



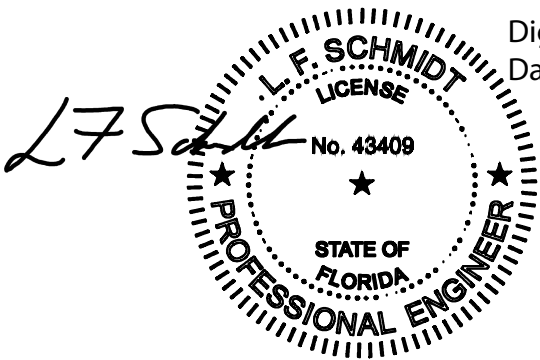
Fiber-Classic® & Smooth-Star®

CUT DOWN WOOD EDGE
GLAZED FIBERGLASS SINGLE DOOR
w/ SIDELITE(S)
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 #19) & Composite Sill (item #16) 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.

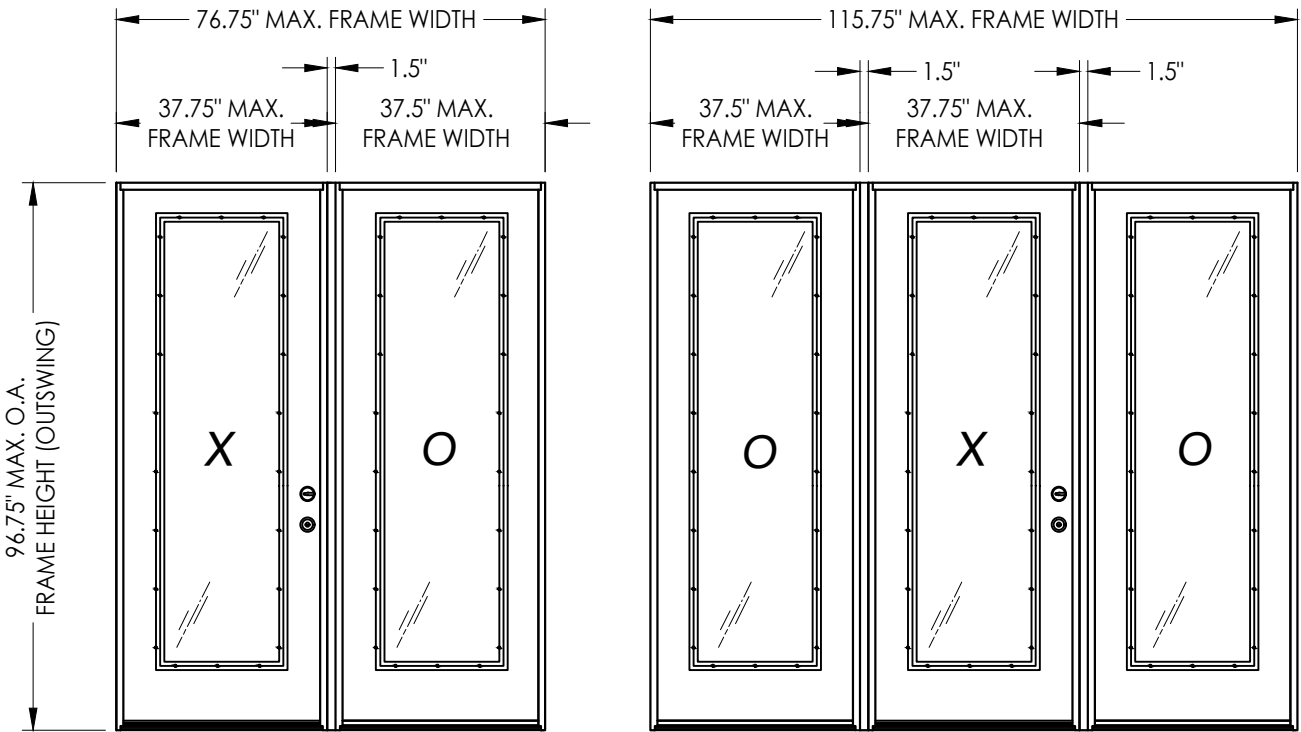
TABLE OF CONTENTS			
SHEET#	DESCRIPTION	SHEET#	
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2	Door Panel Details	9	Buck Anchoring
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6	Horizontal & Vertical Cross Sections (1X Buck)	13	Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials



Digitally signed by Lyndon F Schmidt
Date: 2023.08.18 08:56:51 -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	LOCK HARDWARE	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
XO, OX, OXO	Latch & Deadbolt	+45.0	-45.0
XO, OX, OXO	Multipoint	+55.0	-55.0

See Sheet 3 for Hardware Specifications

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

THERMA-TRU
FIBERGLASS DOOR

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

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

7/15/20
UPDATE TO 7th ED (2020) FBC

NO. DATE

REVISIONS

DATE: 08/12/19

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

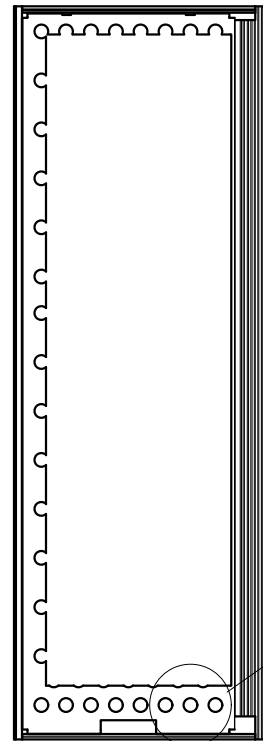
DRAWING NO.: FL-30077.11

SHEET 1 OF 14

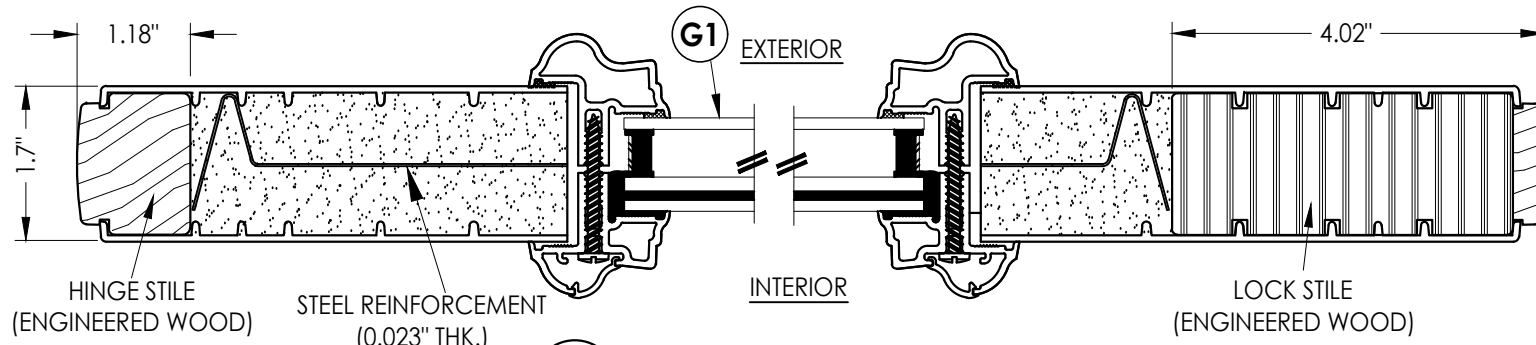
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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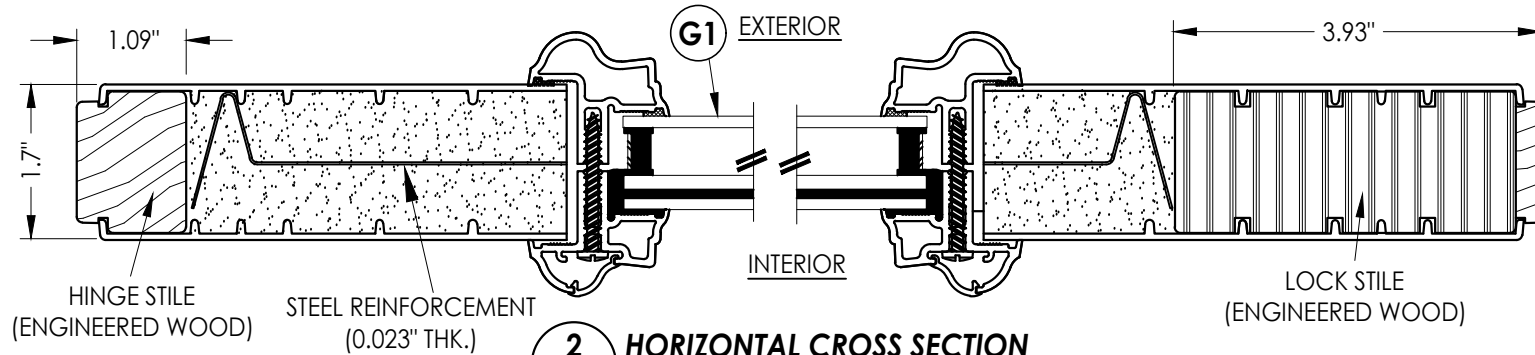
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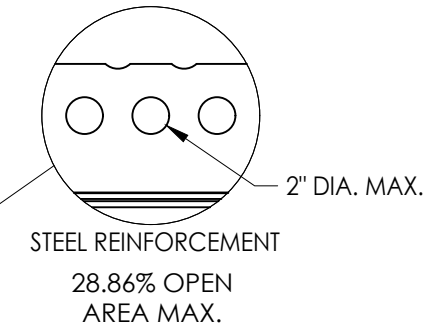
DETAIL A-A
PANEL REINFORCEMENT
(0.023\"



1 2 HORIZONTAL CROSS SECTION

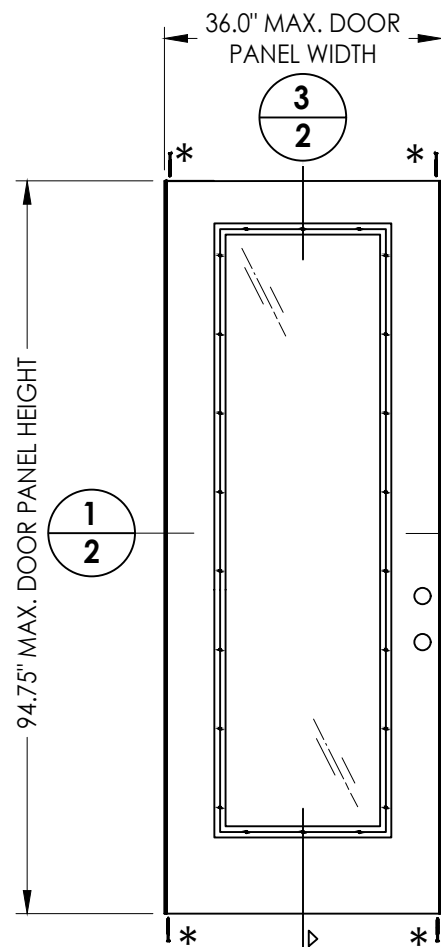


2 2 HORIZONTAL CROSS SECTION

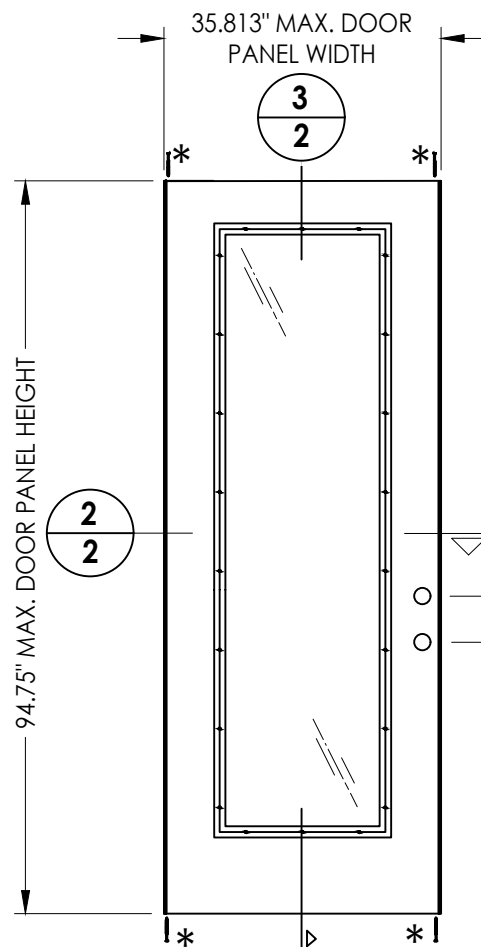


STEEL REINFORCEMENT
28.86% OPEN
AREA MAX.

