

Z:\2023 FBC Drawings\Therma-Tru\FL-30482 R5\FL-30482.1-3.dwg

Therma-Tru® DOORS

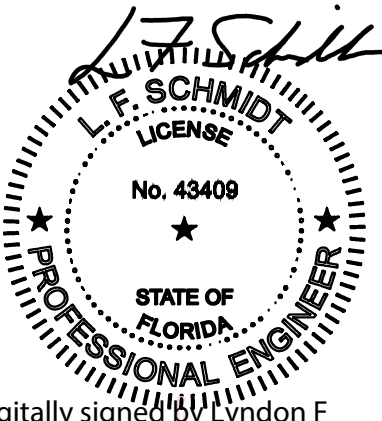
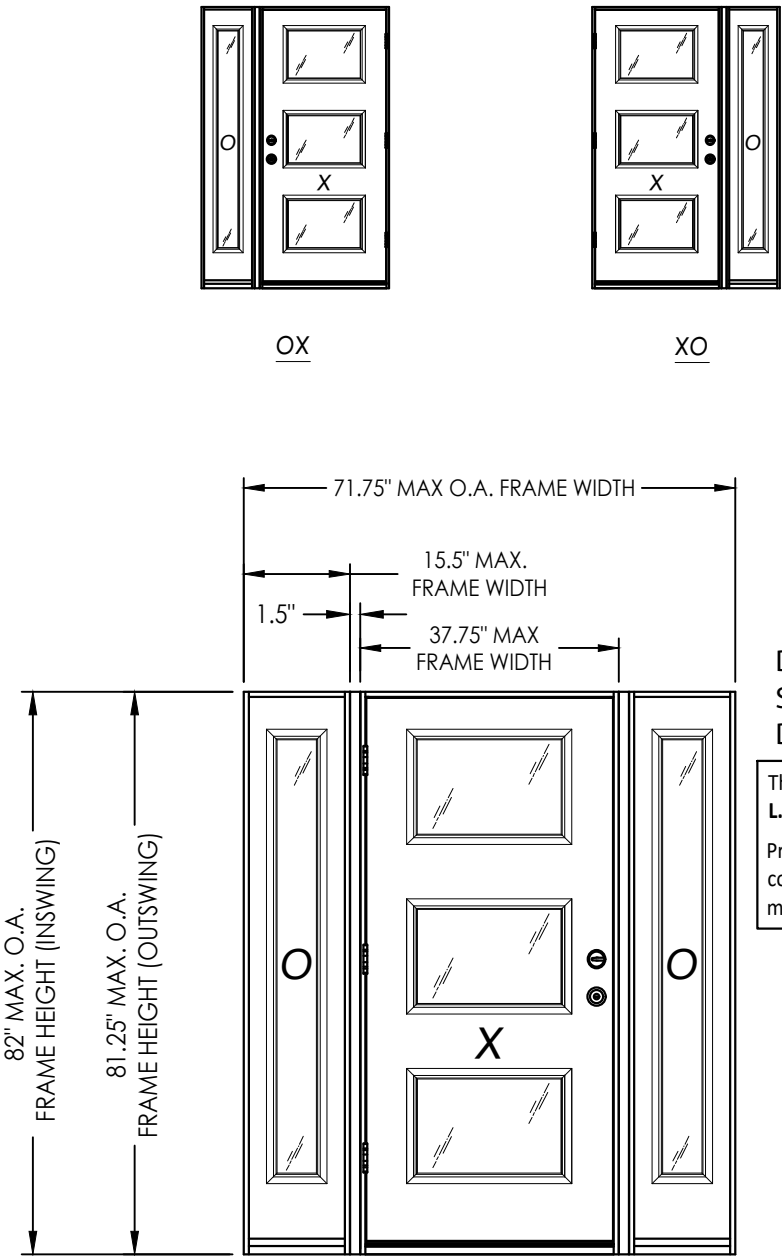
Fiber-Classic® & Smooth-Star®

WOOD OR COMPOSITE EDGE MULTI-LITE GLAZED FIBERGLASS 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. This product meets the water infiltration requirements for the "HVHZ".
8. Outswing configurations using Coastal Sill (item #36) under active doors meet water infiltration requirements for "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.

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3	Sidelite Panel Details	10	Frame Anchoring
4	Elevations	11	Hardware Details
5	Horizontal & Vertical Cross Sections (2X Buck)	12	Glazing Details
6	Horizontal & Vertical Cross Sections (1X Buck)	13	Bill of Materials & Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)		



Digitally signed by Lyndon F Schmidt
Date: 2025.06.17 07:59:12 -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

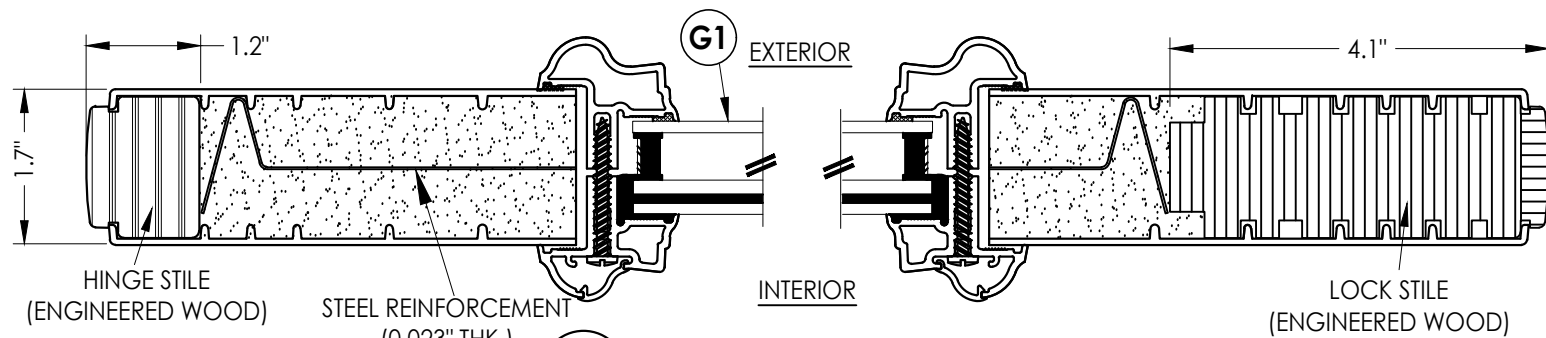
CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+60.0	-65.0	+60.0	-60.0

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 License No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
4	6/16/25	REVISE DIRECT TO MASONRY INST.	LFS
3	7/27/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	7/23/20	UPDATE TO 7TH ED (2020) FBC	LFS
1	5/20/20	ADD DOOR CUT DOWN OPTION	LFS
NO.	DATE		BY
			REVISIONS
DATE: 10/01/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-30482.2			
SHEET 1 OF 13			

2" DIA. MAX.

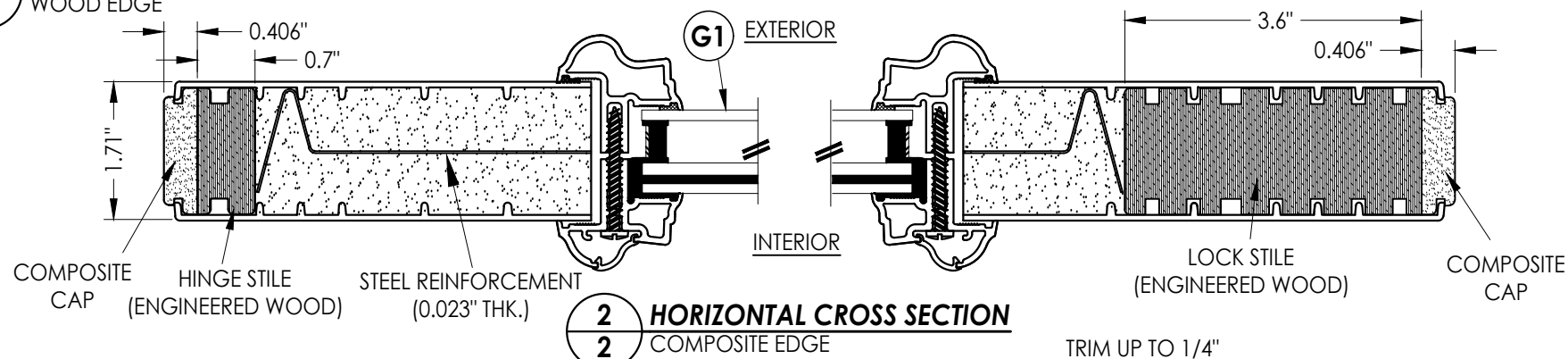
STEEL REINFORCEMENT

28.86% OPEN AREA MAX.



