

# THERMA-TRU<sup>®</sup> DOORS

Fiber-Classic<sup>®</sup> & Smooth-Star<sup>®</sup>

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

EVALUATED FOR USE IN THE STATE OF TEXAS

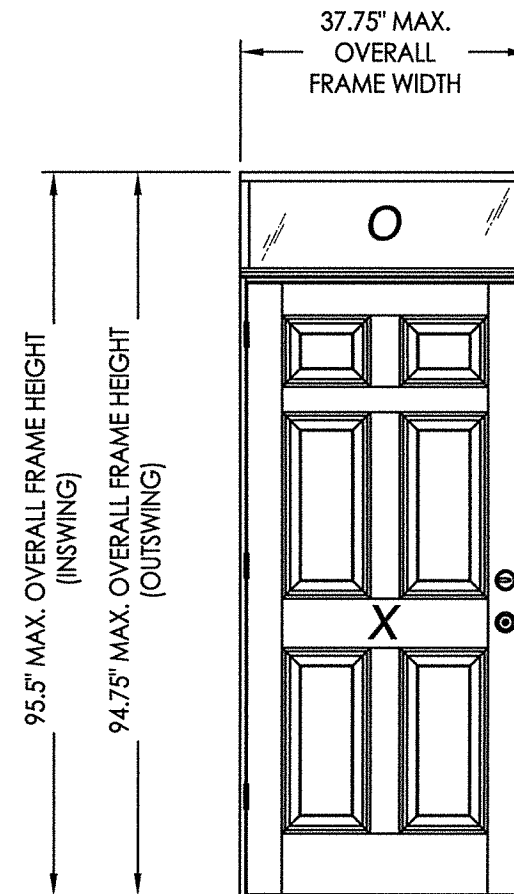
**TDI DR-947**

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.
5. Fiber-Classic and Smooth-Star Door and Sidelite panels require the use of "J" part numbers. These door and sidelite panels must be stained or painted within six months of installation.

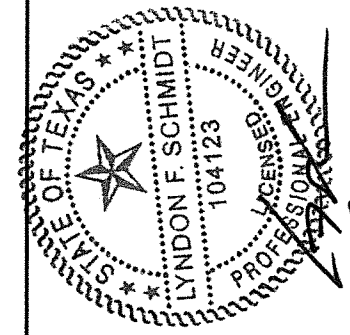
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1	Typical Elevations, Design Pressures & General Notes
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3	Transom Details
4	Elevations
5	Horizontal & Vertical Cross Sections
6	Vertical Cross Sections (Thresholds)
7	Frame Anchoring & Hardware Details
8	Components
9	Bill of Materials



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.  
TEXAS P.E. #104123

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

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR  
PART OR ASSEMBLY:  
TYPICAL ELEVATION, DESIGN  
PRESSURES & GENERAL NOTES

NO.	DATE	BY
1	9/28/21	LFS

DATE: 11/14/17

SCALE: N.T.S.

DWG. BY: JK

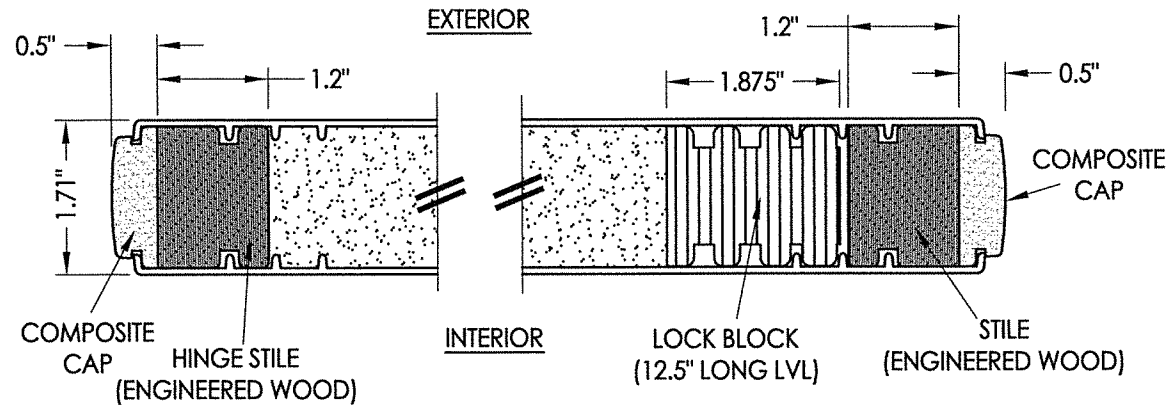
CHK. BY: LFS

DRAWING NO.:

