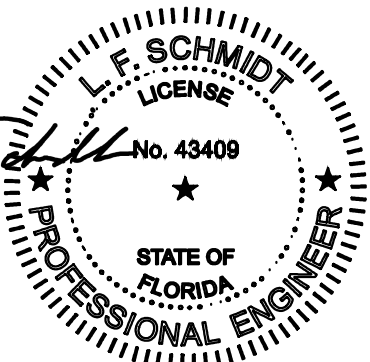
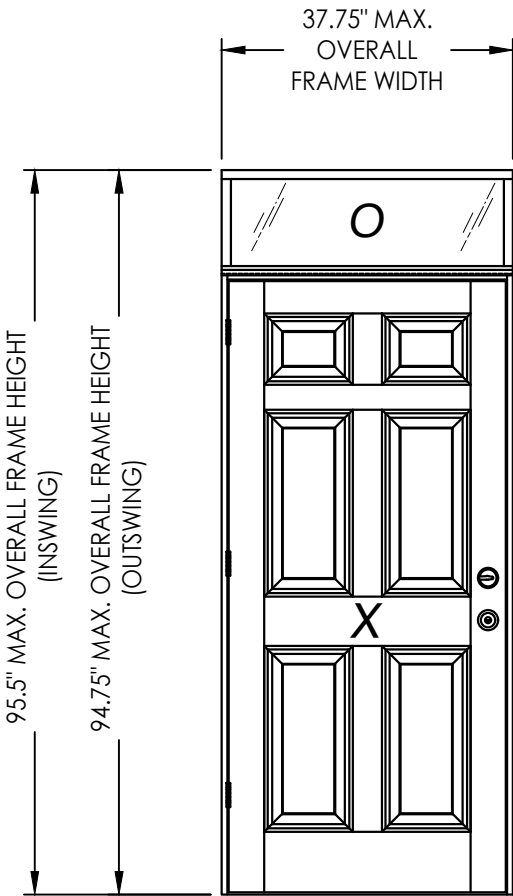


COMPOSITE EDGE
OPAQUE FIBERGLASS SINGLE DOOR
w/ TRANSOM
INSWING/OUTSWING
"NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding 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 areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2 as follows: Wind Zones 1, 2 & 3: Glazed Transom only; Wind Zone 4: Entire System.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Fiber-Classic & Smooth-Star Door panels require the use of "J" part numbers and must be stained or painted within six months of installation.

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



Digitally signed by Lyndon F Schmidt
Date: 2023.07.19 15:20:51 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.

Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
O/X	Latch & Deadbolt	+47.0	-47.0	+47.0	-47.0
O/X	Multipoint	+47.0	-47.0	+47.0	-47.0

See Sheet 4 for Hardware Specifications

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

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

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

5	7/19/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	7/21/20	UPDATE TO 7th ED (2020)	FBC	LFS
3	10/09/18	REV. DOOR PANEL OPTION NOTE	MT	MT
2	11/15/17	RECESSED PANEL NOTATION	JK	JK
1	7/7/17	UPDATE TO 6th ED (2017)	FBC	JK
NO.	DATE			BY
REVISIONS				

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

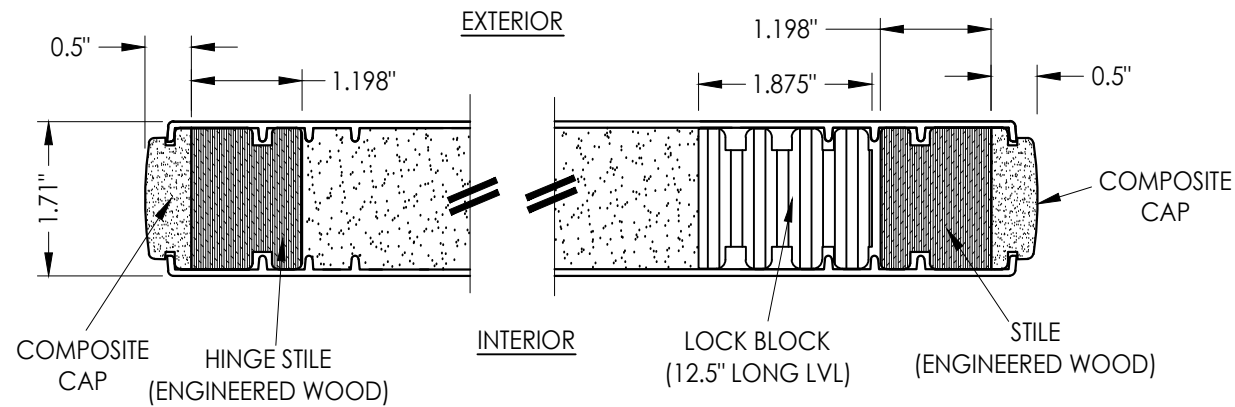
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SHEET 1 OF 12

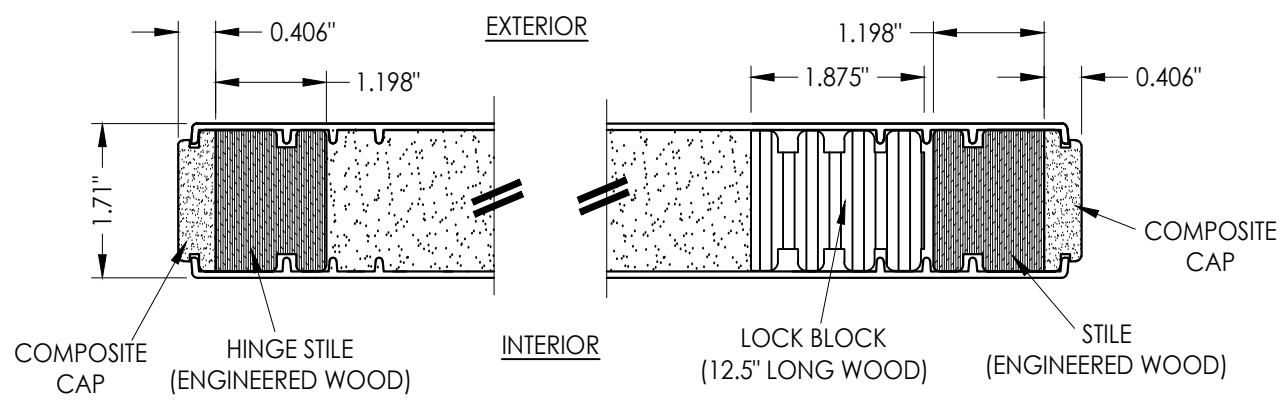
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FBPE Registry No. 9813

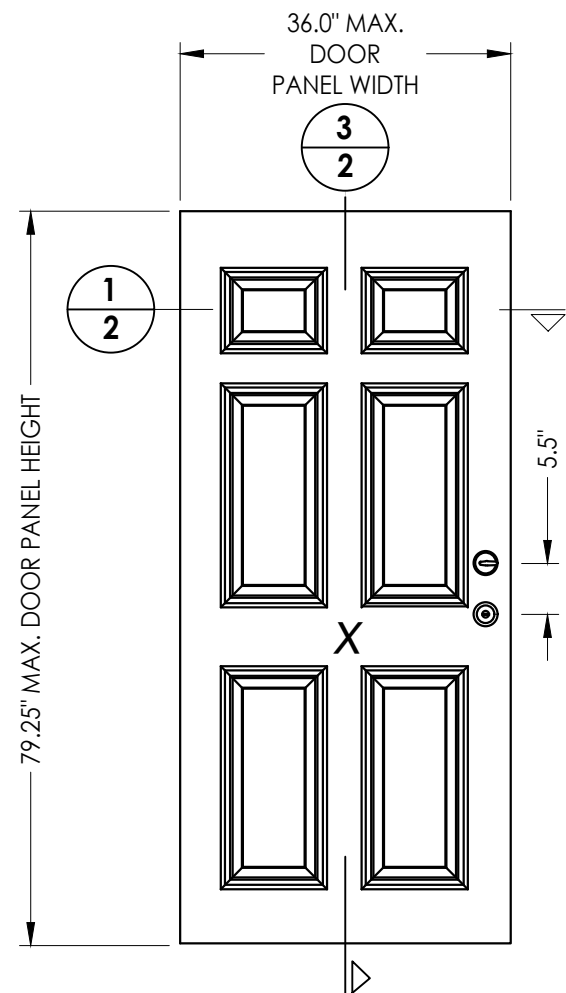
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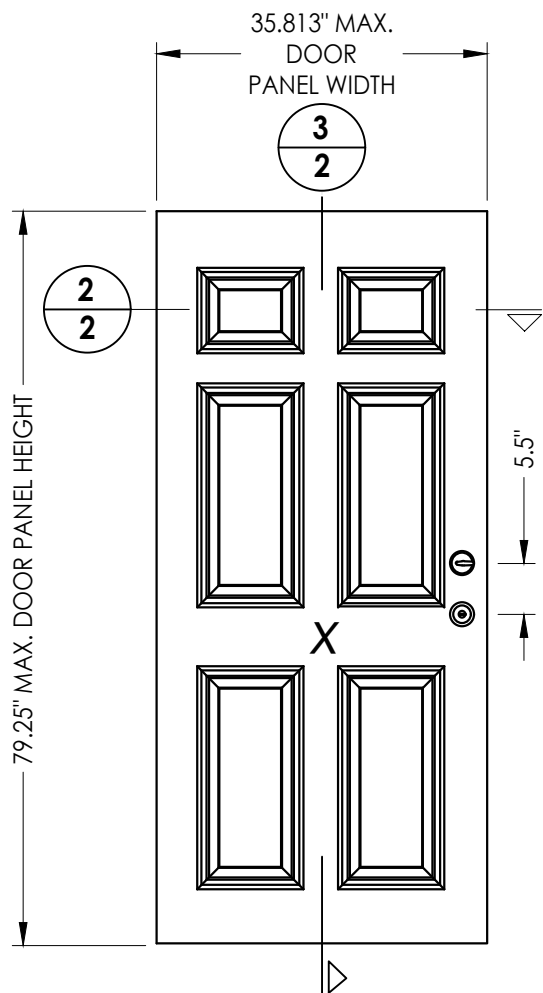
1
2 HORIZONTAL CROSS SECTION