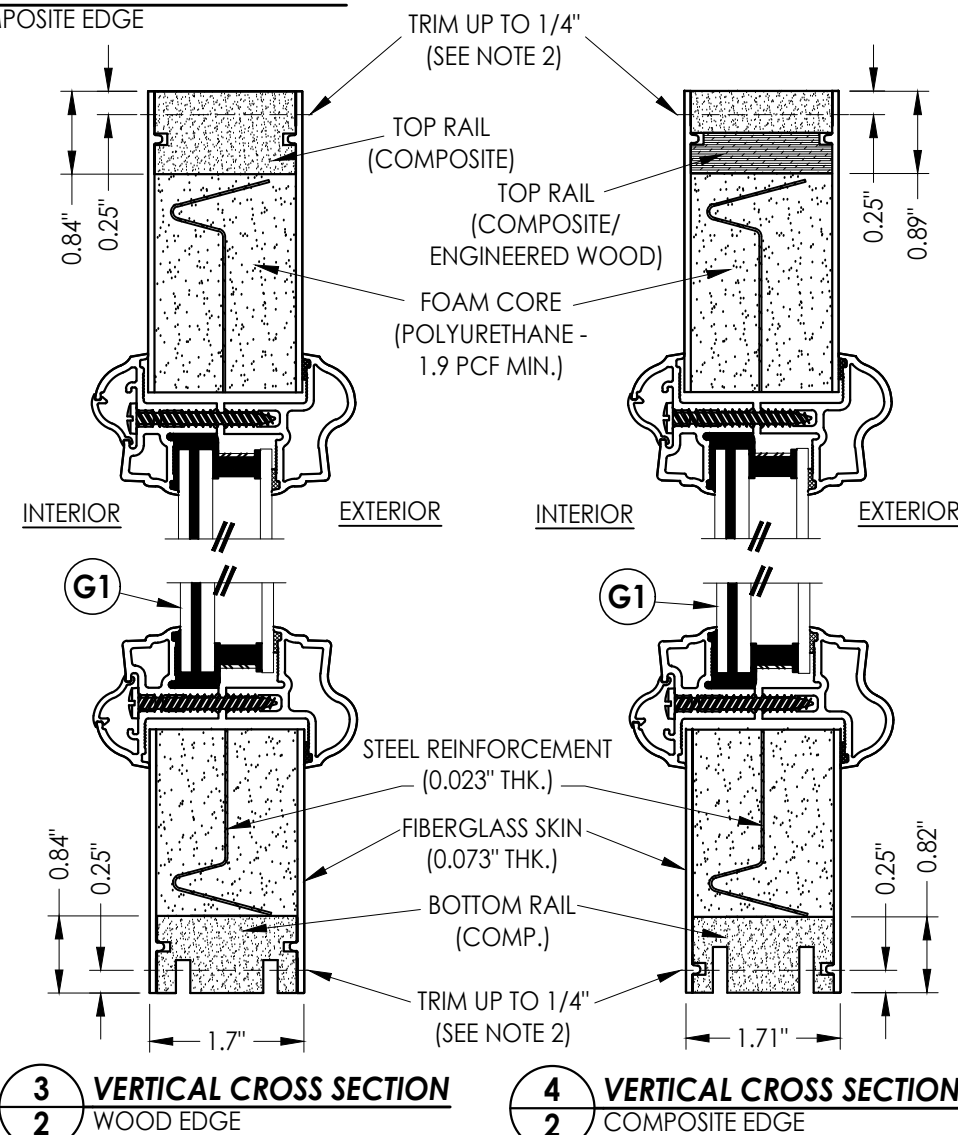
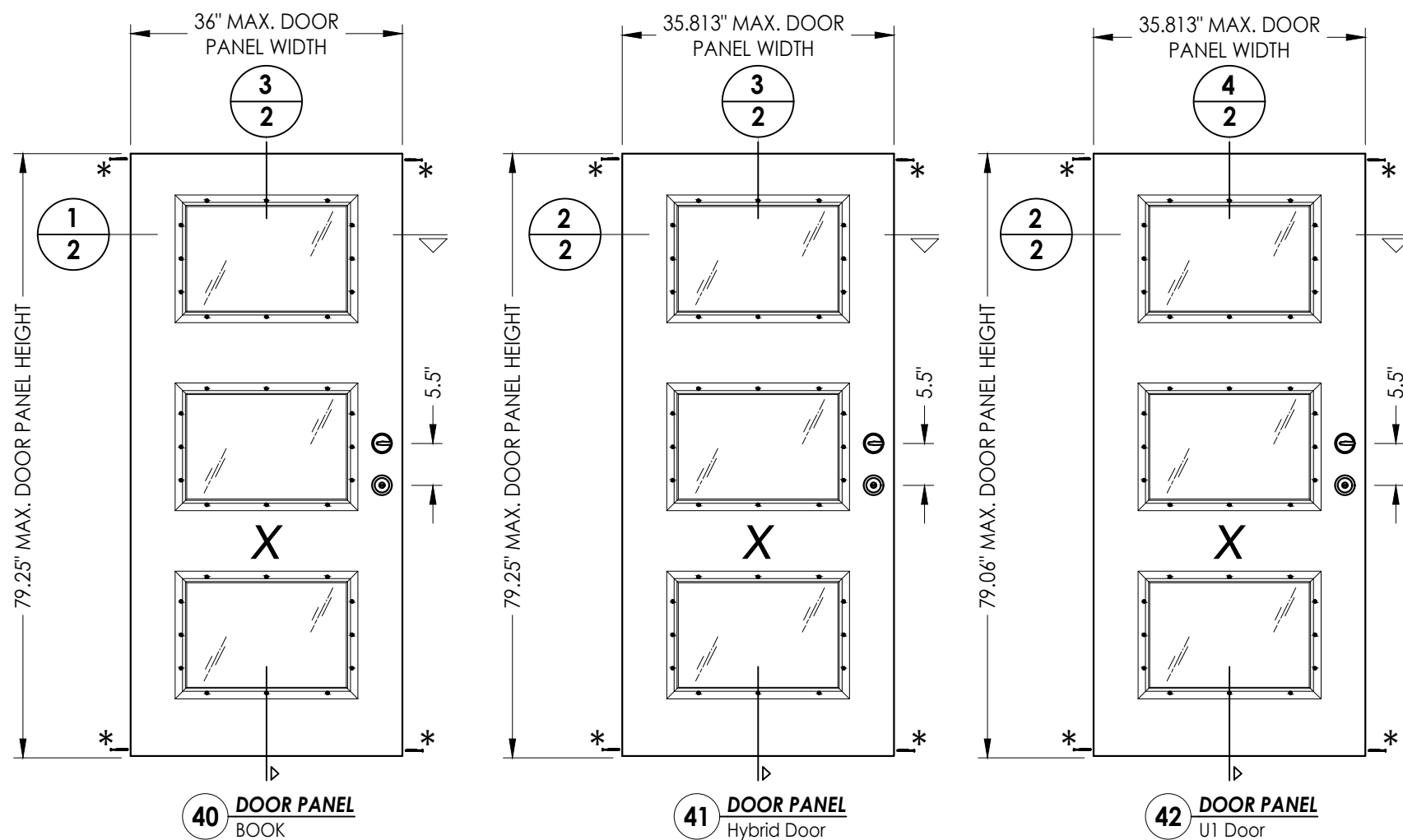
1 HORIZONTAL CROSS SECTION

2 WOOD EDGE



2 HORIZONTAL CROSS SECTION

* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



3 VERTICAL CROSS SECTION 2 WOOD EDGE

4 **VERTICAL CROSS SECTION**
2 COMPOSITE EDGE

- NOTES:**
1. BOOK, HYBRID & U1 DOORS MAY EACH BE FABRICATED AS WOOD OR COMPOSITE EDGE DOORS
 2. CUT DOWN OPTION: DOORS MAY BE TRIMMED UP TO 1/4" MAX. ALONG THE TOP & BOTTOM RAILS (TOTAL DOOR REDUCED HEIGHT OF 1/2")

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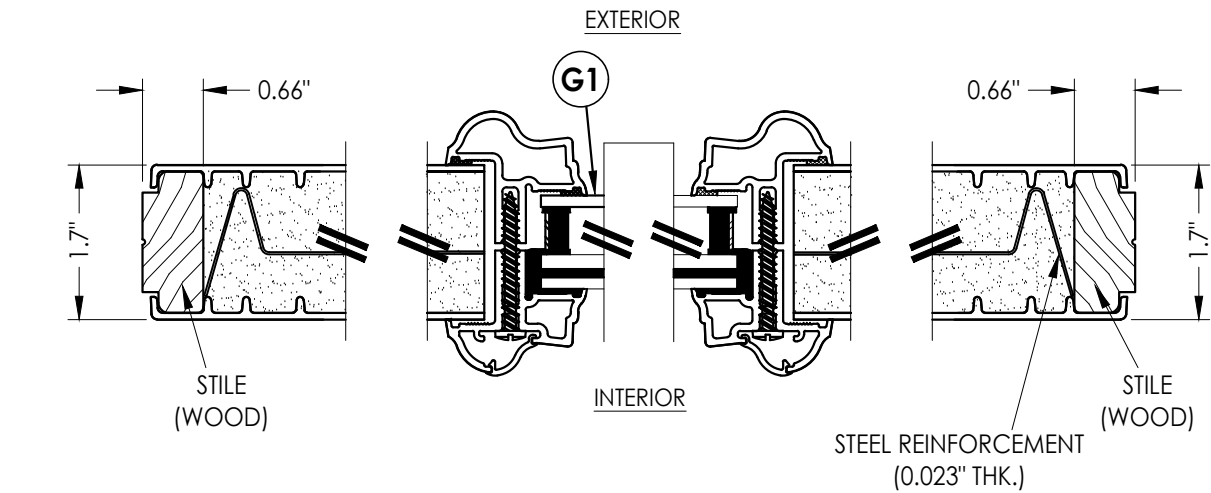
CT: THERMA-TRU
FIBERGLASS DOOR

DOOR ASSEMBLY:

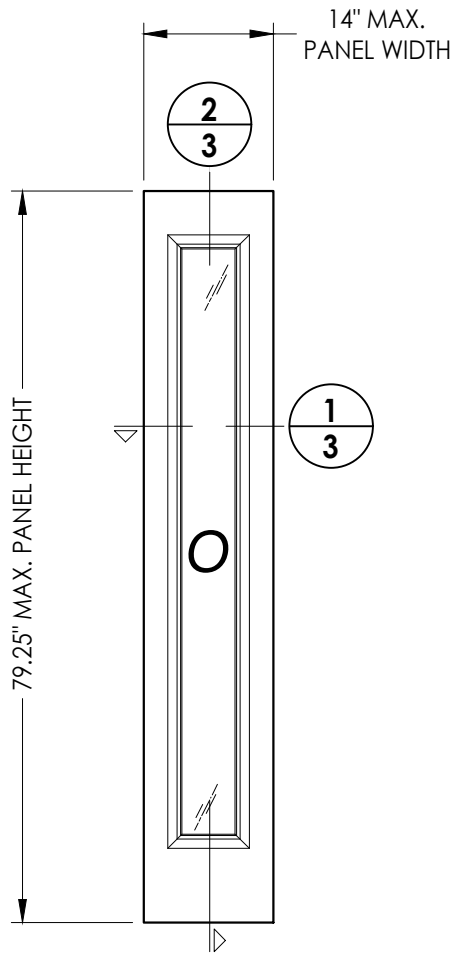
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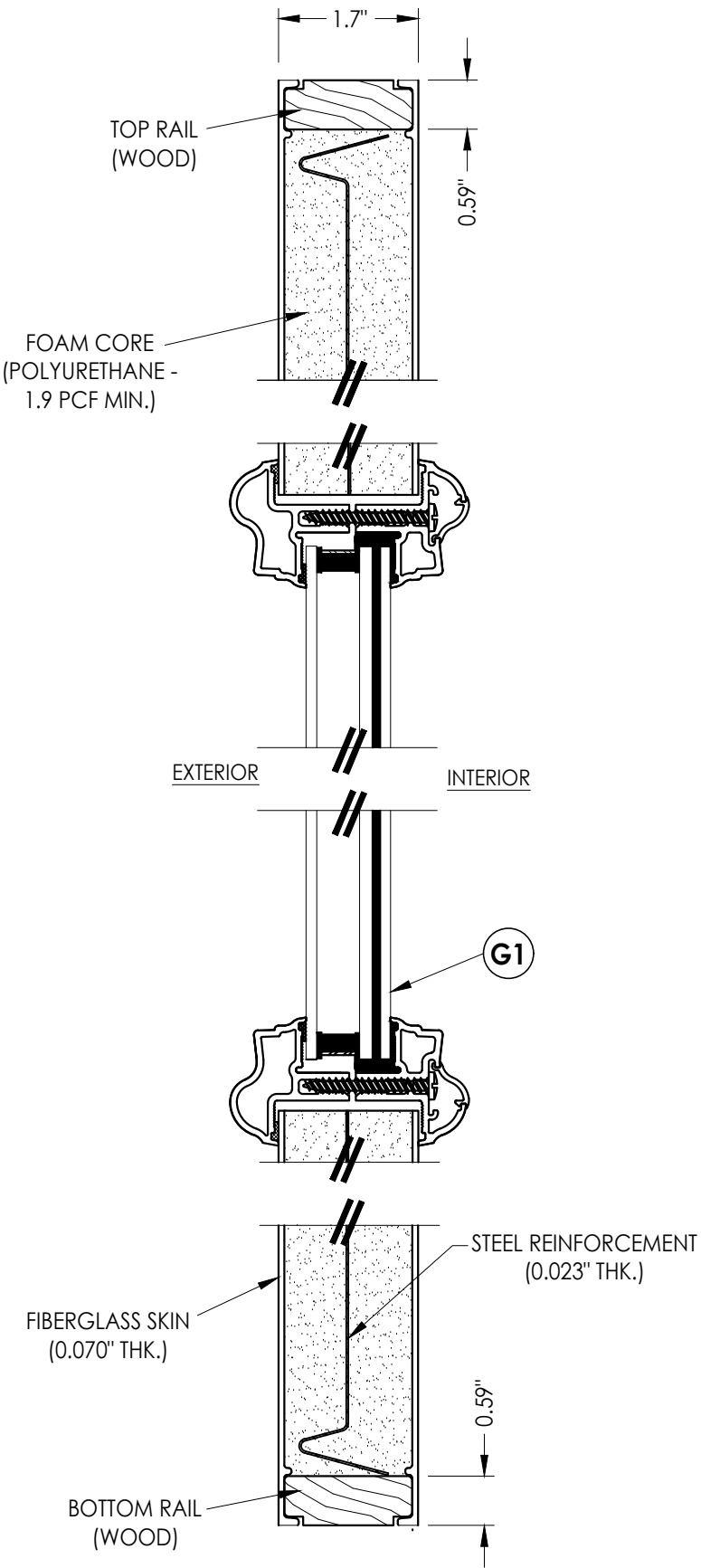
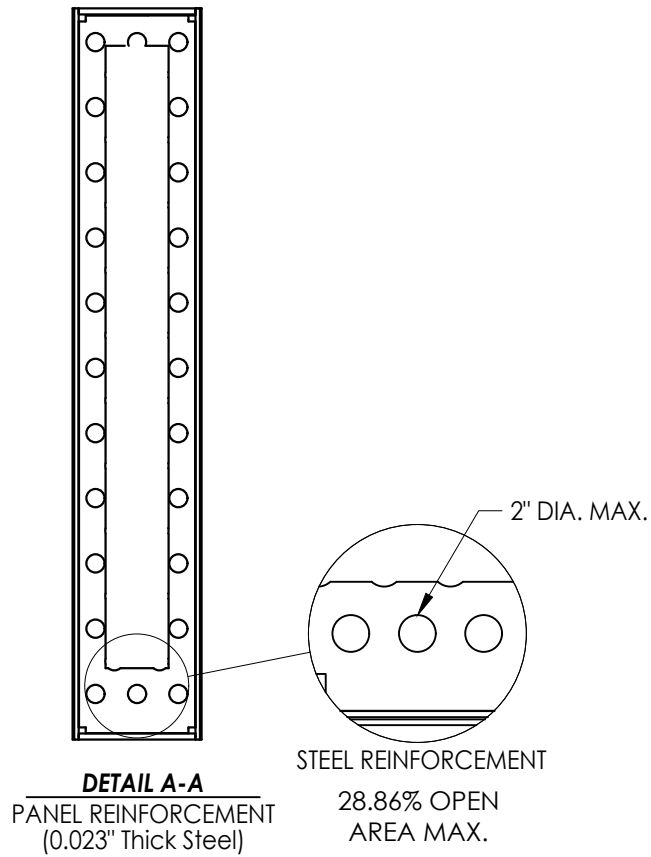
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1
3 **HORIZONTAL CROSS SECTION**



