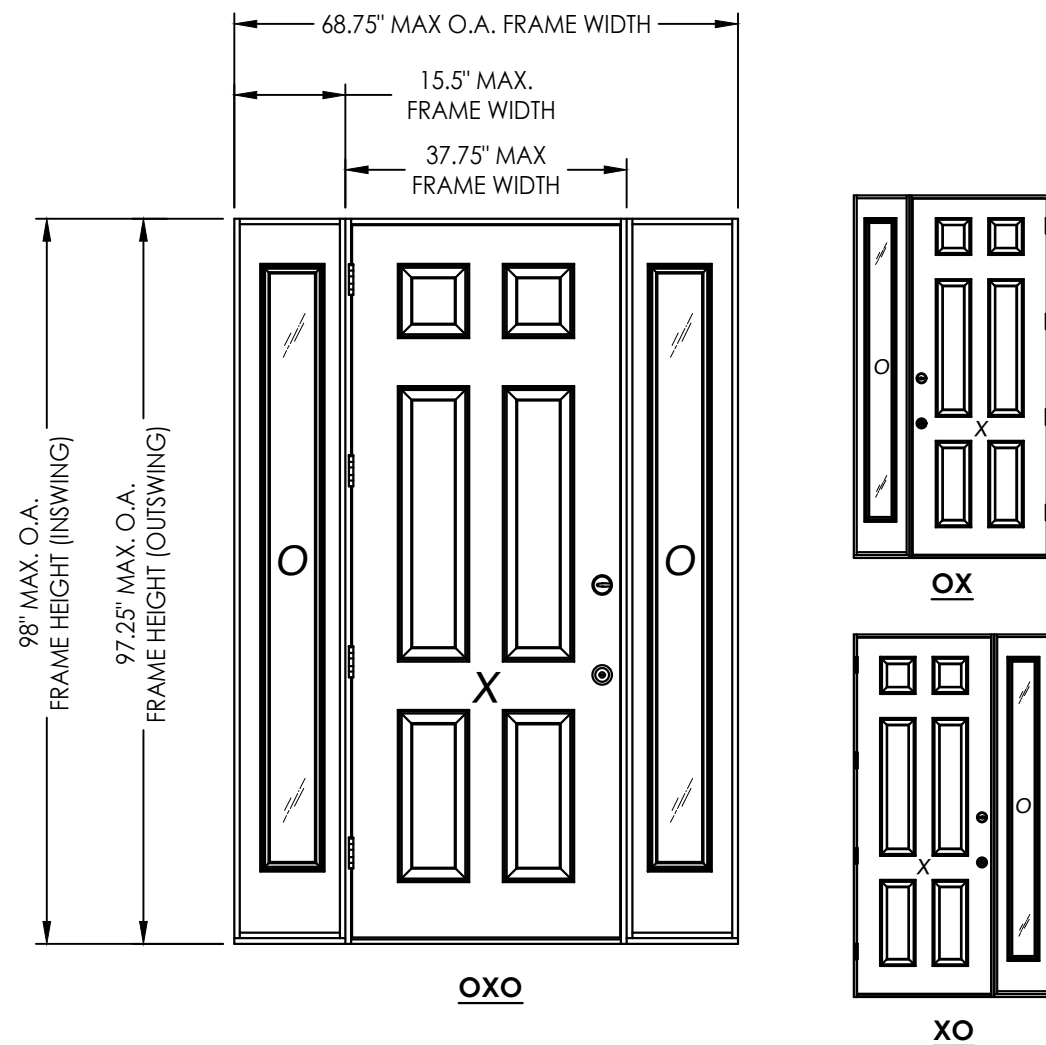


GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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 "Profiles"	9	Buck Anchoring
3	Sidelite Panel and Glazing 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
XO, OX, OXO	+60.0	-60.0	+60.0	-60.0

L7Schmidt



The seal is circular with a serrated outer edge. The text "L.F. SCHMIDT" is at the top, "LICENSE" is below it, and "No. 43409" is in the center. Below the number is a star, followed by "STATE OF FLORIDA". The bottom half of the seal contains the text "PROFESSIONAL ENGINEER" flanked by two stars.

Digitally signed by Lyndon F Schmidt
Date: 2023.08.07 15:43:35 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

2	8/07/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
1	7/20/20	UPDATE TO 7th ED	(2020)	FBC	LFS
NO.	DATE				BY
REVISIONS					

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

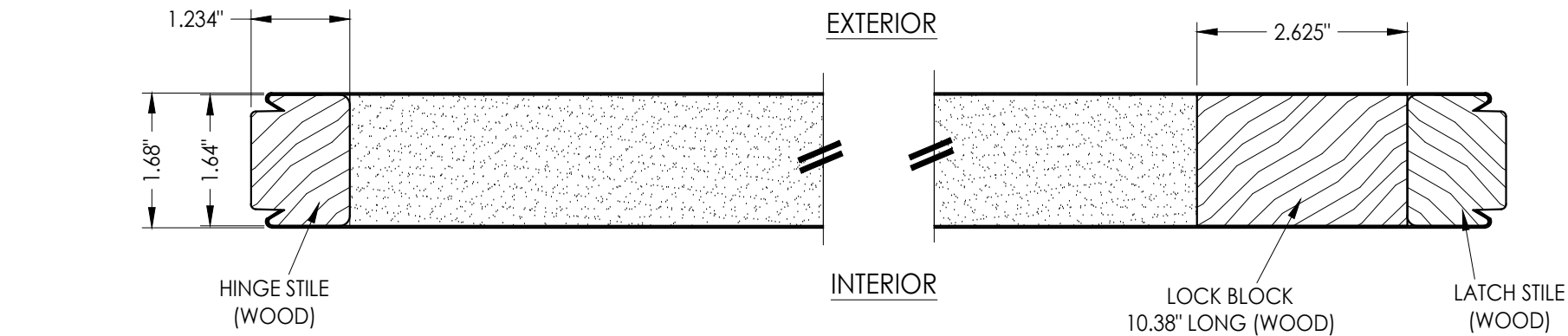
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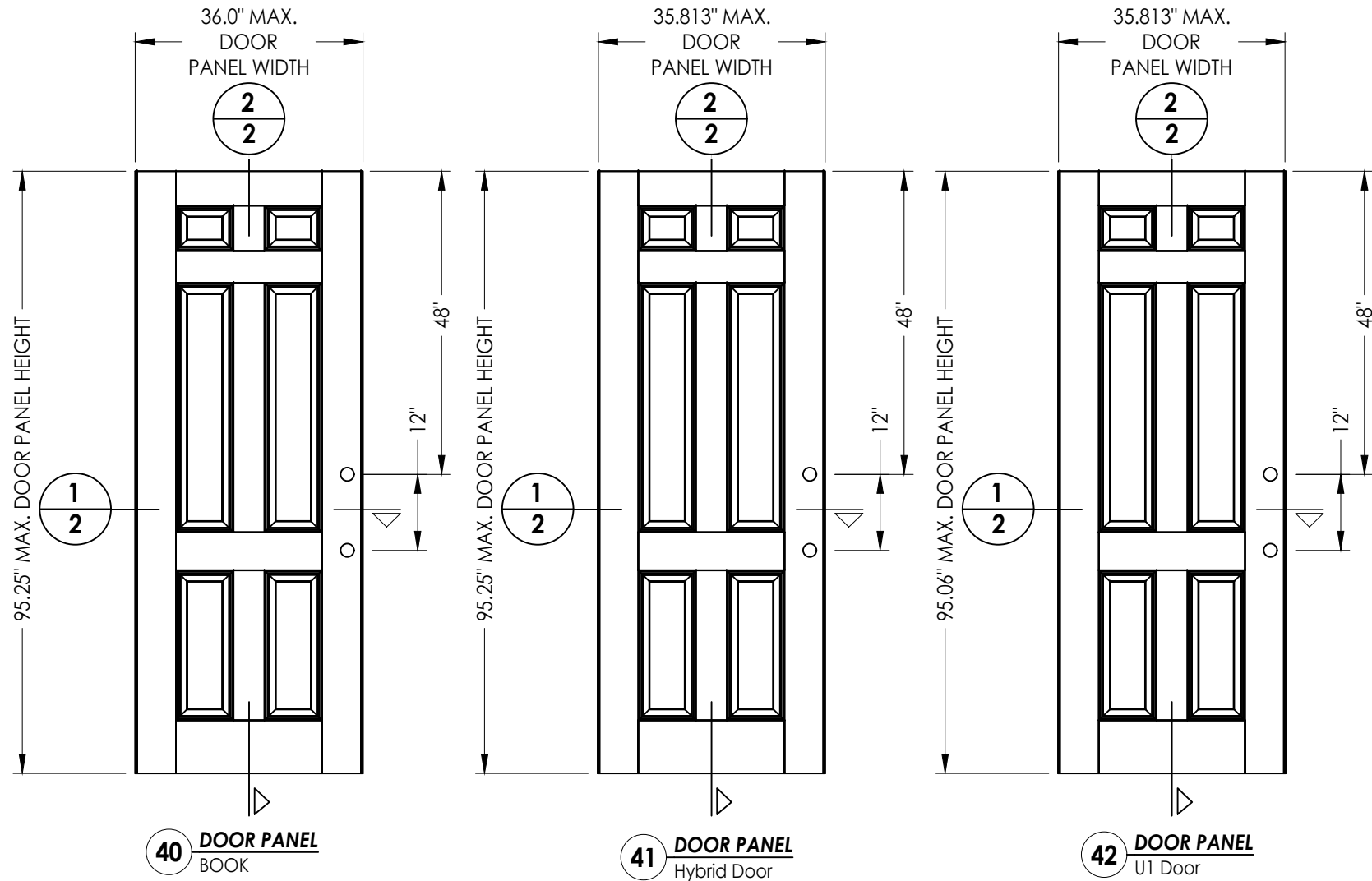
FL-21132.7

