

THERMA-TRU[®]
DOORS

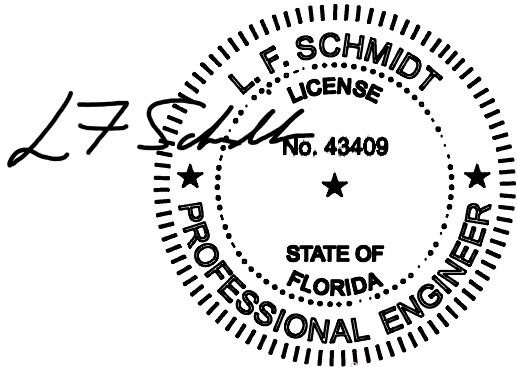
Fiber-Classic[®] & Smooth-Star[®]

CUT DOWN WOOD EDGE
OPAQUE 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.

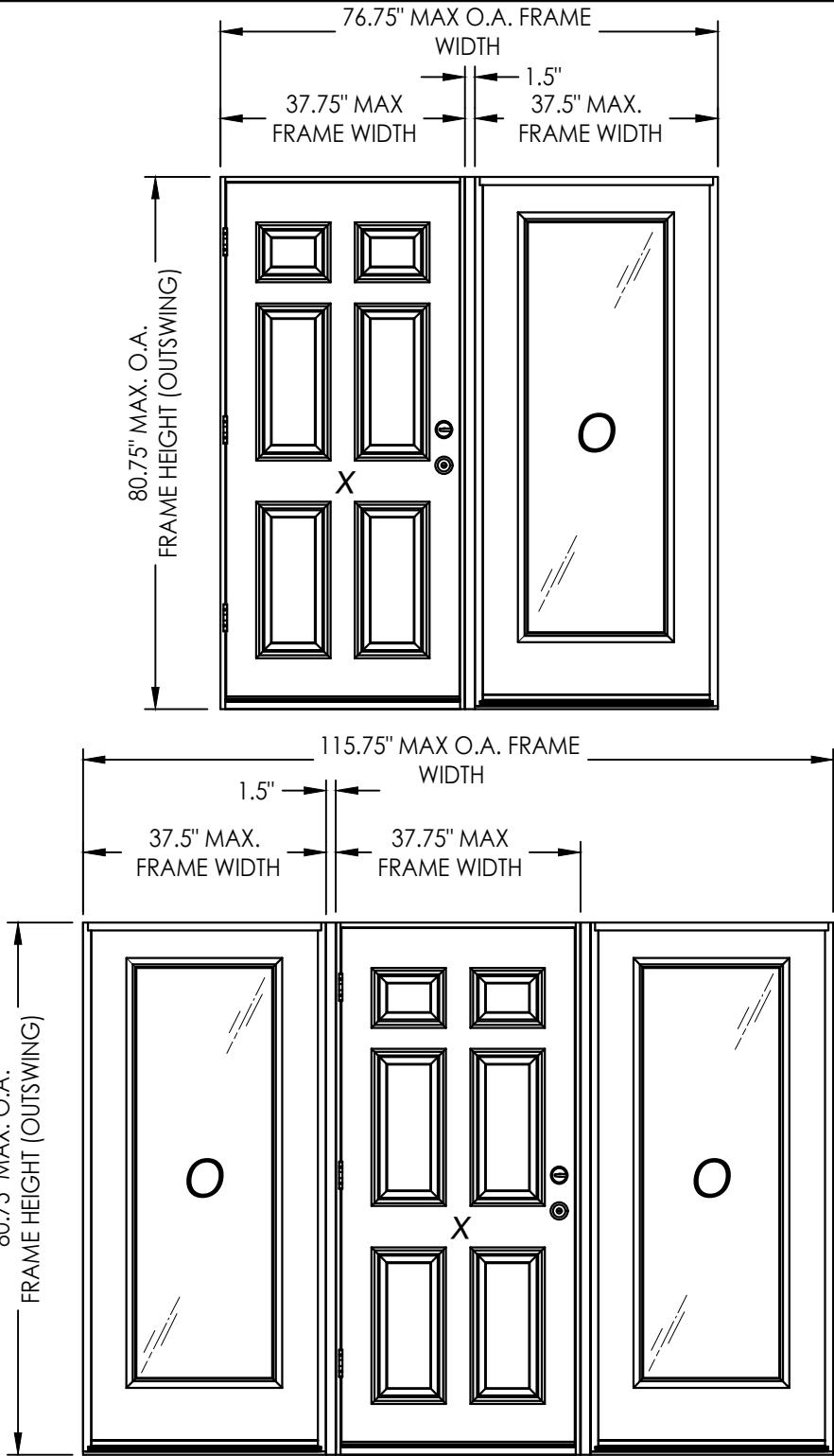
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6	Horizontal & Vertical Cross Sections (1X Buck)	13	Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials



Digitally signed by Lyndon F Schmidt
Date: 2023.08.18 10:04:37 -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

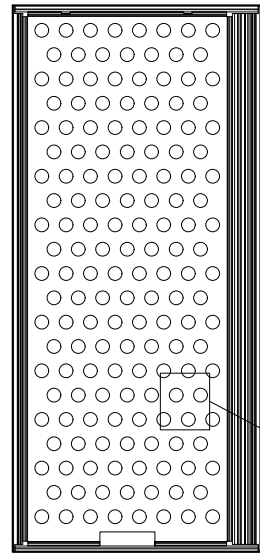


CONFIGURATION	DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE
XO, OX, OXO	+55.0	-55.0

See Sheet 4 for Hardware Specifications

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409										R W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
PRODUCT: THERMA-TRU FIBERGLASS DOOR										PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

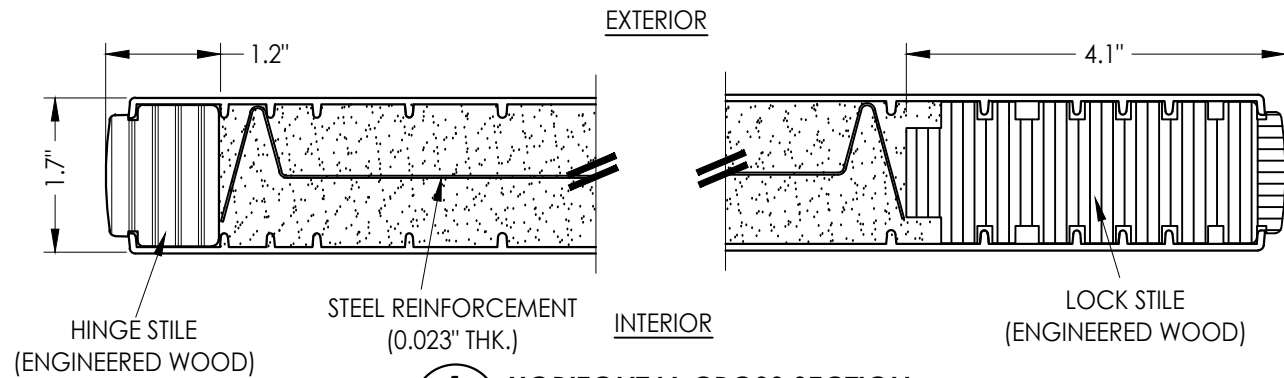
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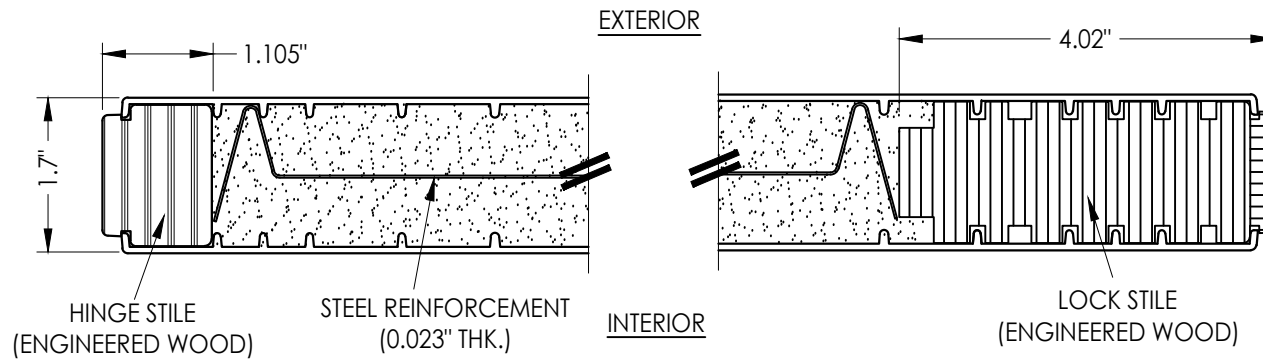
DETAIL A-A
PANEL REINFORCEMENT
(0.023\"

STEEL REINFORCEMENT
28.86% OPEN
AREA MAX.

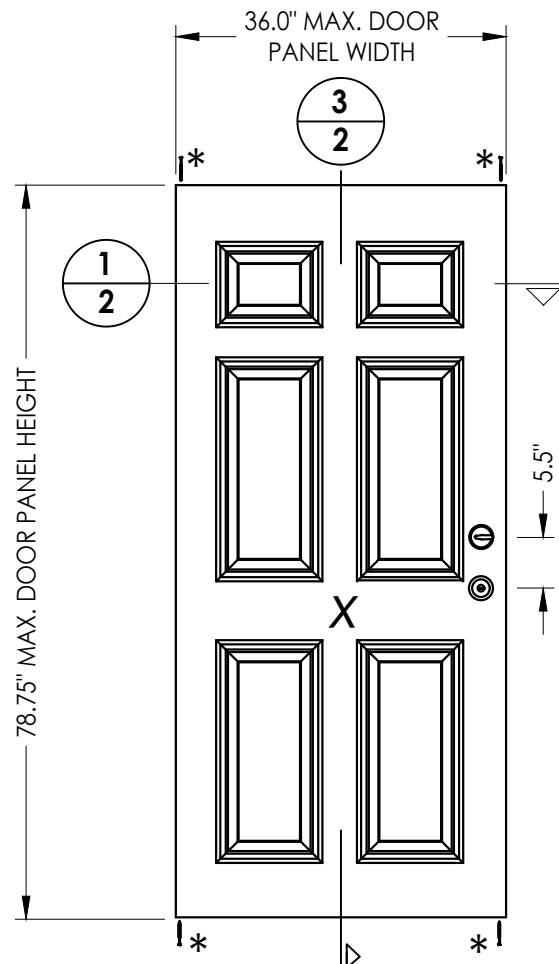
* #8 X 2.5\"



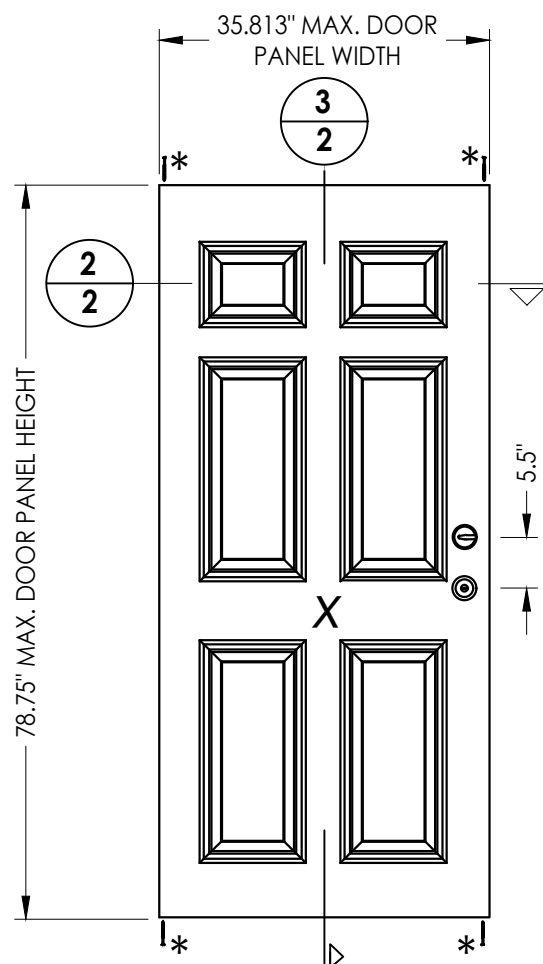
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2 **HORIZONTAL CROSS SECTION**