50 **SIDELITE PANEL**



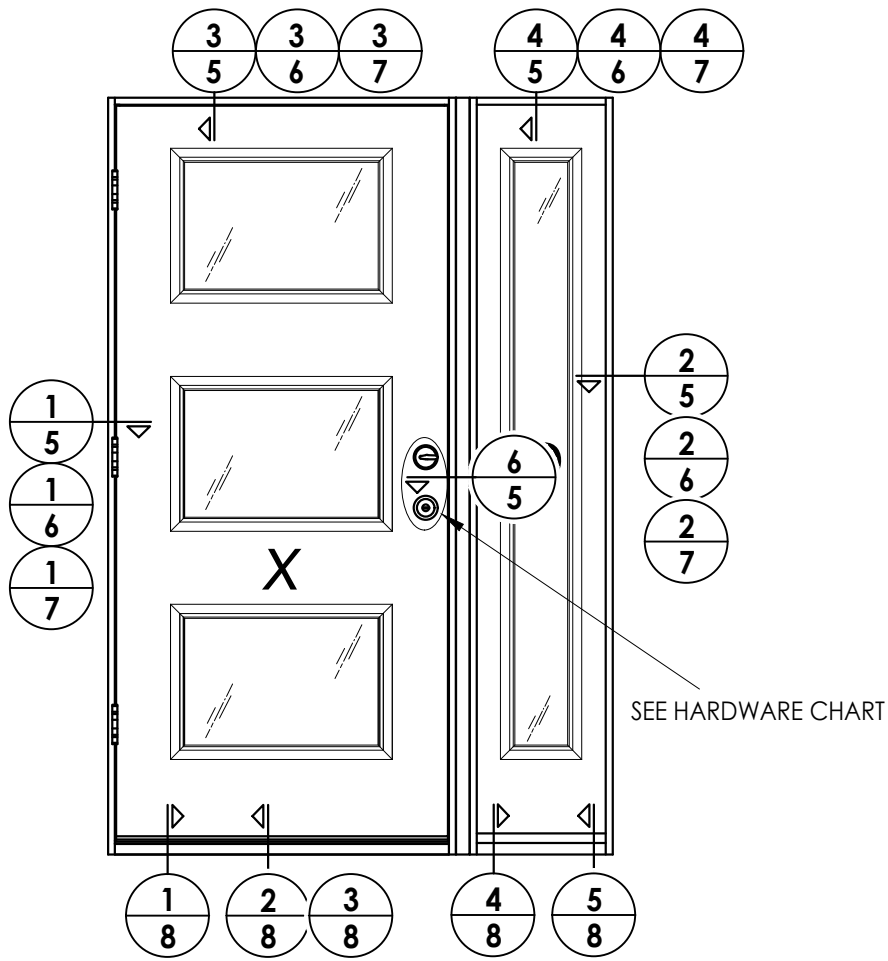
2
3 **VERTICAL CROSS SECTION**

DATE:		10/01/19
SCALE:		N.T.S.
DWG. BY:		RW
CHK. BY:		LFS
DRAWING NO.:		FL-30482.2
SHEET		3 OF 13

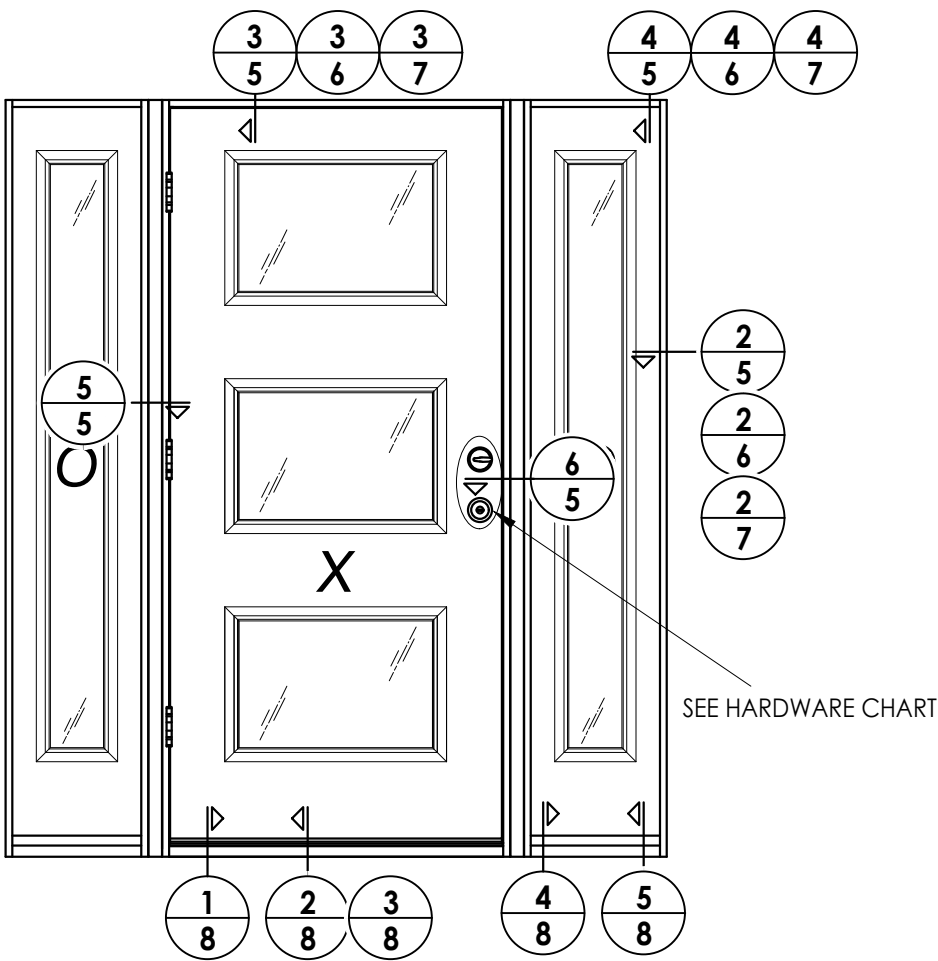
PRODUCT:		THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS

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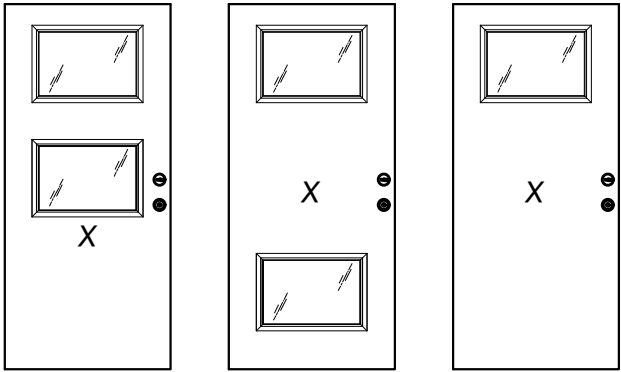
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ELEVATION
XO



ELEVATION
OXO



Fiber-Classic/Smooth-Star Door Panel Options
Panel options shown are for illustration and are representative only
(similar glazed panel configurations are allowed)

HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)	

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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