SHEET 1 OF 13

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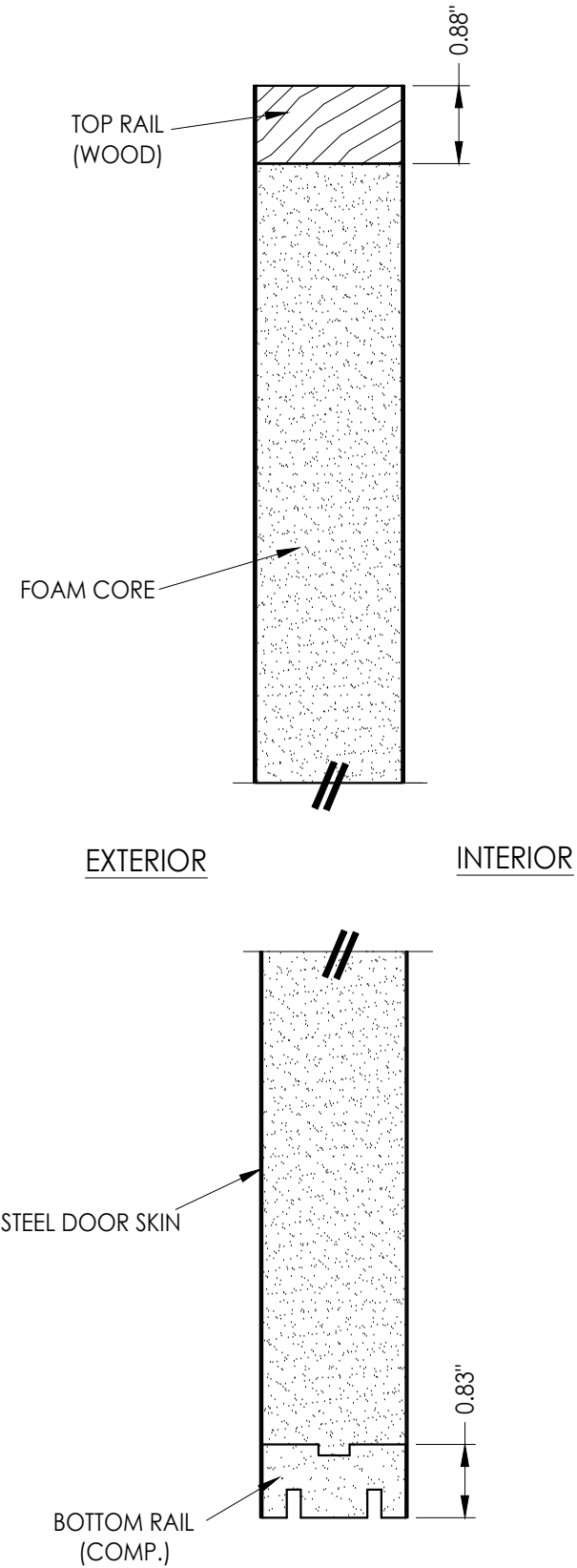


1
2 HORIZONTAL CROSS SECTION



"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

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

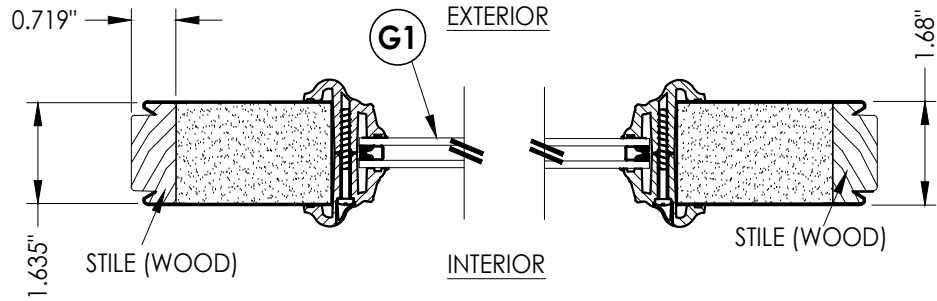
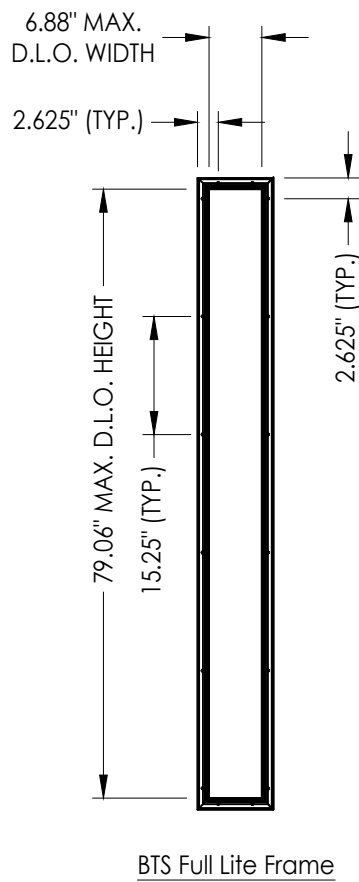
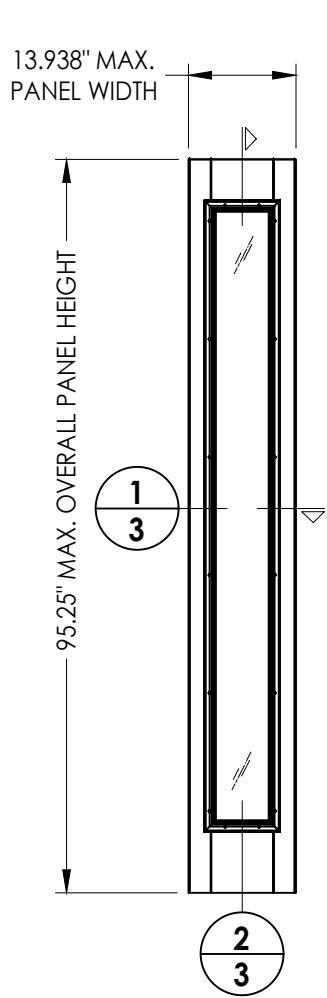
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
		LFS	BY
		DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/20/20	UPDATE TO 7th ED (2020)	FBC
DATE		NO.	BY
10/12/17			
SCALE: N.T.S.			
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CHK. BY: LFS			
DRAWING NO.: FL-21132.7			
SHEET 2 OF 13			

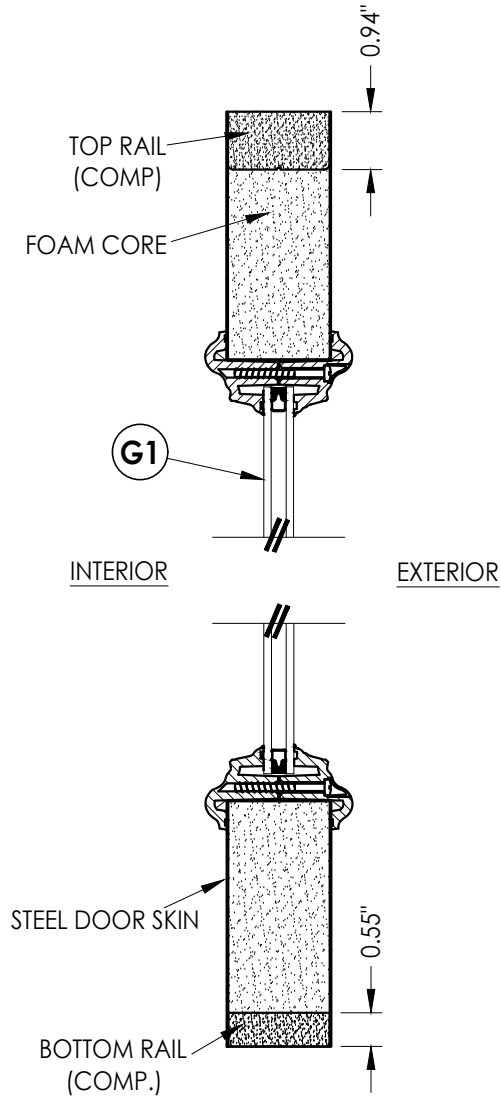
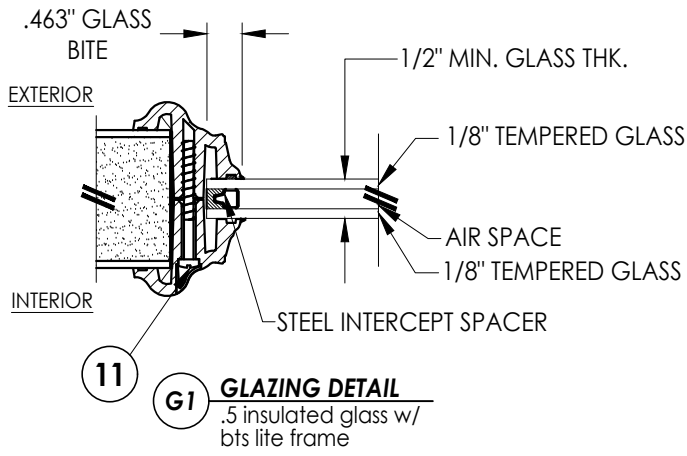
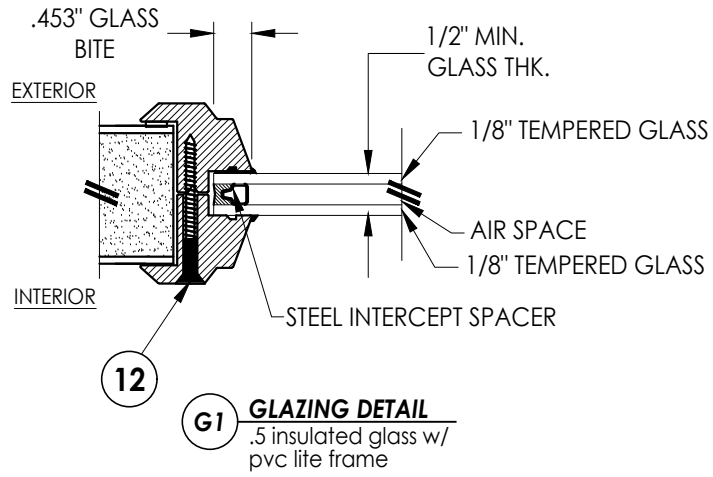
Z:\2023 FBC Drawings\Therma-Tru\FL-21132 R2\FL-21132.6-8.dwg

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)



