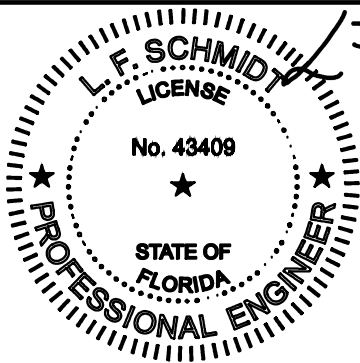




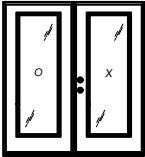
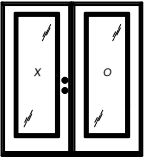
Profiles™ & Traditions



Digitally signed by Lyndon F Schmidt
Date: 2023.08.17 15:41:33 -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

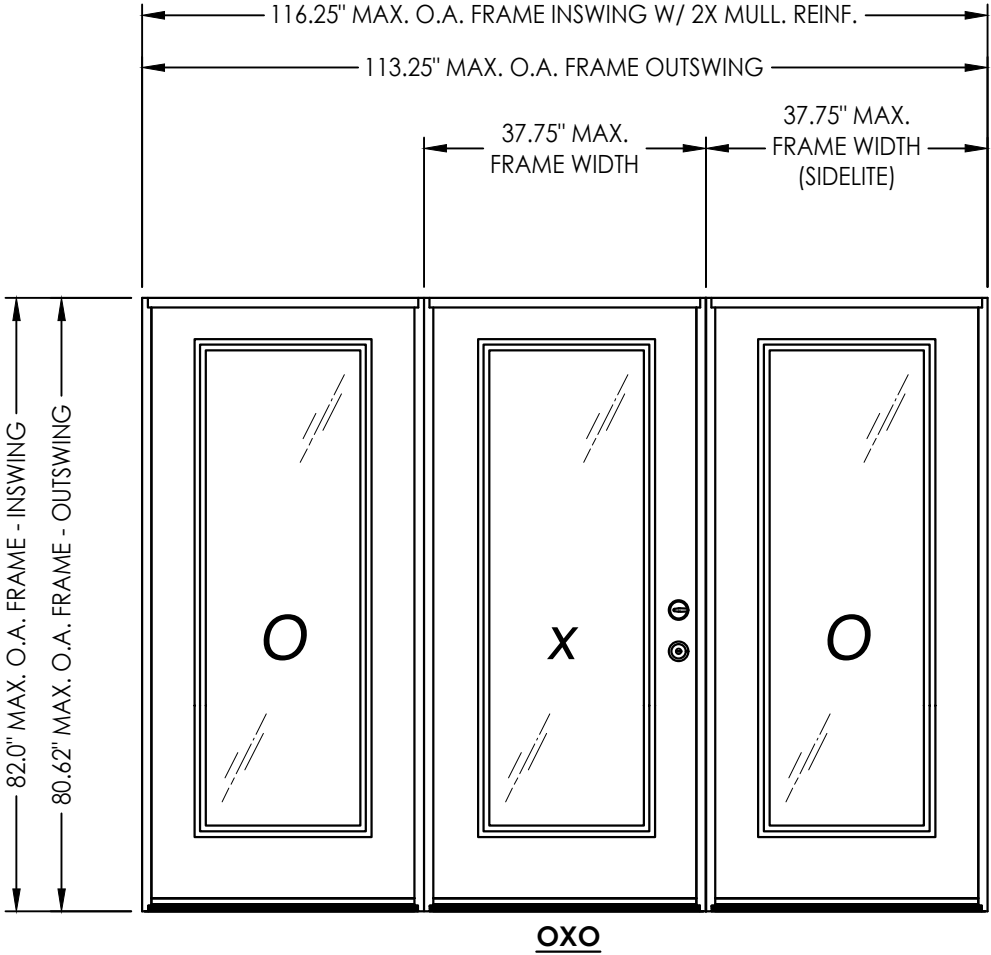
OXXO

**WOOD EDGE
GLAZED STEEL SINGLE DOOR
w/ SIDELITE(S)
INSWING/OUTSWING
"IMPACT"**

GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) Florida Building Code (FBC) 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" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" 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 E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
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.

TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes	10	Vertical Cross Sections (Thresholds)
2	Door Panel Details "Profiles"	11	Buck Anchoring
3	Door Panel Details "Traditions"	12	Frame Anchoring
4	Sidelite Panel Details	13	Frame Anchoring
5	Elevations	14	Hardware Details
6	Horizontal Cross Sections	15	Glazing Details
7	Horizontal & Vertical Cross Sections (2X Buck)	16	Components
8	Horizontal & Vertical Cross Sections (1X Buck)	17	Bill of Materials
9	Horizontal & Vertical Cross Sections (Direct to Masonry)		



CONFIGURATION	SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
XO, OX	INSWING	76.50" x 82.0"	+47.0	-53.0
XO, OX	OUTSWING	75.0" x 80.62"	+50.0	-50.0
OXO	INSWING	116.25" x 82.0"	+47.0	-53.0
OXO	OUTSWING	113.25" x 80.62"	+50.0	-50.0

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

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

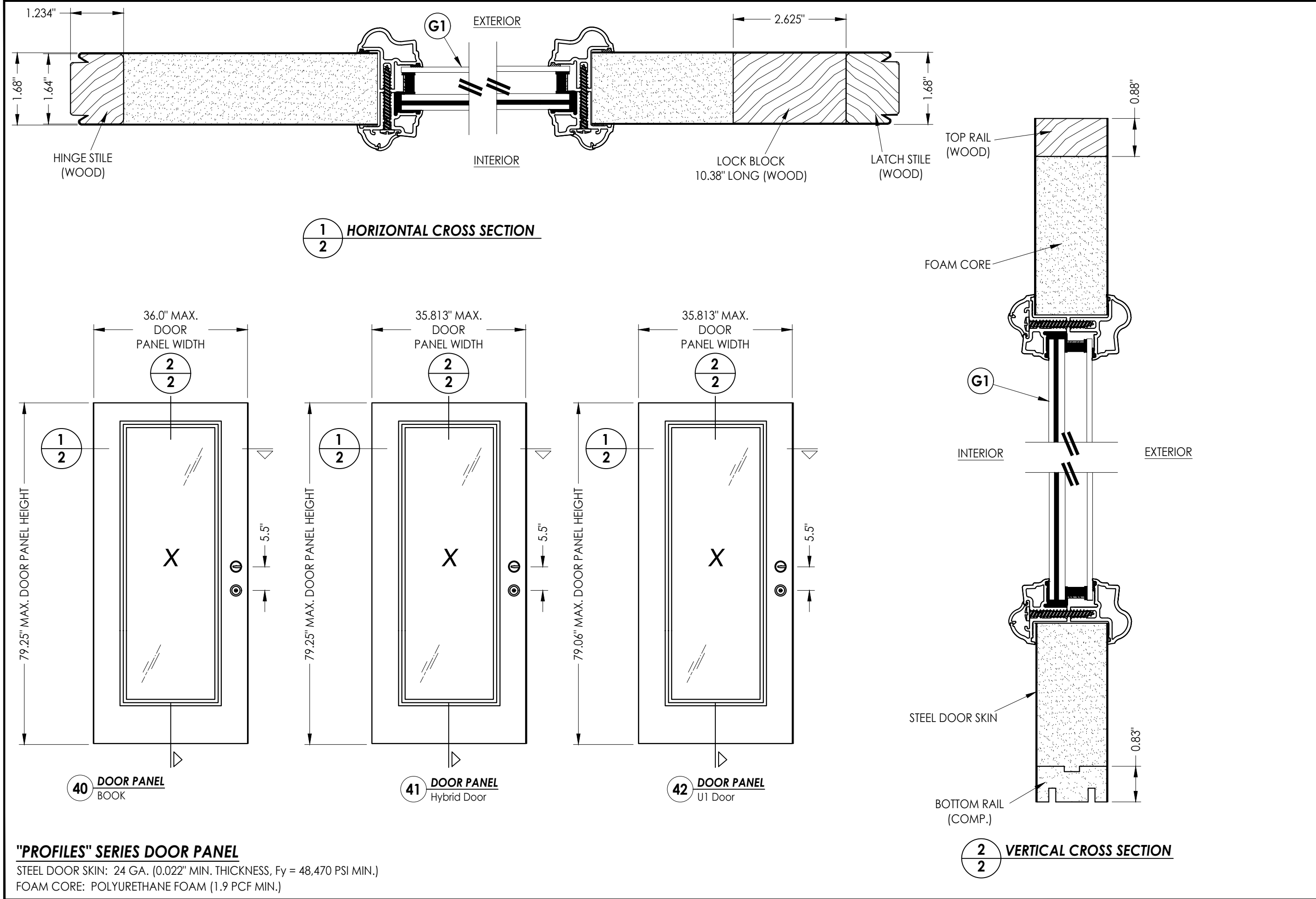
PRODUCT: THERMA-TRU
STEELE DOOR

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

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

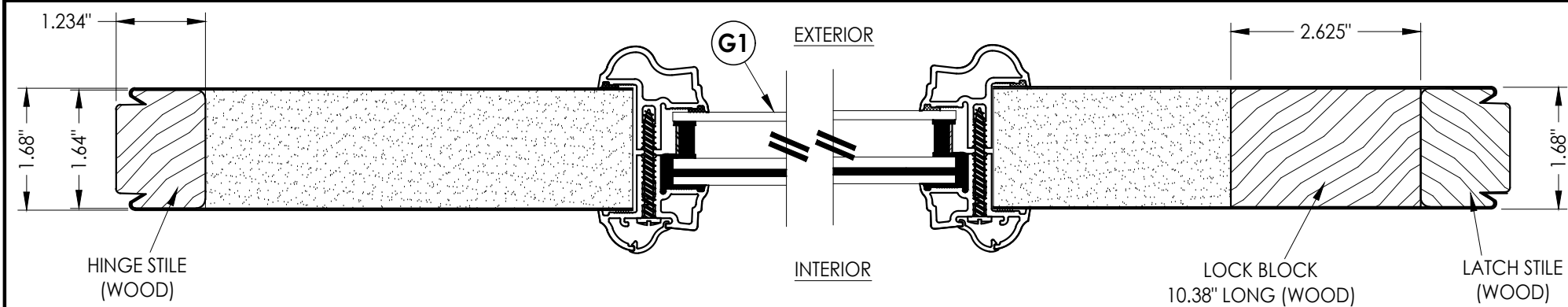
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-23507.10
SHEET	1 OF 17

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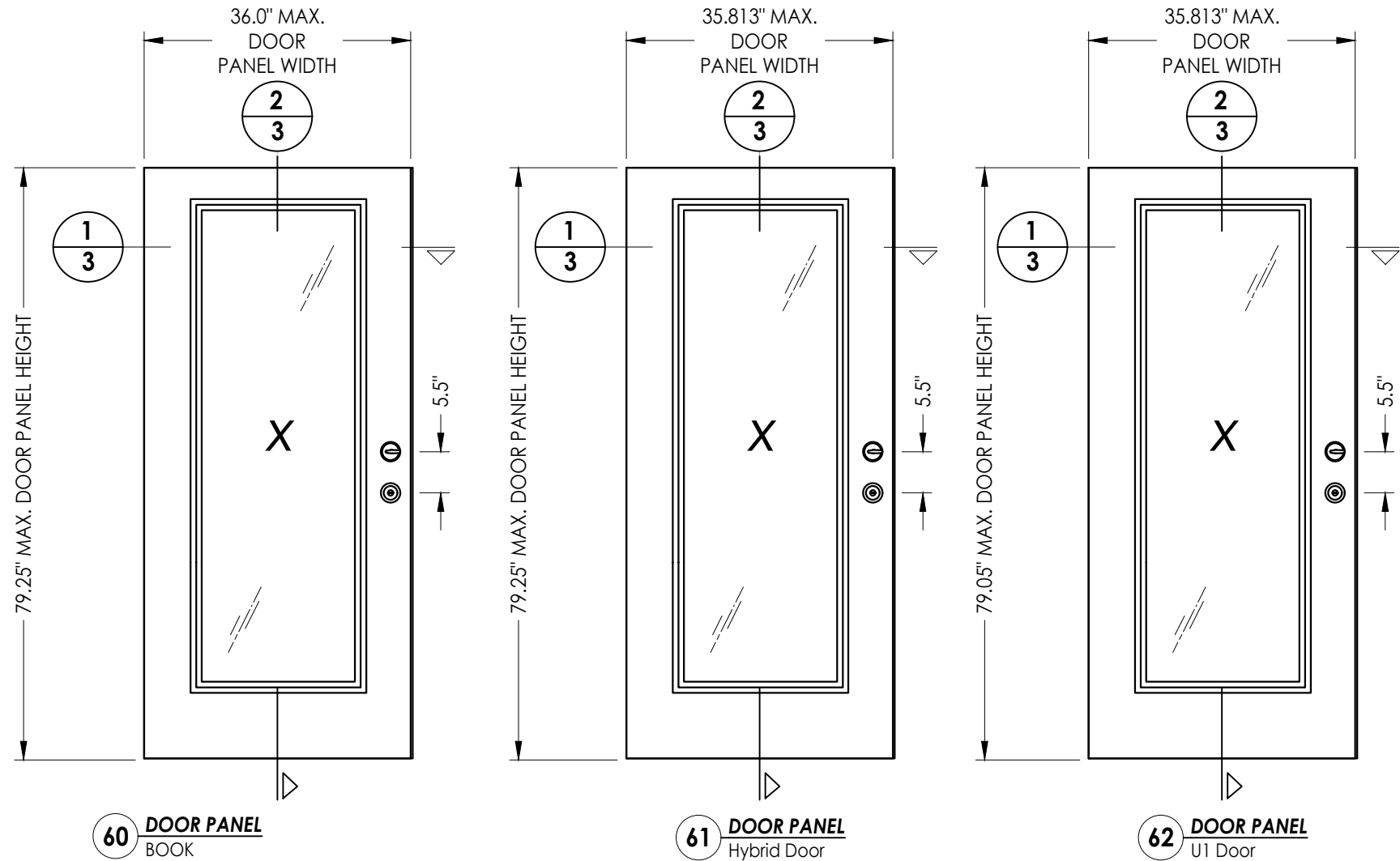


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: THERMA-TRU STEEL DOOR				PART OR ASSEMBLY: "PROFILES" DOOR PANEL DETAILS			

