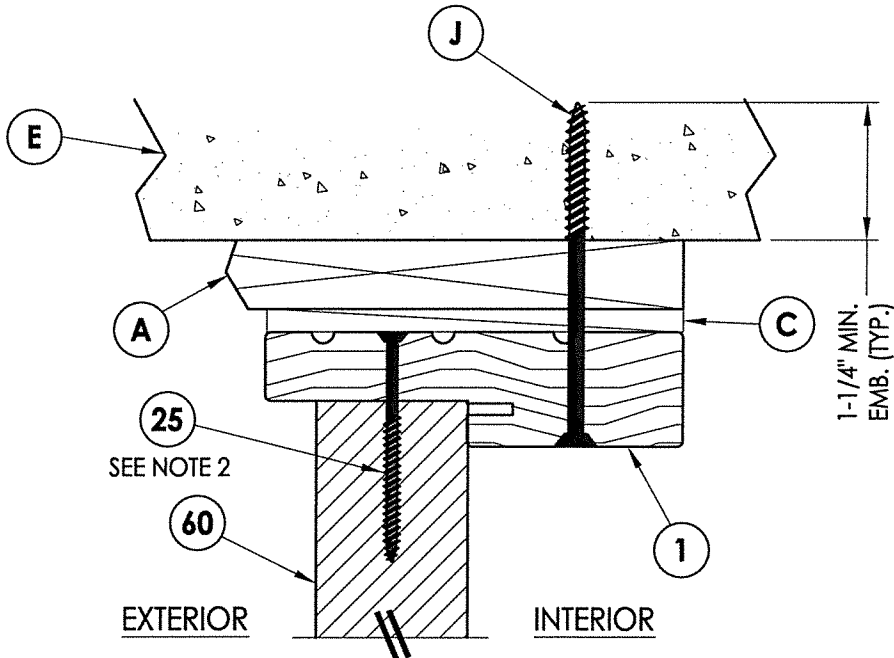
1
7 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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



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



4
7 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

STATE OF FLORIDA PROFESSIONAL ENGINEER No. 43409 July 16, 2020 Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
DATE: 10/11/17		SCALE: N.T.S.		DWG. BY: JK	
CHK. BY: LFS		DRAWING NO.: FL-23507.3		SHEET 7 OF 14	
NO. DATE		1 7/15/20 UPDATE TO 7th ED (2020) FBC		PO BY	
REVISIONS					

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

- 1-1/4" MIN. EMB. (TYP.):** Dimension for the exterior finish layer.
- 2" MIN.:** Dimension for the exterior finish layer.
- 1.5" MAX.:** Dimension for the exterior finish layer.
- 60:** Callout for the exterior finish layer.
- 25:** Callout for the exterior finish layer.
- SEE NOTE 2:** Reference to a note.
- EXTERIOR:** Label for the exterior side.
- INTERIOR:** Label for the interior side.
- Callouts:** E, C, D, 1.

Technical drawing of a wall assembly cross-section. The drawing shows a vertical wall section with a horizontal break line. Key components and dimensions include:

- Dimensions:**
 - 1.5" MAX. (top vertical dimension)
 - 1.5" MIN. (middle vertical dimension)
 - 4" (left vertical dimension)
 - 1-1/4" MIN. EMB. (TYP.) (bottom horizontal dimension)
- Labels:**
 - C**: Points to a vertical component, possibly a stud or partition.
 - 1**: Points to a vertical component, possibly a stud or partition.
 - N**: Points to a horizontal component, possibly a nail or fastener.
 - M**: Points to a horizontal component, possibly a nail or fastener.
 - E**: Points to a horizontal component, possibly a nail or fastener.
- Material Indicators:**
 - Wavy lines represent insulation.
 - Diagonal hatching represents a different material, possibly concrete or masonry.
- Fasteners:**
 - 60, 61, 62 (top row of fasteners)
 - 40, 41, 42 (bottom row of fasteners)

Diagram illustrating a vertical cross section of a door assembly, showing the interior and exterior components and fasteners.

Interior Components:

- 1:** Interior door panel.
- C:** Interior door frame or jamb.
- 60:** Interior door stop or weatherstripping.
- 25:** Interior door hinge or fastener.

Exterior Components:

- 25:** Exterior door hinge or fastener.
- E:** Exterior door frame or jamb.

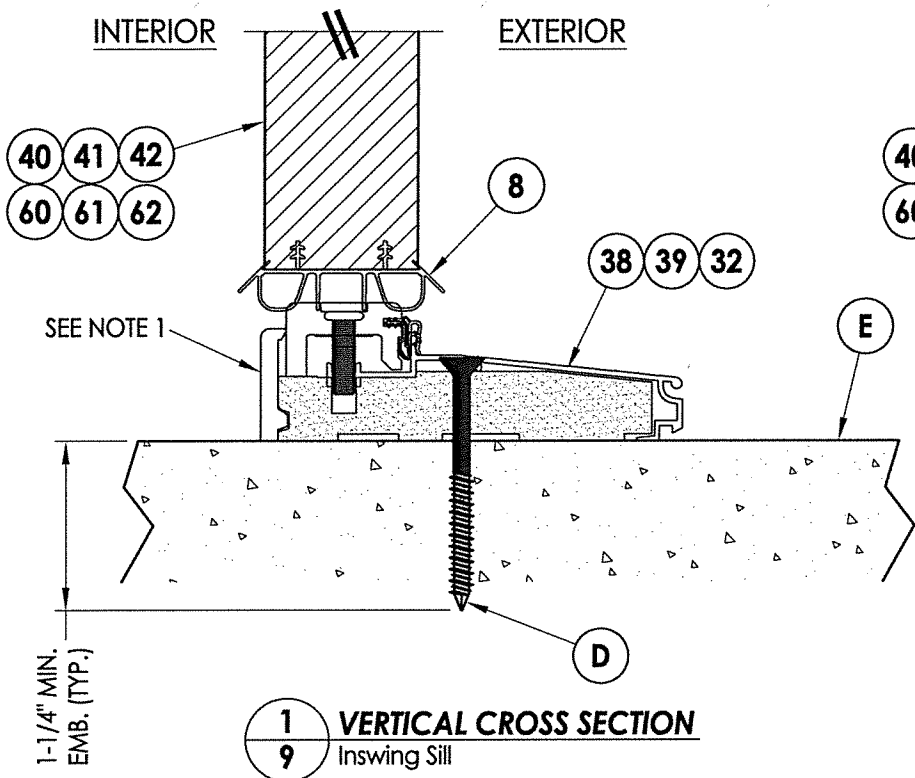
Dimensions and Notes:

