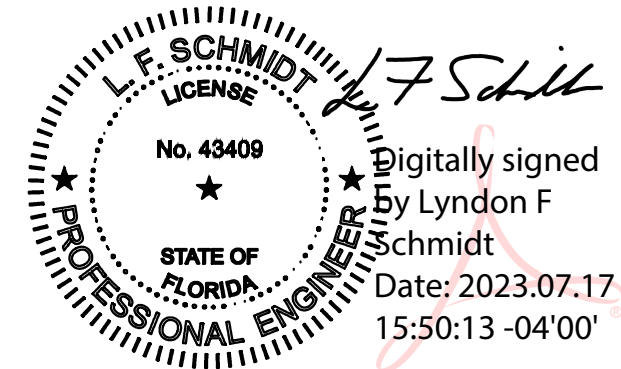
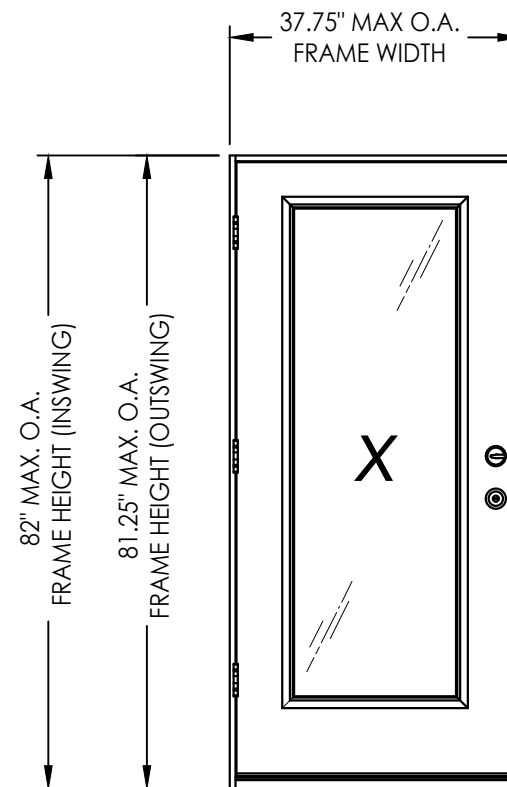


GENERAL NOTES

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.

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



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.

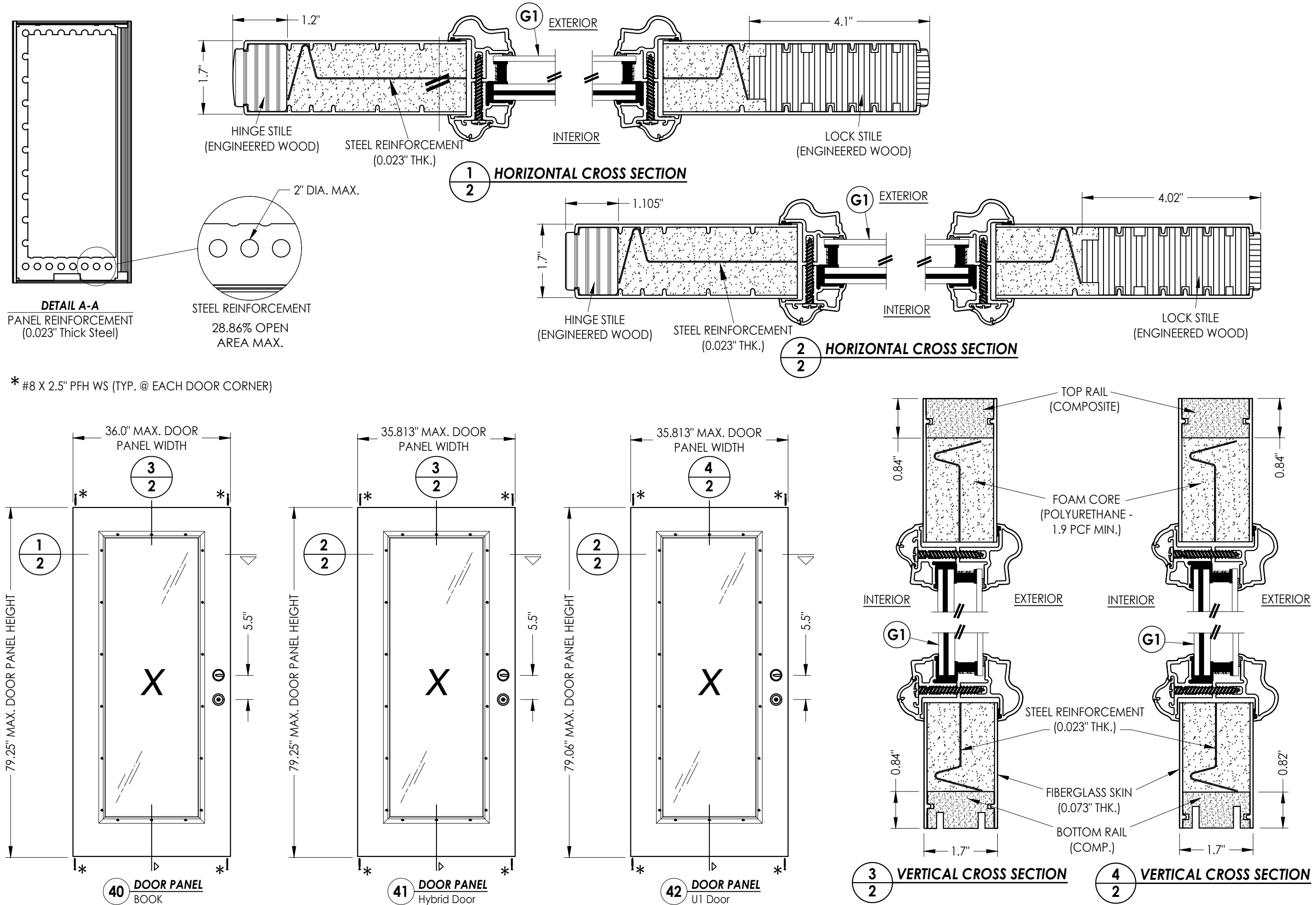
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	Latch & Deadbolt	+55.0	-55.0	+55.0	-55.0

See Sheet 3 for Hardware Specifications

DATE: 04/28/15				PRODUCT: THERMA-TRU FIBERGLASS DOOR				Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409			
SCALE: N.T.S.				PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES				RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
DWG. BY: JK											
CHK. BY: LFS											
DRAWING NO.: FL-13459.5											
SHEET 1 OF 12											

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



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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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
JK		
BY		

DATE: 04/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-13459.5
SHEET 2 OF 12