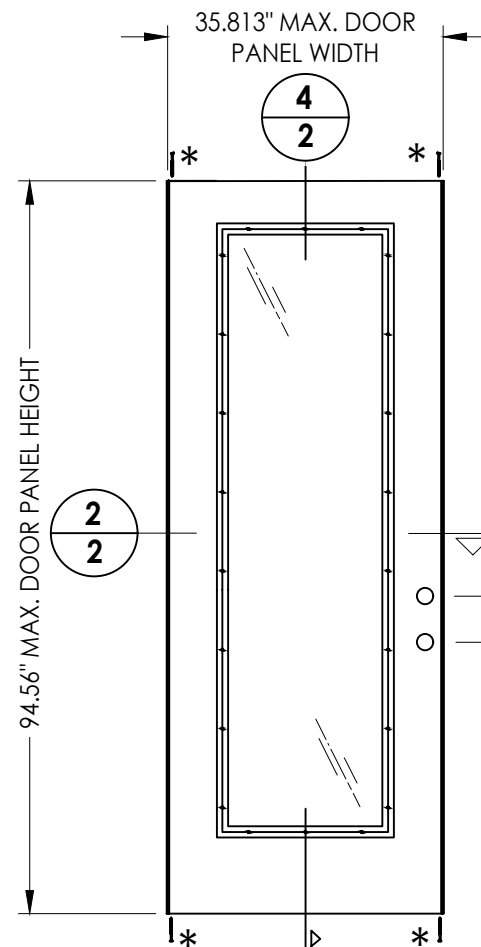
* #8 X 2.5\"



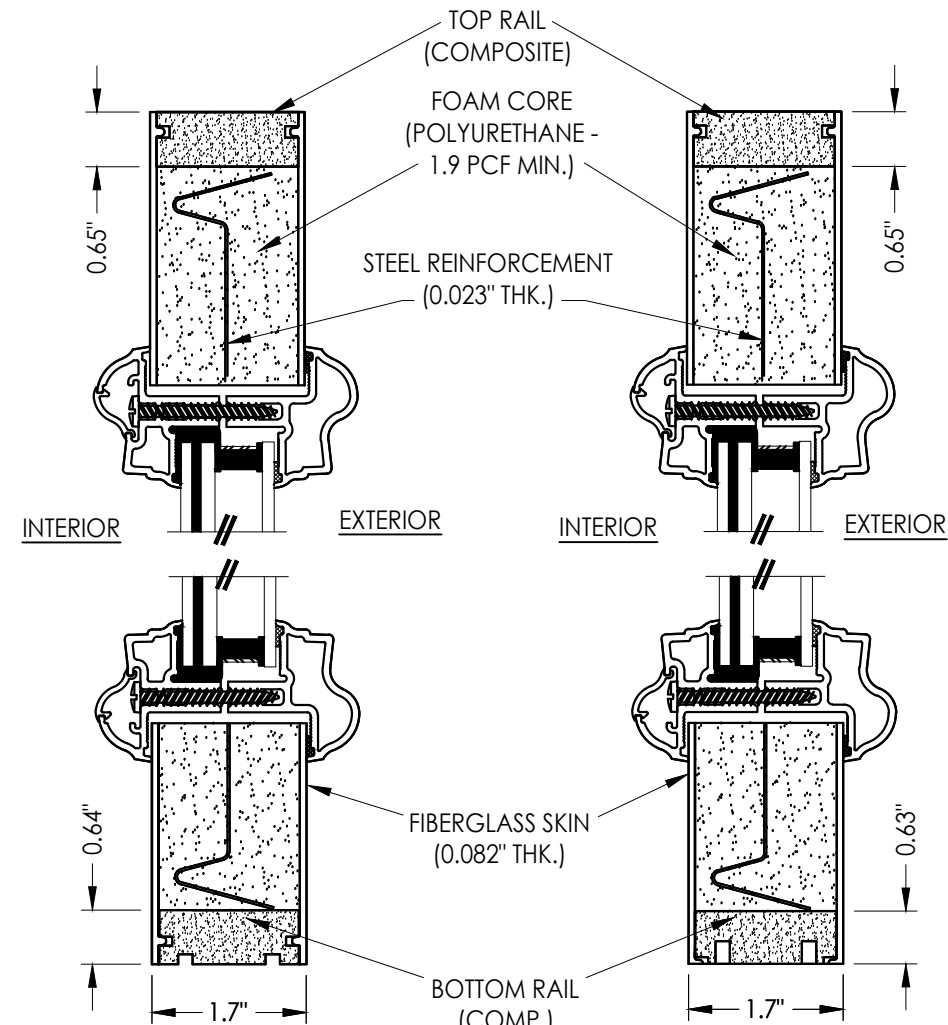
40 DOOR PANEL
BOOK



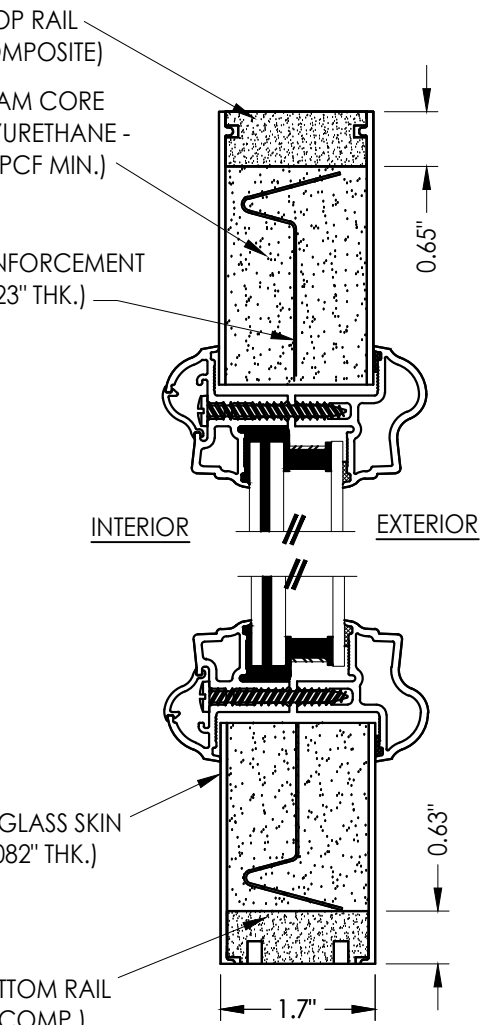
41 DOOR PANEL
Hybrid Door



42 DOOR PANEL
U1 Door



3 2 VERTICAL CROSS SECTION



4 2 VERTICAL CROSS SECTION

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

PART OR ASSEMBLY:
DOOR PANEL DETAILS

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

DATE: 08/12/19

SCALE: N.T.S.