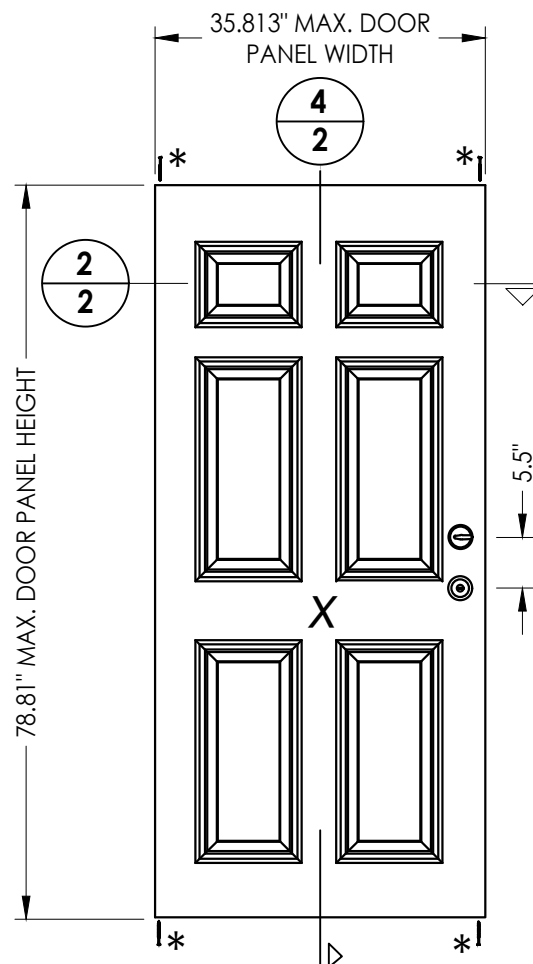
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2 **HORIZONTAL CROSS SECTION**



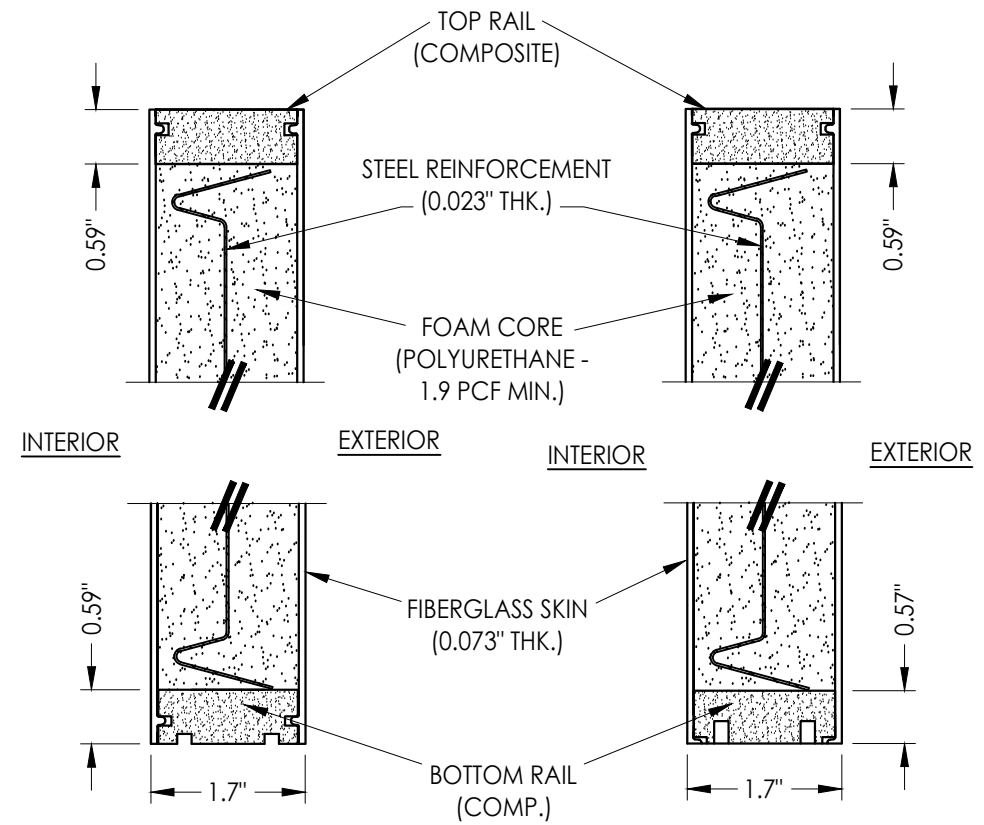
40 **DOOR PANEL**
BOOK



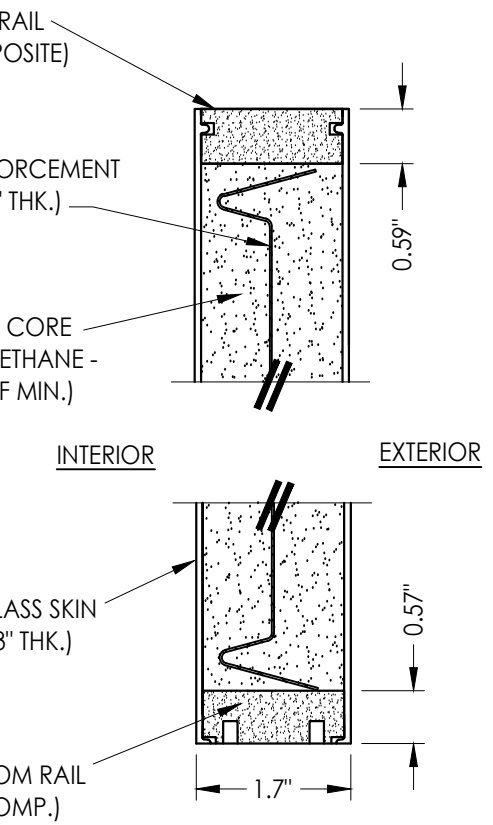
41 **DOOR PANEL**
Hybrid Door



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

NO.	DATE	REVISIONS		
		BY	PO	LFS
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.

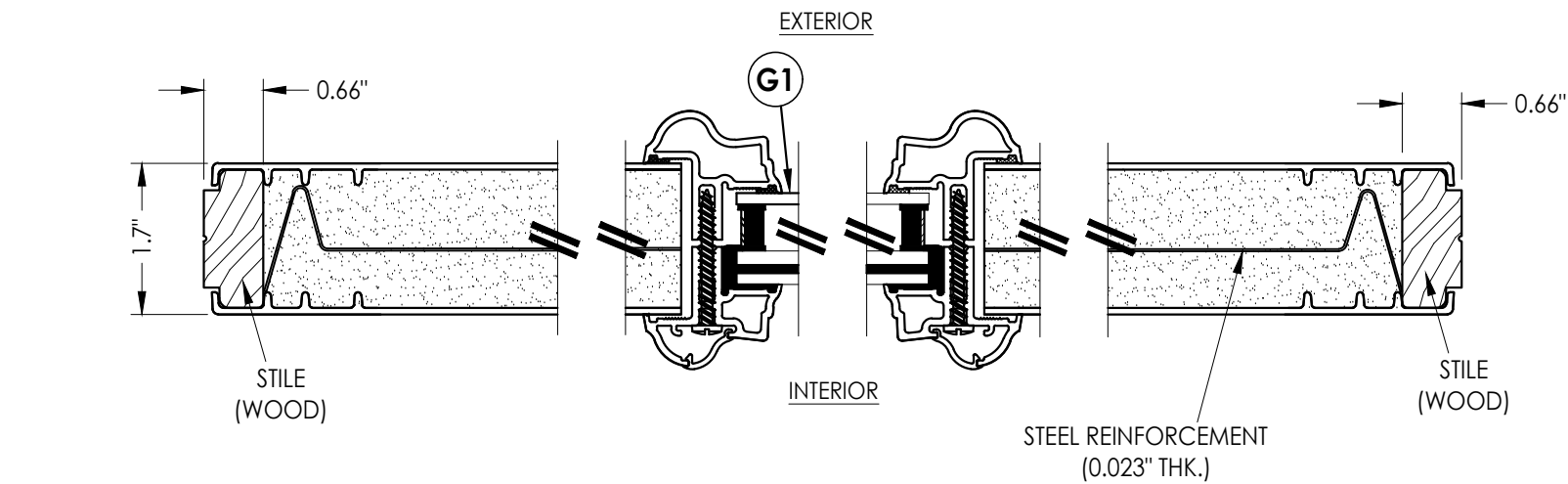
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CHK. BY: LFS

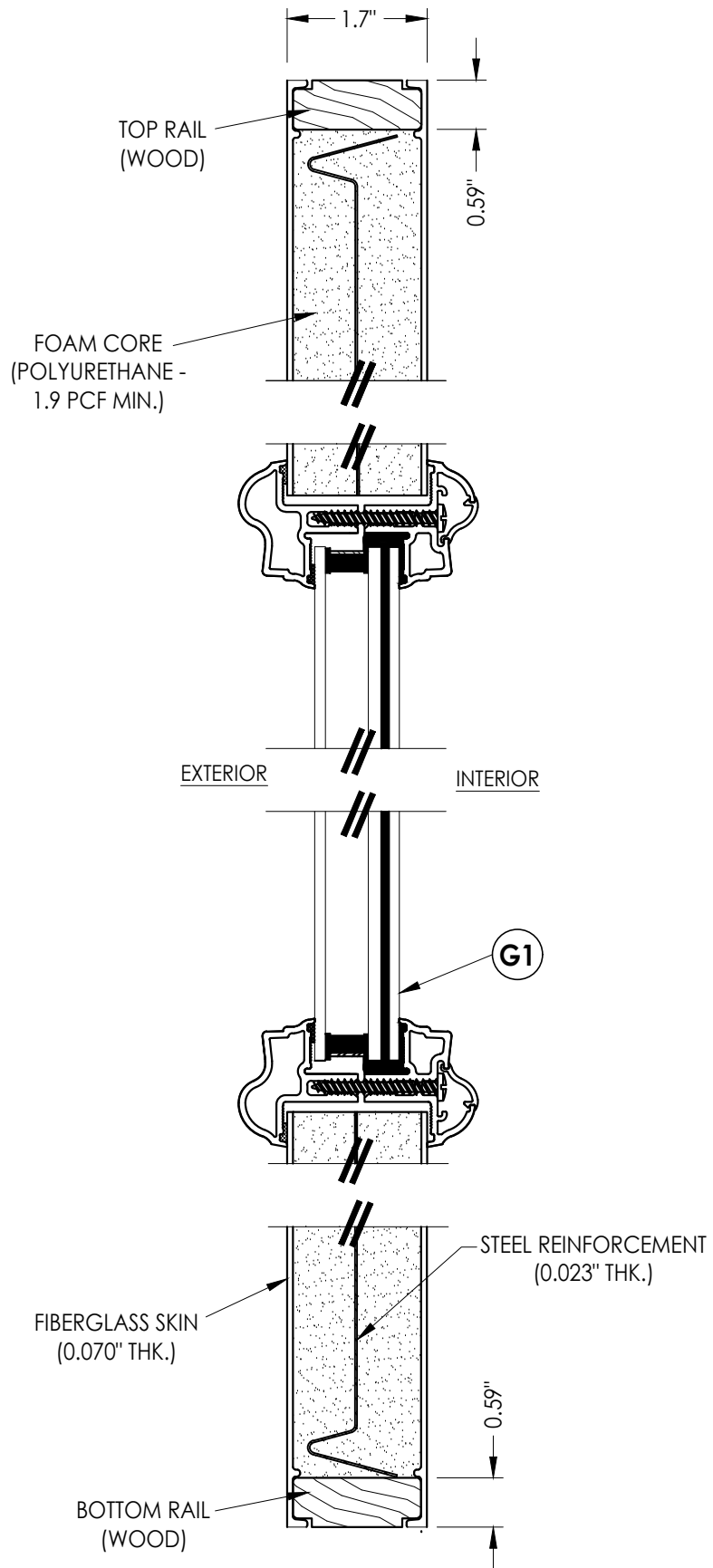
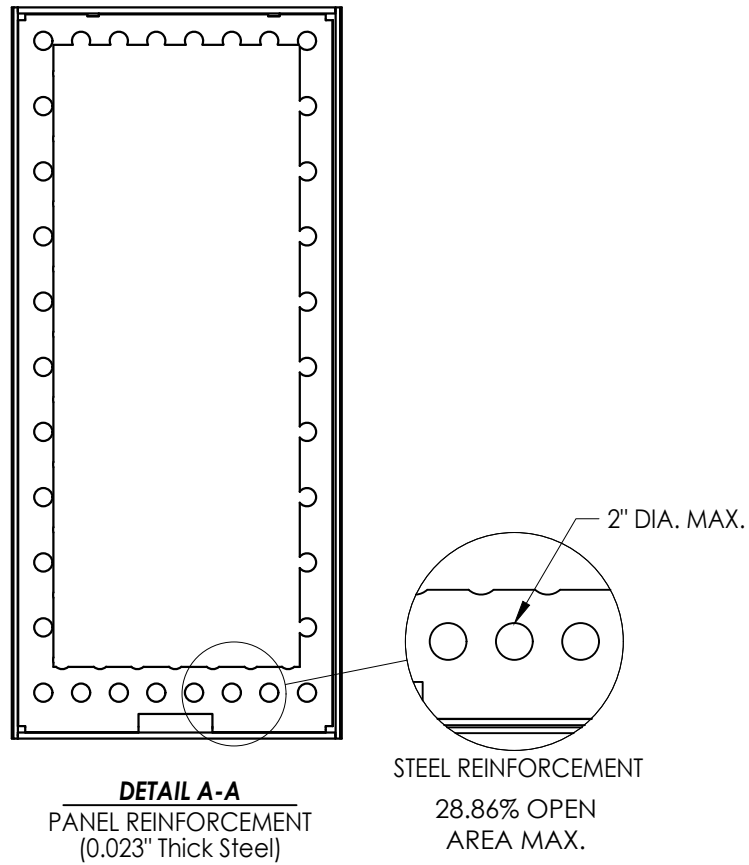
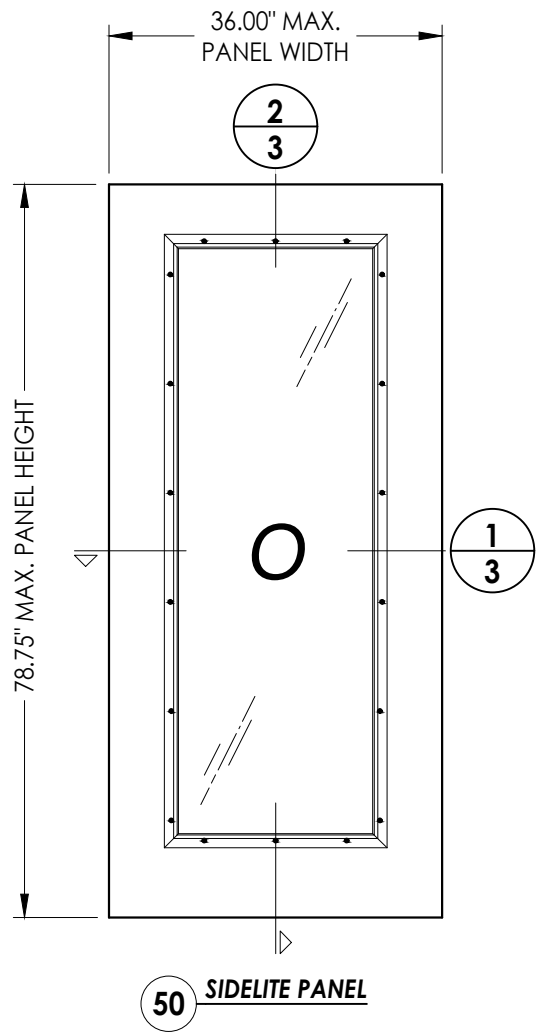
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SHEET 2 OF 14