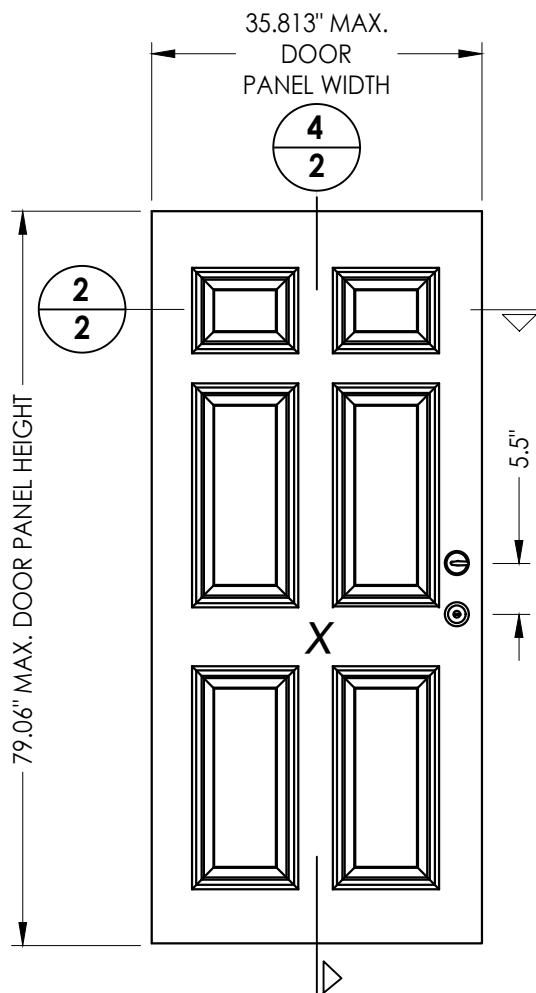
2
2 HORIZONTAL CROSS SECTION



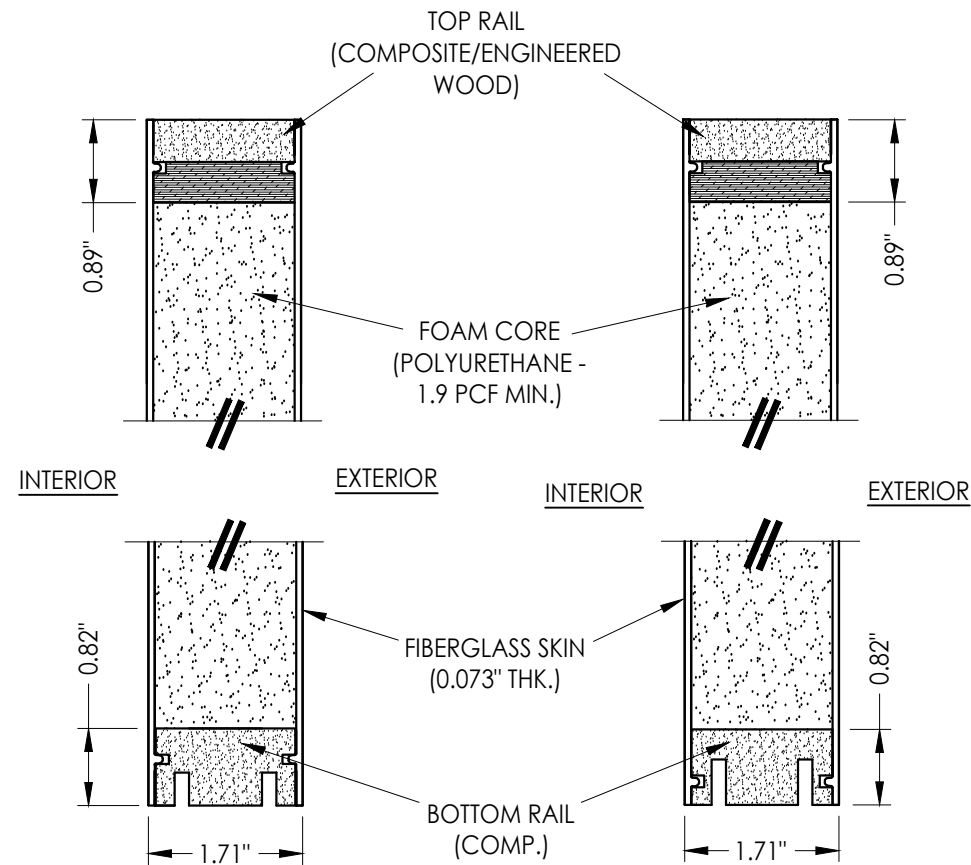
40 DOOR PANEL BOOK



41 DOOR PANEL Hybrid Door



42 DOOR PANEL U1 Door



3
2 VERTICAL CROSS SECTION

4
2 VERTICAL CROSS SECTION

Documents Prepared By:
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PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC
4	7/21/20	UPDATE TO 7TH ED. (2020) FBC
3	10/09/18	REV. DOOR PANEL OPTION NOTE
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6TH ED. (2017) FBC

DATE: 5/26/16

SCALE: N.T.S.

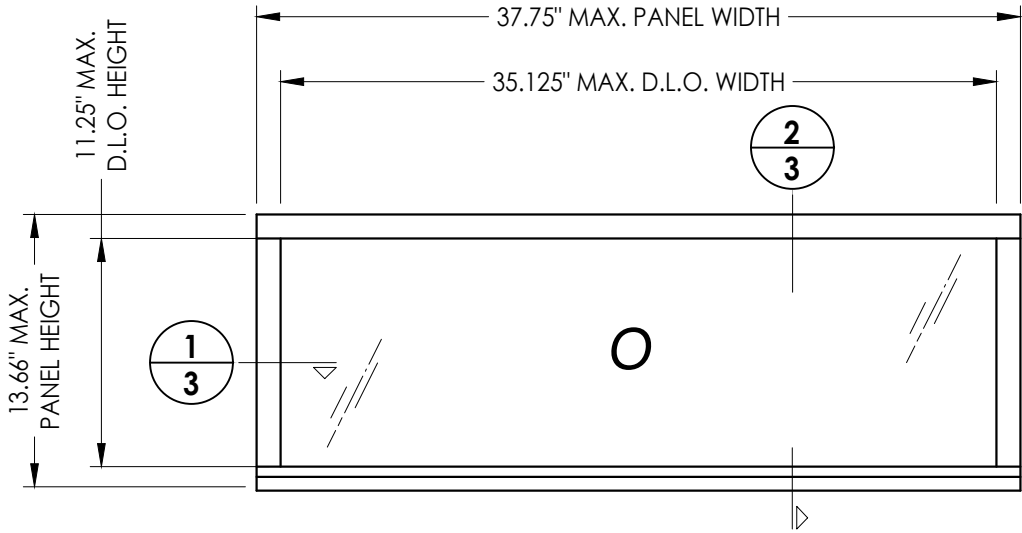
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CHK. BY: LFS

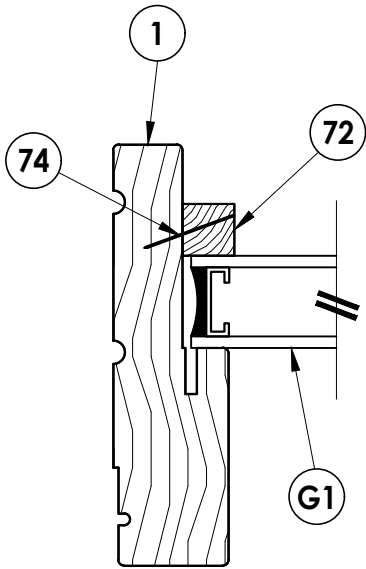
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SHEET 2 OF 12

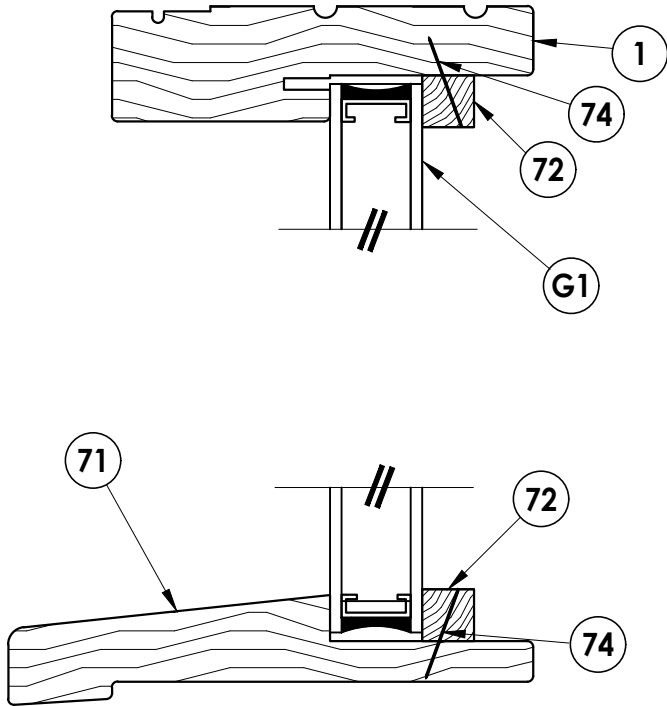
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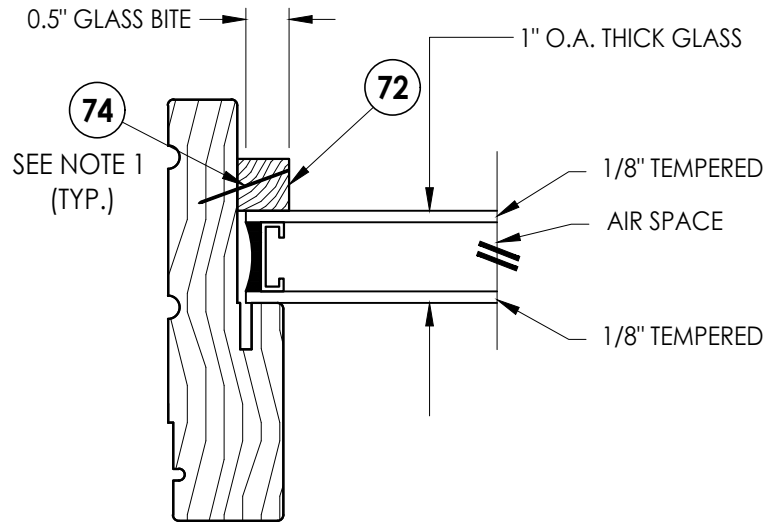
70 Transom



1
3 HORIZONTAL CROSS SECTION



2
3 VERTICAL CROSS SECTION



G1 GLAZING DETAIL

NOTE:
1. Attach transom molding with item #74, located 4" each end and 6" o.c. thereafter.