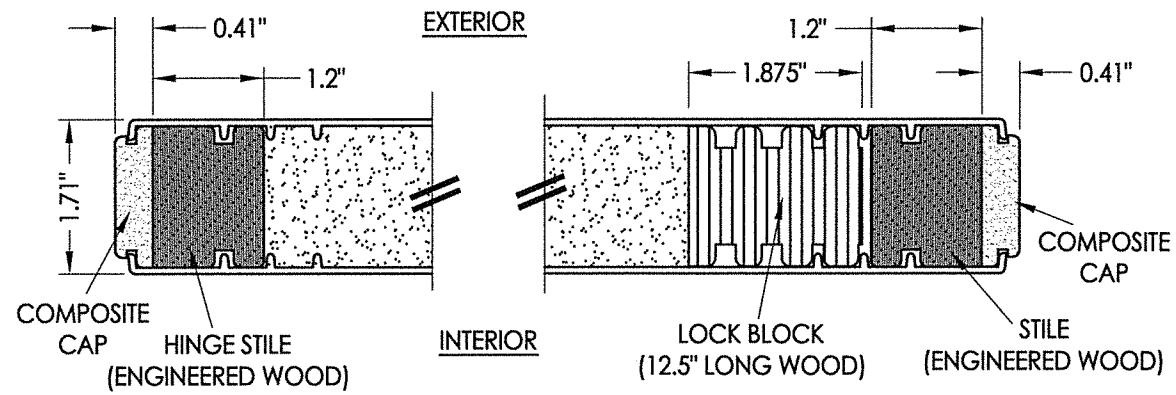
TX-4724

SHEET 1 OF 9

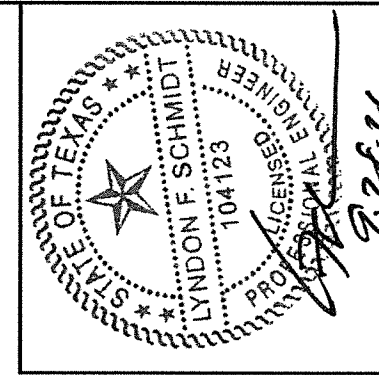
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 947 - 68 & 80 Opaque Comp Edge Non-Impact (TX 4716 - 4727)\C - Drawings\TX-4724-25.dwg



**1**  
**2** **HORIZONTAL CROSS SECTION**



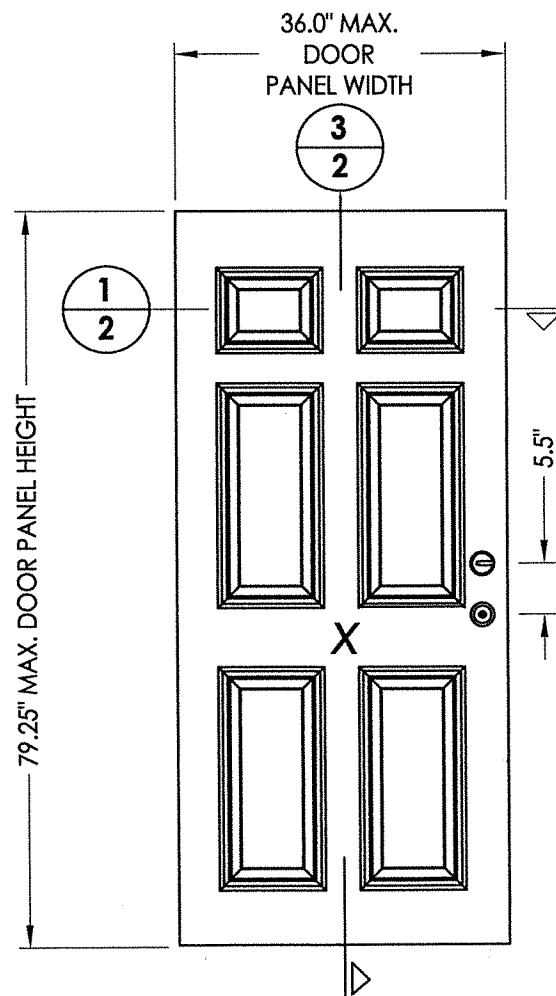
**2**  
**2** **HORIZONTAL CROSS SECTION**