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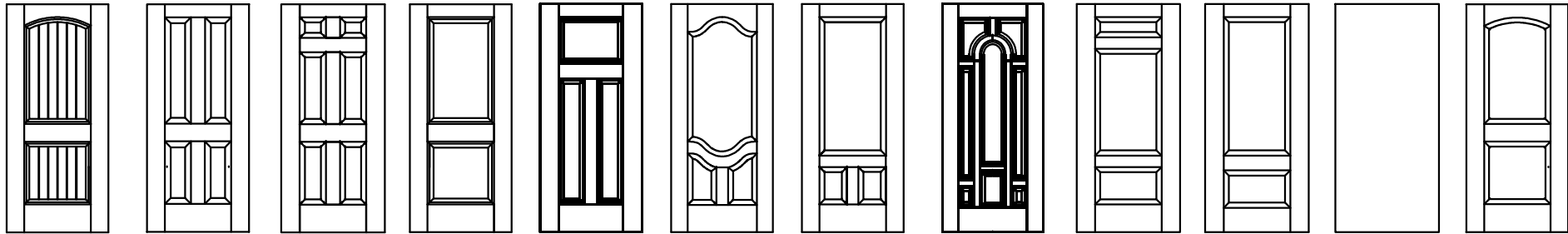
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3 **HORIZONTAL CROSS SECTION**



2
3 **VERTICAL CROSS SECTION**

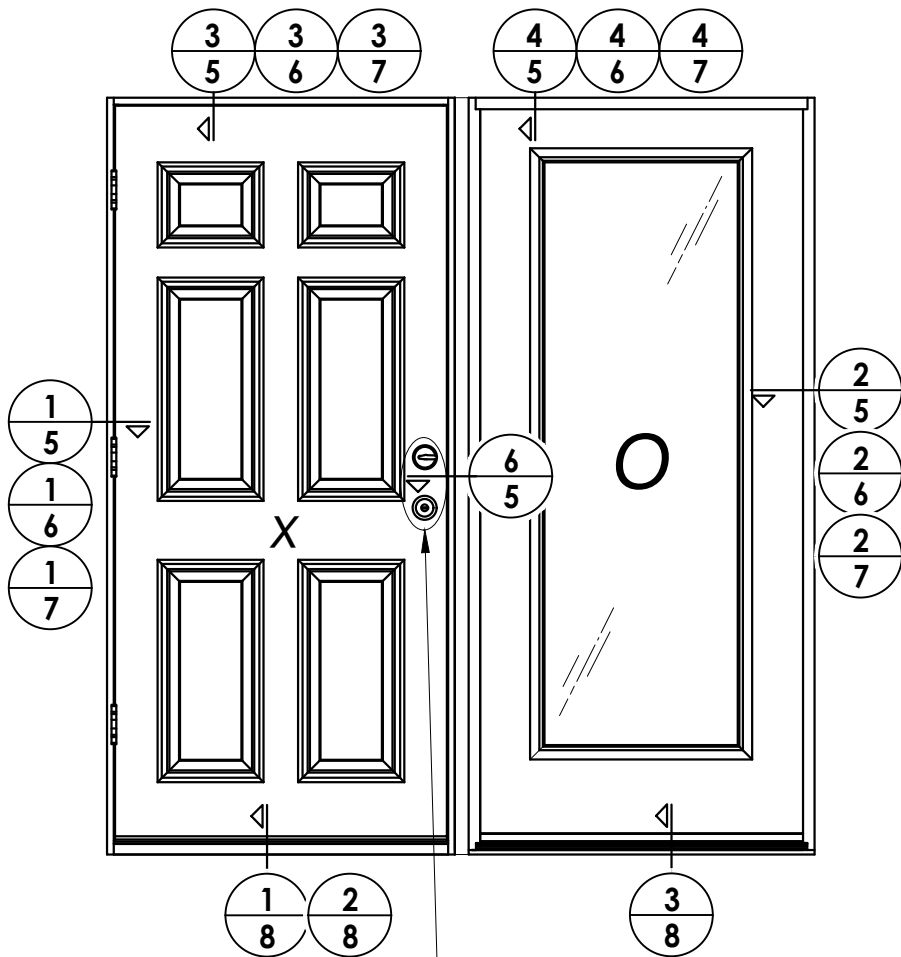
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				RWBUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: SIDELITE PANEL DETAILS					
				LFS	FBC	UPDATE TO 8TH ED. (2023)	
				PO	FBC	UPDATE TO 7th ED (2020)	
				NO.	DATE		
				REVISIONS			
DATE: 08/12/19							
SCALE: N.T.S.							
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CHK. BY: LFS							
DRAWING NO.: FL-30077.2							
SHEET 3 OF 14							

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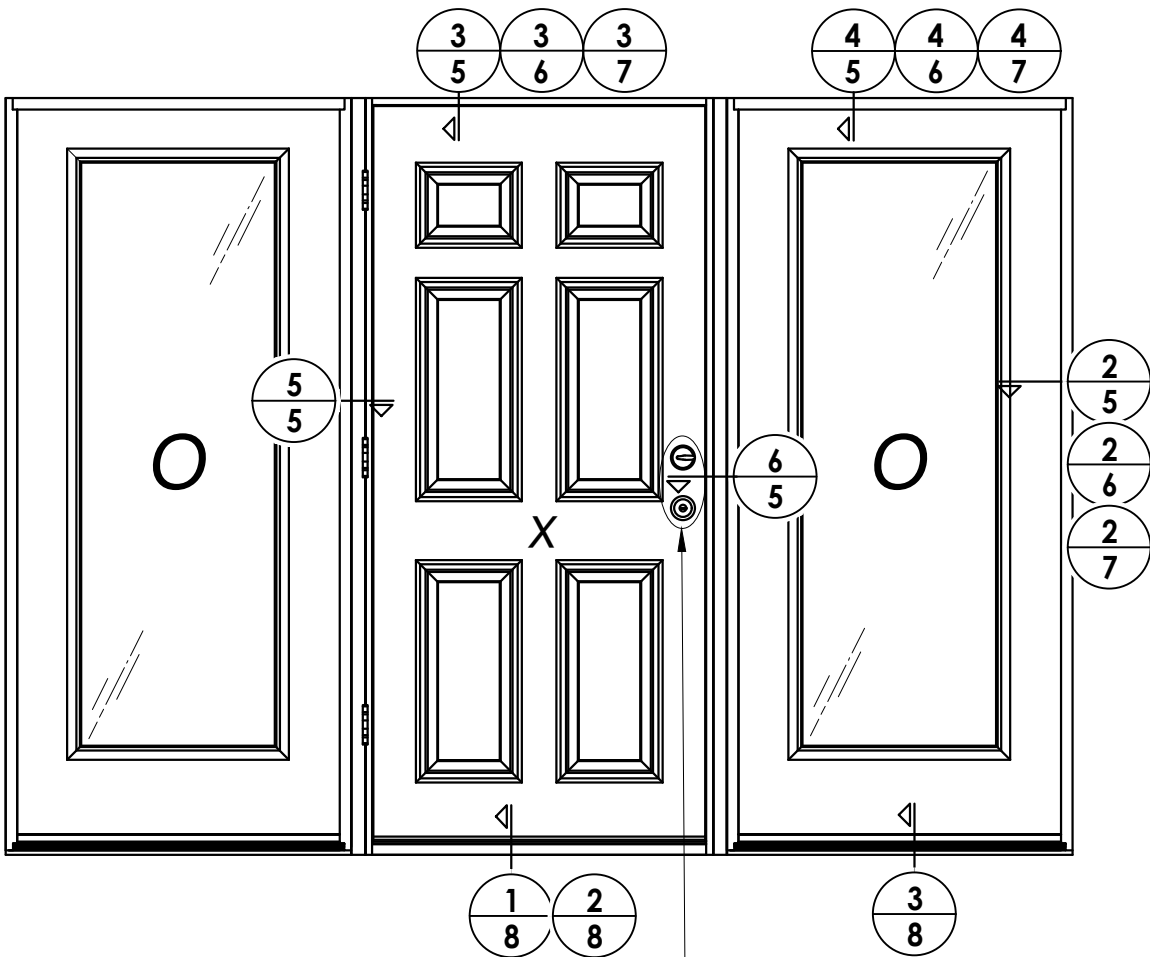


Fiber-Classic/Smooth-Star Door Panel Options

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



SEE HARDWARE CHART
ELEVATION
XO



SEE HARDWARE CHART
ELEVATION
OXO

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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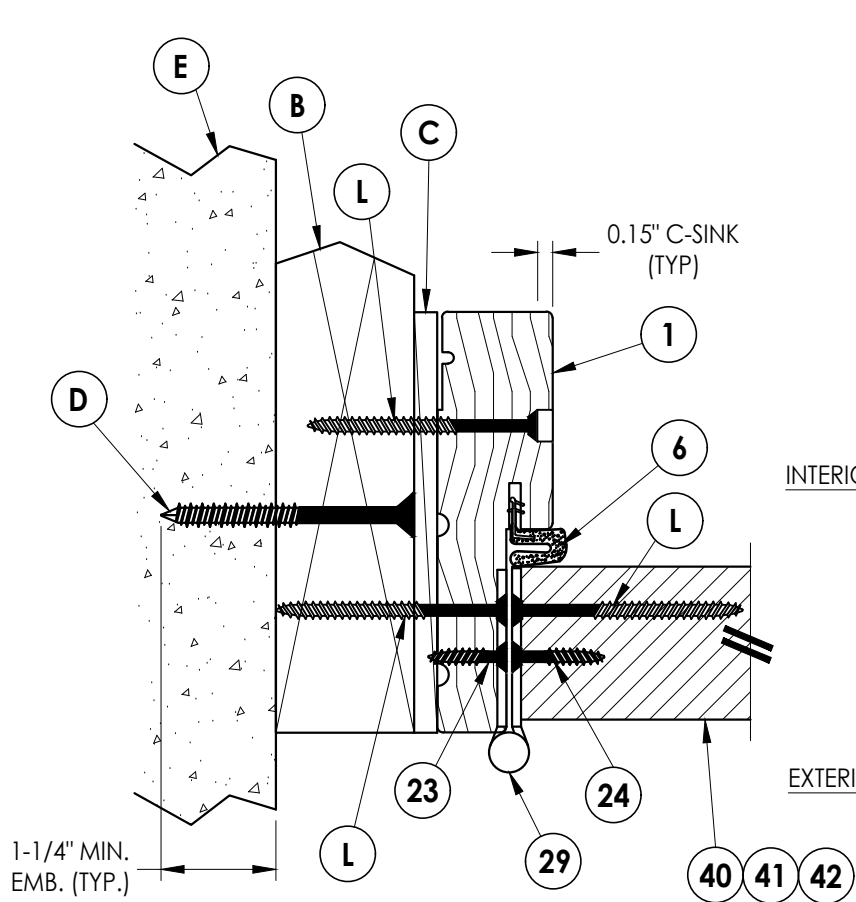
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