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

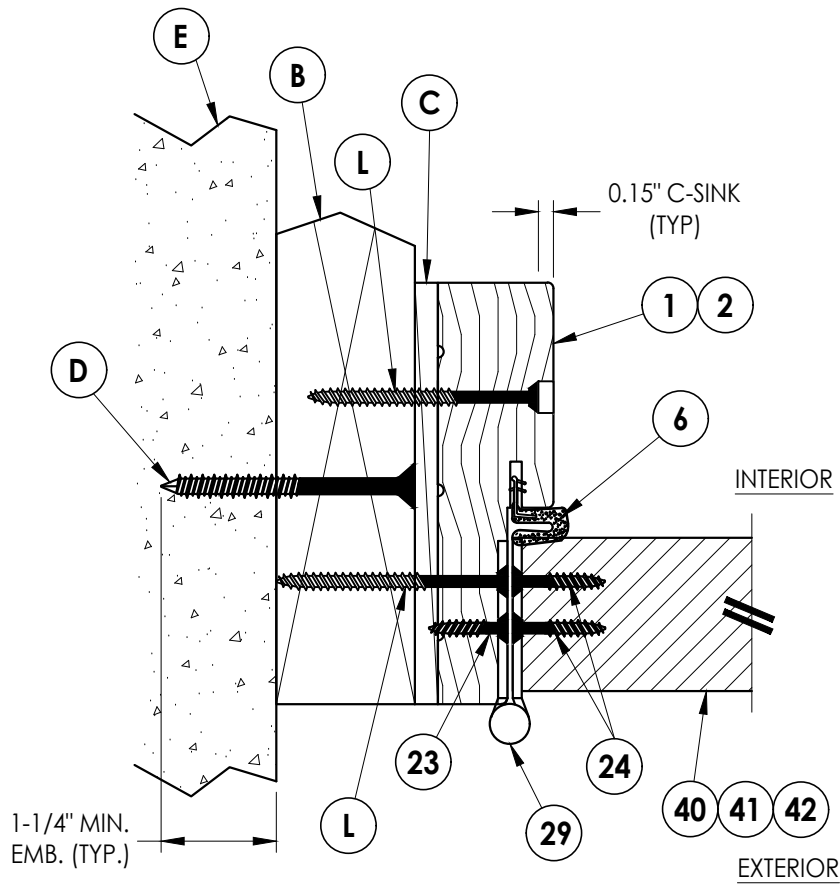


This row contains ten vertical architectural drawings of doors and windows. From left to right: 1. A door with a decorative glass panel featuring a central starburst and corner motifs, and a two-paneled base. 2. A door with a similar decorative glass panel and a solid rectangular base. 3. A tall, narrow window with a decorative glass pattern and a solid base. 4. A door with a solid upper panel and a two-paneled base. 5. A door with a solid upper panel and a two-paneled base, similar to the previous one. 6. A tall, narrow window with a grid of small panes and a solid base. 7. A door with a solid upper panel and a two-paneled base. 8. A door with a solid upper panel and a two-paneled base. 9. A door with a solid upper panel and a two-paneled base. 10. A door with a decorative glass panel featuring a central starburst and corner motifs, and a solid rectangular base.

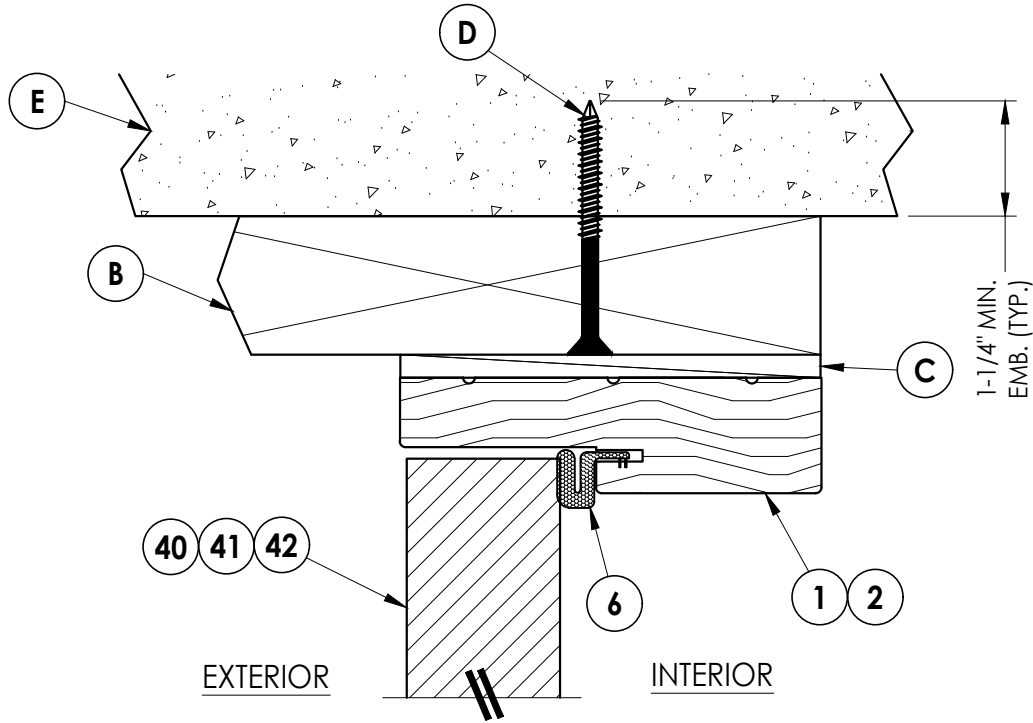
Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

DATE: 04/28/15					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-13459.5					
SHEET	3	OF	12		
PRODUCT:					
THERMA-TRU FIBERGLASS DOOR					
PART OR ASSEMBLY:					
ELEVATIONS					
REVISONS					
NO.	DATE				
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
BY					
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					

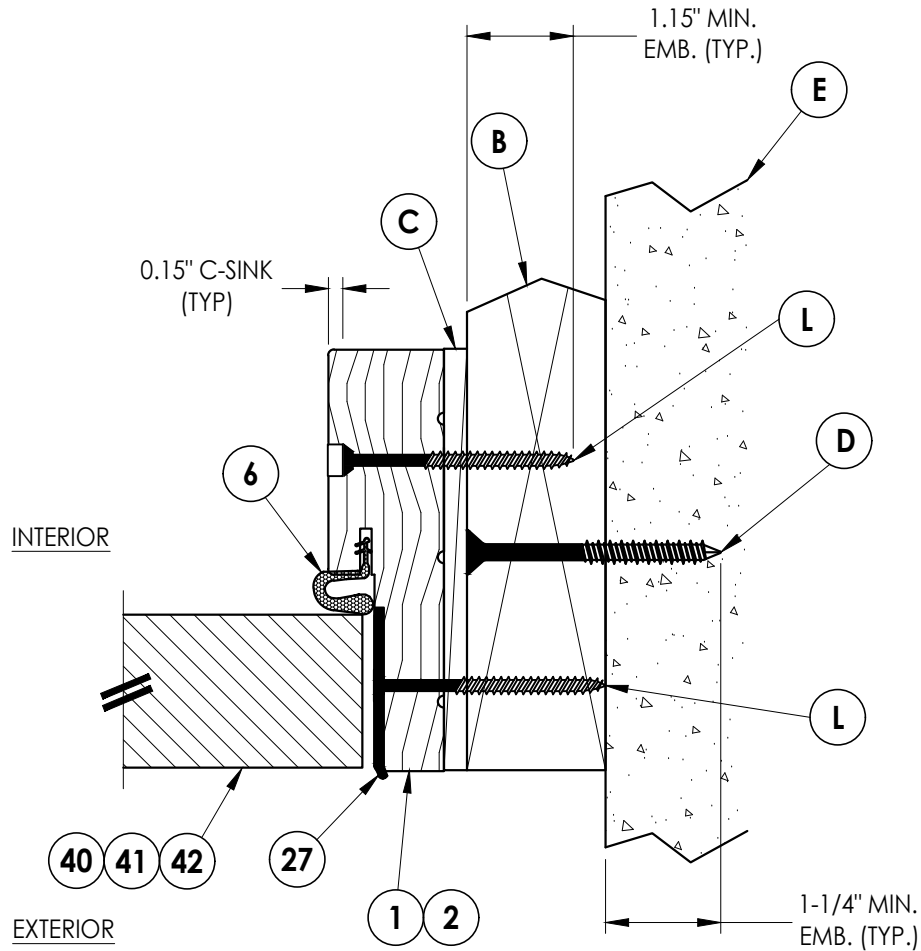
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2 HORIZONTAL CROSS SECTION
4 Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