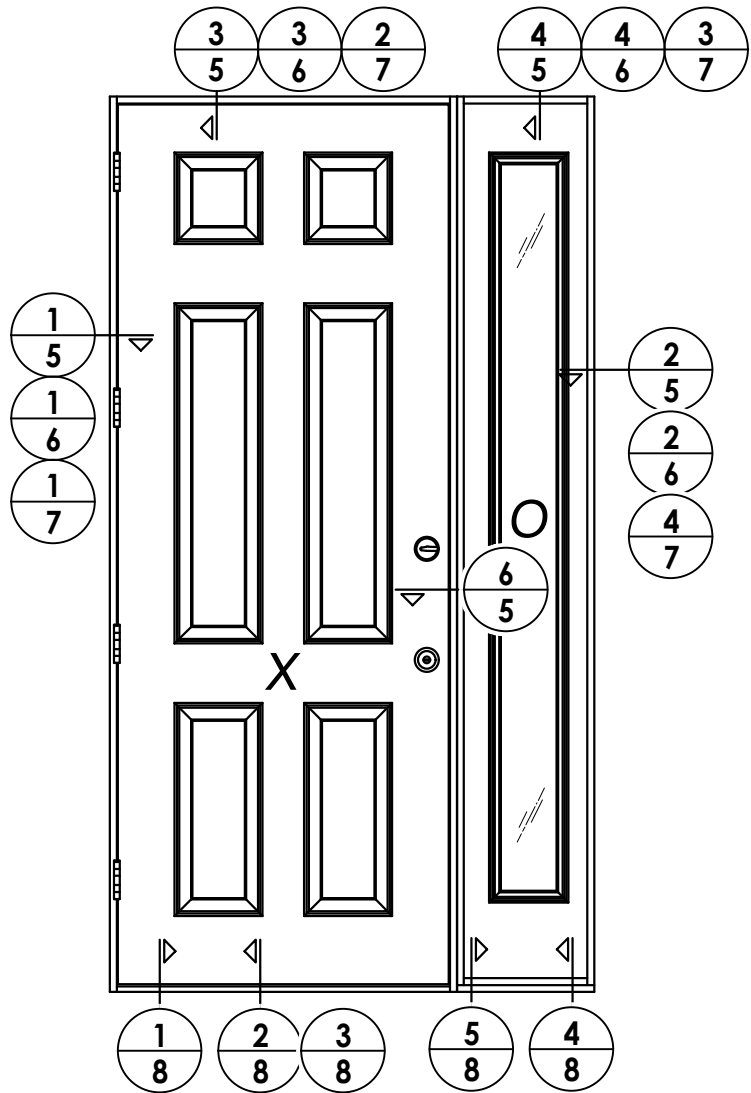
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3 HORIZONTAL CROSS SECTION



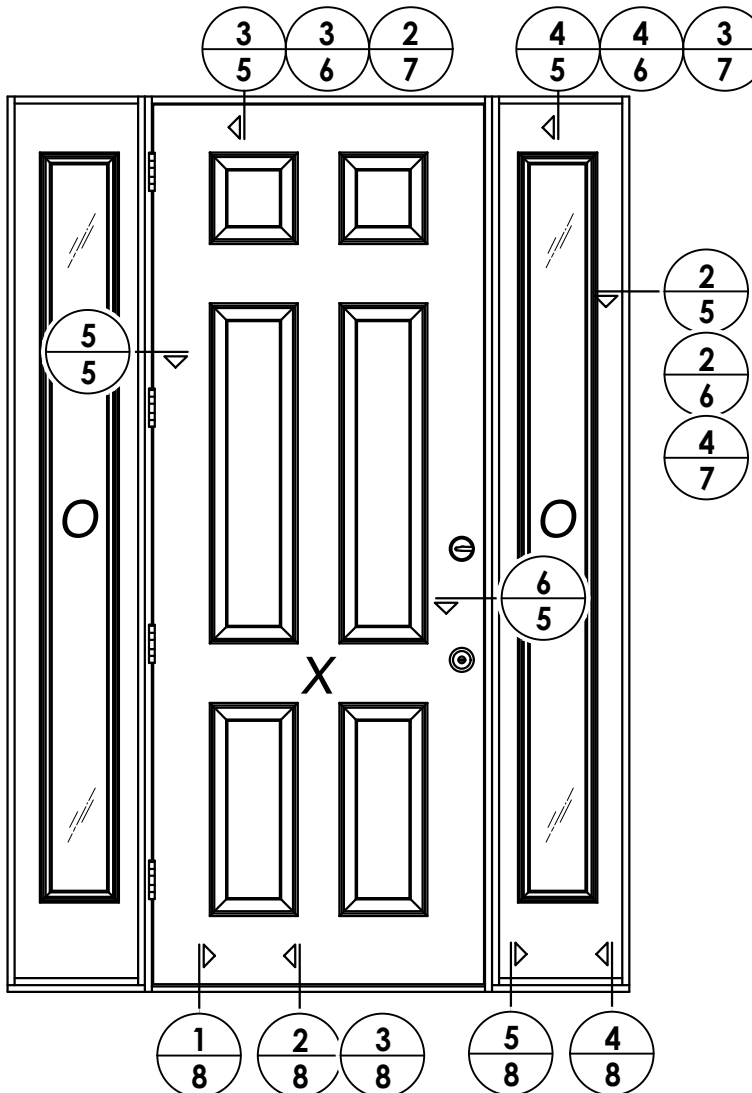
2
3 VERTICAL CROSS SECTION

PRODUCT:		THERMA-TRU STEEL DOOR		PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
DOCUMENTS PREPARED BY:		Lynndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC.		P.O. Box 230, Vairico, 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-21132.7		SHEET		3 OF 13	
NO.		DATE		LFS		BY	
2		8/07/23		UPDATE TO 8TH ED. (2023)		FBC	
1		7/20/20		UPDATE TO 7th ED (2020)		FBC	
REVISIONS							

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ELEVATION
XO



ELEVATION
OXO

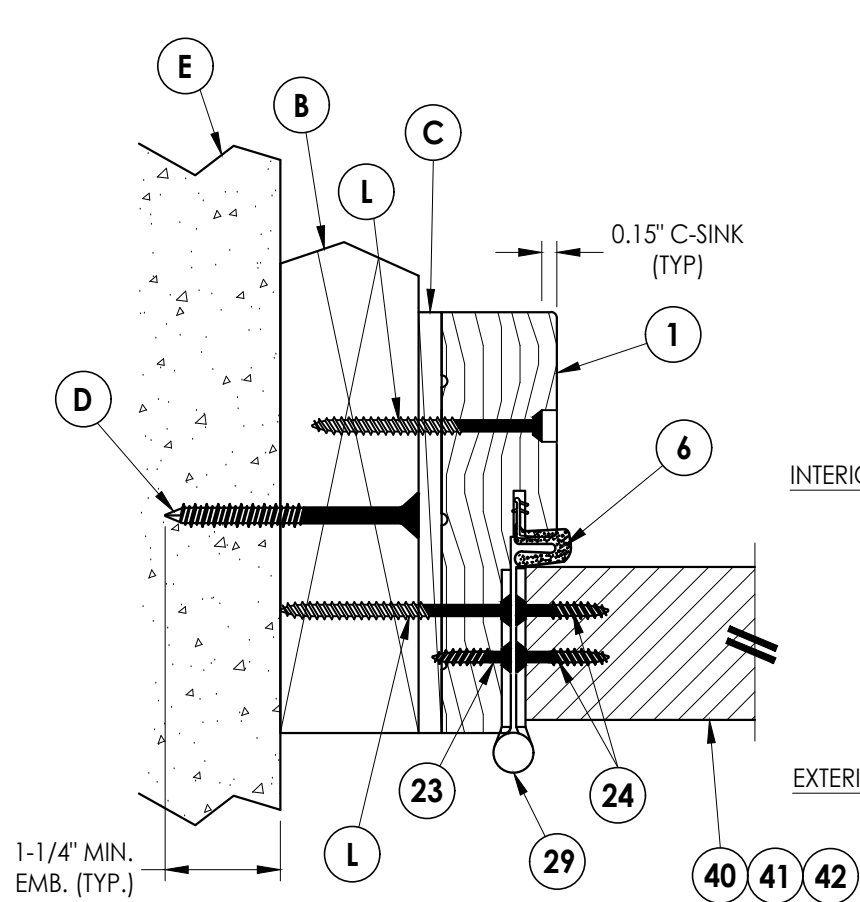


"TRADITIONS" Door Panel Options
Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

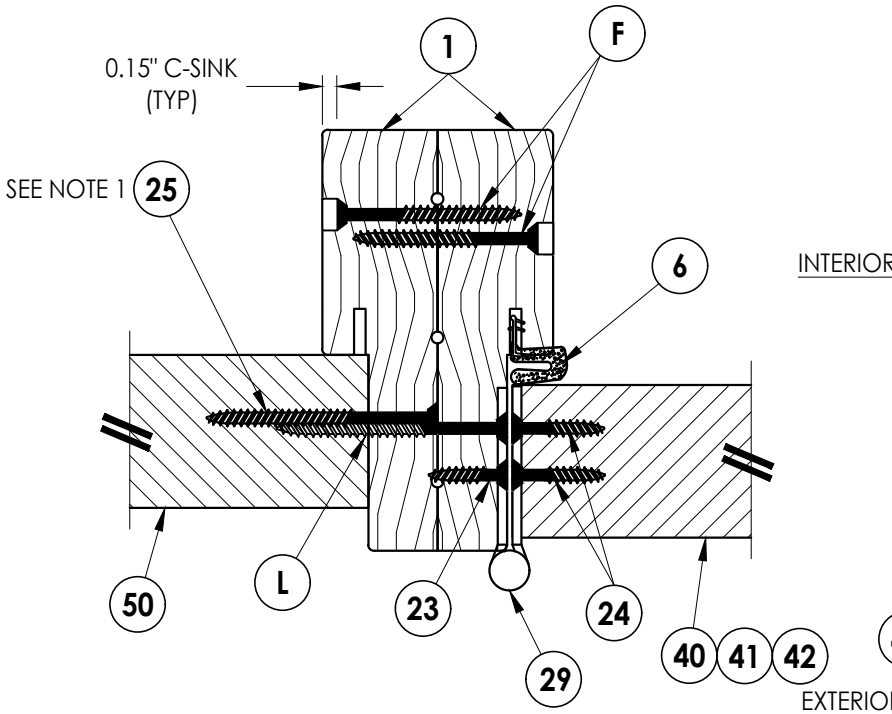
HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	Knob:	F51
	Deadbolt:	B60
KWIKSET	Knob:	SIGNATURE SERIES
	Deadbolt:	SIGNATURE SERIES (980)

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: ELEVATIONS		
			LFS	FBC	REVISIONS
			LFS	FBC	
			BY		
			NO.	DATE	
			2	8/07/23	UPDATE TO 8TH ED. (2023)
			1	7/20/20	UPDATE TO 7th ED (2020)
DATE: 10/12/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-21132.7					
SHEET 4 OF 13					