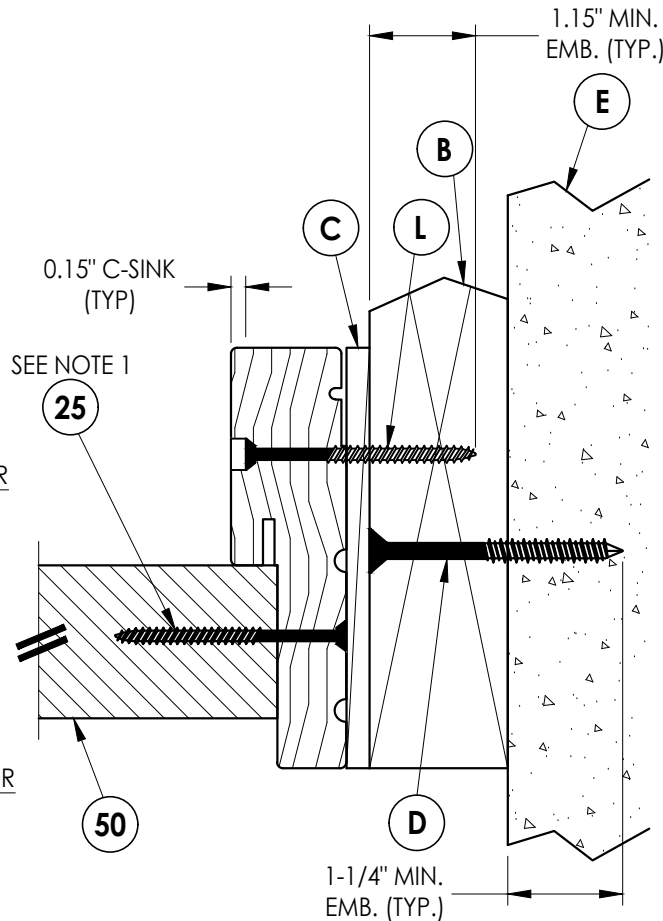
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					1	7/15/20	UPDATE TO 7th ED. (2020)	PO

DATE: 08/12/19
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-30077.2
SHEET 4 OF 14

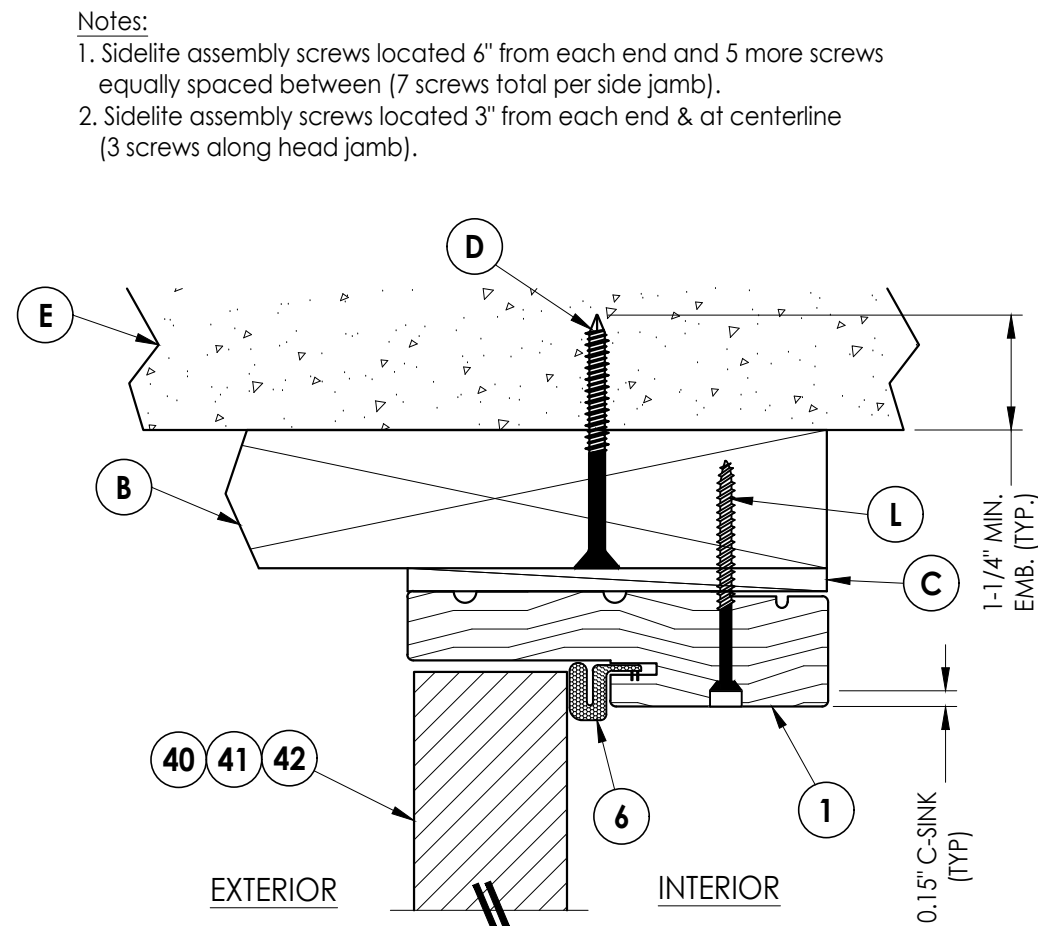
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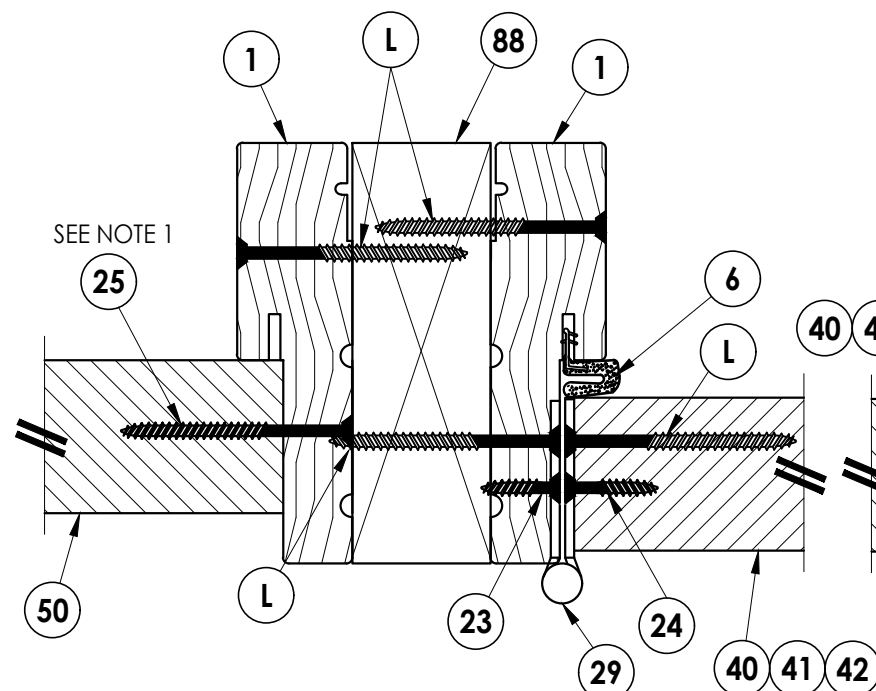
1
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck



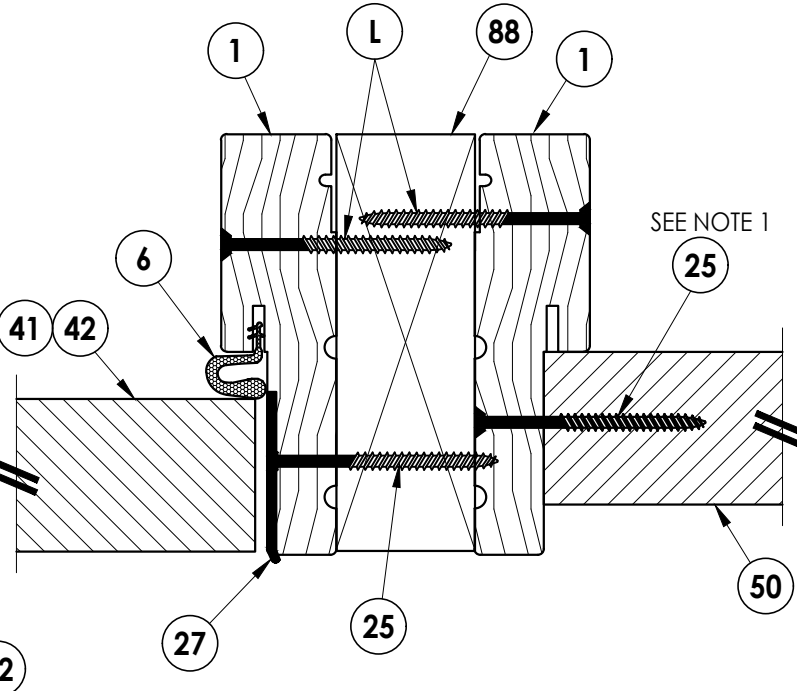
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5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck



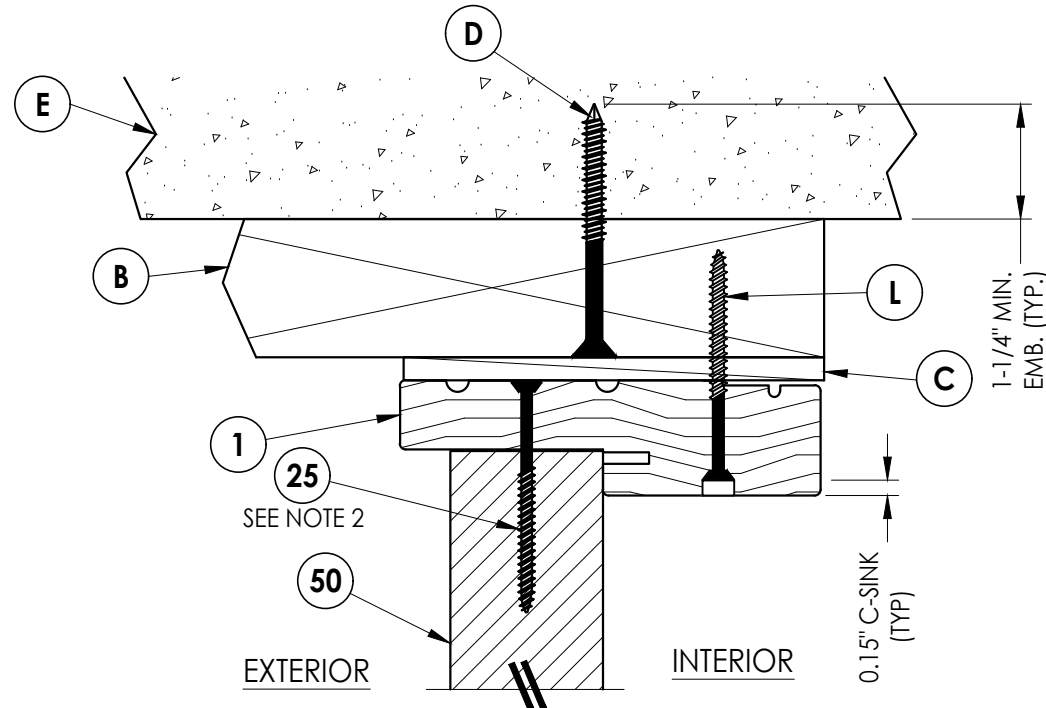
3
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck



5
5 **HORIZONTAL CROSS SECTION**



6
5 **HORIZONTAL CROSS SECTION**



4
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck

- Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).