DATE: 10/01/19

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:
FL-30482.2

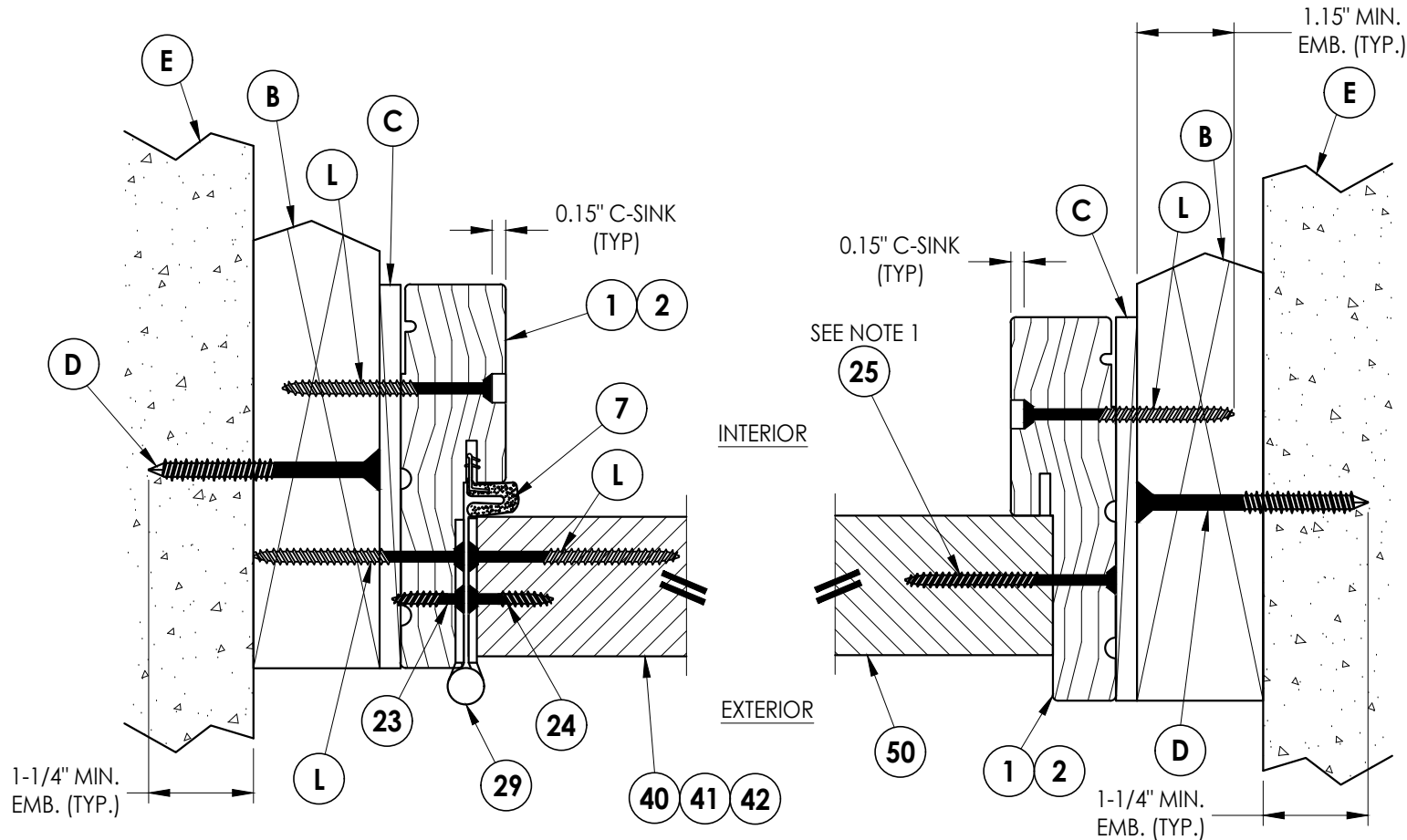
SHEET 4 OF 13

REVISIONS

NO.	DATE	BY
4	6/16/25	REVISE DIRECT TO MASONRY INST. LFS
3	7/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/23/20	UPDATE TO 7TH ED (2020) FBC LFS
1	5/20/20	ADD DOOR CUT DOWN OPTION LFS

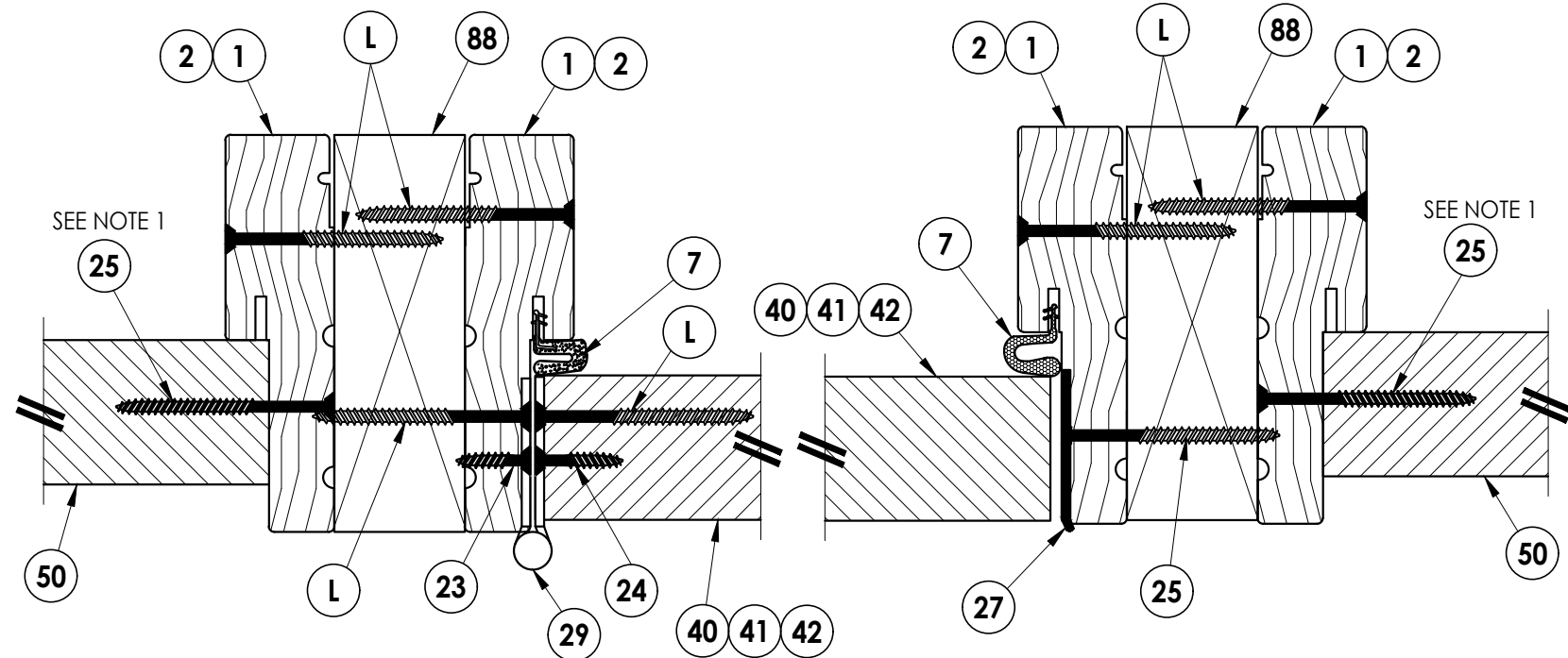
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1 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)

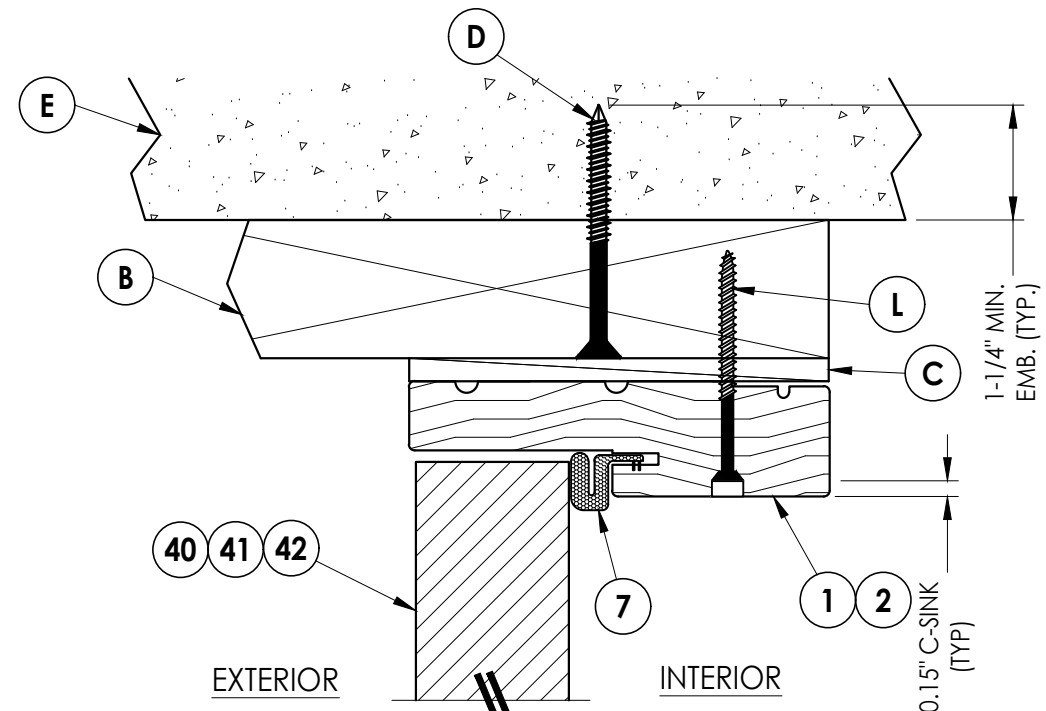
2 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



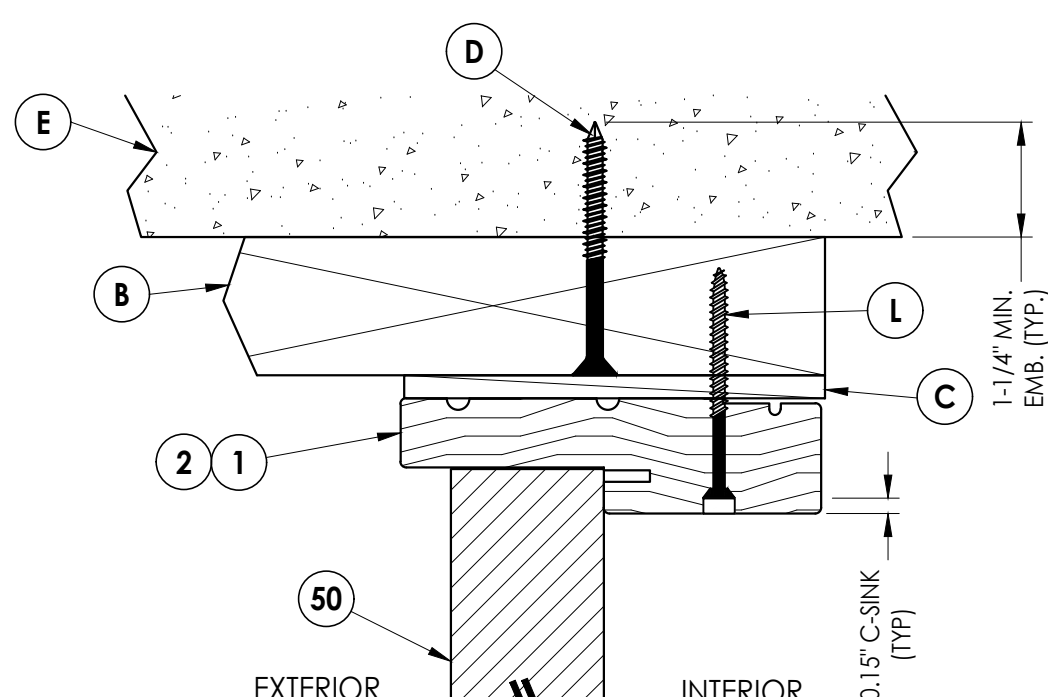
5 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)

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

Note:
1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).