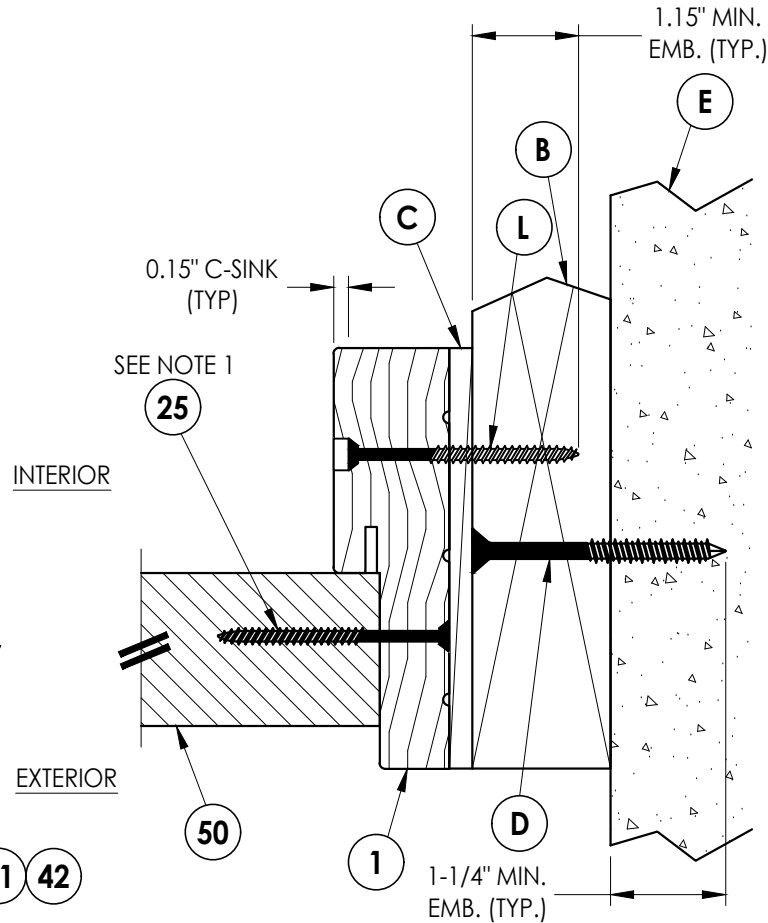
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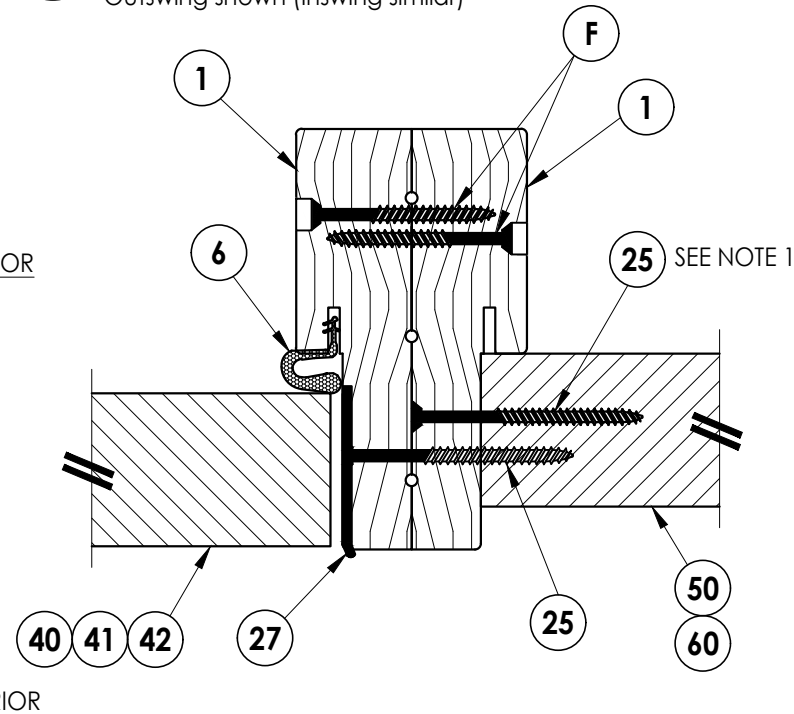
1 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



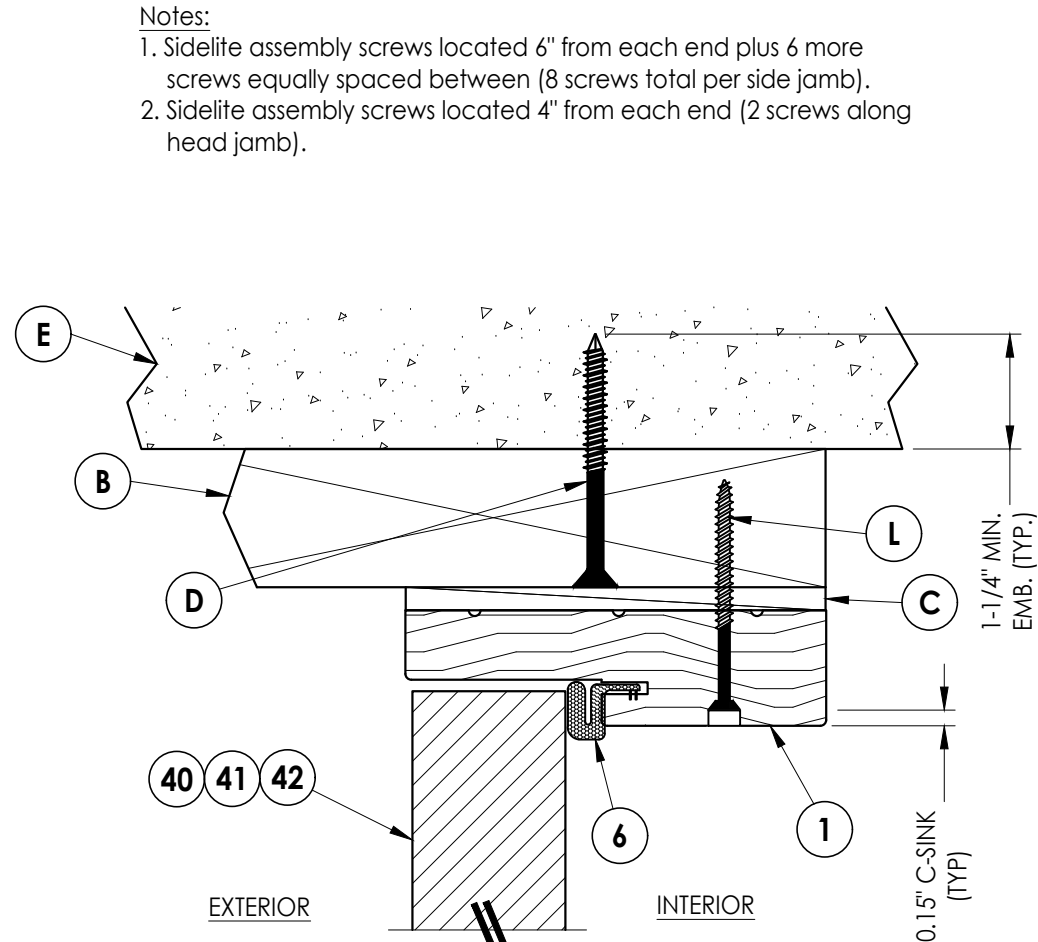
5 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



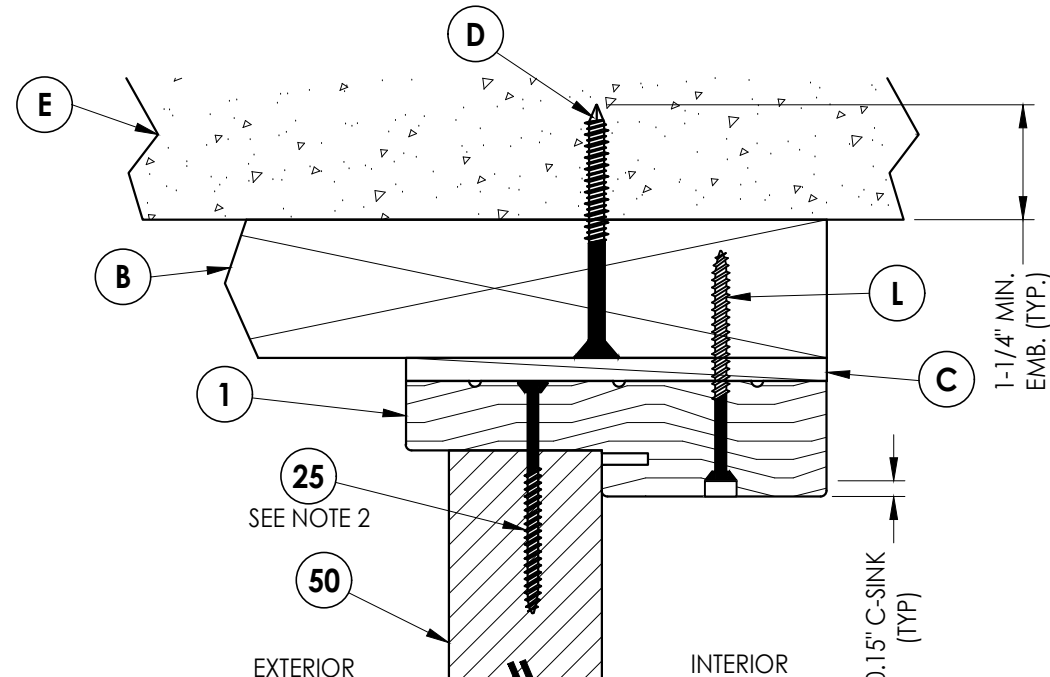
2 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



6 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



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



4 VERTICAL CROSS SECTION
5 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 4" from each end (2 screws along head jamb).

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:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC
1	7/20/20	UPDATE TO 7th ED (2020) FBC
1		BY

DATE: 10/12/17

SCALE: N.T.S.

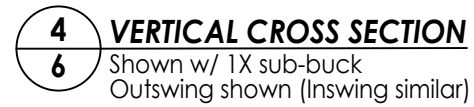
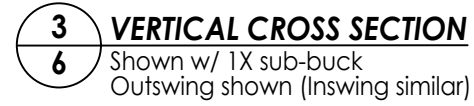
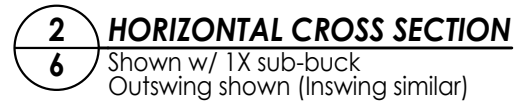
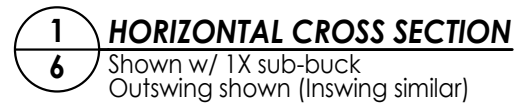
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CHK. BY: LFS

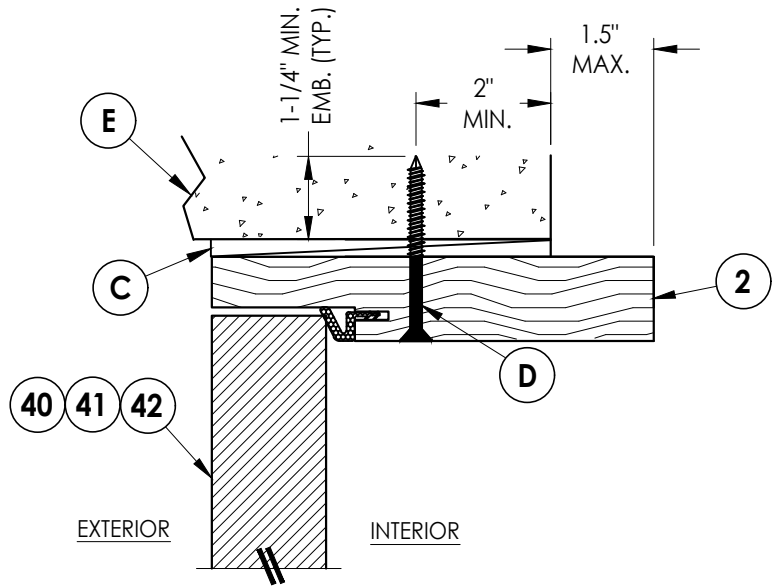
DRAWING NO.: FL-21132.7

SHEET 5 OF 13

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 4" from each end (2 screws along head jamb).