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P.O. Box 230, Valrico, FL 33595
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
1	7/15/20	UPDATE TO 7th ED (2020) FBC
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
LFS		
PO		
BY		

DATE: 08/12/19

SCALE: N.T.S.

DWG. BY: RW

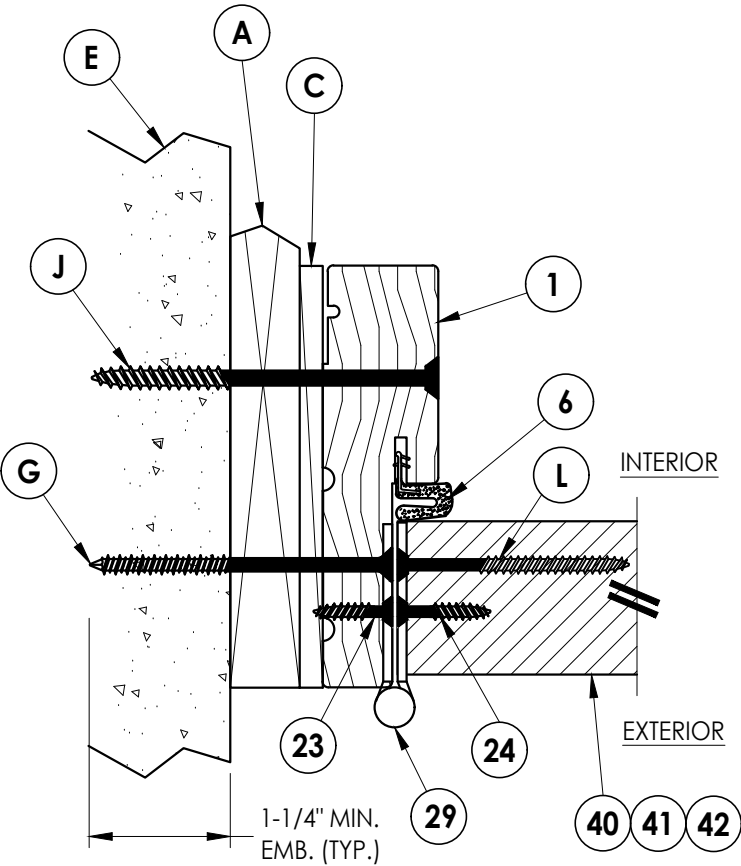
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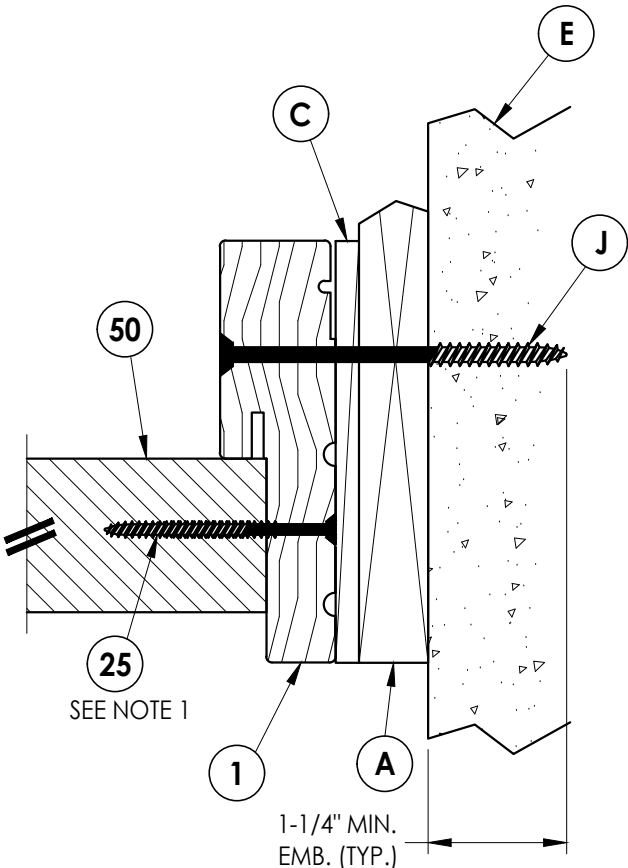
FL-30077.2

SHEET 5 OF 14

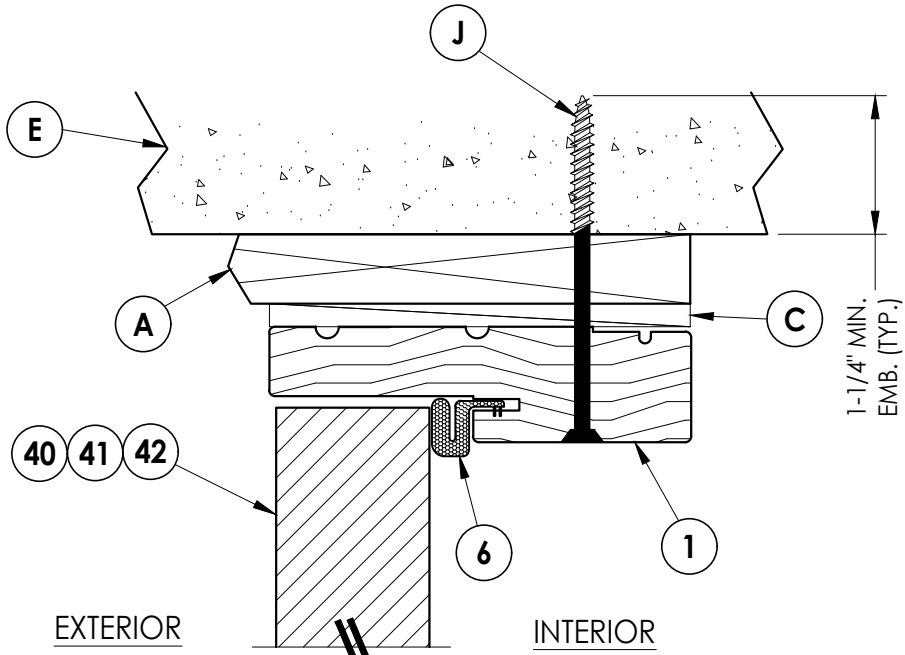
- Notes:
- 1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
 - 2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



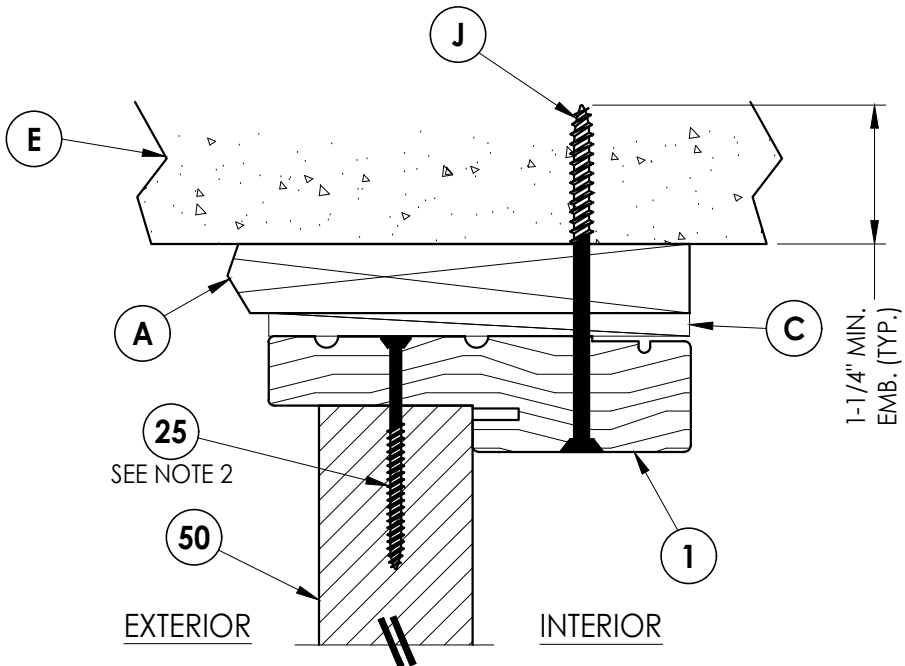
1 HORIZONTAL CROSS SECTION
6 Shown w/ 1X sub-buck



2 HORIZONTAL CROSS SECTION
6 Shown w/ 1X sub-buck

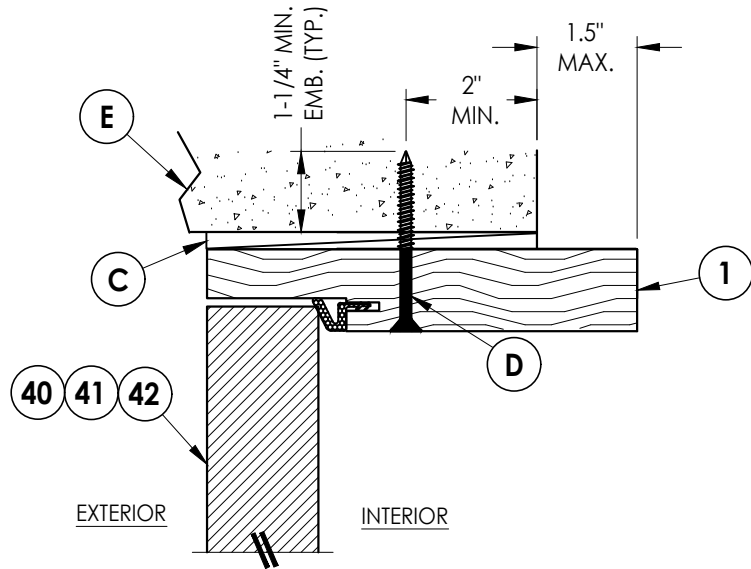


3 VERTICAL CROSS SECTION
6 Shown w/ 1X sub-buck

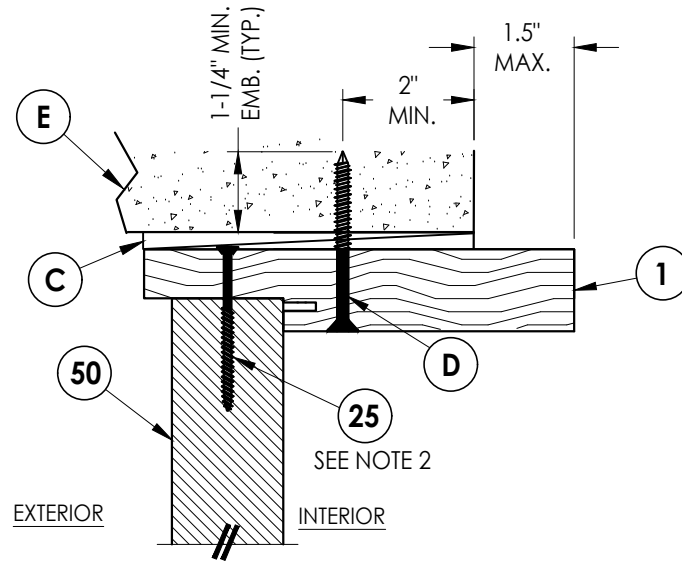


4 VERTICAL CROSS SECTION
6 Shown w/ 1X sub-buck

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)	
		LFS	BY
		PO	
		NO.	DATE
		REVISIONS	
		DATE: 08/12/19	
		SCALE: N.T.S.	
		DWG. BY: RW	
		CHK. BY: LFS	
		DRAWING NO.: FL-30077.2	
		SHEET 6 OF 14	



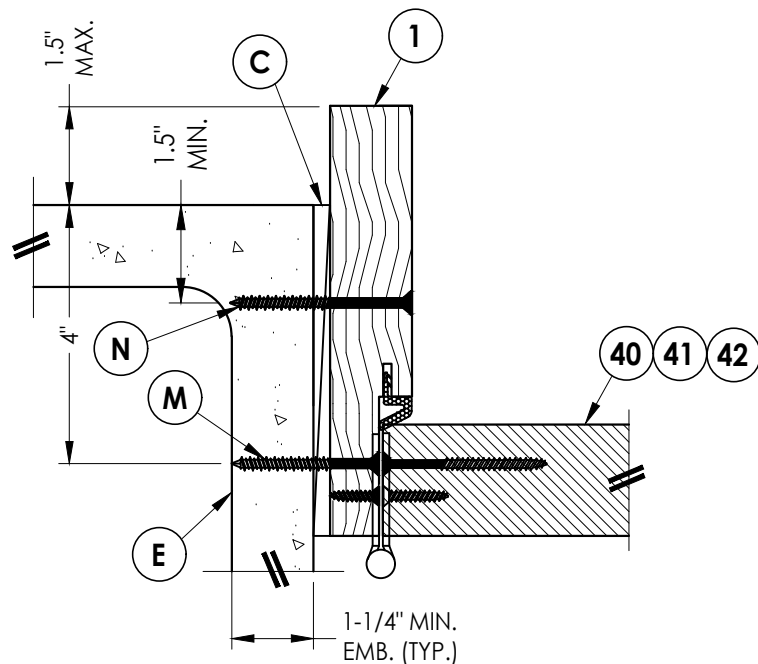
3
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
6-9/16" jamb



