

THERMA-TRU[®] DOORS

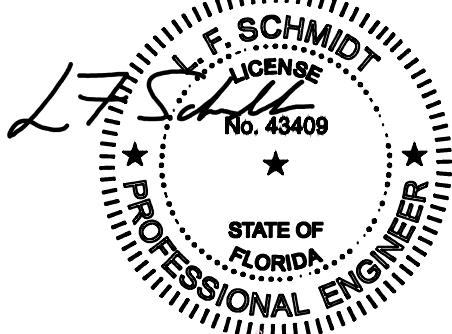
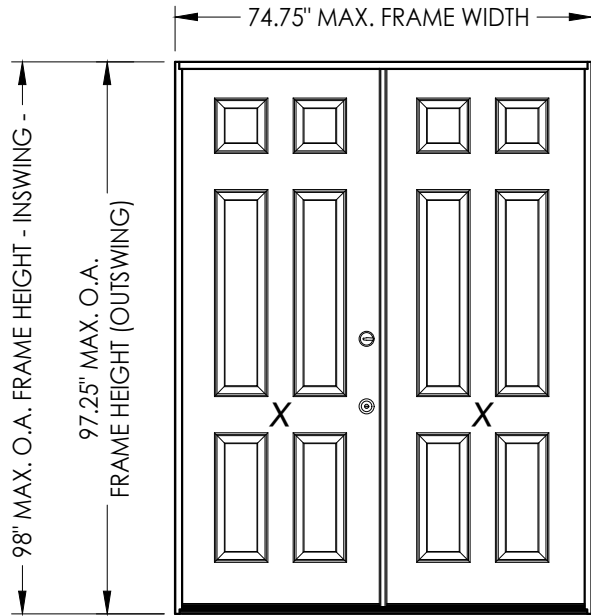
Fiber-Classic[®] & Smooth-Star[®]

WOOD EDGE OPAQUE FIBERGLASS DOUBLE DOOR w/ or w/out SIDELITES 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 #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.

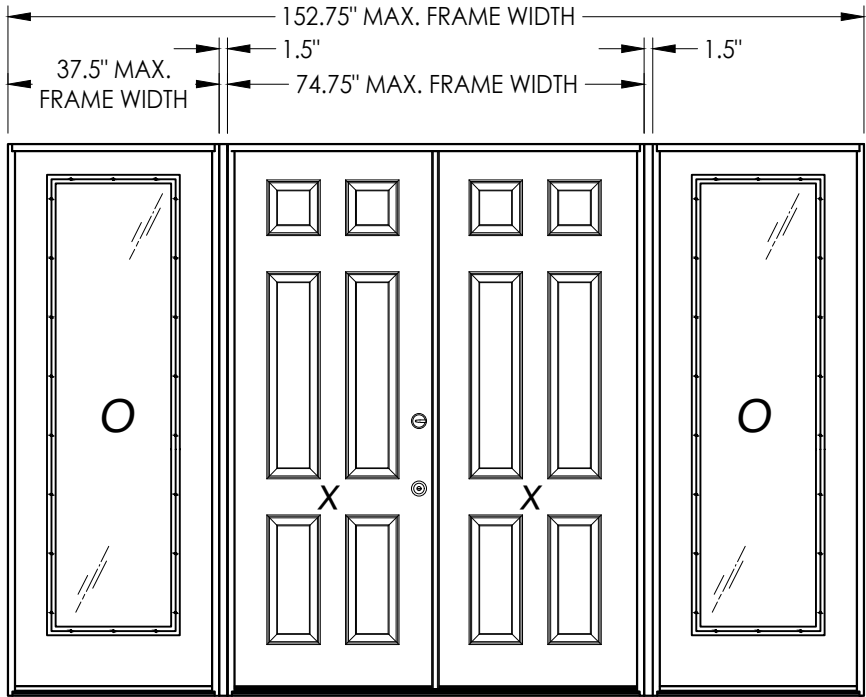
TABLE OF CONTENTS			
SHEET#	DESCRIPTION	SHEET#	
1	Typical Elevations, Design Pressures & General Notes	8	Vertical Cross Sections (Thresholds)
2	Door Panel Details	9	Buck Anchoring
3	Sidelite Panel Details	10	Frame Anchoring
4	Elevations	11	Hardware Details
5	Horizontal & Vertical Cross Sections (2X Buck)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



Digitally signed by Lyndon F Schmidt
Date: 2023.08.18 12:58:29 -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
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must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
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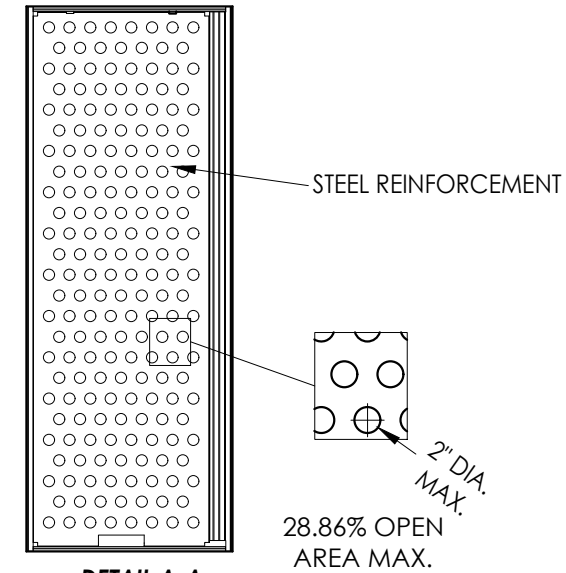


CONFIGURATION	LOCK HARDWARE	LOCK & DEADBOLT SPACING	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	Latch & Deadbolt	5-1/2"	+50.0	-55.0	+55.0	-55.0
OXXO	Latch & Deadbolt	5-1/2"	+50.0	-55.0	+50.0	-50.0
XX	Latch & Deadbolt	12"	+60.0	-60.0	+65.0	-65.0
OXXO	Latch & Deadbolt	12"	+55.0	-55.0	+55.0	-55.0
XX, OXXO	Multipoint	N/A	+55.0	-55.0	+55.0	-55.0

See Sheet 4 for Hardware Specifications

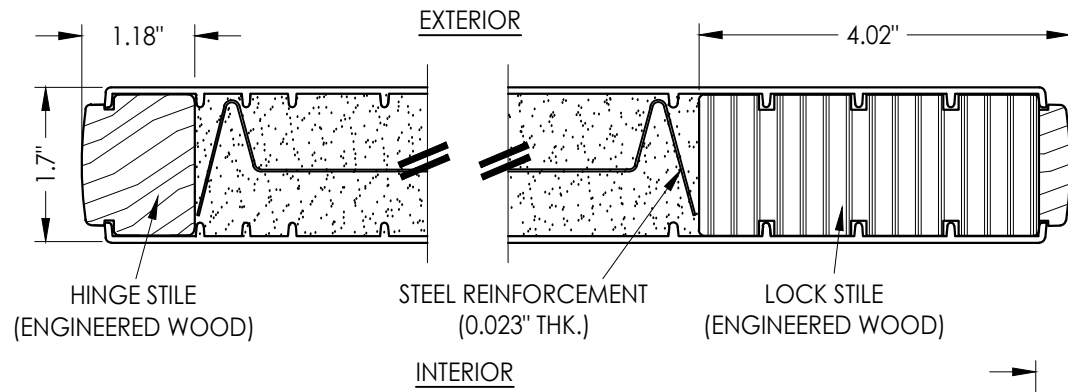
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES		REVISIONS			
				3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC LFS
				2	7/15/20	UPDATE TO 7th ED (2020)	FBC PO
				1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS
				NO.	DATE		BY
DATE: 12/22/16							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21142.6							
SHEET 1 OF 14							

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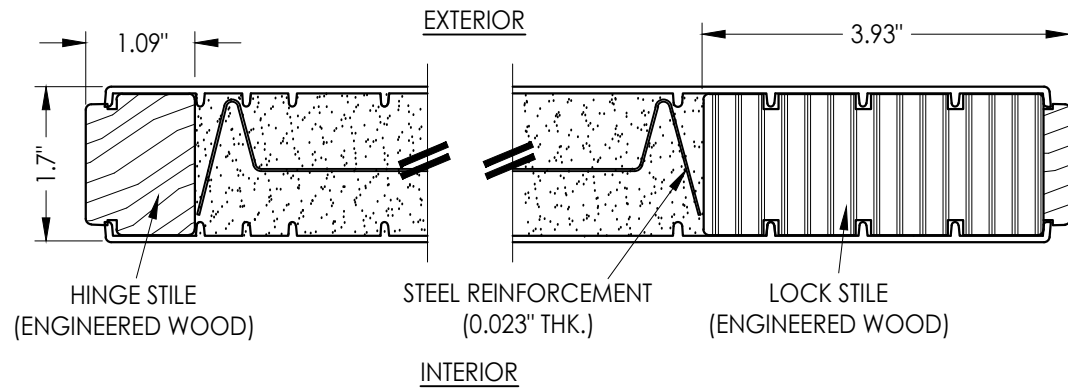


DETAIL A-A
PANEL REINFORCEMENT
(0.023" Thick Steel)

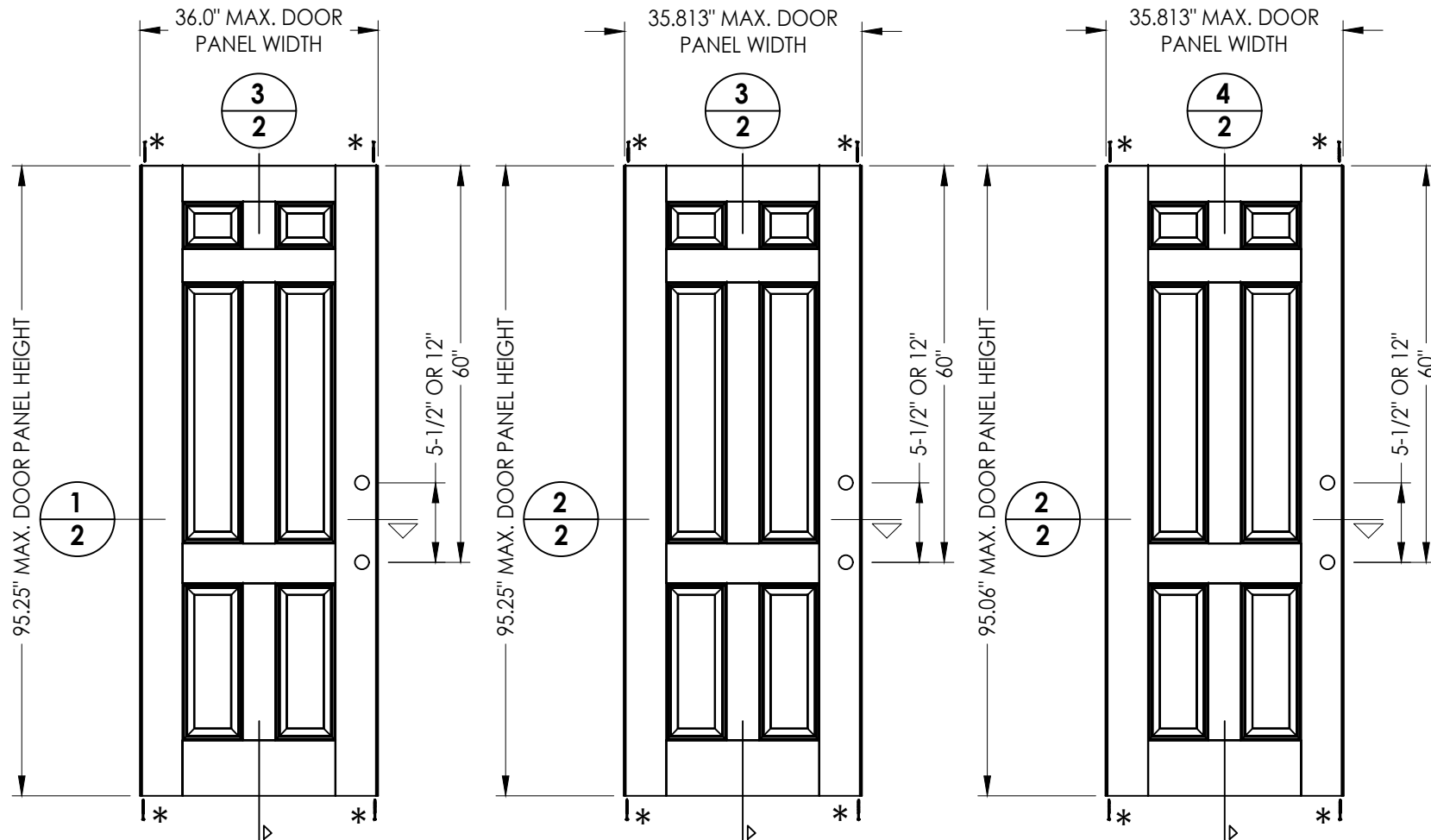
* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