[illegible]

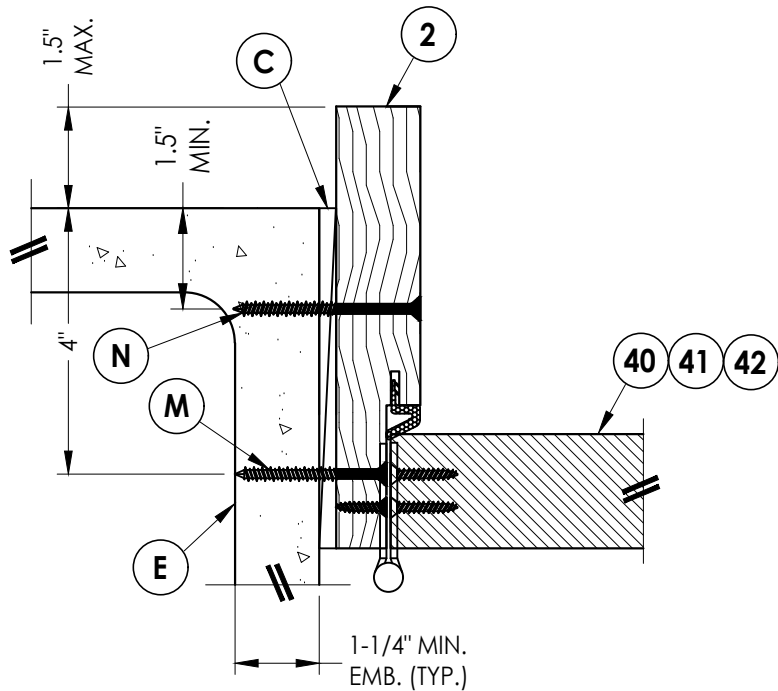
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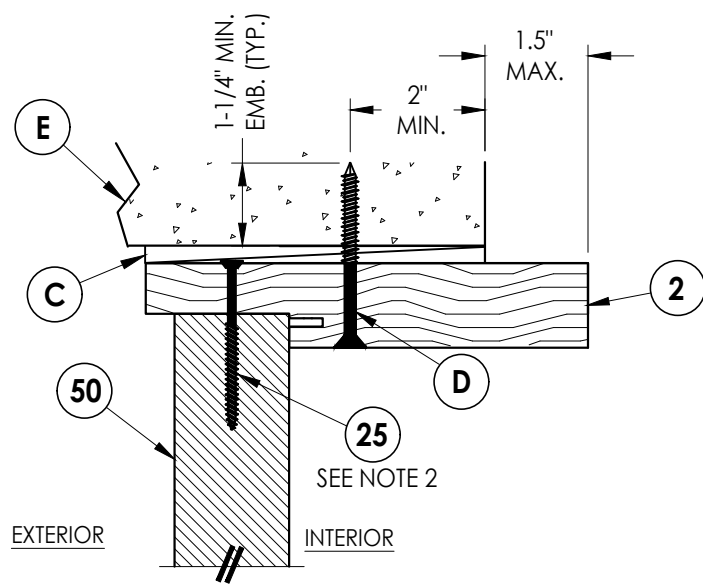
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7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Notes:

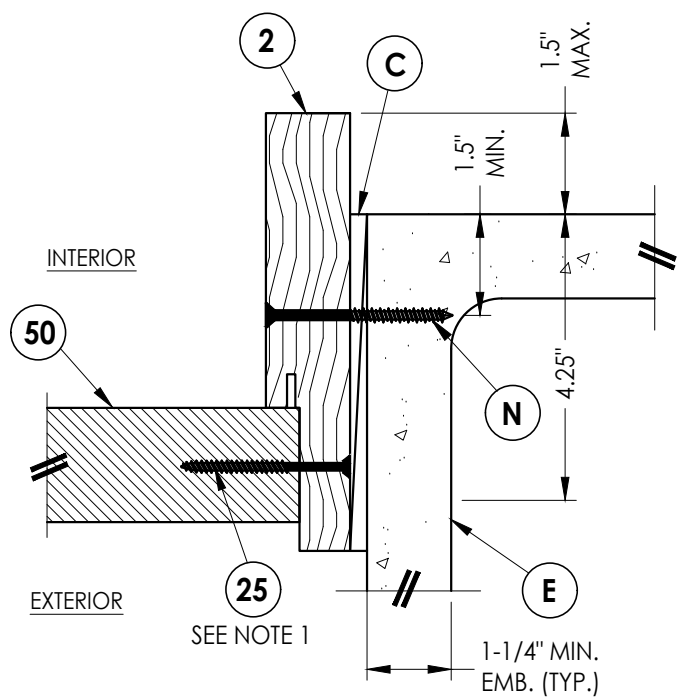
1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



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



3
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



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

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

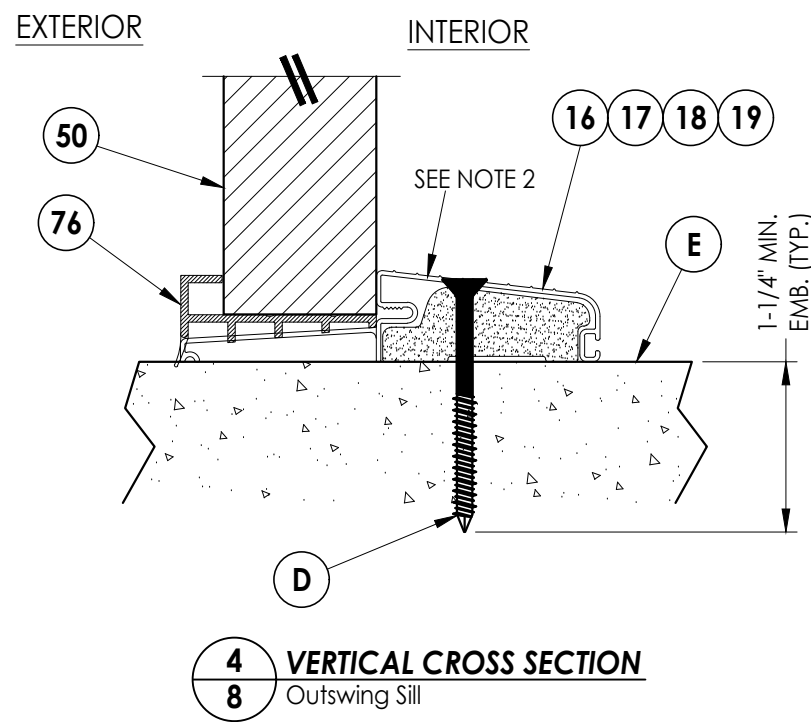
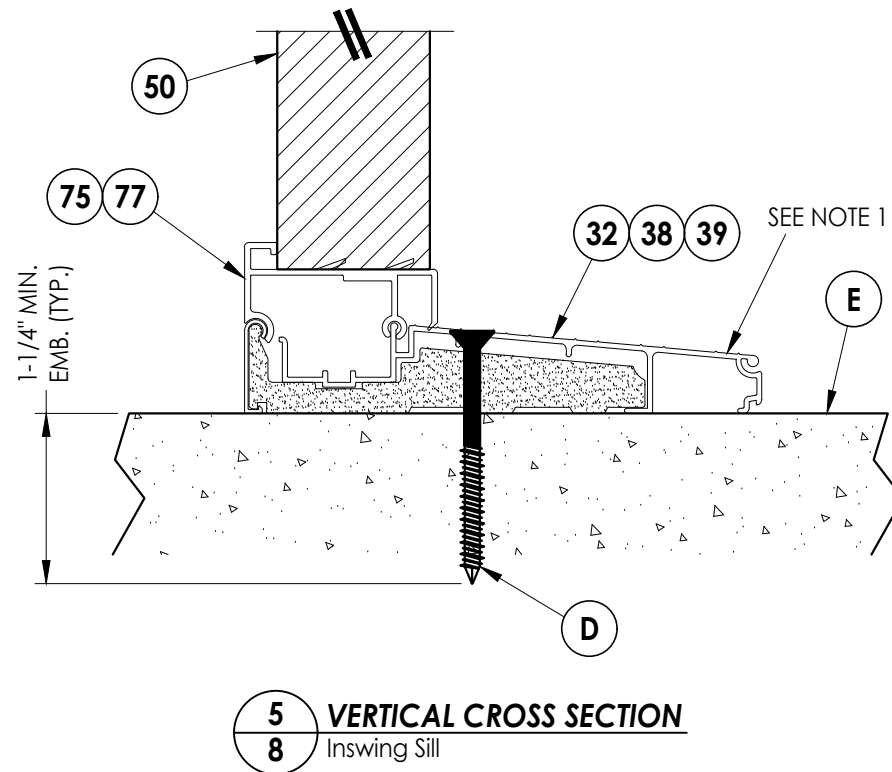
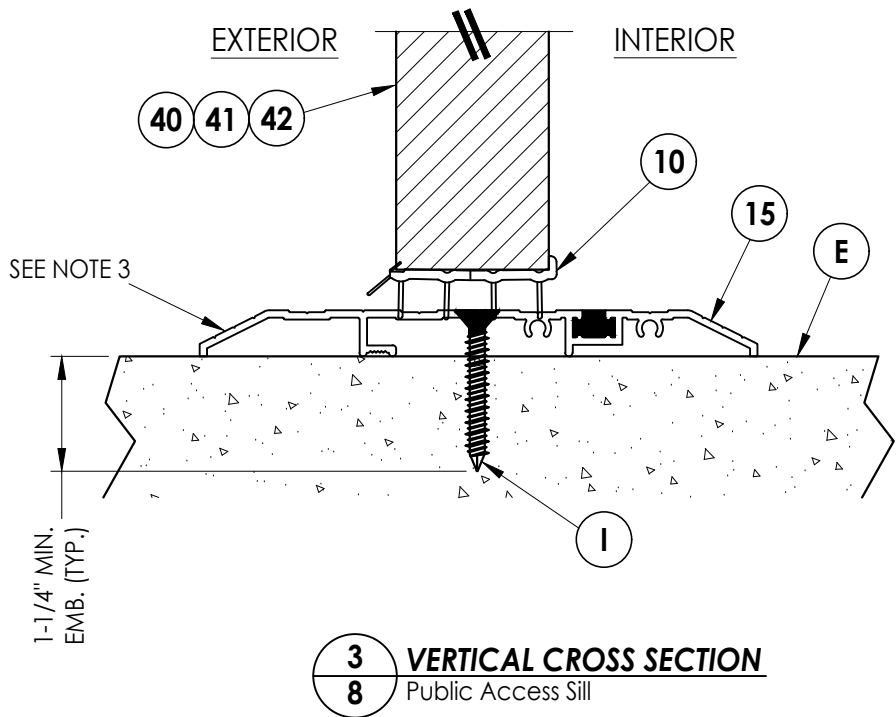
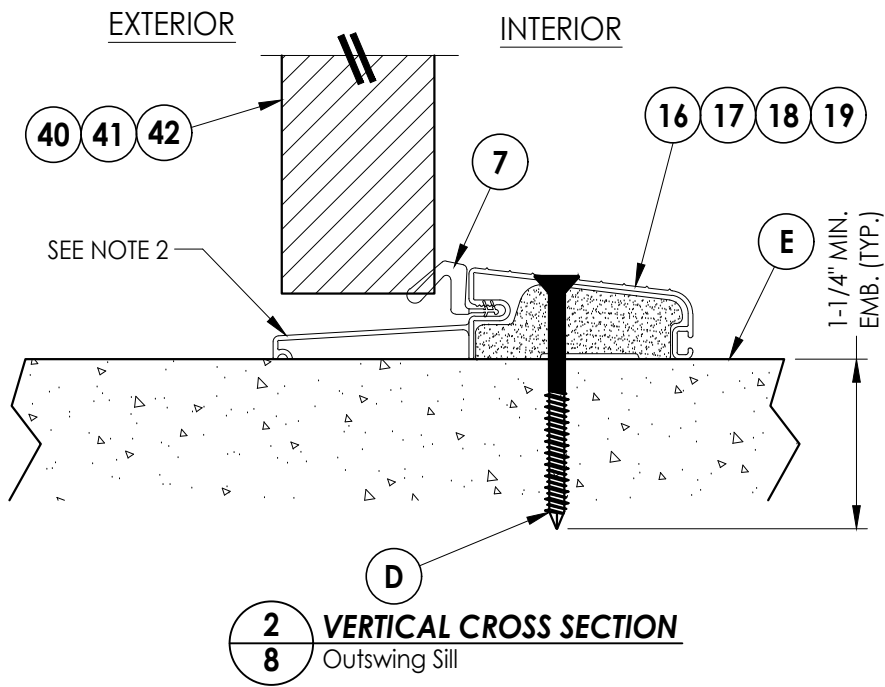
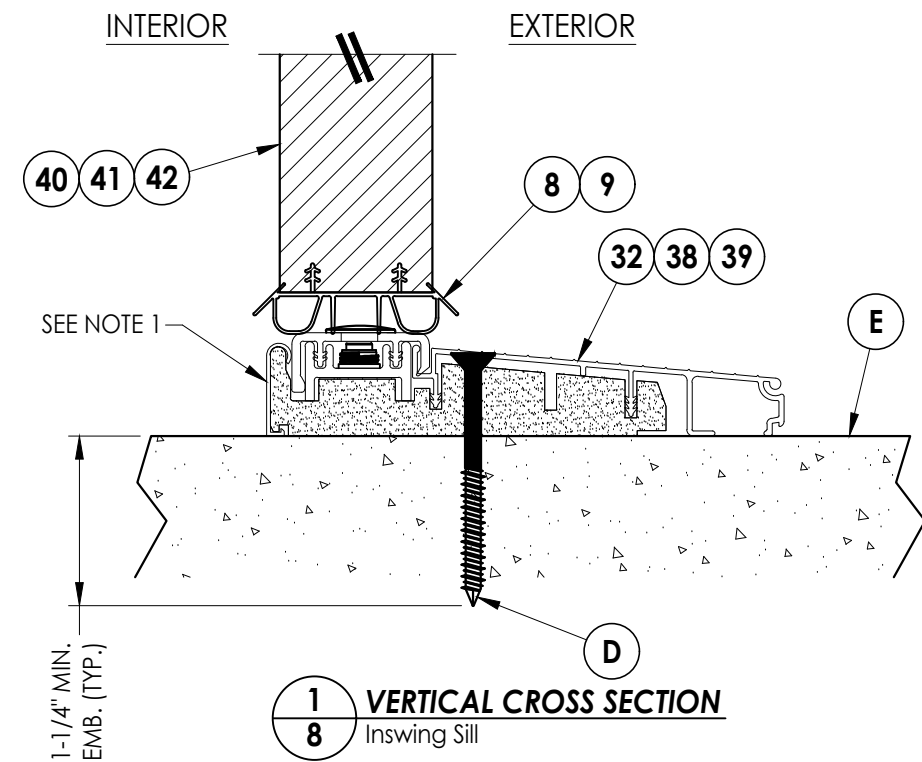
PRODUCT: THERMA-TRU STEEL DOOR
PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
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-21132.7
SHEET 7 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-21132 R2\FL-21132.6-8.dwg