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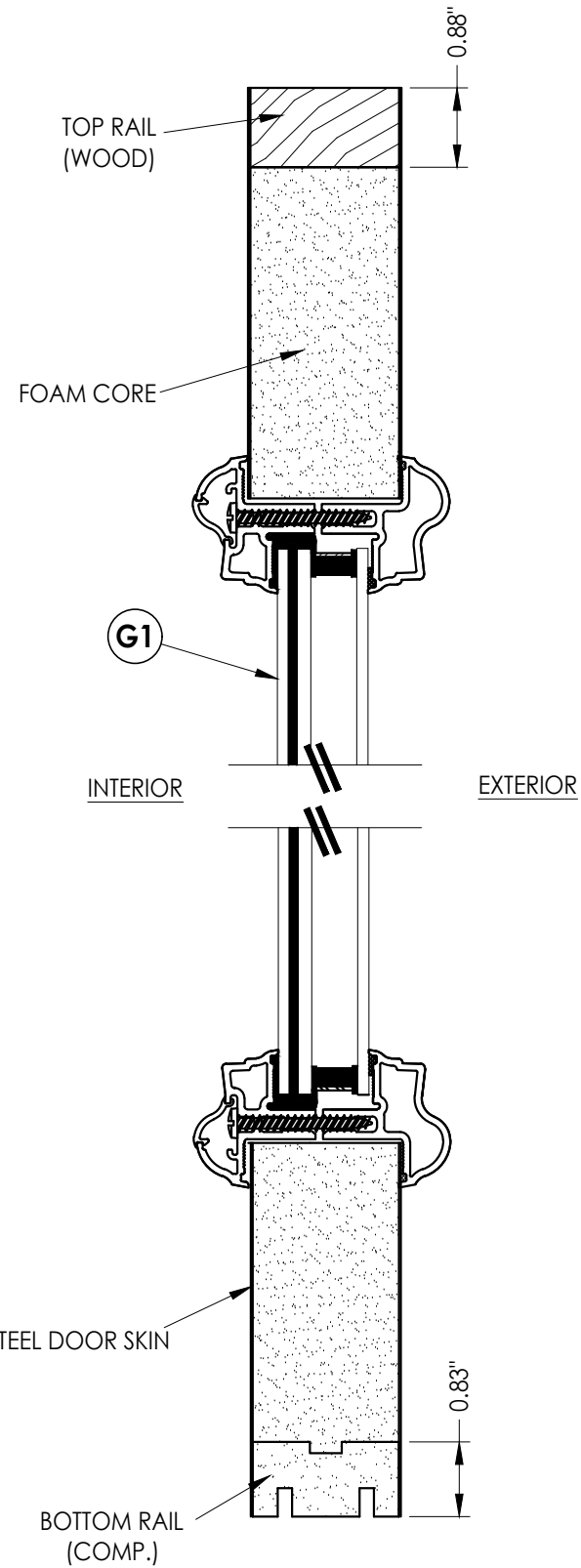


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3 HORIZONTAL CROSS SECTION



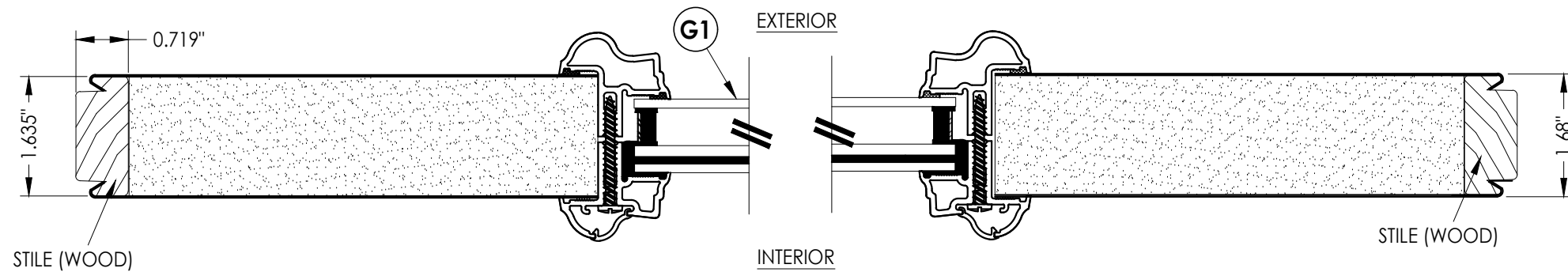
"TRADITIONS" SERIES DOOR PANEL

STEEL DOOR SKIN: 25 GA. (0.018" MIN. THICKNESS, Fy = 27,830 PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

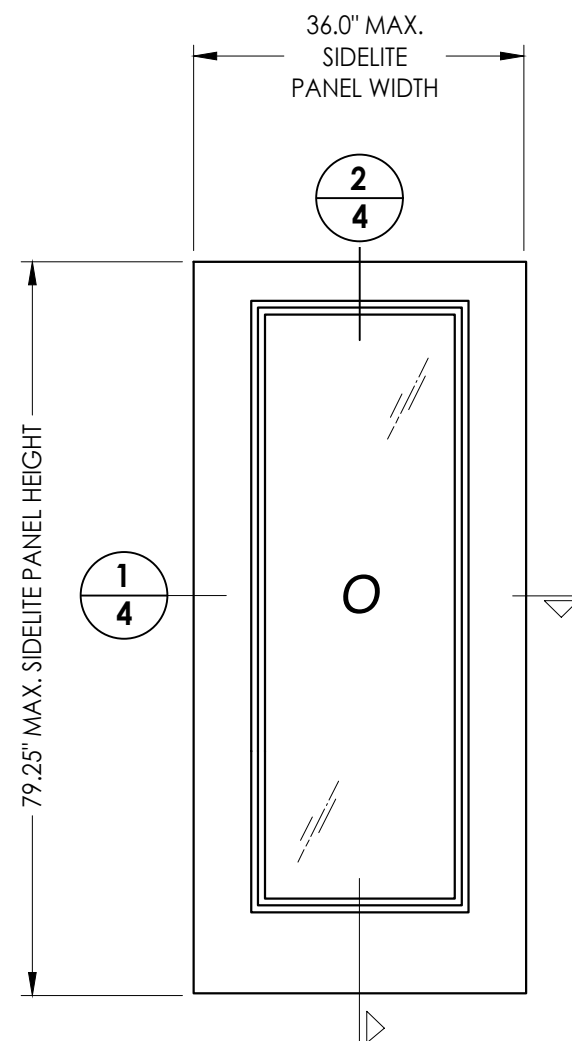


2
3 VERTICAL CROSS SECTION

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					
				LFS	FBC		
				2	8/17/23	UPDATE TO 8TH ED. (2023)	
				1	7/15/20	UPDATE TO 7th ED (2020)	
				NO.	DATE		
							REVISIONS
DATE: 10/12/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-23507.10							
SHEET 3 OF 17							



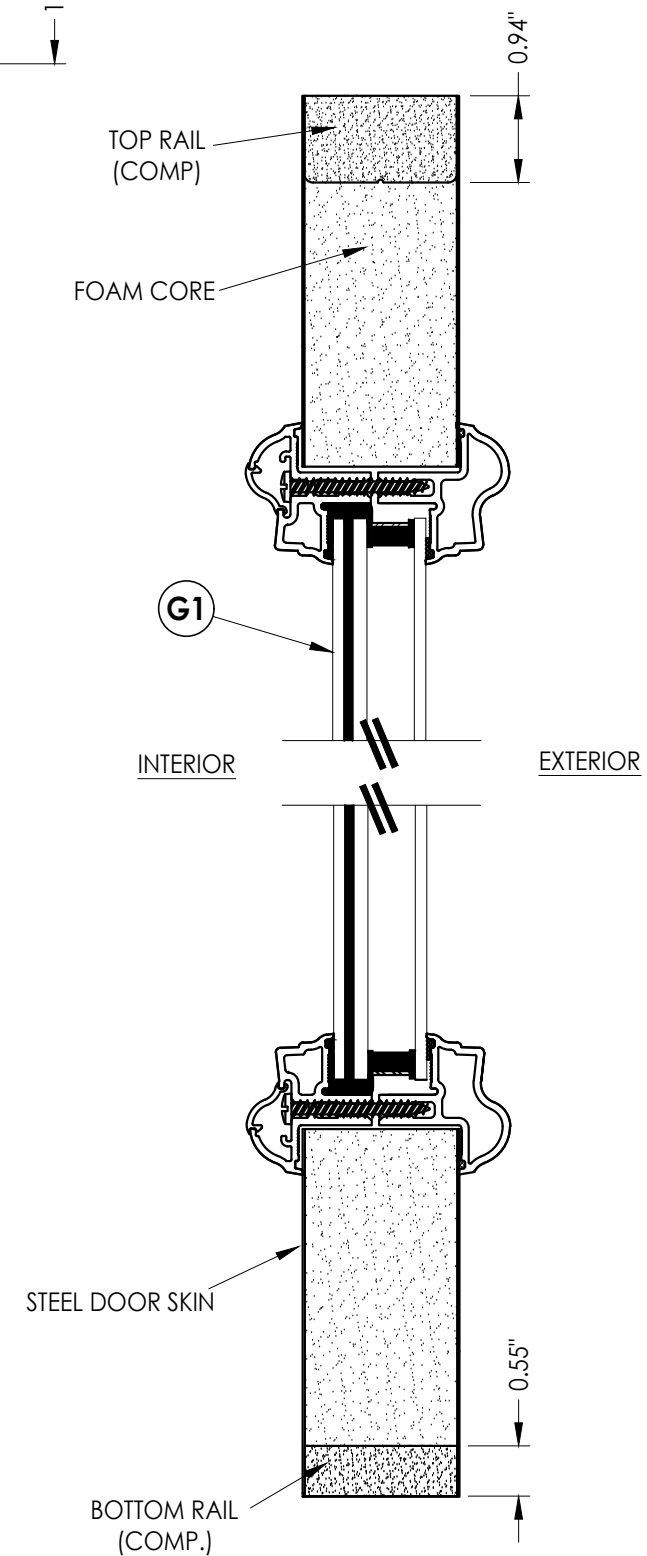
1 **HORIZONTAL CROSS SECTION**
4



50 SIDELITE PANEL

SIDELITE PANEL

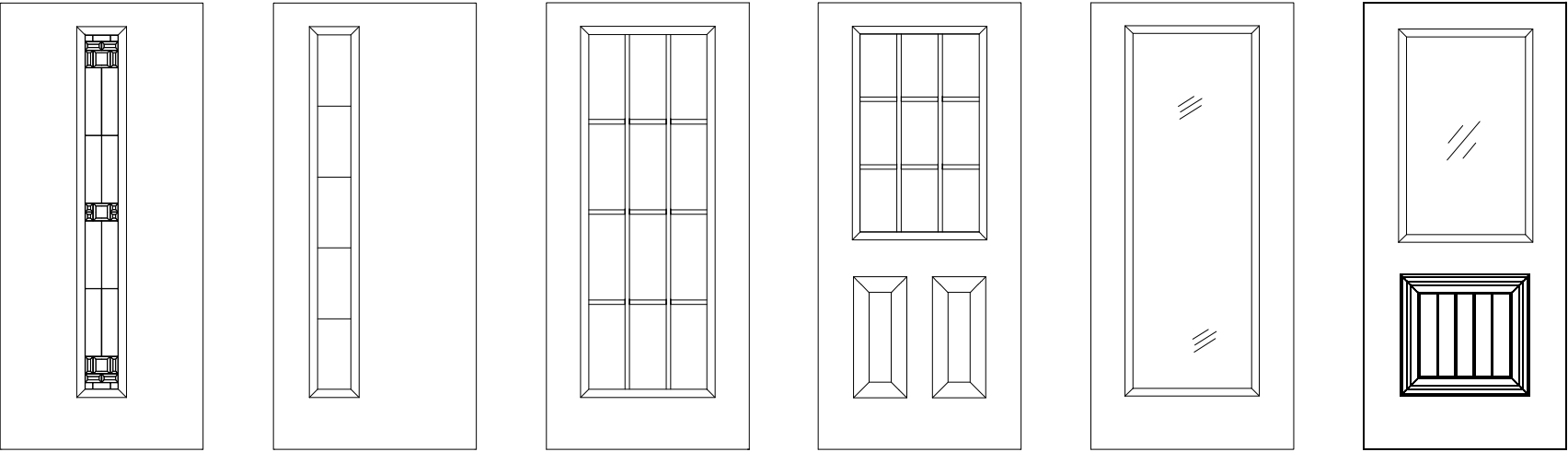
STEEL SKIN "PROFILES": 24 GA. (0.022" MIN. THICKNESS, $F_y = 48,470$ PSI MIN.)
STEEL SKIN "TRADITIONS": 25 GA. (0.018" MIN. THICKNESS, $F_y = 27,830$ PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)



2
4 **VERTICAL CROSS SECTION**

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PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: SIDELITE PANEL / GLAZING DETAILS	
			LFS
			RW
			BY
			REVISIONS
	2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
	1	2/23/20	UPDATE TO 2014 FBC (2020) FBC
	NO.	DATE	
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-23507.10			
SHEET 4 OF 17			