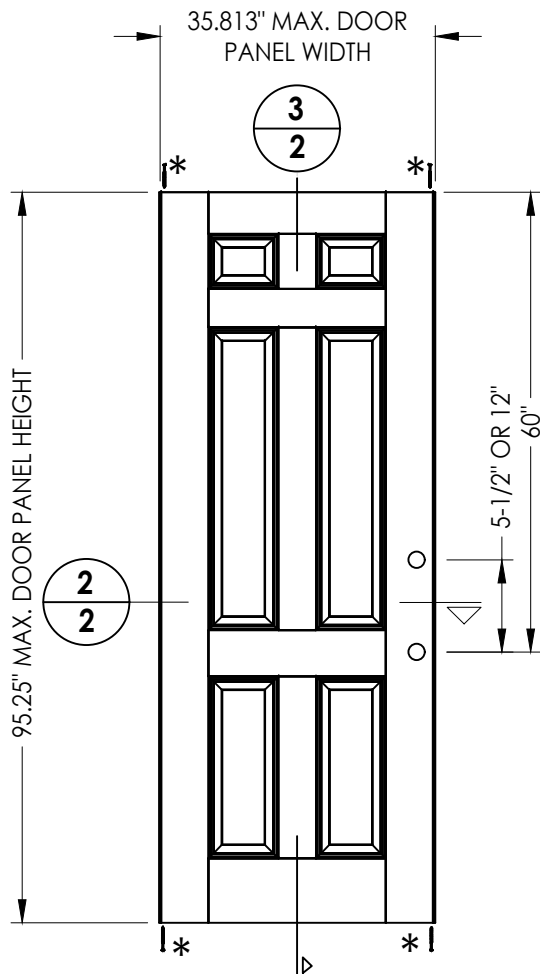
1 2 HORIZONTAL CROSS SECTION



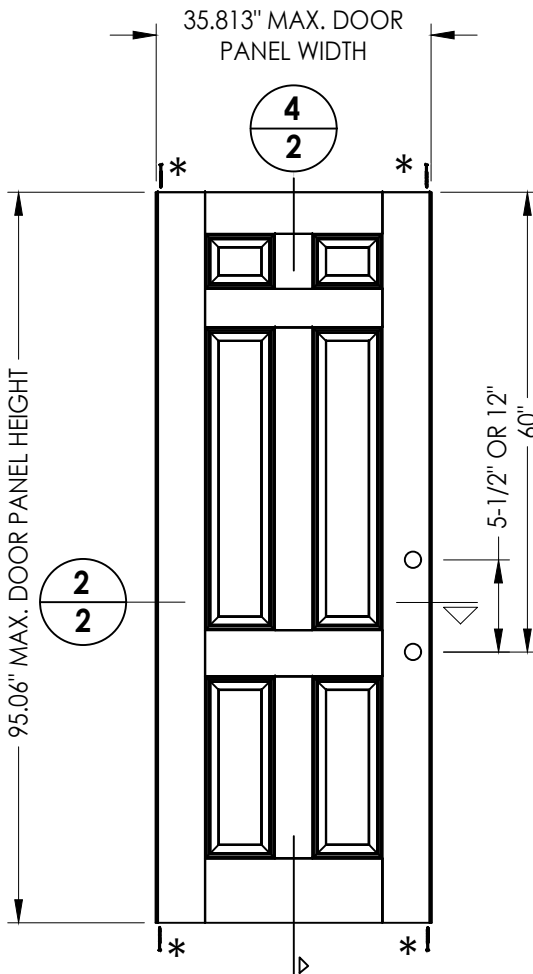
2 2 HORIZONTAL CROSS SECTION



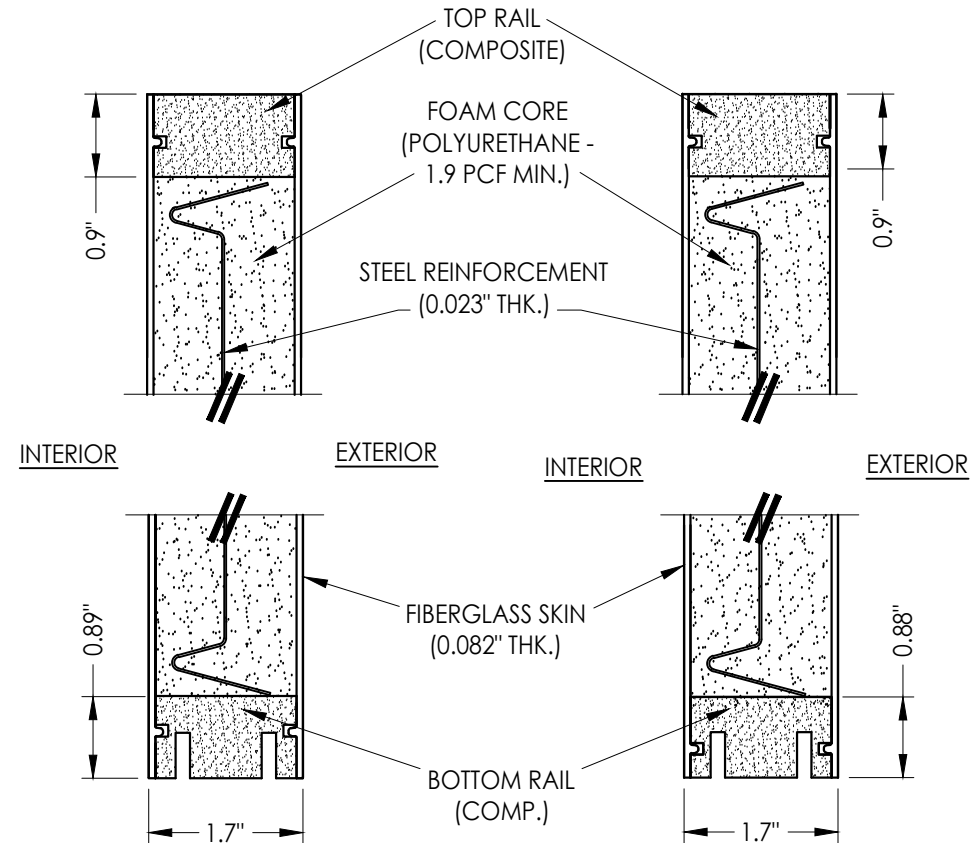
40 DOOR PANEL
BOOK



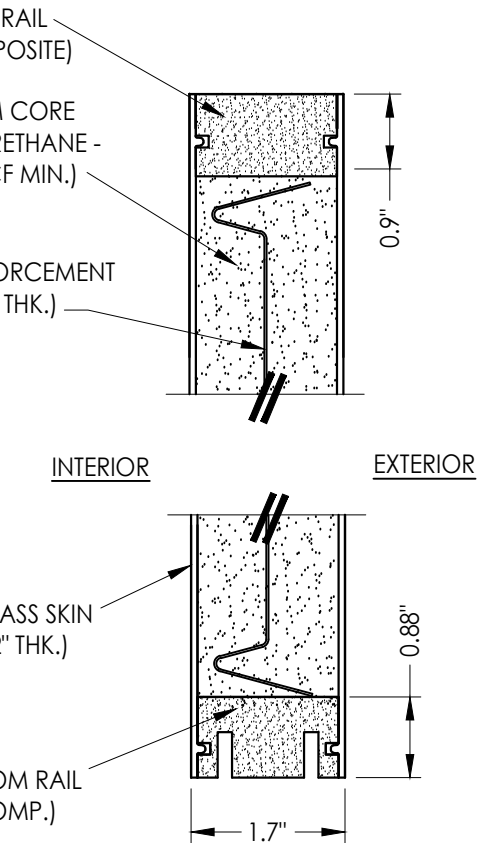
41 DOOR PANEL
Hybrid Door



42 DOOR PANEL
U1 Door



3 2 VERTICAL CROSS SECTION



4 2 VERTICAL CROSS SECTION

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/15/20	UPDATE TO 7th ED (2020) FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING LFS

DATE: 12/22/16

SCALE: N.T.S.

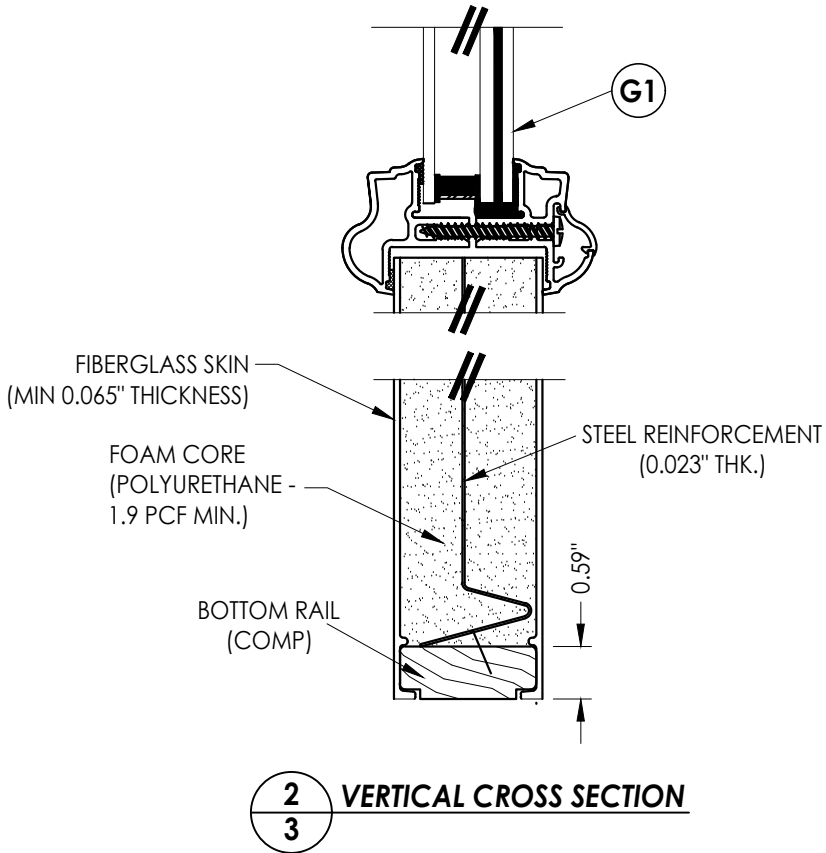
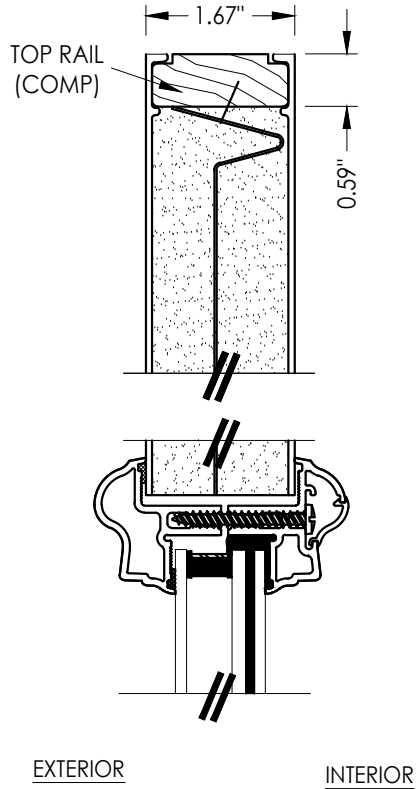
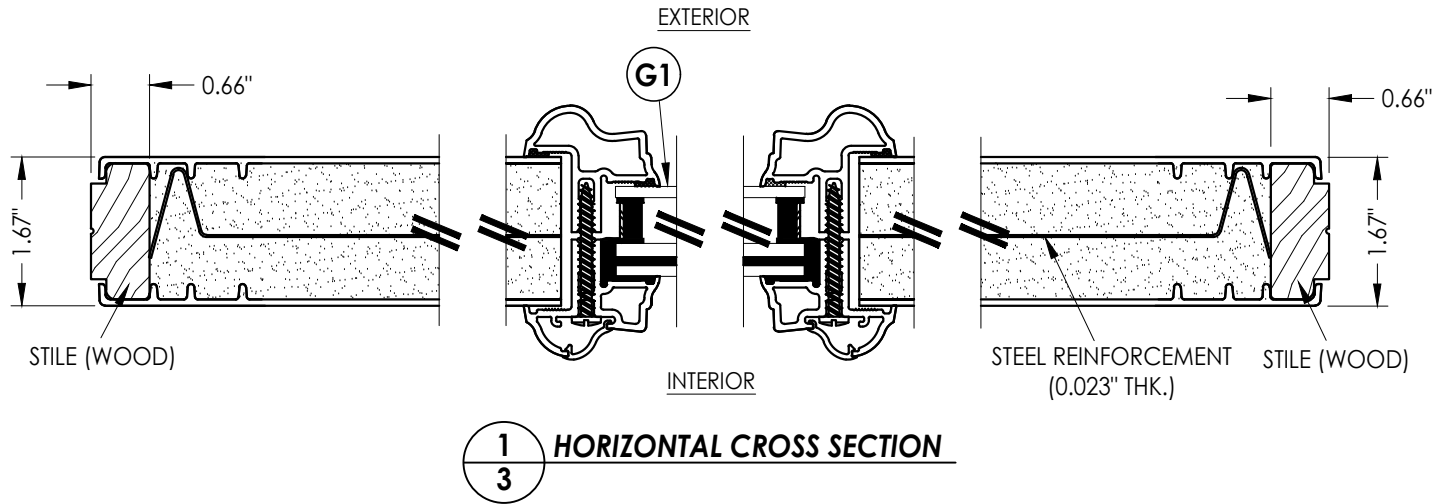
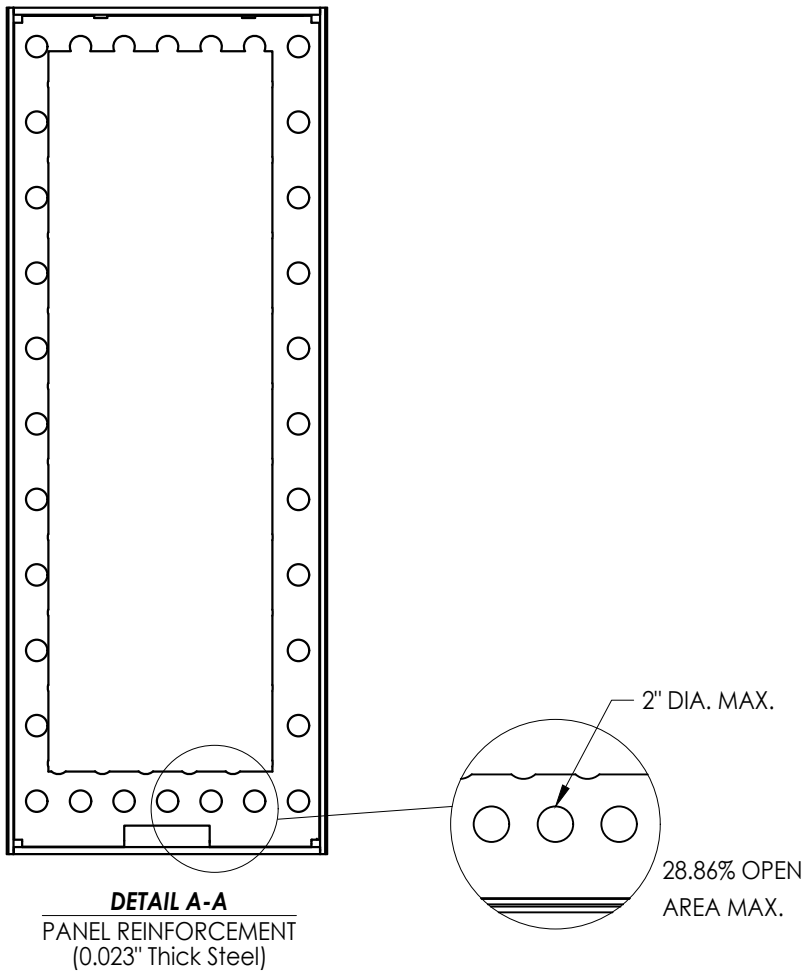
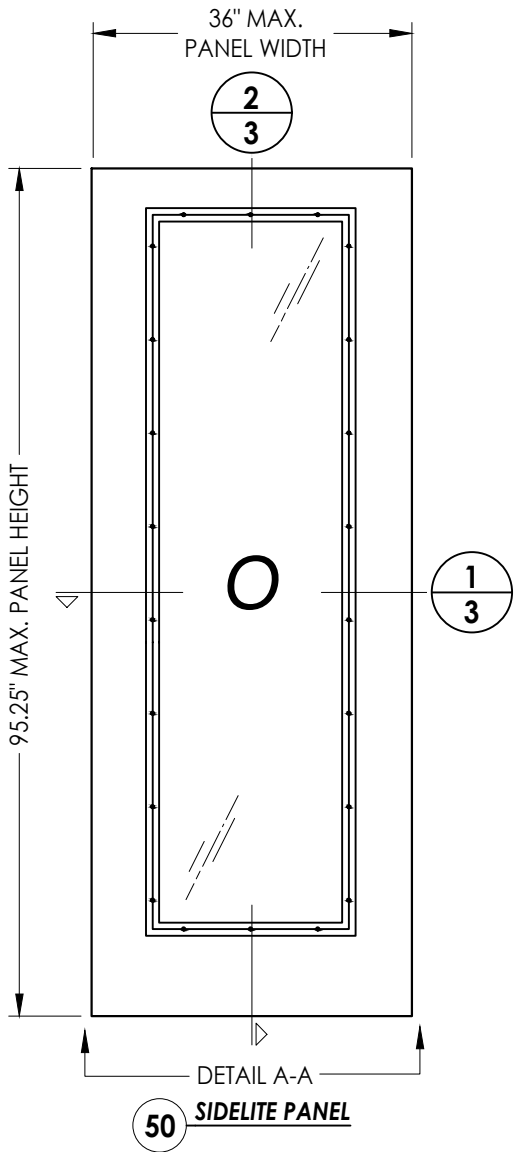
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21142.6