- Notes:
- Sill Item #'s 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws or (3) 2.5" staples at each end.
 - Sill Item #'s 16, 17, 18 & 19 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 SMS at each end.



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

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

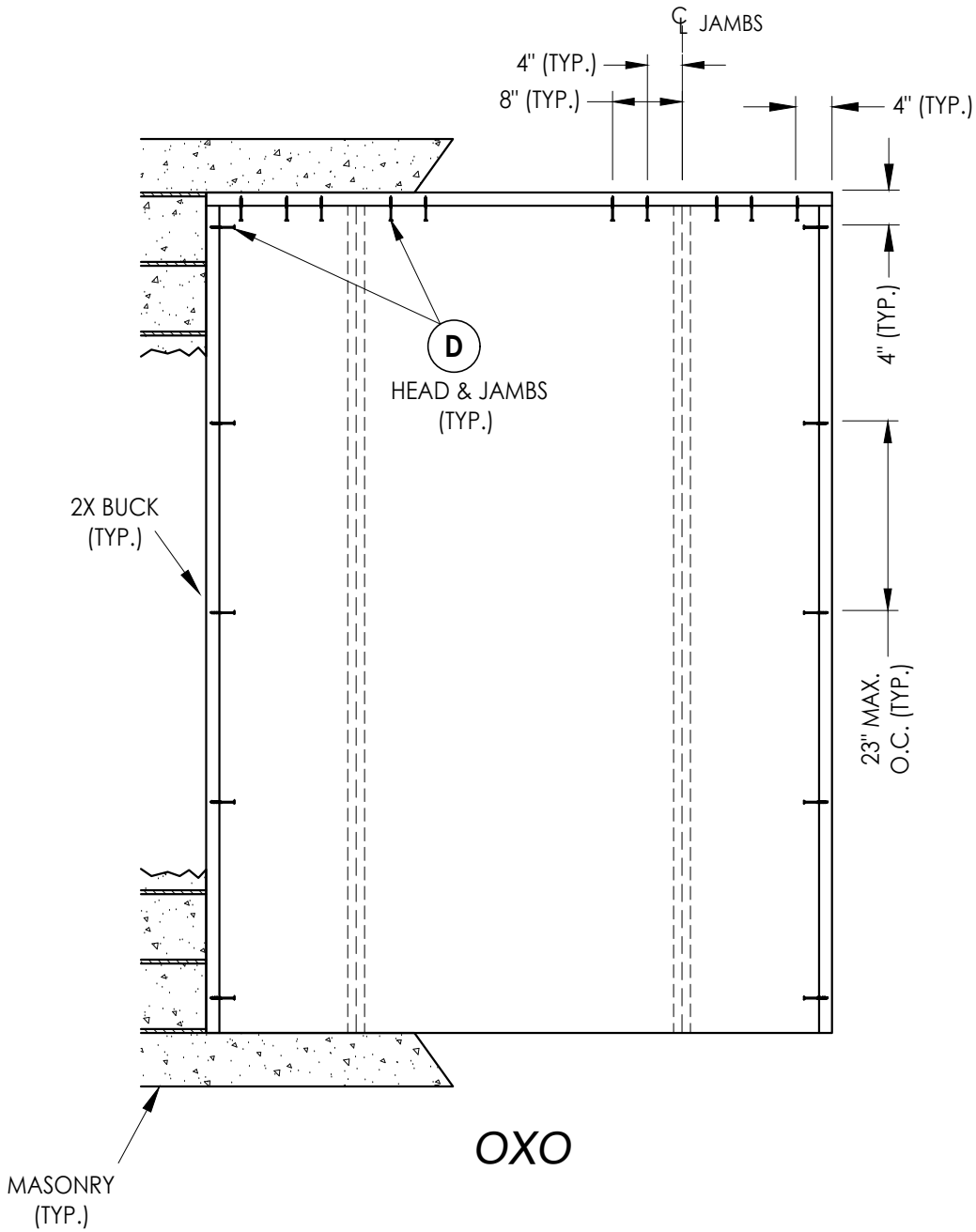
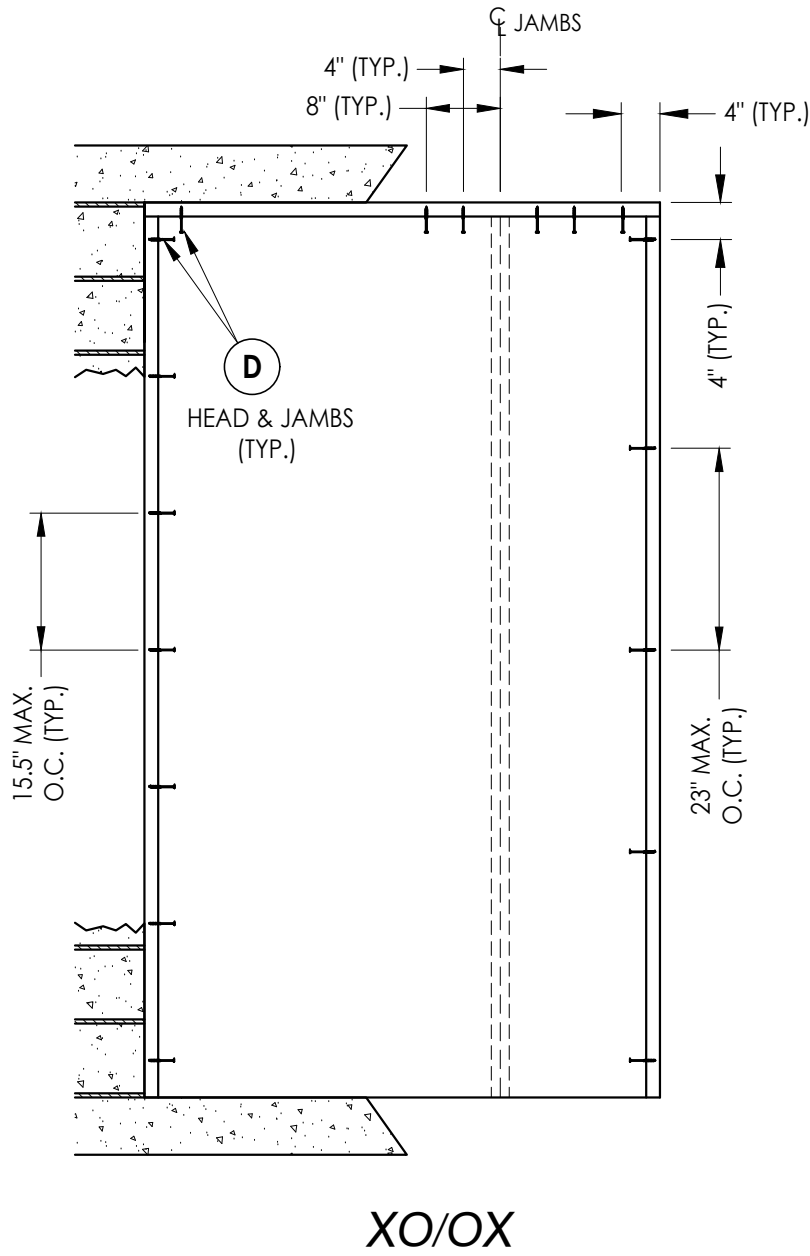
PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC
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-21132.7
SHEET 8 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-21132 R2\FL-21132.6-8.dwg



