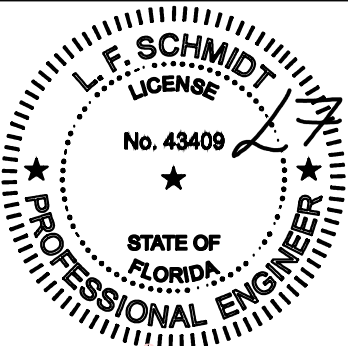
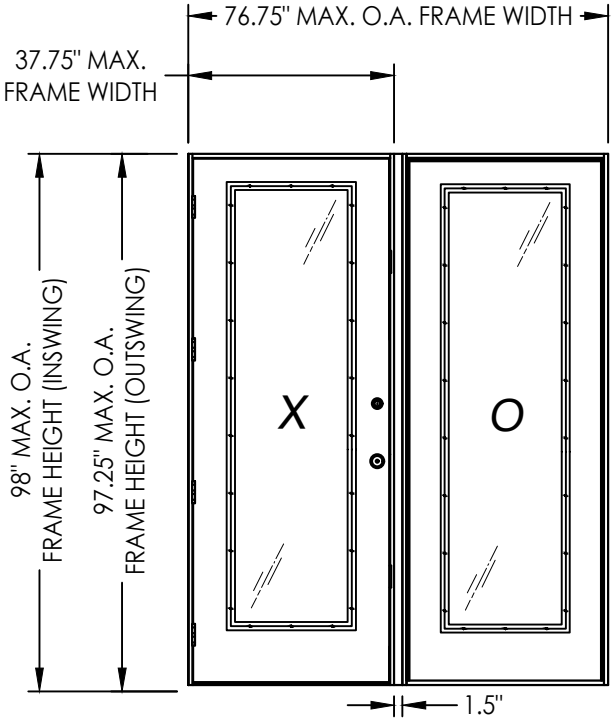


WOOD EDGE
GLAZED FIBERGLASS SINGLE DOOR
w/ SIDELITE(S)
INSWING/OUTSWING
"IMPACT"



Digitally signed by Lyndon F Schmidt
Date: 2023.07.17 15:54:58 -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

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

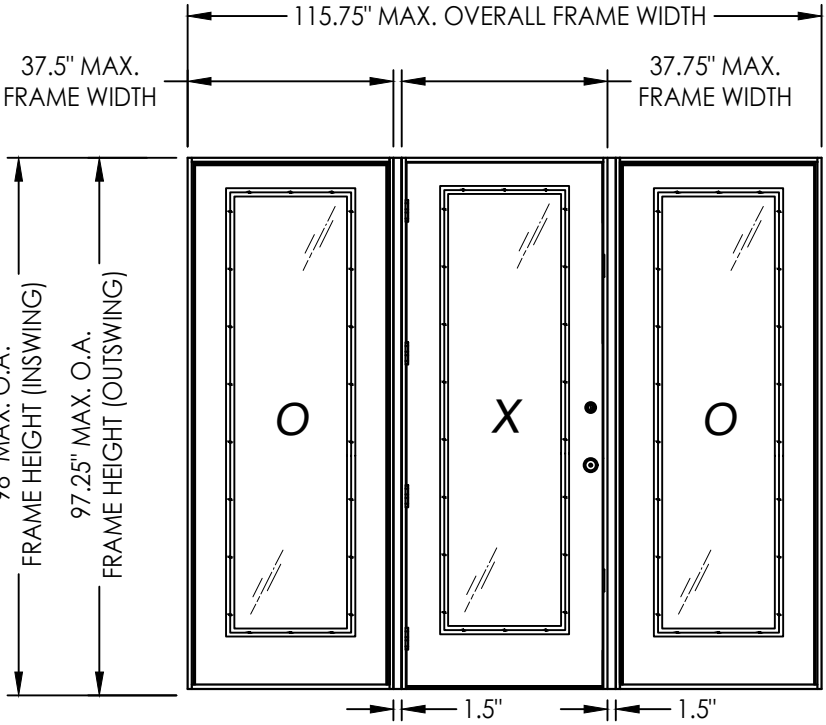
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) Florida Building Code (FBC) including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using Sill numbers 17 & 18 meet the water infiltration requirements for the "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.



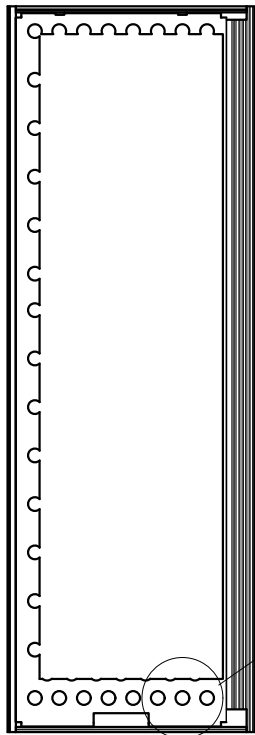
CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+50.0	-50.0	+50.0	-50.0

See Sheet 4 for Hardware Specifications

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

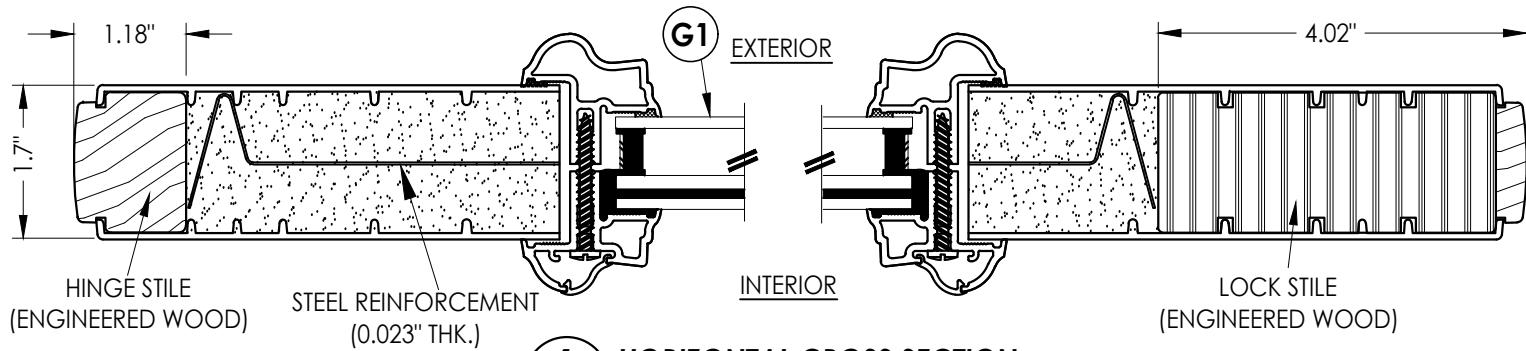
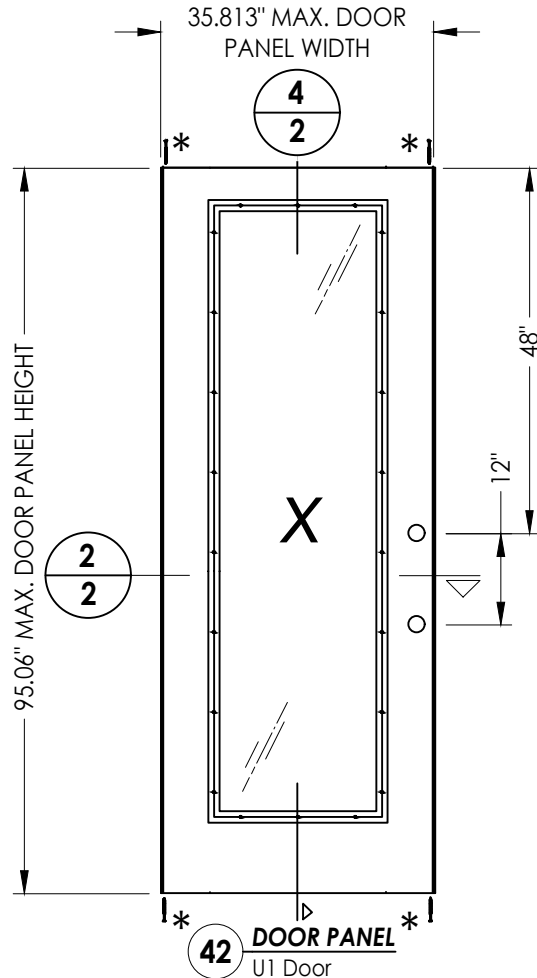
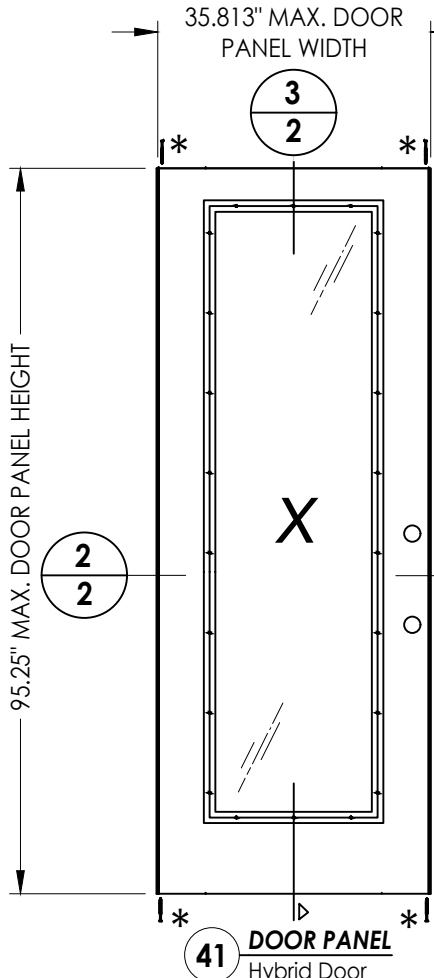
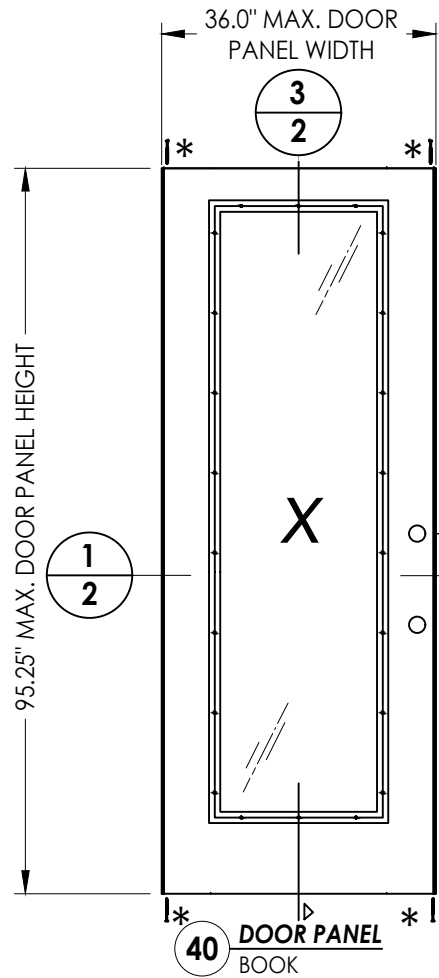
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		DATE	BY	DESCRIPTION	
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2	7/14/20	UPDATE TO 7th ED (2020)	FBC		
1	7/17/17	UPDATE TO 6TH ED. (2017)	FBC		
DATE: 4/28/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-13459.8					
SHEET 1 OF 15					