DATE		UPDATE TO 8TH ED. (2023)		UPDATE TO 7th ED (2020)		REV. DOOR PANEL OPTION		RECESSED PANEL NOTATION		UPDATE TO 6th ED (2017)		NO.		DATE	
5	7/19/23		FBC	4	7/21/20		MT	2	11/15/17		JK	1	7/7/17		BY
SHEET		3		OF		12									

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20461.17

SHEET 3 OF 12

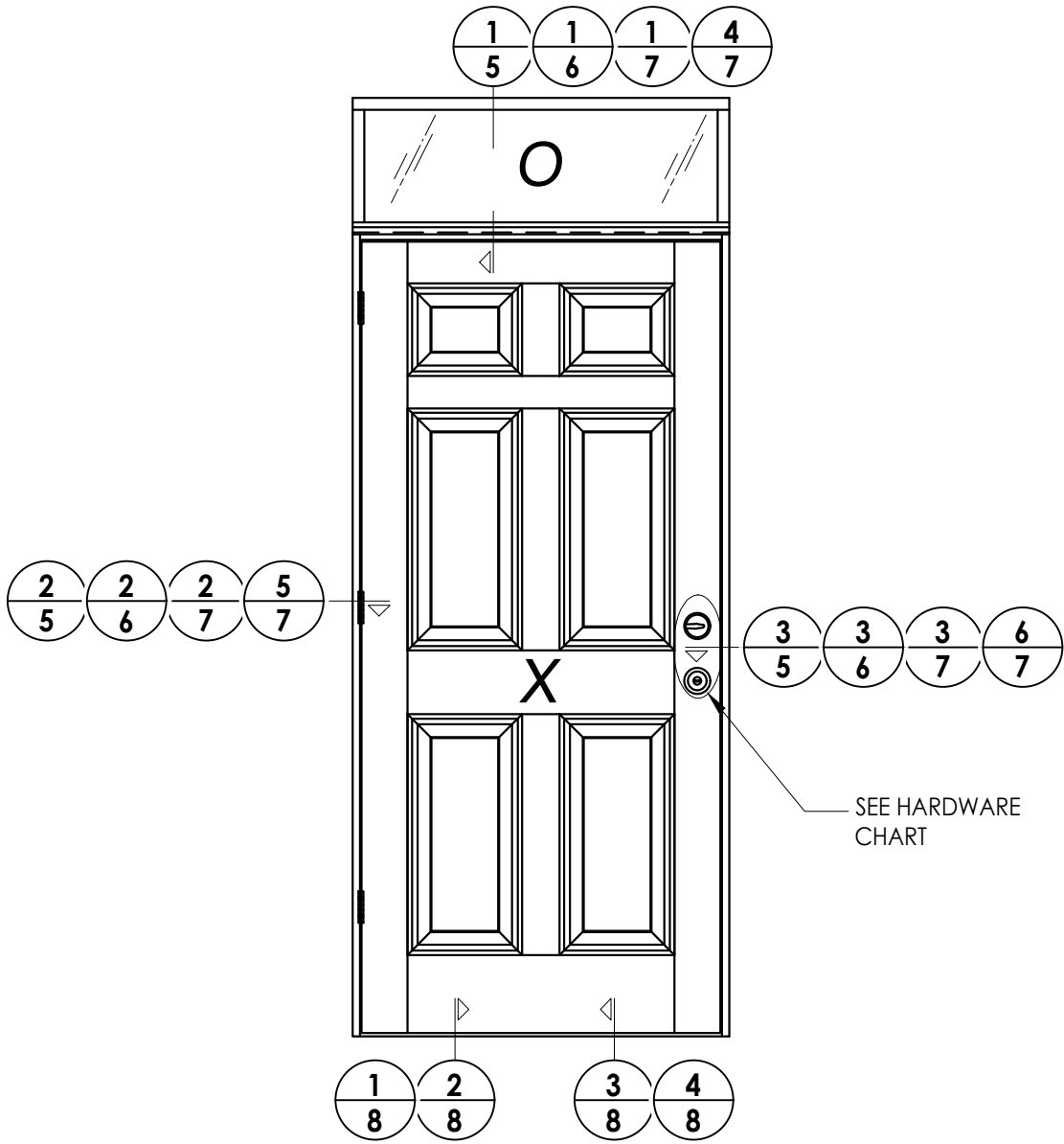
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

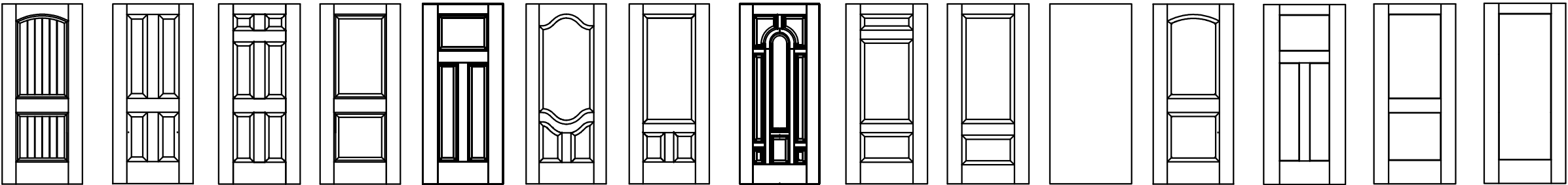
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Phone No.: 813.659.9197
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PART OR ASSEMBLY:
TRANSOM
DETAILS

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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 : MPDGART (3 pt. Manual Tongue)	



Fiber-Classic/Smooth-Star Door Panel Options
Products approved include all embossed and recessed panel doors.
Similar opaque panel configurations are allowed.
Panels shown are for illustration and are representative only.

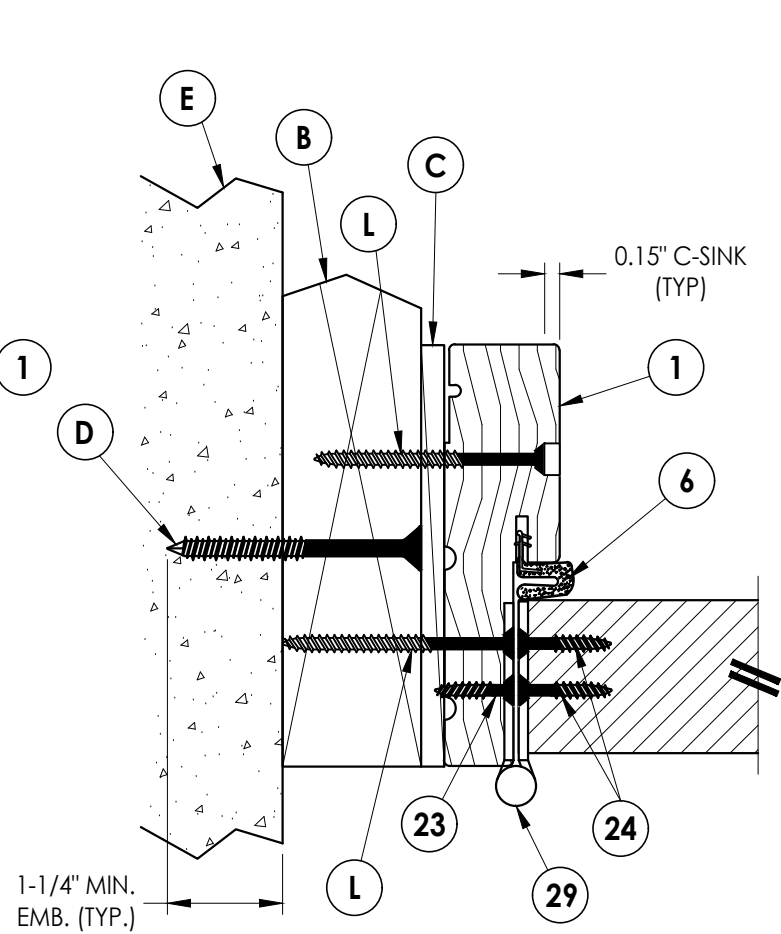
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		DATE	BY	JK	LFS
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4	7/21/20	UPDATE TO 7th ED. (2020)	FBC	LFS	
3	10/09/18	REV. DOOR PANEL OPTION NOTE	MT	MT	
2	11/15/17	RECESSED PANEL NOTATION	JK	JK	
1	7/7/17	UPDATE TO 6th ED. (2017)	FBC	JK	
DATE: 5/26/16					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-20461.17					
SHEET 4 OF 12					

PRODUCT:	THERMA TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	ELEVATIONS

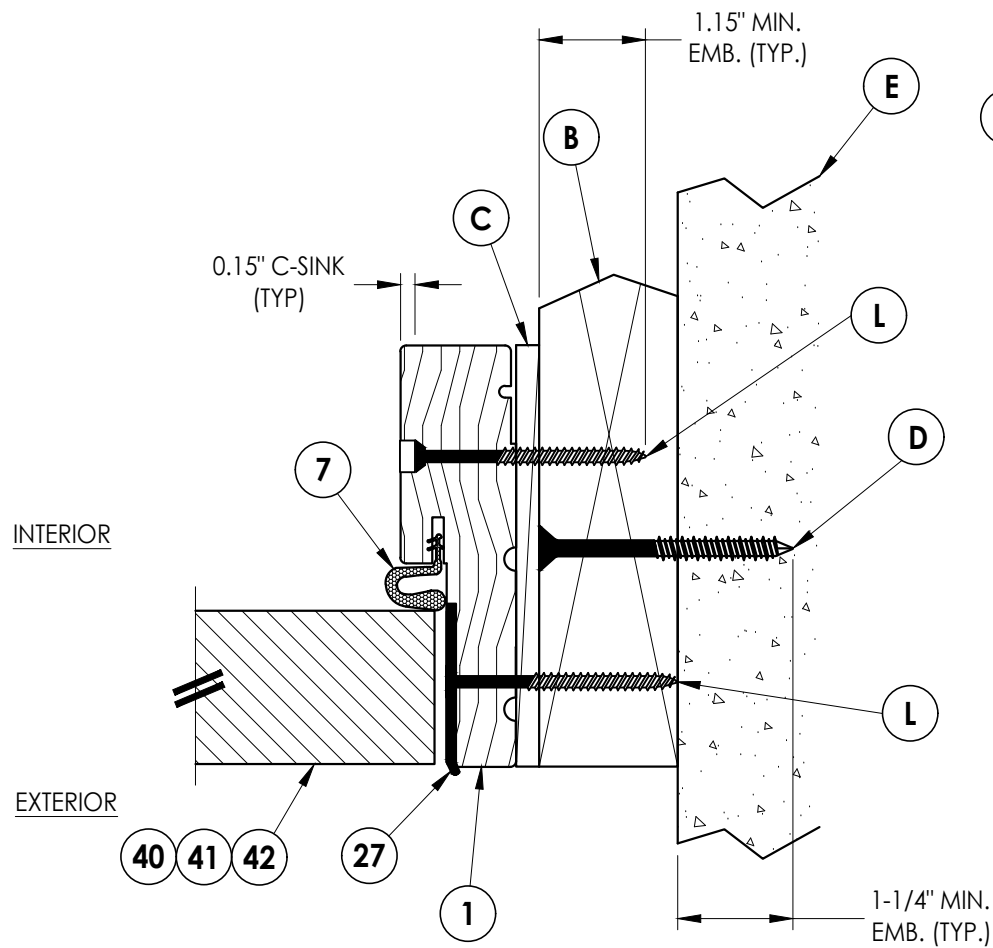
Documents Prepared By:
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P.E. No. 43409