- 1.5" MAX.**: Maximum dimension for the interior door panel thickness.
- 1.5" MIN.**: Minimum dimension for the interior door frame or jamb thickness.
- 4.25"**: Dimension for the interior door panel height.
- 1-1/4" MIN. EMB. (TYP.)**: Minimum dimension for the exterior door frame or jamb thickness.
- SEE NOTE 1**: Reference to a note regarding the fasteners.

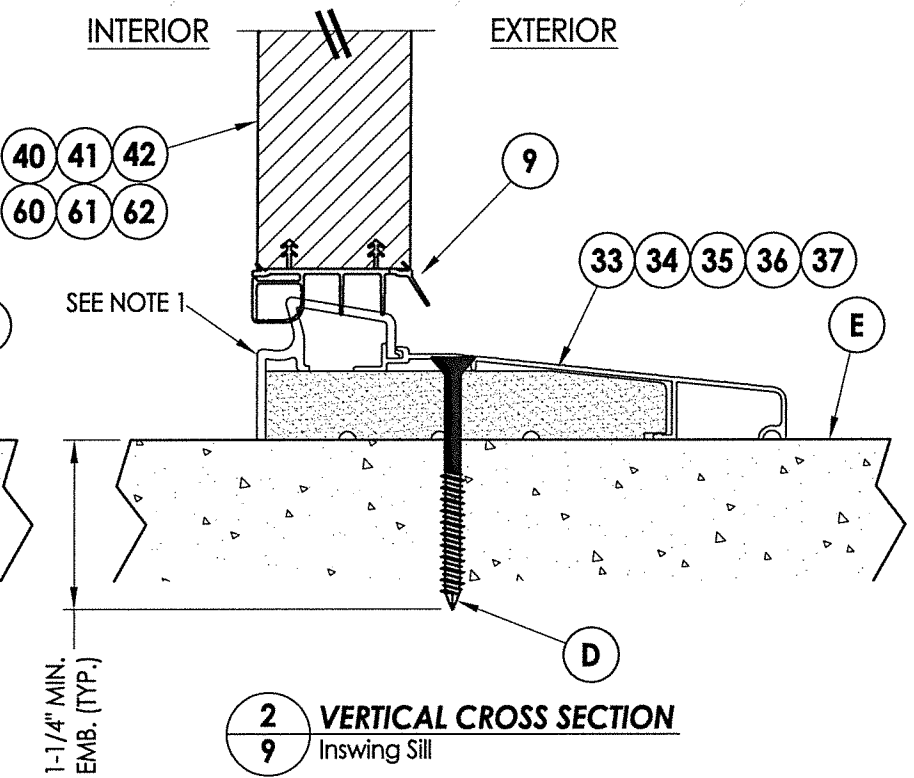
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R:\Clients\Therma Tru Permanent\VA - Florida Product Approvals\FL-23507 Wood Edge Steel Door (HVHZ - Impact)\DRAWINGS\FL-23507 (2020)\FL-23507.1-5.dwg, 9.3

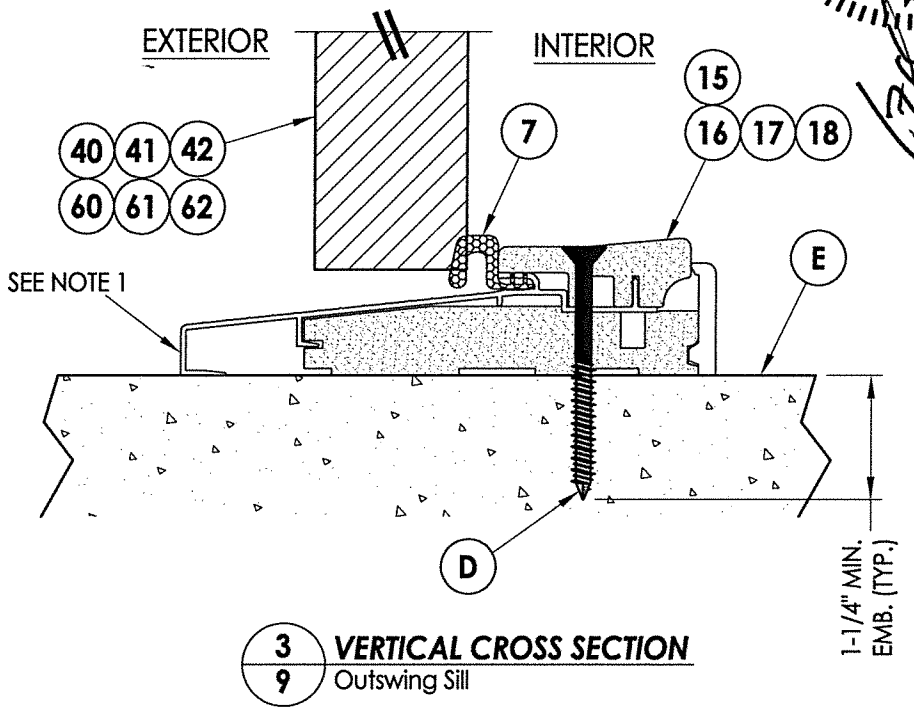
- Notes:
- 1. Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
 - 2. Sidelite assembly screws located 4" from each end (2 screws along sill).