Z:\2023 FBC Drawings\Therma-Tru\FL-13459 R7\FL-13459.5-8.dwg

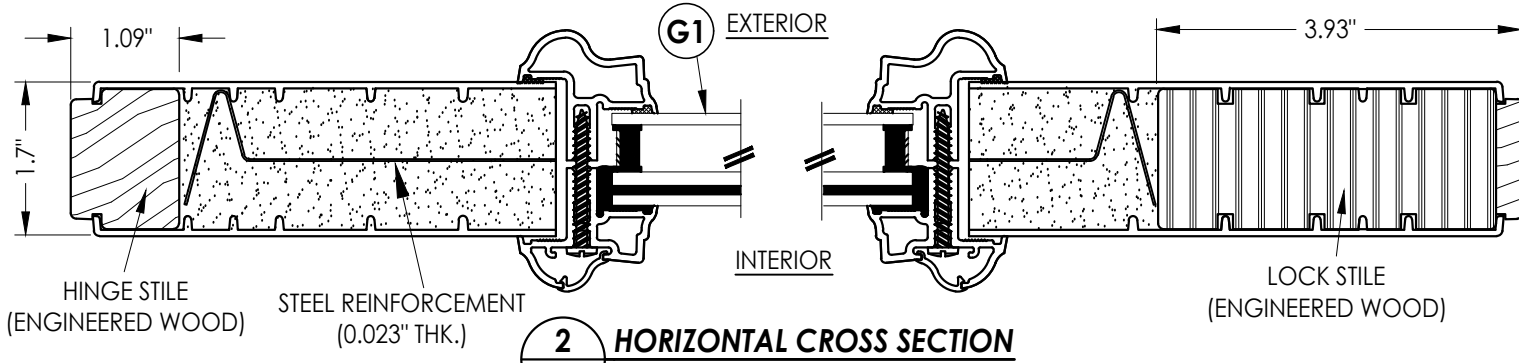


DETAIL A-A
PANEL REINFORCEMENT
(0.023\"/>

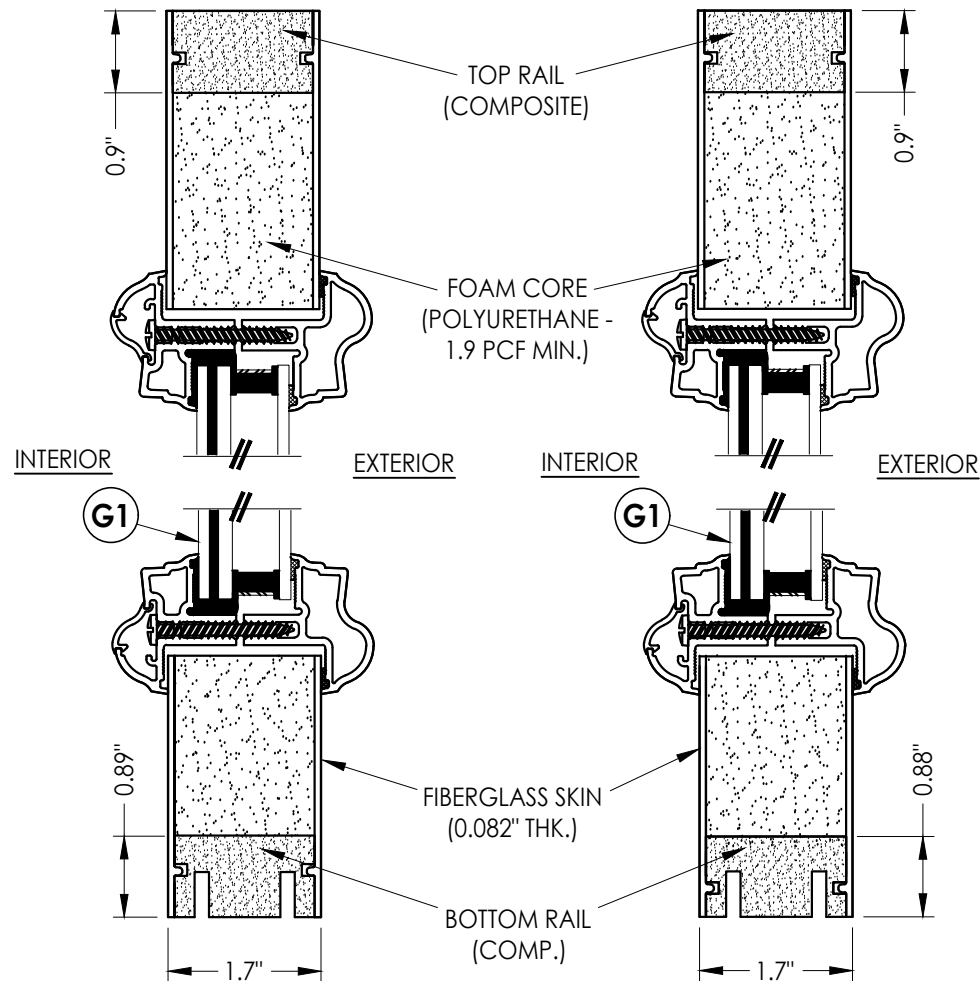
* #8 X 2.5\"/>



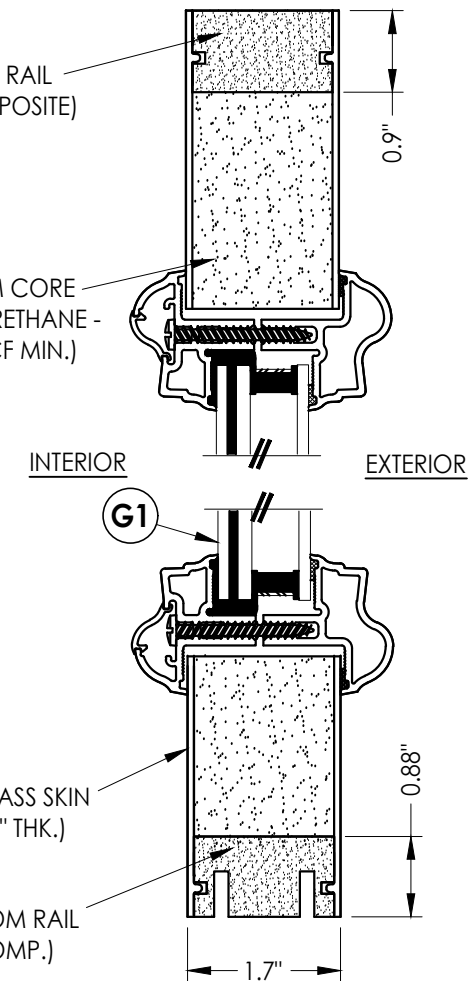
1
2 **HORIZONTAL CROSS SECTION**



2
2 **HORIZONTAL CROSS SECTION**



3
2 **VERTICAL CROSS SECTION**



4
2 **VERTICAL CROSS SECTION**

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

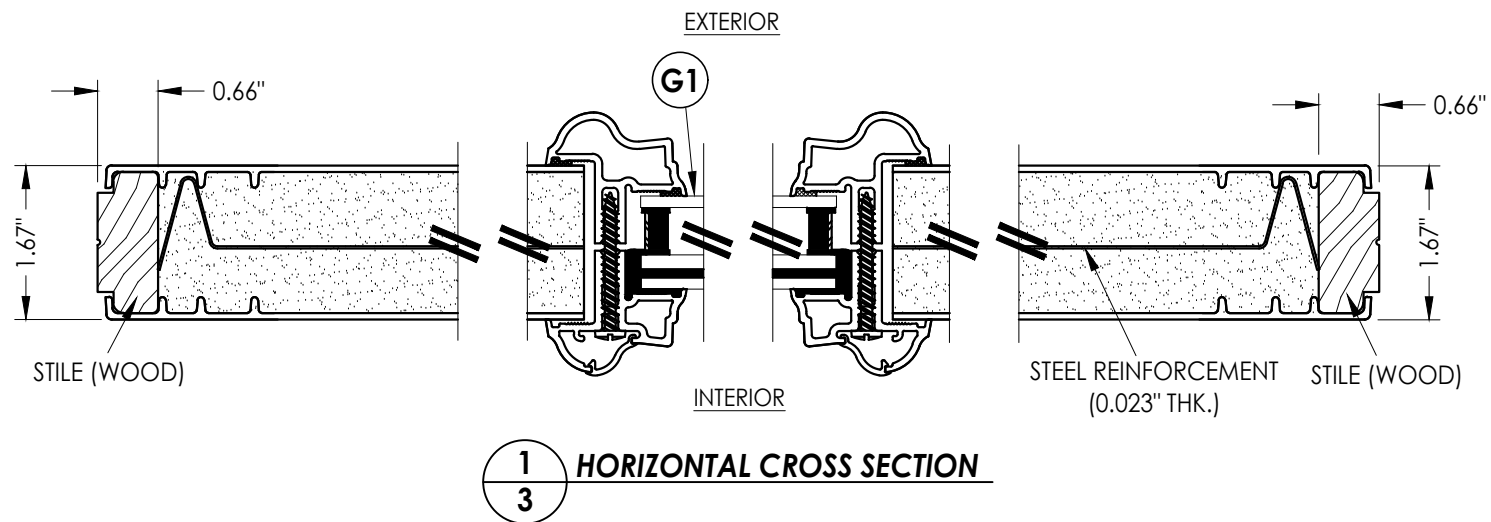
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

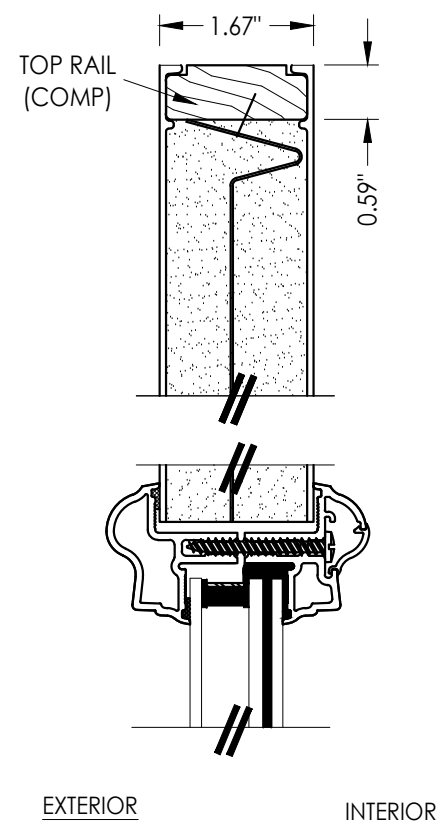
PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
3	7/10/23	UPDATE TO 8th ED (2023) FBC
2	7/14/20	UPDATE TO 7th ED (2020) FBC
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC
NO.	DATE	BY
DATE:	4/28/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-13459.8	
SHEET	2	OF 15