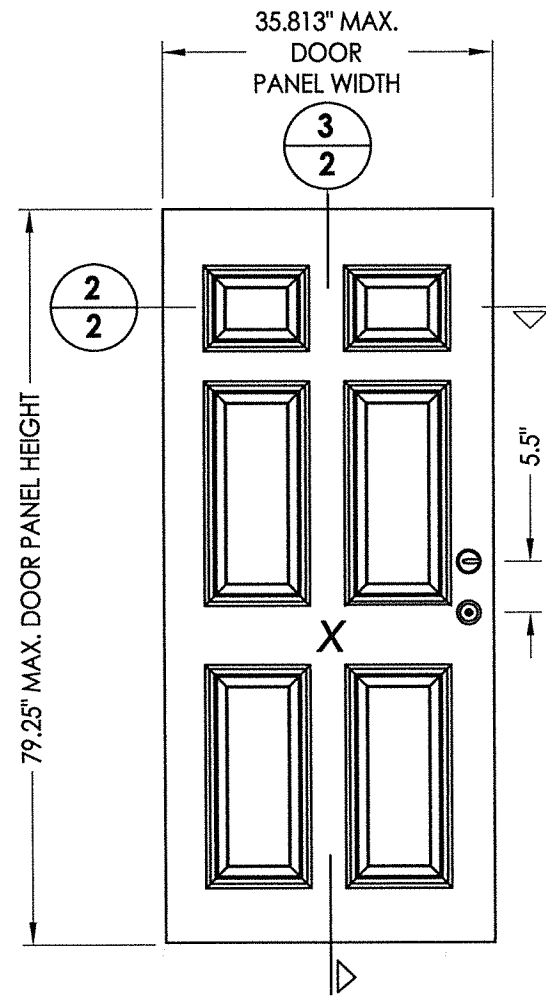
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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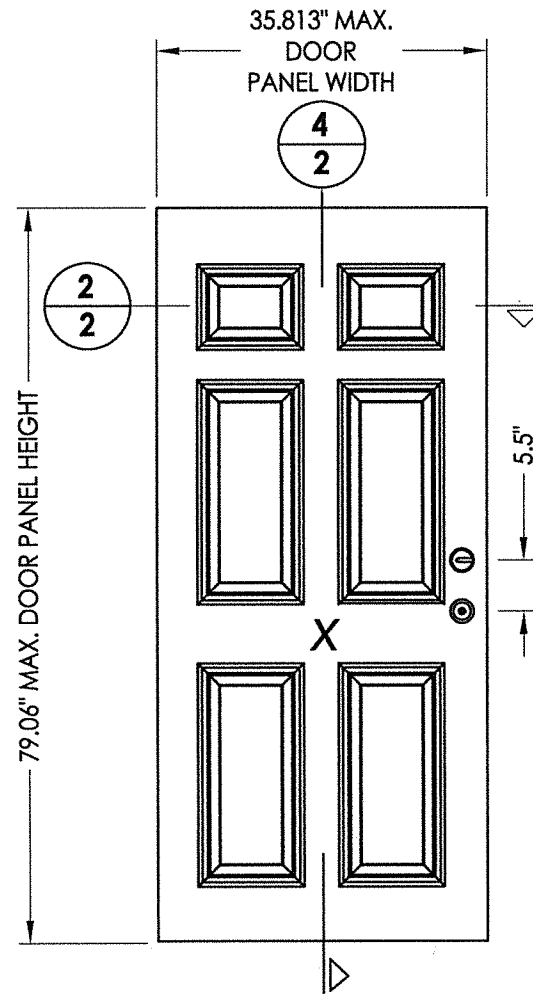
CERTIFICATE OF REGISTRATION # F-11852