SHEET 2 OF 14

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DATE: 12/22/16

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CHK. BY: LFS

DRAWING NO.: FL-21142.6

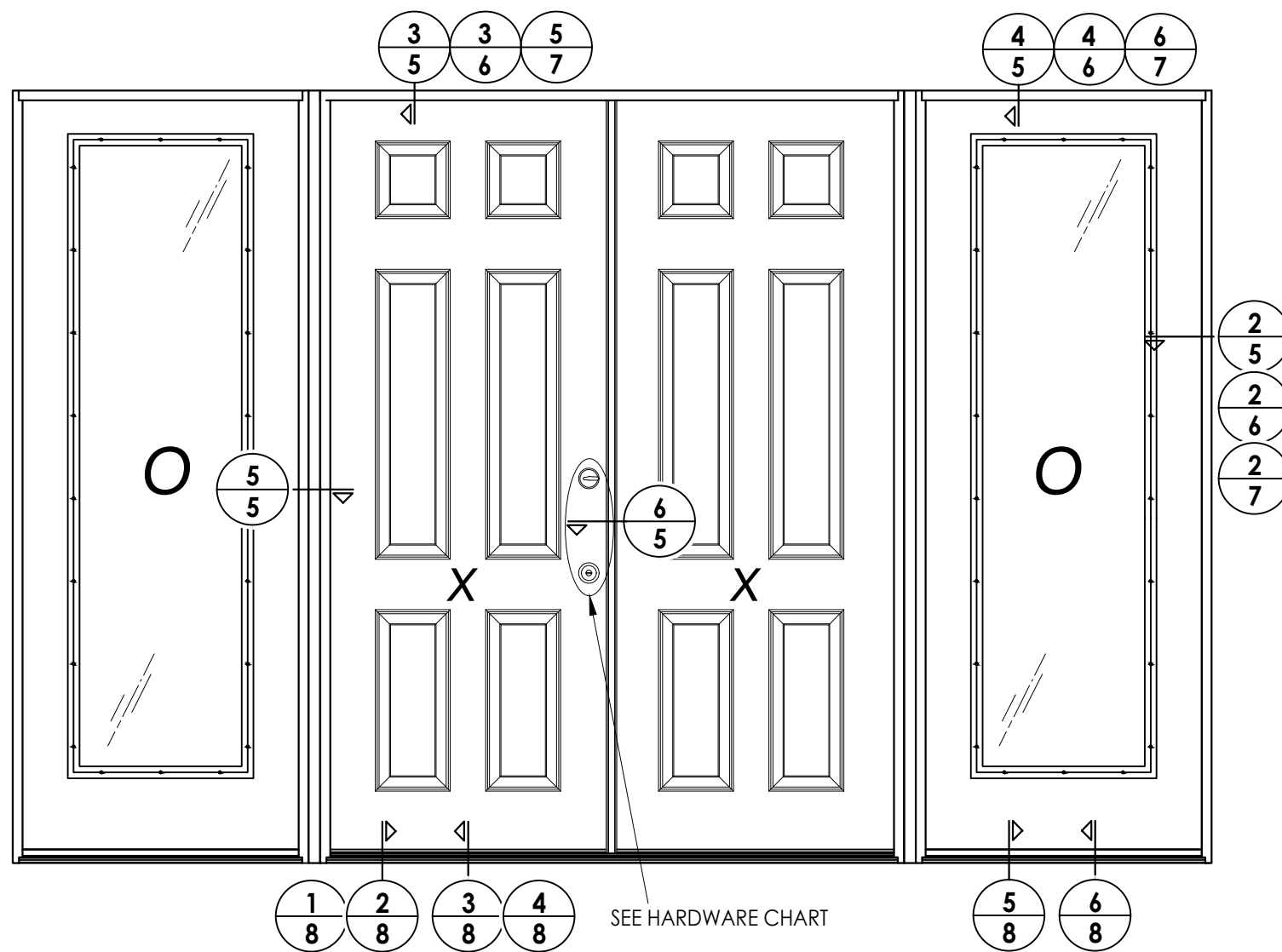
SHEET 3 OF 14

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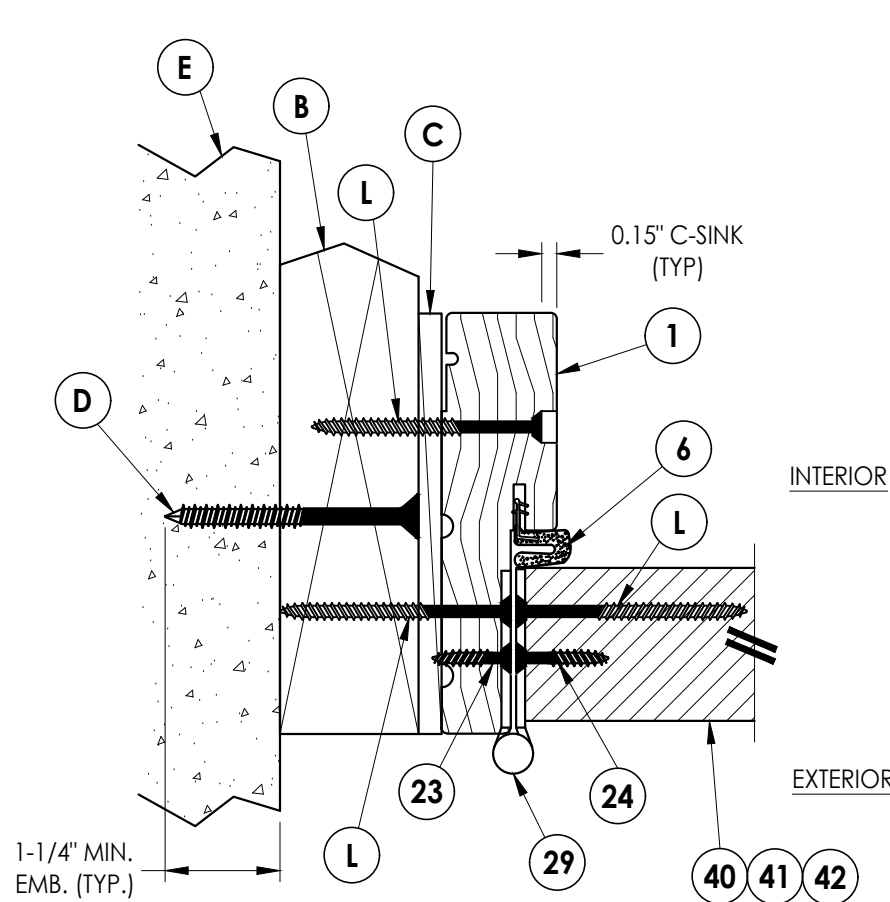
HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51 DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGSB (3 pt. Manual Shootbolt)

ASSEMBLY: ELEVATIONS

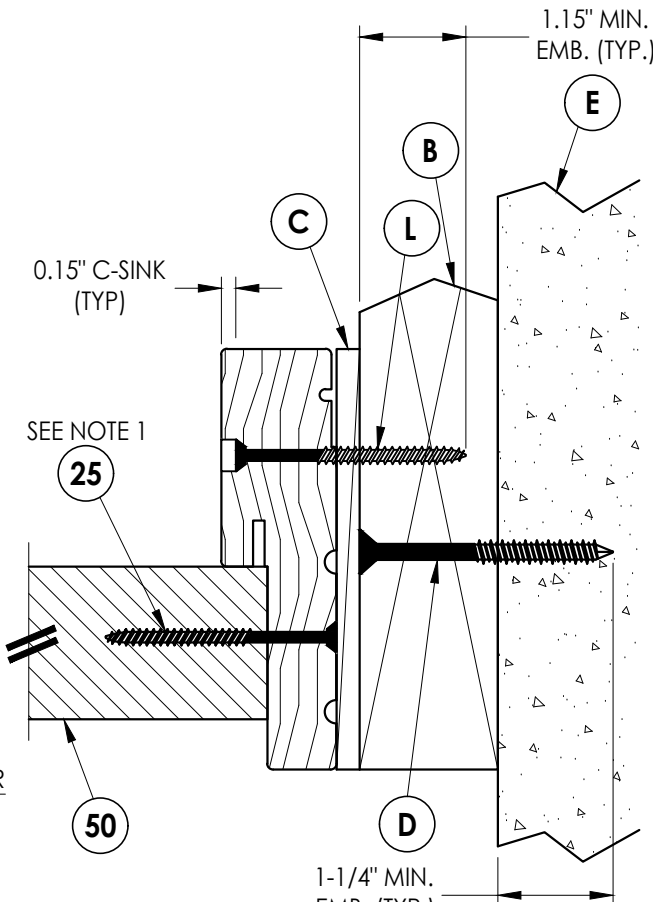
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2	7/15/20	UPDATE TO 7th ED	(2020)	P0 FBC
1	4/06/19	ADD 5-1/2"	LATCH/DB SPACING	LFS
NO.	DATE			
		REVISIONS		