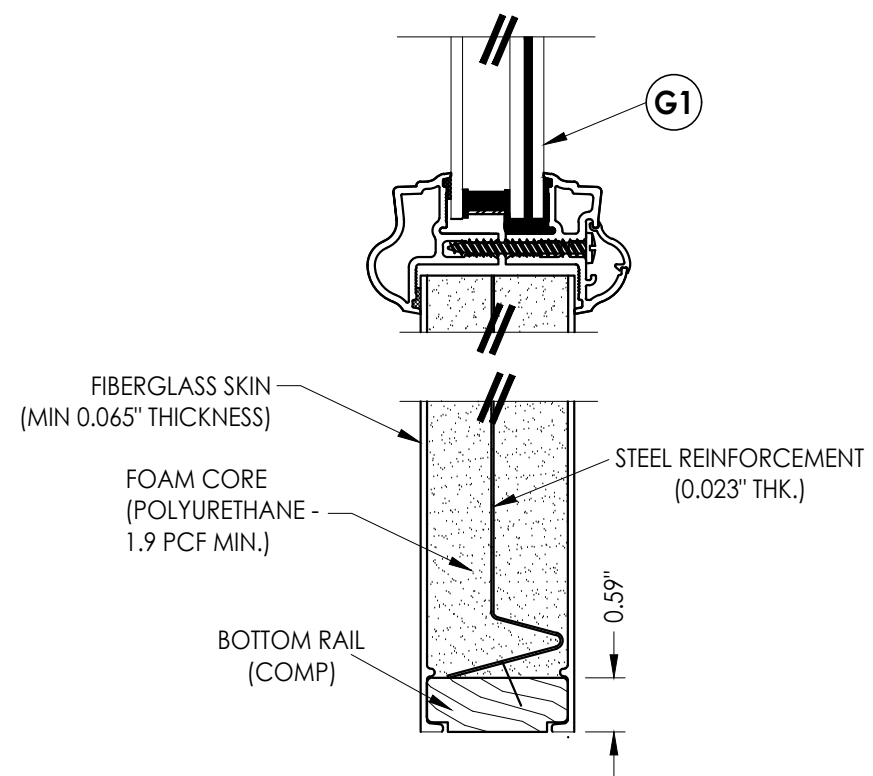
DETAIL A-A
PANEL REINFORCEMENT
(0.023" Thick Steel)



1 HORIZONTAL CROSS SECTION



2 VERTICAL CROSS SECTION

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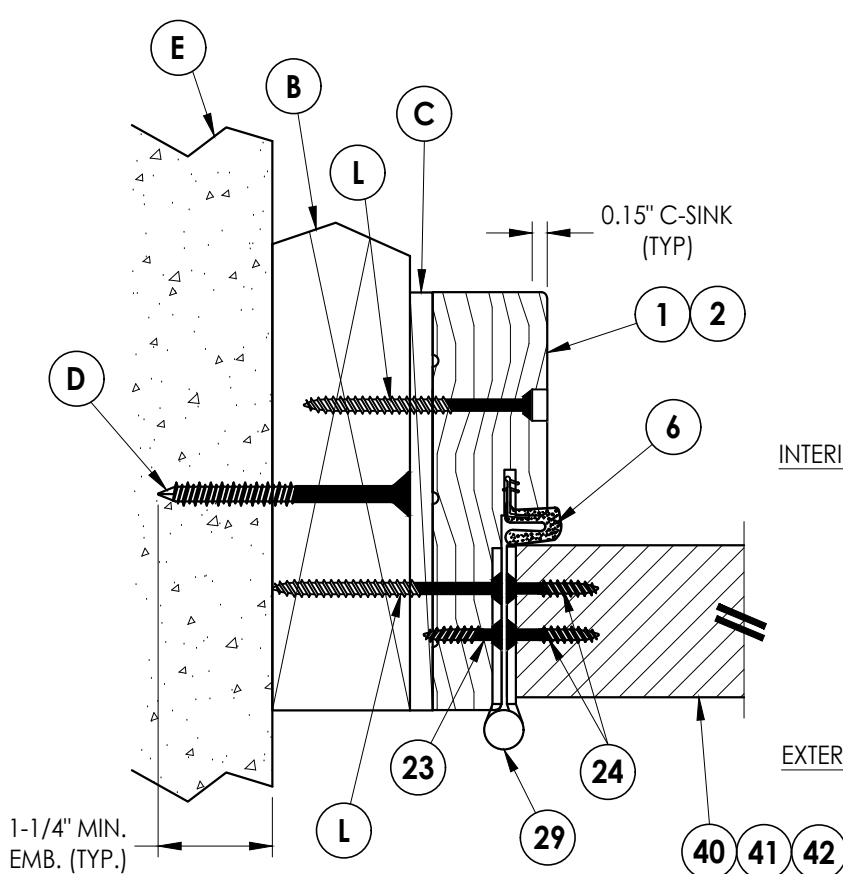
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

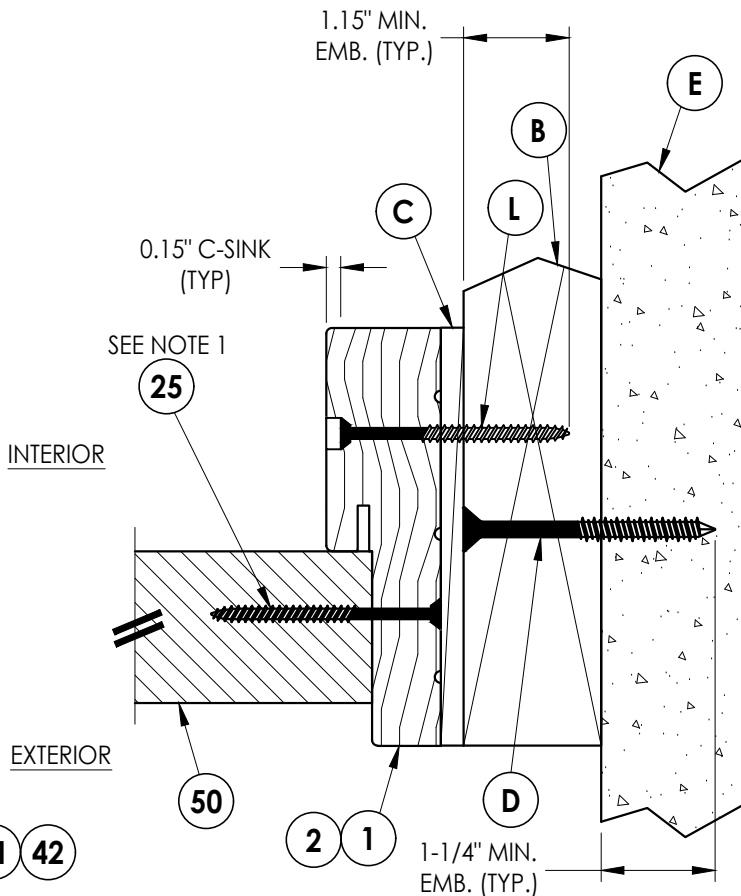
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Notes:

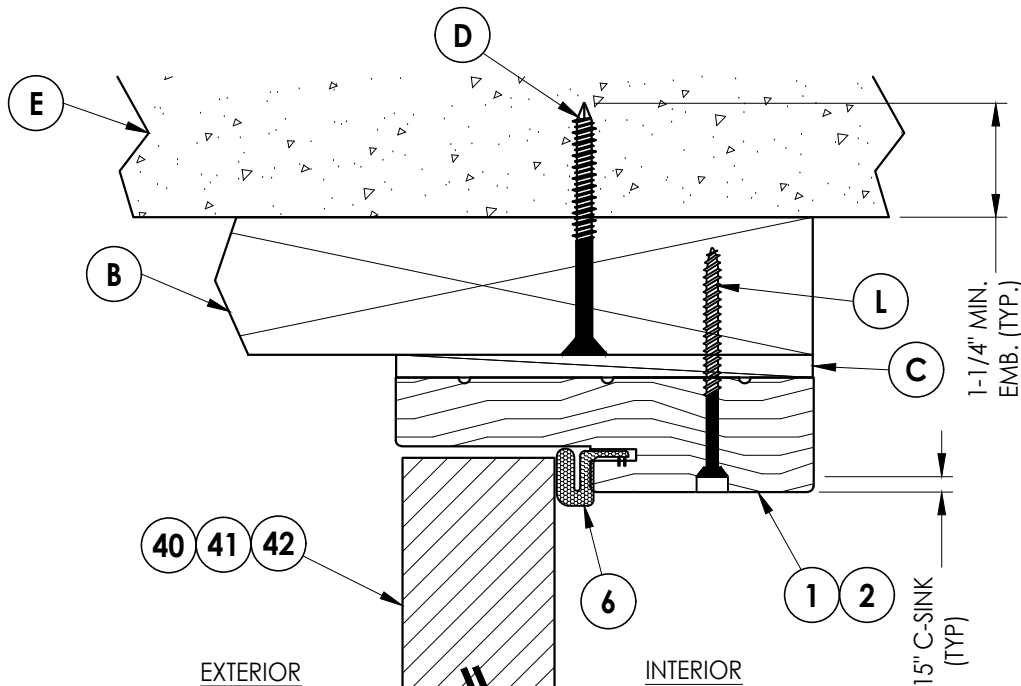
1. Sidelite assembly screws located 6" from top and bottom & 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 6" from each end and @ center line (3 screws total).



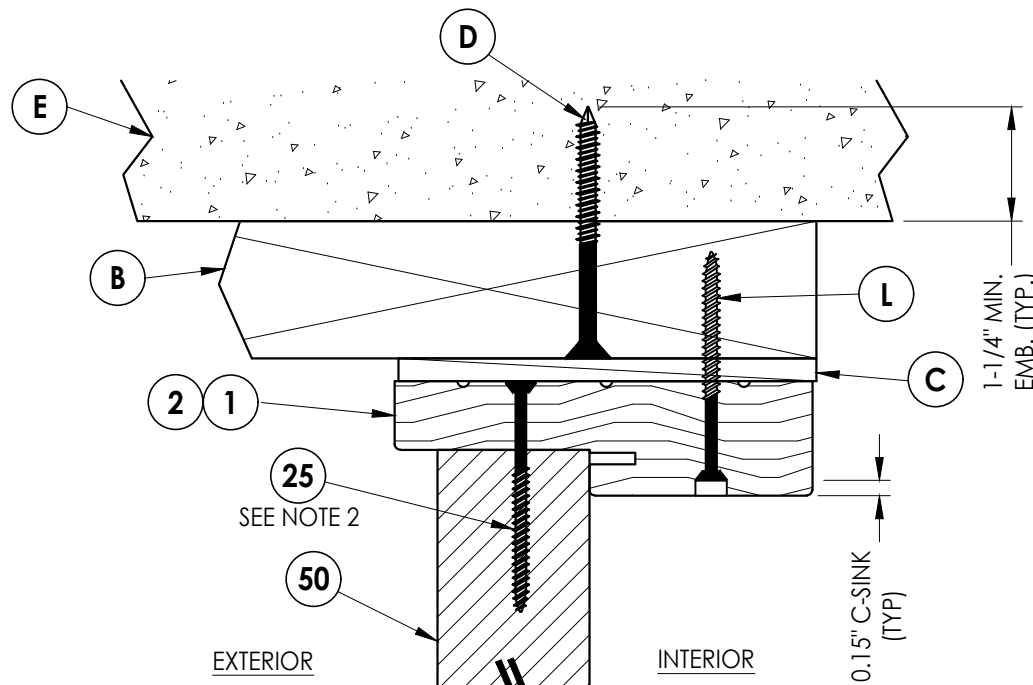
1
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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



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

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

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

PRODUCT: **THERMA-TRU
FIBERGLASS DOOR**
PART OR ASSEMBLY:
**HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)**

NO.	DATE	REVISIONS			
		BY	JK	LFS	FBC
3	7/10/23	UPDATE TO 8th ED (2023)	FBC	LFS	
2	7/14/20	UPDATE TO 7th ED (2020)	FBC	LFS	
1	7/17/17	UPDATE TO 6TH ED. (2017)	FBC	JK	

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13459.8

SHEET 5 OF 15

1. Sidelite assembly screws located 6" from top and bottom & 6 more screws equally spaced between (8 screws total per side jamb).