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



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

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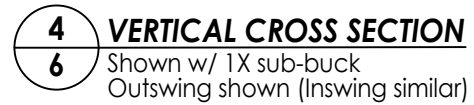
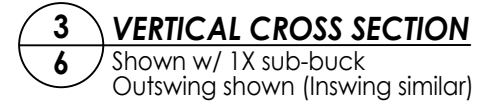
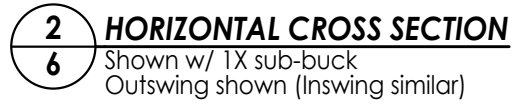
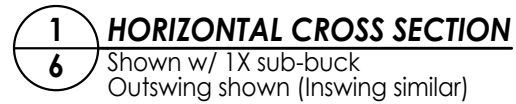
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
4	6/16/25	REVISE DIRECT TO MASONRY INST.
3	7/27/23	UPDATE TO 8TH ED. (2023) FBC
2	7/23/20	UPDATE TO 7TH ED. (2020) FBC
1	5/20/20	ADD DOOR CUT DOWN OPTION

DATE:	10/01/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-30482.2
SHEET	5 OF 13

1. Sidelite assembly screws located 6" from each end and 4 more screws equally spaced between (6 screws total per side jamb).



DATE:	10/01/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-30482.2
SHEET	6 OF 13

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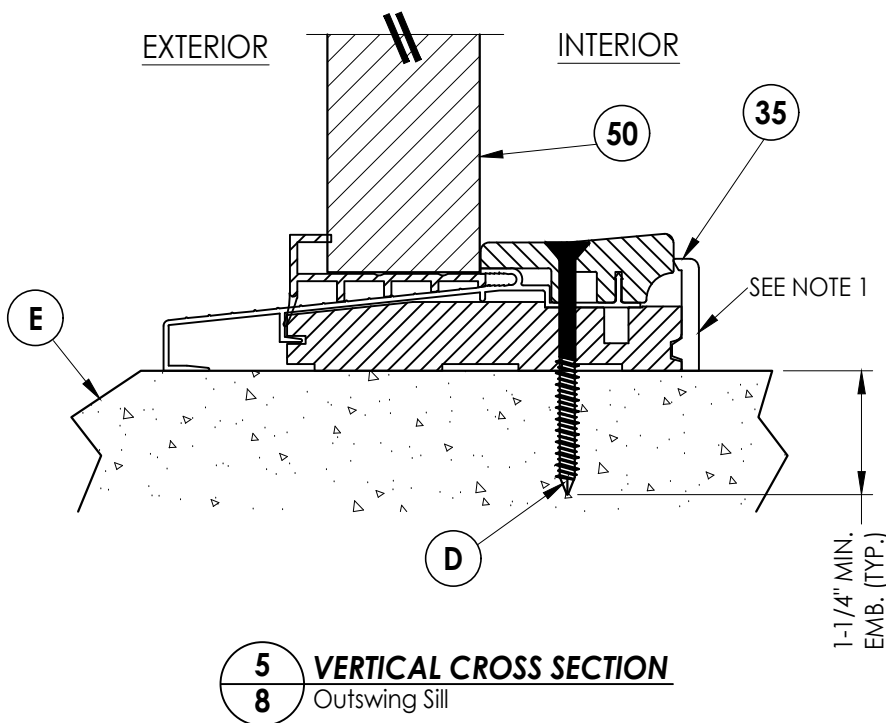
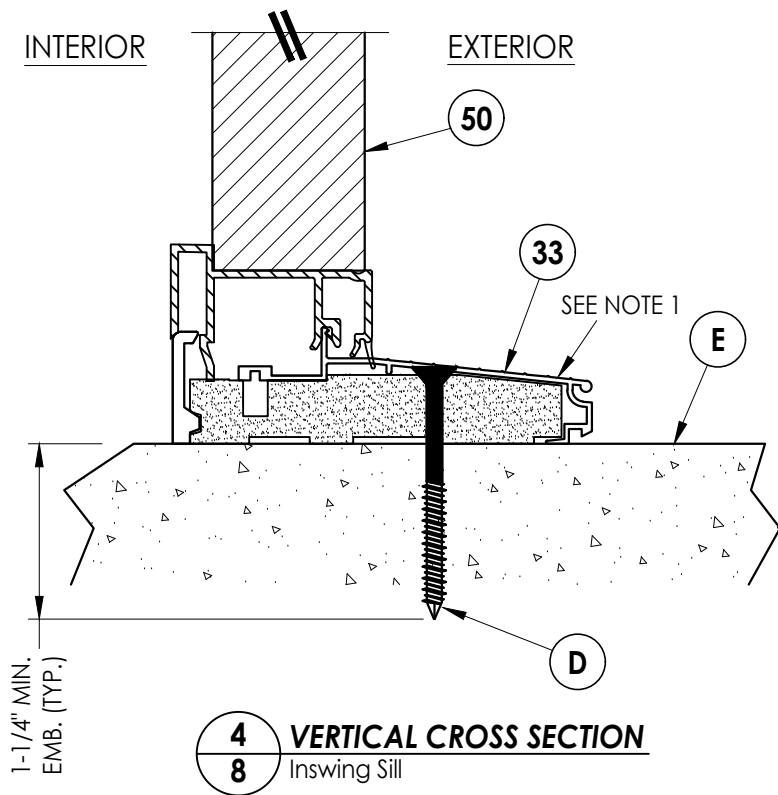
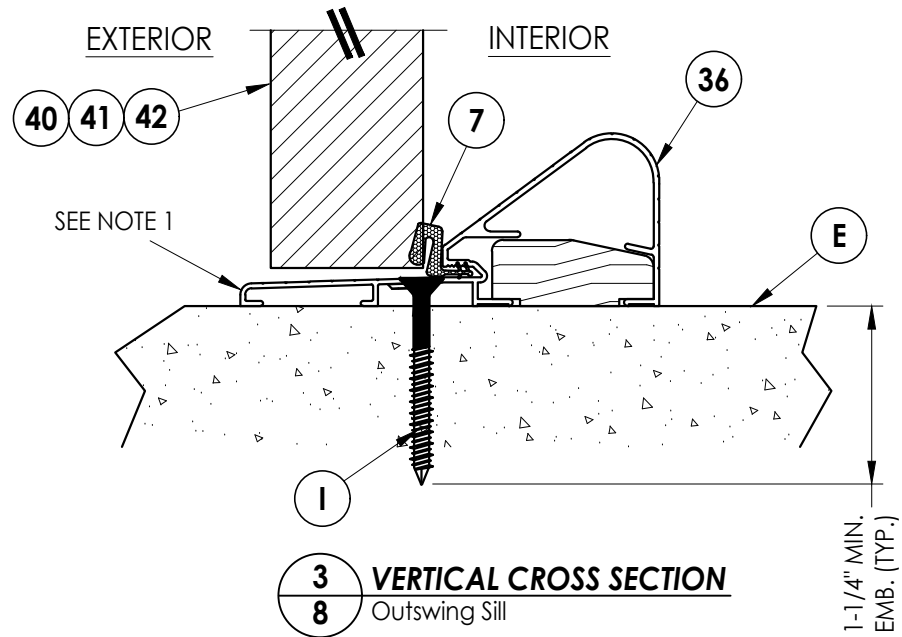
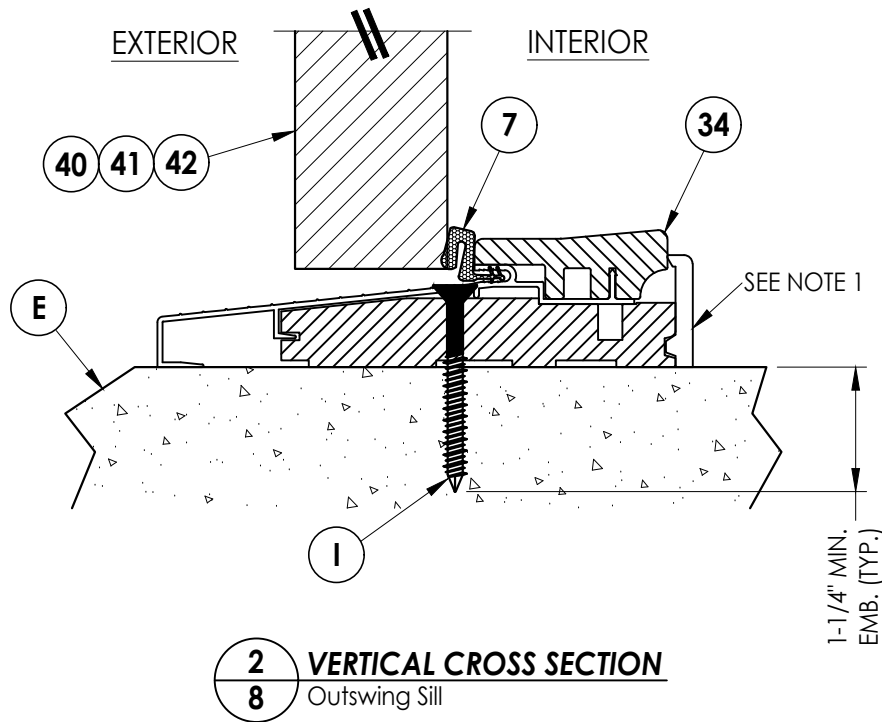
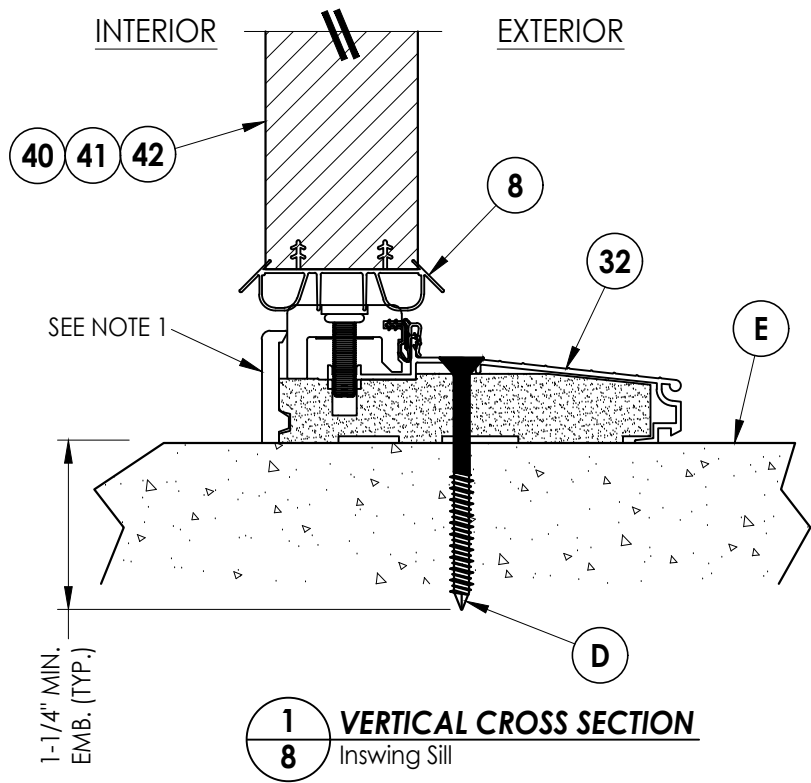
PART OR ASSEMBLY:

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Note:
1. Sill Item #'s 32, 33, 34 & 35 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 36 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.