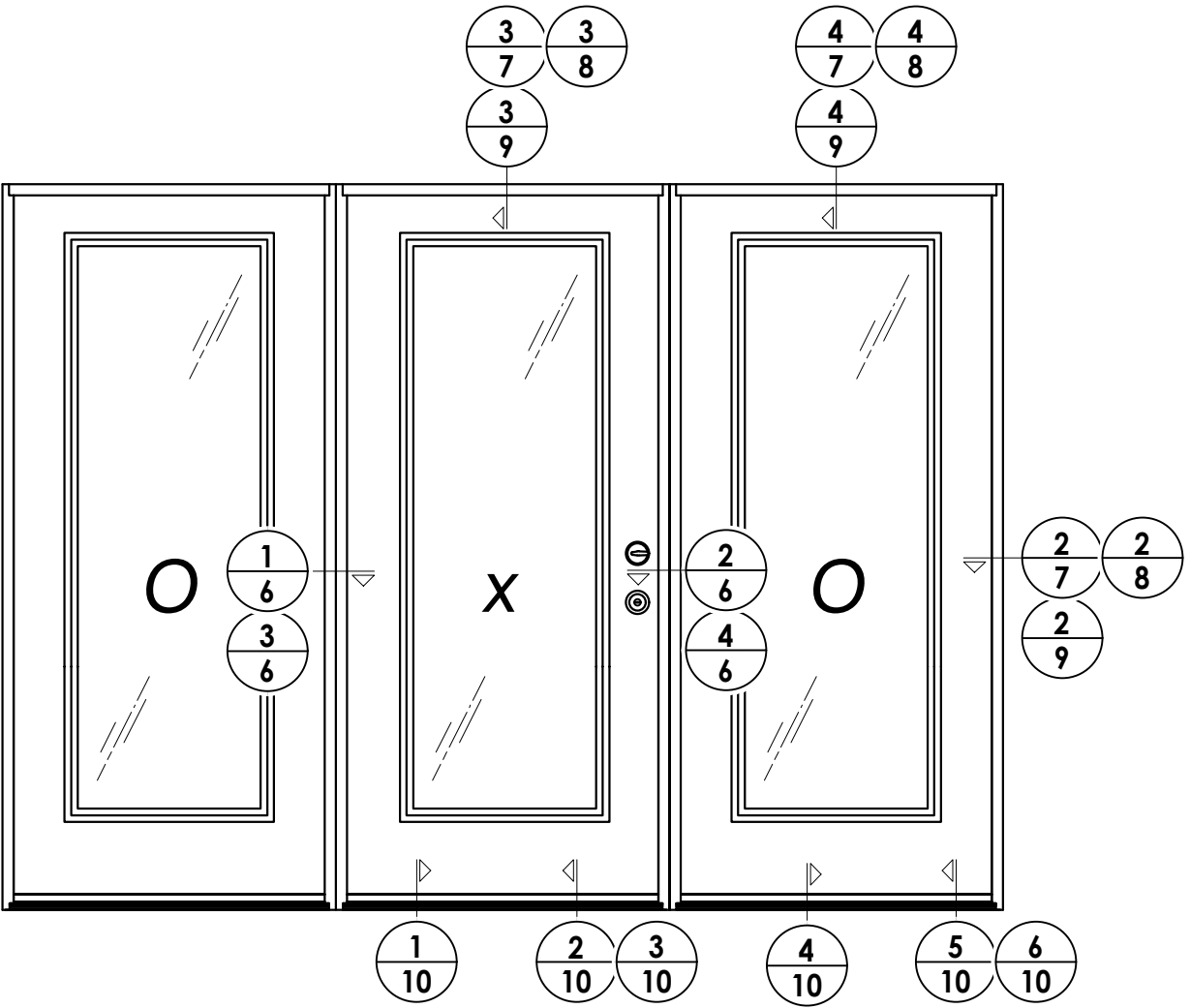
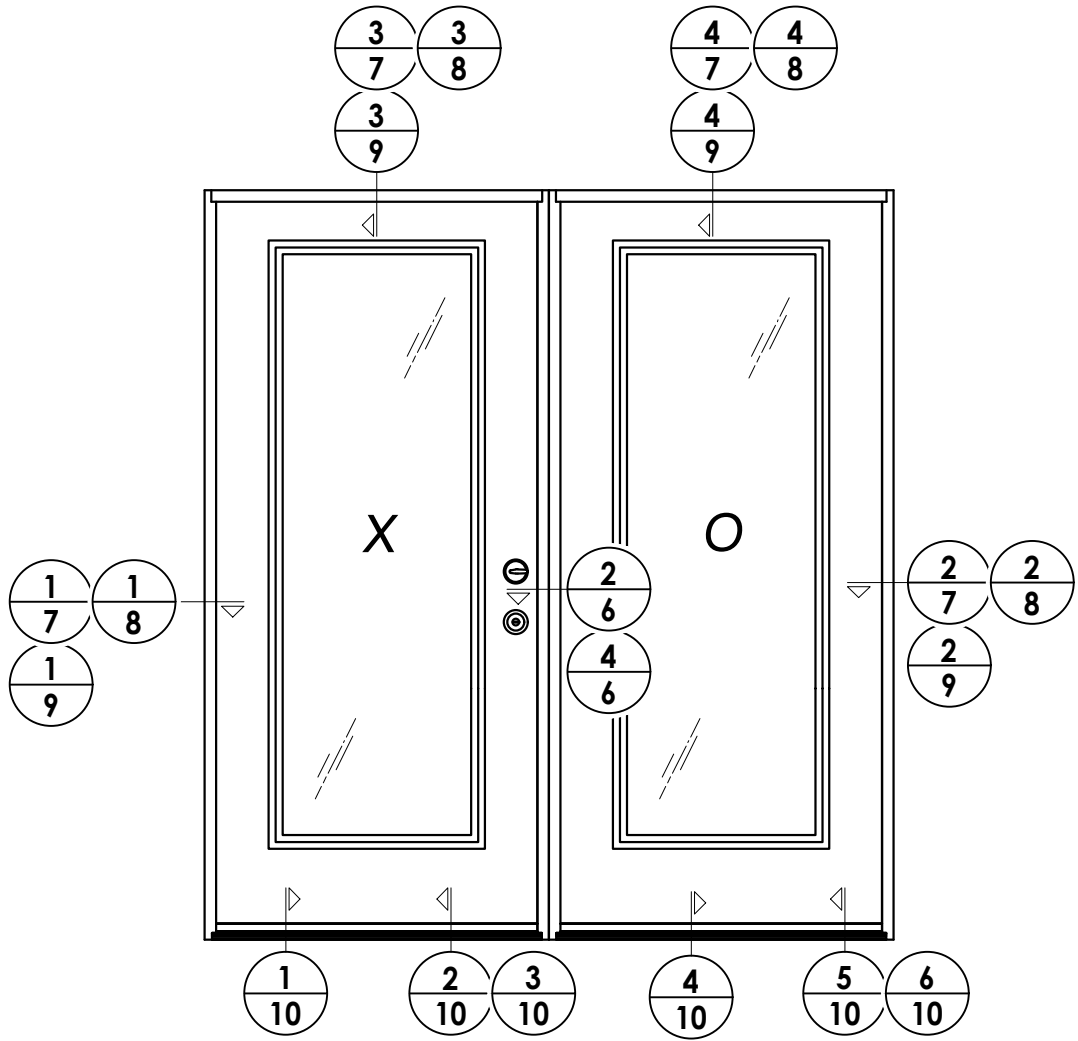
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PROFILES/TRADITIONS Steel Door Panel Options

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:
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PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
ELEVATIONS

REVISIONS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-23507.10

SHEET 5 OF 17

2 8/17/23 UPDATE TO 8TH ED. (2023) FBC LFS

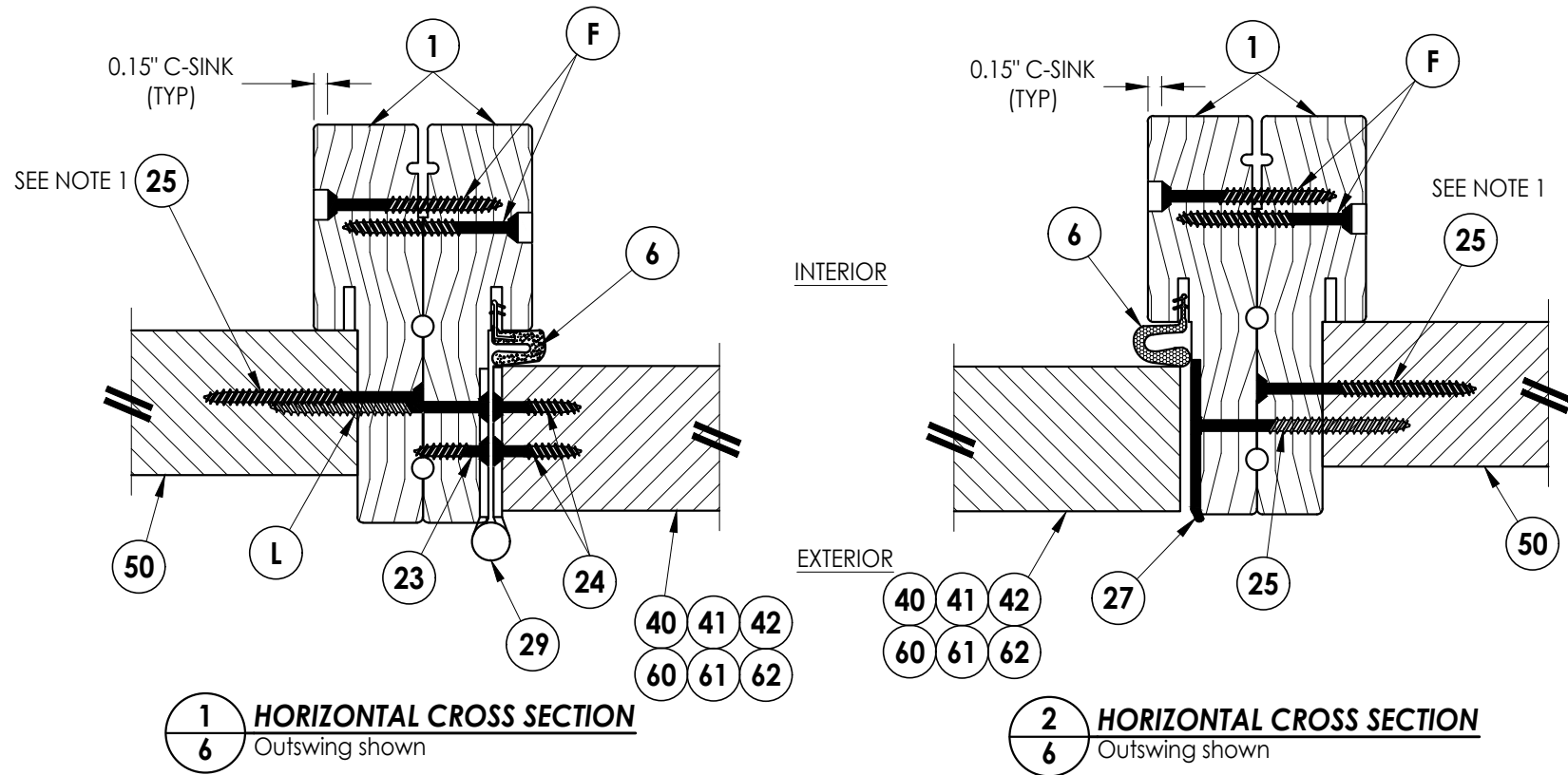
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NO. DATE BY

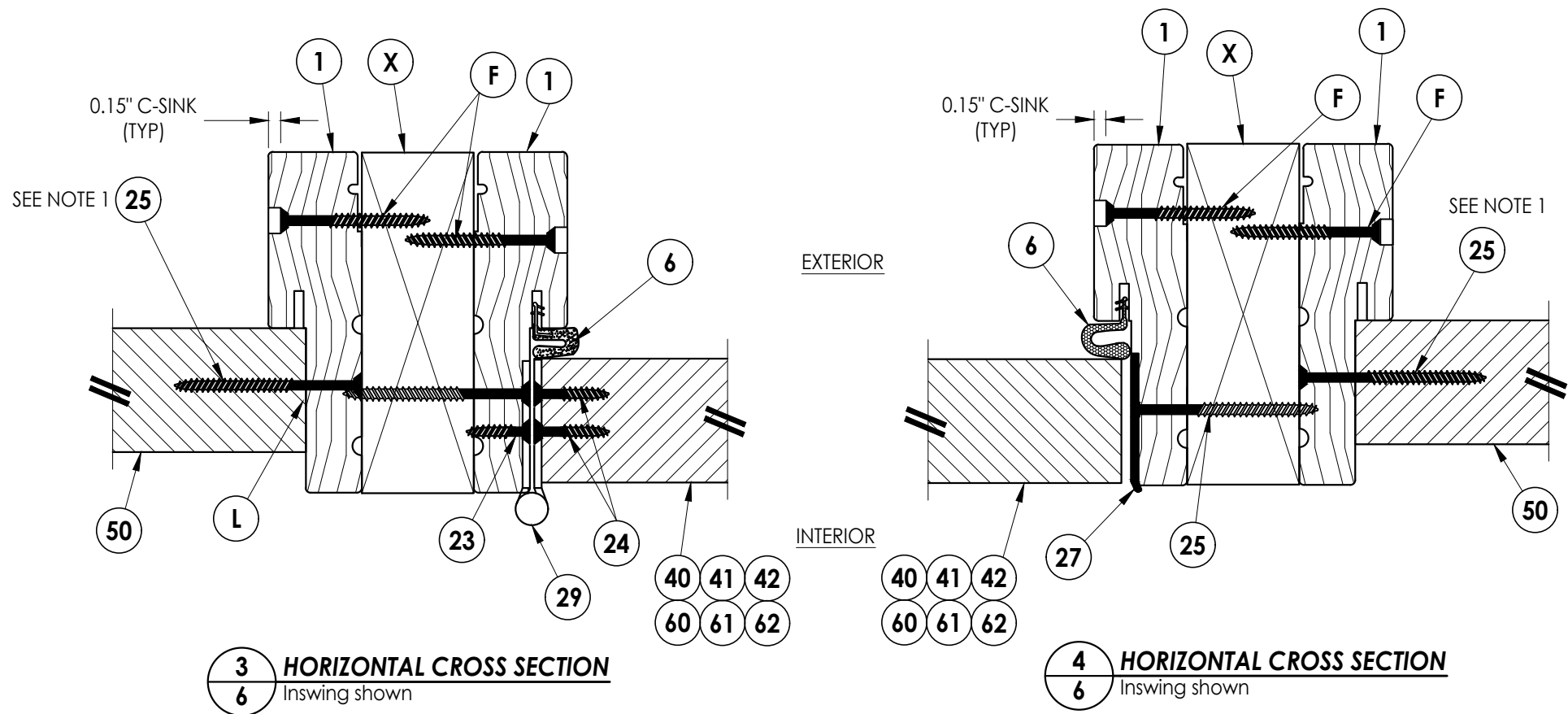
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FBPE Registry No. 9813

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Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).



Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:		PART OR ASSEMBLY:	
THERMA-TRU STEEL DOOR		HORIZONTAL CROSS SECTIONS	
NO.	DATE	REVISIONS	BY
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/15/20	UPDATE TO 7th ED (2020) FBC	PO

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

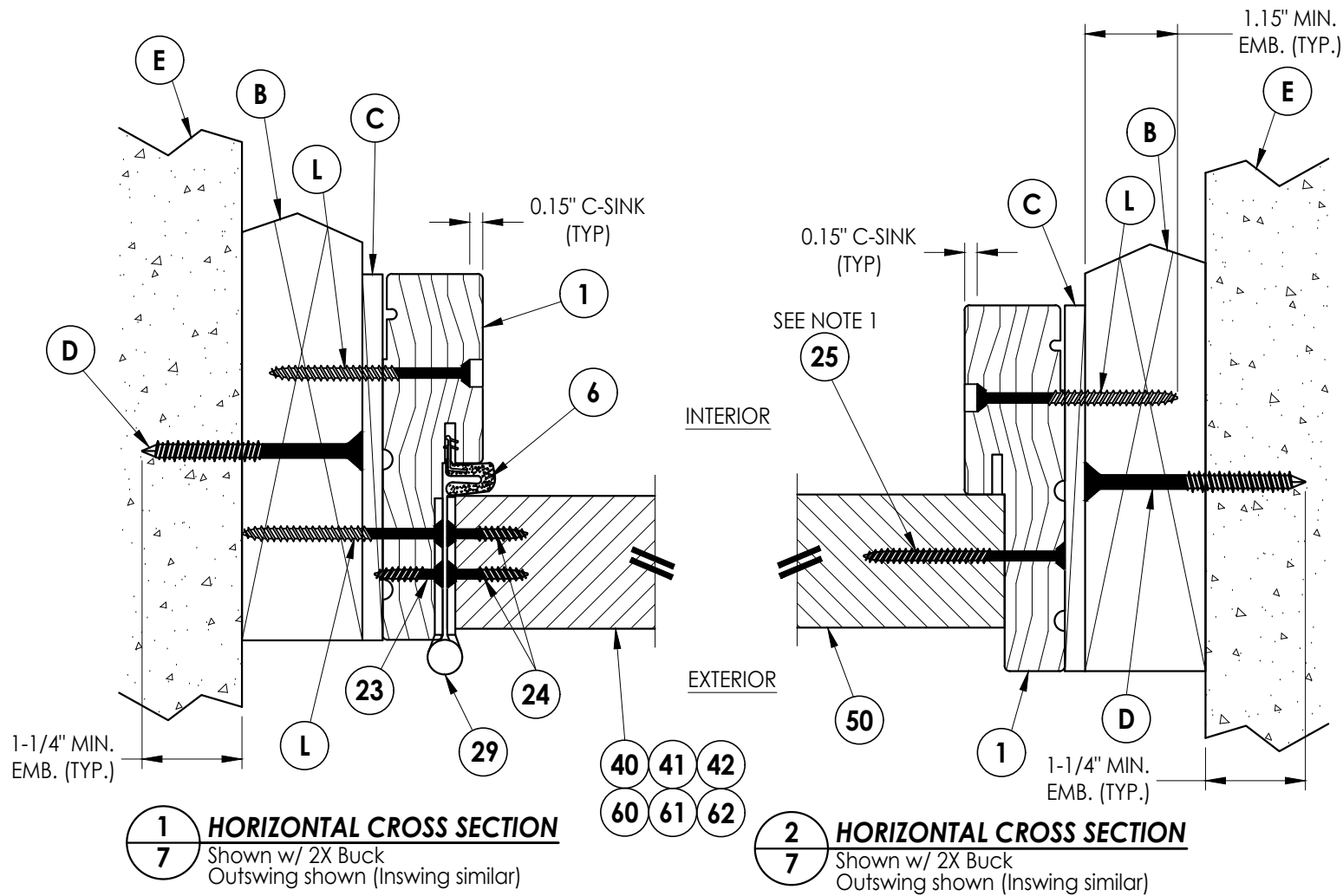
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DRAWING NO.:

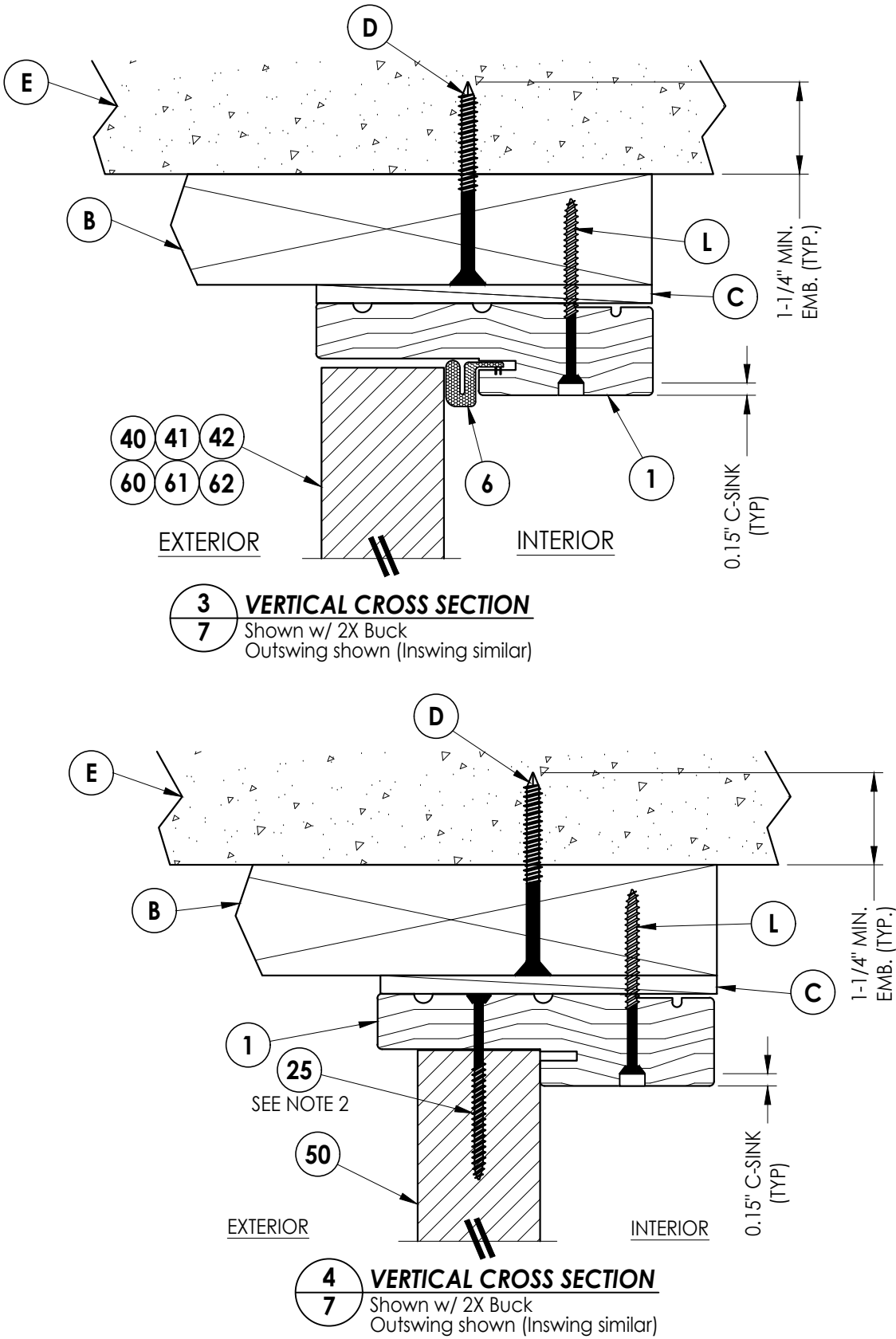
FL-23507.10

SHEET 6 OF 17

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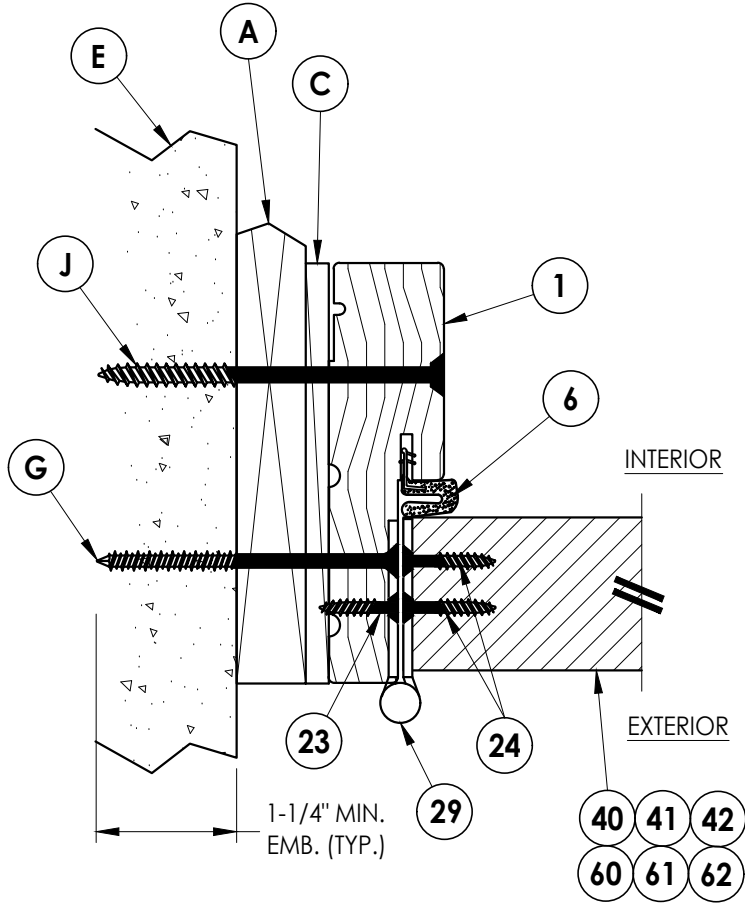
- Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



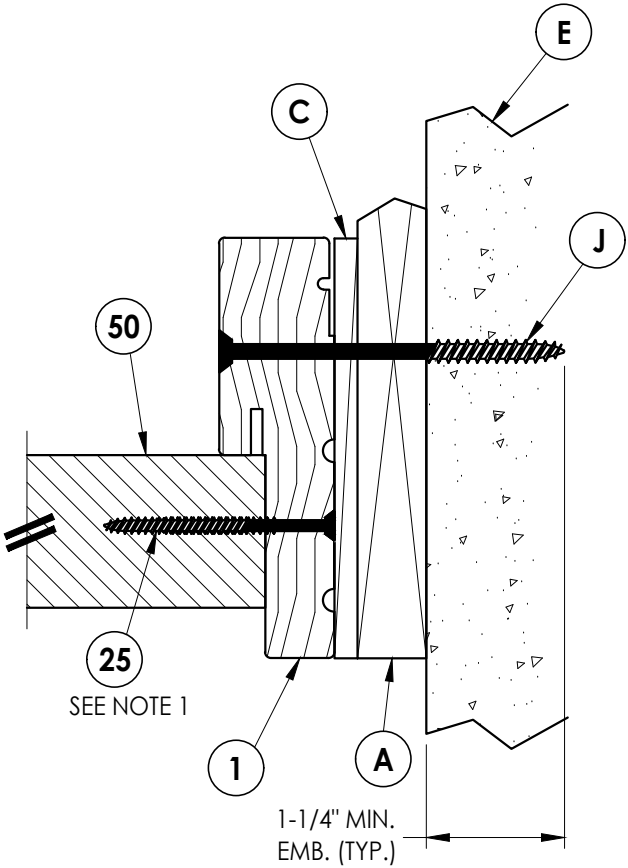
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)	
		LFS	PO
		DATE	BY
		NO.	REVISIONS
DATE: 10/12/17		2 8/17/23 UPDATE TO 8TH ED. (2023) FBC	
SCALE: N.T.S.		1 7/15/20 UPDATE TO 7th ED (2020) FBC	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-23507.10			
SHEET 7 OF 17			

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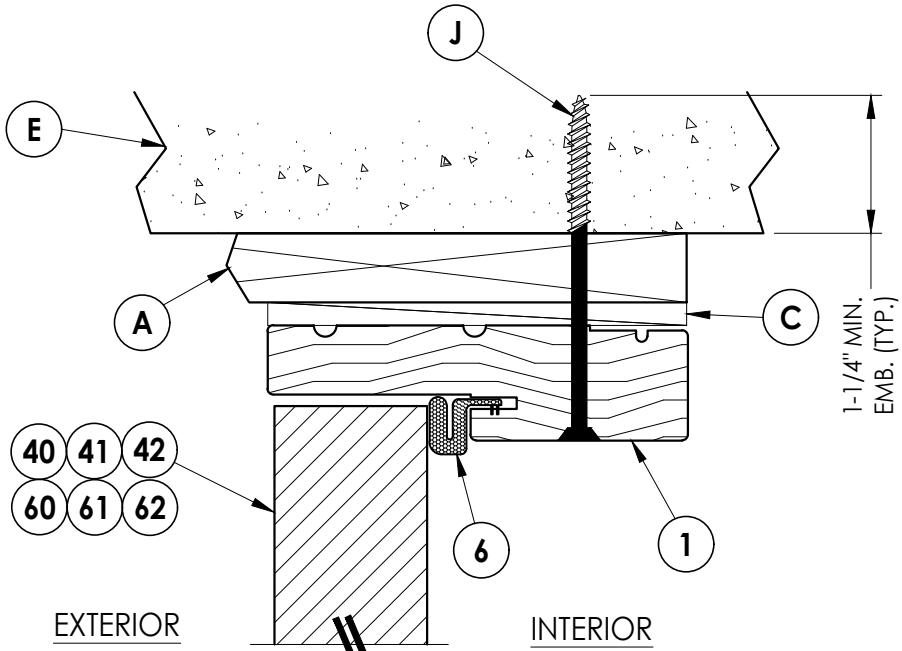
- Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



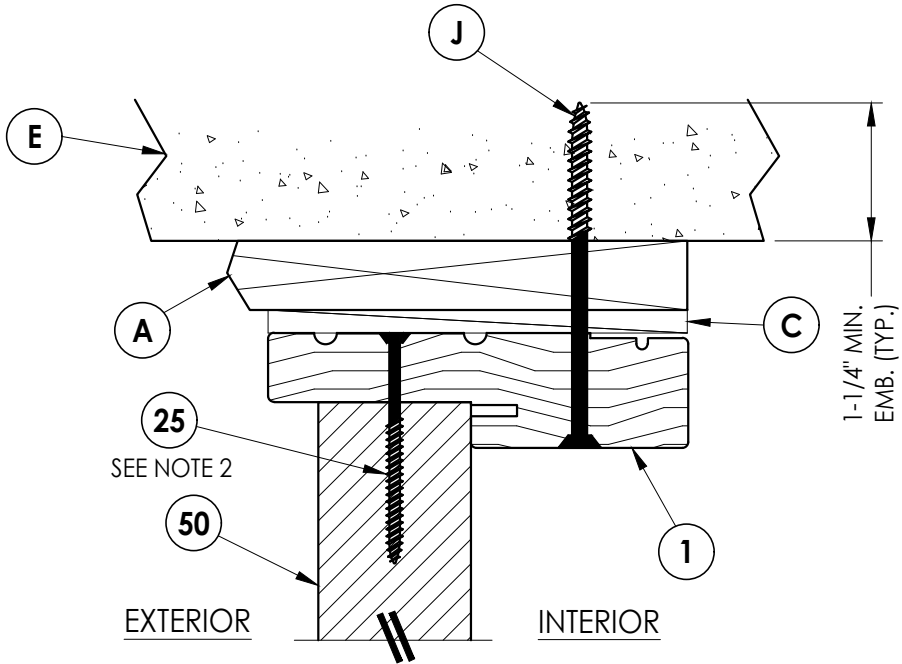
1
8 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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



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



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

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 (1X BUCK)

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 10/12/17

SCALE: N.T.S.