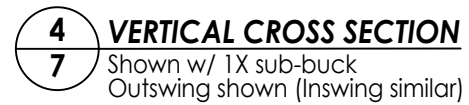
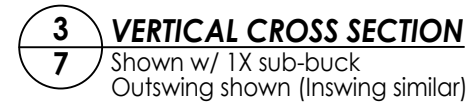
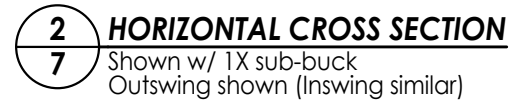
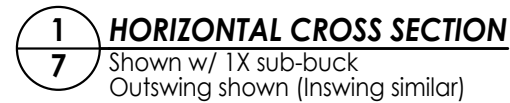
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

[illegible]

DATE:	4/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-13459.8
SHEET	6 OF 15

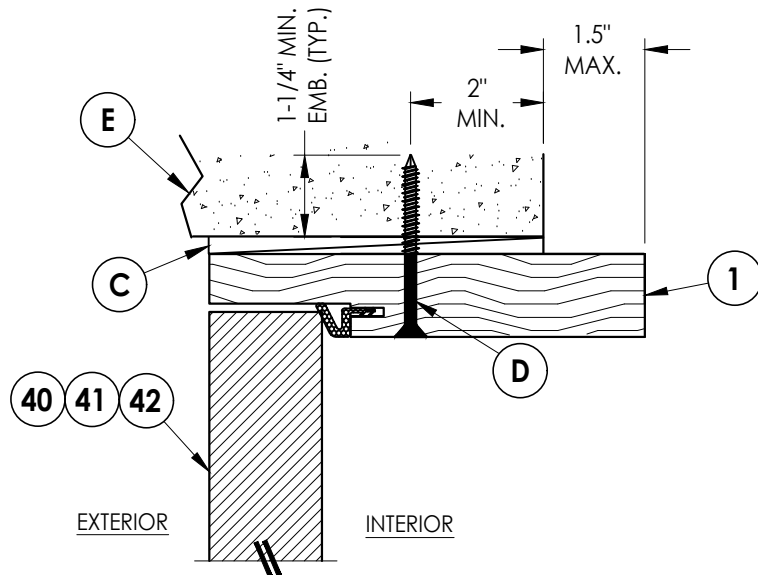
1. Sidelite assembly screws located 6" from top and bottom & 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 6" from each end and @ center line (3 screws total).

[illegible]

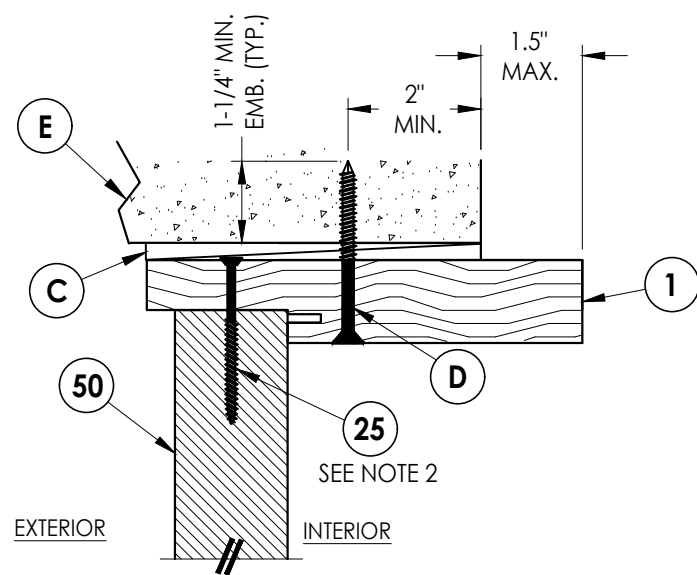
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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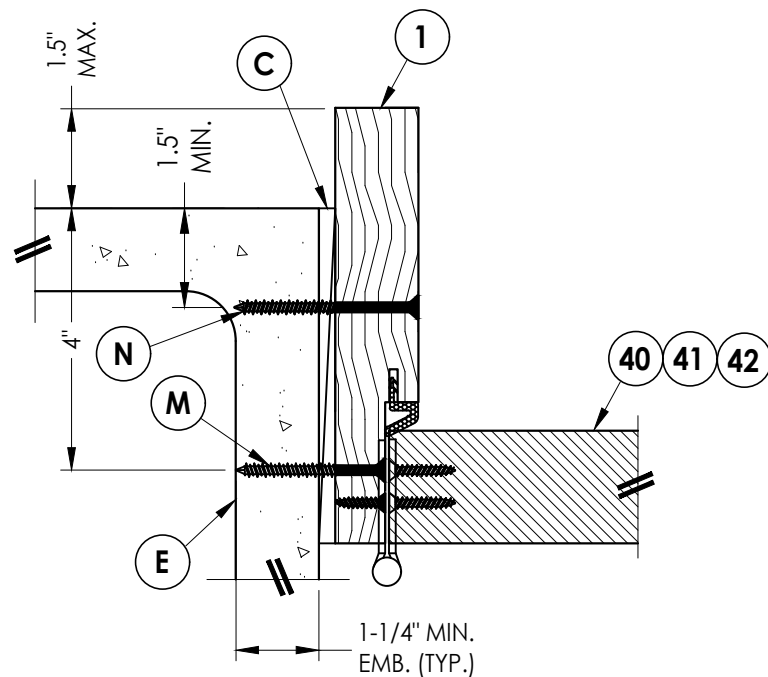
3 HORIZONTAL CROSS SECTION
8 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb



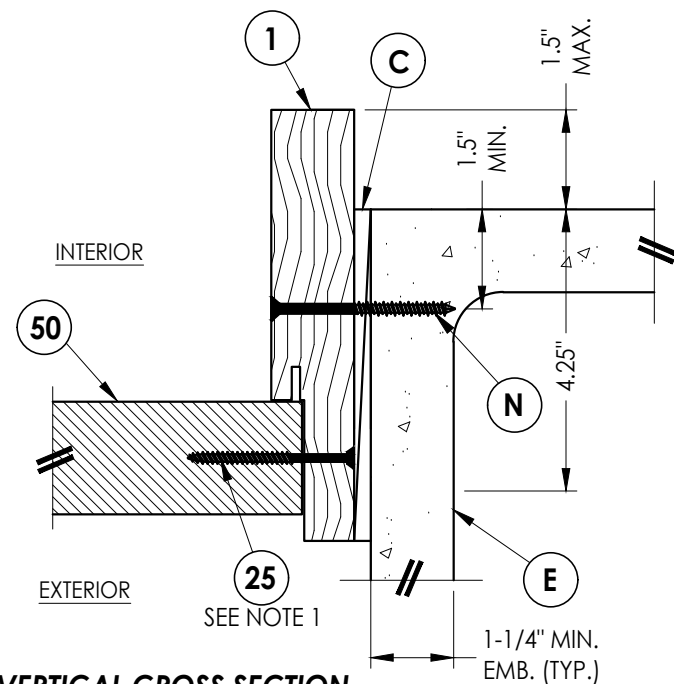
4 **VERTICAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

Notes:

1. Sidelite assembly screws located 6" from top and bottom & 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 6" from each end and @ center line (3 screws total).



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



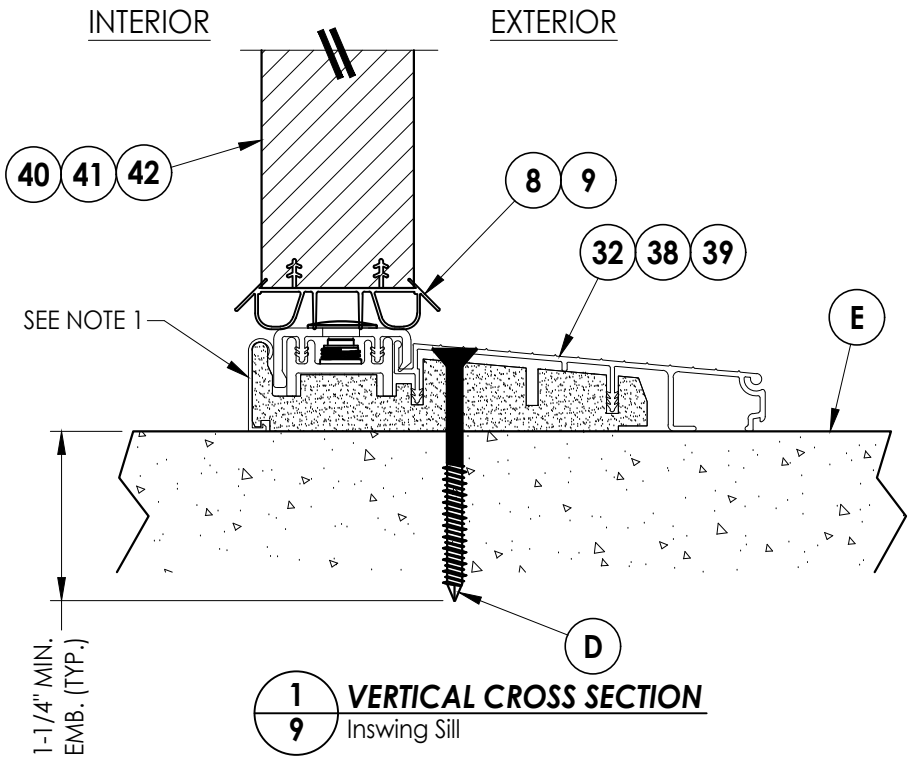
2 **VERTICAL CROSS SECTION**
8 Shown Direct to Masonry
 Outswing only w/ 6-9/16" jamb

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)