FL-21142.6

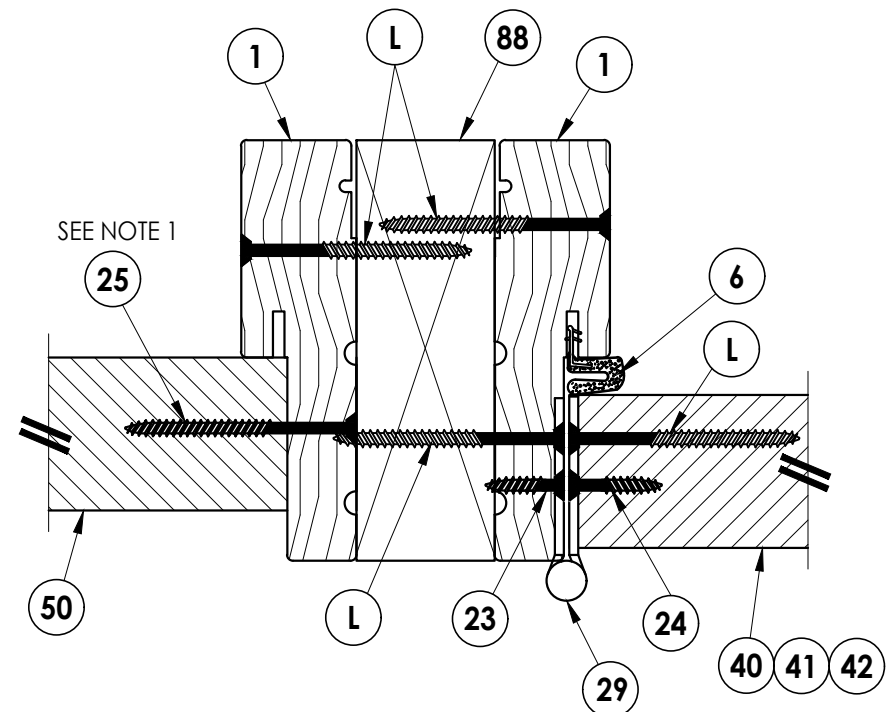
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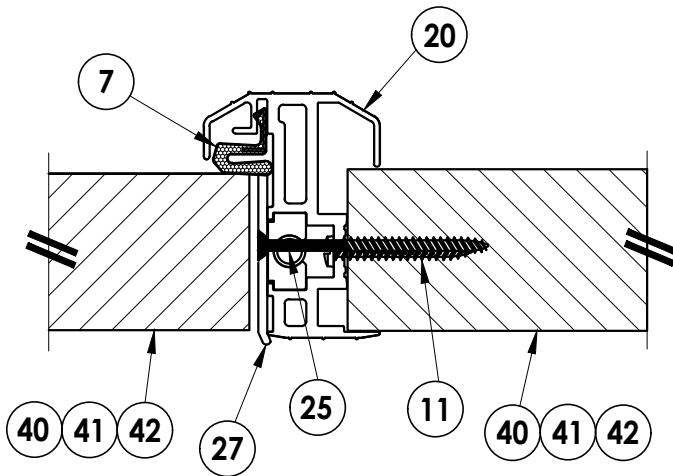
1 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



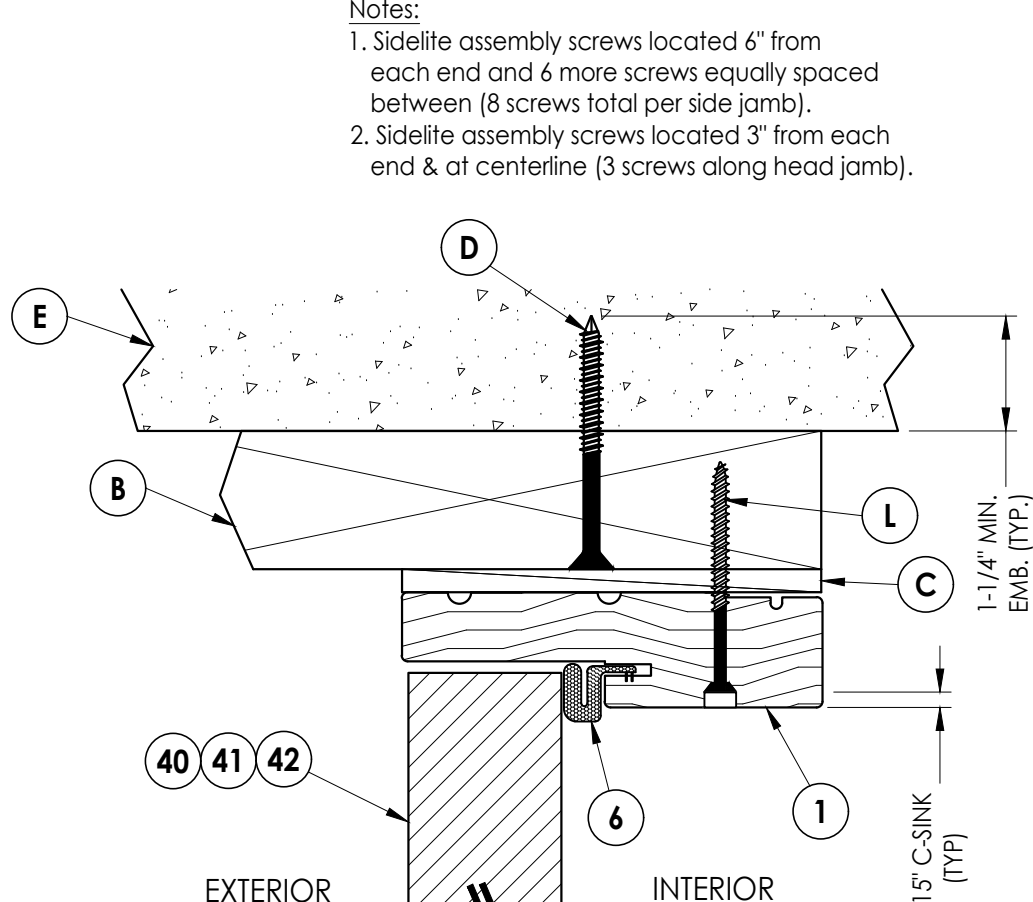
2 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



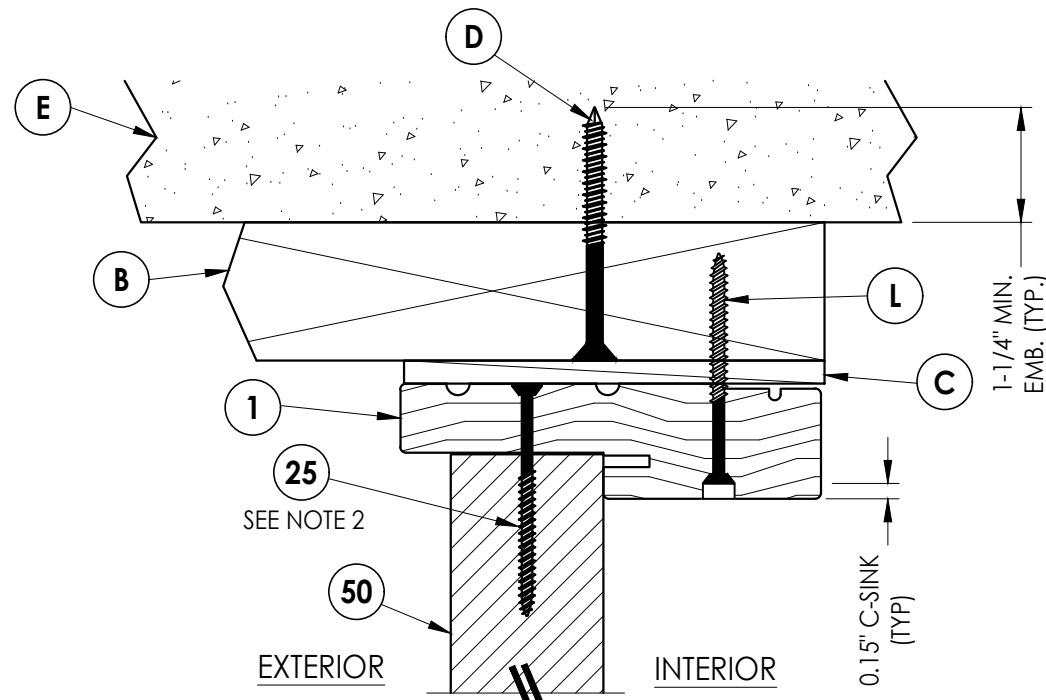
5 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



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



3 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)



4 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)

- 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:
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FBPE Registry No. 9813

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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/15/20	UPDATE TO 7th ED (2020) FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING LFS

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

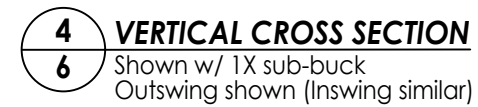
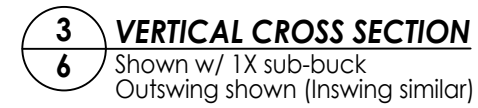
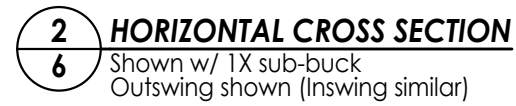
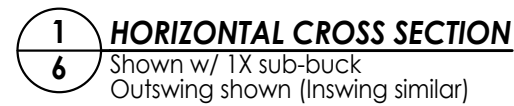
CHK. BY: LFS

DRAWING NO.:

FL-21142.6

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).

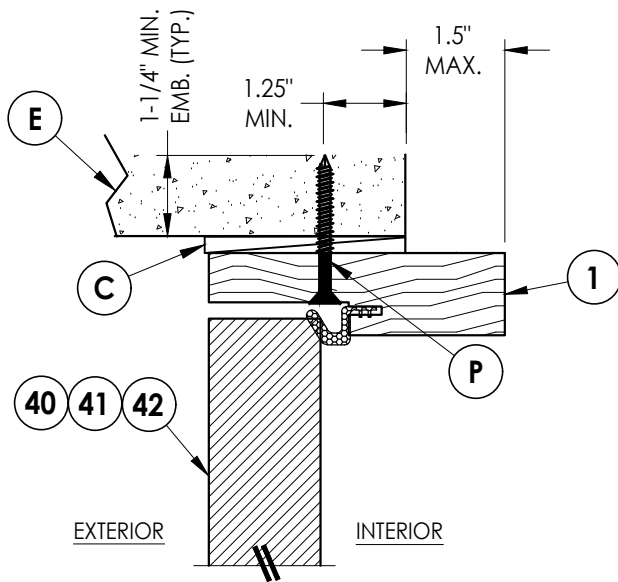
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P.E. No. 43409

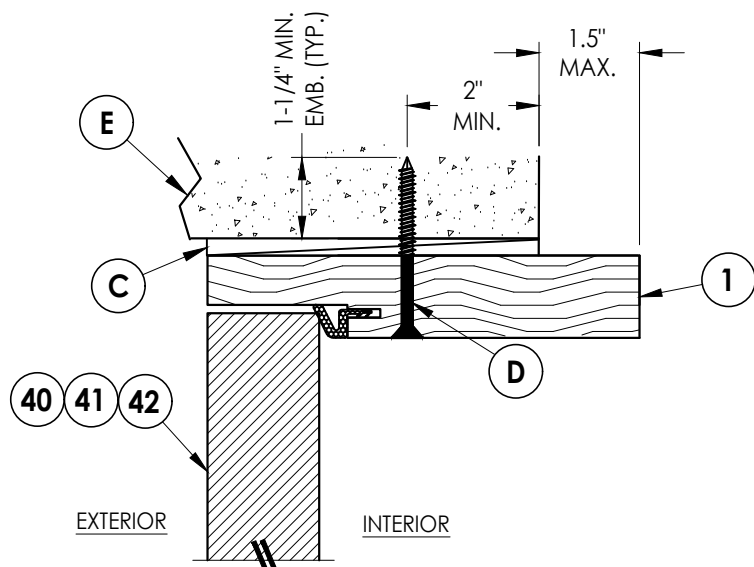
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FBPE Registry No. 9813

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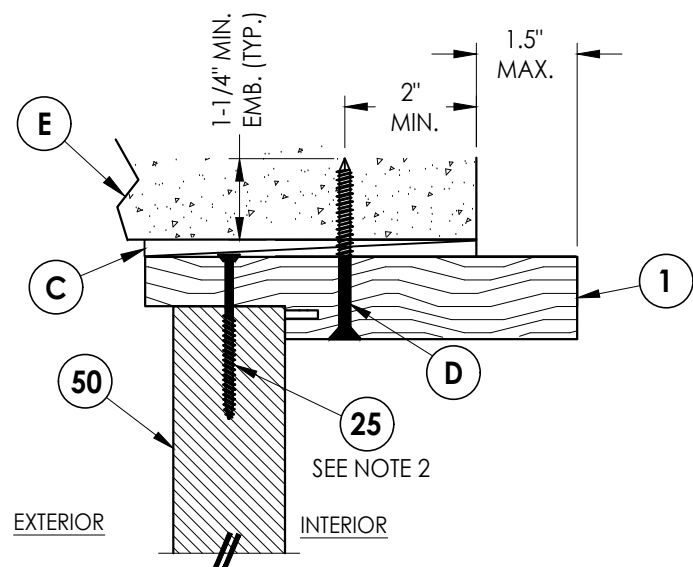
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**3
7 VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb
Double Door Only (N/A w/ Sidelites)