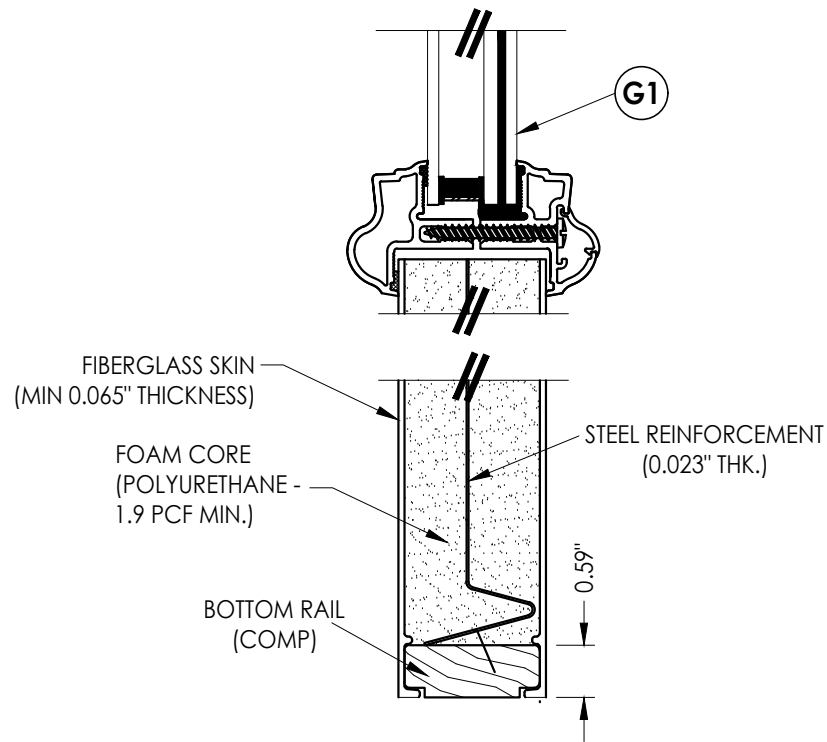
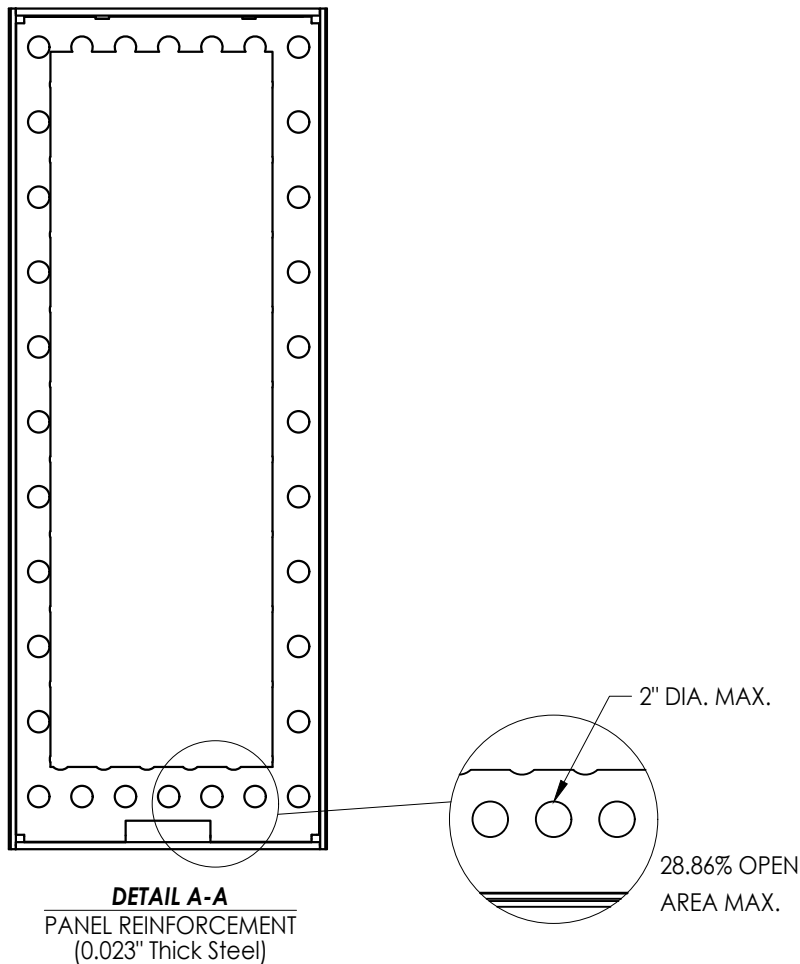
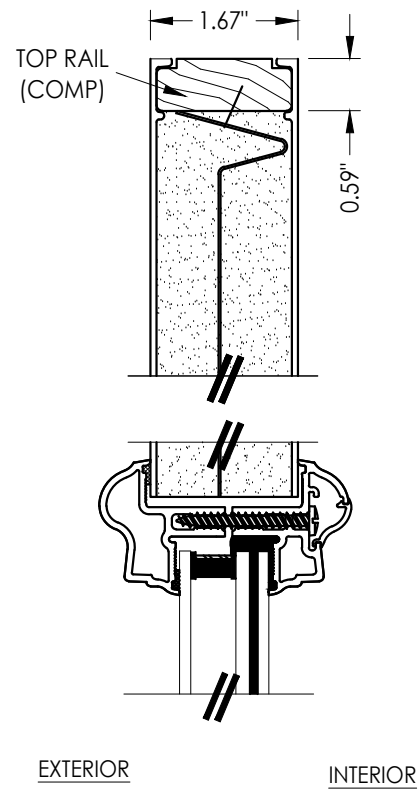
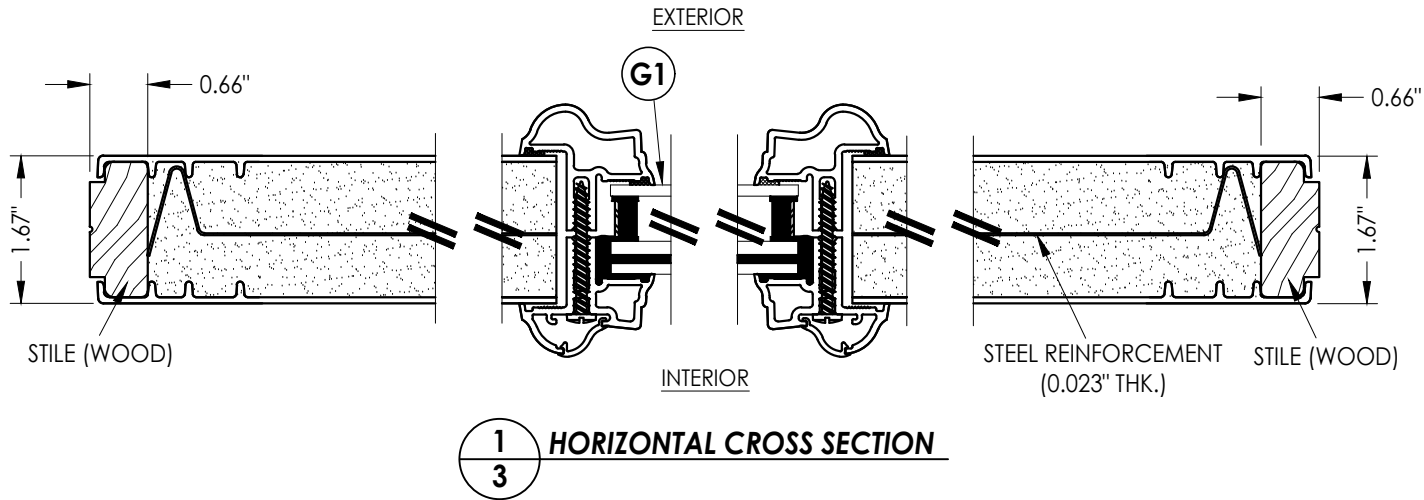
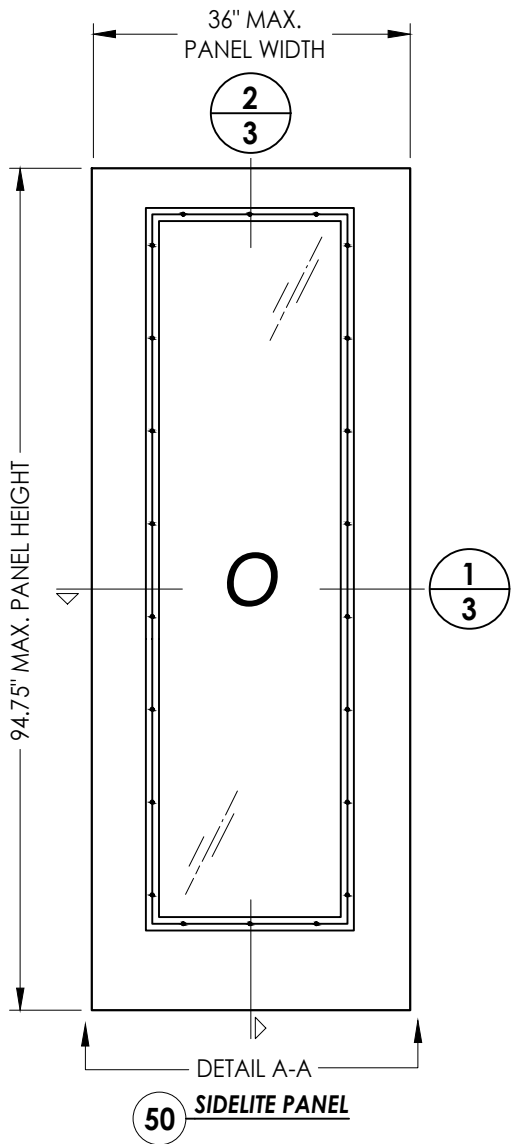
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-30077.11

SHEET 2 OF 14

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



DATE:	08/12/19
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-30077.11
SHEET	<u>4</u> OF <u>14</u>

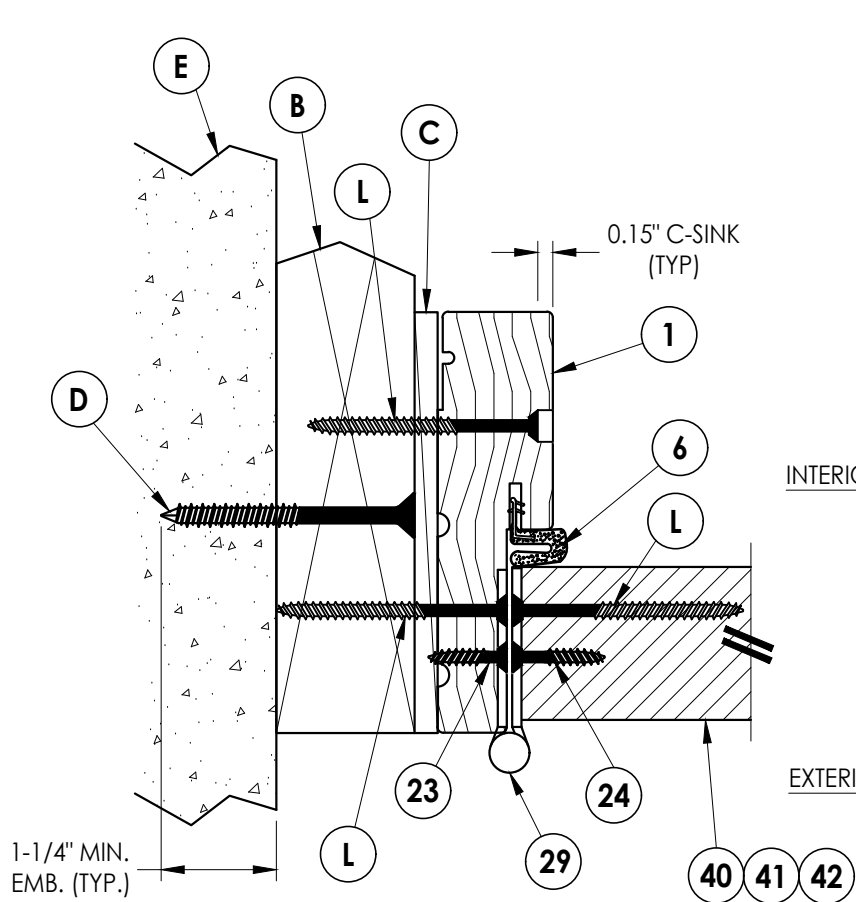
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PART OR ASSEMBLY:

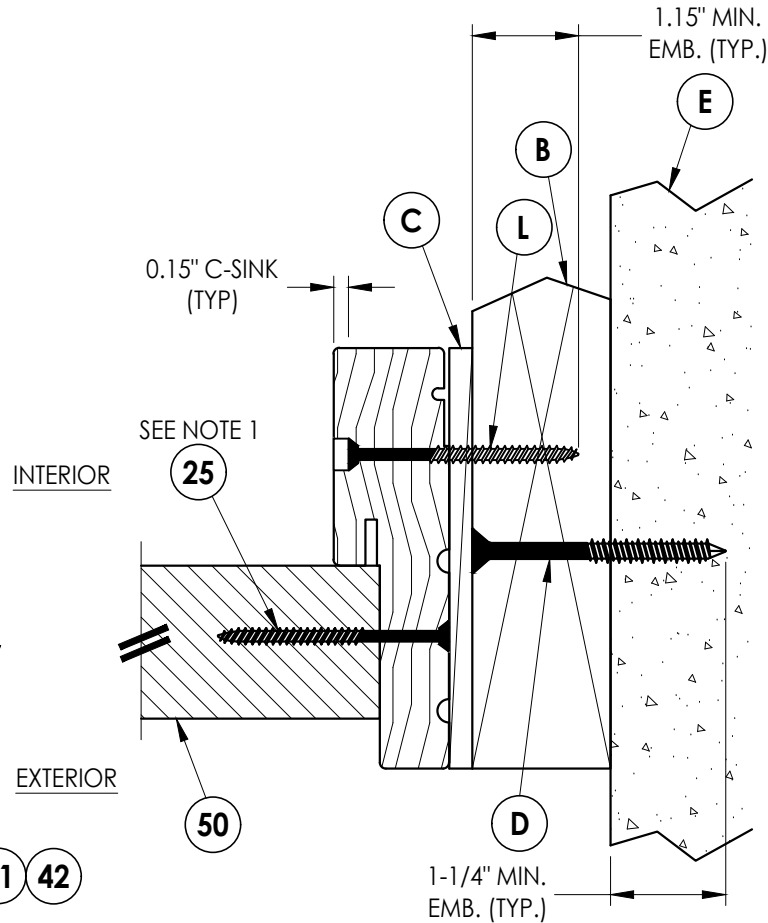
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NO.	DATE			BY
REVISIONS				