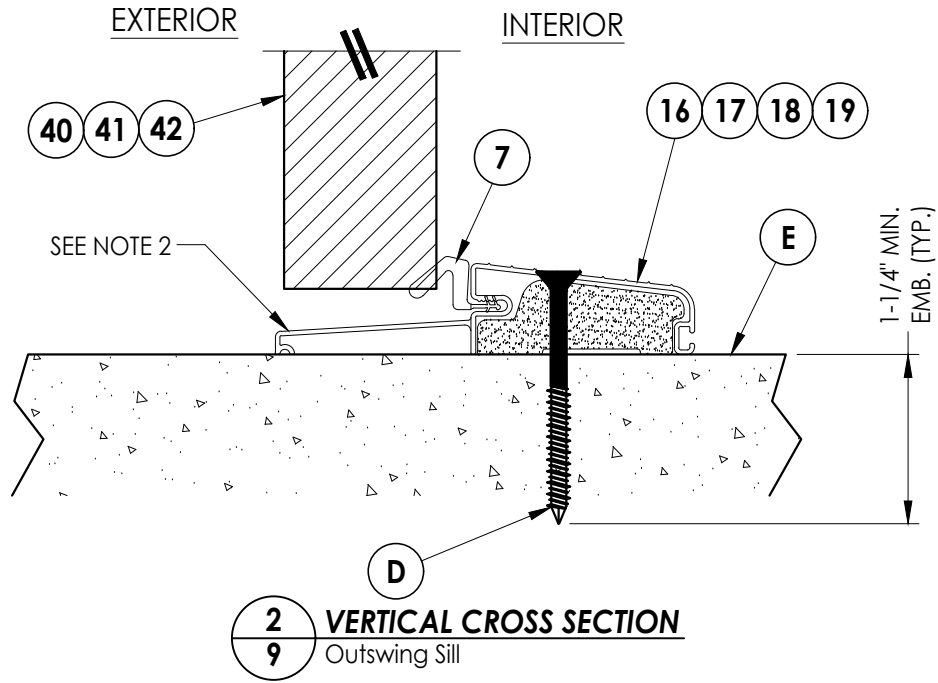
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Notes:

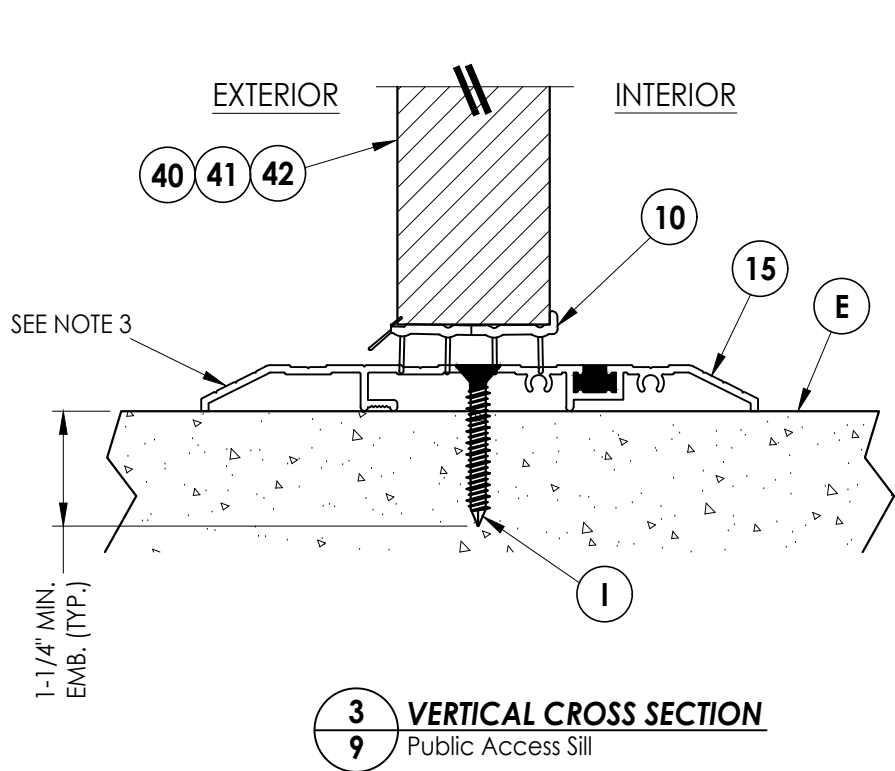
1. Sill Item #'s 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws or (3) 2.5" staples at each end.
2. Sill Item #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.
3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
4. Sidelite assembly screws located 4" from each end (2 screws along Sill).



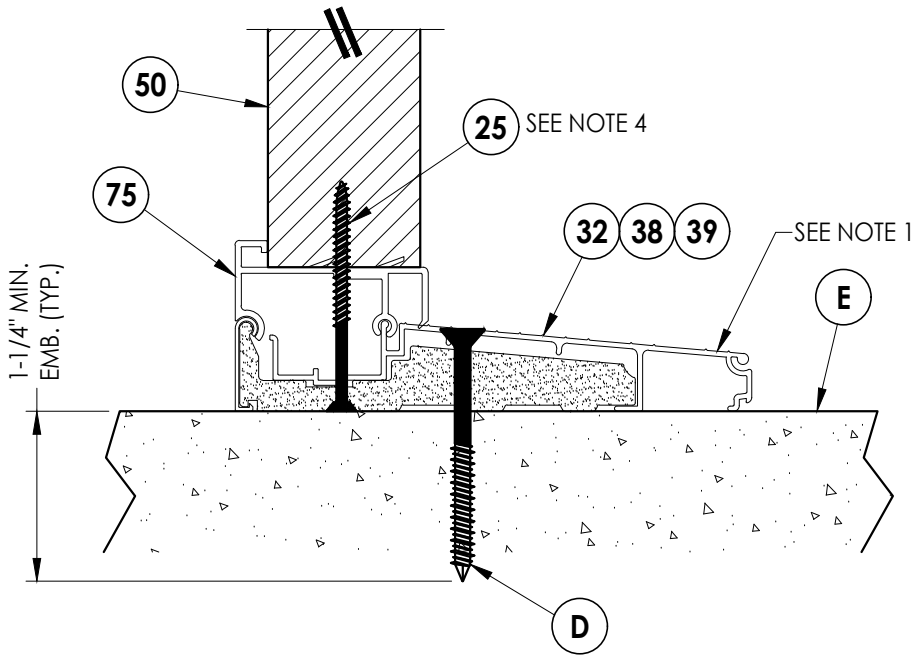
1
9 **VERTICAL CROSS SECTION**
Inswing Sill



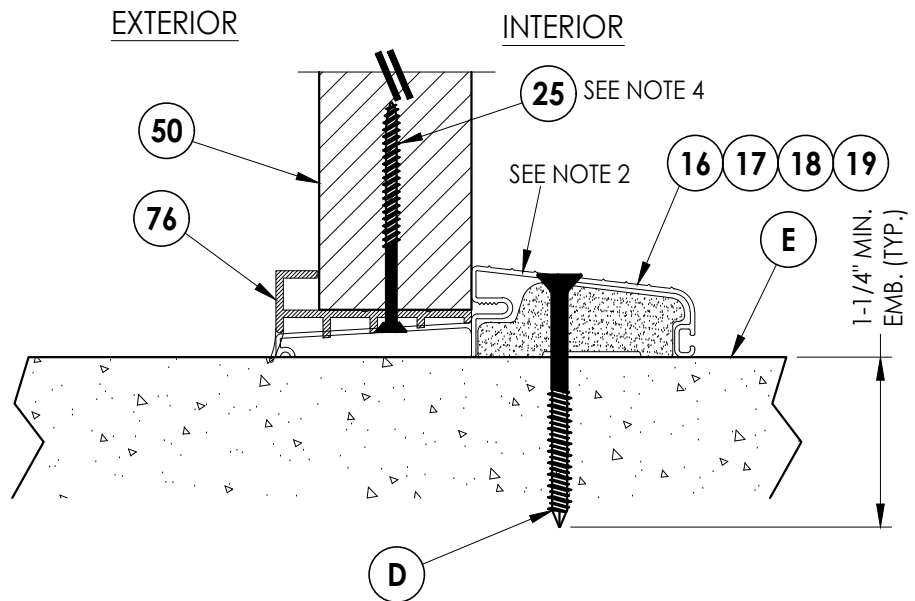
2
9 **VERTICAL CROSS SECTION**
Outswing Sill



3
9 **VERTICAL CROSS SECTION**
Public Access Sill



4
9 **VERTICAL CROSS SECTION**
Inswing Sill



5
9 **VERTICAL CROSS SECTION**
Outswing Sill

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:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
3	7/10/23	UPDATE TO 8th ED (2023) FBC LFS
2	7/14/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