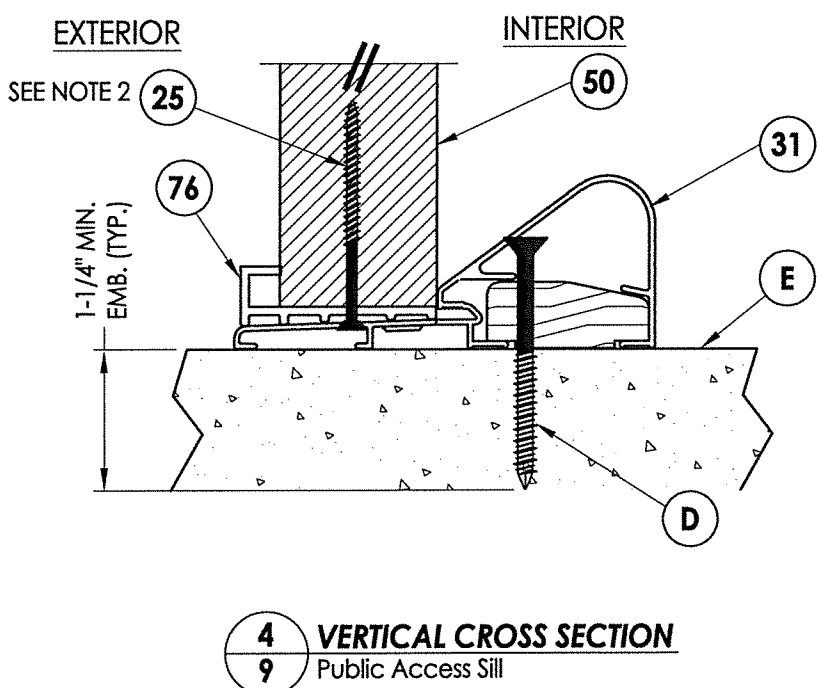
1 VERTICAL CROSS SECTION
9 Inswing Sill



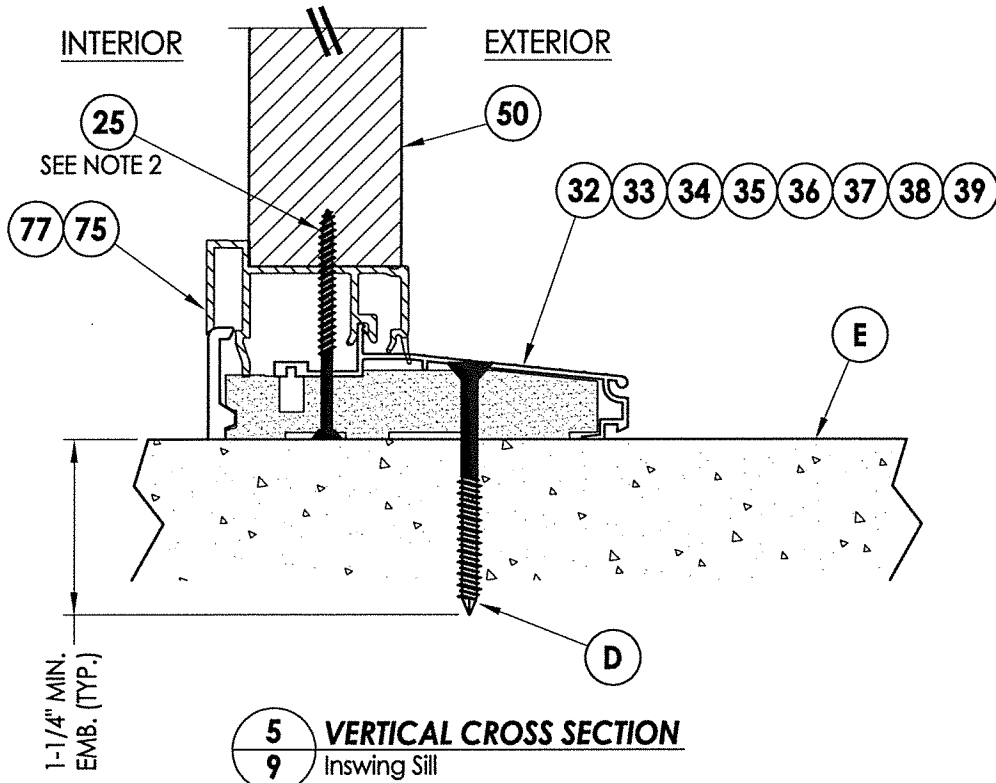
2 VERTICAL CROSS SECTION
9 Inswing Sill



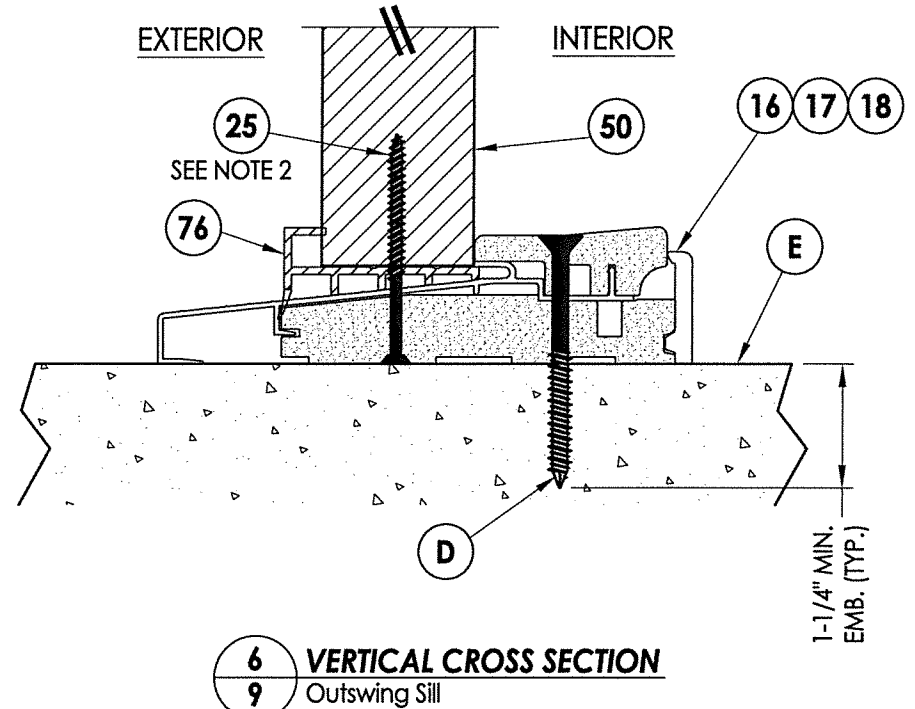
3 VERTICAL CROSS SECTION
9 Outswing Sill