**5
7 VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

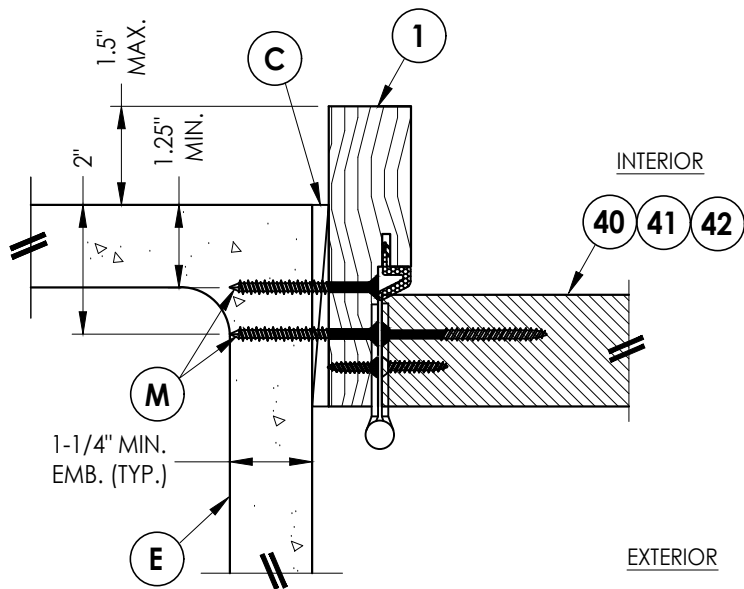


**6
7 VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

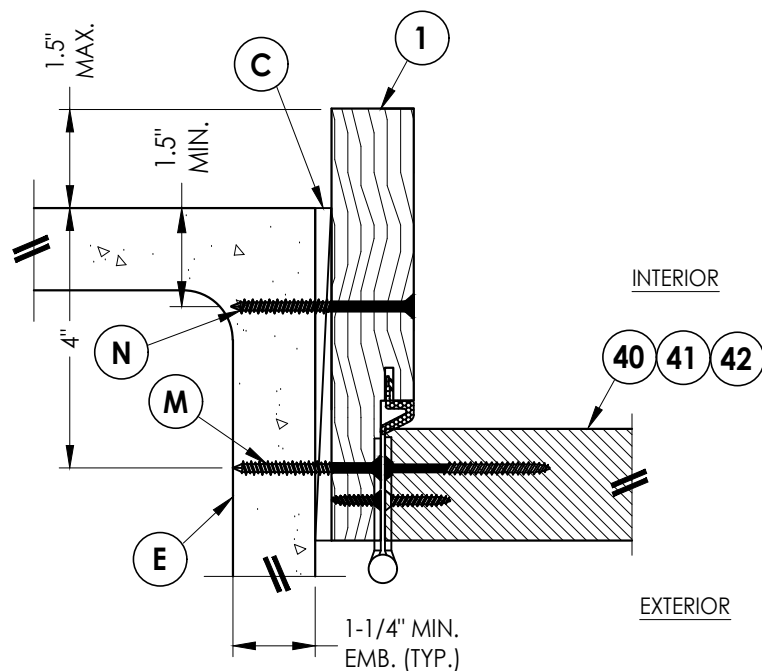
Notes:

1. Sidelite assembly screws located 6" from each end plus 6 more 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).

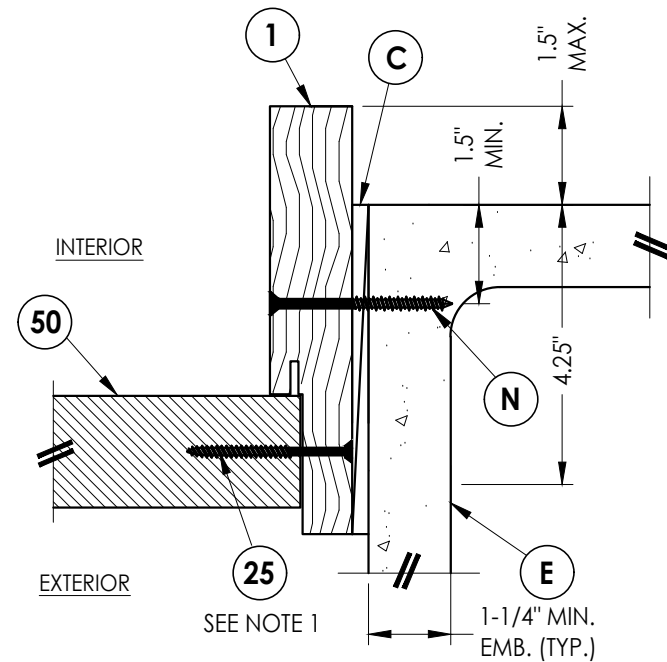
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
± 47 PSF



**1
7 HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb
Double Door Only (N/A w/ Sidelites)



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



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

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

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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

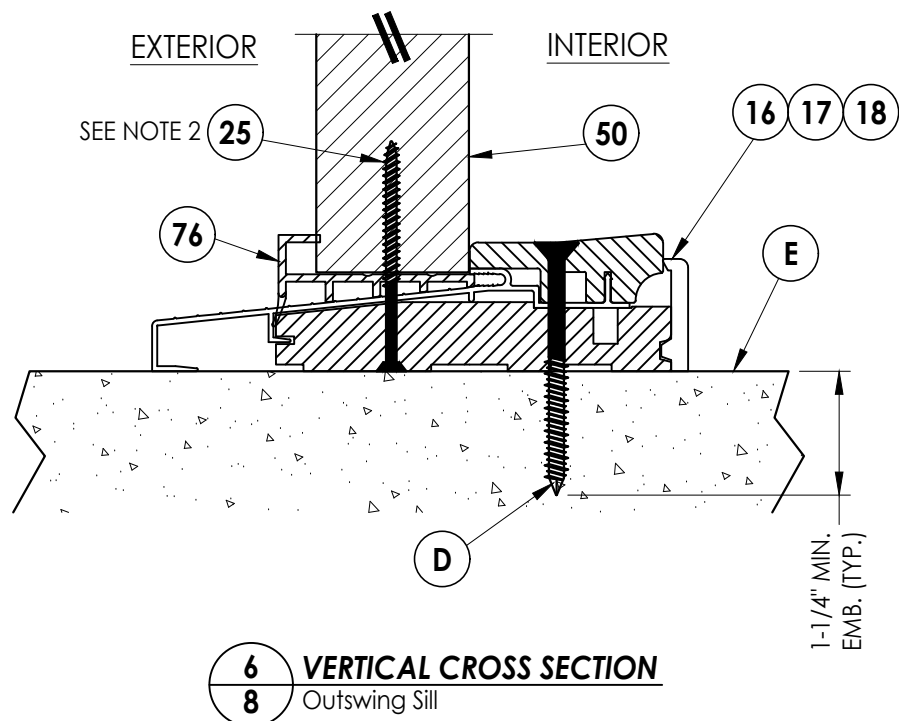
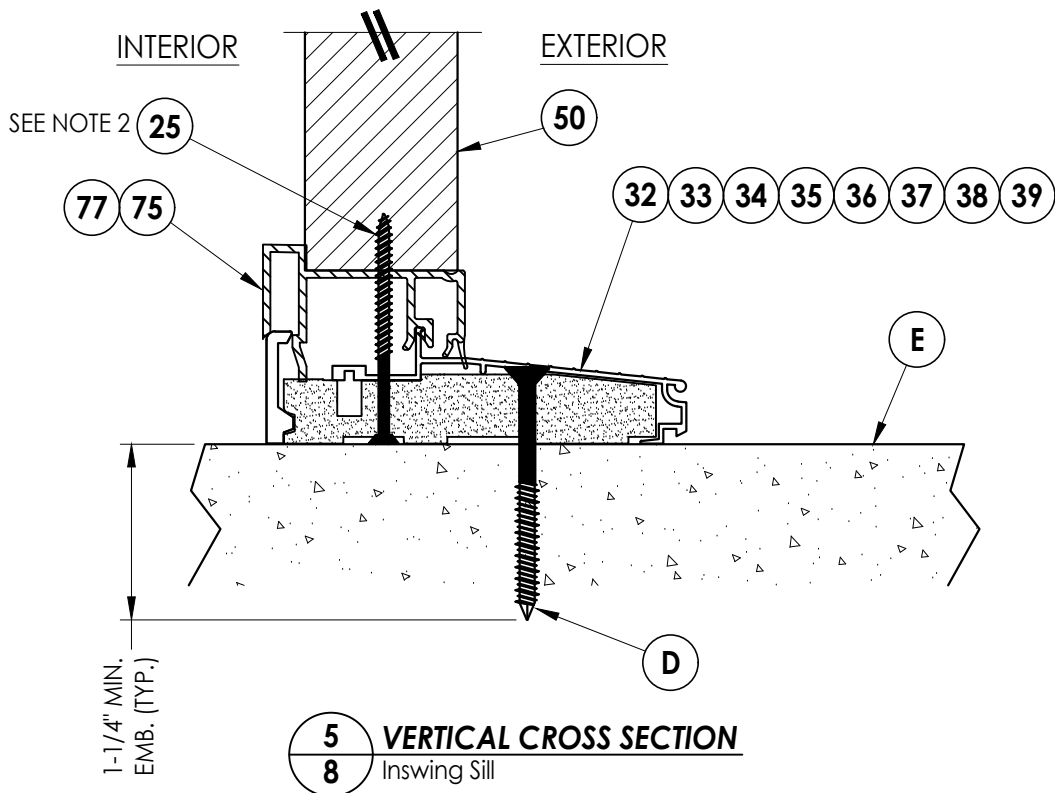
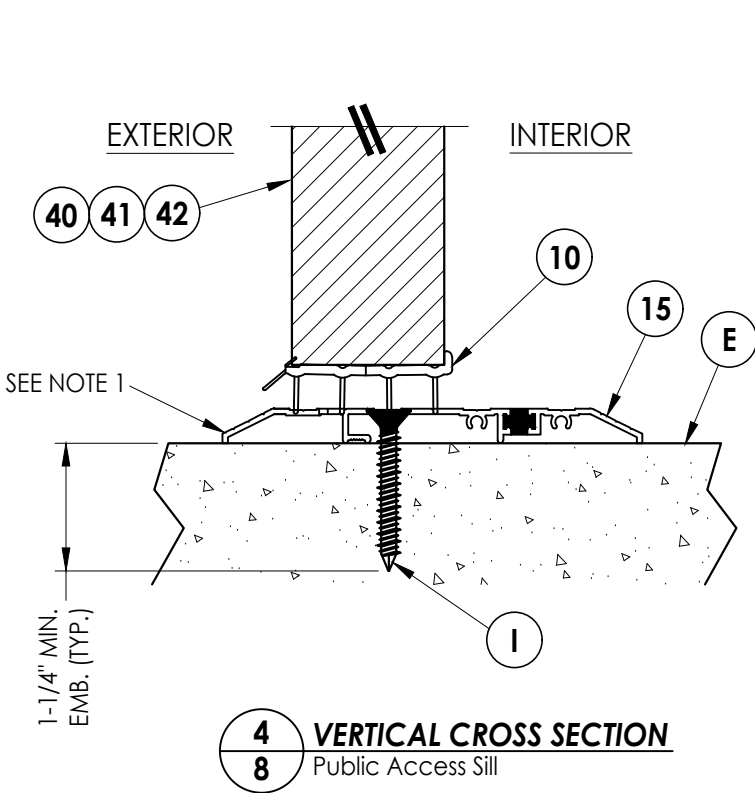
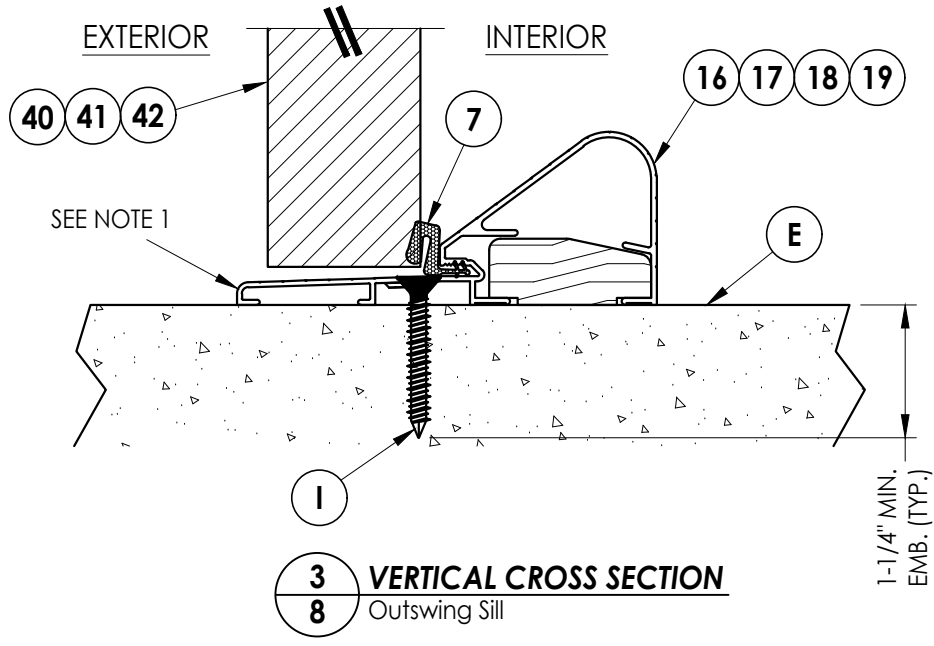
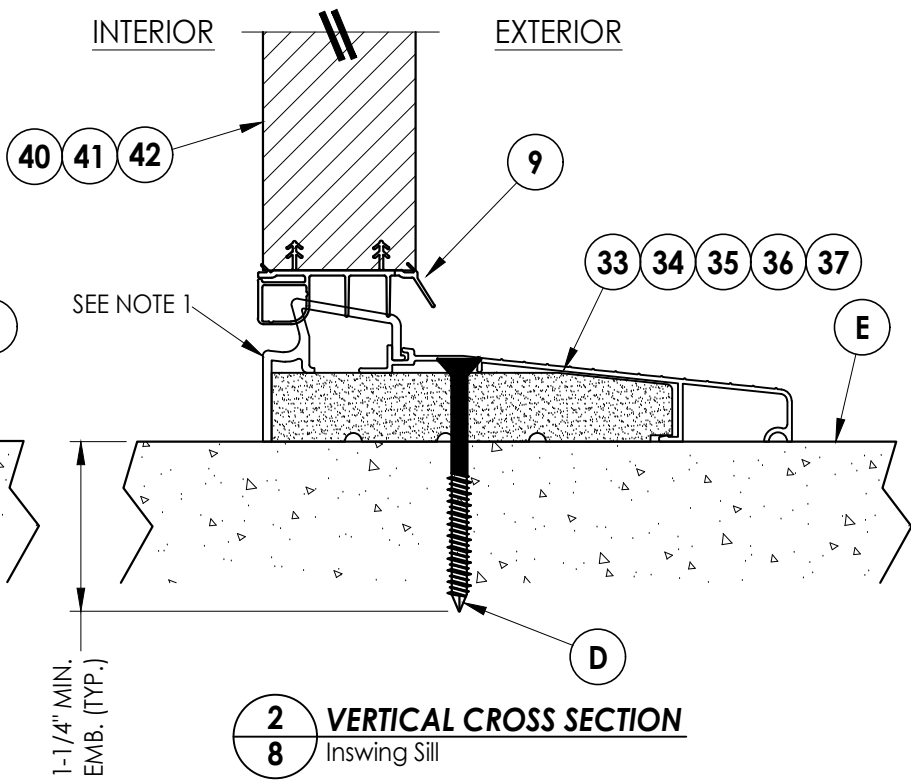
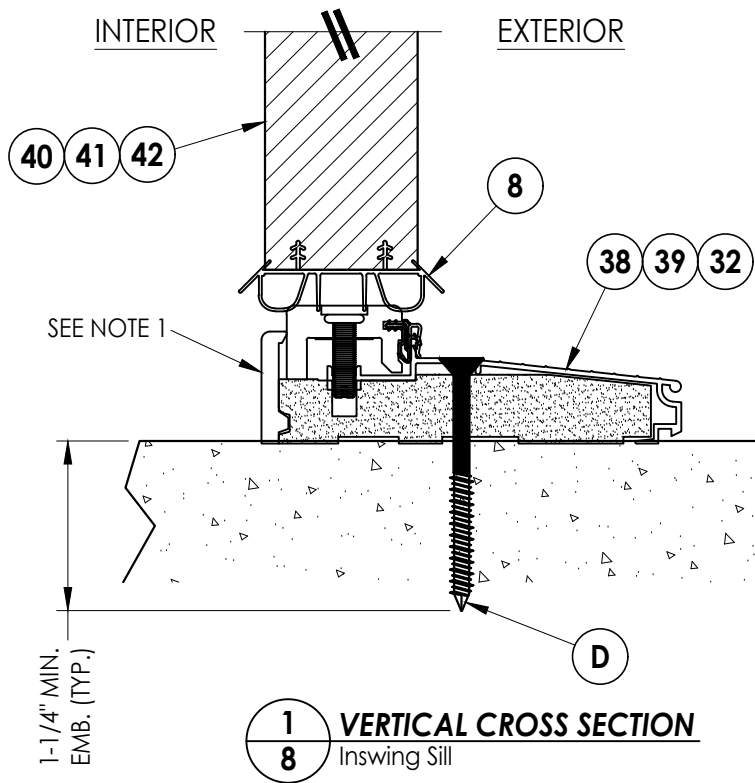
NO.	DATE	BY	REVISIONS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	7/15/20	UPDATE TO 7th ED (2020) FBC	PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING	LFS