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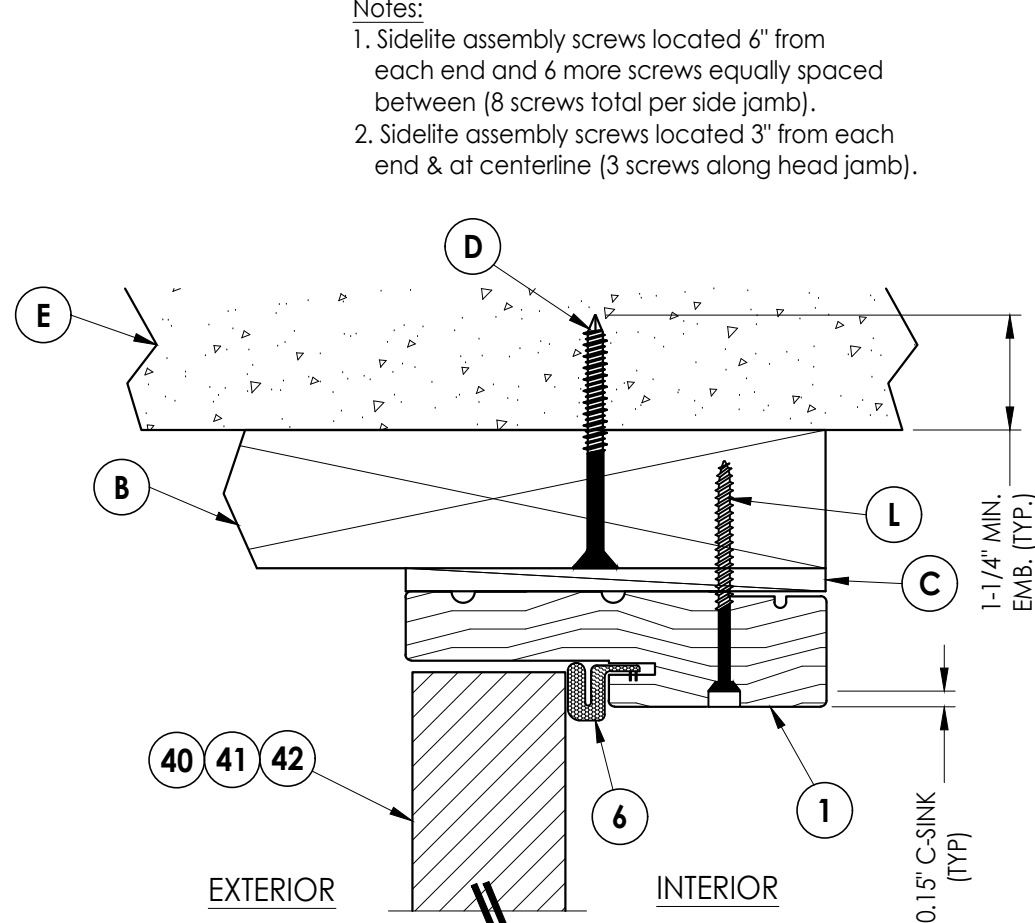
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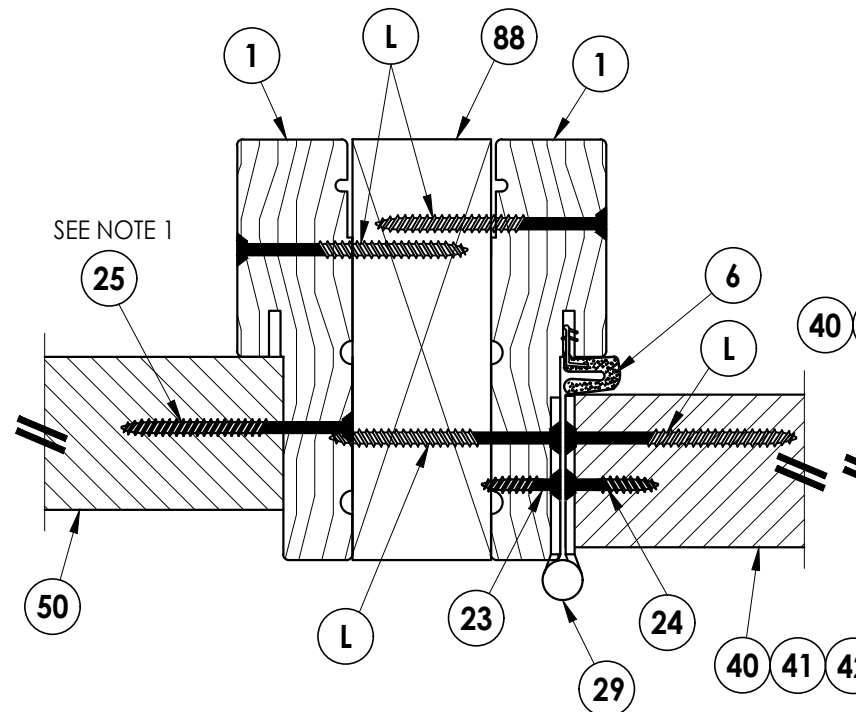
1
5 HORIZONTAL CROSS SECTION



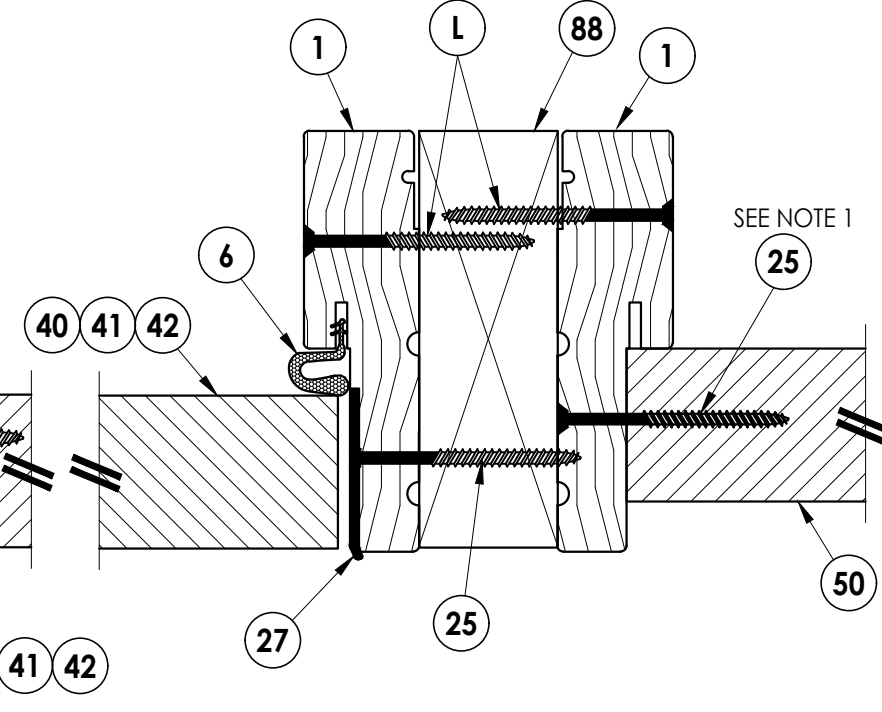
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5 HORIZONTAL CROSS SECTION



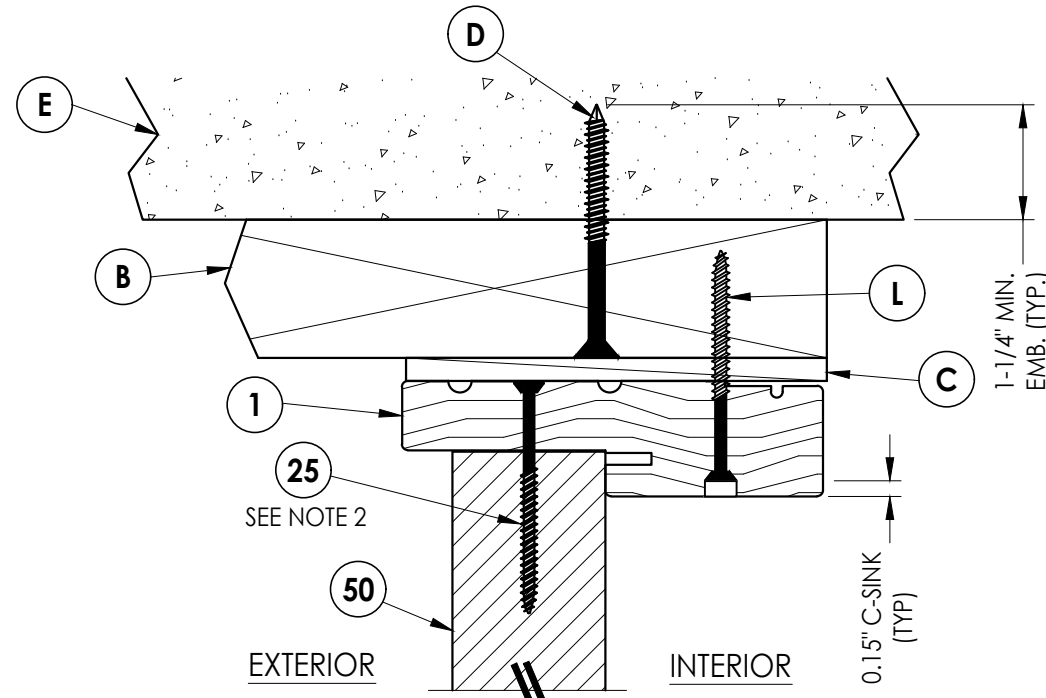
3
5 VERTICAL CROSS SECTION



5
5 HORIZONTAL CROSS SECTION



6
5 HORIZONTAL CROSS SECTION



4
5 VERTICAL CROSS SECTION

Notes:

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

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

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X 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: 08/12/19

SCALE: N.T.S.