4 VERTICAL CROSS SECTION
9 Public Access Sill



5 VERTICAL CROSS SECTION
9 Inswing Sill

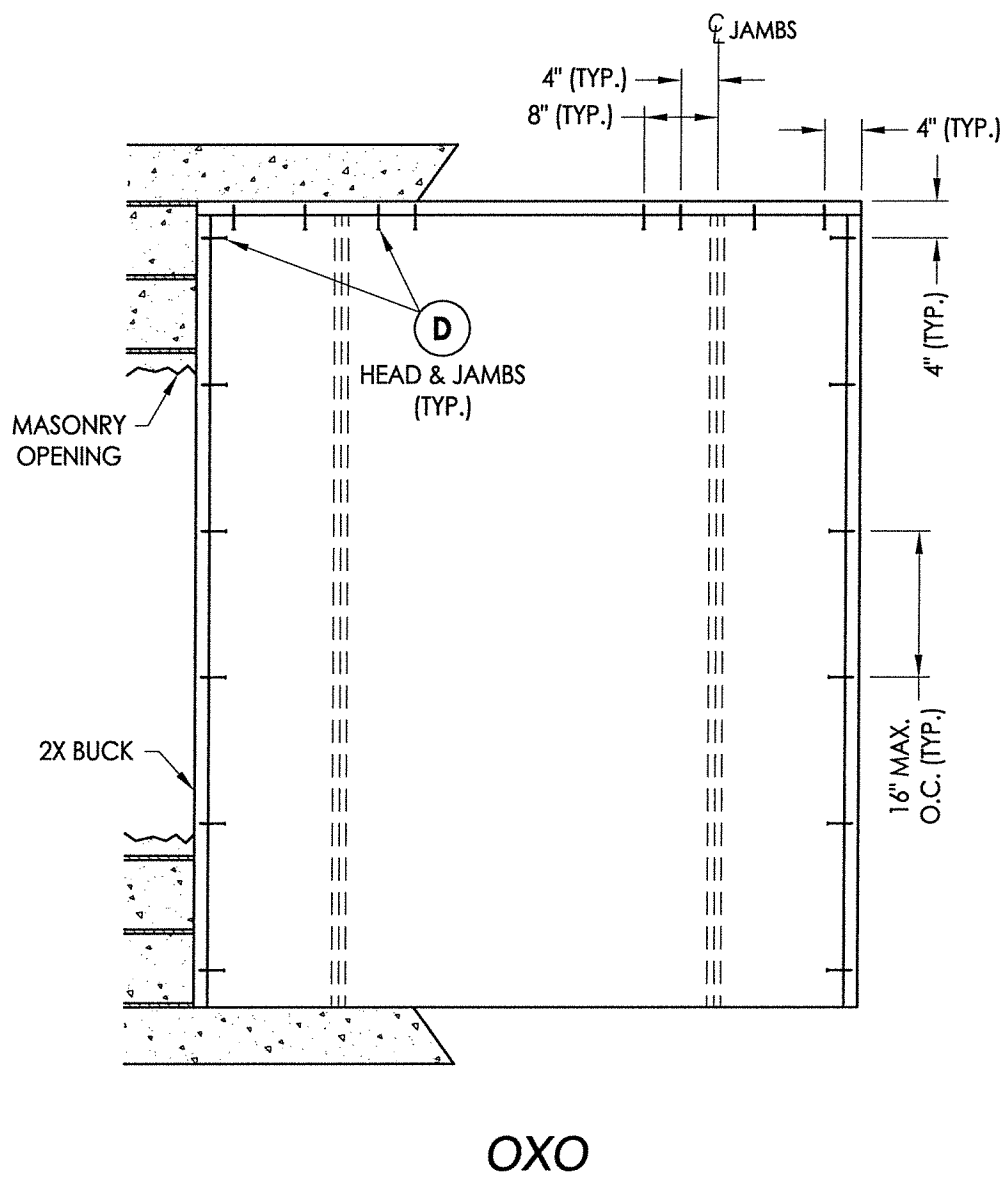
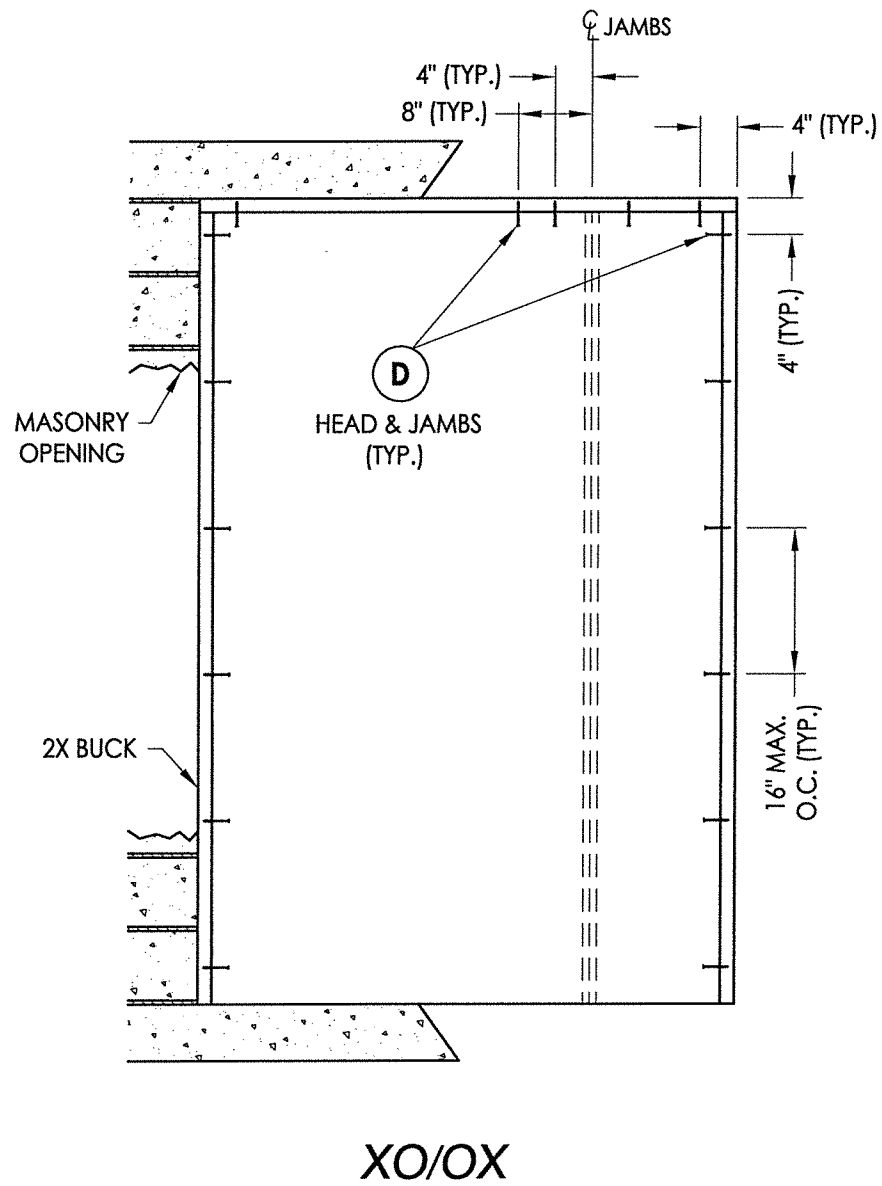


6 VERTICAL CROSS SECTION
9 Outswing Sill

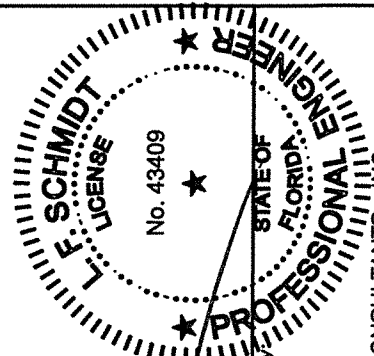
Professional Engineer
FL License No. 43409
State of Florida
Professional Engineer
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

July 16, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	
DATE:		10/11/17	
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-23507.3	
SHEET		9	OF 14