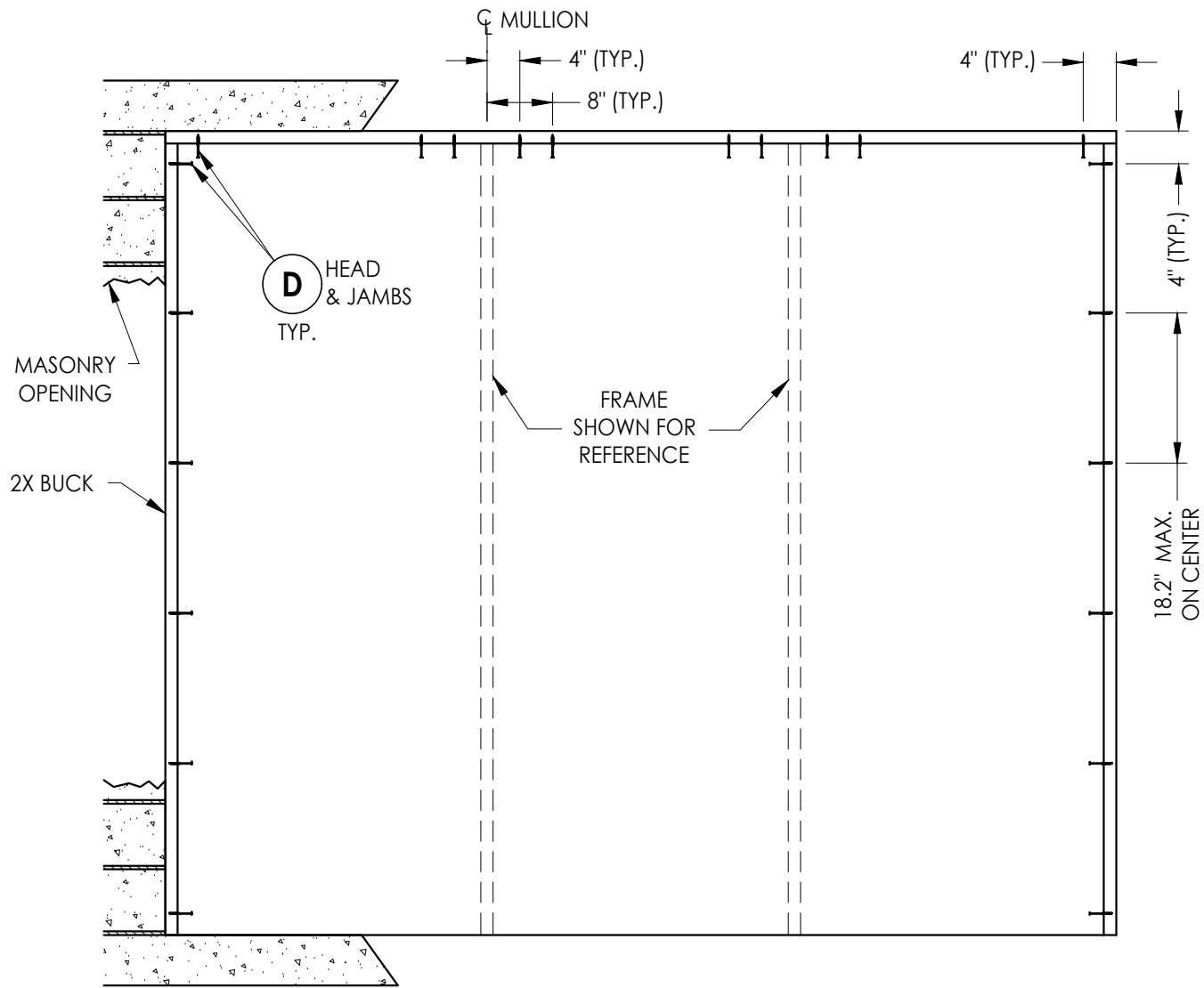
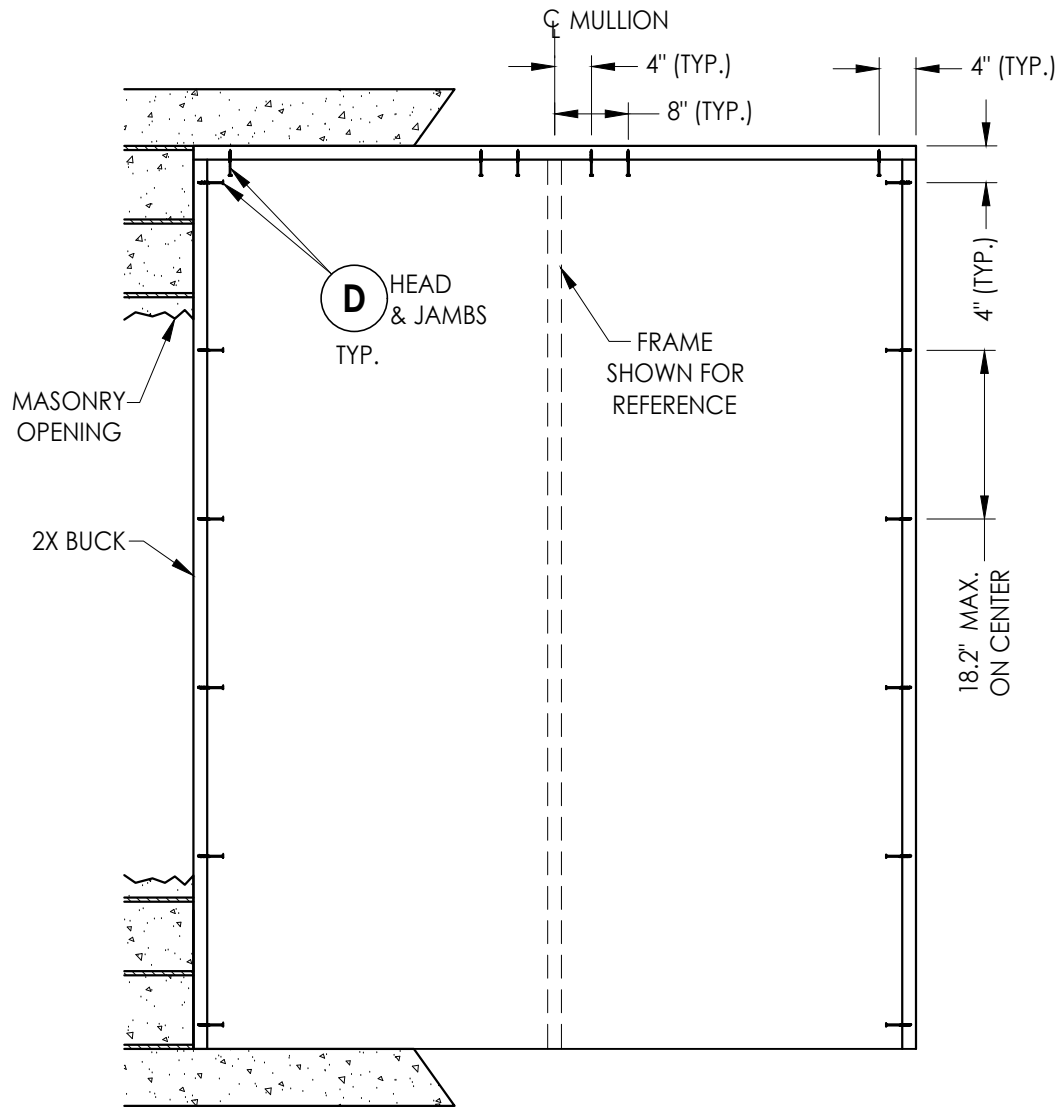
CHK. BY: LFS

DRAWING NO.:

FL-13459.8

SHEET 9 OF 15

Z:\2023 FBC Drawings\Therma-Tru\FL-13459 R7\FL-13459.5-8.dwg



2X BUCK ANCHORING

NO.	DATE	REVISIONS
3	7/10/23	UPDATE TO 8th ED (2023) FBC LFS
2	7/14/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC JK
		BY

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13459.8

SHEET 10 OF 15

PRODUCT:

THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

BUCK ANCHORING

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

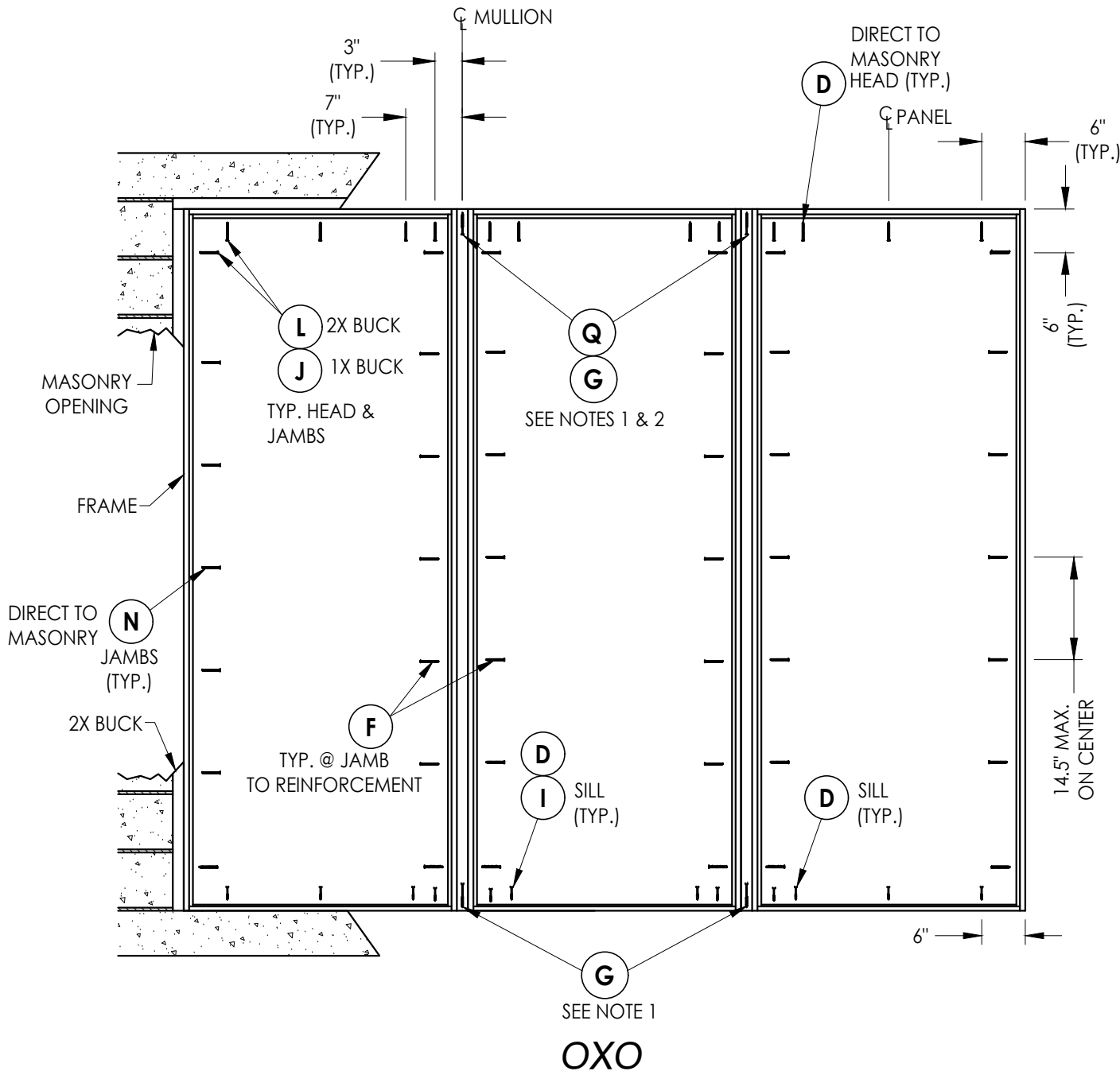
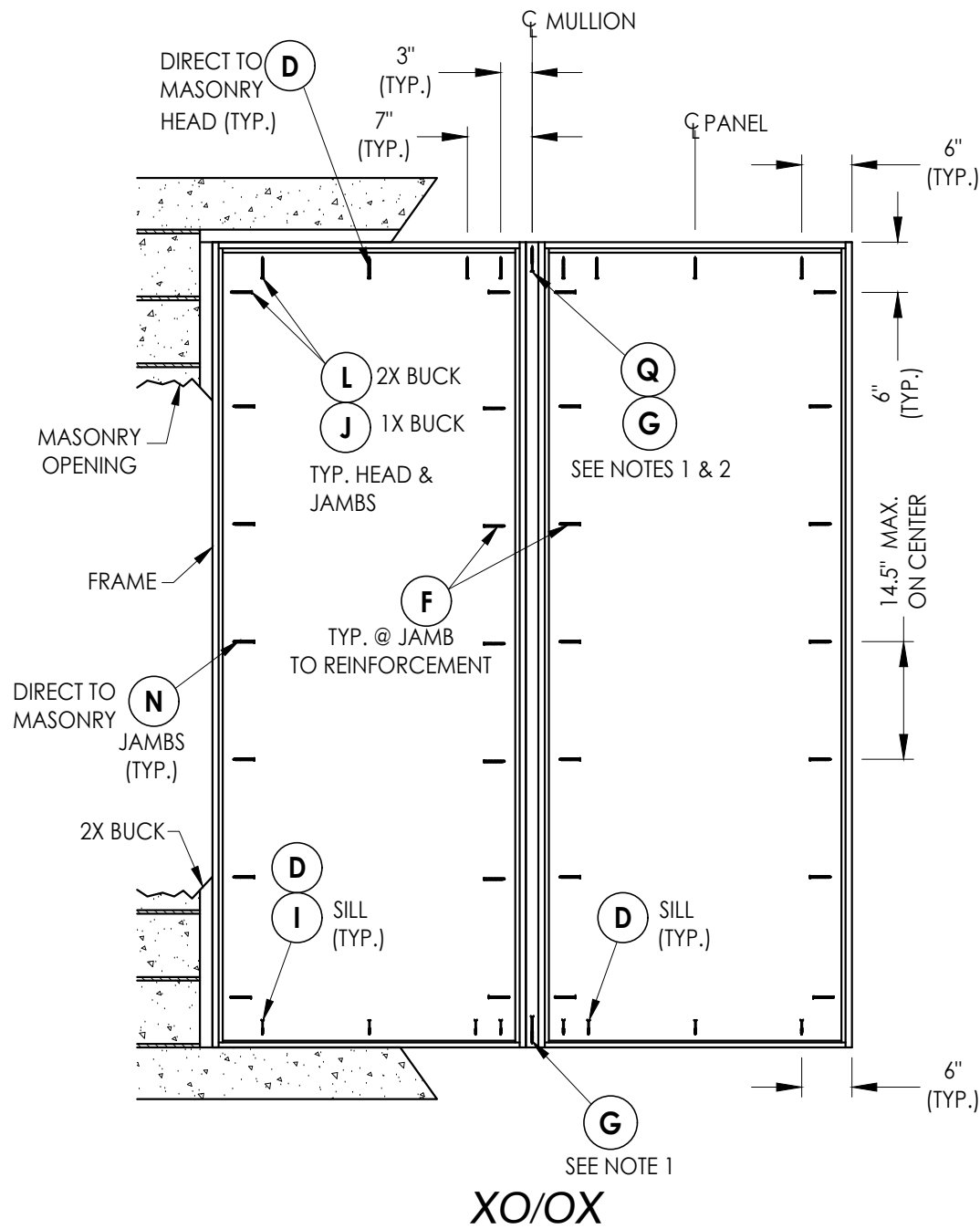
RW BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813