DATE: 12/22/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21142.6
SHEET 7 OF 14

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Notes:

1. Sill Item #'s 17, 18, 19, 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.
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



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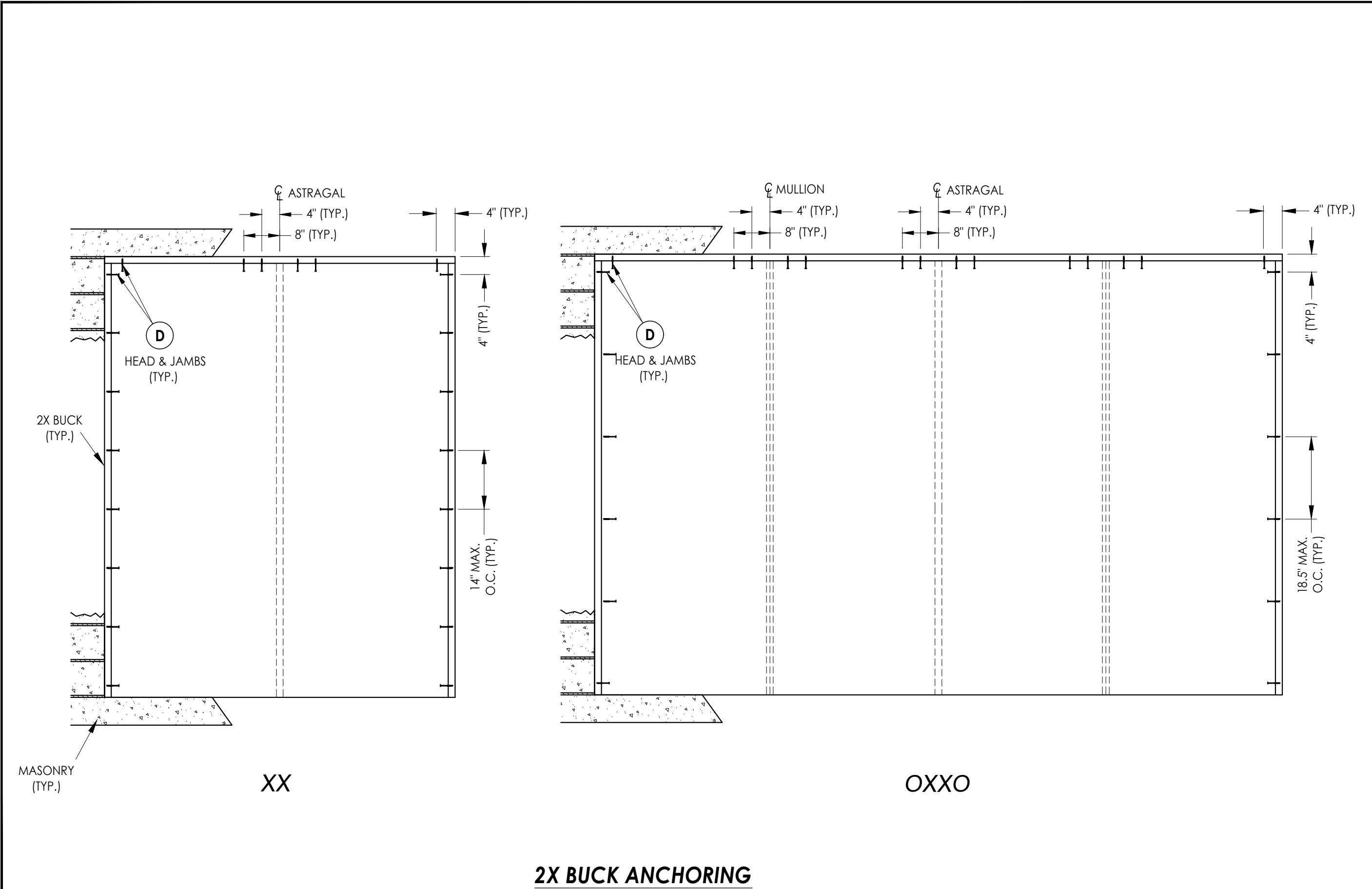
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/15/20	UPDATE TO 7th ED (2020) FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING LFS

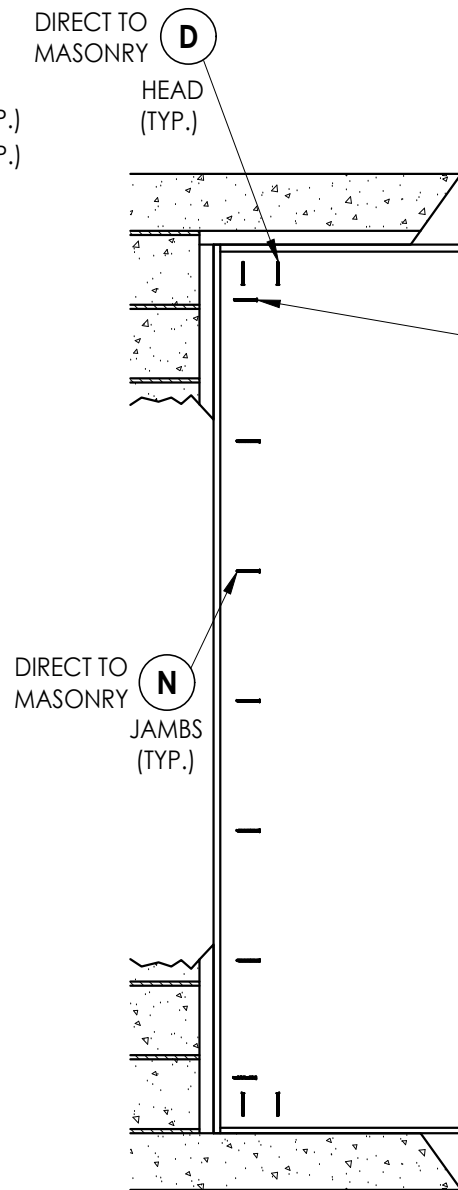
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SCALE: N.T.S.
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CHK. BY: LFS
DRAWING NO.: FL-21142.6
SHEET 8 OF 14

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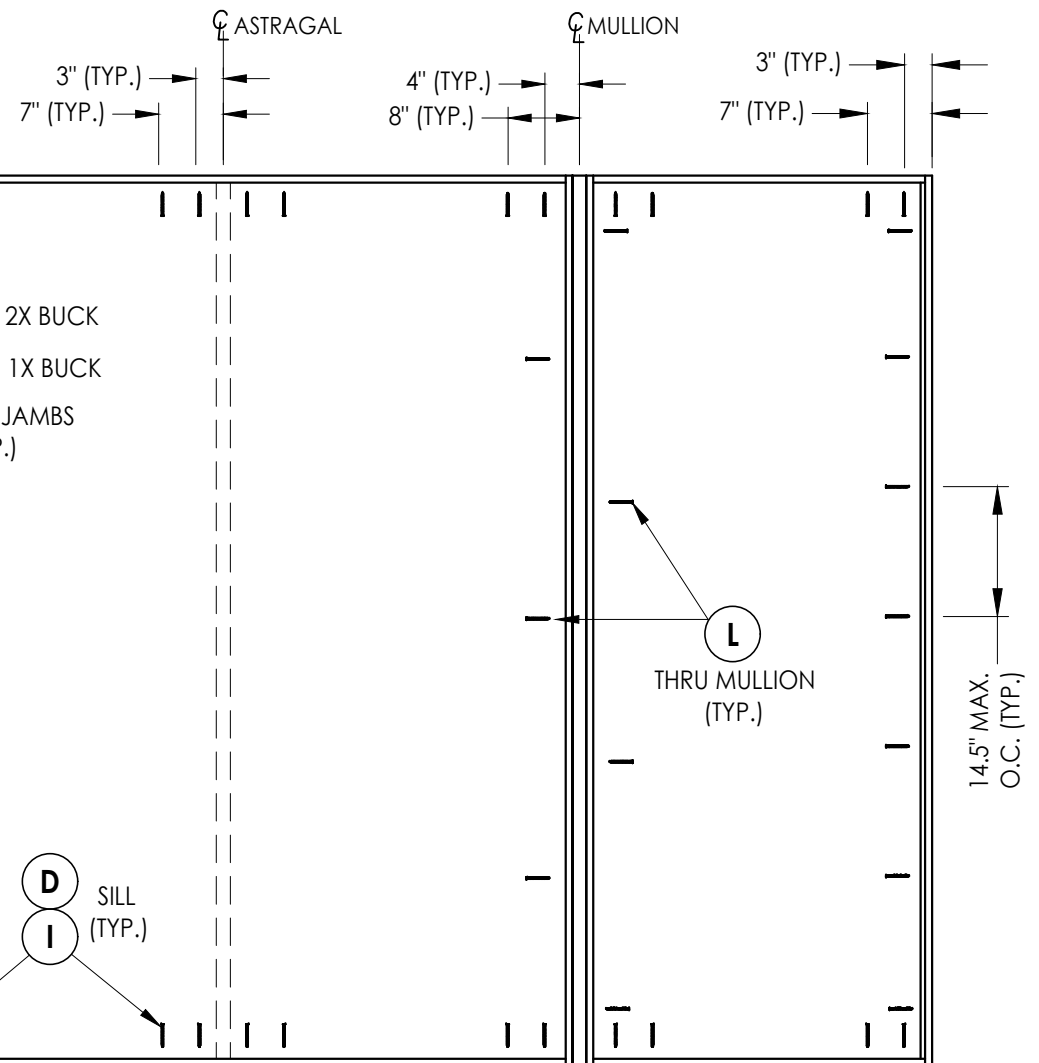