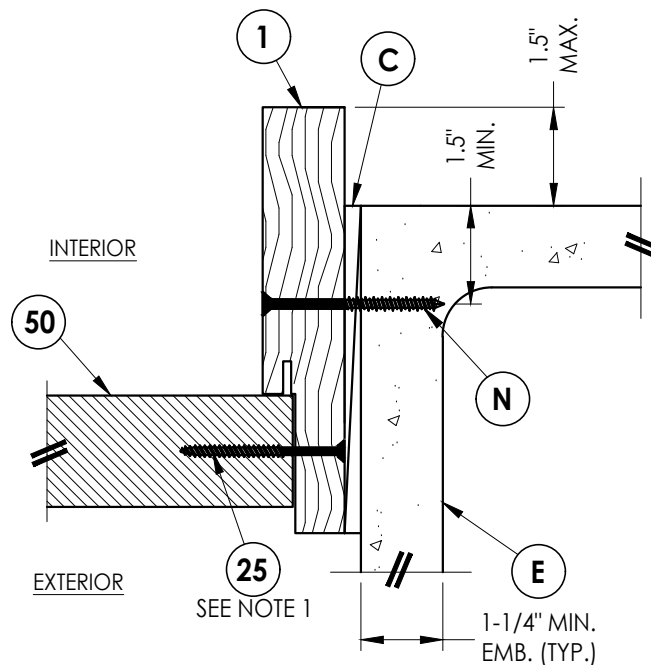
4
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
6-9/16" jamb

Notes:

1. Sidelite assembly screws located 6" from each end plus 5 more equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



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



2
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
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
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	BY	PO	LFS
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	PO	LFS

DATE: 08/12/19

SCALE: N.T.S.

DWG. BY: RW

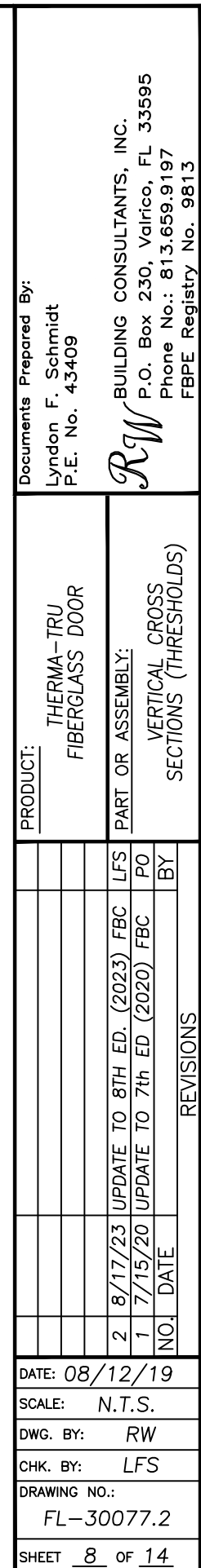
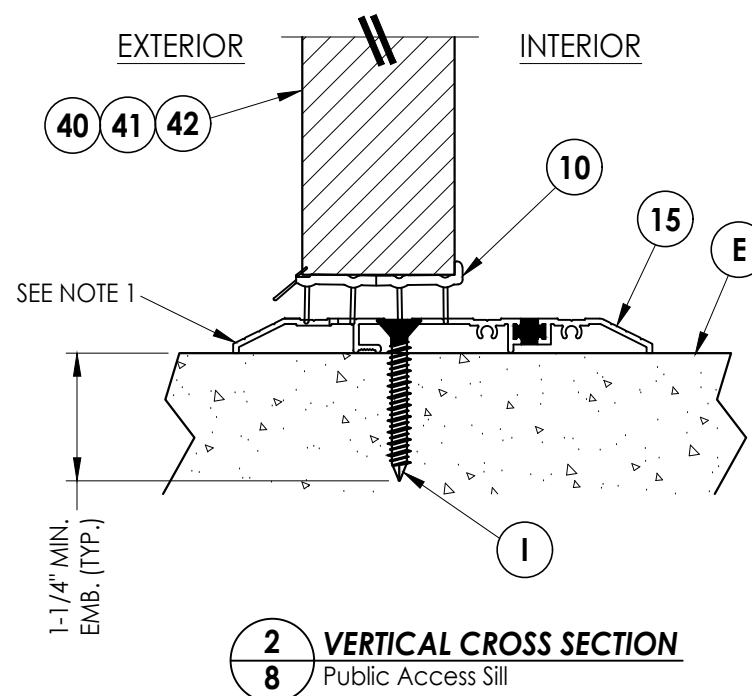
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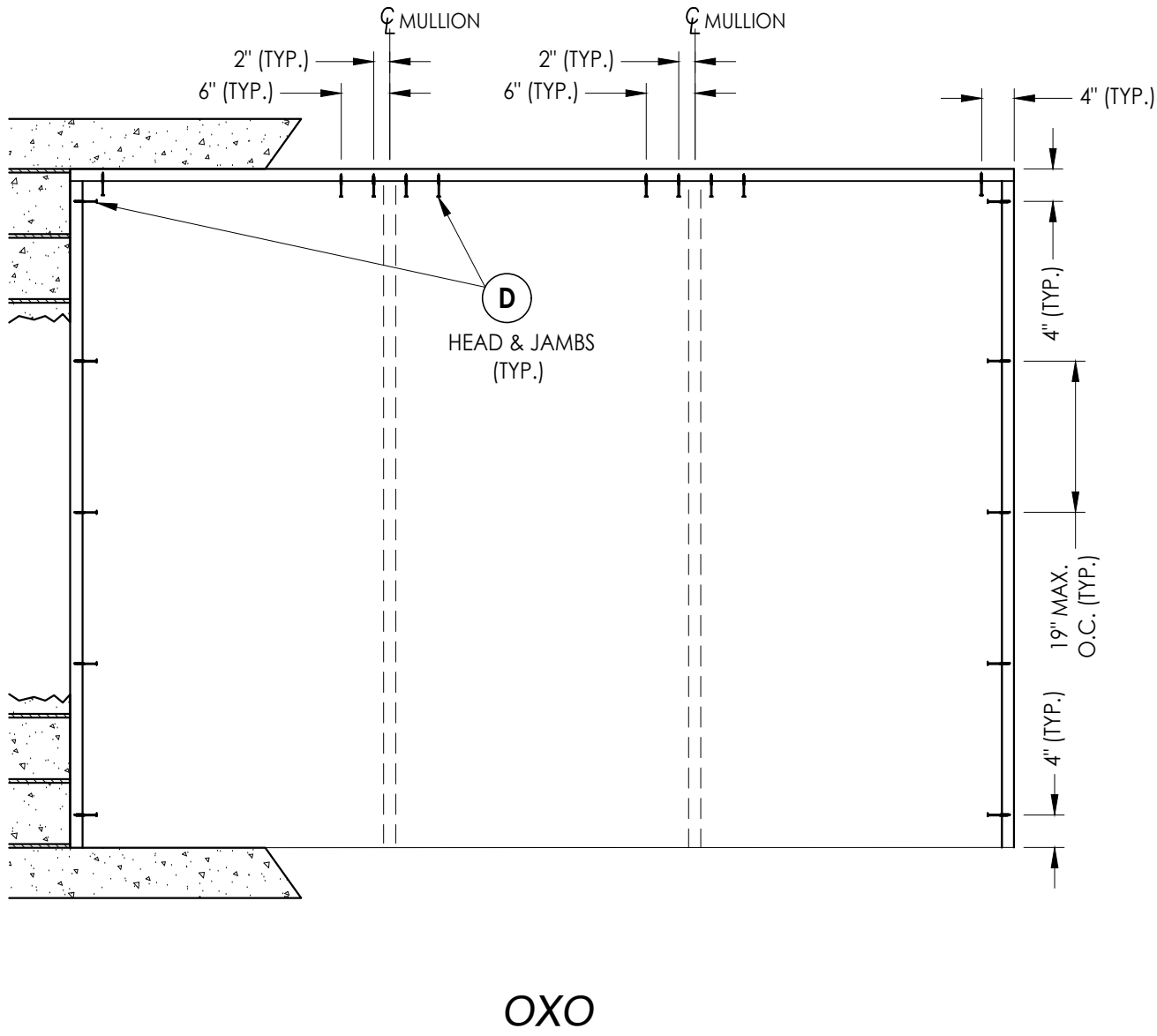
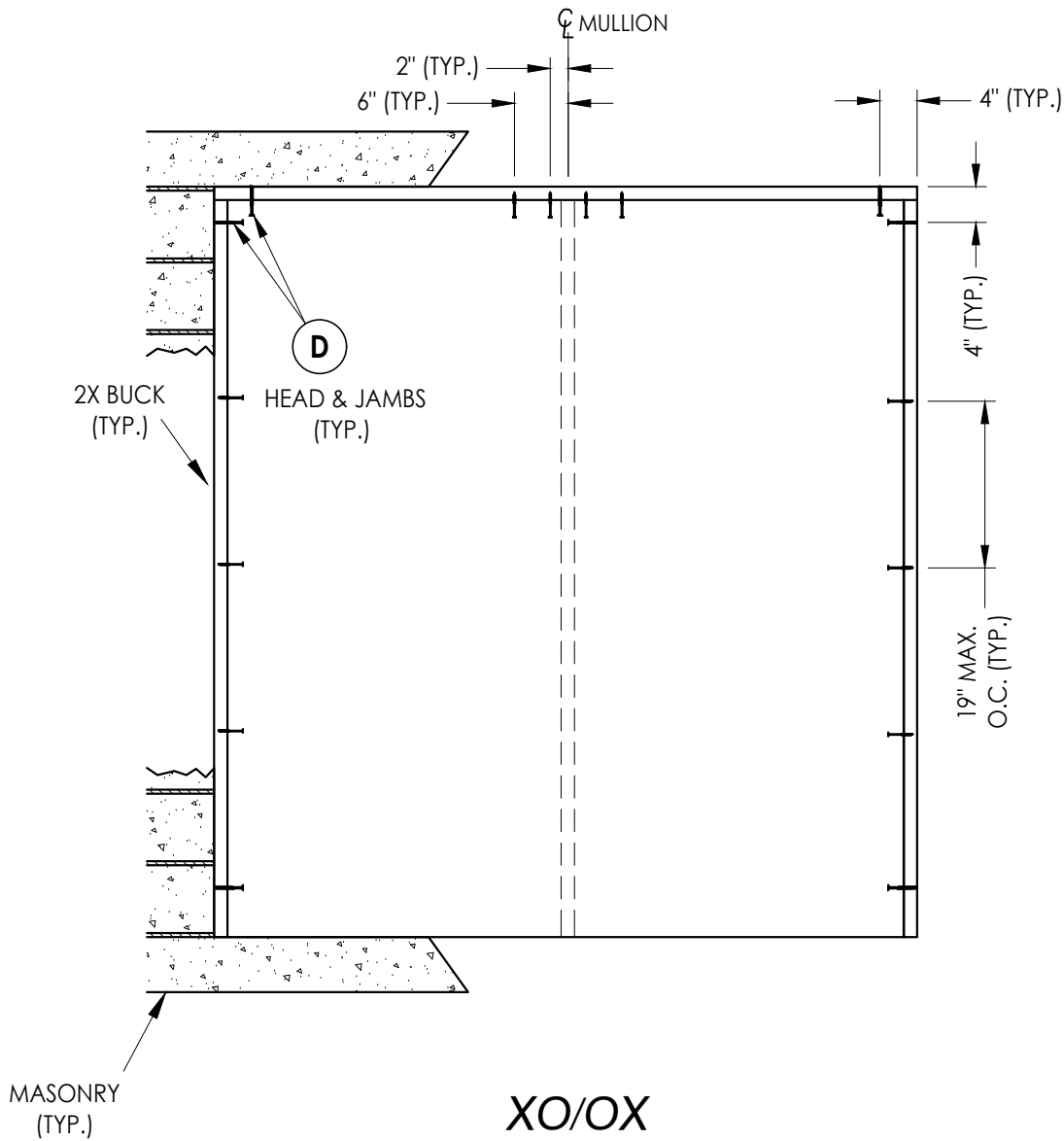
FL-30077.2

SHEET 7 OF 14

1. Sill Item #'s 17, 18, & 19 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item # 16 is attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).