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CHK. BY: LFS

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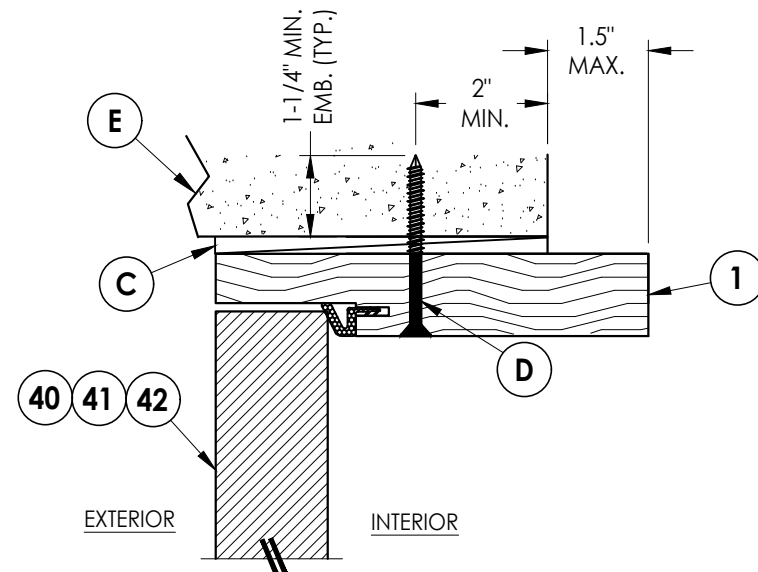
FL-30077.11

SHEET 5 OF 14

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



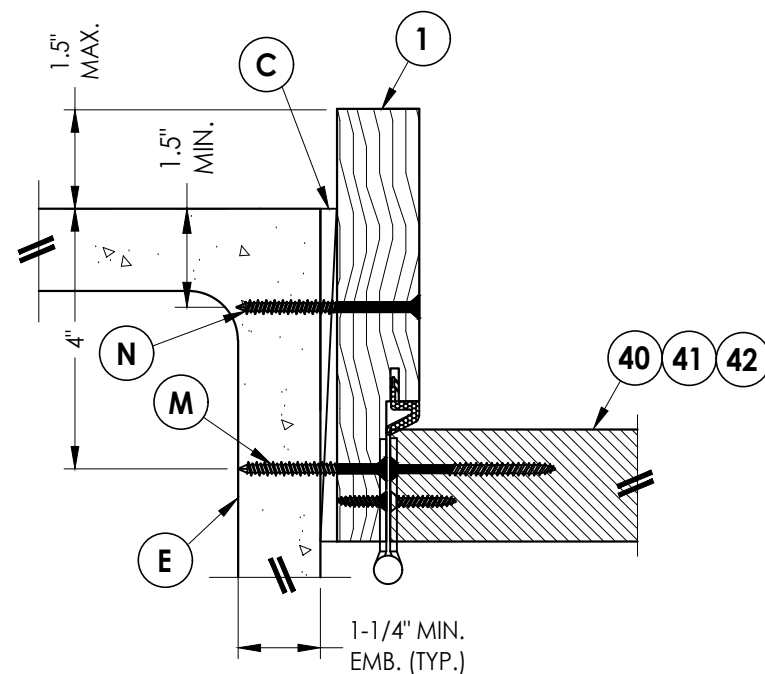
DATE: 08/12/19		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		THERMA-TRU		Lyndon F. Schmidt	
DWG. BY: JK		FIBERGLASS DOOR		P.E. No. 43409	
CHK. BY: LFS		PART OR ASSEMBLY:		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-30077.11		HORIZONTAL & VERTICAL			
SHEET 6 OF 14		CROSS SECTIONS (1X BUCK)			
NO. DATE		2 8/17/23 UPDATE TO 8TH ED. (2023) FBC LFS			
		1 7/15/20 UPDATE TO 7th ED (2020) FBC PO			
REVISIONS		BY			



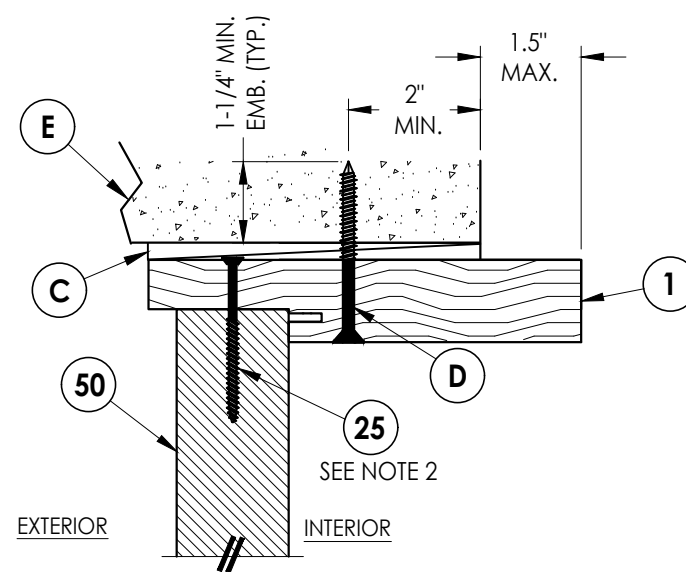
3 **HORIZONTAL CROSS SECTION**
7 Shown Direct to Masonry
w/ 6-9/16" jamb

Notes:

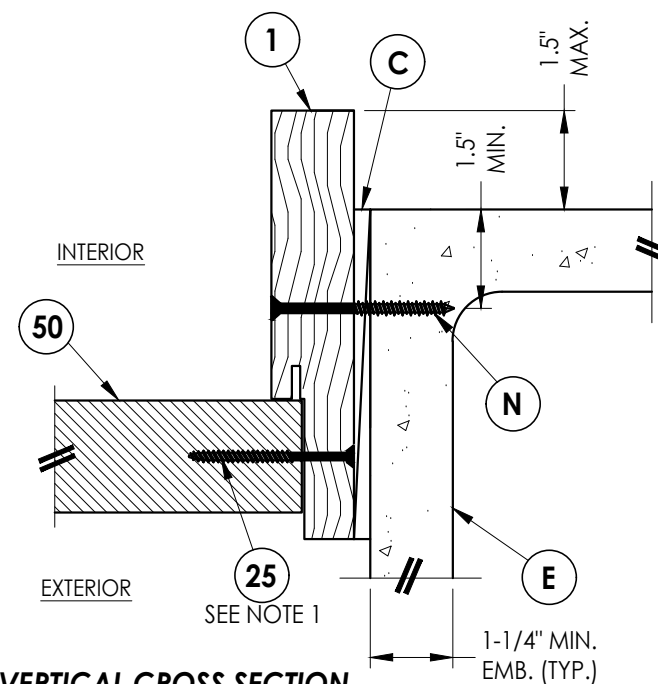
1. Sidelite assembly screws located 6" from each end plus 6 more equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



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



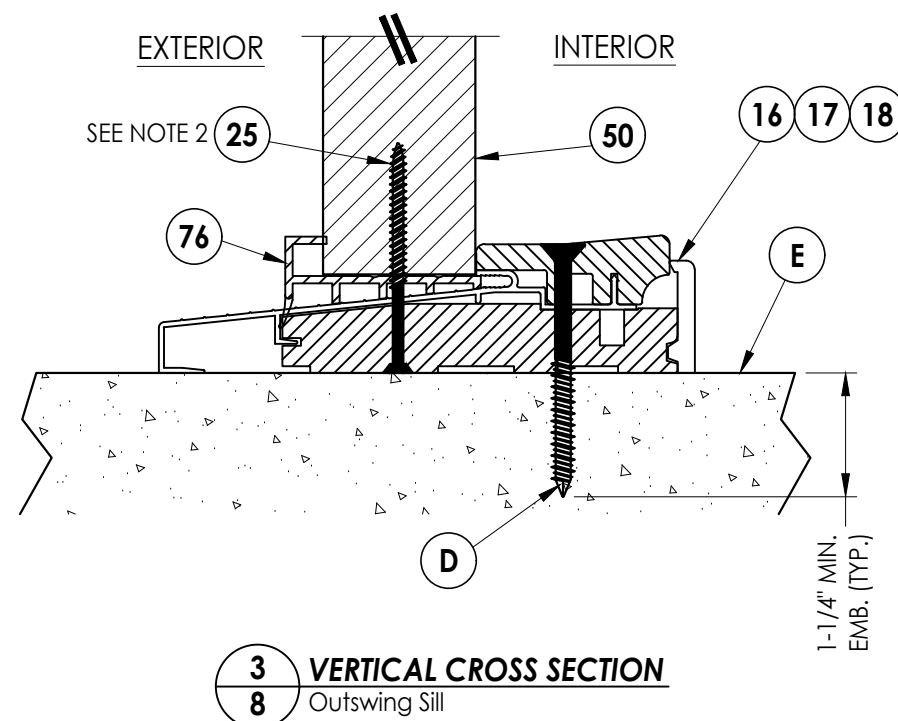
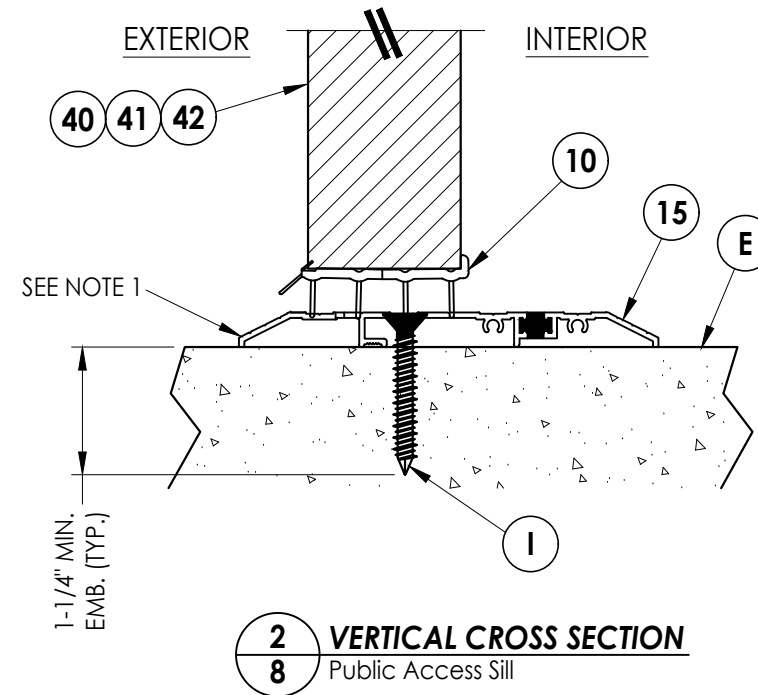
4 **VERTICAL CROSS SECTION**
7 Shown Direct to Masonry
 w/ 6-9/16" jamb



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

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)	
2	8/17/23	UPDATE TO 8TH ED. (2023)	LFS
1	7/15/20	UPDATE TO 7th ED (2020)	PO
NO.	DATE		BY
REVISIONS			
DATE: 08/12/19			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-30077.11			
SHEET 7 OF 14			

1. Sill Item #'s 17, 18, & 19 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item # 16 is 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.
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).