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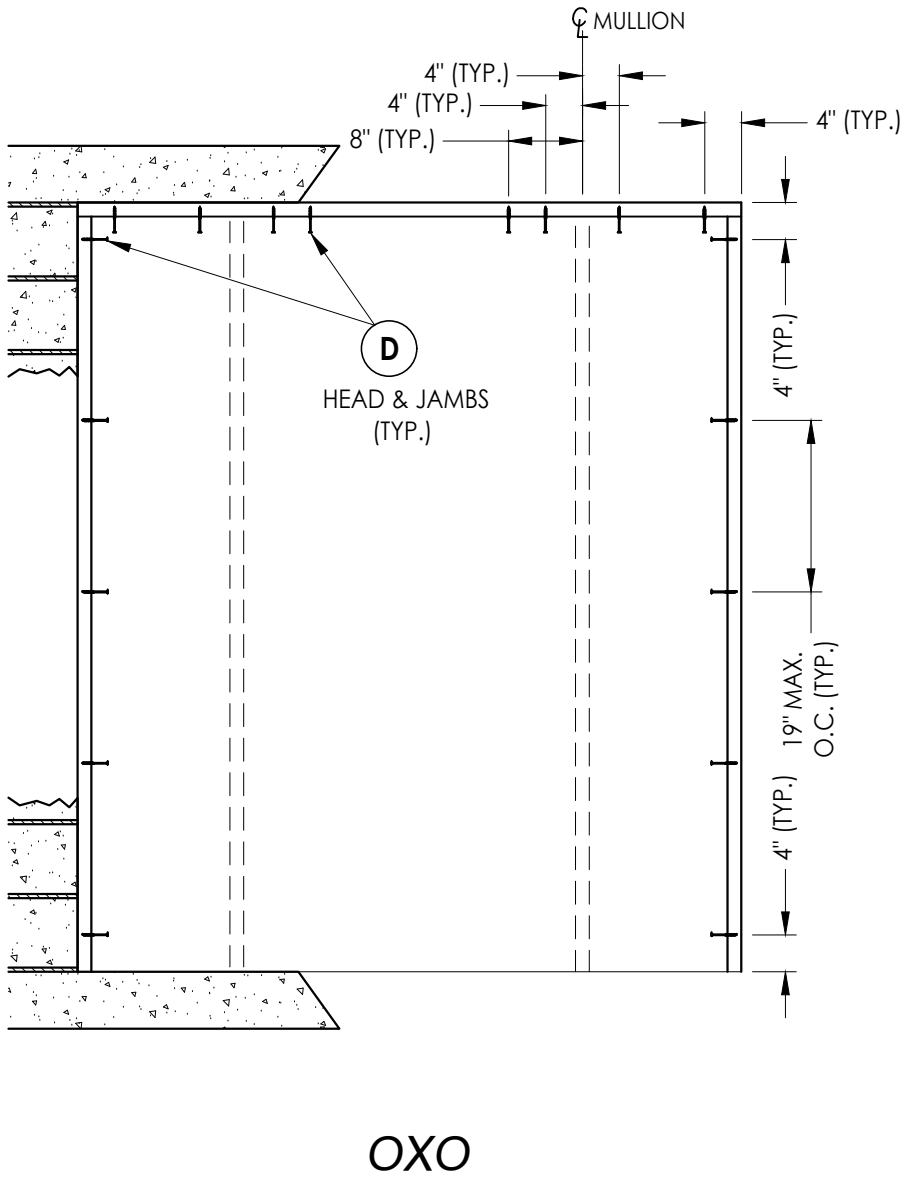
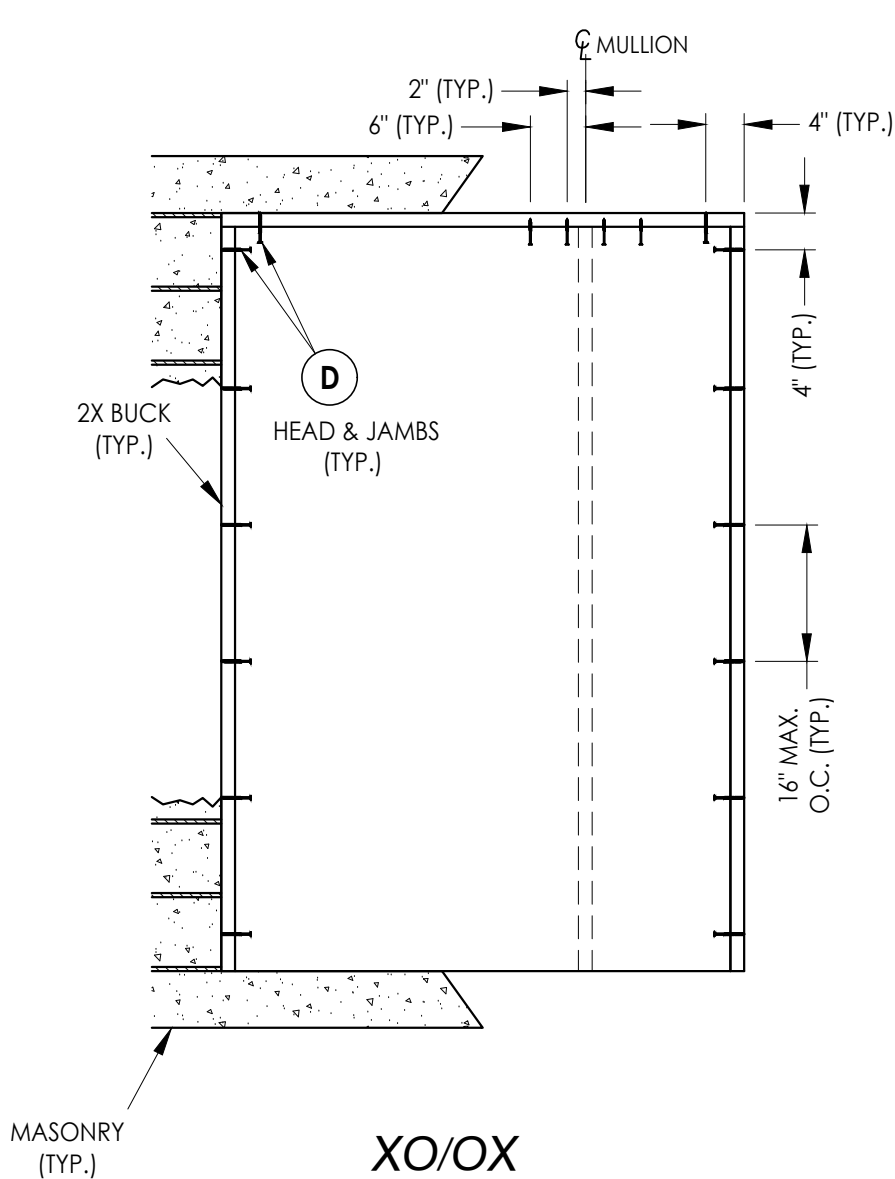
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Phone No.: 813.659.9197
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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
4	6/16/25	REVISE DIRECT TO MASONRY INST. LFS
3	7/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/23/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	5/20/20	ADD DOOR CUT DOWN OPTION LFS

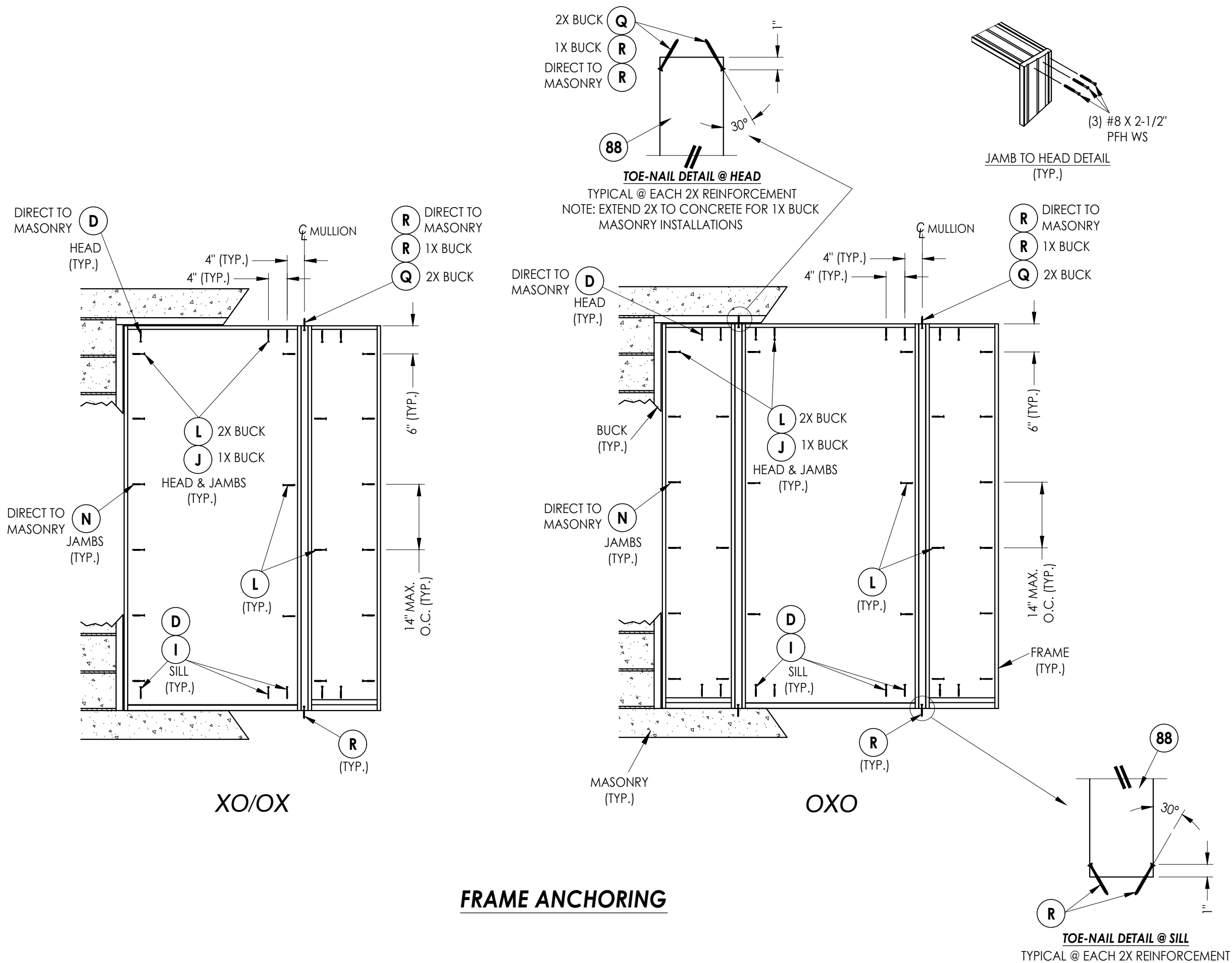
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SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-30482.2
SHEET 8 OF 13