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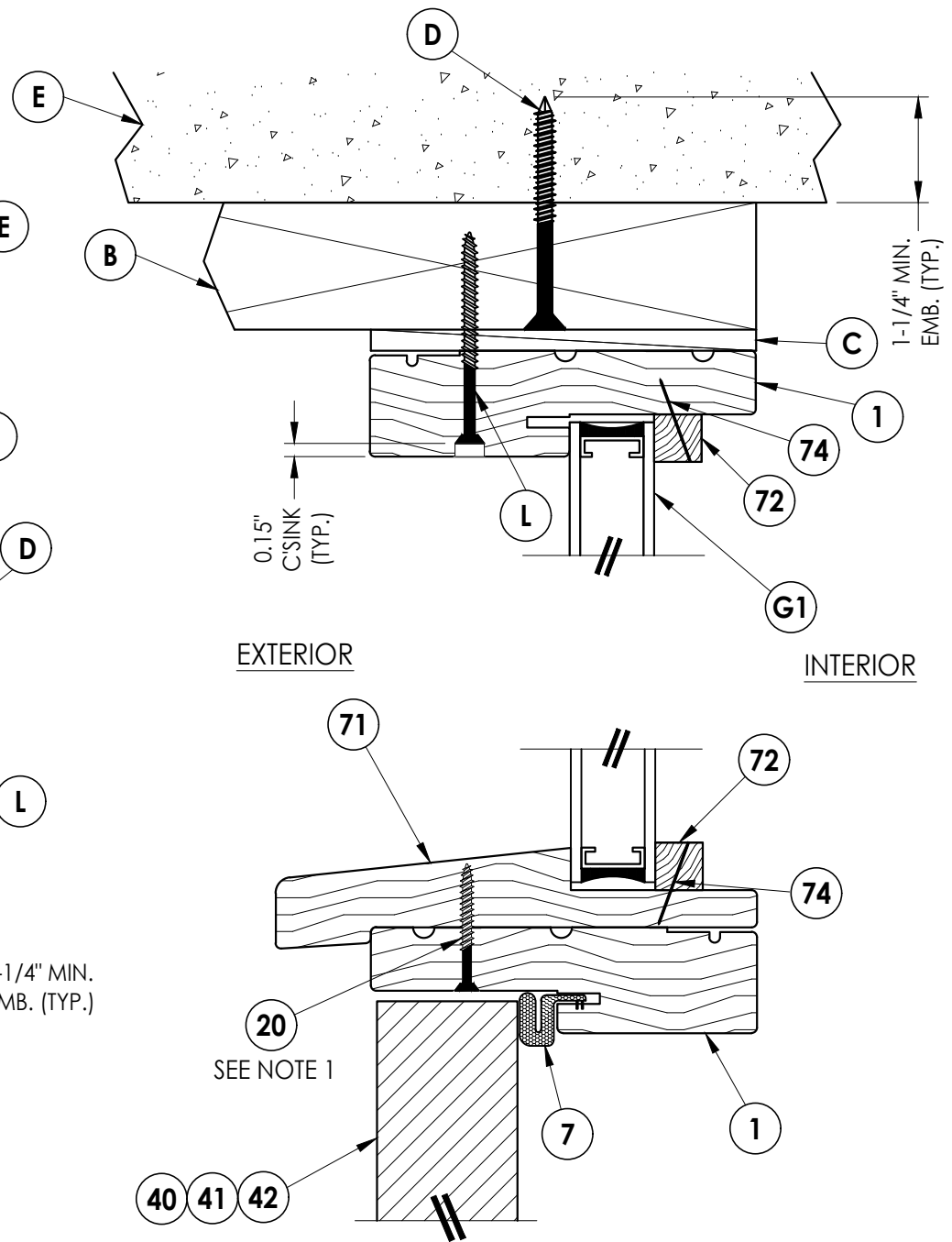
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2 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck
Outswing shown (Inswing similar)



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



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

NOTE:

1. Transom sill attached to door header w/ (6) item #20 or #21 spaced 6" o.c.

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

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

NO.	DATE	REVISIONS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC
4	7/21/20	UPDATE TO 7th ED (2020) FBC
3	10/09/18	REV. DOOR PANEL OPTION NOTE
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6th ED (2017) FBC

DATE: 5/26/16

SCALE: N.T.S.

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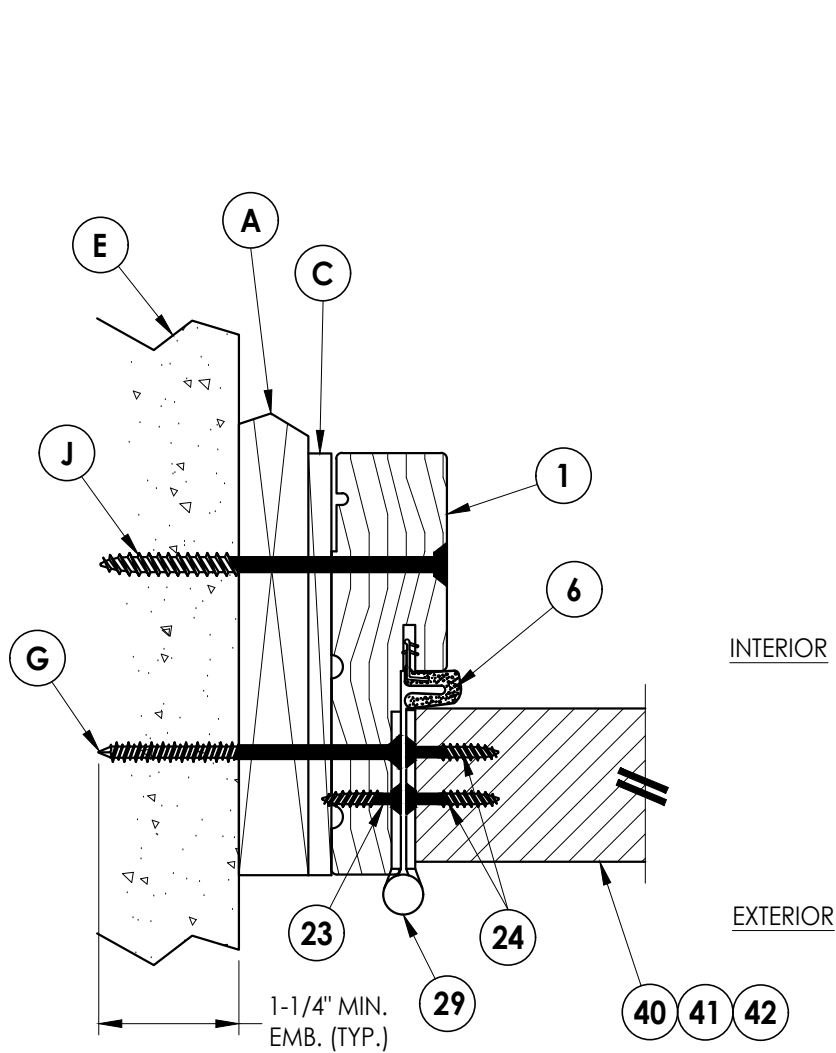
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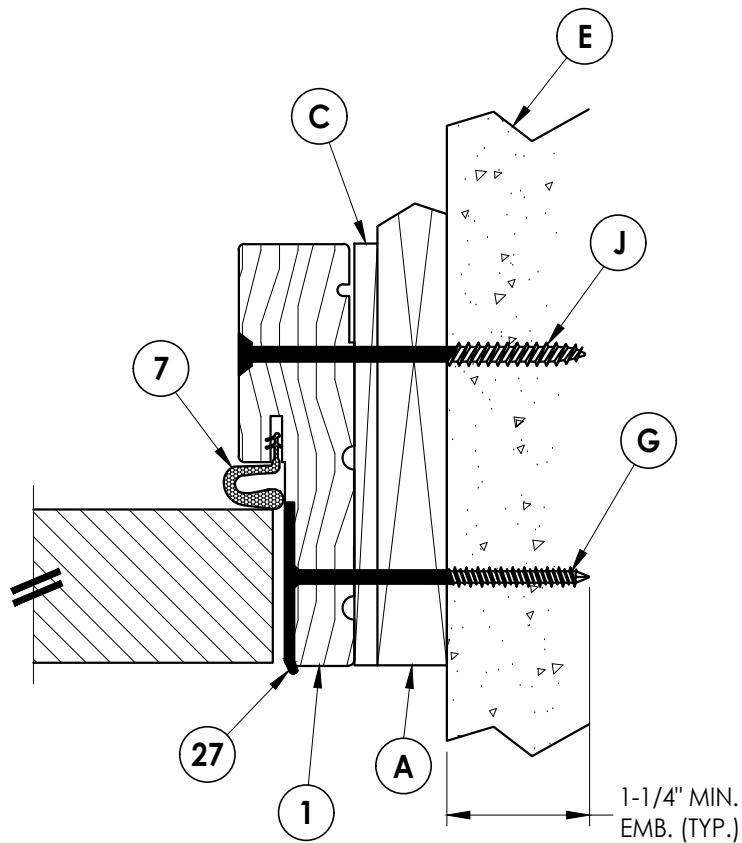
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SHEET 5 OF 12

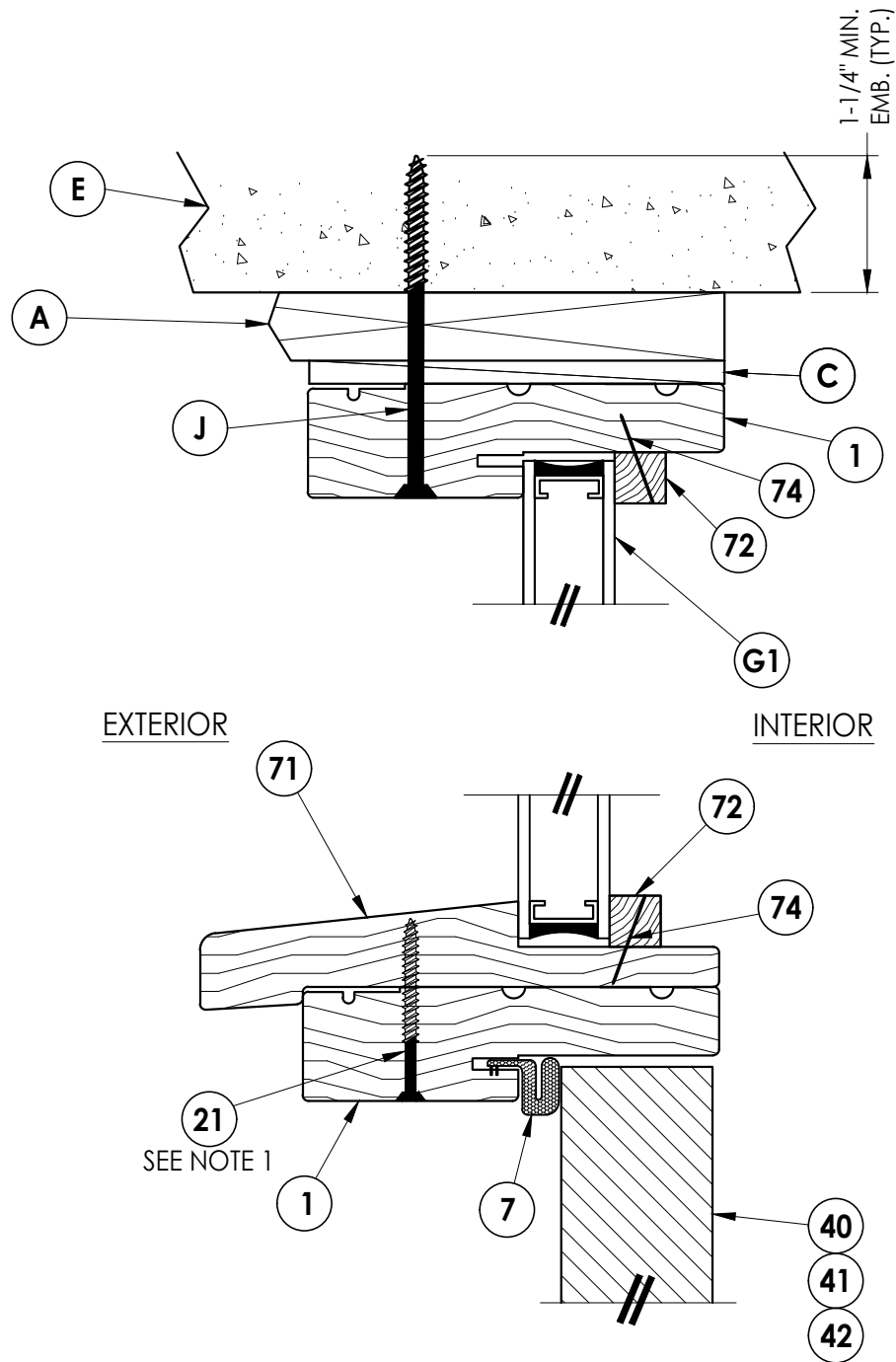
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2 **HORIZONTAL CROSS SECTION**
6 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3 **HORIZONTAL CROSS SECTION**
6 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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

NOTE:
1. Transom sill attached to door header w/ (6) item #20 or #21 spaced 6" o.c.