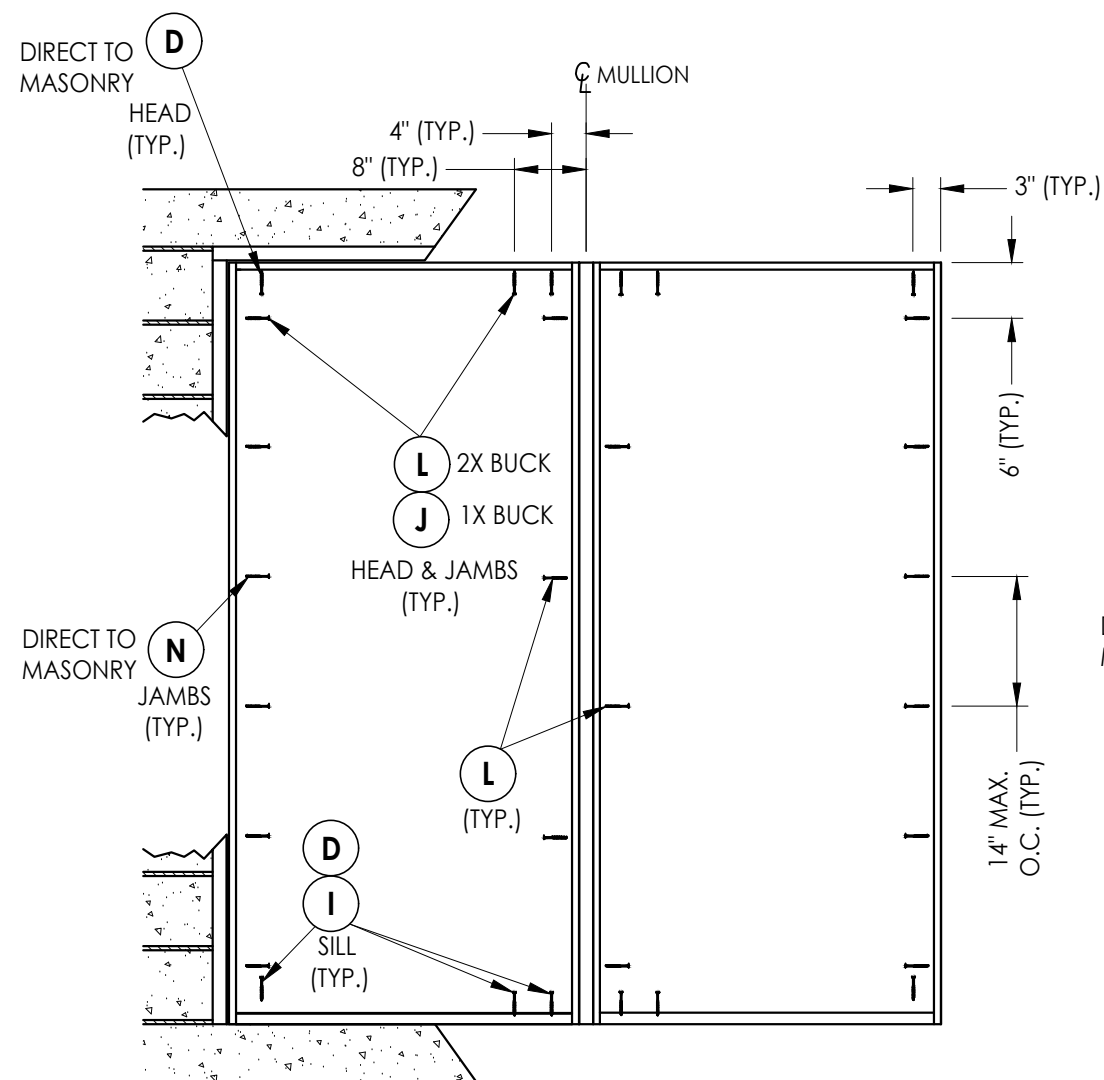


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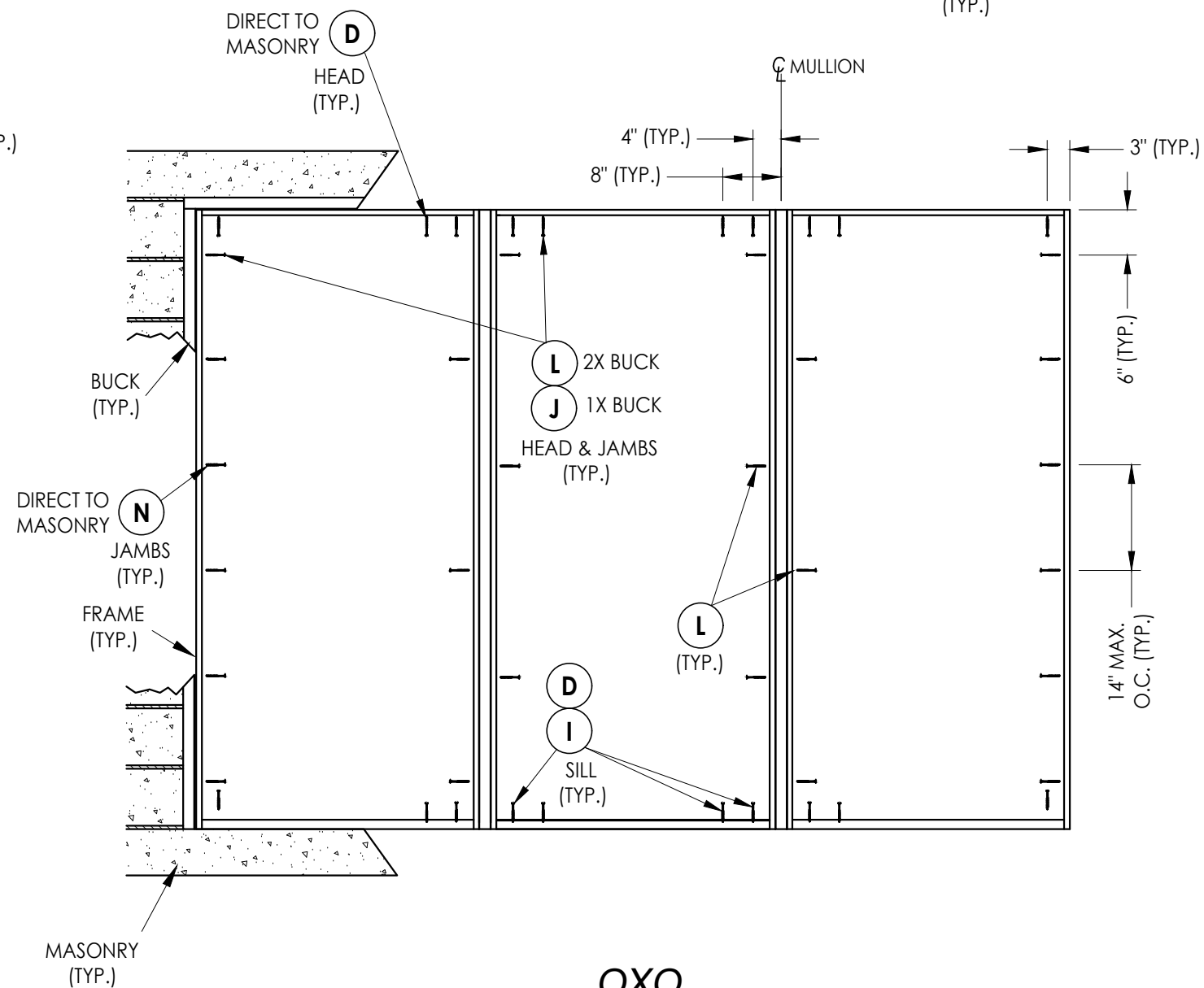


2X BUCK ANCHORING

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PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: BUCK ANCHORING					
				LFS	FBC	UPDATE TO 8TH ED. (2023)	
				PO	FBC	UPDATE TO 7th ED (2020)	
				BY			
				REVISIONS			
				NO.	DATE		
2	8/17/23						
1	7/15/20						
DATE: 08/12/19							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-30077.2							
SHEET 9 OF 14							

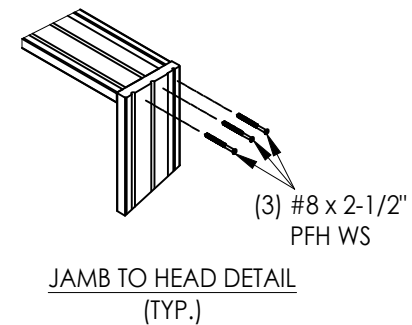


XO/OX



OXO

FRAME ANCHORING



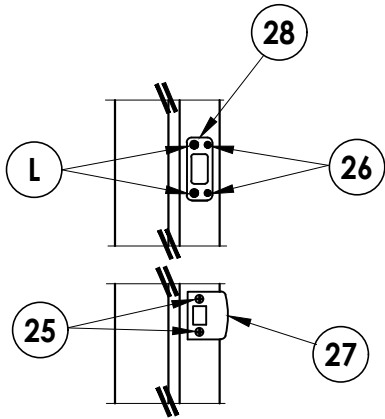
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1	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO	
NO.	DATE	REVISIONS			

DATE:	08/12/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-30077.2
SHEET	10 OF 14

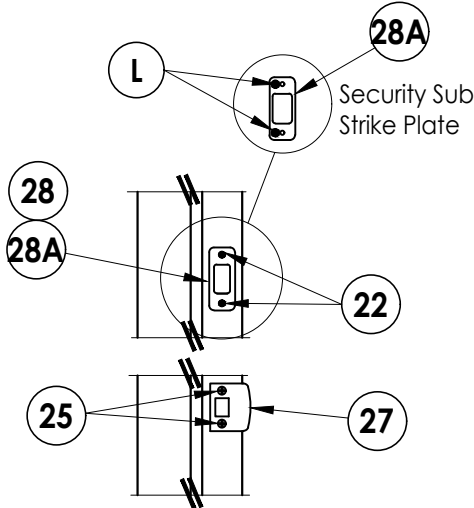
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

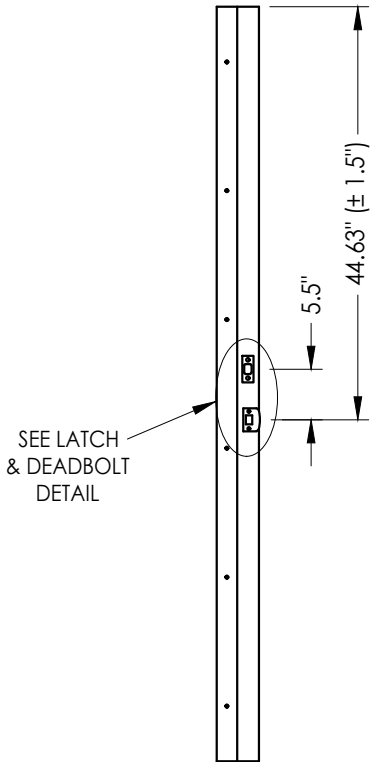
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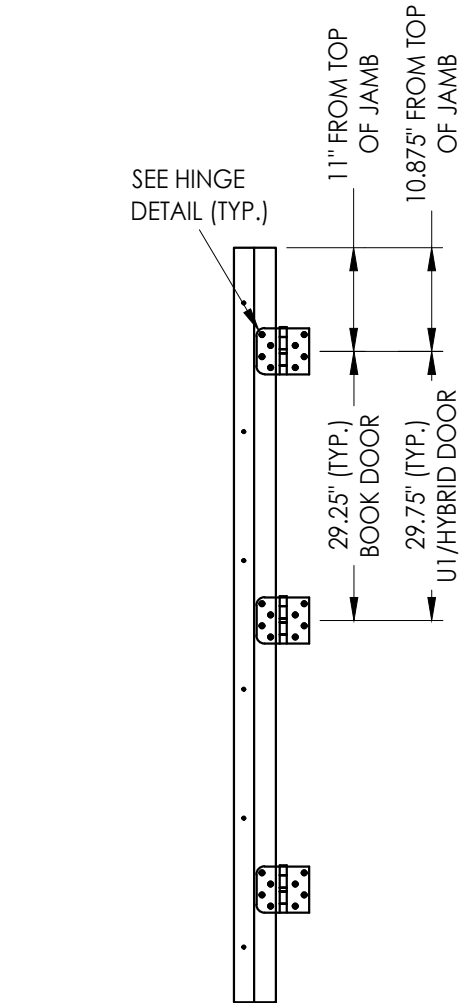
LATCH & DEADBOLT DETAIL
Kwikset