2X BUCK ANCHORING

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	
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC
2	7/15/20	UPDATE TO 7th ED (2020)	FBC
1	4/06/19	ADD 5-1/2" LATCH/DB	SPACING
NO.	DATE		BY
REVISIONS			
DATE: 12/22/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21142.6			
SHEET 9 OF 14			



FRAME ANCHORING



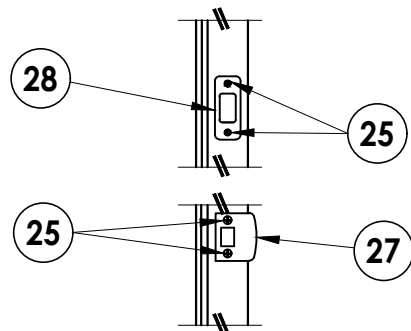
Documents Prepared By:
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FIBERGLASS DOOR

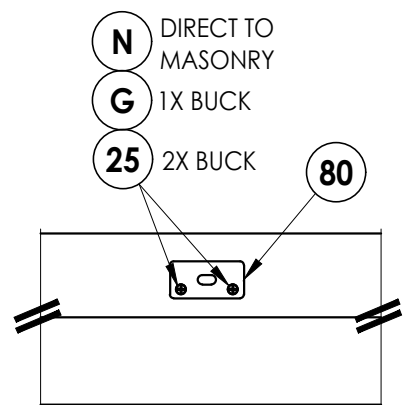
PART OR ASSEMBLY:
FRAME ANCHORING

									LFS
3	8/18/23	UPDATE TO 8TH ED. (2023)	FBC						P0
2	7/15/20	UPDATE TO 7th ED (2020)	FBC						LFS
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING							BY
NO.	DATE								
REVISIONS									
DATE: 12/22/16									
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-21142.6									
SHEET 10 OF 14									

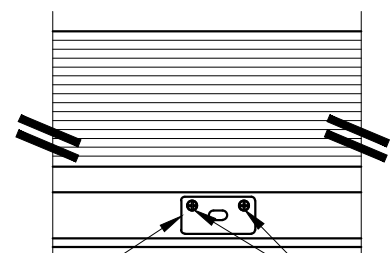


LATCH & DEADBOLT DETAIL

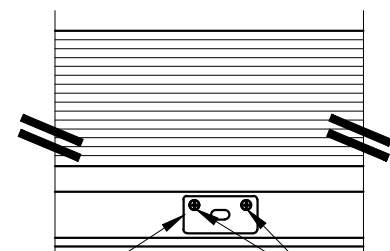
Schlage / Kwikset



DETAIL 1
Astragal Strike Plate @ Head

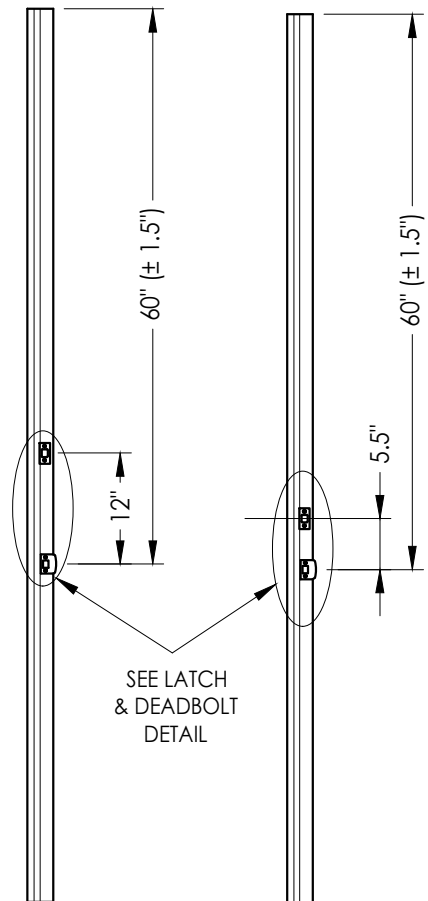


80 **DETAIL 2** **G**
Inswing
Coastal Astragal Strike Plate @ Sill

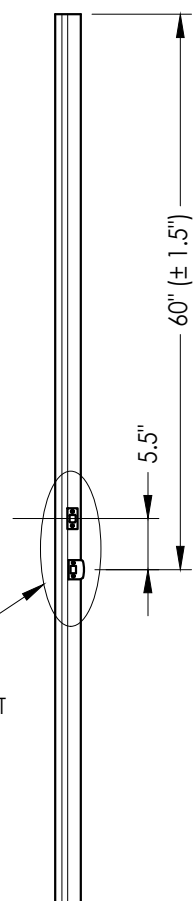


80 **DETAIL 2** **G**
Inswing
Coastal Astragal Strike Plate @ Sill

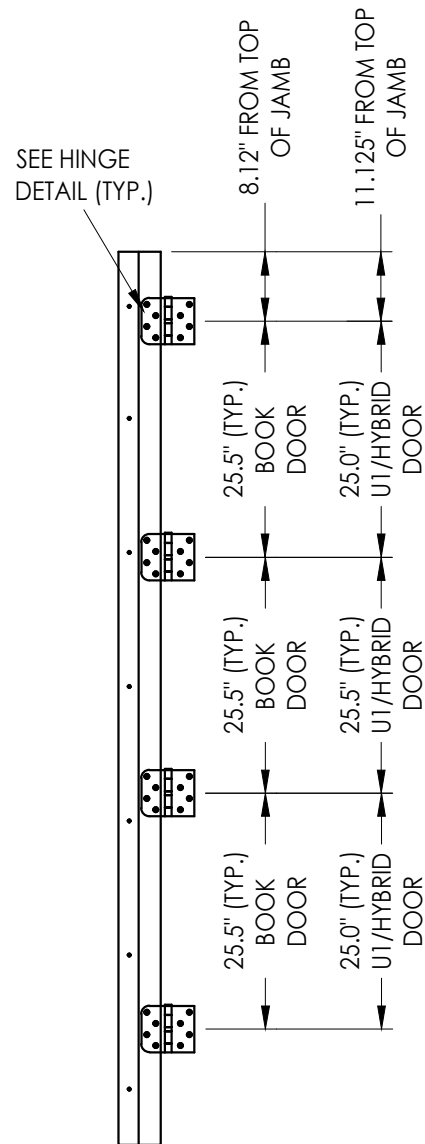
LATCH & DEADBOLT STRIKE DETAILS



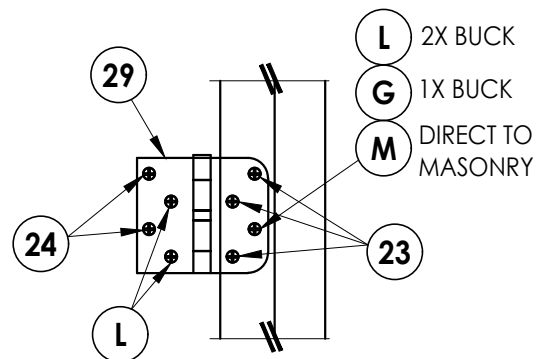
ASTRAGAL
Latch & Deadbolt
(12" o.c. spacing)



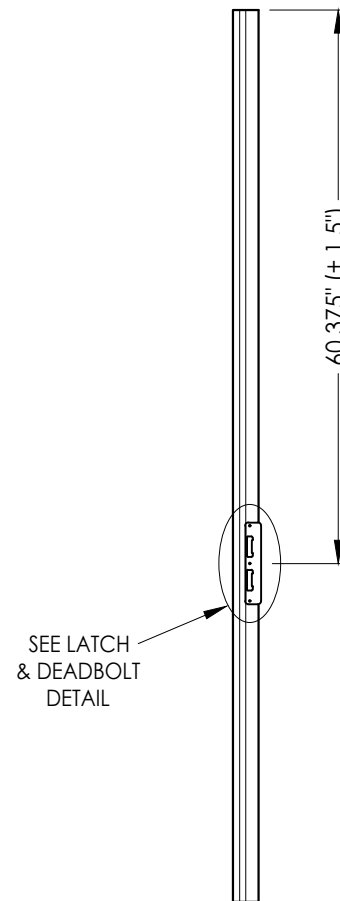
ASTRAGAL
Latch & Deadbolt
(5-1/2" o.c. spacing)



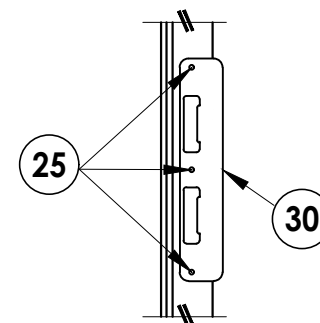
HINGE JAMB



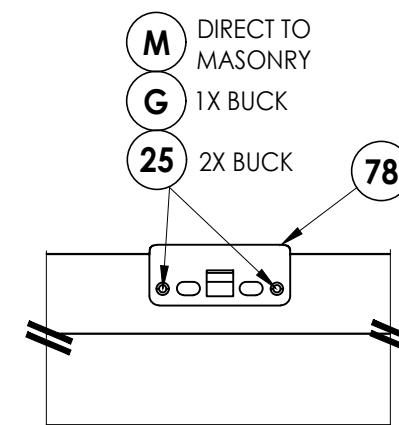
HINGE DETAIL



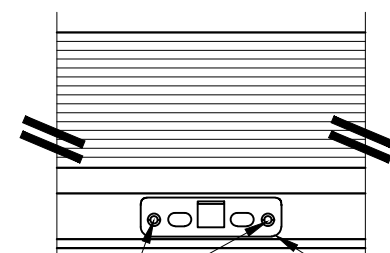
ASTRAL
Multipoint Lock



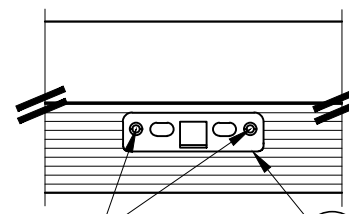
LATCH & DEADBOLT DETAIL



DETAIL 1
Multipoint Lock Strike Plate @ Head



G **DETAIL 2**
Inswing
Multipoint Lock Strike Plate @ Sill



G **DETAIL 2** **79**
Outswing
Multipoint Lock Strike Plate @ Sill

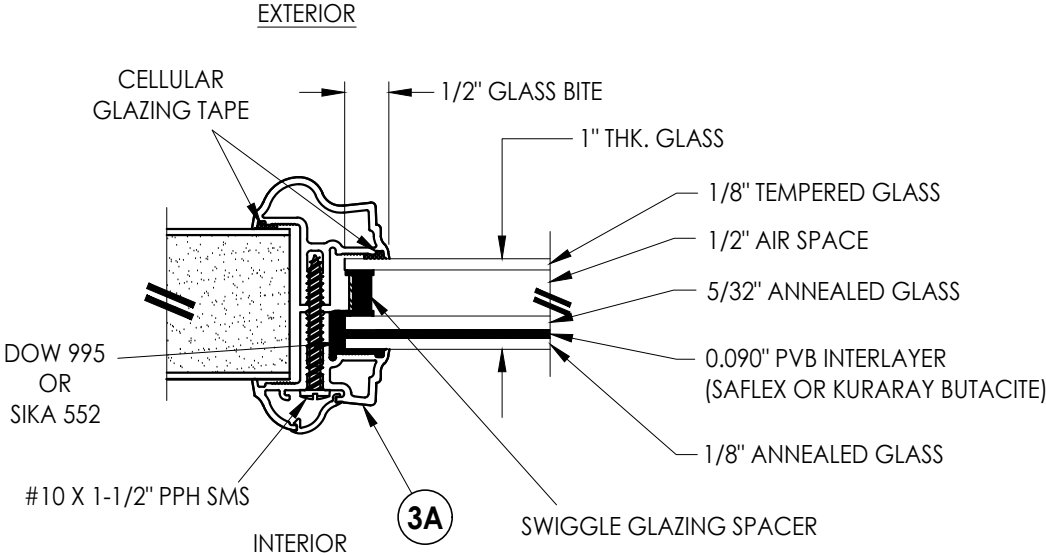
MULTIPOINT LOCK STRIKE DETAILS

[illegible]

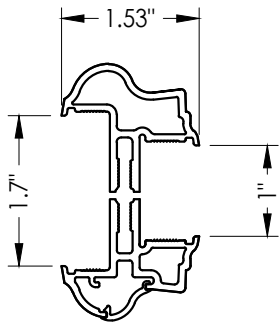
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