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)

NO.	DATE	REVISIONS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC
4	7/21/20	UPDATE TO 7th ED (2020) FBC
3	10/09/18	REV. DOOR PANEL OPTION NOTE
2	11/15/17	RECESSED PANEL NOTATION
1	7/7/17	UPDATE TO 6th ED (2017) FBC
NO.	DATE	BY

DATE: 5/26/16

SCALE: N.T.S.

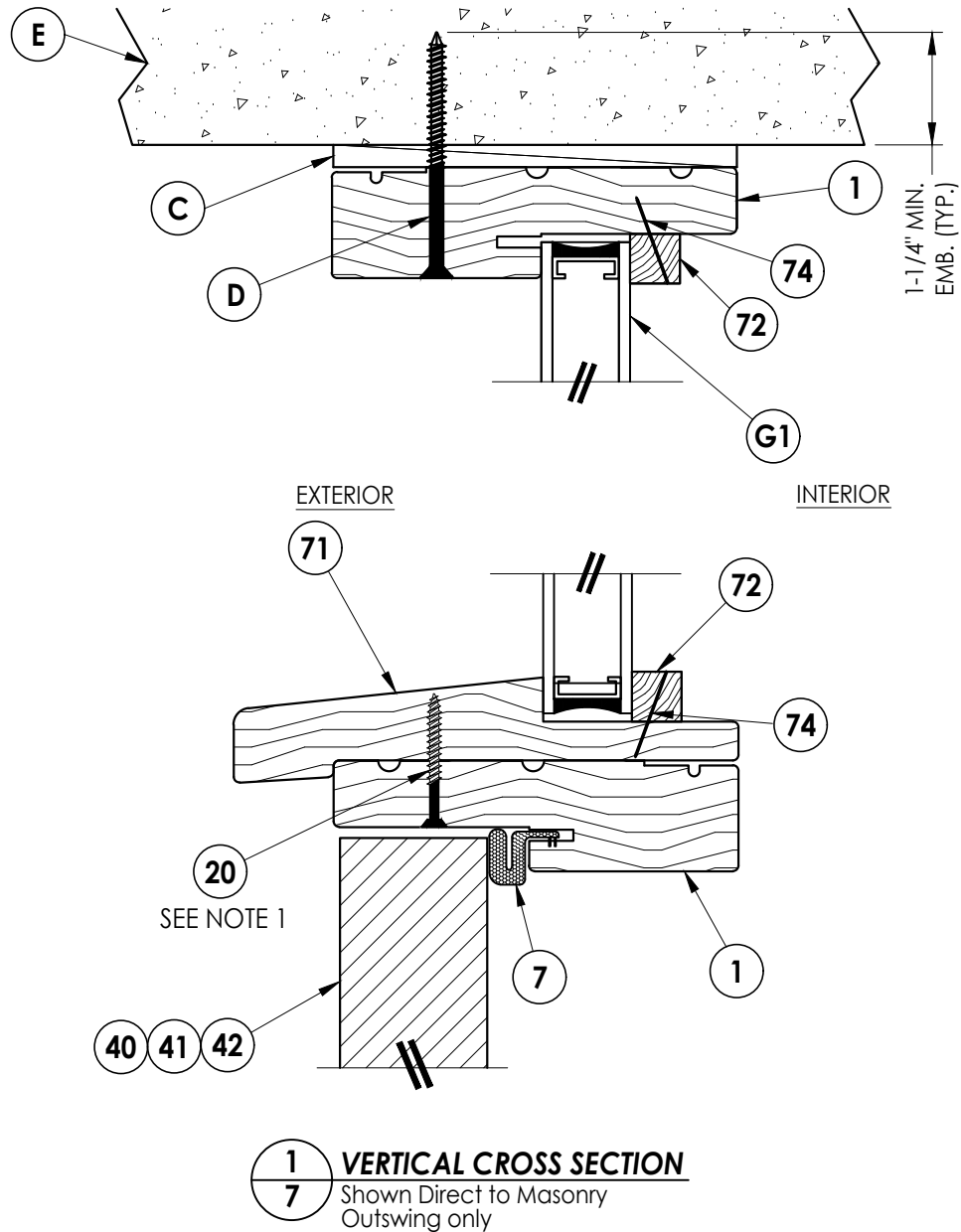
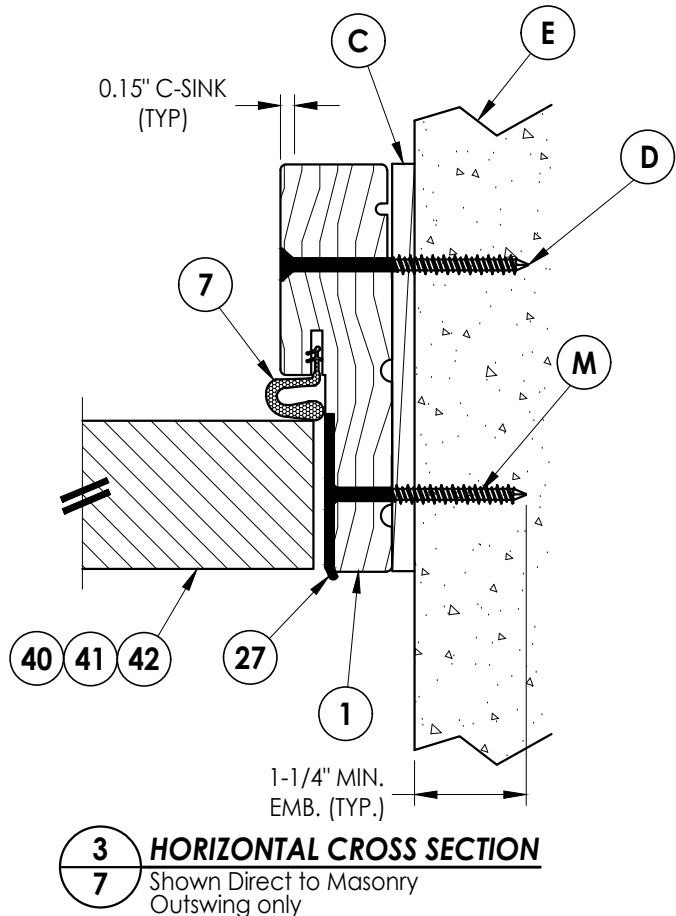
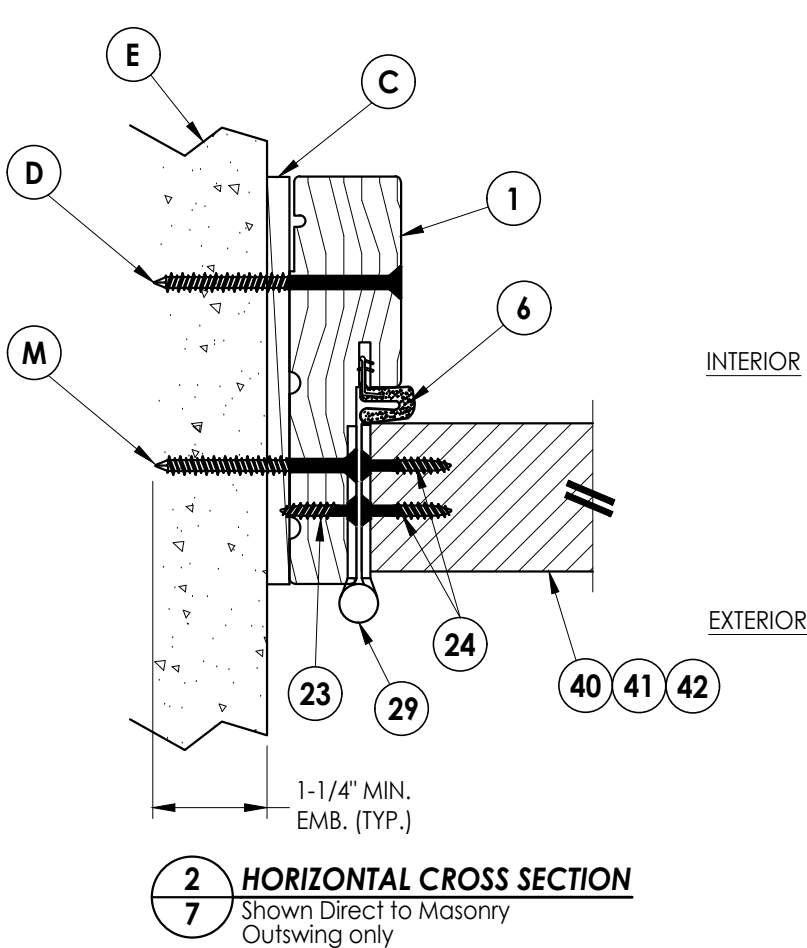
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CHK. BY: LFS

DRAWING NO.:
FL-20461.17

SHEET 6 OF 12

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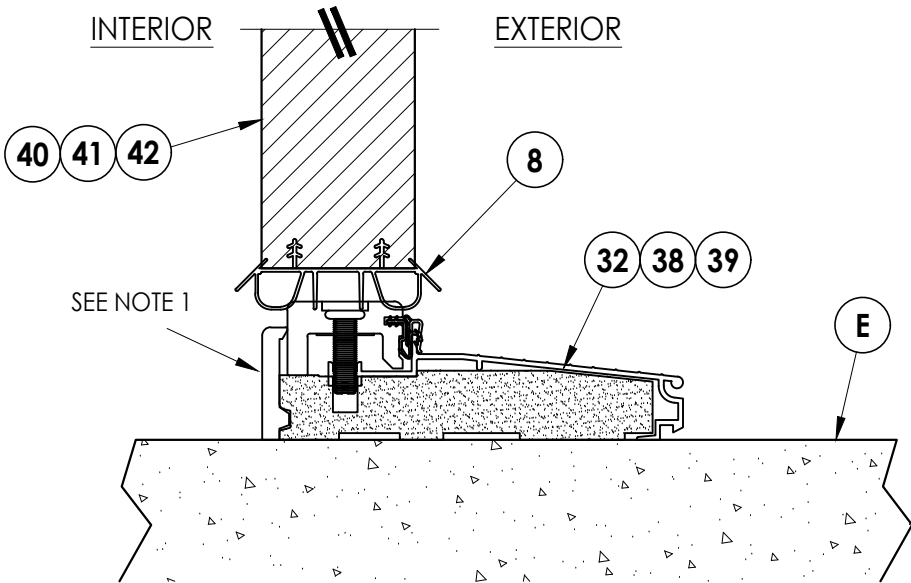


NOTE:
1. Transom sill attached to door header w/ (6) item #20 or #21 spaced 6" o.c.