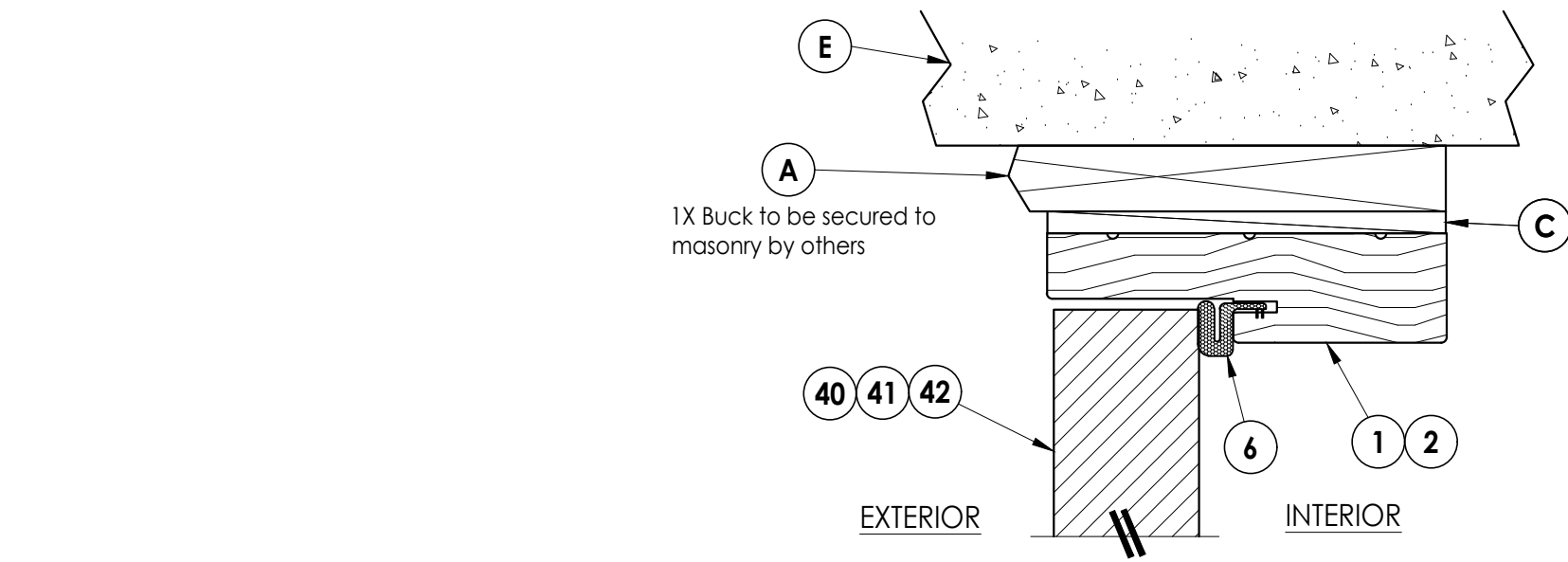
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04/28/15		3		7/10/23		LFS	
SCALE: N.T.S.		2		7/14/20		FBC	
DWG. BY: JK		1		7/17/17		FBC	
CHK. BY: LFS							
DRAWING NO.: FL-13459.5							
SHEET 4 OF 12							

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

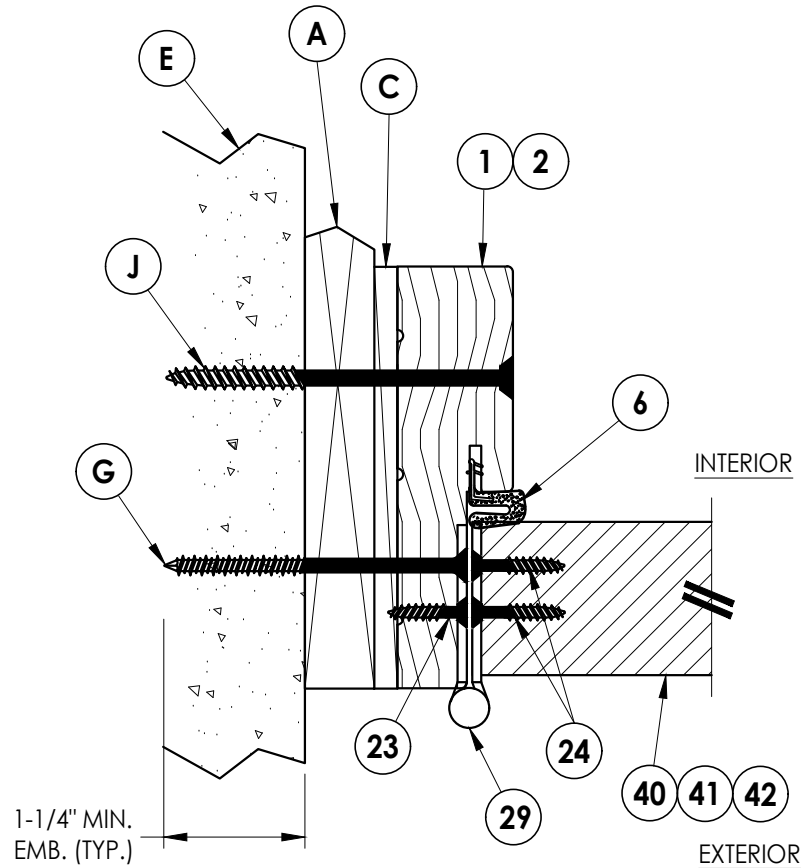
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

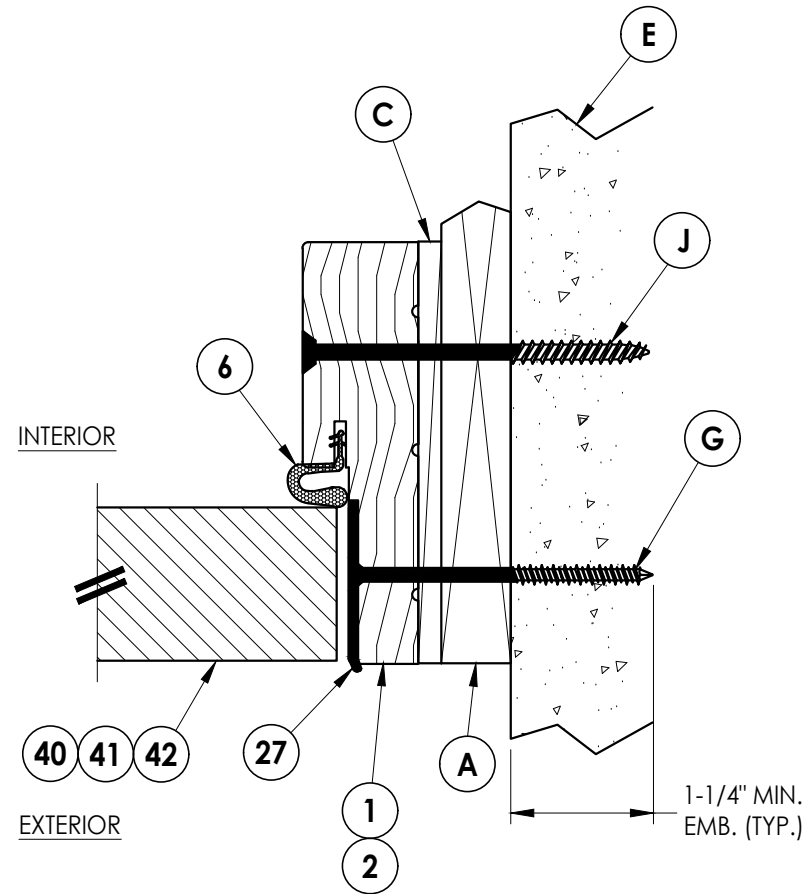
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1 VERTICAL CROSS SECTION
5 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2 HORIZONTAL CROSS SECTION
5 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3 HORIZONTAL CROSS SECTION
5 Shown w/ 1X sub-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 (1X BUCK)

REVISIONS		NO.	DATE	BY
		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: 04/28/15

SCALE: N.T.S.