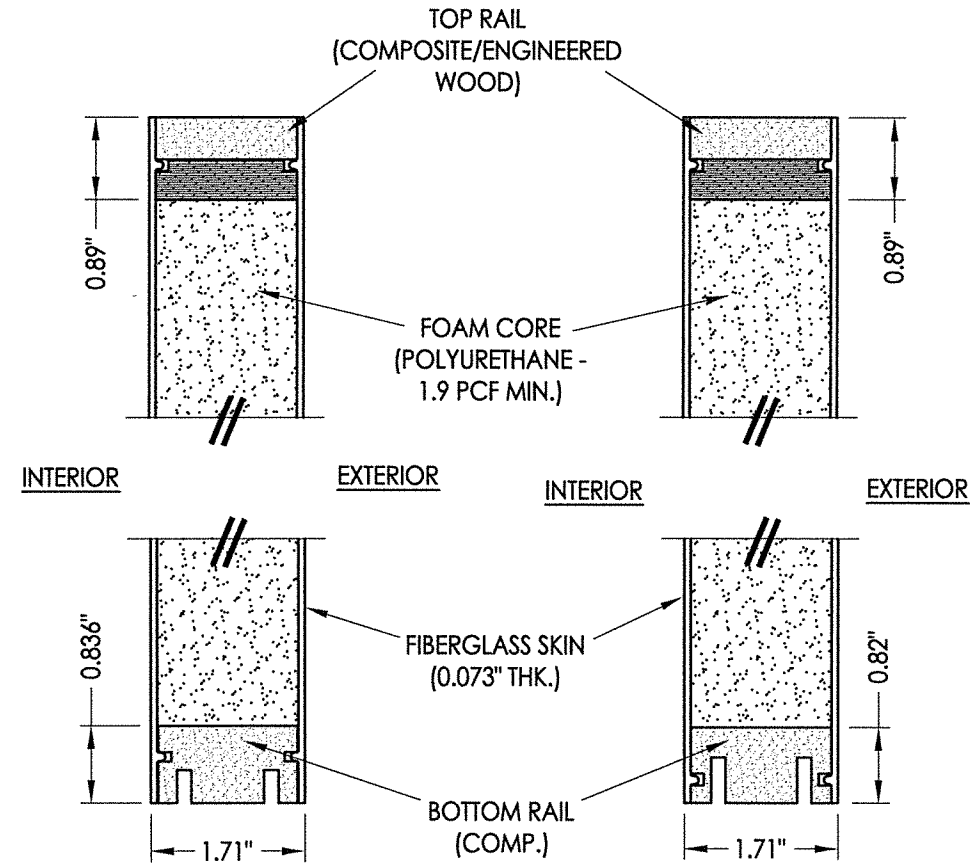
**40** **DOOR PANEL BOOK**



**41** **DOOR PANEL Hybrid Door**



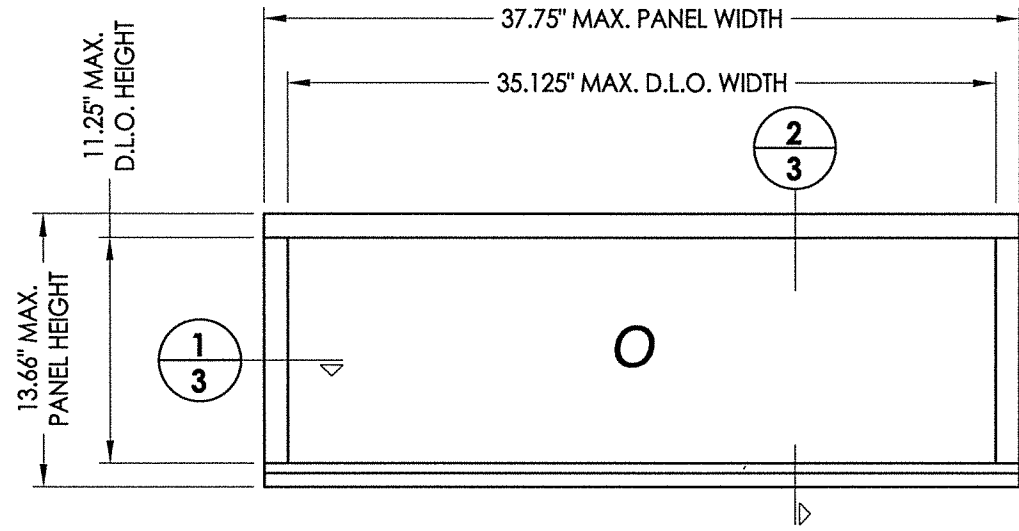
**42** **DOOR PANEL U1 Door**



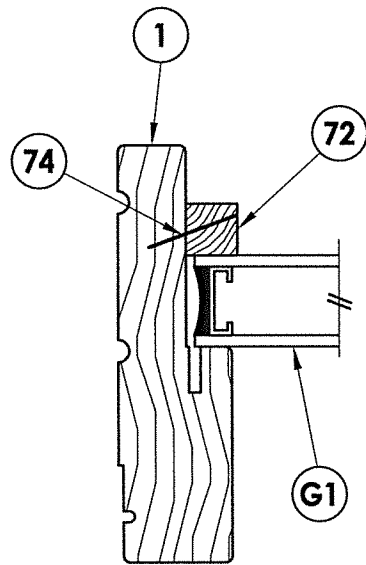
**3**  
**2** **VERTICAL CROSS SECTION**

**4**  
**2** **VERTICAL CROSS SECTION**

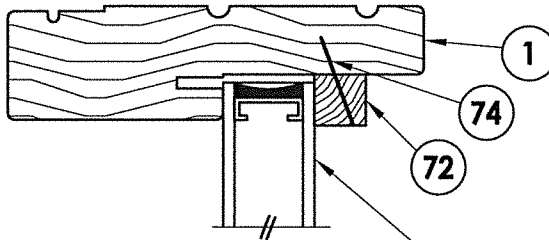
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: DOOR PANEL DETAILS	