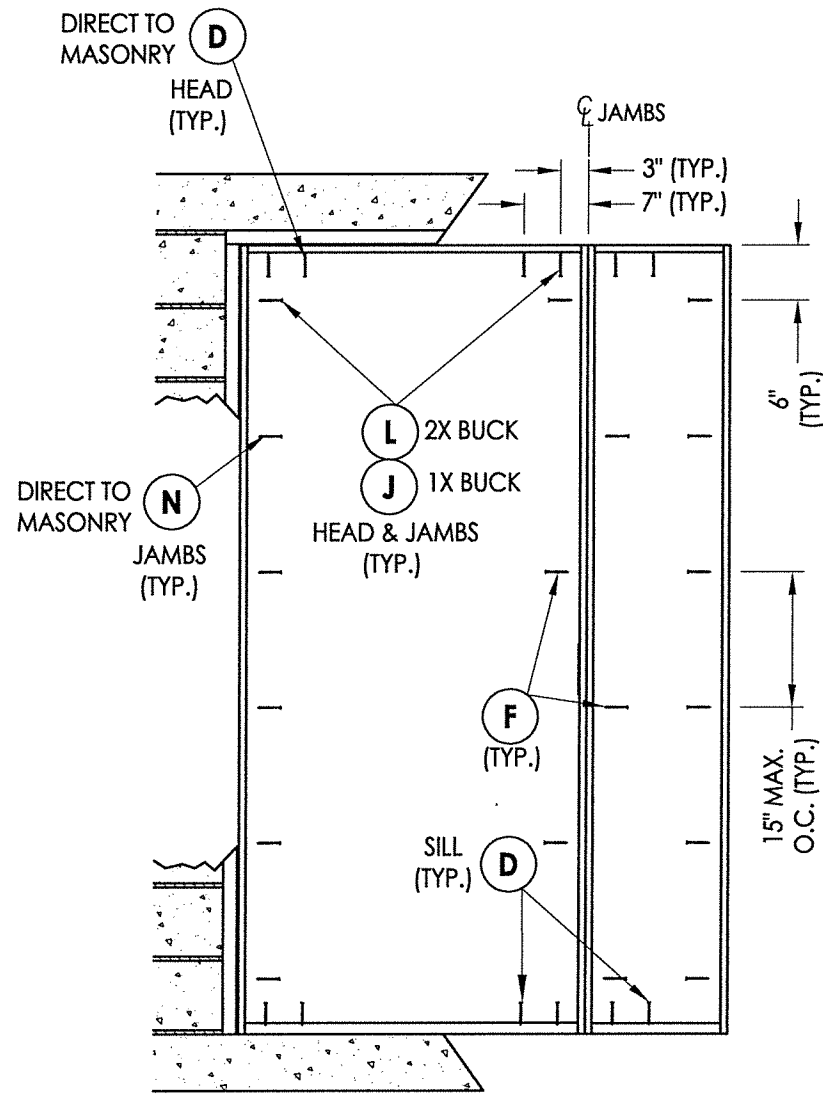
2X BUCK ANCHORING



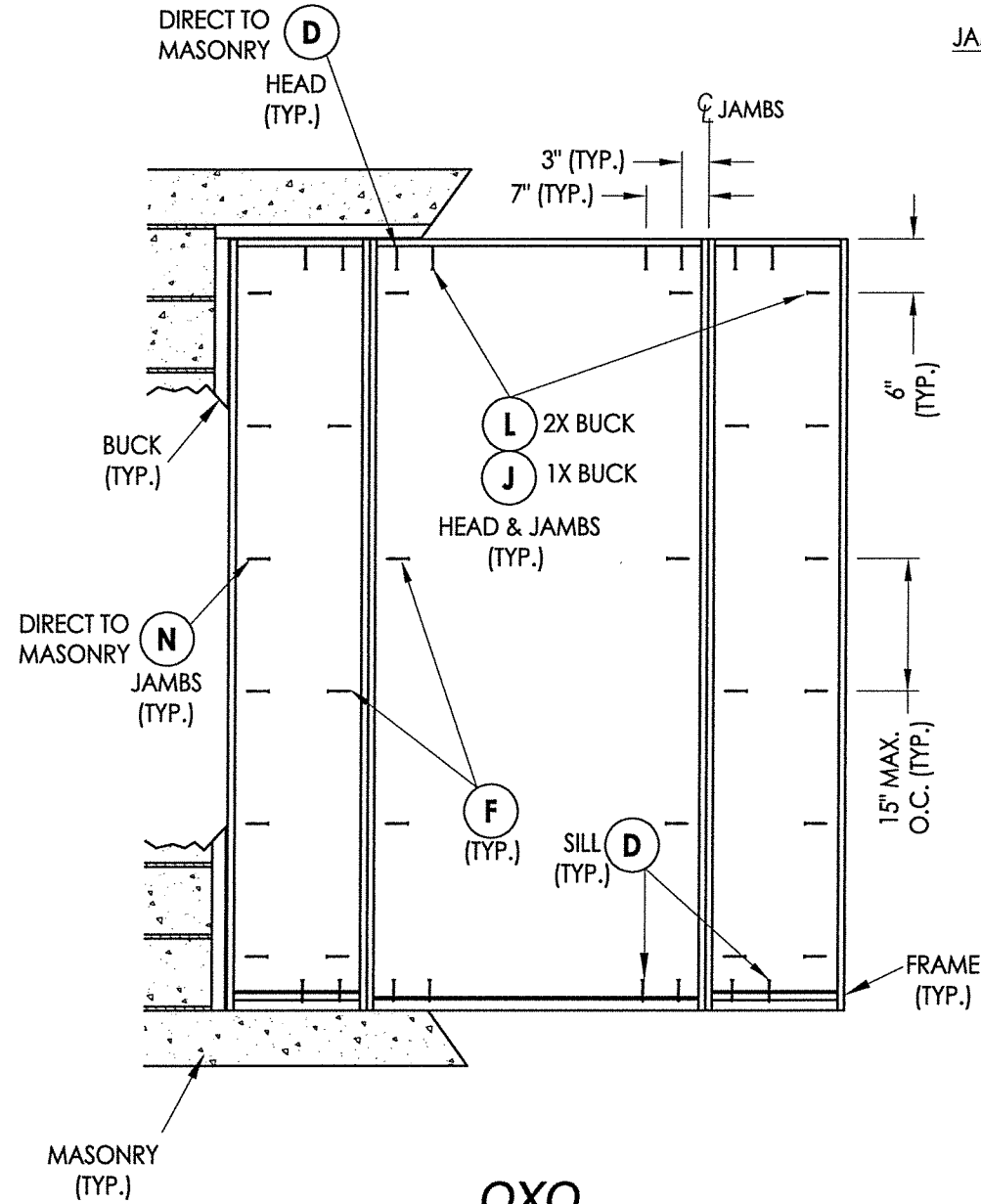
July 16, 2020
Documents Prepared By:
Lyndon F. Schmidt
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R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		BUCK ANCHORING	
NO.	DATE	UPDATE TO 7th ED (2020) FBC	PO
			BY
REVISIONS			
DATE: 10/11/17			
SCALE: N.T.S.			
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.: FL-23507.3			
SHEET 10 OF 14			