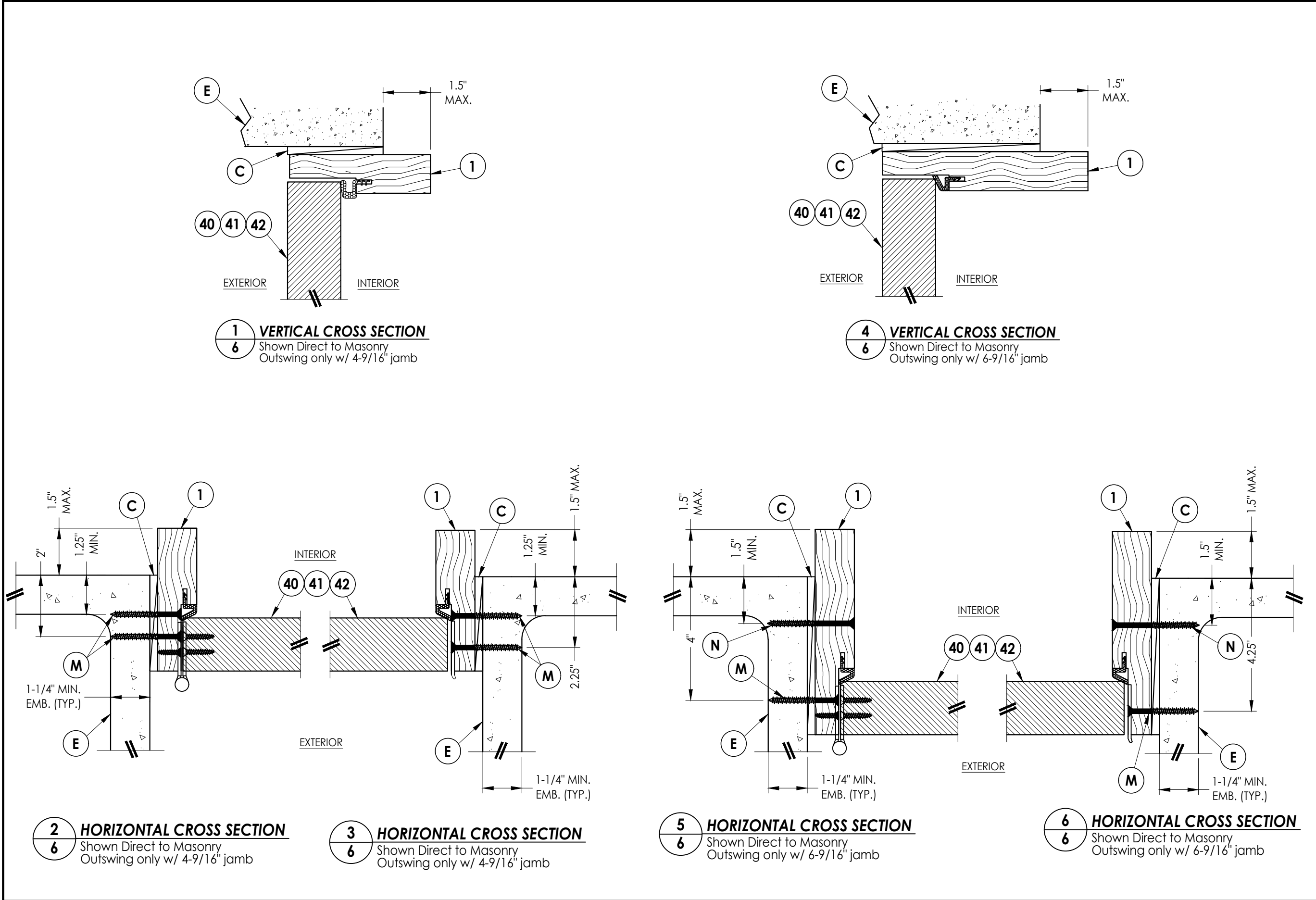
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13459.5

SHEET 5 OF 12



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

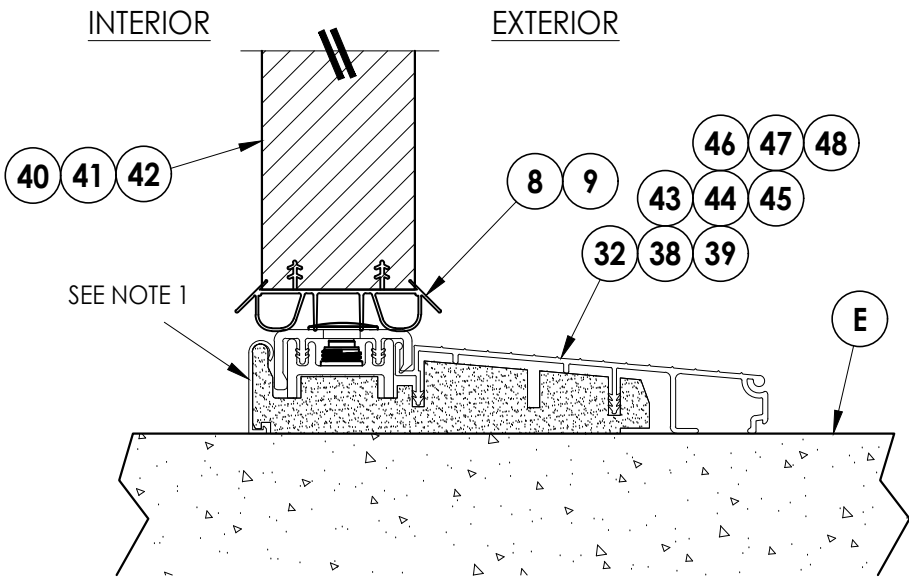
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