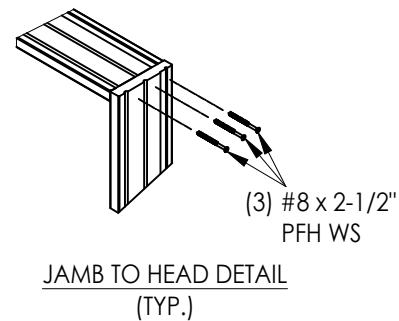
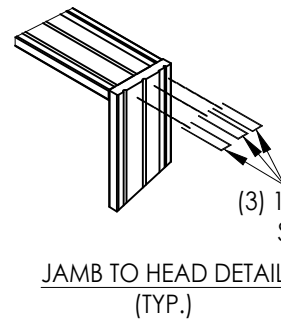
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FRAME ANCHORING

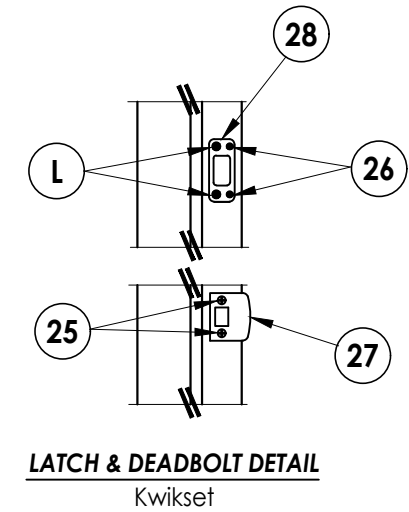
NOTES:

- 3/16" x 3-1/4" ITW concrete screw toe-nailed through mullion into masonry (each face).
- #10 X 3" wood screw toe-nailed through mullion into 2X Buck (each face).

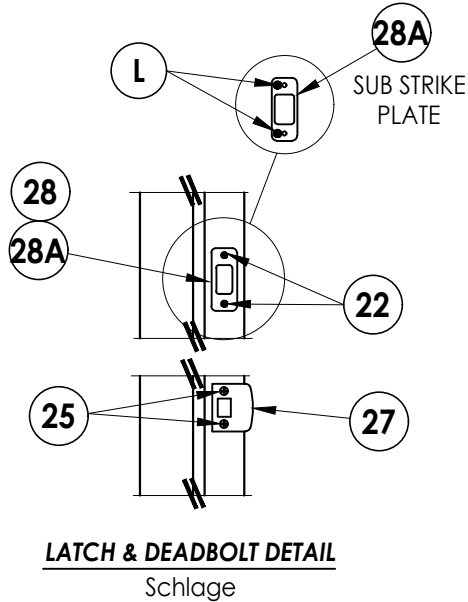


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409																			
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Z:\2023 FBC Drawings\Therma-Tru\FL-13459 R7\FL-13459.5-8.dwg

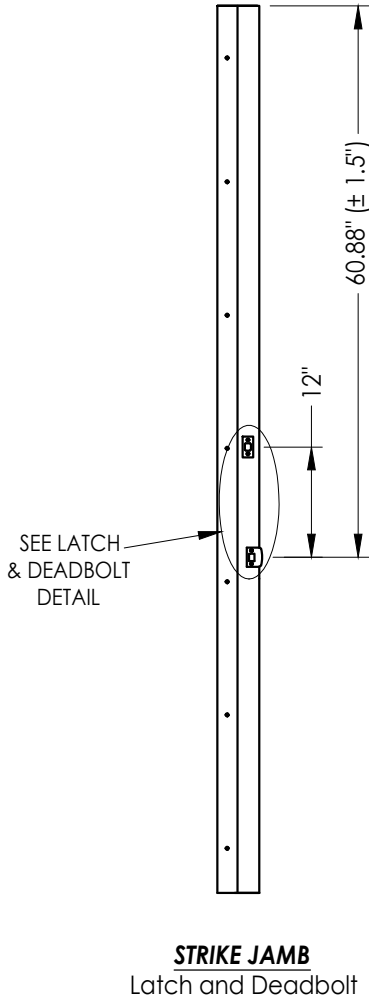


LATCH & DEADBOLT DETAIL
Kwikset

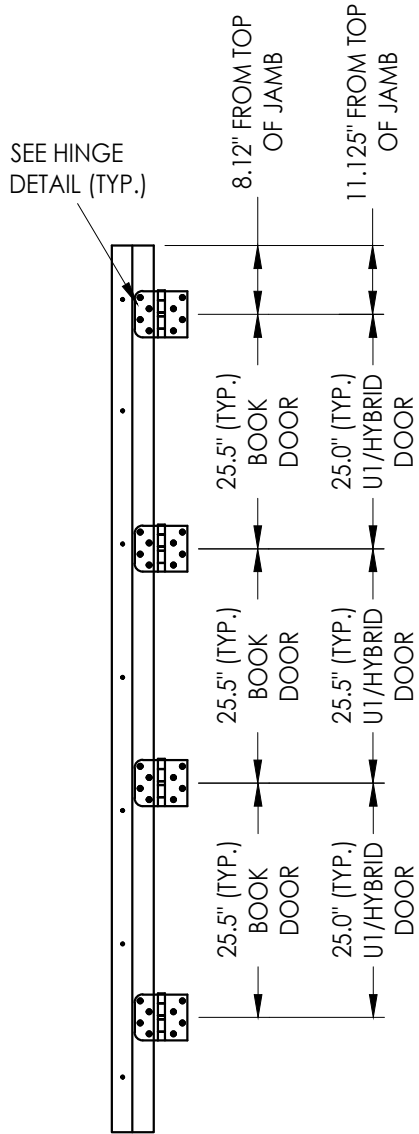


LATCH & DEADBOLT DETAIL
Schlage

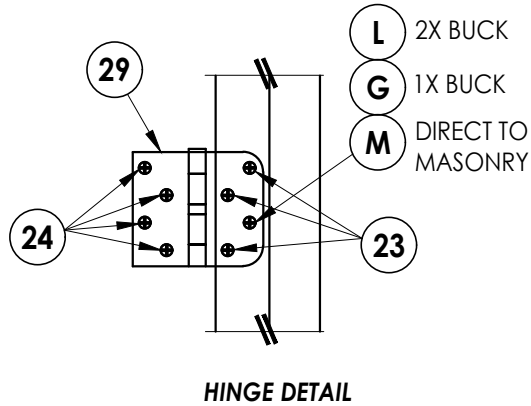
LATCH & DEADBOLT STRIKE DETAILS



STRIKE JAMB
Latch and Deadbolt



HINGE JAMB



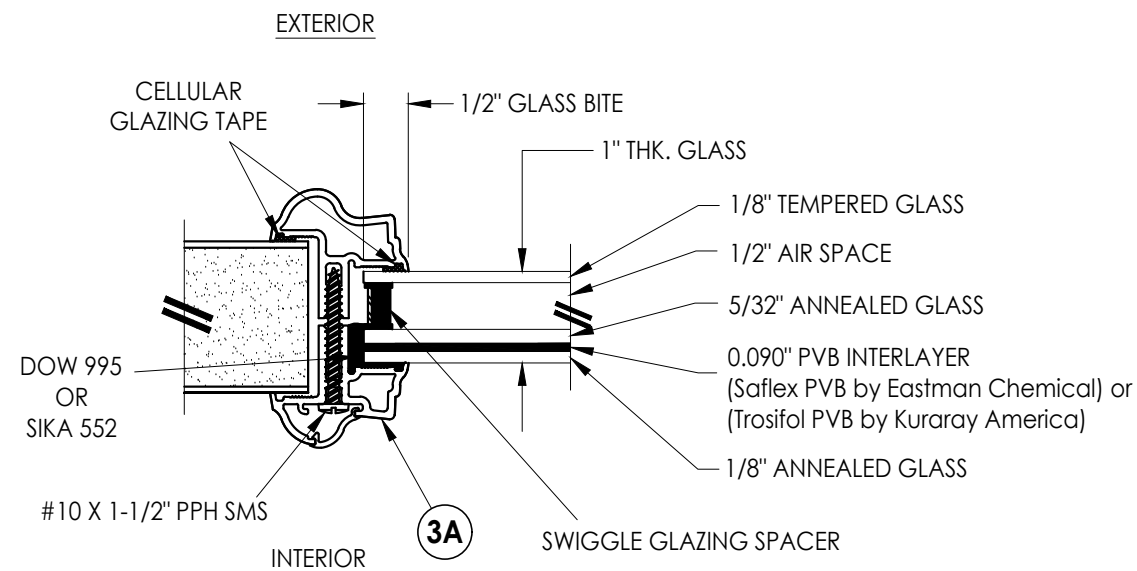
HINGE DETAIL

DATE:	4/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-13459.8
SHEET	12 OF 15

NO.	DATE	REVISIONS
3	7/10/23	UPDATE TO 8th ED (2023) FBC LFS
2	7/14/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC JK

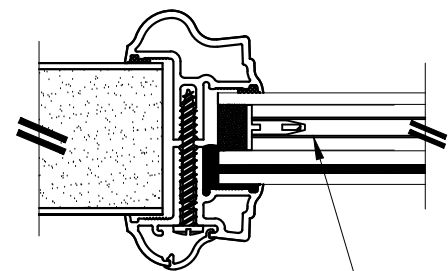
PRODUCT:	Therma-Tru FIBERGLASS DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS

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
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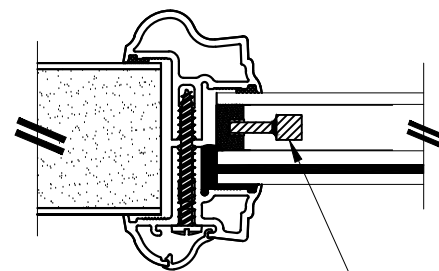