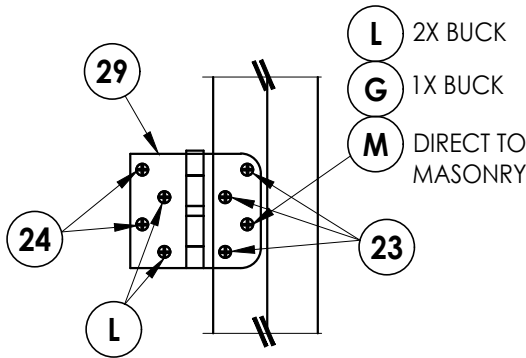
LATCH & DEADBOLT DETAIL
Schlage



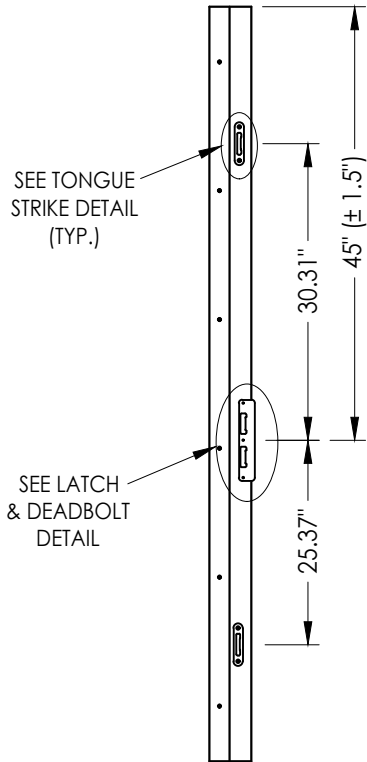
STRIKE JAMB
Latch and Deadbolt



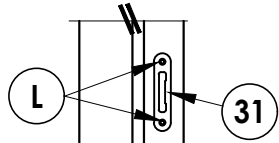
HINGE JAMB



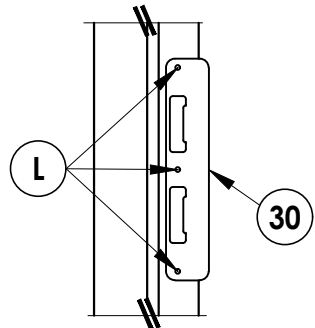
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock



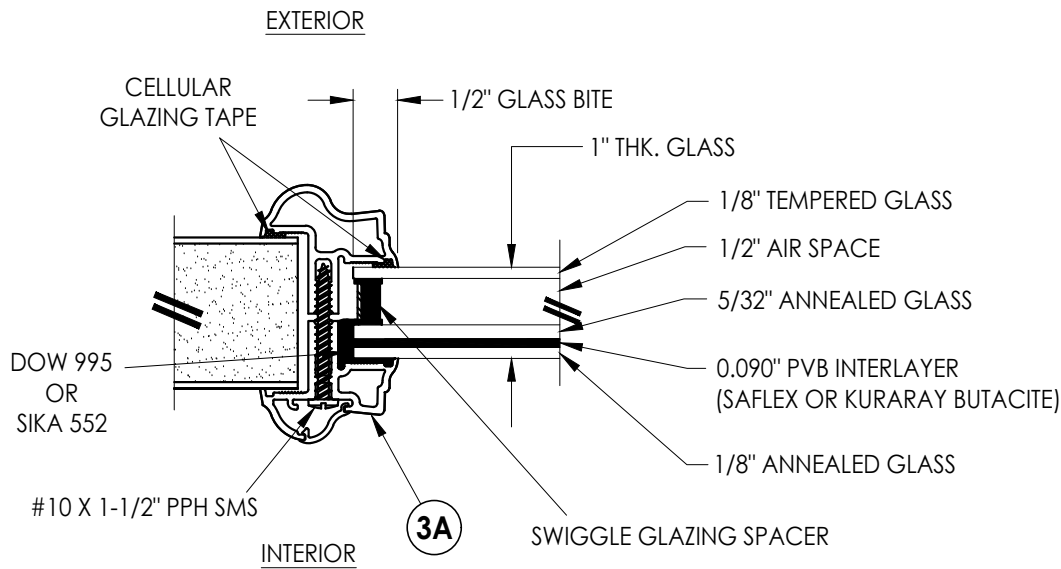
LATCH & DEADBOLT DETAIL
Multipoint Lock

MULTIPOINT LOCK STRIKE DETAILS

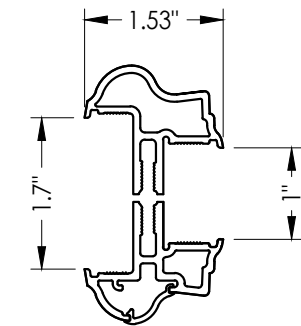
LATCH & DEADBOLT STRIKE DETAILS

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		R ^W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HARDWARE DETAILS	
		LFS	BY
		FBC	PO
2	8/17/23	UPDATE TO 8TH ED. (2023)	DATE
1	7/15/20	UPDATE TO 7th ED (2020)	NO.
		REVISIONS	
DATE: 08/12/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-30077.2			
SHEET 11 OF 14			

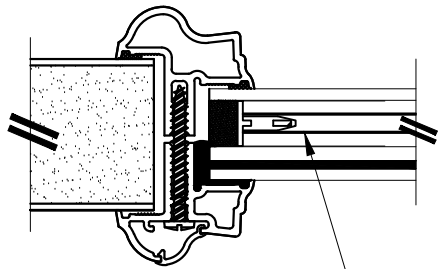
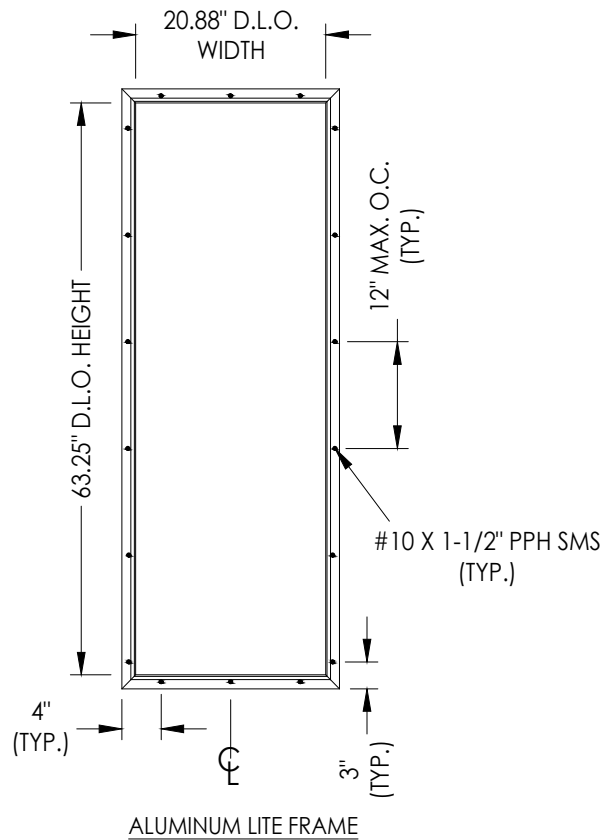
G:\2023 FBC DRAWINGS\Therma-Tru\FL-30077 R2\FL-30077.1-3.dwg



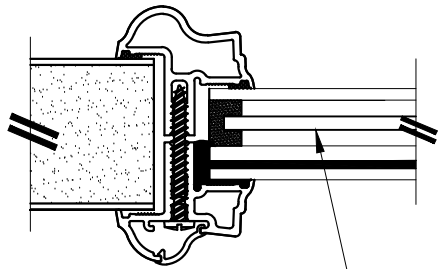
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



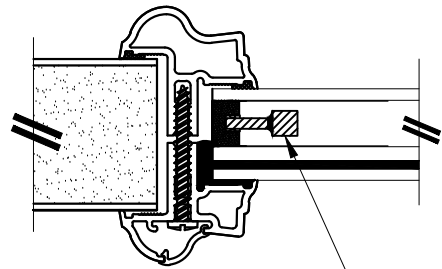
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



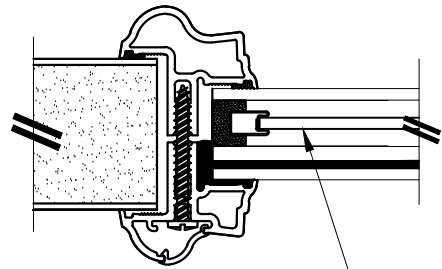
INTERNAL GRID (GBG)



PRIVACY INSERT



WROUGHT IRON INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 08/12/19

SCALE: N.T.S.

DWG. BY: RW

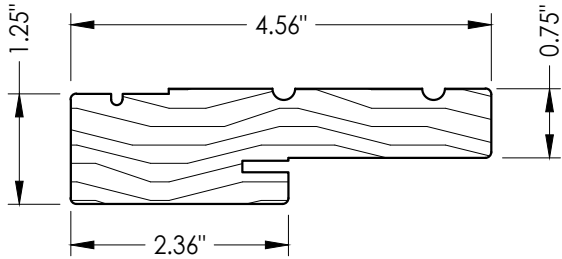
CHK. BY: LFS

DRAWING NO.:

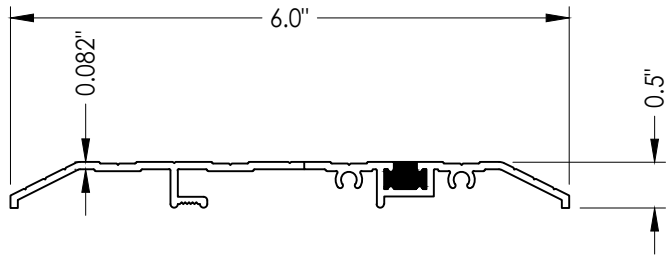
FL-30077.2

SHEET 12 OF 14

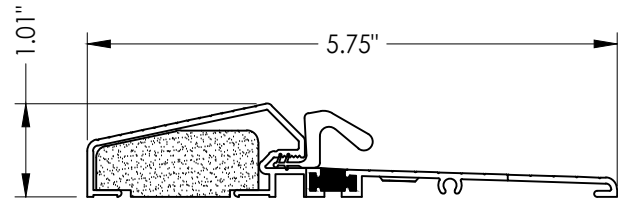
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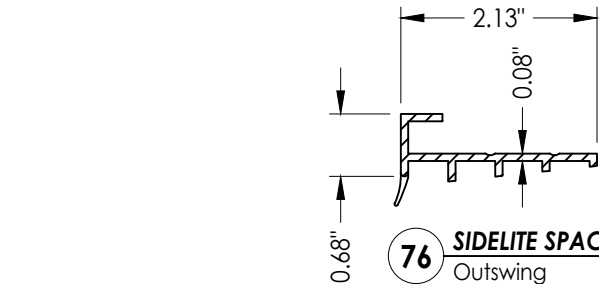
1 WOOD JAMB



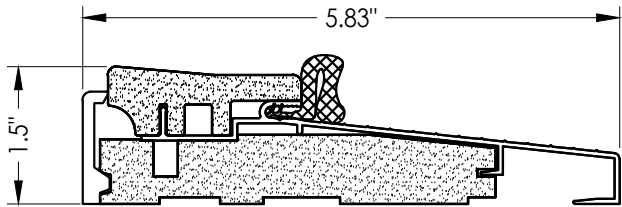
15 PUBLIC ACCESS THRESHOLD



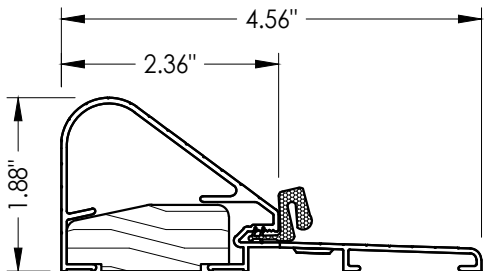
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



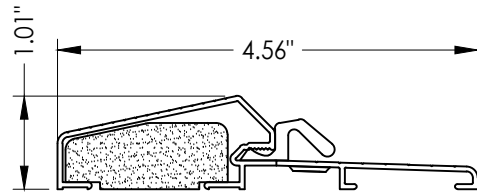
76 SIDELITE SPACER
Outswing



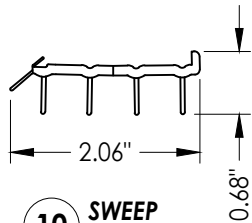
16 OUTSWING THRESHOLD
Composite Sill



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-30077.2

SHEET 13 OF 14

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
COMPONENTS

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

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
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR 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	40	DOOR PANEL (BOOK)	-
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	41	DOOR PANEL (HYBRID)	-
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	42	DOOR PANEL (U1)	-
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	50	SIDELITE	-
1	JAMB (FINGER JOINT PINE)	WOOD	76	SIDELITE SPACER (OUTSWING)	PVC
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	88	2X MULLION (SG >= 0.55)	WOOD
7	WEATHERSTRIP (LONG REACH)	FOAM			
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	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			

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]