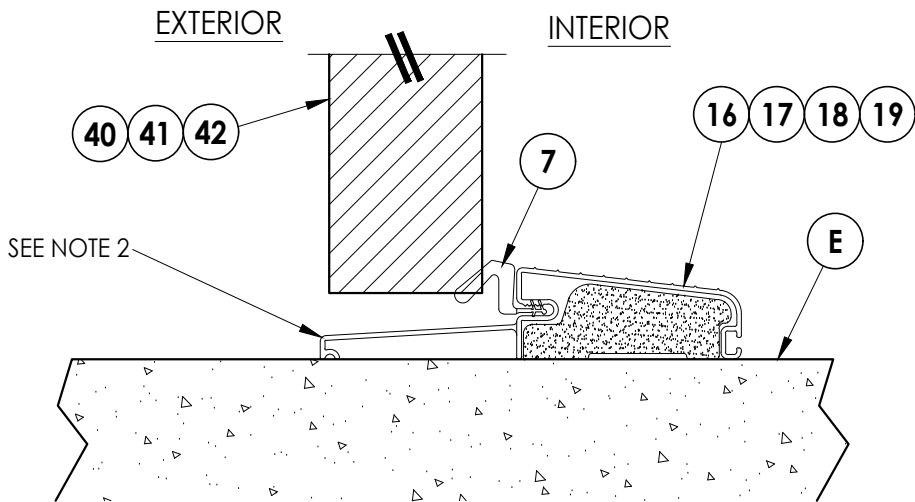
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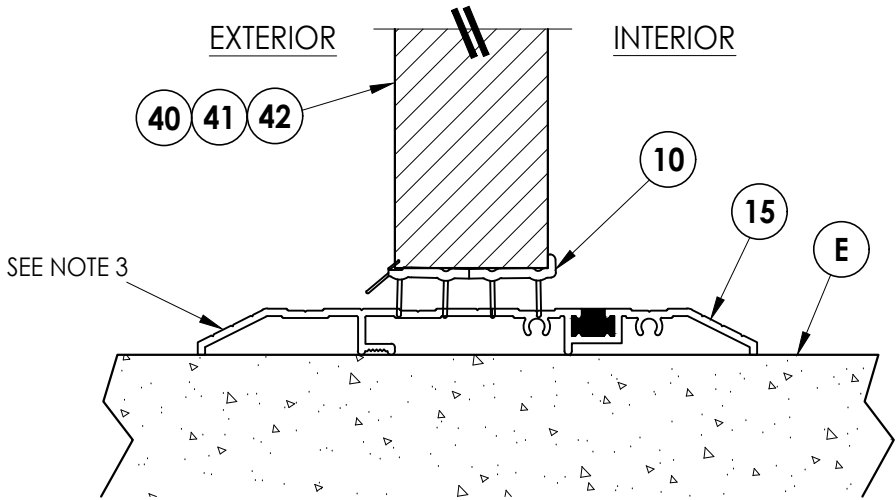
- Notes:
- 1. Sill Item #'s 32, 38, 39, 43, 44, 45, 46, 47 & 48 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws or (3) 2.5" staples at each end.
 - 2. Sill Item #'s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
 - 3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



1
7 **VERTICAL CROSS SECTION**
Inswing Sill



2
7 **VERTICAL CROSS SECTION**
Outswing Sill



3
7 **VERTICAL CROSS SECTION**
Public Access 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: 04/28/15

SCALE: N.T.S.

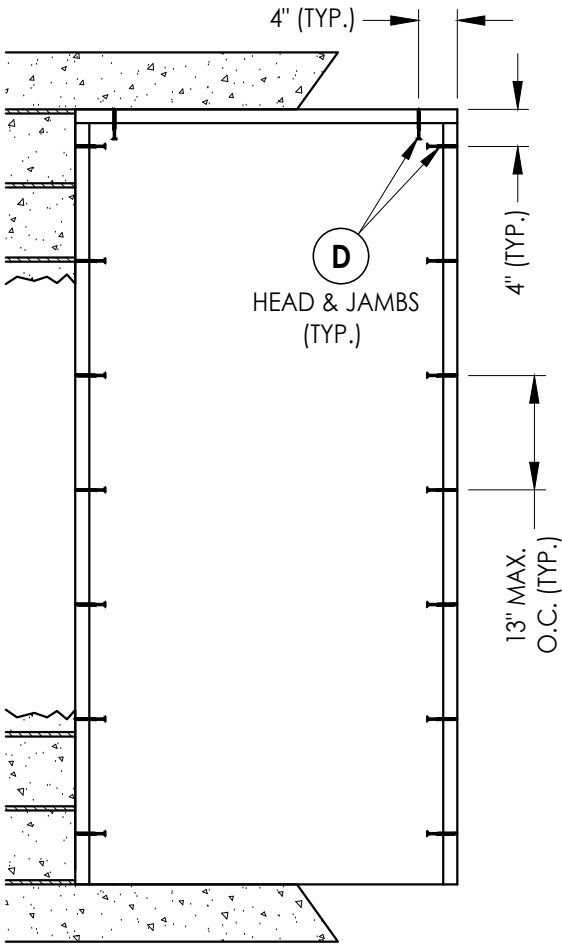
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CHK. BY: LFS

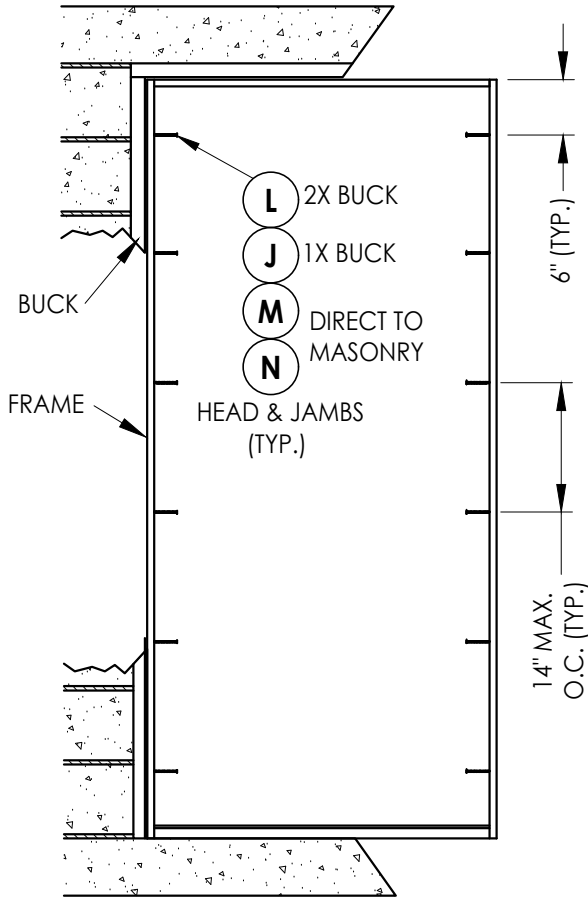
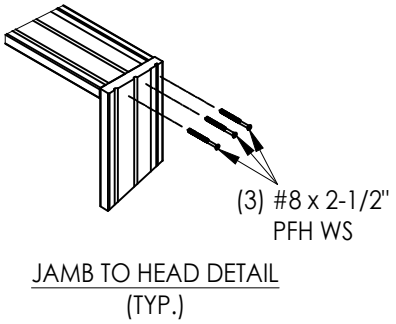
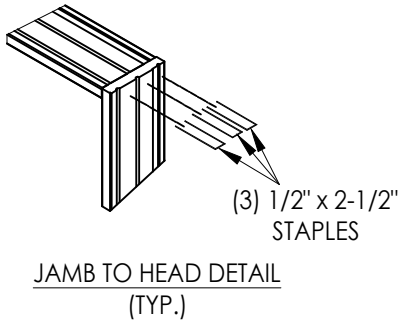
DRAWING NO.:
FL-13459.5