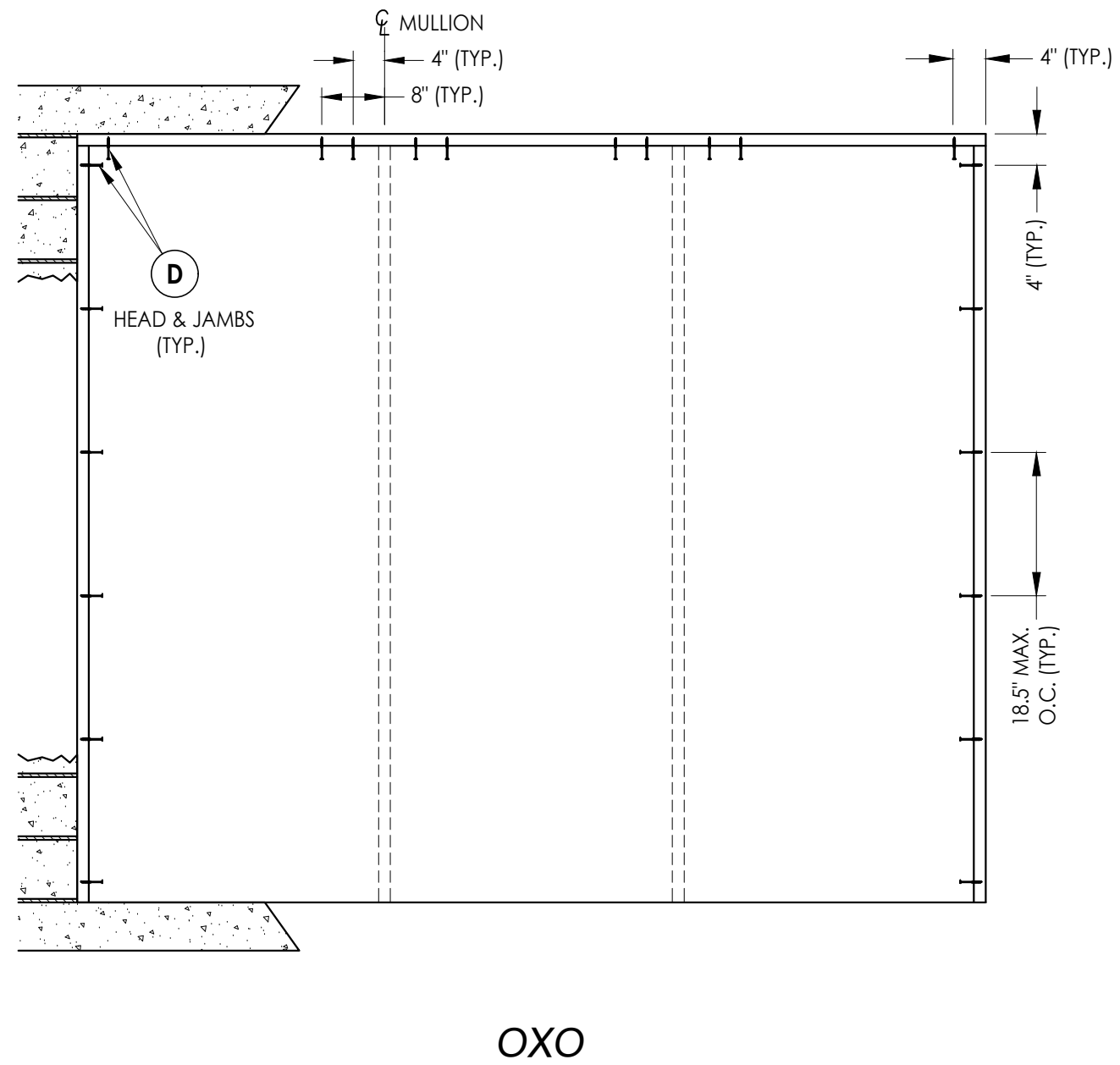
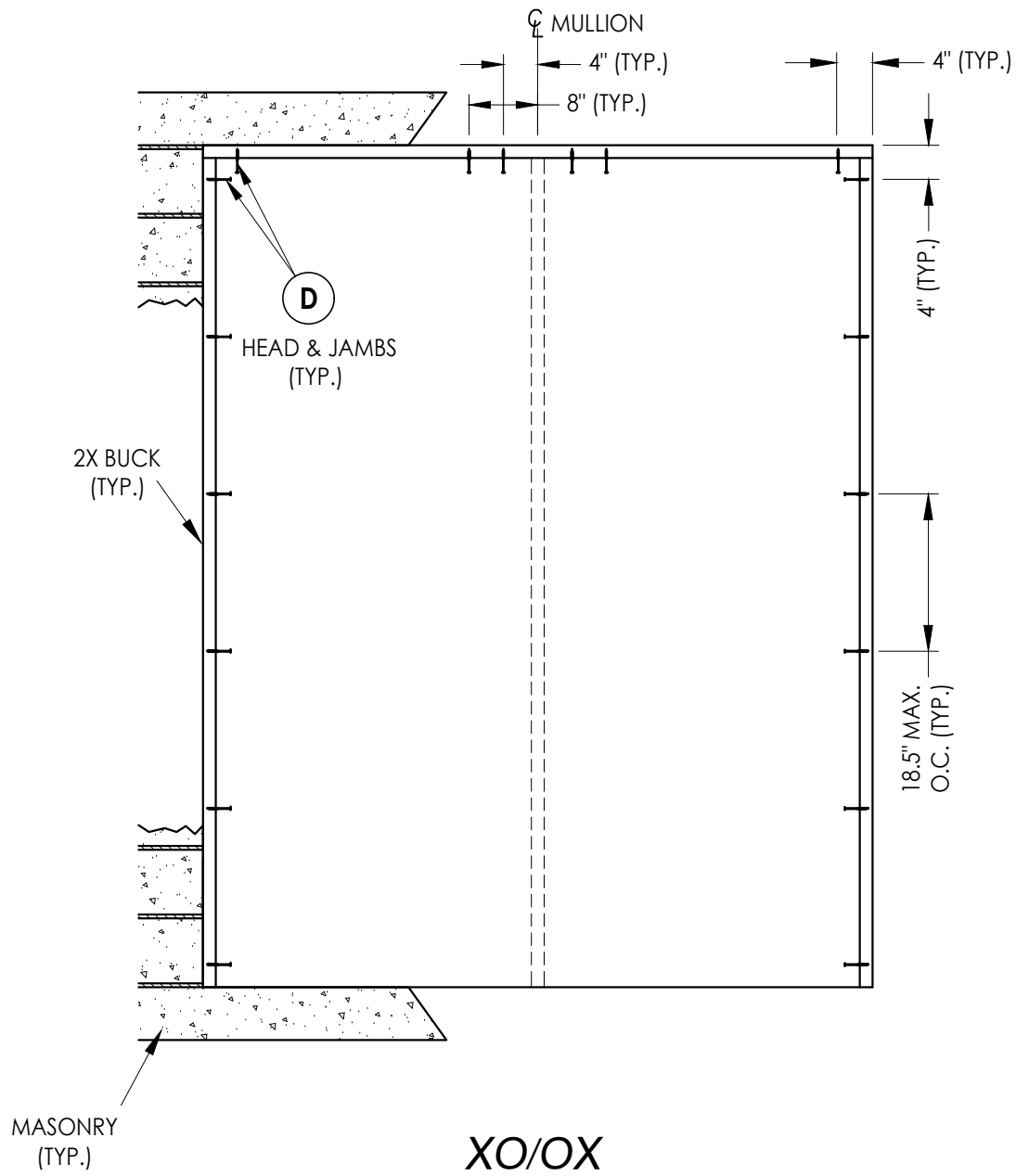
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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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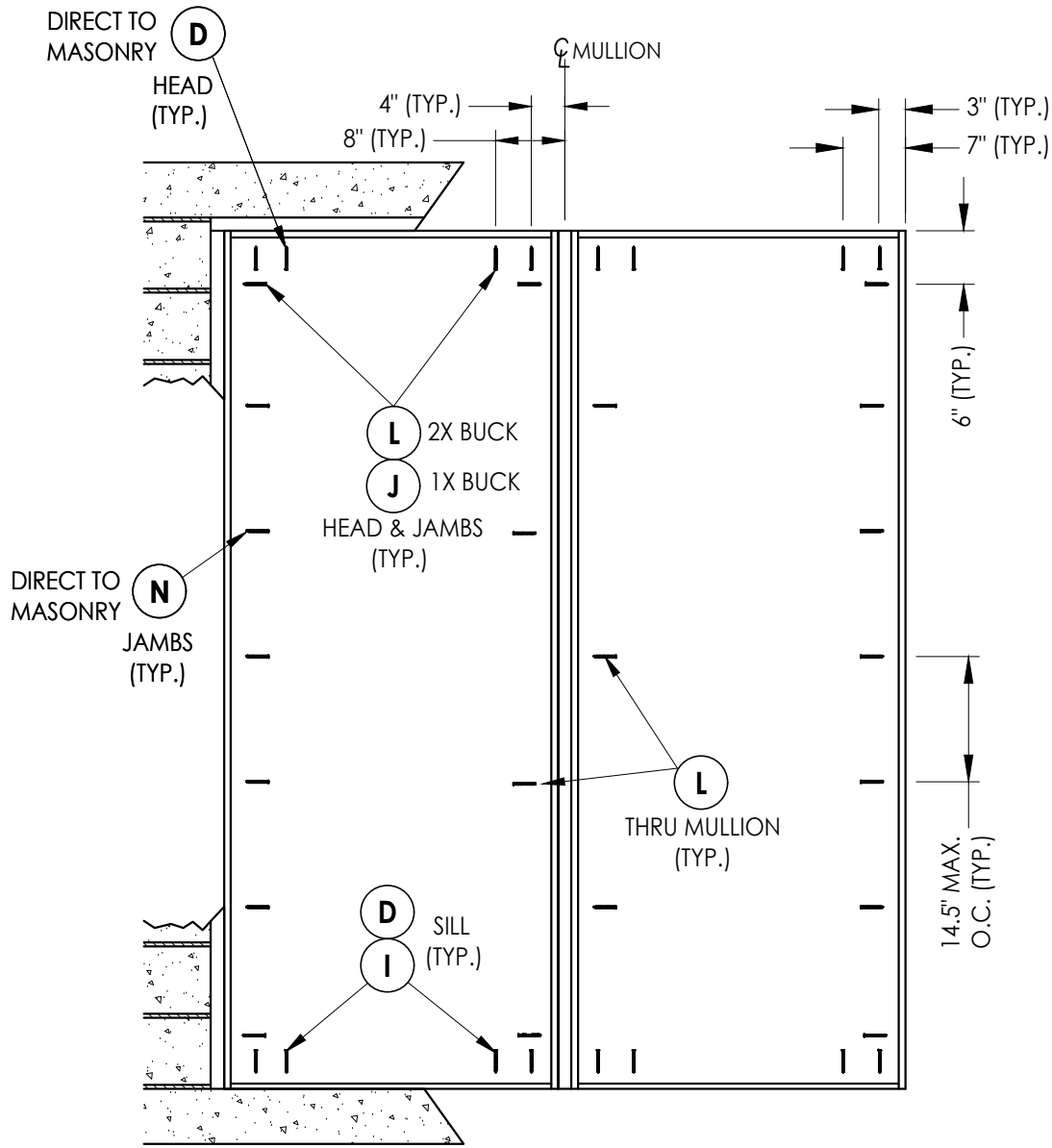
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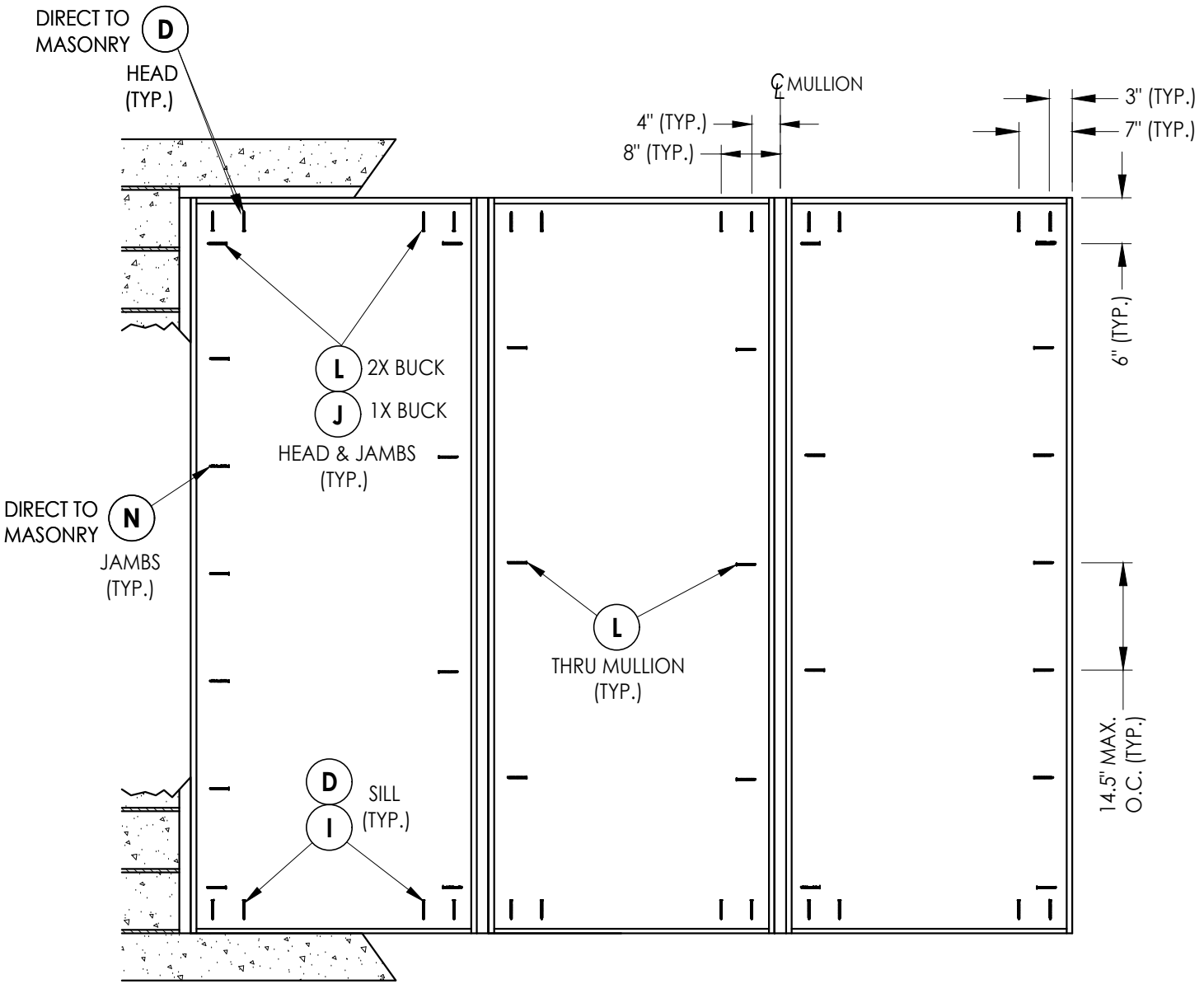
2X BUCK ANCHORING