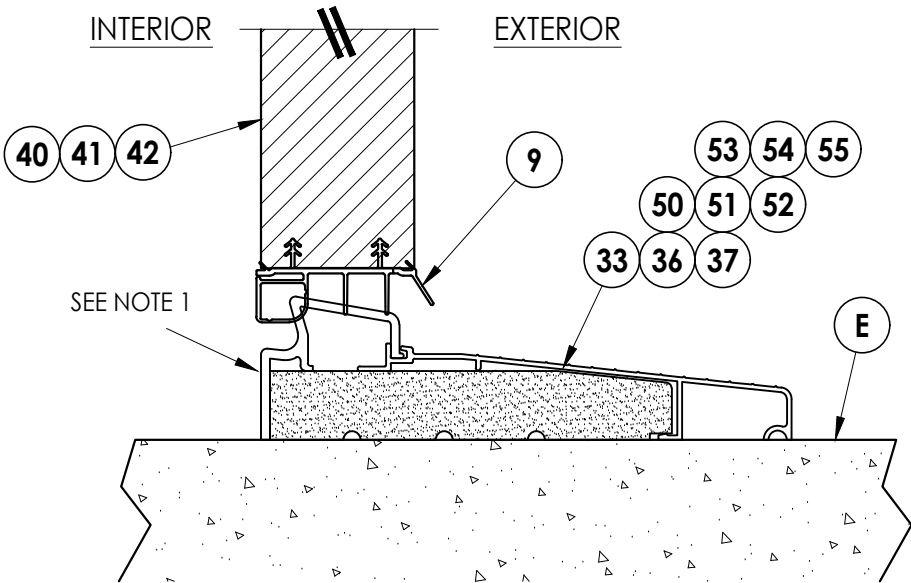
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA TRU FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (DIRECT TO MASONRY)	
5	7/19/23	UPDATE TO 8TH ED. (2023)	FBC
4	7/21/20	UPDATE TO 7th ED (2020)	FBC
3	10/09/18	REV. DOOR PANEL OPTION	NOTE
2	11/15/17	RECESSED PANEL NOTATION	JK
1	7/7/17	UPDATE TO 6th ED (2017)	FBC
NO.	DATE	REVISIONS	
DATE: 5/26/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20461.17			
SHEET 7 OF 12			

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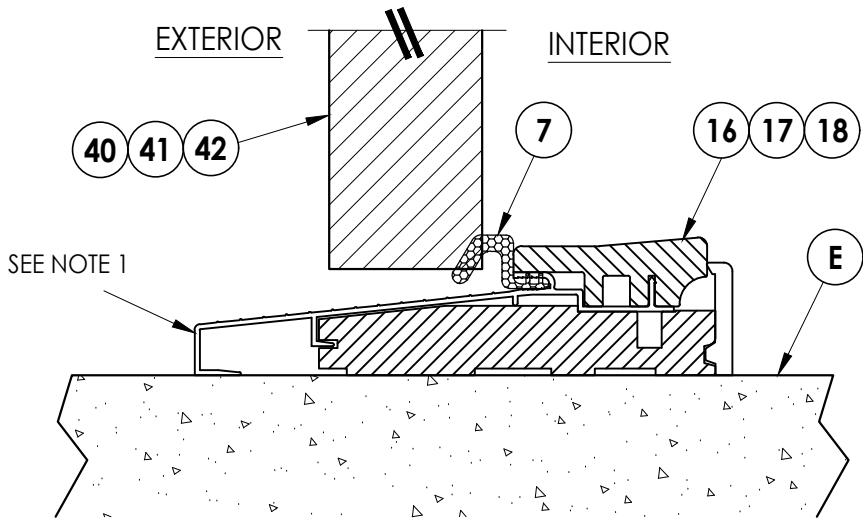
- Notes:
- 1. Sill Item #'s 16, 32, 33, 36, 37, 38, 39, 50, 51, 52, 53, 54 & 55 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws or (3) 2.5" staples at each end.
 - 2. Sill Item #'s 17 & 18 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
 - 3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



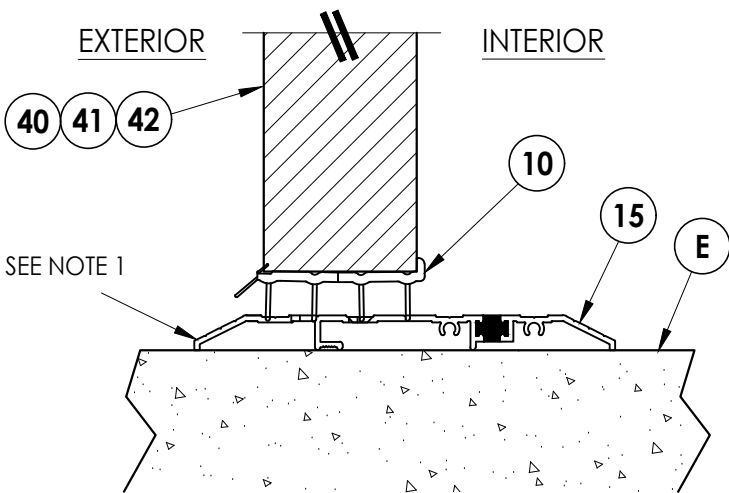
1
8 **VERTICAL CROSS SECTION**
Inswing Sill



2
8 **VERTICAL CROSS SECTION**
Inswing Sill



3
8 **VERTICAL CROSS SECTION**
Outswing Sill



4
8 **VERTICAL CROSS SECTION**
Public Access Sill

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

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
5	7/19/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/21/20	UPDATE TO 7th ED (2020) FBC LFS
3	10/09/18	REV. DOOR PANEL OPTION NOTE MT
2	11/15/17	RECESSED PANEL NOTATION JK
1	7/7/17	UPDATE TO 6th ED (2017) FBC JK

DATE: 5/26/16

SCALE: N.T.S.

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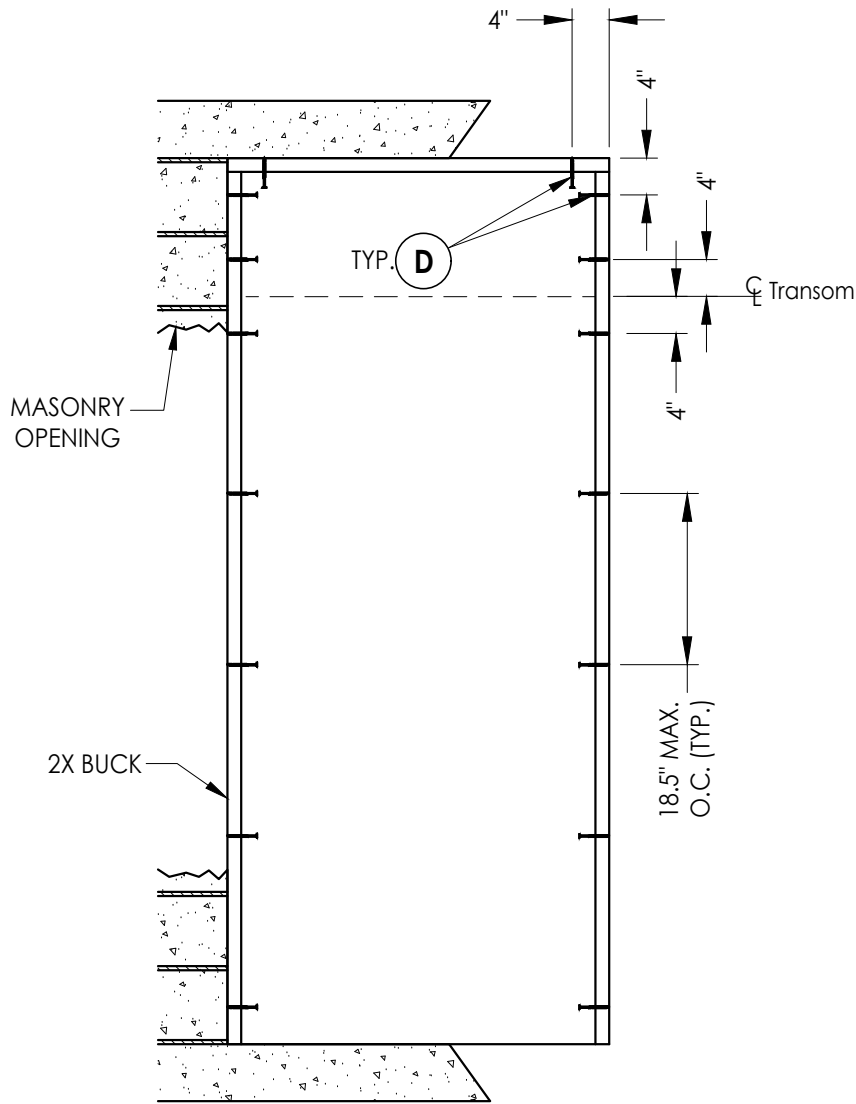
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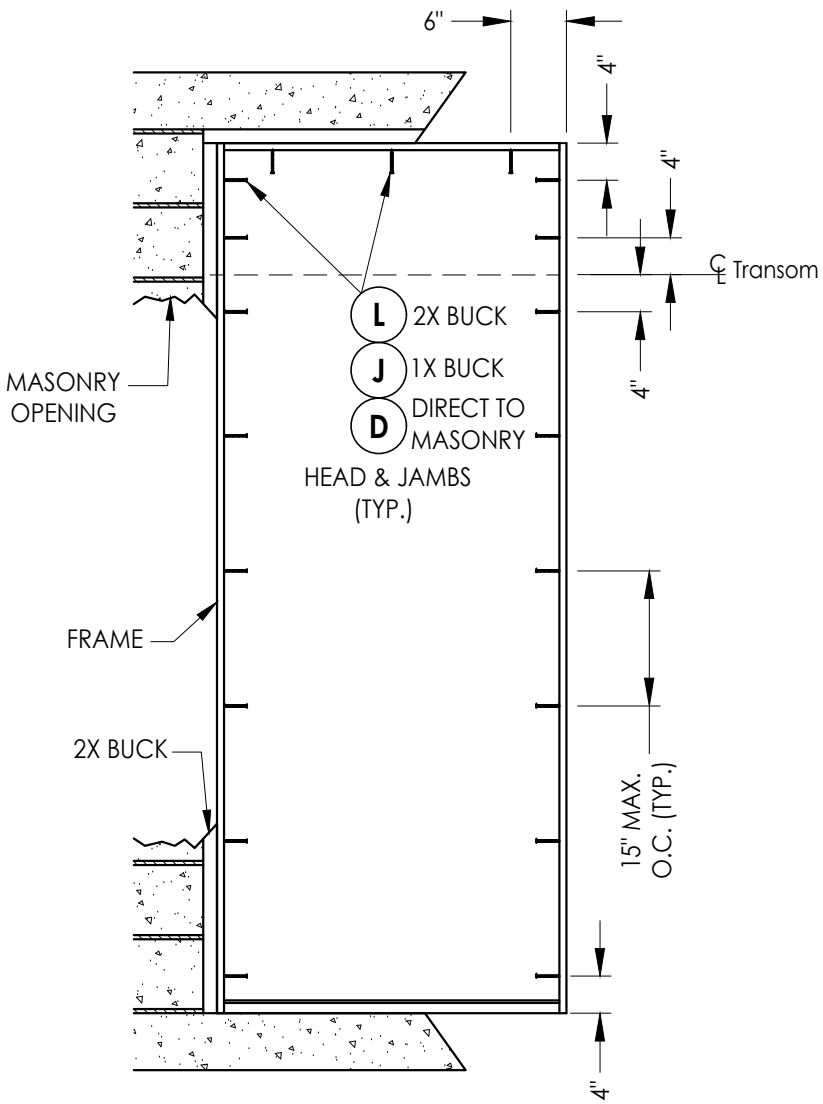
FL-20461.17