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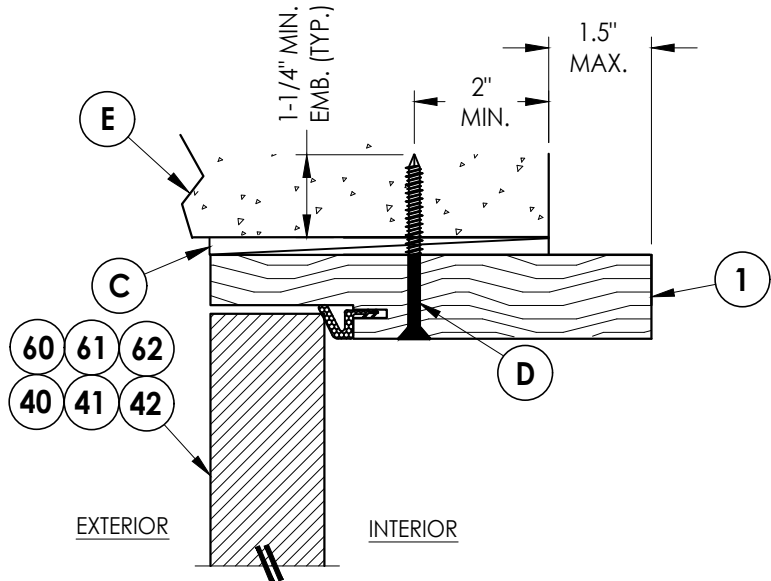
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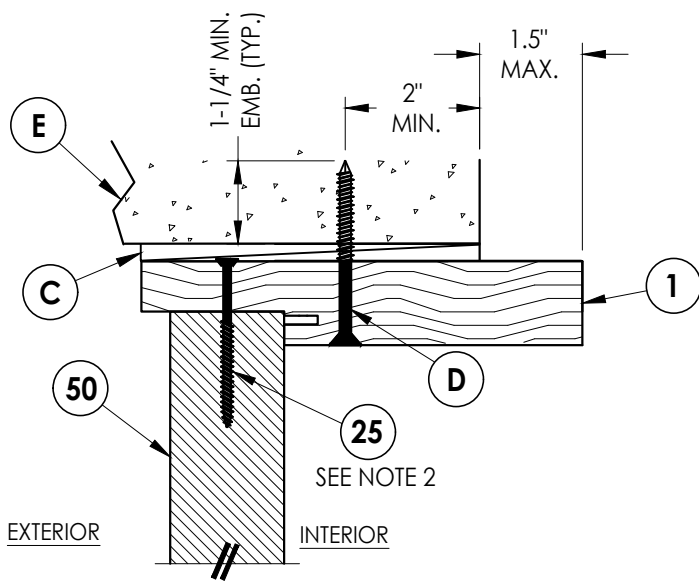
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SHEET 8 OF 17

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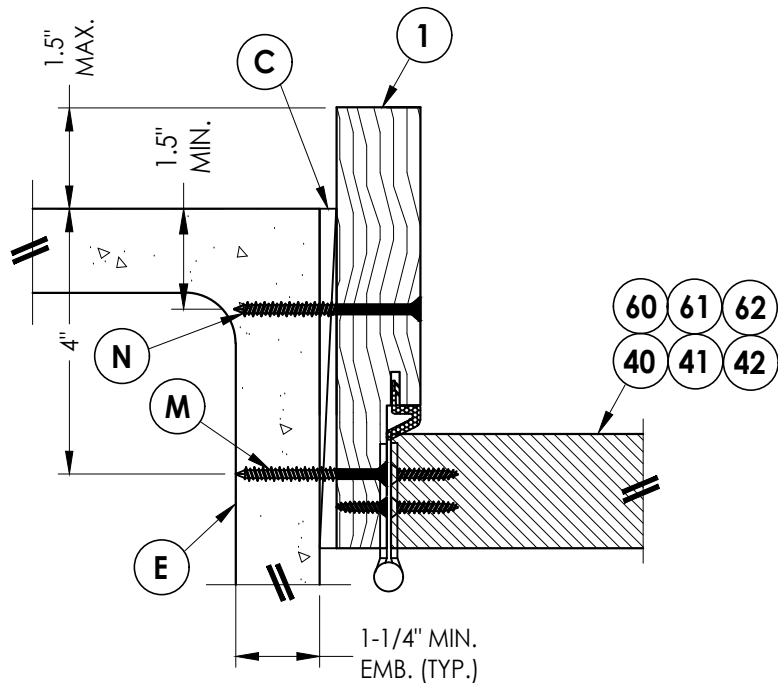
3 **HORIZONTAL CROSS SECTION**
9 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



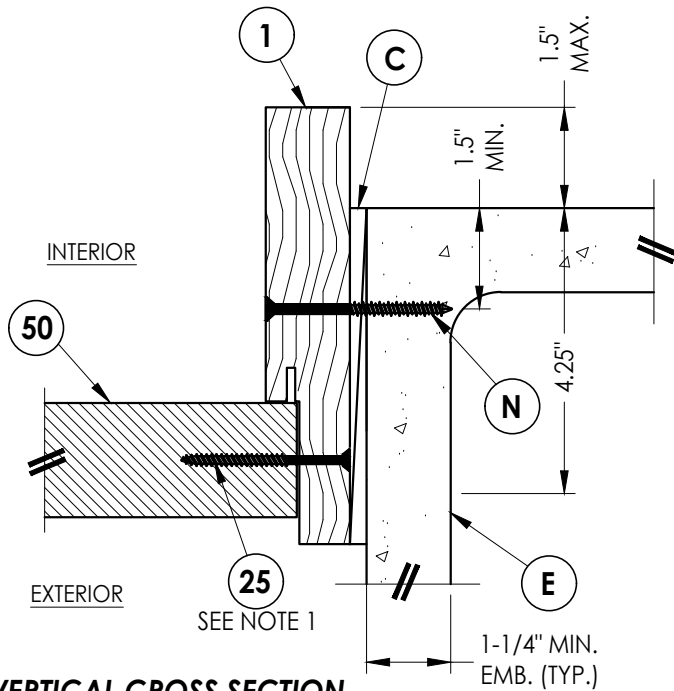
4 **VERTICAL CROSS SECTION**
9 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Notes:

1. Sidelite assembly screws located 7" from top and 14" 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 **HORIZONTAL CROSS SECTION**
9 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

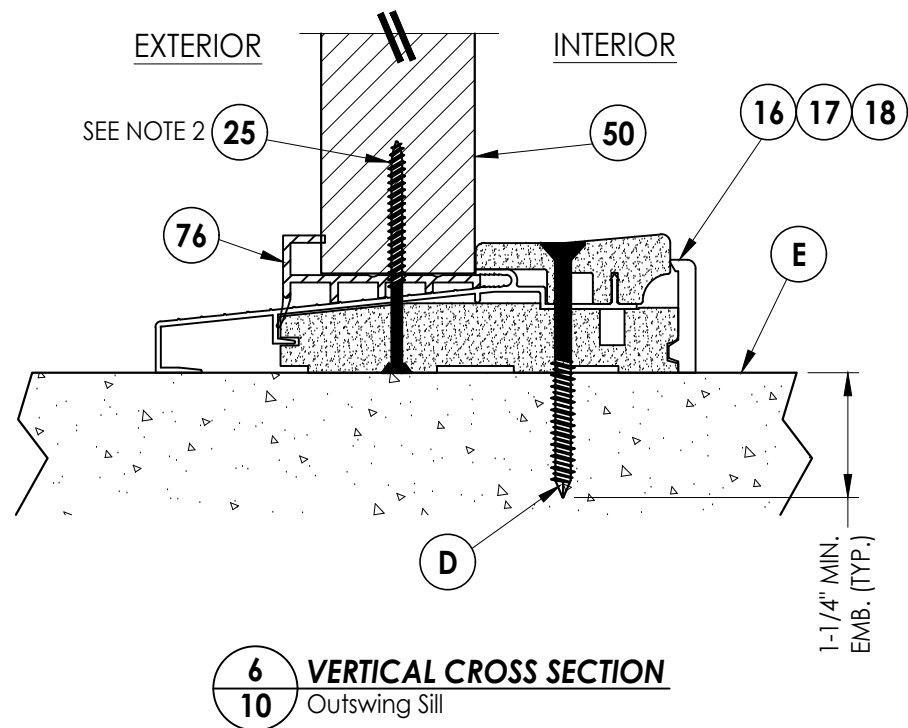
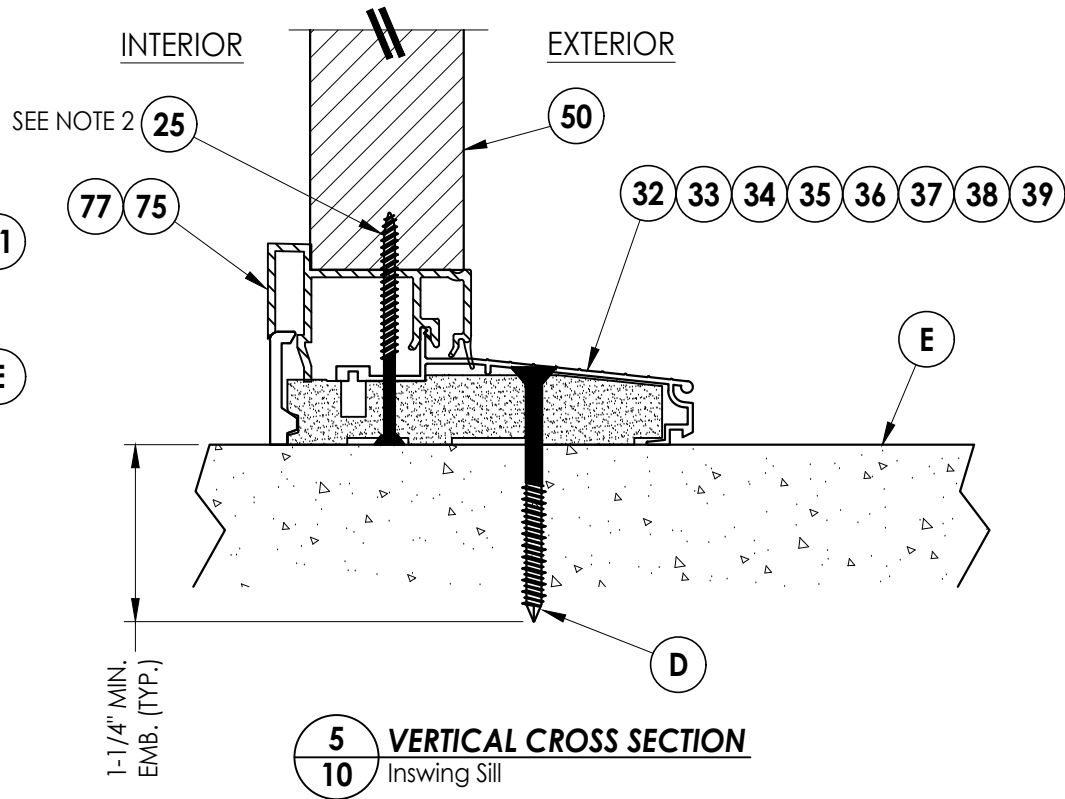
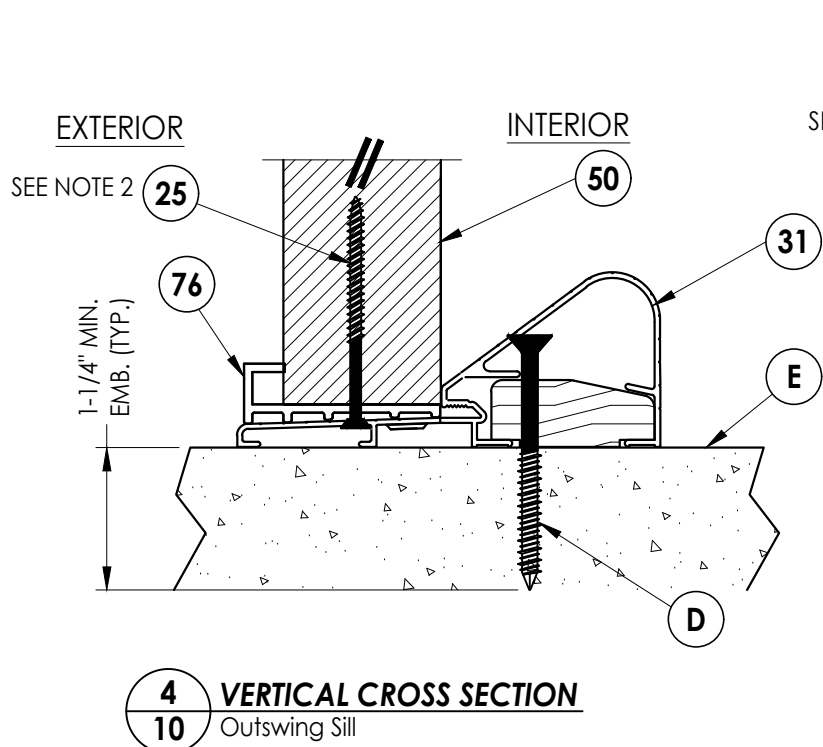
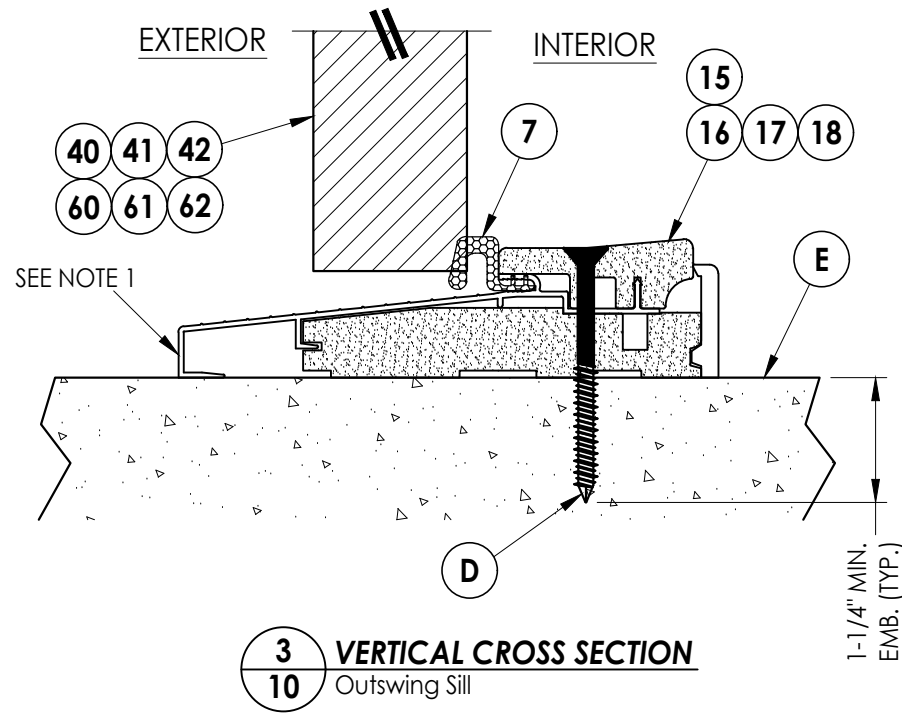
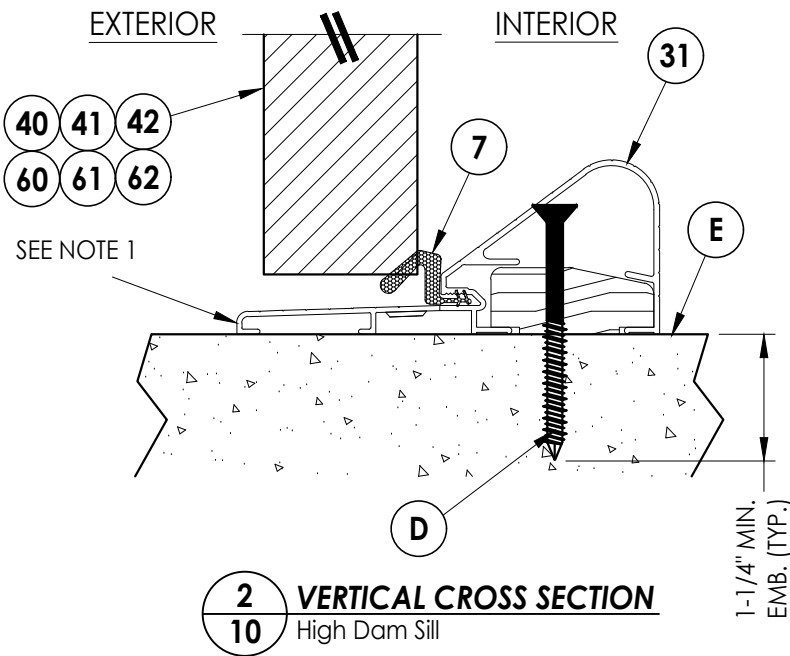
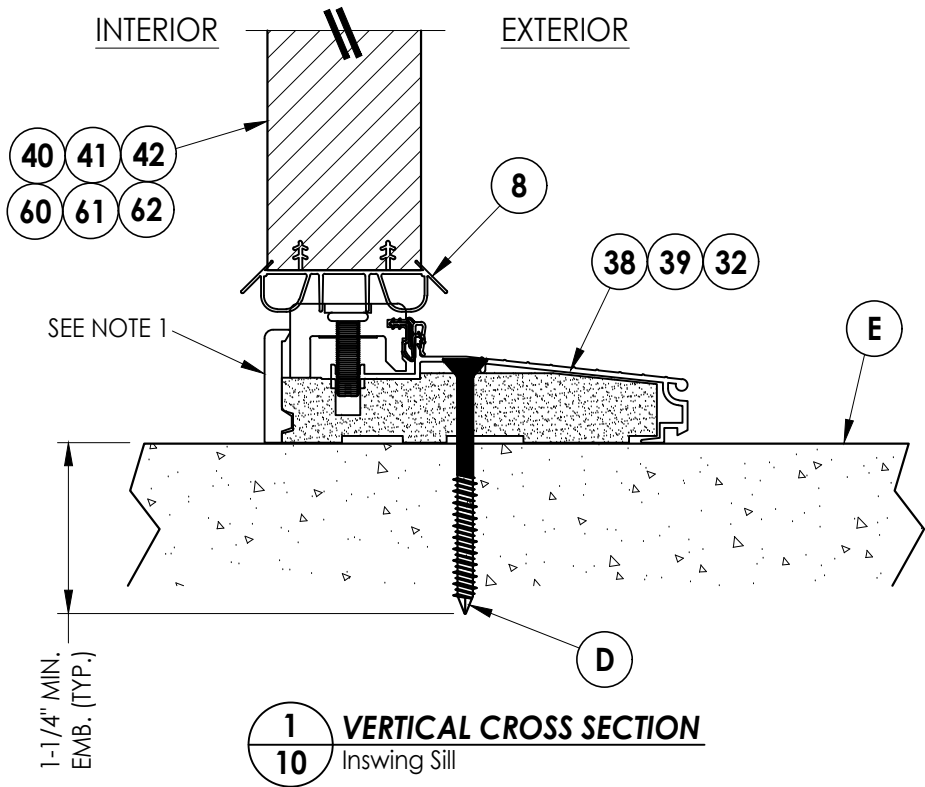