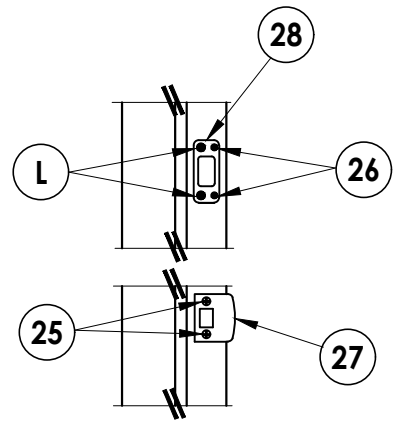


2X BUCK ANCHORING

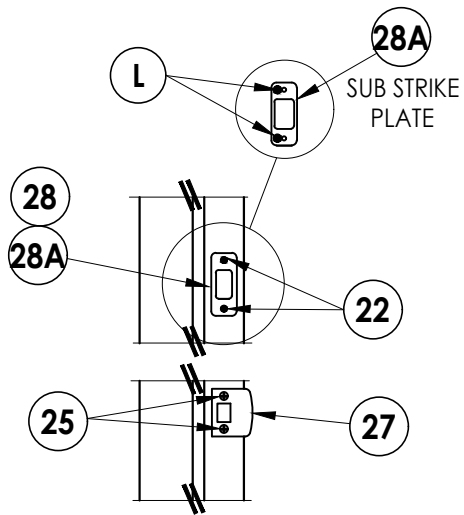
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				RWBUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry License No. 9813			
PRODUCT: THERMA-TRU FIBERGLASS DOOR				PART OR ASSEMBLY: BUCK ANCHORING			
4	6/16/25	REVISE DIRECT TO MASONRY INST.	LFS	REVISIONS			
3	7/27/23	UPDATE TO 8TH ED. (2023) FBC	LFS				
2	7/23/20	UPDATE TO 7TH ED (2020) FBC	LFS				
1	5/20/20	ADD DOOR CUT DOWN OPTION	LFS				
	NO.	DATE	BY				
DATE: 10/01/19							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-30482.2							
SHEET 9 OF 13							

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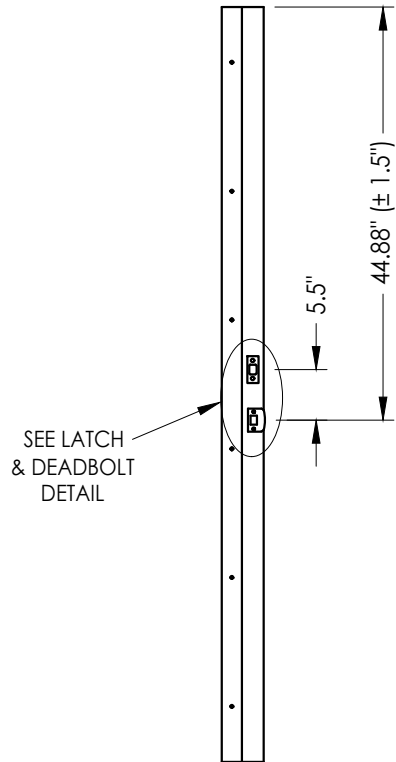




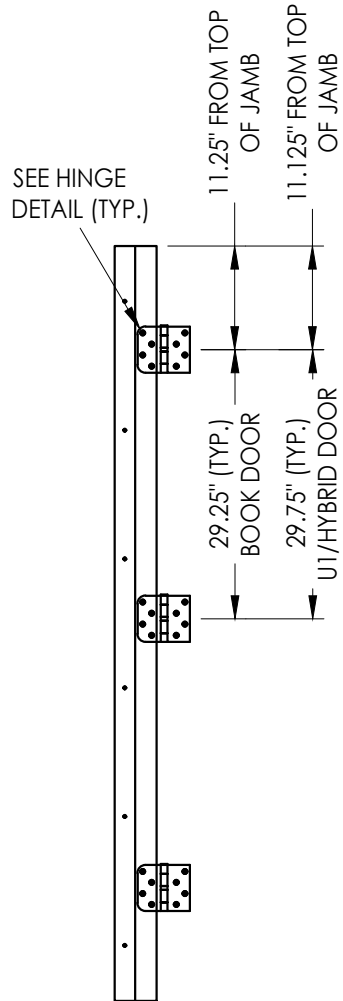
LATCH & DEADBOLT DETAIL
Kwikset



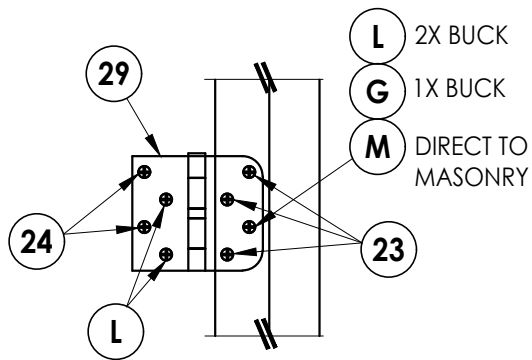
LATCH & DEADBOLT DETAIL
Schlage



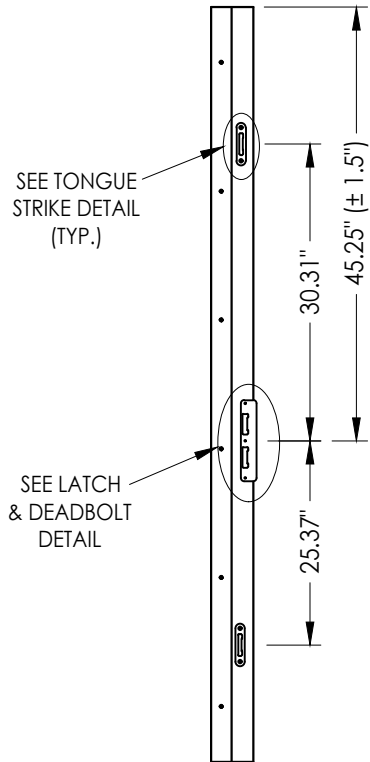
STRIKE JAMB
Latch and Deadbolt



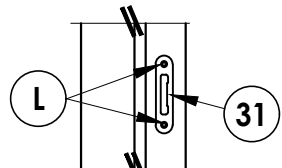
HINGE JAMB



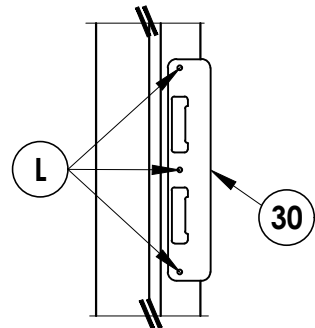
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

LATCH & DEADBOLT STRIKE DETAILS

MULTIPOINT LOCK STRIKE DETAILS

NO.	DATE	REVISIONS
4	6/16/25	REVISE DIRECT TO MASONRY INST. LFS
3	7/27/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/23/20	UPDATE TO 7TH ED (2020) FBC LFS
1	5/20/20	ADD DOOR CUT DOWN OPTION LFS
		BY

DATE: 10/01/19

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-30482.2

SHEET 11 OF 13

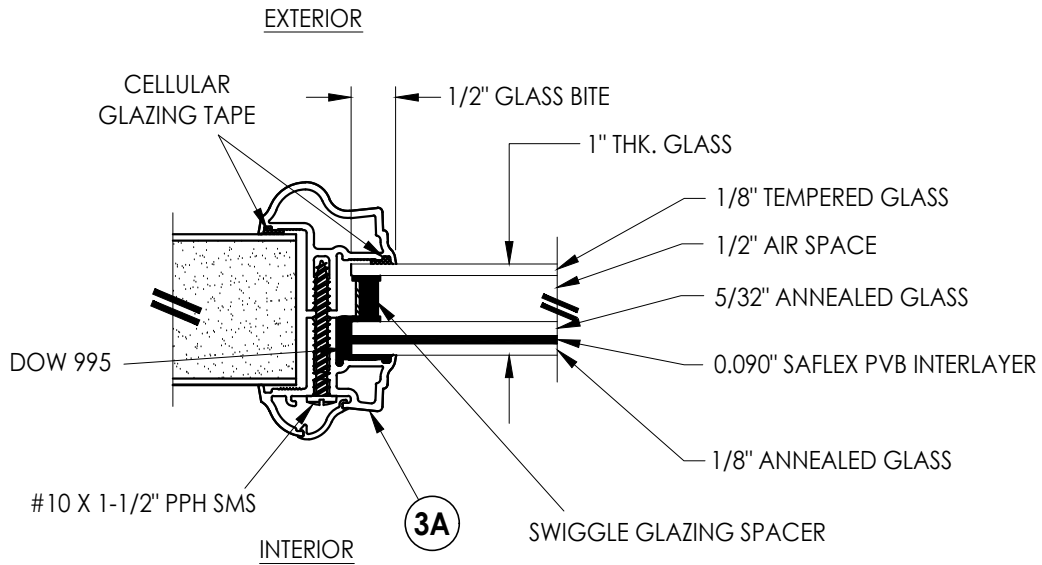
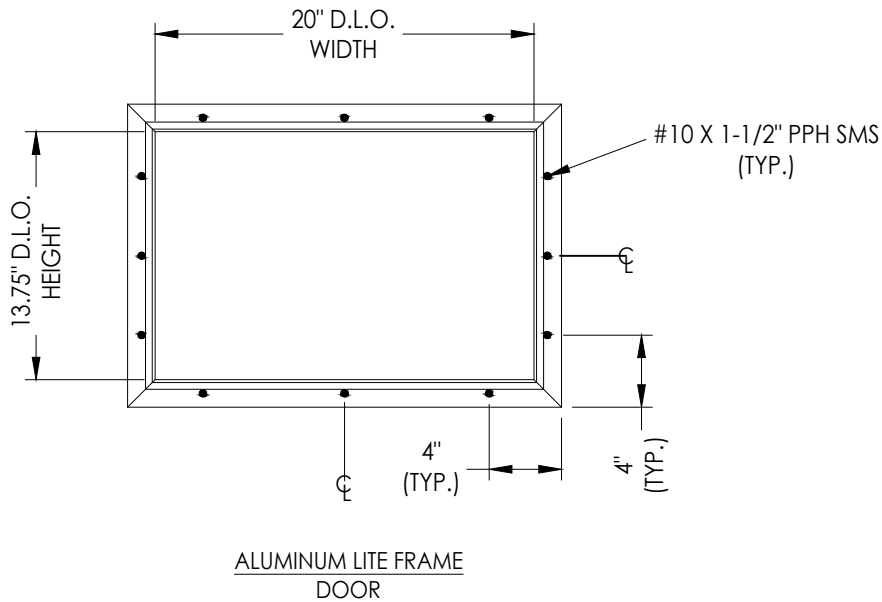
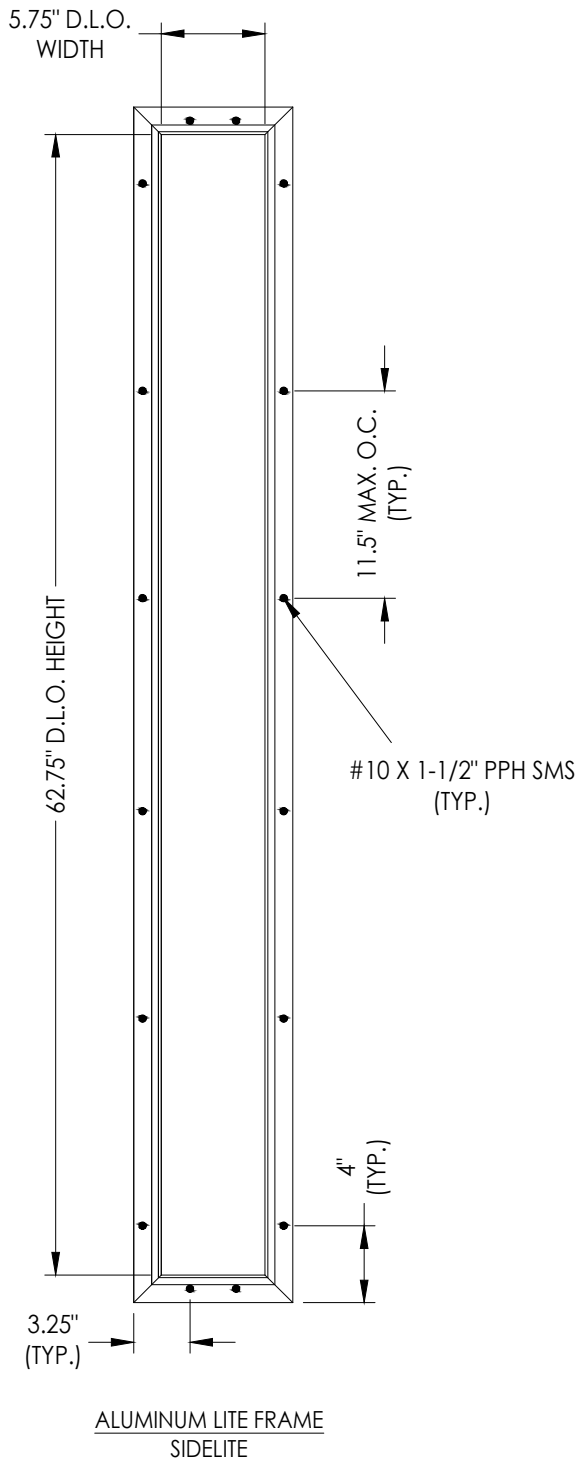
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