2X BUCK ANCHORING

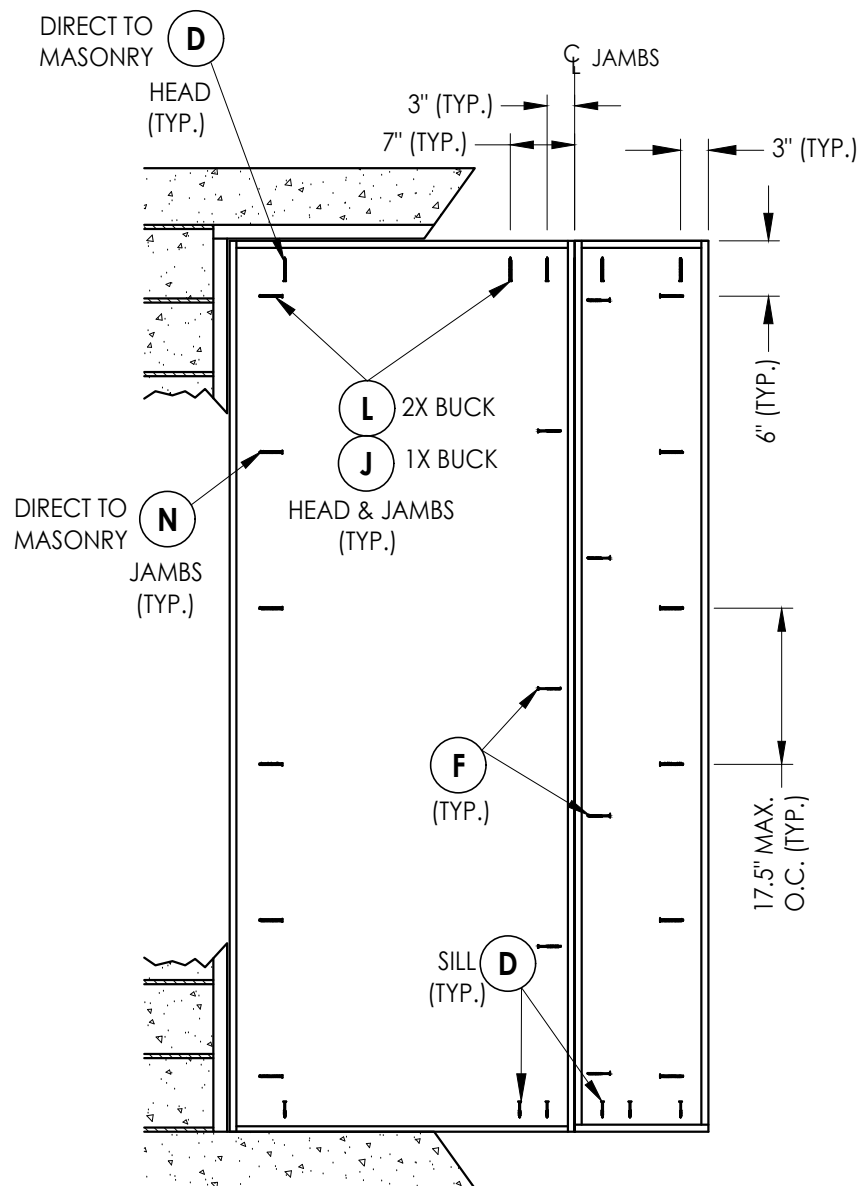
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10/12/17		2		8/07/23	
N.T.S.		1		7/20/20	
JK					
LFS					
FL-21132.7					
9					

PRODUCT:		PART OR ASSEMBLY:	
THERMA-TRU STEEL DOOR		BUCK ANCHORING	

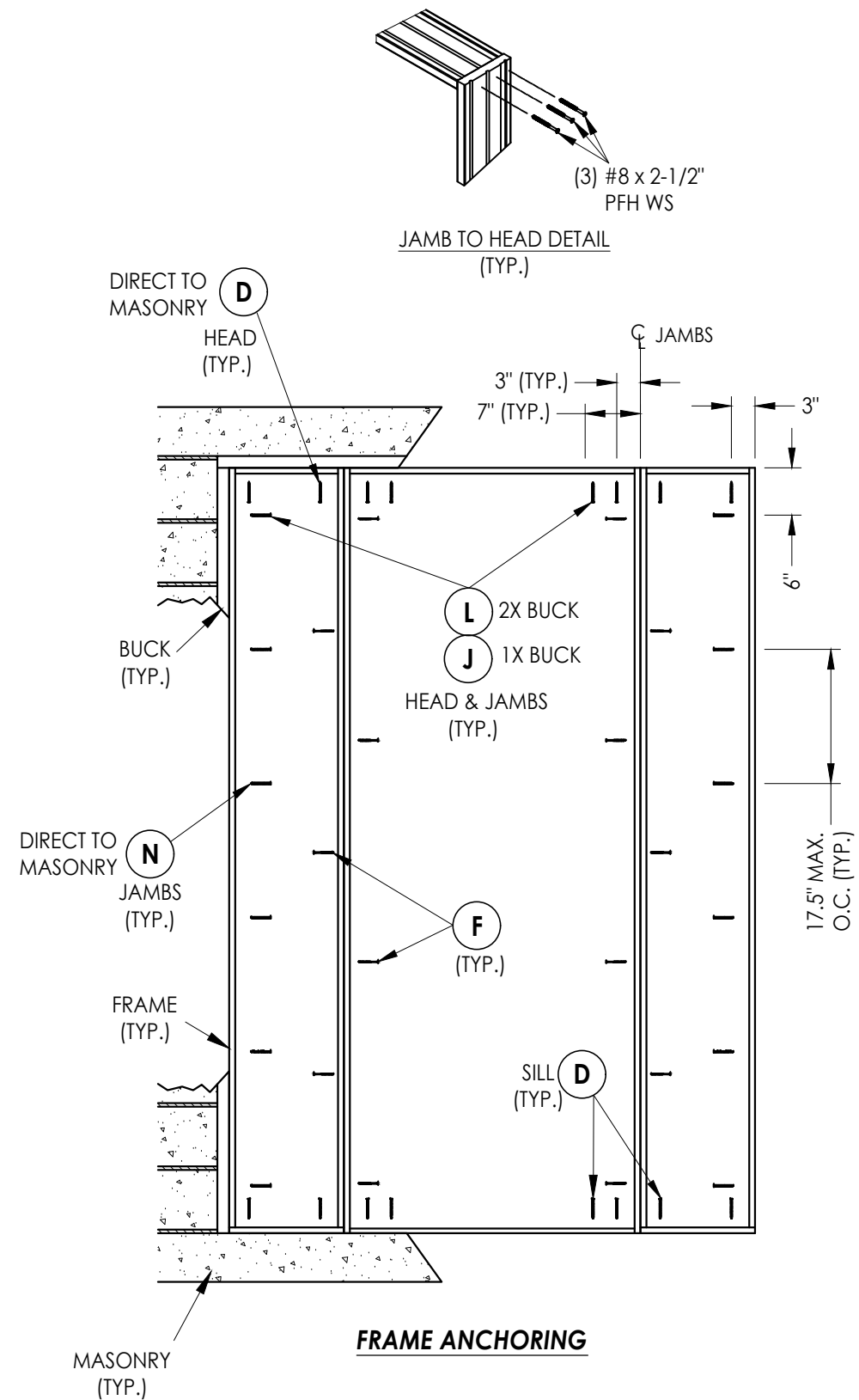
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW

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



FRAME ANCHORING



FRAME ANCHORING

FRAME ANCHORING

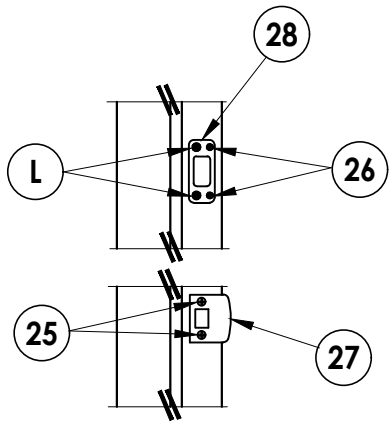
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1	7/20/20	UPDATE TO 7th ED (2020)	FBC	LFS	
NO.	DATE			BY	
					REVISIONS

DATE:	10/12/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21132.7
SHEET	10 OF 13