2 **VERTICAL CROSS SECTION**
9 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

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PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)	
		LFS	
		PO	
		BY	
		REVISIONS	
		2	8/17/23
		1	7/15/20
		NO.	DATE
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-23507.10			
SHEET 9 OF 17			

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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" 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 screws at each end.
 - Sidelite assembly screws located 4" from each end (2 screws along sill).



Documents Prepared By:
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P.E. No. 43409

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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)

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/15/20	UPDATE TO 7th ED (2020) FBC PO

DATE: 10/12/17

SCALE: N.T.S.

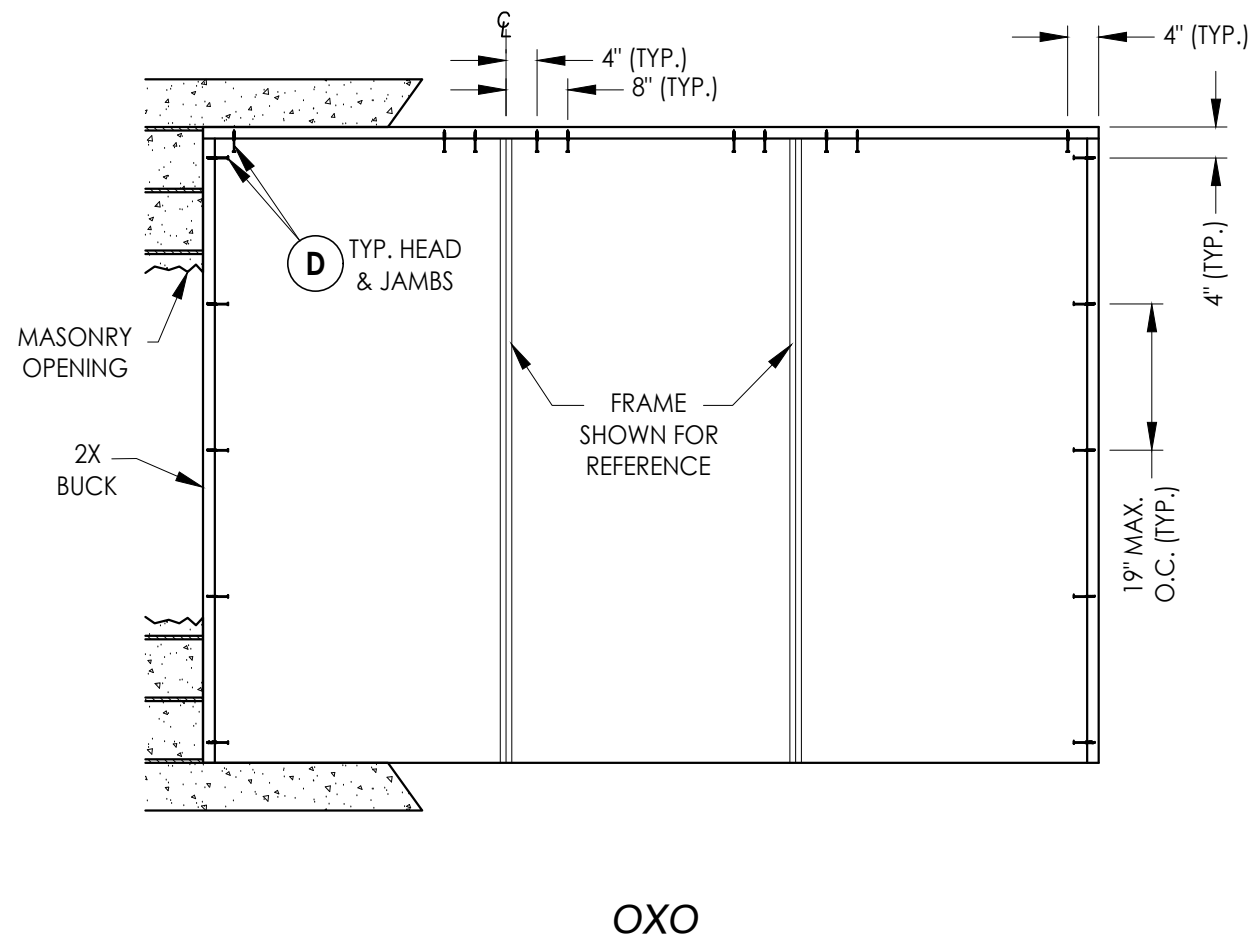
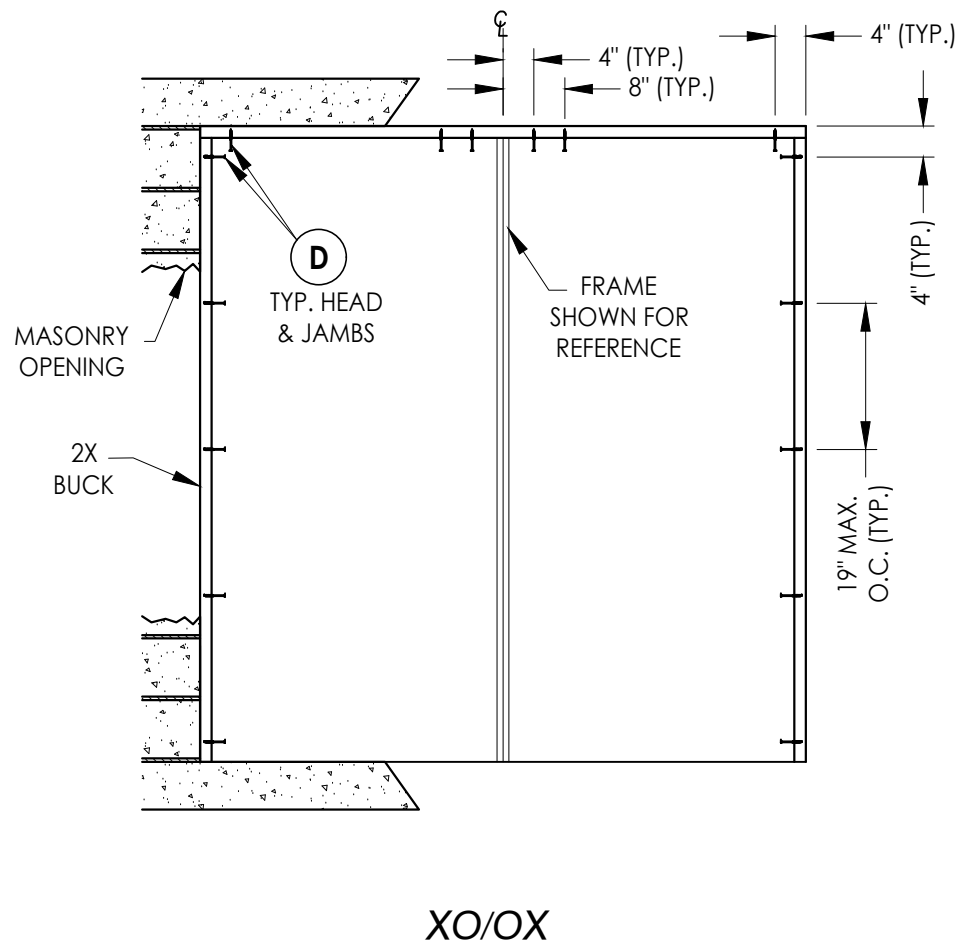
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CHK. BY: LFS

DRAWING NO.:

FL-23507.10

SHEET 10 OF 17

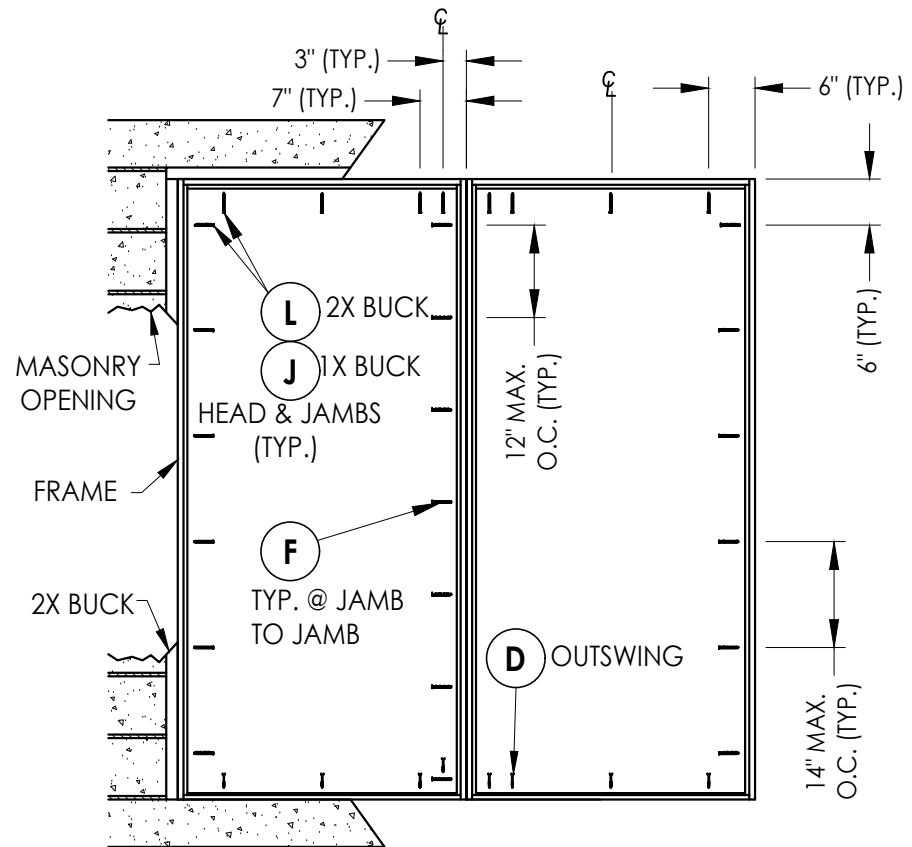


2X BUCK ANCHORING

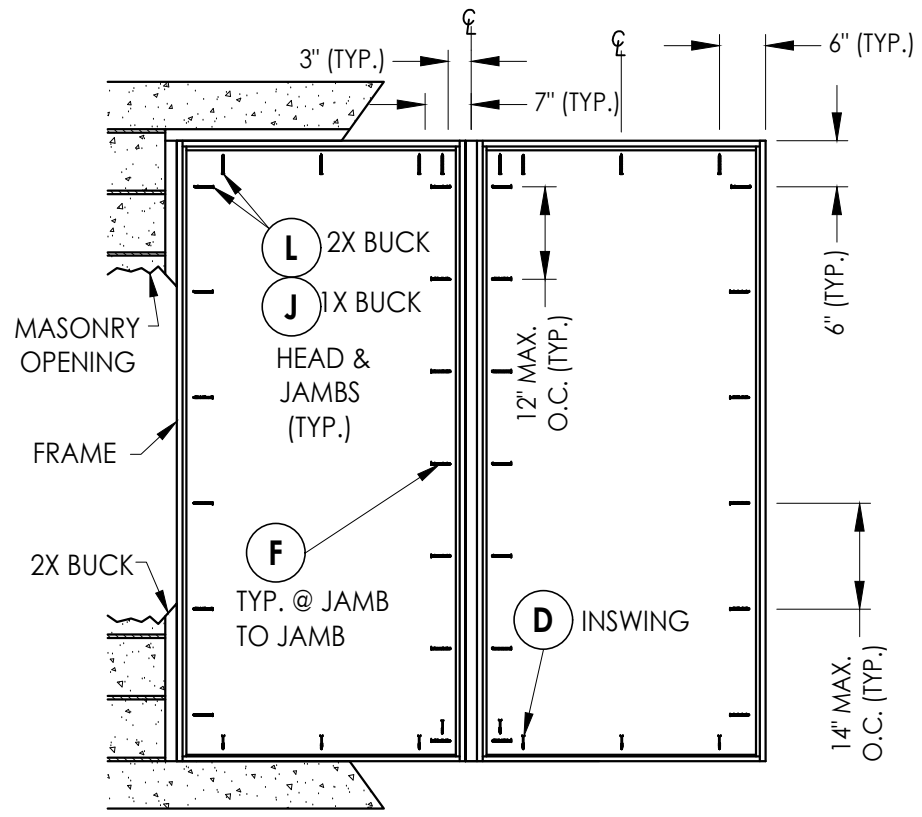
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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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



OUTSWING OX/XO



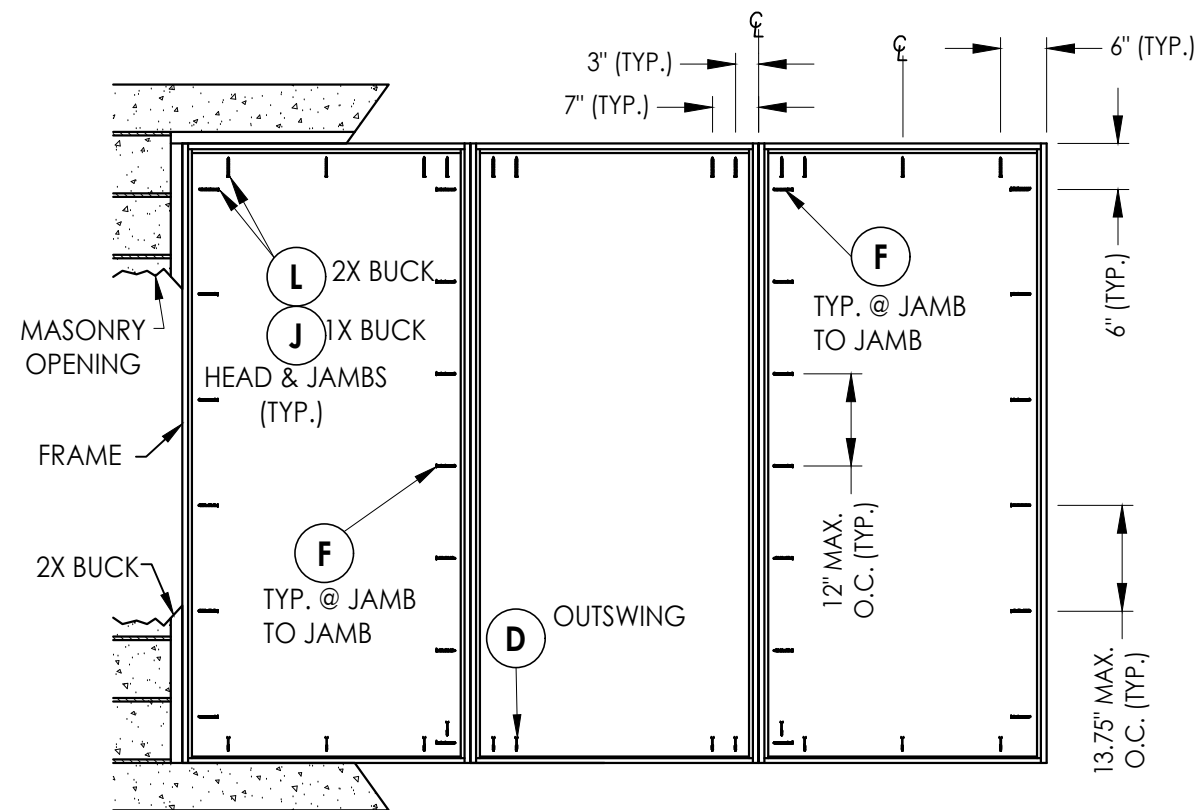
IN SWING OX/XO

FRAME ANCHORING

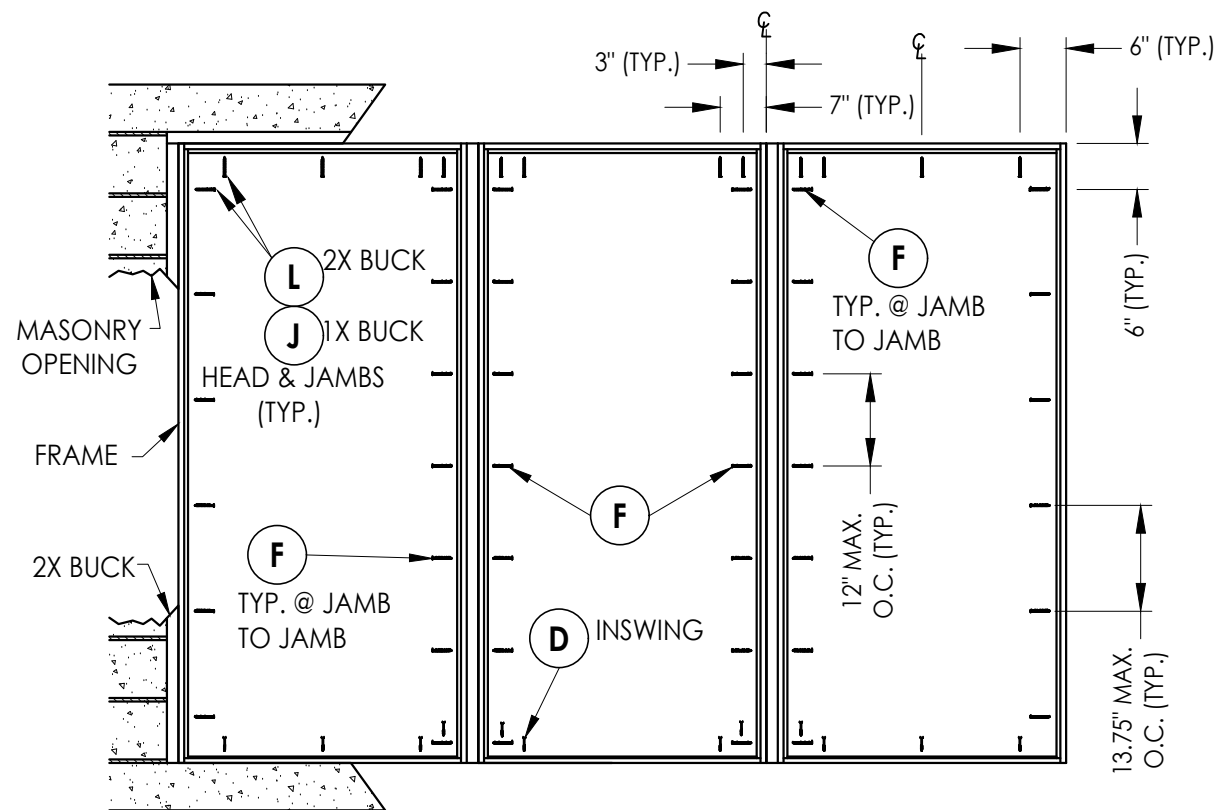
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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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



OUTSWING OXO



INSWING OXO

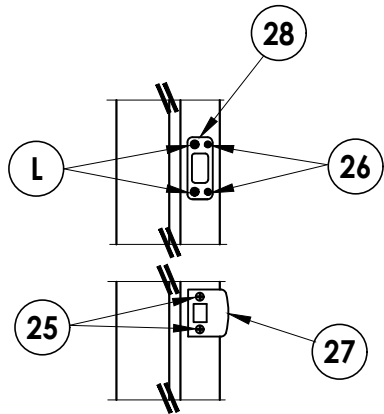
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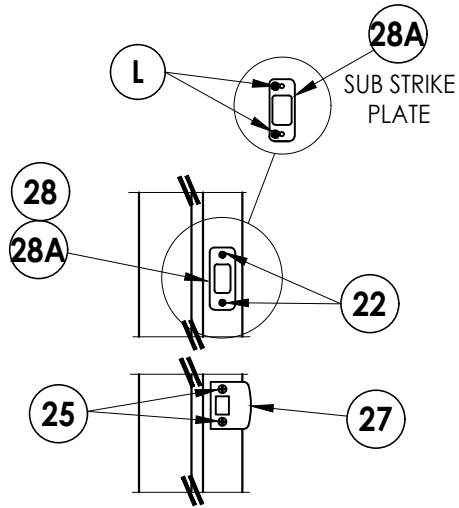
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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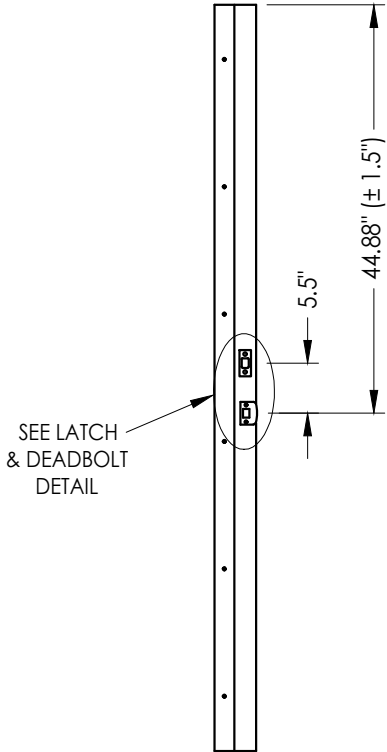


LATCH & DEADBOLT DETAIL
Kwikset

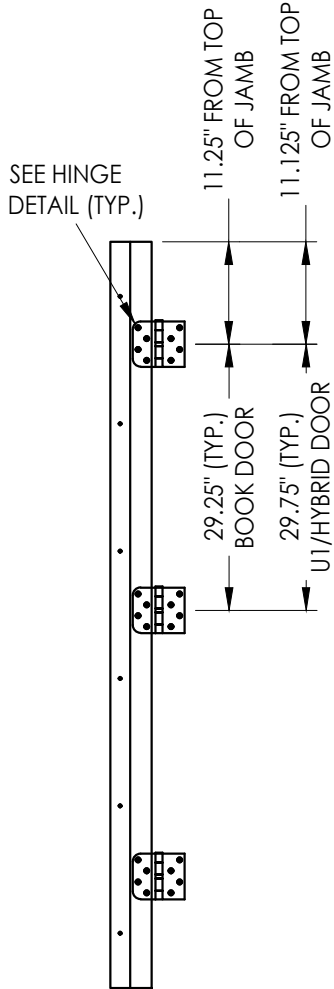


LATCH & DEADBOLT DETAIL
Schlage

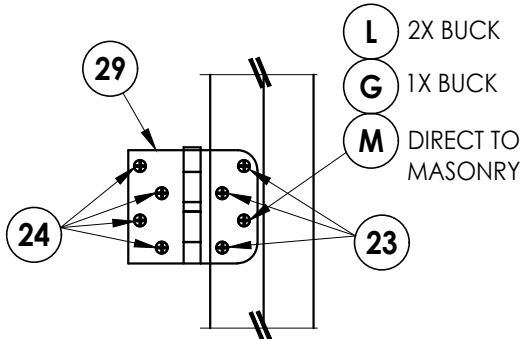
LATCH & DEADBOLT STRIKE DETAILS



STRIKE JAMB
Latch and Deadbolt



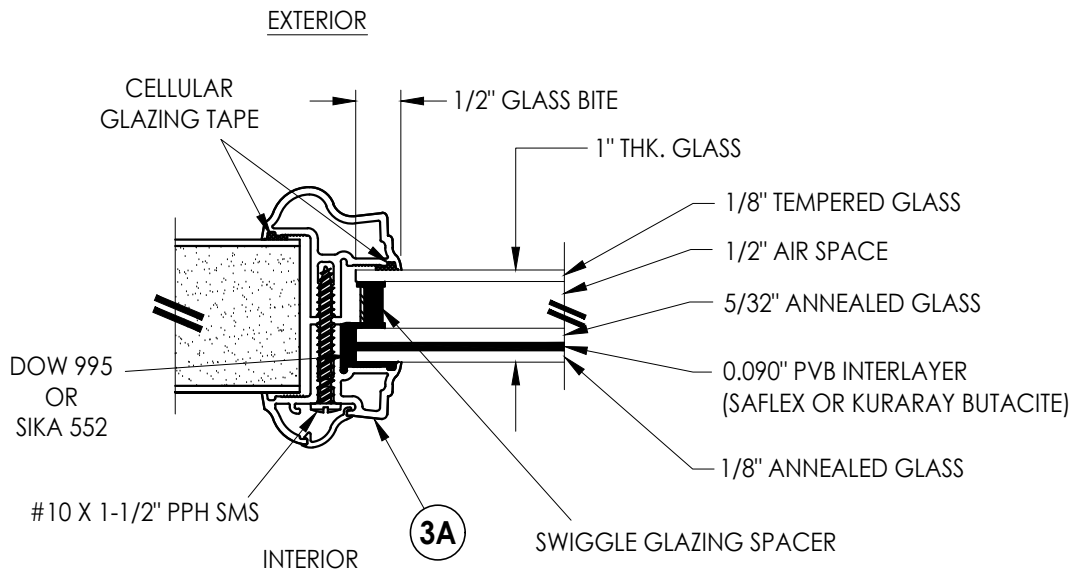
HINGE JAMB



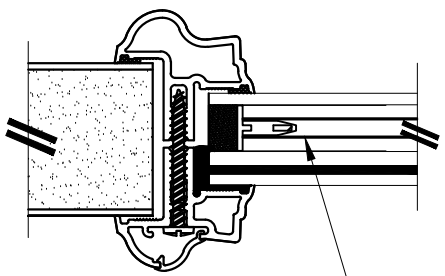
HINGE DETAIL

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: HARDWARE DETAILS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