SHEET 7 OF 12

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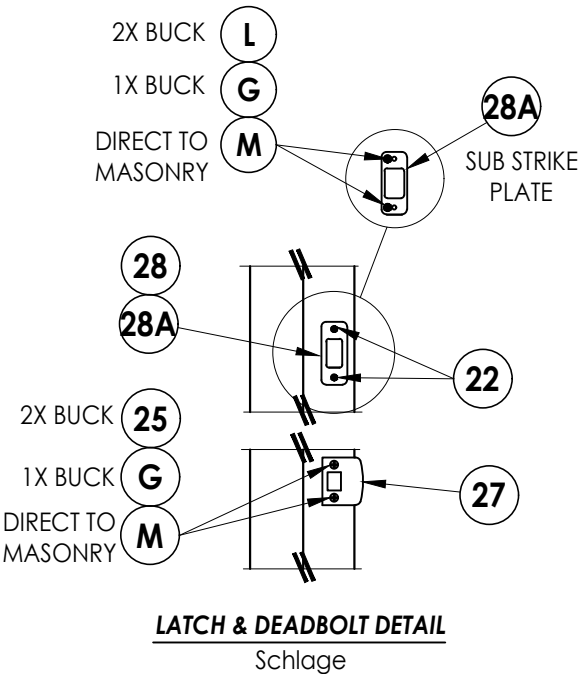
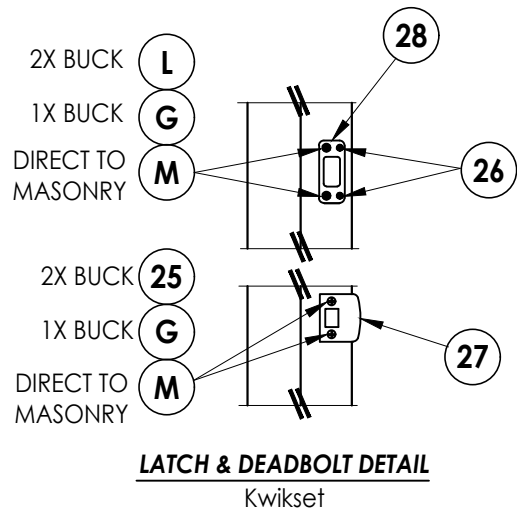


2X BUCK ANCHORING

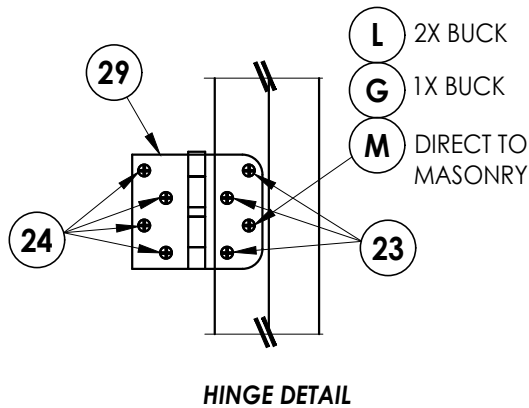
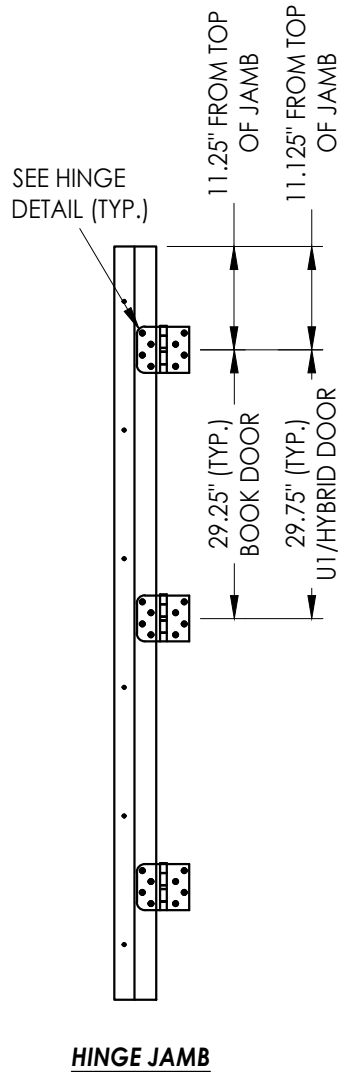
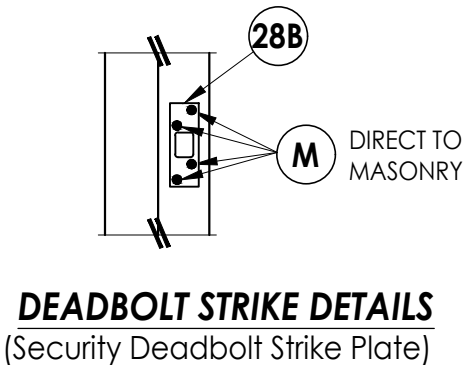
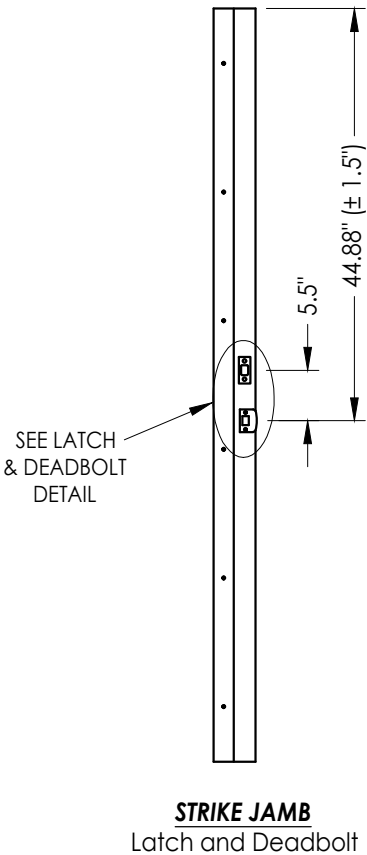


FRAME ANCHORING

DATE: 04/28/15		PRODUCT:		THERMA-TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.		PART OR ASSEMBLY:		BUCK & FRAME ANCHORING		<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-13459.5							
SHEET 8 OF 12							
		REVISIONS					

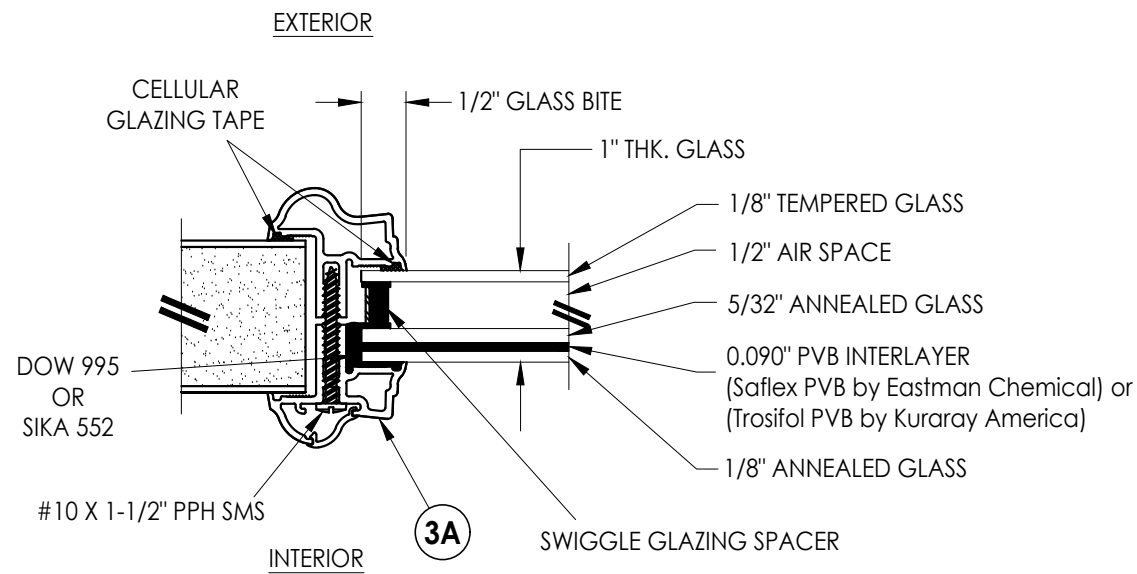


LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)