SHEET 8 OF 12

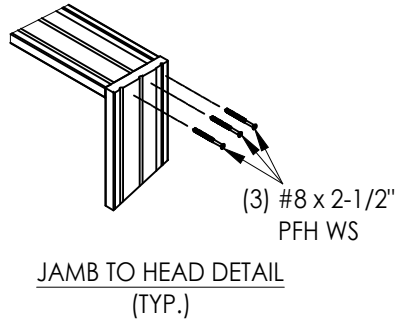
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2X BUCK ANCHORING



FRAME ANCHORING



5	7/19/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	7/21/20	UPDATE TO 7th ED (2020)	FBC	LFS
3	10/09/18	REV. DOOR PANEL OPTION NOTE	MT	MT
2	11/15/17	RECESSED PANEL NOTATION	JK	JK
1	7/7/17	UPDATE TO 6th ED (2017)	FBC	JK
NO.	DATE			BY
REVISIONS				

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20461.17

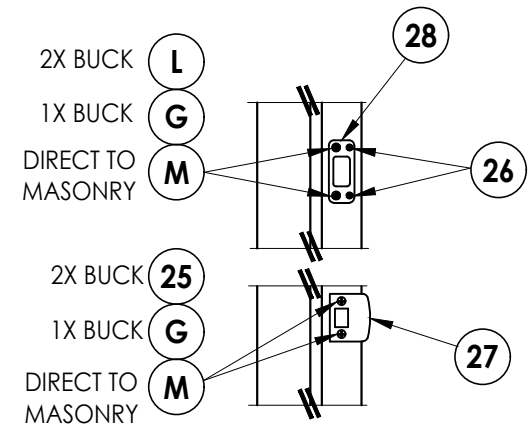
SHEET 9 OF 12

PRODUCT:	THERMA TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	BUCK & FRAME ANCHORING

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

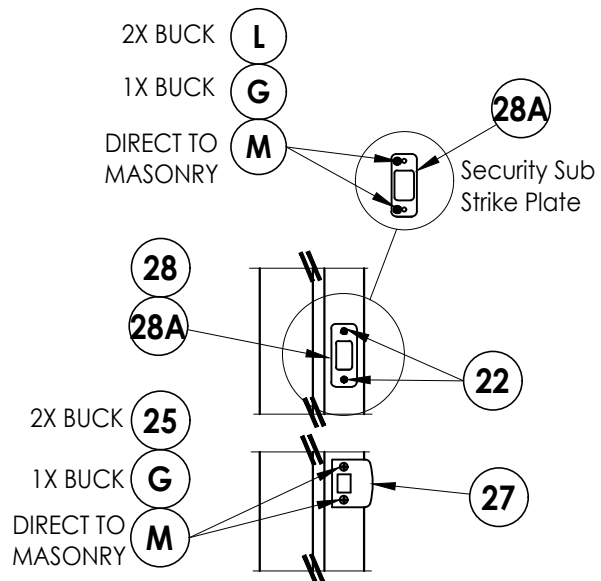
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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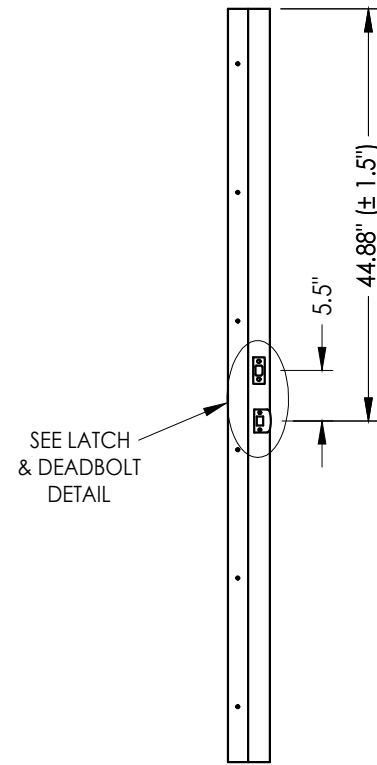
LATCH & DEADBOLT DETAIL

Kwikset



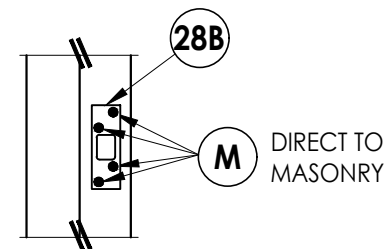
LATCH & DEADBOLT DETAIL

Schlage



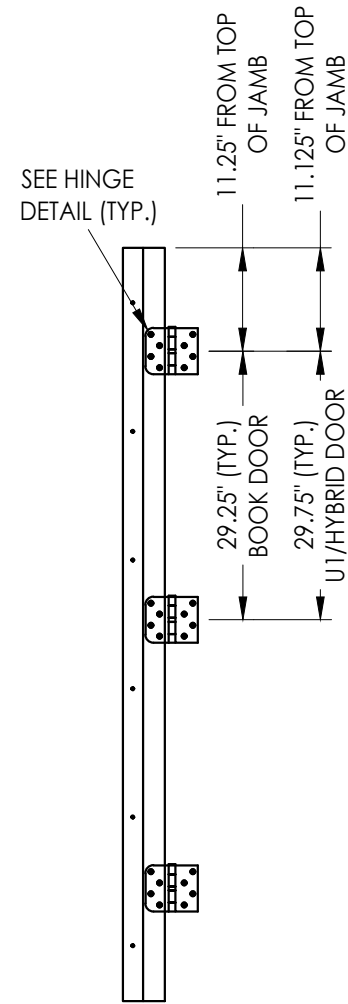
STRIKE JAMB

Latch and Deadbolt

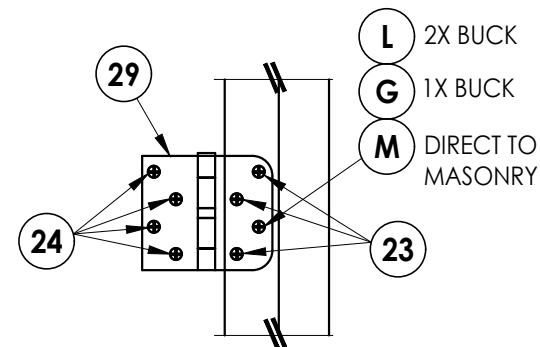


DEADBOLT STRIKE DETAILS

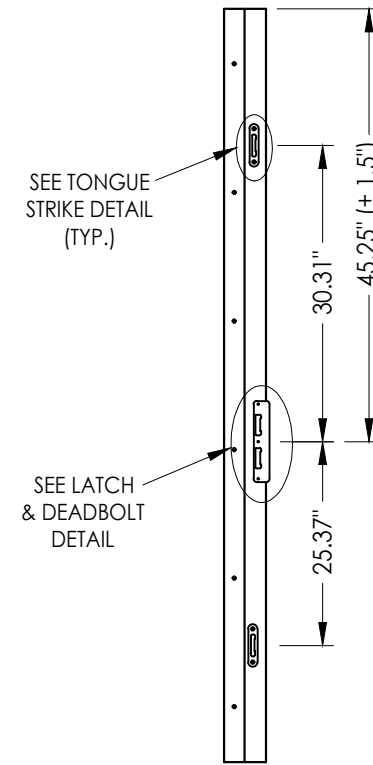
(Security Deadbolt Strike Plate)



HINGE JAMB

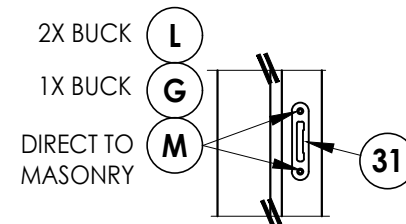


HINGE DETAIL



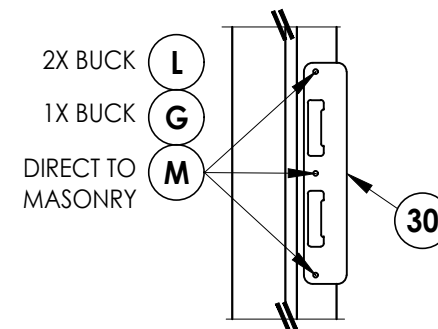
STRIKE JAMB

Multipoint Lock



TONGUE STRIKE DETAIL

Multipoint Lock



LATCH & DEADBOLT DETAIL

Multipoint Lock

MULTIPOINT LOCK STRIKE DETAILS

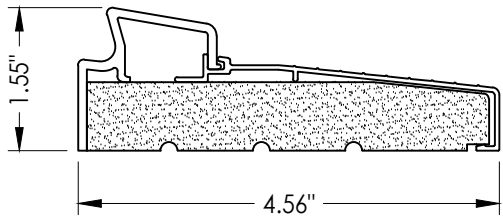
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3	10/09/18	REV. DOOR PANEL OPTION NOTE	MT
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DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20461.17
SHEET	10 OF 12

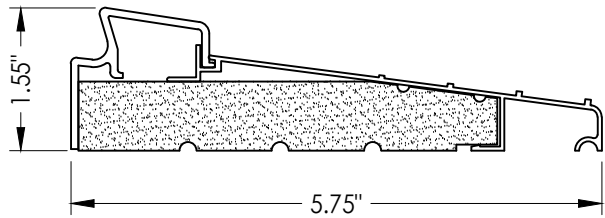
PRODUCT:		THERMA TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HARDWARE DETAILS	

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	

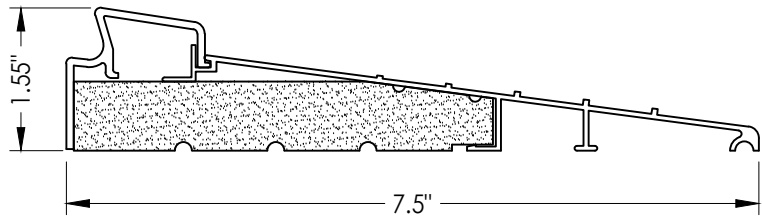
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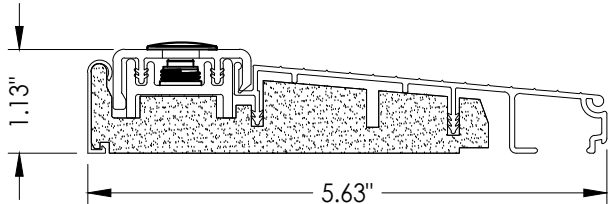
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



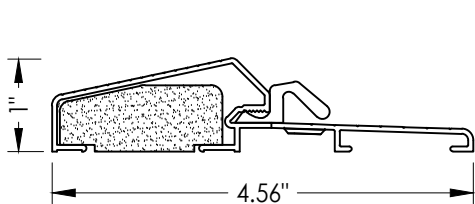
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