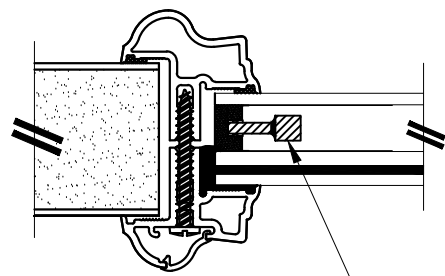
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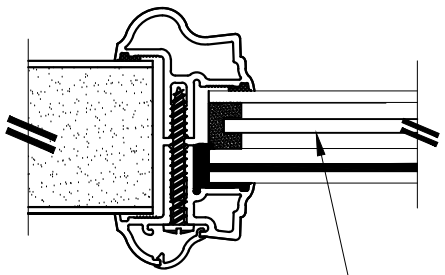
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



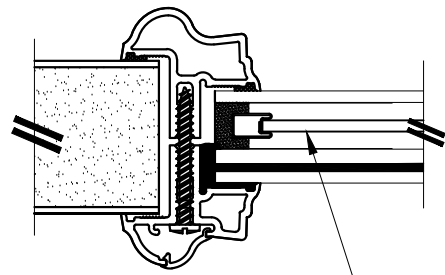
INTERNAL GRID (GBG)



WROUGHT IRON INSERT

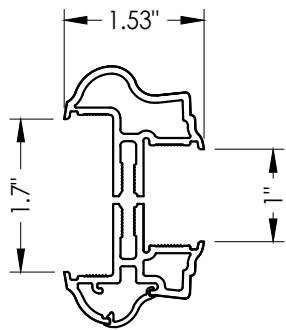


PRIVACY INSERT

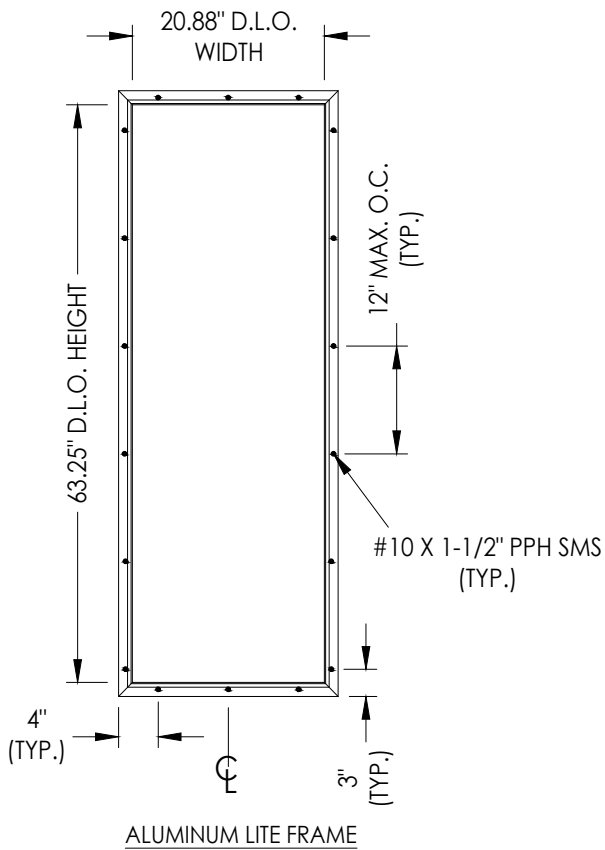


DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS



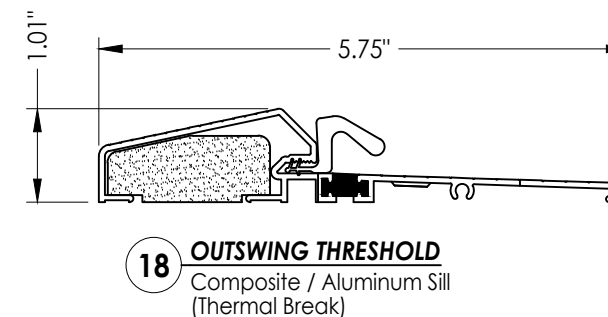
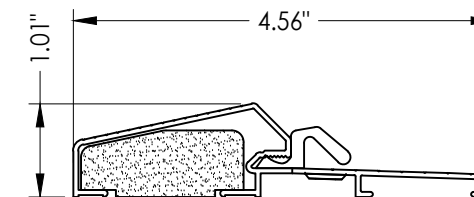
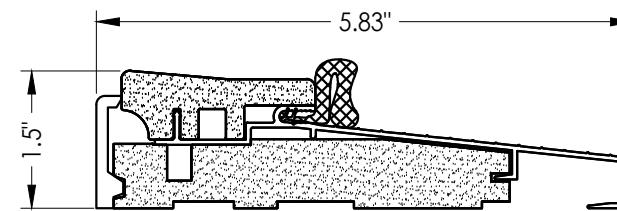
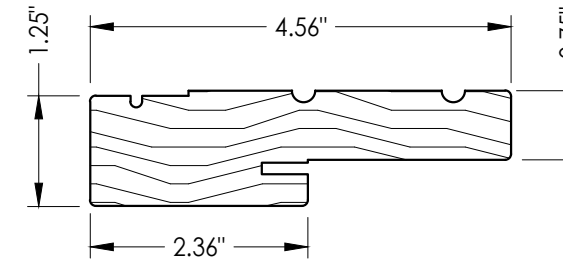
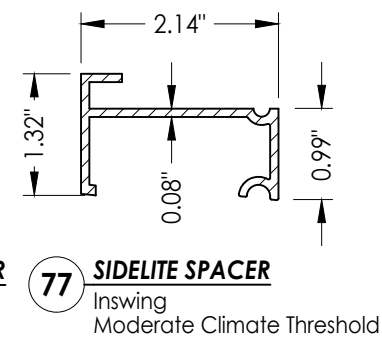
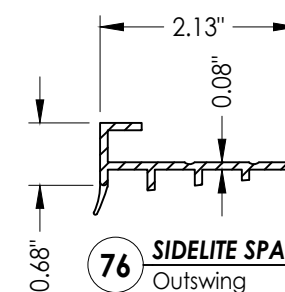
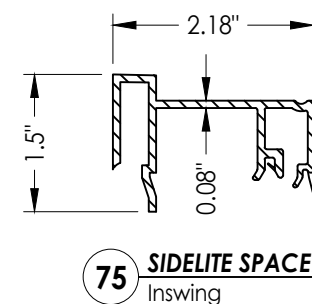
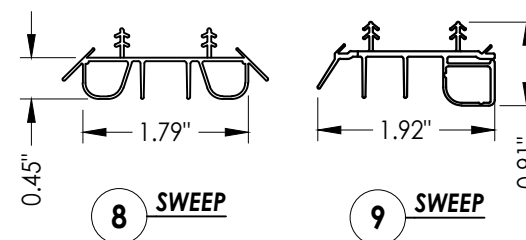
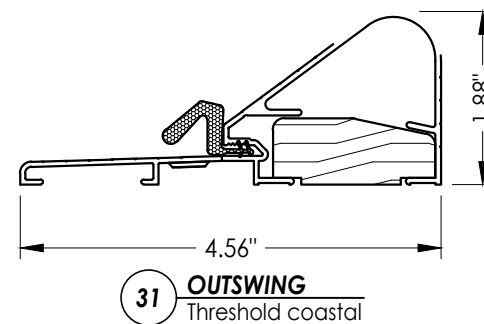
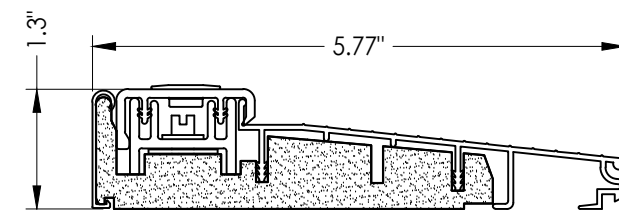
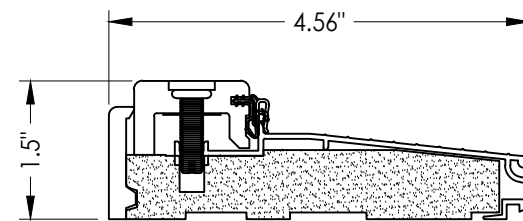
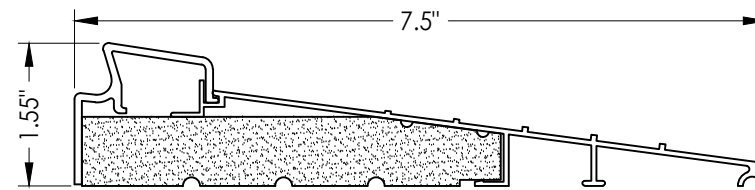
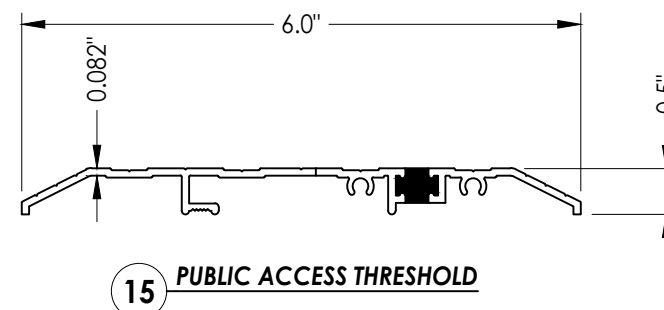
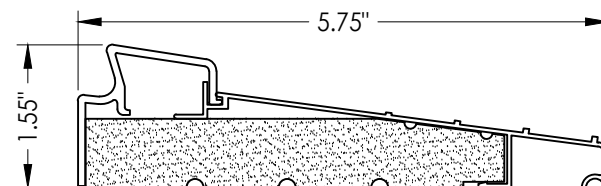
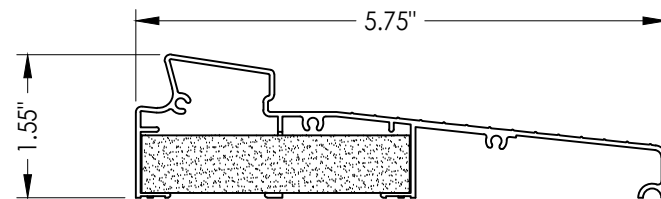
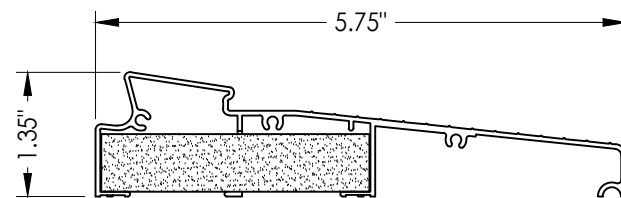
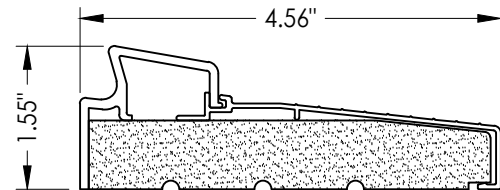
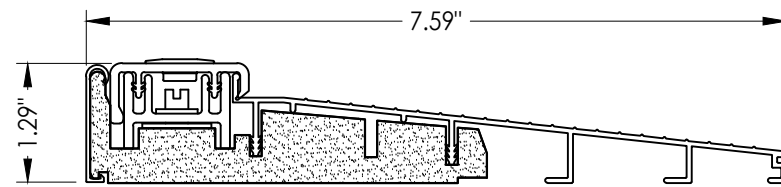
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



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:		GLAZING DETAILS	
				LFS	FBC		
				PO	FBC		
				NO.	DATE		
				REVISIONS			
				2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC
				1	7/15/20	UPDATE TO 7th ED (2020)	FBC
DATE: 10/12/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-23507.10							
SHEET 15 OF 17							

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

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

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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 DeWALT OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	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
			29	4" X 4" HINGE	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT 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) - "PROFILES" SERIES	-
15	PUBLIC ACCESS THRESHOLD	ALUM	41	DOOR PANEL (HYBRID) - "PROFILES" SERIES	-
16	OUTSWING THRESHOLD	ALUM/COMP	42	DOOR PANEL (U1) - "PROFILES" SERIES	-
17	OUTSWING THRESHOLD	ALUM/COMP	50	SIDELITE (FULL LITE)	-
18	OUTSWING THRESHOLD	ALUM/COMP	60	DOOR PANEL (BOOK) - "TRADITIONS" SERIES	-
22	#8 x 3/4" PFH WOOD SCREW	STEEL	61	DOOR PANEL (HYBRID) - "TRADITIONS" SERIES	-
23	#10 x 3/4" PFH WOOD SCREW	STEEL	62	DOOR PANEL (U1) - "TRADITIONS" SERIES	-
24	#10 x 1" PFH WOOD SCREW	STEEL	75	SIDELITE SPACER (INSWING)	-
			76	SIDELITE SPACER (OUTSWING)	-
			77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	-

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.

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

PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS

LFS
PO
BY

2
1
NO.

8/17/23
7/15/20
DATE

UPDATE TO 8TH ED. (2023)
UPDATE TO 7th ED (2020)

FBC
FBC

REVISIONS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-23507.10

SHEET 17 OF 17

RW BUILDING CONSULTANTS, INC.
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