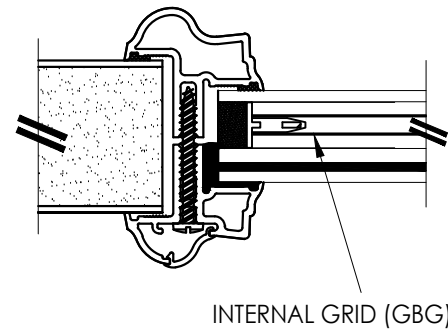


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: THERMA-TRU FIBERGLASS DOOR				PART OR ASSEMBLY: HARDWARE DETAILS			
				LFS	FBC	LFS	BY
				LFS	FBC	LFS	DATE
				JK	FBC	JK	NO.
				BY		BY	DATE
DATE: 04/28/15				REVISIONS			
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-13459.5							
SHEET 9 OF 12							

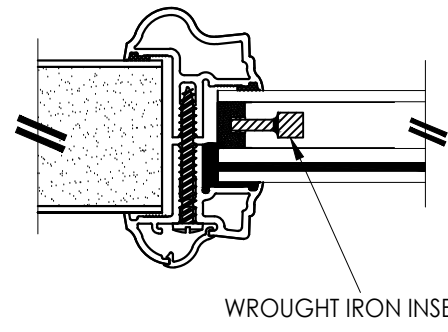
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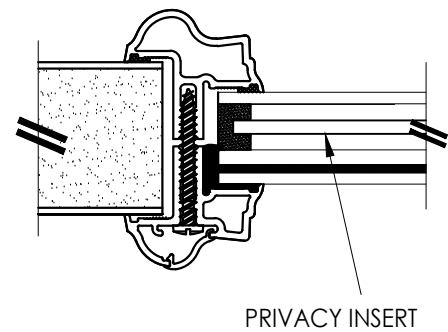
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



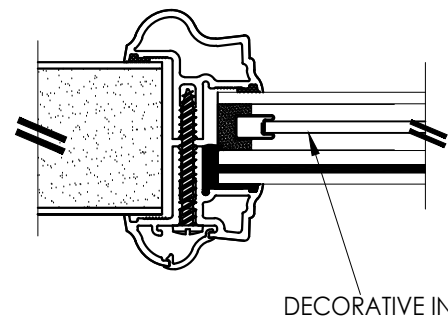
INTERNAL GRID (GBG)



WROUGHT IRON INSERT

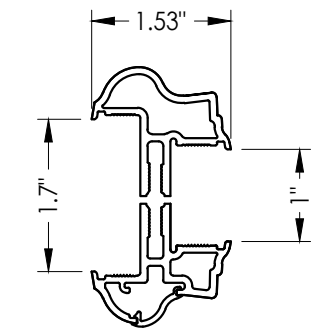


PRIVACY INSERT

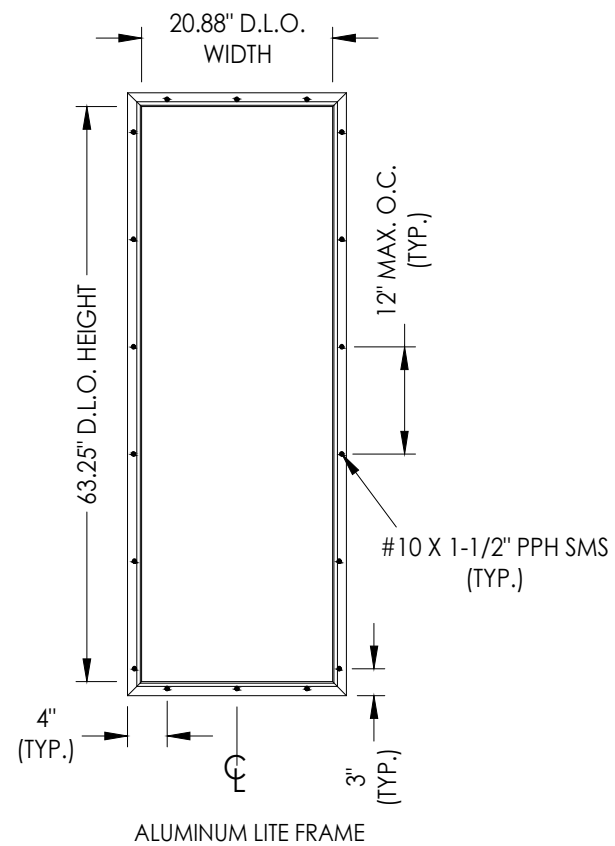


DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS



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



ALUMINUM LITE FRAME

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:

GLAZING 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

DATE: 04/28/15

SCALE: N.T.S.

DWG. BY: JK

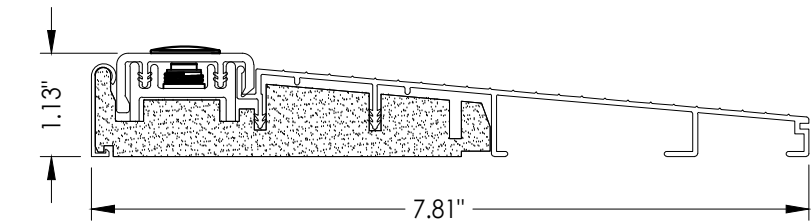
CHK. BY: LFS

DRAWING NO.:

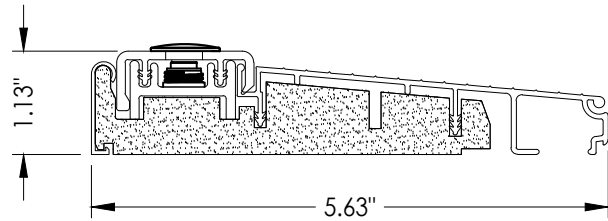
FL-13459.5

SHEET 10 OF 12

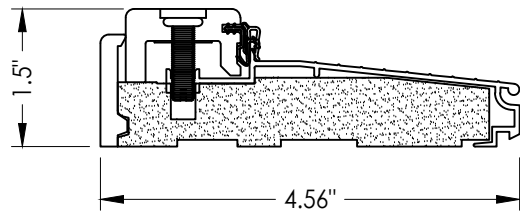
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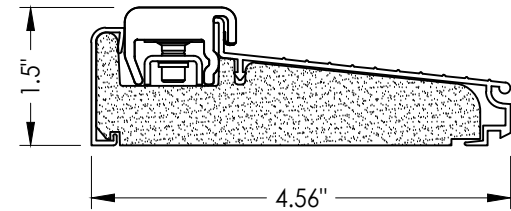
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



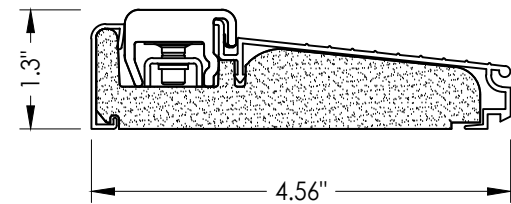
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



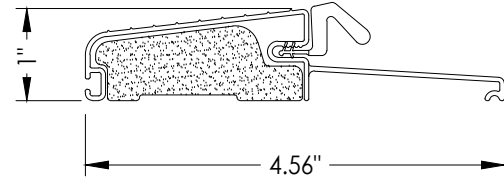
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



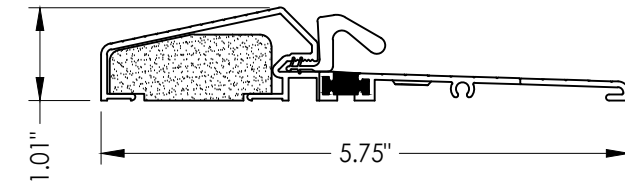
43 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