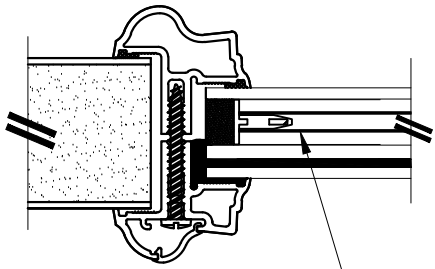
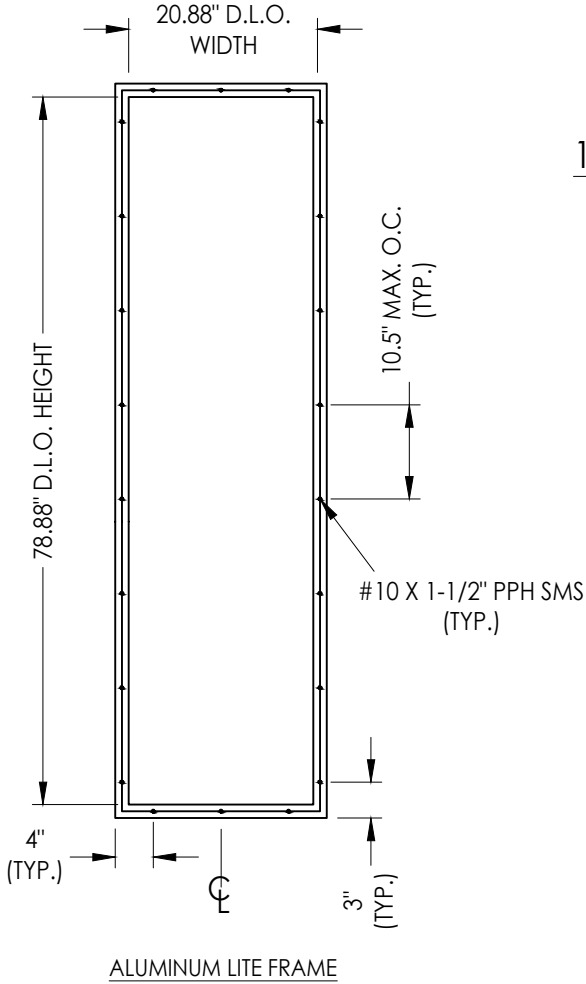
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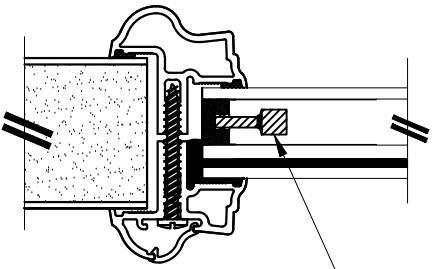
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



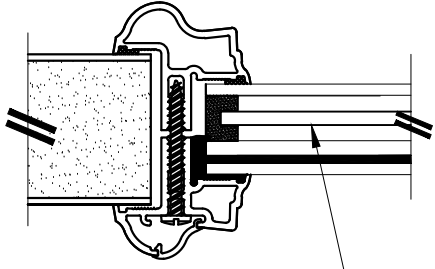
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



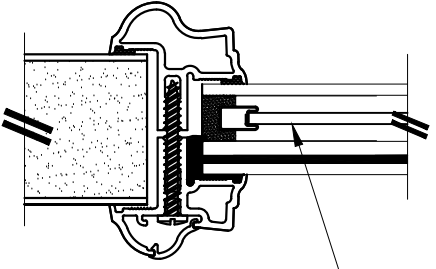
INTERNAL GRID (GBG)



WROUGHT IRON INSERT



PRIVACY INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

GLAZING DETAILS

NO.	DATE	REVISIONS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/15/20	UPDATE TO 7th ED (2020) FBC PO
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING LFS
		BY

DATE: 12/22/16

SCALE: N.T.S.

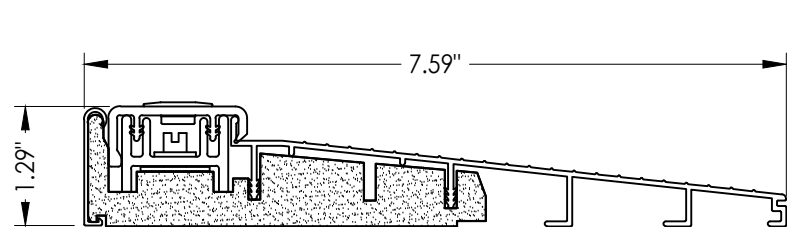
DWG. BY: JK

CHK. BY: LFS

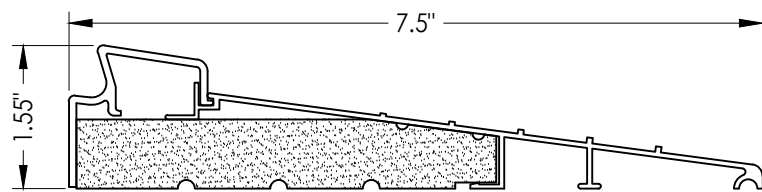
DRAWING NO.:
FL-21142.6

SHEET 12 OF 14

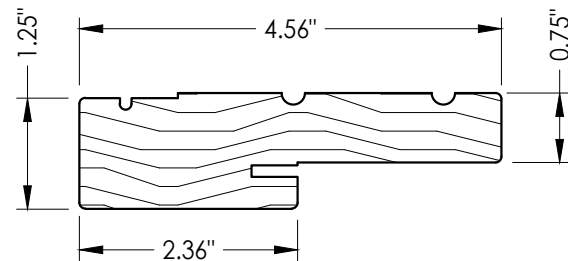
G:\2023 FBC DRAWINGS\Therma-Tru\FL-21142 R3\FL-21142.4-6.dwg



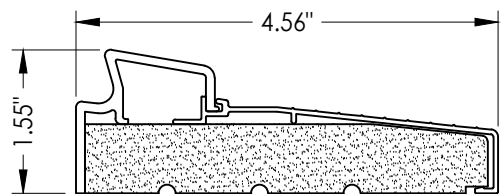
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



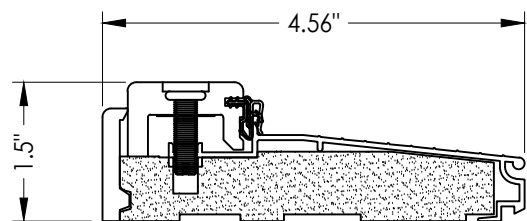
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



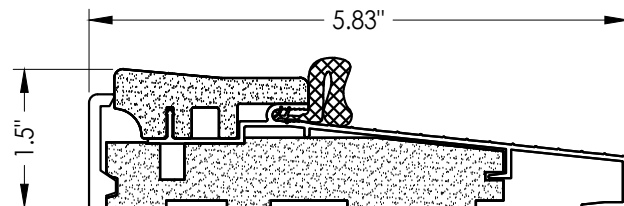
1 WOOD JAMB



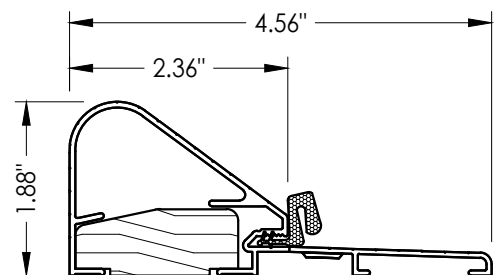
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



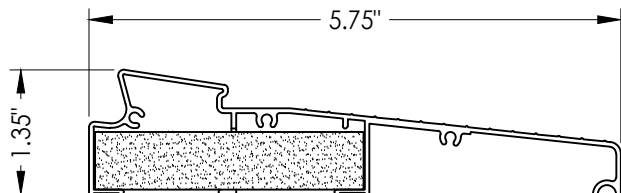
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



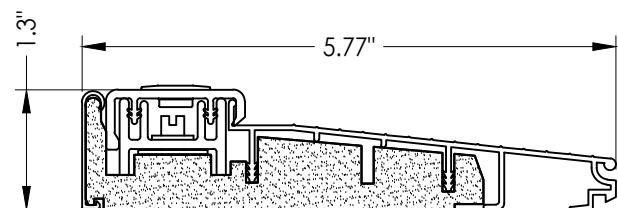
16 OUTSWING THRESHOLD
Composite Sill



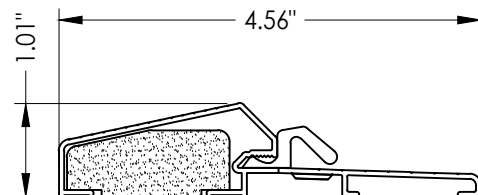
19 COASTAL OUTSWING THRESHOLD
Wood / Aluminum Sill



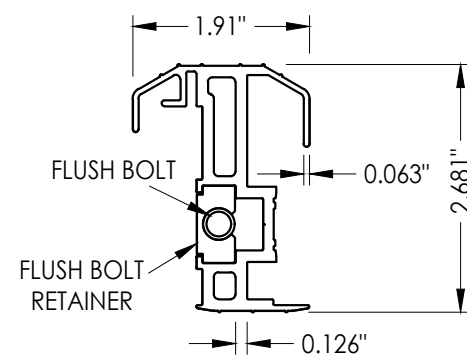
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



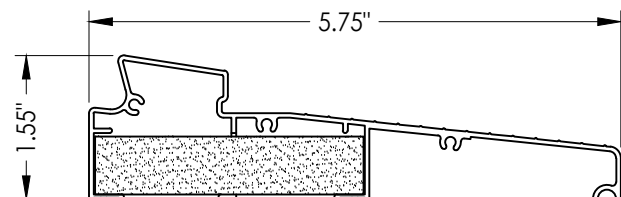
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



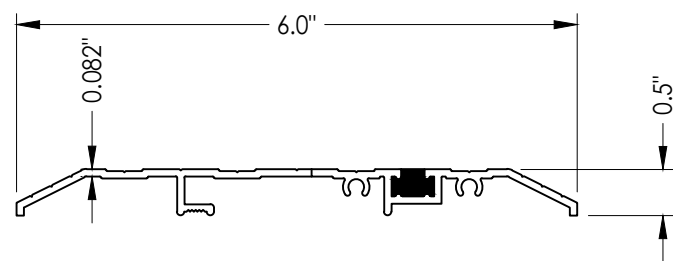
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



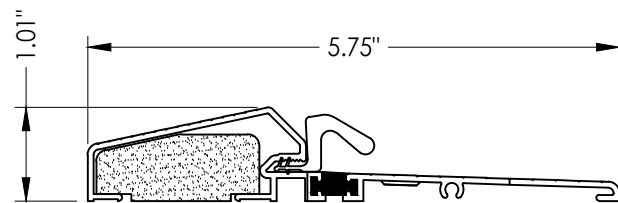
20 COASTAL ALUMINUM ASTRAGAL



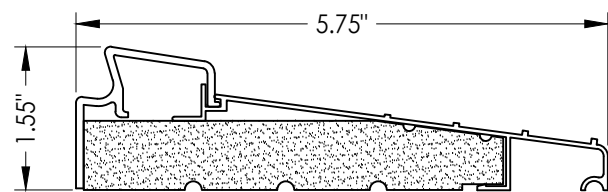
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



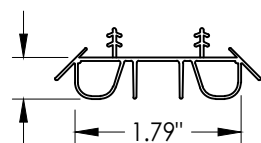
15 PUBLIC ACCESS THRESHOLD



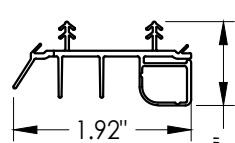
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



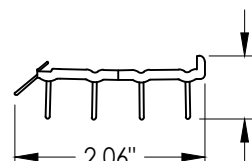
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



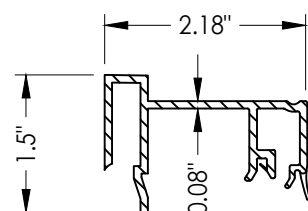
8 SWEEP



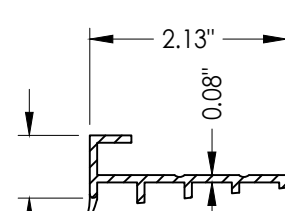
9 SWEEP



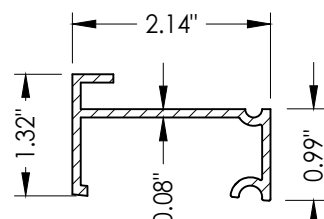
10 SWEEP



75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold

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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS
3	8/18/23	UPDATE TO 8TH ED. (2023) FBC
2	7/15/20	UPDATE TO 7th ED (2020) FBC
1	4/06/19	ADD 5-1/2" LATCH/DB SPACING

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21142.6

SHEET 13 OF 14

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	29	4" X 4" HINGE	STEEL
			32	INSWING THRESHOLD	ALUM/COMP
F	#10 X 2" PFH WOOD SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	34	INSWING THRESHOLD	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	35	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	36	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	37	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	38	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	39	INSWING THRESHOLD	ALUM/COMP
P	1/4" X 2-3/4" PFH DeWALT CONCRETE SCREW	STEEL	40	DOOR PANEL (BOOK)	-
1	JAMB (FINGER JOINT PINE)	WOOD	41	DOOR PANEL (HYBRID)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	42	DOOR PANEL (U1)	-
7	WEATHERSTRIP (LONG REACH)	FOAM	50	SIDELITE (FULL LITE)	-
8	SWEEP	VINYL	75	SIDELITE SPACER (INSWING)	PVC
9	SWEEP (USE W/ MODERATE CLIMATE THRESHOLD)	VINYL	76	SIDELITE SPACER (OUTSWING)	PVC
10	SWEEP (USE W/ PUBLIC ACCESS THRESHOLD)	VINYL	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
11	#10 X 1-3/4" PFH WOOD SCREW	STEEL	78	MULTIPOINT LOCK STRIKE PLATE @ HEAD	STEEL
15	PUBLIC ACCESS THRESHOLD	ALUM	79	MULTIPOINT LOCK STRIKE PLATE @ SILL	STEEL
16	OUTSWING THRESHOLD	ALUM/COMP	80	ASTRAGAL STRIKE PLATE	STEEL
17	OUTSWING THRESHOLD	ALUM/COMP	88	2X MULLION (SG >= 0.55)	WOOD
18	OUTSWING THRESHOLD	ALUM/COMP	CONCRETE ANCHOR NOTES:		
19	COASTAL OUTSWING THRESHOLD	ALUM/WOOD			
20	COASTAL ALUMINUM ASTRAGAL	ALUM			
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]