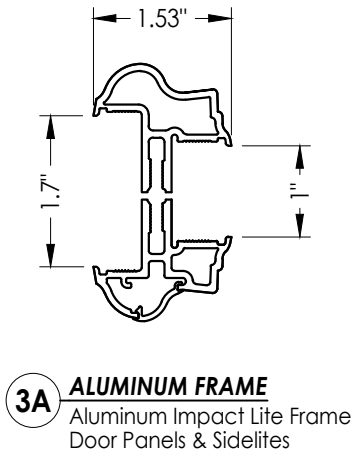
PART OR ASSEMBLY:

HARDWARE DETAILS

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
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G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



DATE: 10/01/19	
SCALE: N.T.S.	
DWG. BY: RW	
CHK. BY: LFS	
DRAWING NO.: FL-30482.2	
SHEET 12	OF 13

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
	PART OR ASSEMBLY:
	GLAZING DETAILS

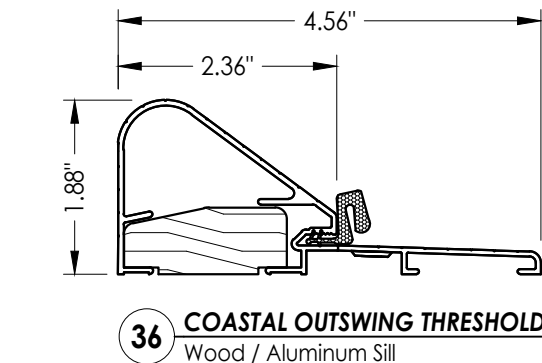
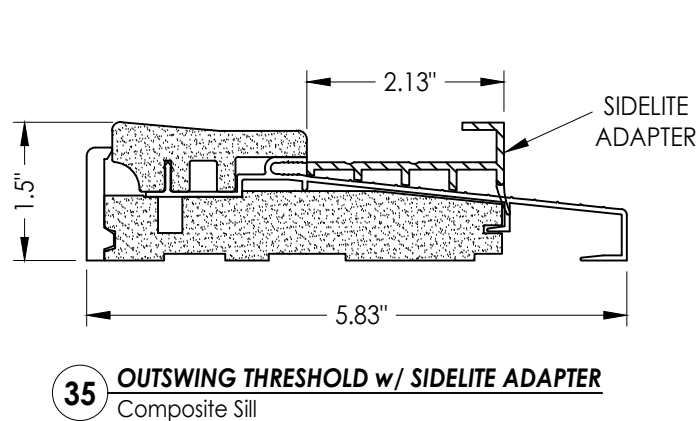
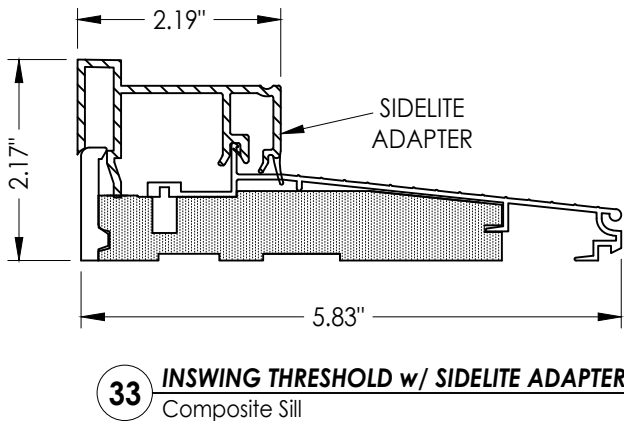
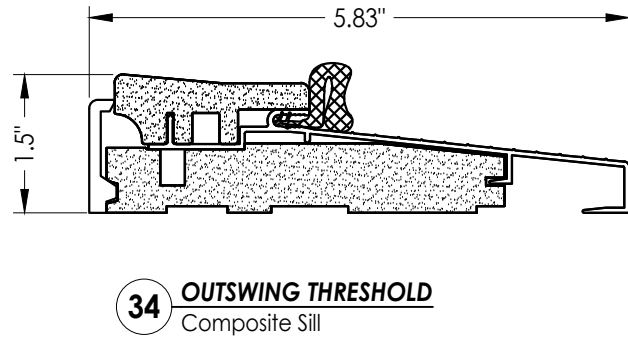
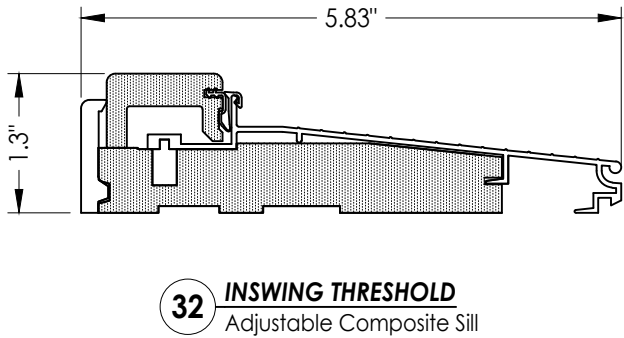
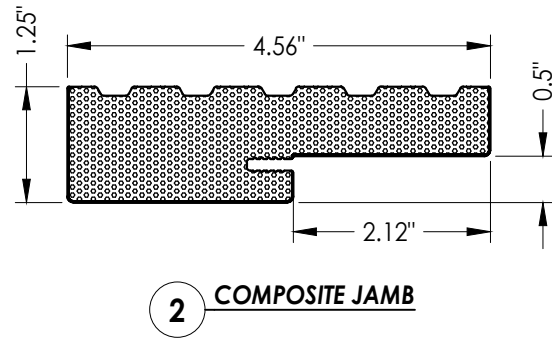
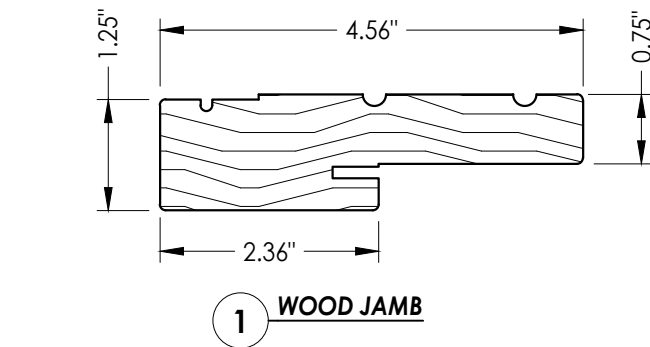
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2	7/23/20	UPDATE TO 7TH ED (2020) FBC	LFS
1	5/20/20	ADD DOOR CUT DOWN OPTION	LFS

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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 License No. 9813

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	3/16" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL
I	1/4" X 2-1/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	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
Q	#10 X 3" PFH WOOD SCREW (1.75" MIN. EMBEDMENT)	STEEL
R	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
1	WOOD JAMB (FINGER JOINT PINE)	WOOD
2	COMPOSITE JAMB	COMP.
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
22	#8 X 3/4" PFH WOOD SCREW	STEEL
23	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#9 X 1" PFH WOOD SCREW	STEEL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	STEEL
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	STEEL
32	INSWING THRESHOLD	ALUM/COMP
33	INSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
34	OUTSWING THRESHOLD	ALUM/COMP
35	OUTSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
36	COASTAL OUTSWING THRESHOLD	ALUM/WOOD
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE PANEL	-
88	2X REINFORCEMENT (SG = 0.55)	WOOD



- CONCRETE ANCHOR NOTES:**
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
 - Concrete anchor locations noted as "MAX. ON CENTER" 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.
 - 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"	3" or AS SHOWN	1-1/2"

- WOOD SCREW INSTALLATION NOTES:**
- 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		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry License No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: BILL OF MATERIALS	
4	6/16/25	REVISE DIRECT TO MASONRY INST.	LFS
3	7/27/23	UPDATE TO 8TH ED. (2023)	FBC
2	7/23/20	UPDATE TO 7TH ED (2020)	FBC
1	5/20/20	ADD DOOR CUT DOWN OPTION	LFS
NO.	DATE		BY
REVISIONS			
DATE: 10/01/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-30482.2			
SHEET 13 OF 13			