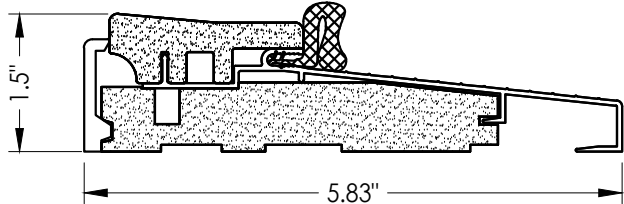
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



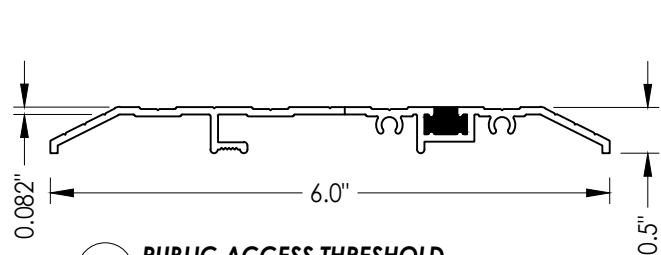
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



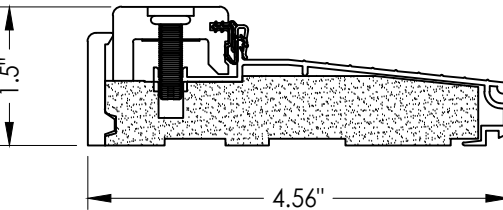
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



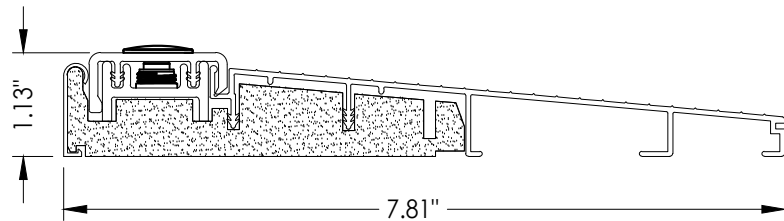
16 OUTSWING THRESHOLD
Composite / Aluminum Sill



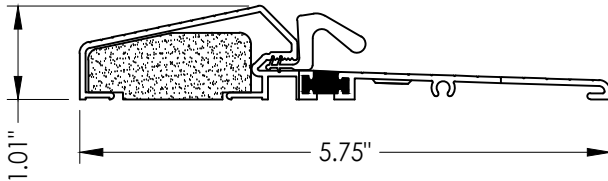
15 PUBLIC ACCESS THRESHOLD



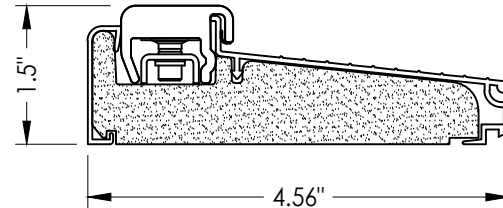
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



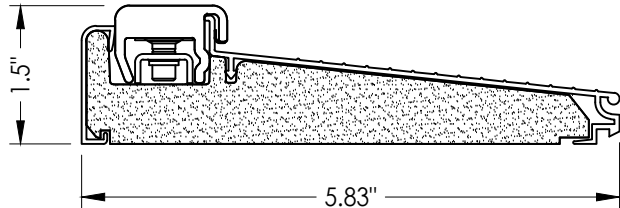
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



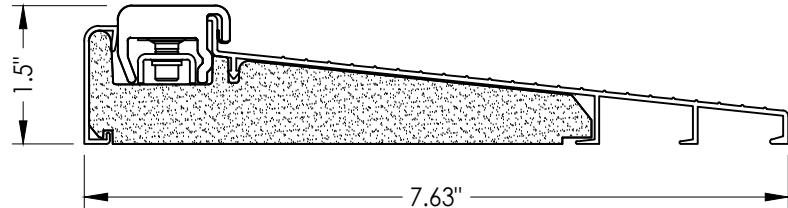
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



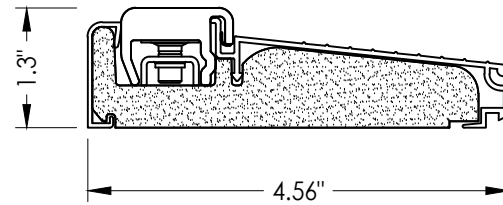
50 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



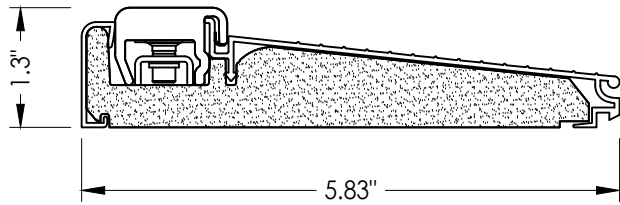
51 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



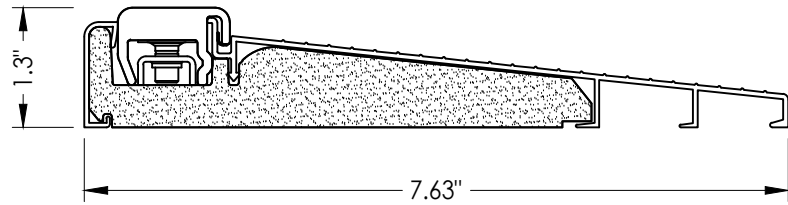
52 INSWING THRESHOLD
Inswing Composite Adjustable Sill
Book, Hybrid



53 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



54 INSWING THRESHOLD
Inswing Composite Adjustable Sill
U1



55 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	CHK	APP
5	7/19/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
4	7/21/20	UPDATE TO 7th ED (2020)	FBC	LFS	
3	10/09/18	REV. DOOR PANEL OPTION	NOTE	MT	
2	11/15/17	RECESSED PANEL NOTATION		JK	
1	7/7/17	UPDATE TO 6th ED (2017)	FBC	JK	

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20461.17

SHEET 11 OF 12

Z:\2023 FBC Drawings\Therma-Tru\FL-20461 R9\FL-20461.17-18.dwg

BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	27	LATCH STRIKE PLATE	STEEL
C	1/4" MAX. SHIM SPACE	-	28	DEADBOLT STRIKE PLATE (STANDARD)	STEEL
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	28A	DEADBOLT SUB STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28B	DEADBOLT STRIKE PLATE (SECURITY)	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
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	32	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	34	INSWING THRESHOLD	ALUM/COMP
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	35	INSWING THRESHOLD	ALUM/COMP
7	WEATHERSTRIP (LONG REACH)	FOAM	36	INSWING THRESHOLD	ALUM/COMP
8	SWEEP	VINYL	37	INSWING THRESHOLD	ALUM/COMP
9	SWEEP (USE w/ INSWING BASIC FIXED SILL)	VINYL	38	INSWING THRESHOLD	ALUM/COMP
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	39	INSWING THRESHOLD	ALUM/COMP
15	ADA THRESHOLD	ALUM	40	DOOR PANEL (BOOK)	-
16	OUTSWING THRESHOLD	ALUM/COMP	41	DOOR PANEL (HYBRID)	-
17	OUTSWING THRESHOLD	ALUM/COMP	42	DOOR PANEL (U1)	-
18	OUTSWING THRESHOLD	ALUM/COMP	50	INSWING THRESHOLD	ALUM/COMP
20	#8 X 1.5" PFH WOOD SCREW	STEEL	51	INSWING THRESHOLD	ALUM/COMP
21	#8 X 2" PFH WOOD SCREW	STEEL	52	INSWING THRESHOLD	ALUM/COMP
22	#8 x 3/4" PFH WOOD SCREW	STEEL	53	INSWING THRESHOLD	ALUM/COMP
23	#10 x 3/4" PFH WOOD SCREW	STEEL	54	INSWING THRESHOLD	ALUM/COMP
24	#10 x 1" PFH WOOD SCREW	STEEL	55	INSWING THRESHOLD	ALUM/COMP
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL	70	TRANSOM - SEE TRANSOM DETAIL SHEET FOR DETAILS	-
			71	TRANSOM SILL	WOOD
			72	TRANSOM MOLDING	WOOD
			74	8d X 1" BRAD NAIL	STEEL

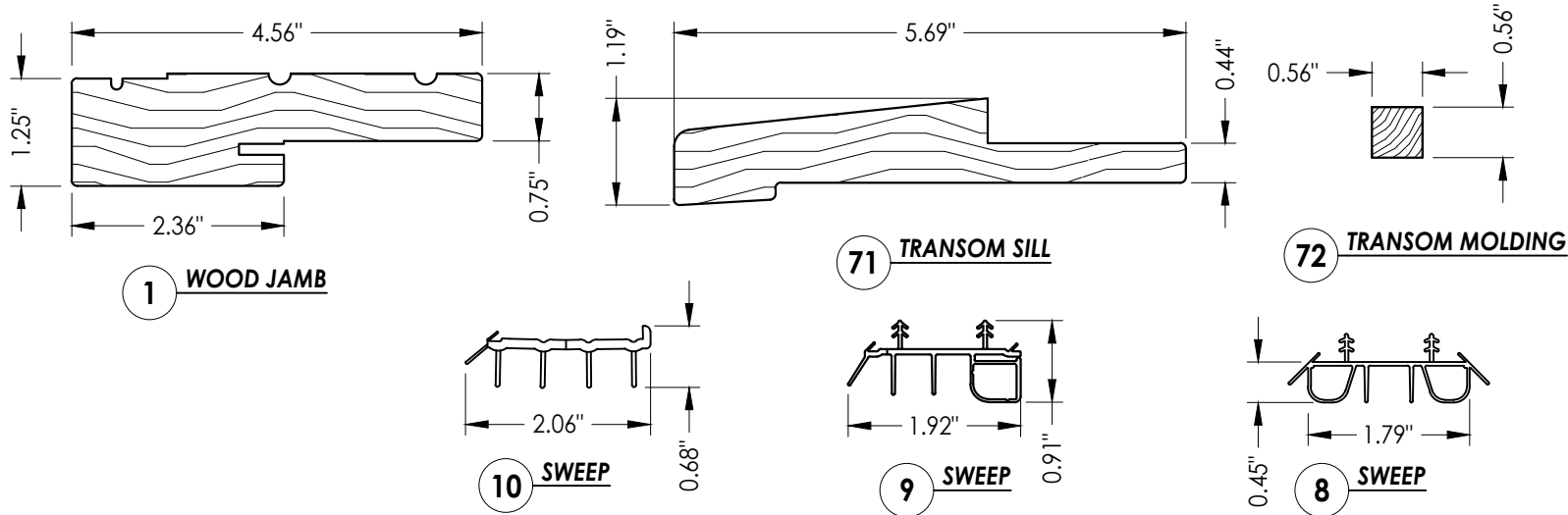
CONCRETE ANCHOR NOTES:

- 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.



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PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
COMPONENTS &
BILL OF MATERIALS

	LFS	FBC	MT	JK	JK	BY
5	7/19/23	UPDATE TO 8TH ED. (2023)	FBC			
4	7/21/20	UPDATE TO 7th ED (2020)	FBC			
3	10/09/18	REV. DOOR PANEL OPTION NOTE				
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	NO.	DATE				

REVISIONS

DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20461.17
SHEET	12 OF 12