R:\Clients\Therma Tru PERMANENT\A - Florida Product Approvals\FL-23507 Wood Edge Steel Door (HVHZ - Impact)\DRAWINGS\FL-23507 (2020)\FL-23507.1-5.dwg, 11.3

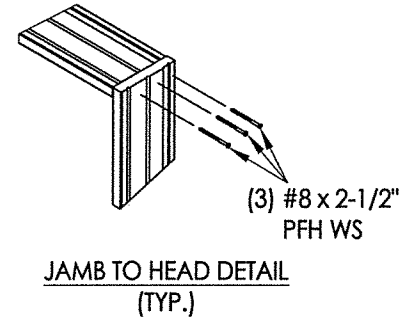


XO/OX



OXO

FRAME ANCHORING

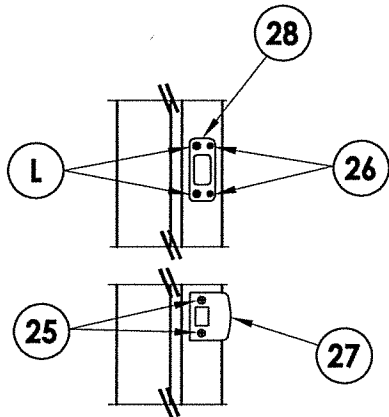


F. SCHMIDT
LICENSE
No. 43409
STATE OF FLORIDA
PROFESSIONAL ENGINEER

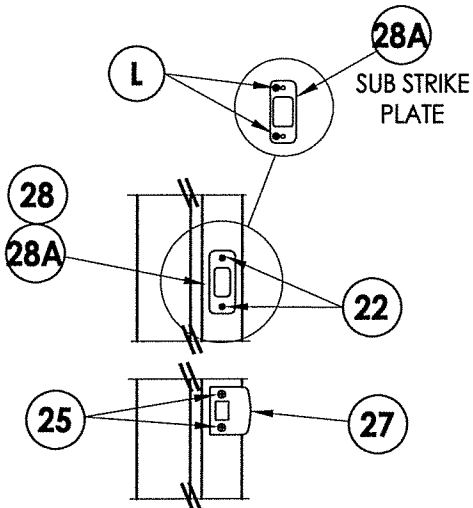
July 16, 2020
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

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:		FRAME ANCHORING	
NO.	DATE	UPDATE TO	PO
			BY
1	7/15/20	7th ED (2020) FBC	
REVISIONS			
DATE: 10/11/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-23507.3			
SHEET 11 OF 14			