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 FIBERGLASS DOOR				PART OR ASSEMBLY: BUCK ANCHORING			
				2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC LFS
				1	7/15/20	UPDATE TO 7th ED (2020)	FBC PO
				NO.	DATE		BY
				REVISIONS			
DATE: 08/12/19							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-30077.11							
SHEET 9 OF 14							

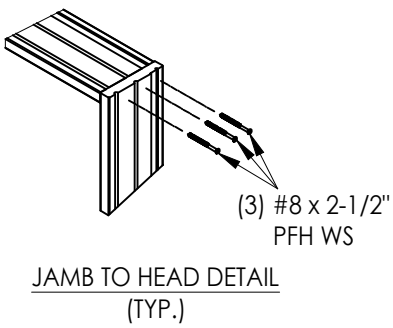
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XO/OX



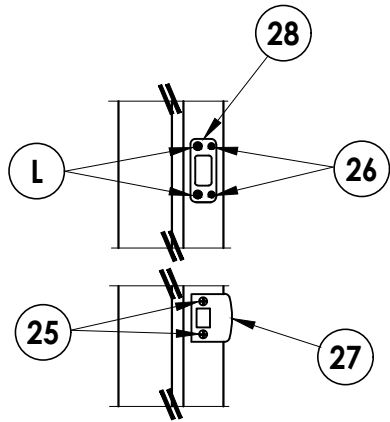
OXO



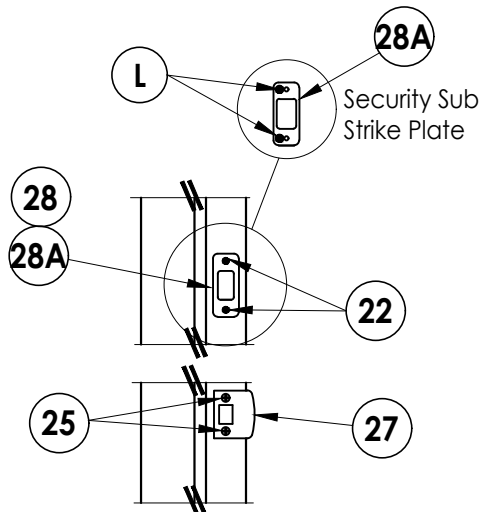
FRAME ANCHORING

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: FRAME ANCHORING	
		LFS	BY
2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/15/20	UPDATE TO 7th ED (2020)	FBC
NO.	DATE		
REVISIONS			
DATE: 08/12/19			
SCALE: N.T.S.			
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CHK. BY: LFS			
DRAWING NO.: FL-30077.11			
SHEET 10 OF 14			

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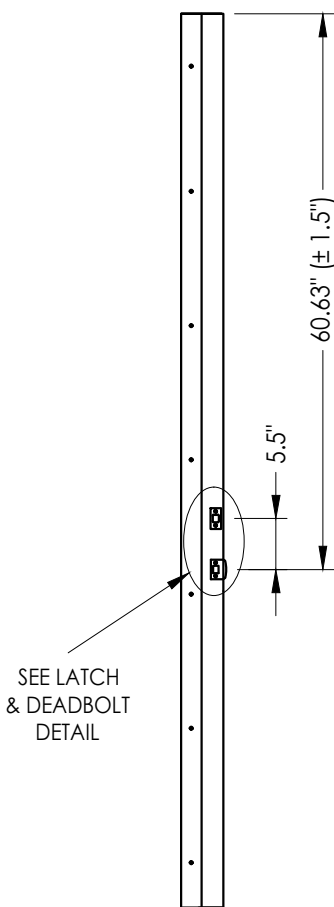


LATCH & DEADBOLT DETAIL
Kwikset

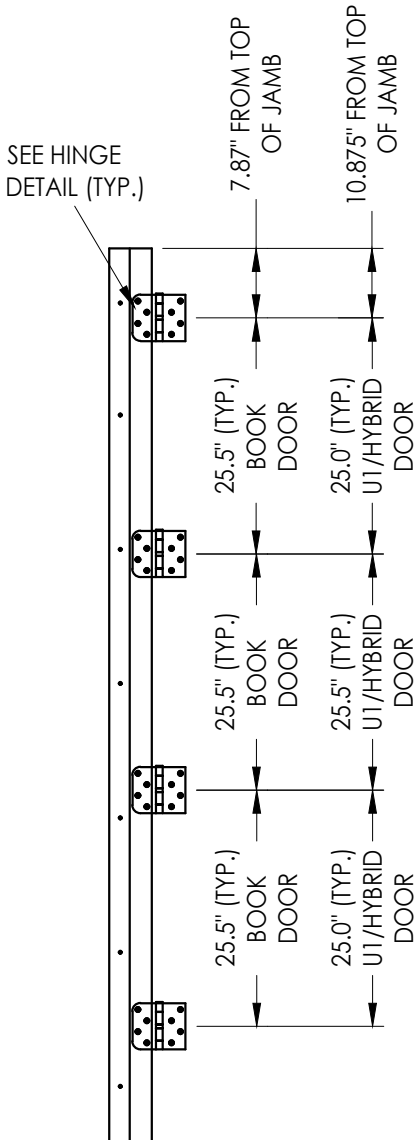


LATCH & DEADBOLT DETAIL
Schlage

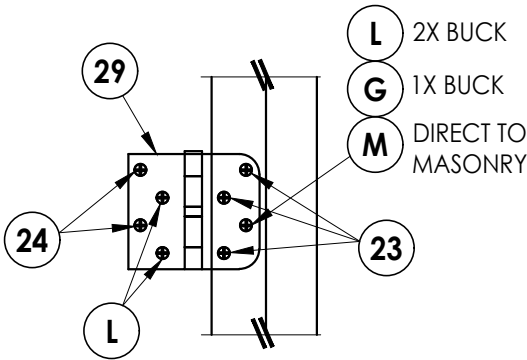
LATCH & DEADBOLT STRIKE DETAILS



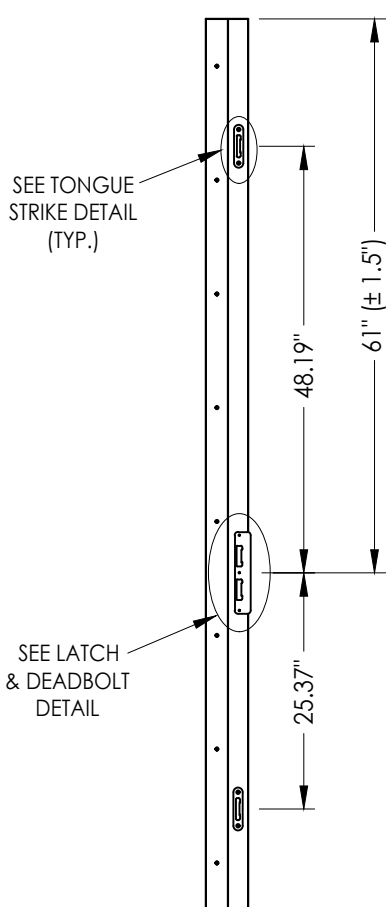
STRIKE JAMB
Latch & Deadbolt



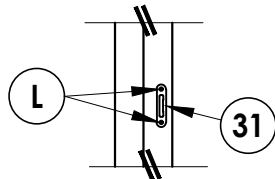
HINGE JAMB



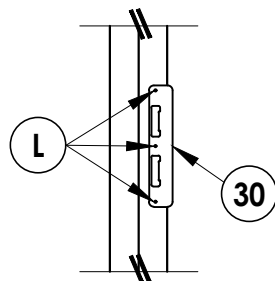
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock