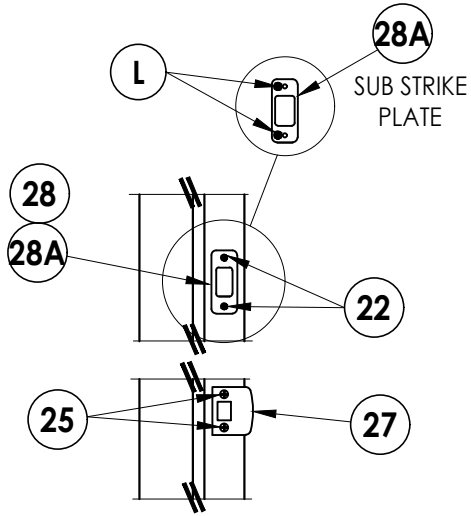
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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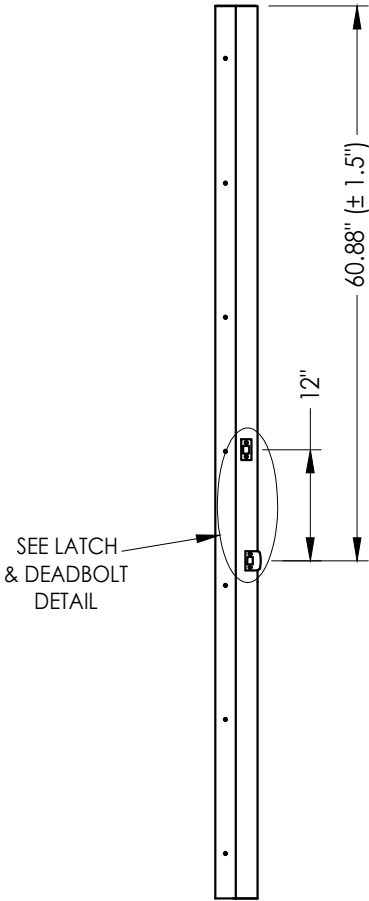


LATCH & DEADBOLT DETAIL
Kwikset

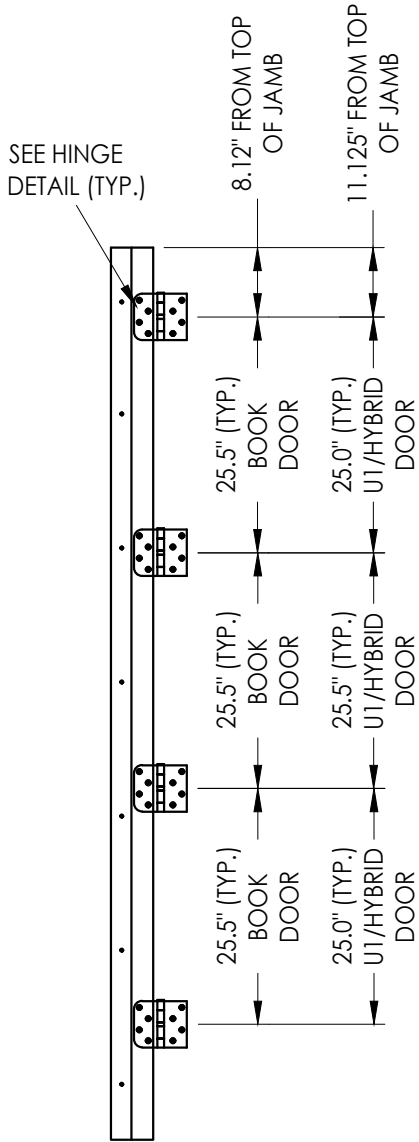


LATCH & DEADBOLT DETAIL
Schlage

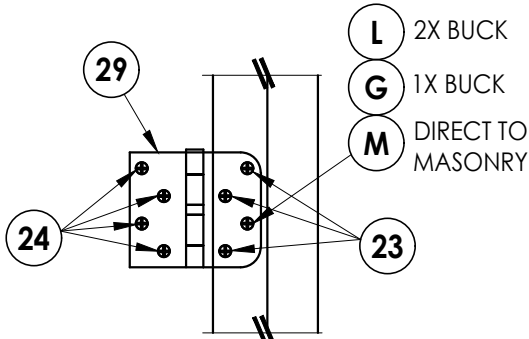
LATCH & DEADBOLT STRIKE DETAILS



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



HINGE DETAIL

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		HARDWARE DETAILS	
NO.	DATE	REVISIONS	
		LFS	BY
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC
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.:

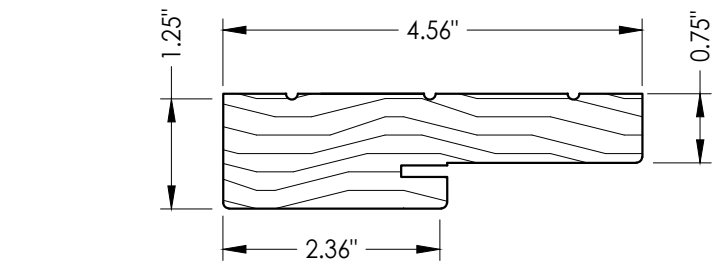
FL-21132.7

SHEET 11 OF 13

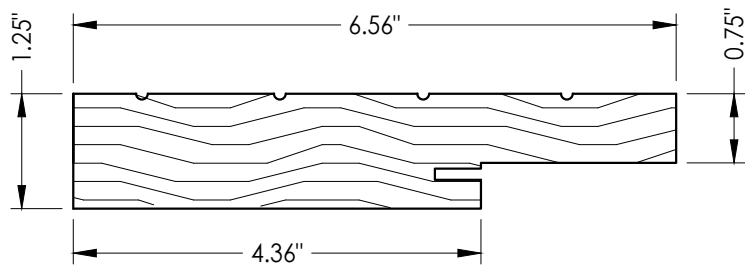
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

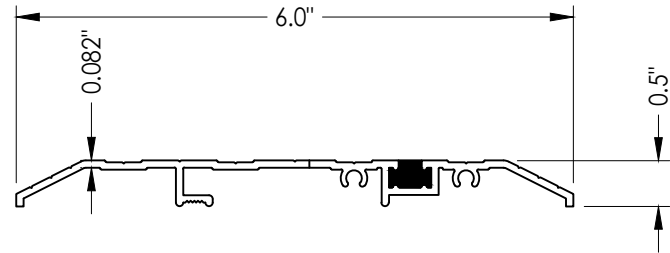
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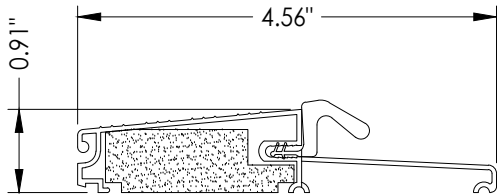
1 WOOD JAMB



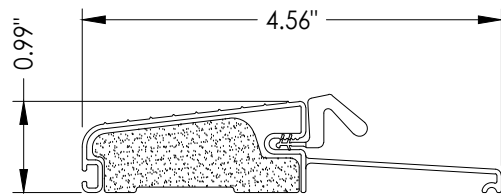
2 WOOD JAMB



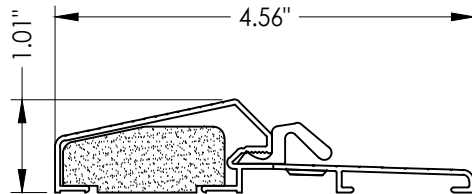
15 PUBLIC ACCESS THRESHOLD



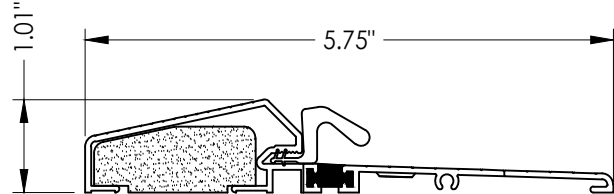
19 OUTSWING THRESHOLD
Composite Sill



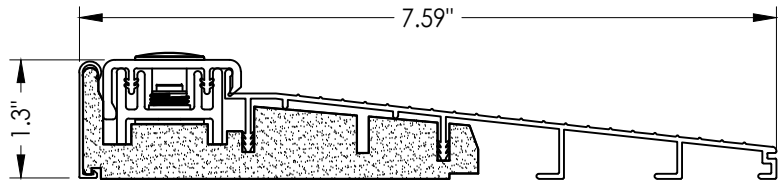
16 OUTSWING THRESHOLD
Composite Sill



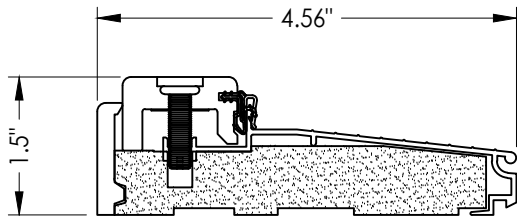
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



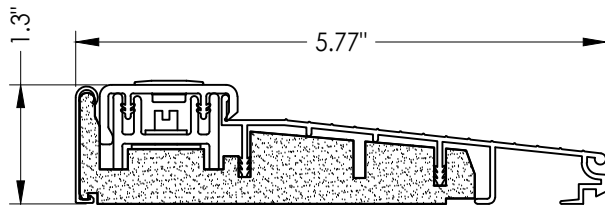
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



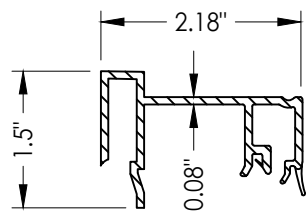
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



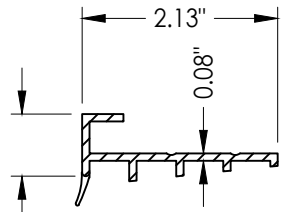
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



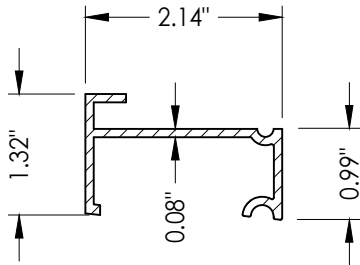
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



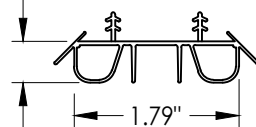
75 SIDELITE SPACER
Inswing



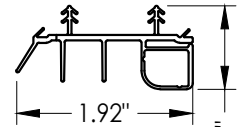
76 SIDELITE SPACER
Outswing



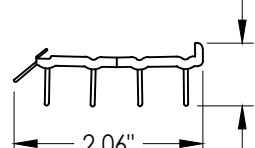
77 SIDELITE SPACER
Inswing



8 SWEEP



9 SWEEP



10 SWEEP

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:

COMPONENTS

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC
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-21132.7
SHEET	12 OF 13

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2" PFH WOOD SCREW	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/2" X 1" X 25 GA. CORRUGATED FASTENER	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
1	JAMB (FINGER JOINT PINE)	WOOD
2	JAMB (FINGER JOINT PINE)	WOOD
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
8	SWEEP	VINYL
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP
19	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

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
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

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"
DeWALT 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		SHEET 13 OF 13	
DRAWING NO.: FL-21132.7		CHK. BY: LFS	
DWG. BY: JK		SCALE: N.T.S.	
NO. DATE		REVISONS	
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/20/20	UPDATE TO 7th ED (2020)	FBC
PART OR ASSEMBLY:		BILL OF MATERIALS	
PRODUCT:		THERMA-TRU STEEL DOOR	
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	