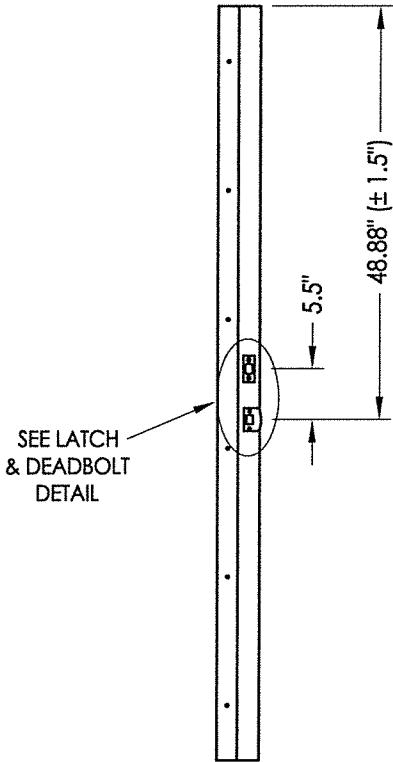


LATCH & DEADBOLT DETAIL
Kwikset

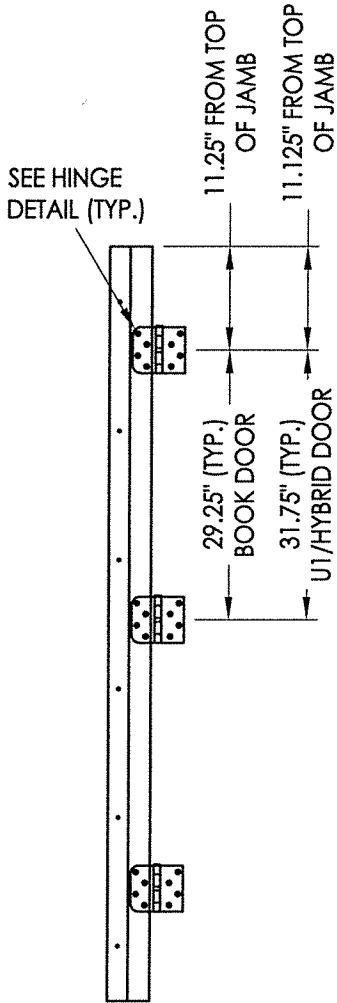


LATCH & DEADBOLT DETAIL
Schlage

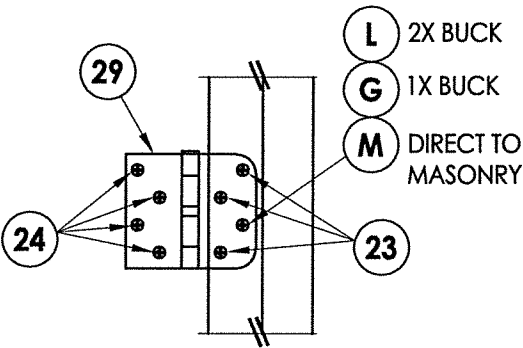
LATCH & DEADBOLT STRIKE DETAILS



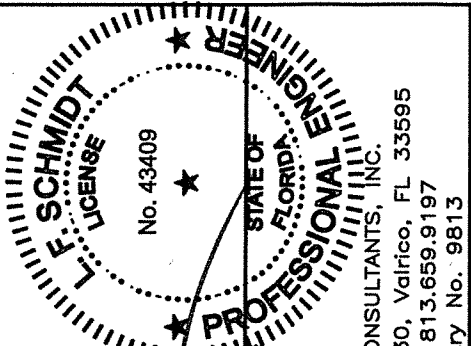
STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



HINGE DETAIL



July 16, 2020

Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No.: 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		HARDWARE DETAILS	
NO.	DATE	REVISIONS	
1	7/15/20	UPDATE TO 7th ED (2020) FBC	PO
			BY
DATE: 10/11/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-23507.3			
SHEET 12 OF 14			

Technical drawing of a roof section. The drawing shows a cross-section of a roof with a sloped surface. A vertical dimension line on the left indicates a height of 1.55". A horizontal dimension line at the top indicates a length of 5.75". The roof structure includes a sloped layer, a horizontal layer below it, and a vertical wall on the right. The interior of the roof structure is filled with a stippled pattern.

Technical drawing of a roof section. The drawing shows a cross-section of a roof with a horizontal span of 7.5 inches and a vertical height of 1.55 inches. The roof is supported by a structure with a sloped side. The drawing is labeled with dimensions 7.5" and 1.55".

[illegible]

Side elevation drawing of the building. The drawing shows a sloped roof with a chimney on the left side. The chimney has a height dimension of 1.3" and a width dimension of 7.59". The roofline slopes downwards from left to right.

* Max. Positive Design Pressure = +55 PSF
(Where water infiltration is required)

0.45"

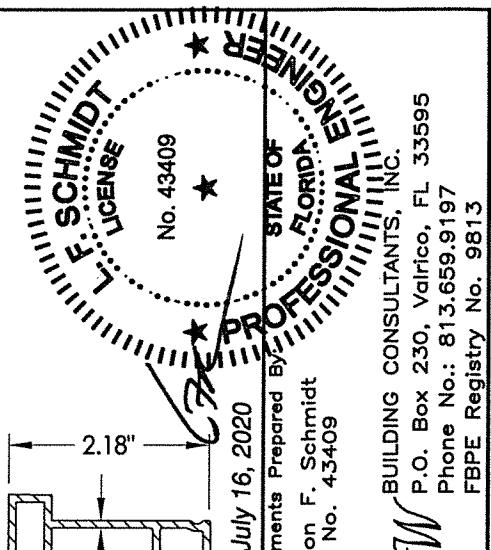
1.79"

8 SWEEP

9 **SWEEP**

2.06"

10 **SWEEP**



July 16, 2020

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P.E. No. 43409

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

PRODUCT:

THERMA-TRU
STEEF DOOR

PART OR ASSEMBLY:

COMPONENTS

DATE: 10/11/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-23507.3

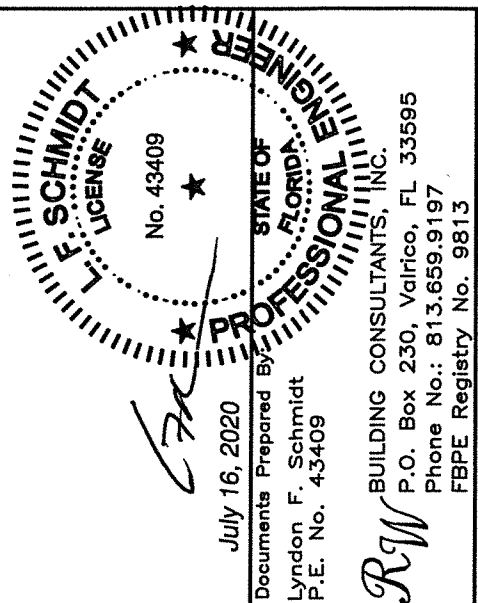
SHEET 13 OF 14

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
31	OUTSWING THRESHOLD	ALUM/COMP
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	-
50	SIDELITE (FULL LITE)	-
60	DOOR PANEL (BOOK) - "TRADITIONS" SERIES	-
61	DOOR PANEL (HYBRID) - "TRADITIONS" SERIES	-
62	DOOR PANEL (U1) - "TRADITIONS" SERIES	-
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC
77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC

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]