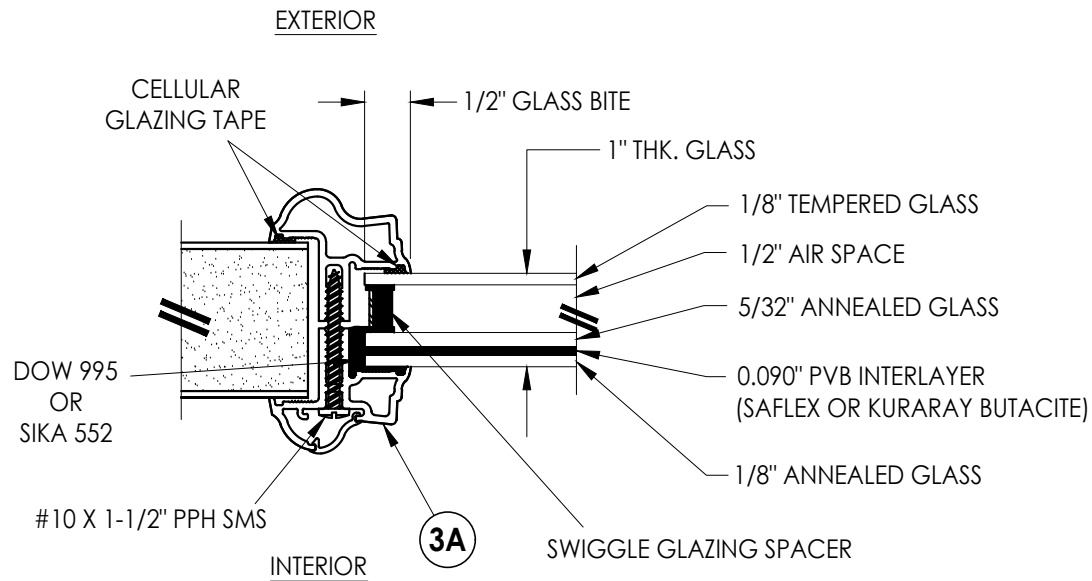


LATCH & DEADBOLT DETAIL
Multipoint Lock

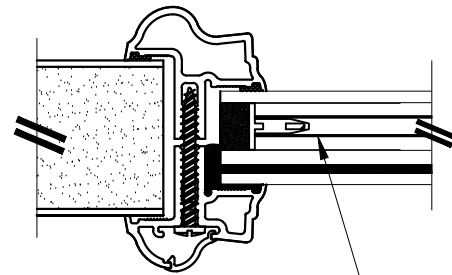
MULTIPOINT LOCK STRIKE DETAILS

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HARDWARE DETAILS	
2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	7/15/20	UPDATE TO 7th ED (2020)	FBC PO
NO.	DATE		BY
REVISIONS			
DATE: 08/12/19			
SCALE: N.T.S.			
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CHK. BY: LFS			
DRAWING NO.: FL-30077.11			
SHEET 11 OF 14			

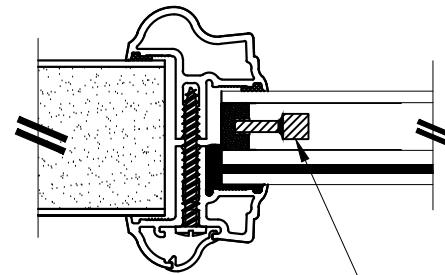
G:\2023 FBC DRAWINGS\Therma-Tru\FL-30077 R2\FL-30077.10-12.dwg



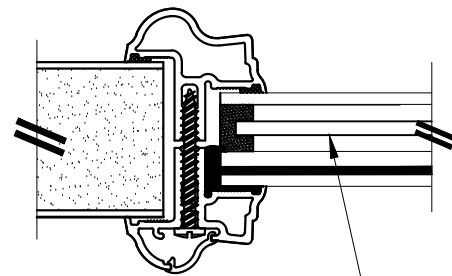
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



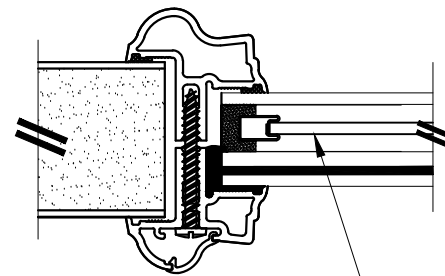
INTERNAL GRID (GBG)



WROUGHT IRON INSERT

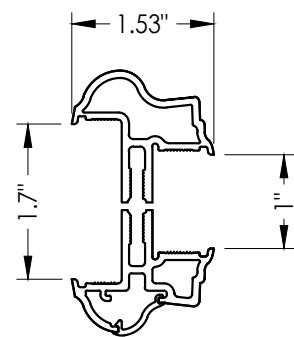


PRIVACY INSERT

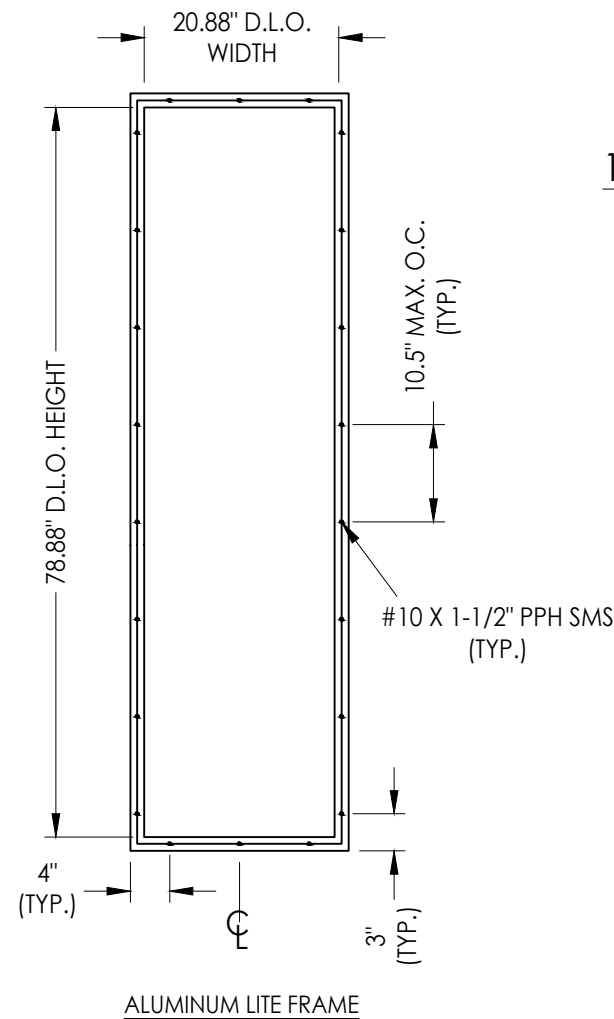


DECORATIVE INSERT

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

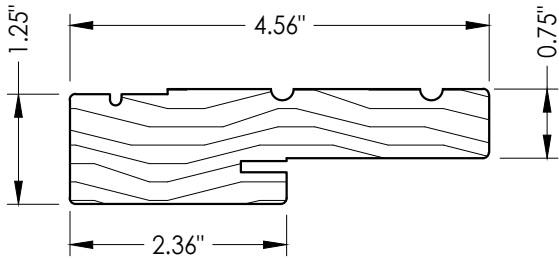
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

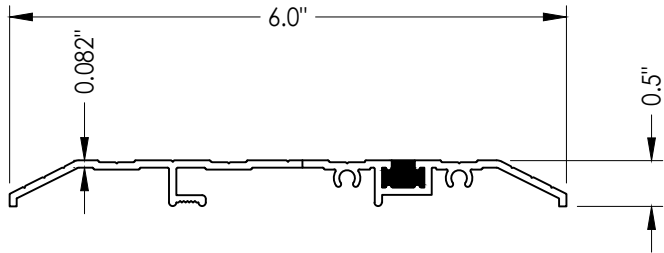
NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/15/20	UPDATE TO 7th ED (2020) FBC PO

DATE: 08/12/19
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-30077.11
SHEET 12 OF 14

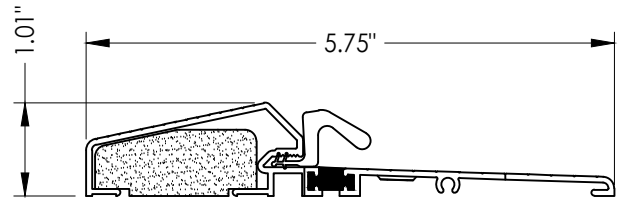
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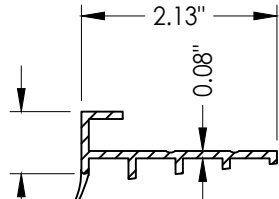
1 WOOD JAMB



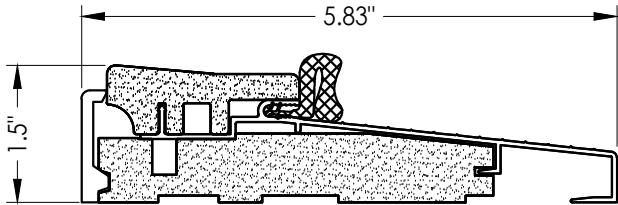
15 PUBLIC ACCESS THRESHOLD



18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)

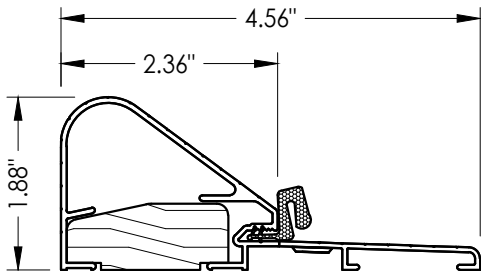


76 SIDELITE SPACER
Outswing

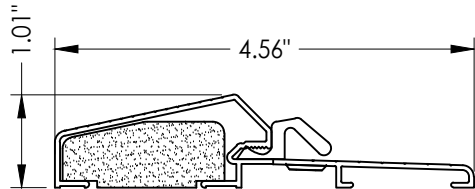


16 OUTSWING THRESHOLD
Composite Sill

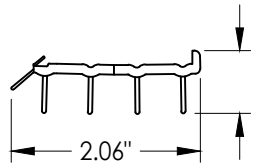
MAX. +55 PSF
(where water infiltration is required)



19 COASTAL OUTSWING THRESHOLD
Wood / Aluminum Sill



17 OUTSWING THRESHOLD
Composite / Aluminum Sill



10 SWEEP

DATE: 08/12/19

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-30077.11

SHEET 13 OF 14

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

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

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
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
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
8	SWEEP	VINYL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP
19	COASTAL OUTSWING THRESHOLD	ALUM/WOOD
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
30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	STEEL
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	STEEL
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE (FULL LITE)	-
76	SIDELITE SPACER (OUTSWING)	PVC
88	2X MULLION (SG >= 0.55)	WOOD

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.

[illegible]