G1 GLAZING DETAIL

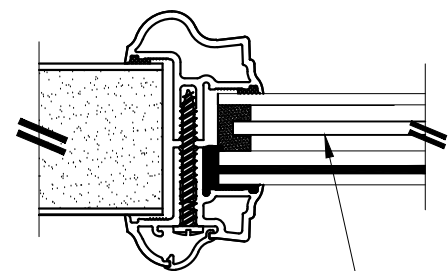
Aluminum Impact Lite Frame
Door Panels & Sidelites



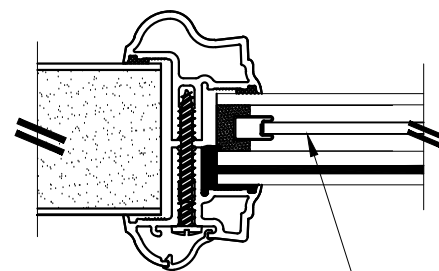
INTERNAL GRID (GBG)



WROUGHT IRON INSERT

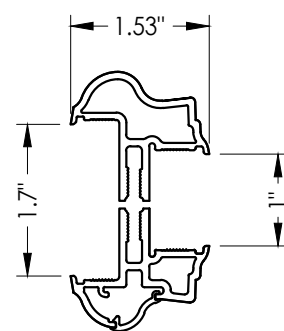


PRIVACY INSERT



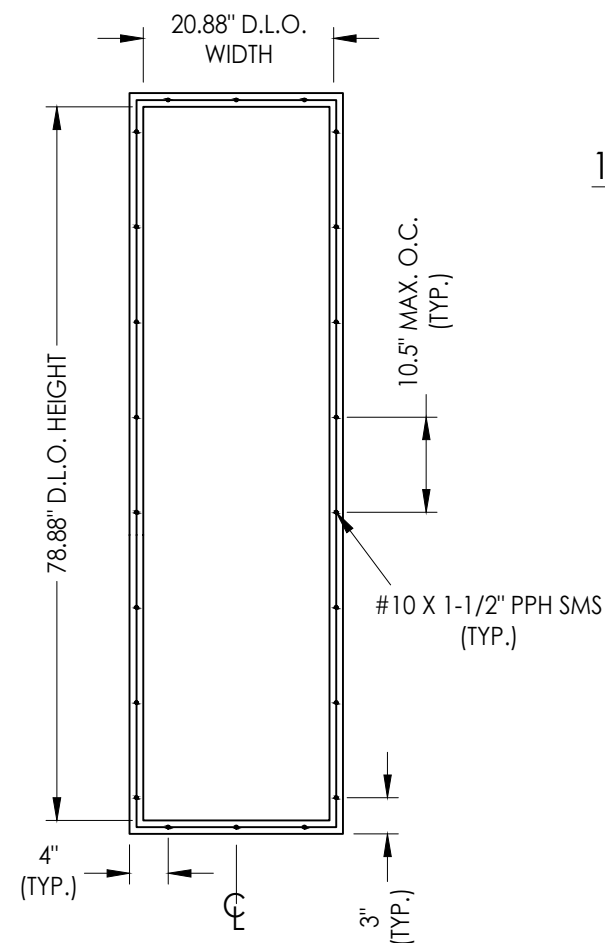
DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS



3A ALUMINUM FRAME

Aluminum Impact Lite Frame Door Panels & Sidelites



ALUMINUM LITE FRAME

3	7/10/23	UPDATE TO 8th ED.	(2023)	FBC	LFS
2	7/14/20	UPDATE TO 7th ED.	(2020)	FBC	LFS
1	7/17/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
NO.	DATE				
					REVISIONS

DATE: 4/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13459.8

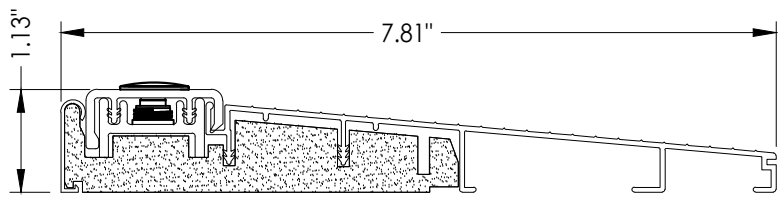
SHEET 13 OF 15

Sheet 10 of 10

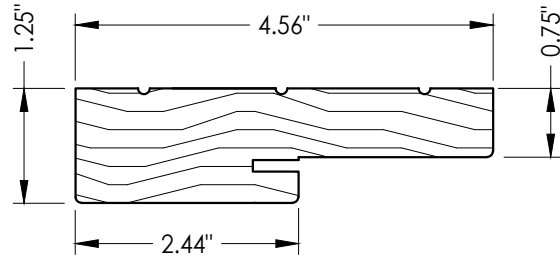
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

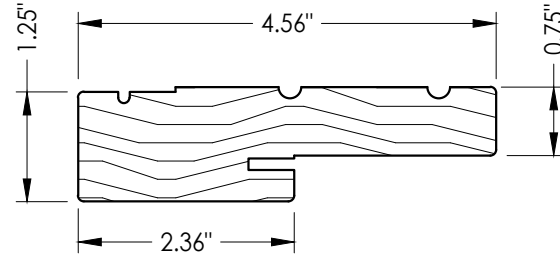
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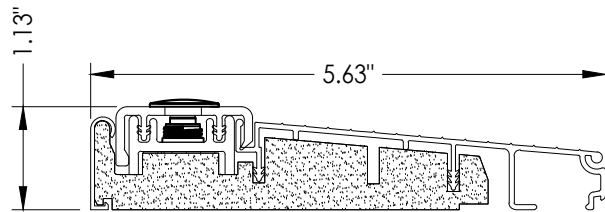
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



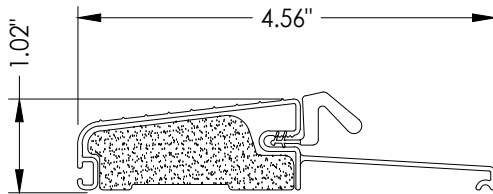
1 WOOD JAMB



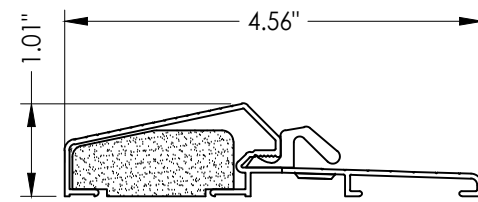
2 WOOD JAMB



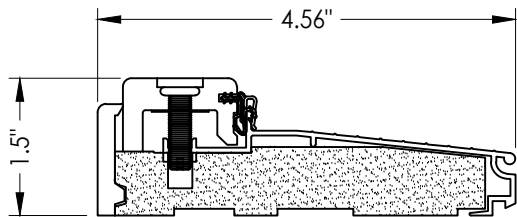
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



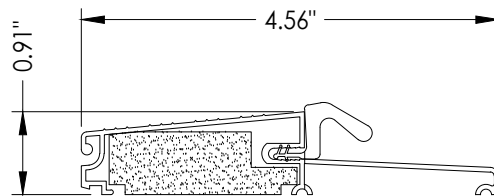
16 OUTSWING THRESHOLD
Composite Sill



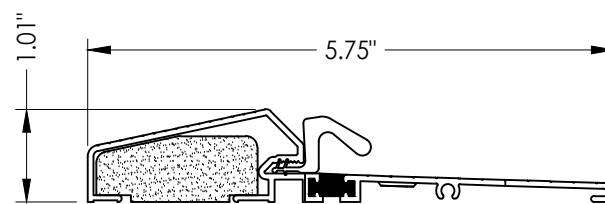
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



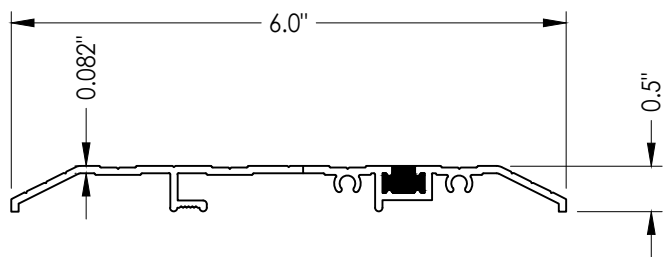
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



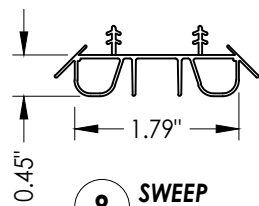
19 OUTSWING THRESHOLD
Composite Sill



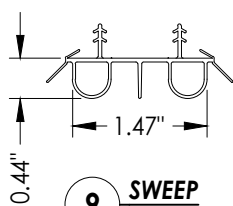
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



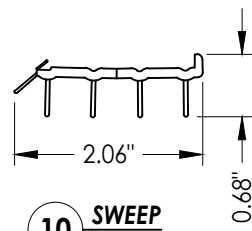
15 PUBLIC ACCESS THRESHOLD



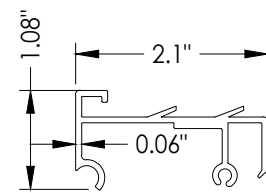
8 SWEEP



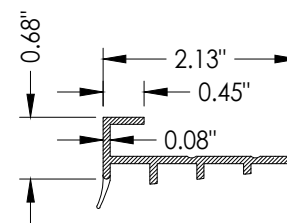
9 SWEEP



10 SWEEP



75 SIDELITE SPACER



76 SIDELITE SPACER

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PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS			
		DATE	BY	JK	LFS
3	7/10/23	UPDATE TO 8th ED. (2023)	FBC	LFS	
2	7/14/20	UPDATE TO 7th ED. (2020)	FBC	LFS	
1	7/17/17	UPDATE TO 6TH ED. (2017)	FBC	JK	

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SCALE: N.T.S.

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DRAWING NO.:

FL-13459.8

SHEET 14 OF 15

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			29	4" X 4" HINGE	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	34	INTERIOR MULL CASING	WOOD
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	35	EXTERIOR MULL CASING	WOOD
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	38	INSWING THRESHOLD	ALUM/COMP
K	1/2" X 1" X 25 GA. CORRUGATED FASTENER	STEEL	39	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	40	DOOR PANEL (BOOK)	-
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	41	DOOR PANEL (HYBRID)	-
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	42	DOOR PANEL (U1)	-
Q	#10 x 3" PFH WOOD SCREW	STEEL	50	SIDELITE	-
X	2X MULLION	WOOD	75	SIDELITE SPACER (INSWING)	PVC
1	JAMB (FINGER JOINT PINE)	WOOD	76	SIDELITE SPACER (OUTSWING)	PVC
2	JAMB (FINGER JOINT PINE)	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" maintain the min. edge distance to mortar joints, additionally		
6	WEATHERSTRIP (MEDIUM REACH)	FOAM			
7	WEATHERSTRIP (LONG REACH)	FOAM			
8	SWEEP	VINYL			
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL			
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	OUTSWING THRESHOLD	ALUM/COMP			
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]