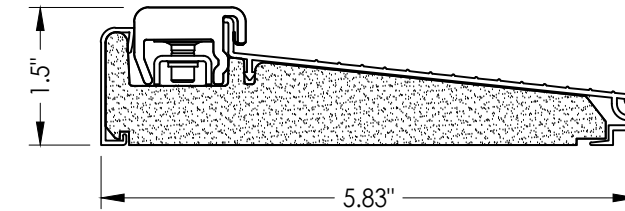
46 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



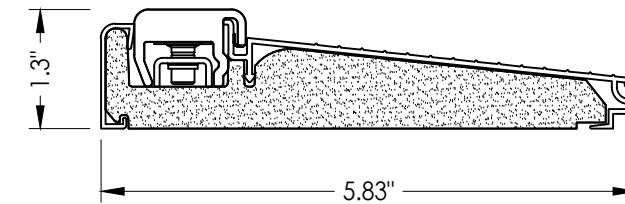
16 OUTSWING THRESHOLD
Composite Sill



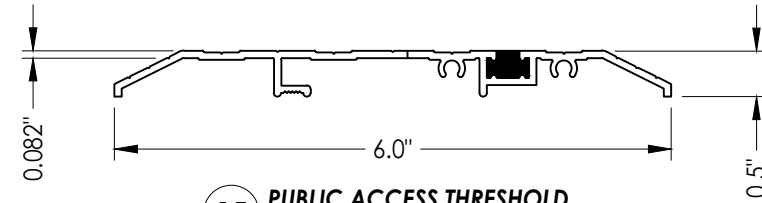
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



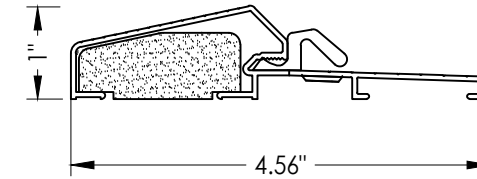
44 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



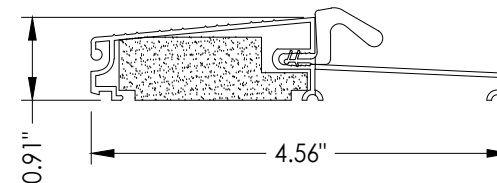
47 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



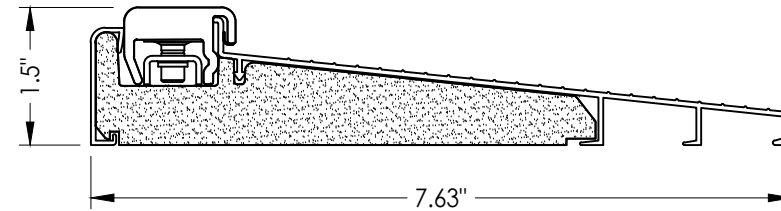
15 PUBLIC ACCESS THRESHOLD



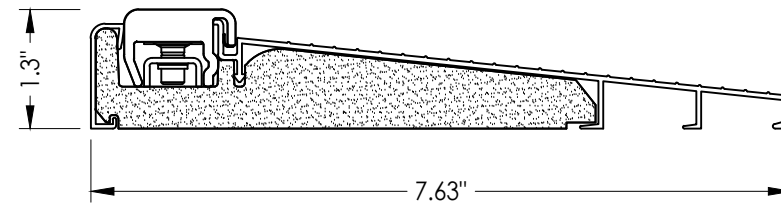
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



19 OUTSWING THRESHOLD
Composite Sill



45 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



48 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1

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:

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	

DATE: 04/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13459.5

SHEET 11 OF 12

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

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
G	3/16" X 3-1/4" 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
2	JAMB (FINGER JOINT PINE)	WOOD
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
8	SWEEP	VINYL
9	SWEEP	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:

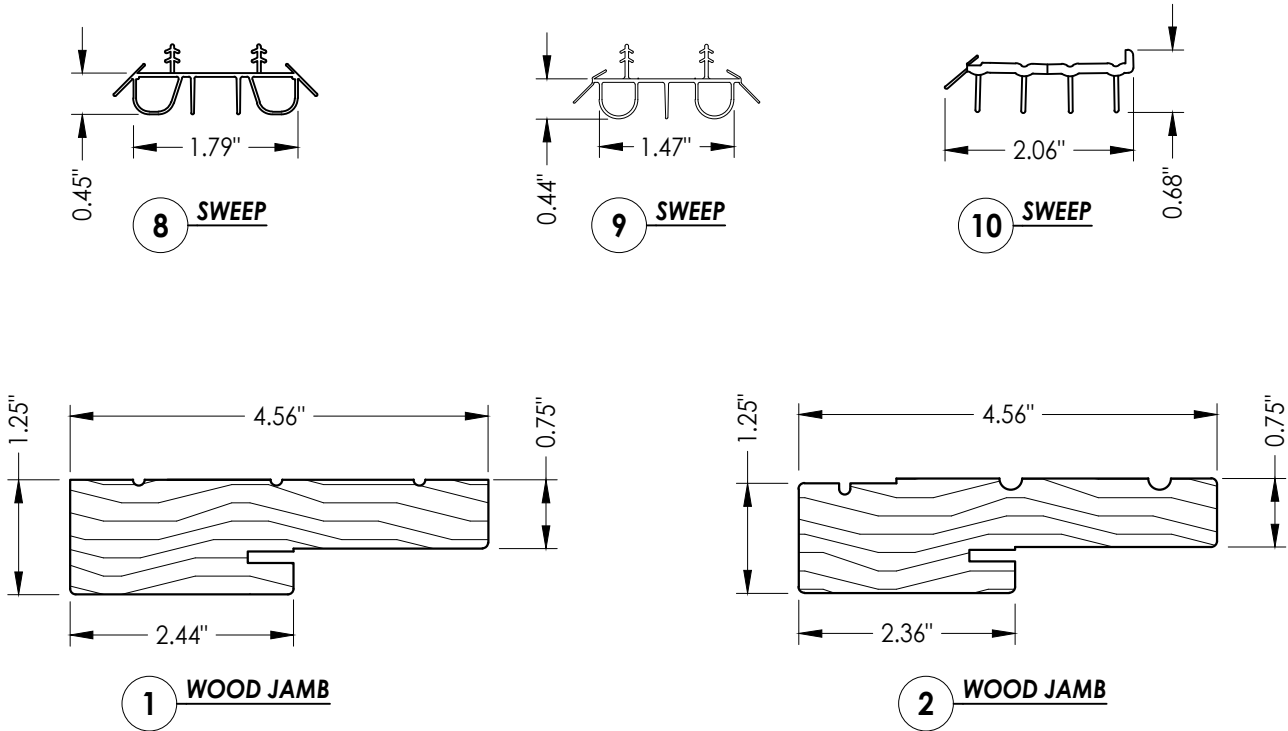
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
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:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

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 (STANDARD)	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
38	INSWING THRESHOLD	ALUM/COMP
39	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
43	INSWING THRESHOLD	ALUM/COMP
44	INSWING THRESHOLD	ALUM/COMP
45	INSWING THRESHOLD	ALUM/COMP
46	INSWING THRESHOLD	ALUM/COMP
47	INSWING THRESHOLD	ALUM/COMP
48	INSWING THRESHOLD	ALUM/COMP



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PRODUCT:	Therma-Tru FIBERGLASS DOOR	PART OR ASSEMBLY: COMPONENTS & BILL OF MATERIALS	
		LFS	BY
		UPDATE TO 8th ED (2023) FBC	JK
		UPDATE TO 7th ED (2020) FBC	JK
		UPDATE TO 6TH ED. (2017) FBC	JK
		NO. DATE	REVISIONS
DATE: 04/28/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-13459.5			
SHEET 12 OF 12			