NO.	DATE	LFS	BY
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE	
REVISIONS			
DATE: 11/14/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4724			
SHEET 2 OF 9			



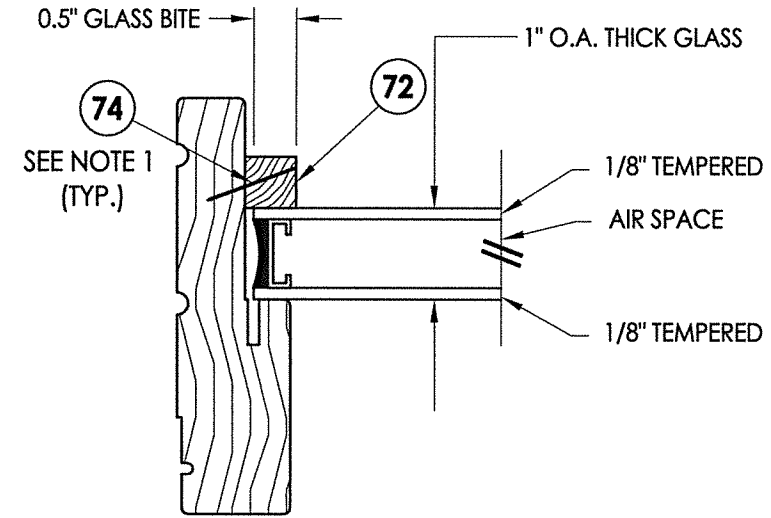
**70** TRANSOM



**1**  
**3** HORIZONTAL CROSS SECTION

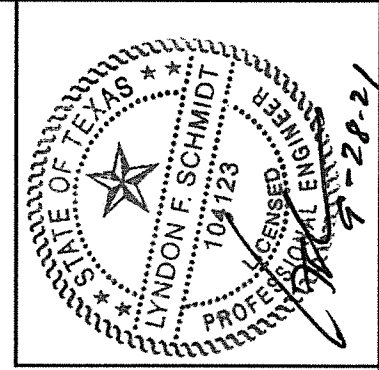


**2**  
**3** VERTICAL CROSS SECTION



**G1** GLAZING DETAIL

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

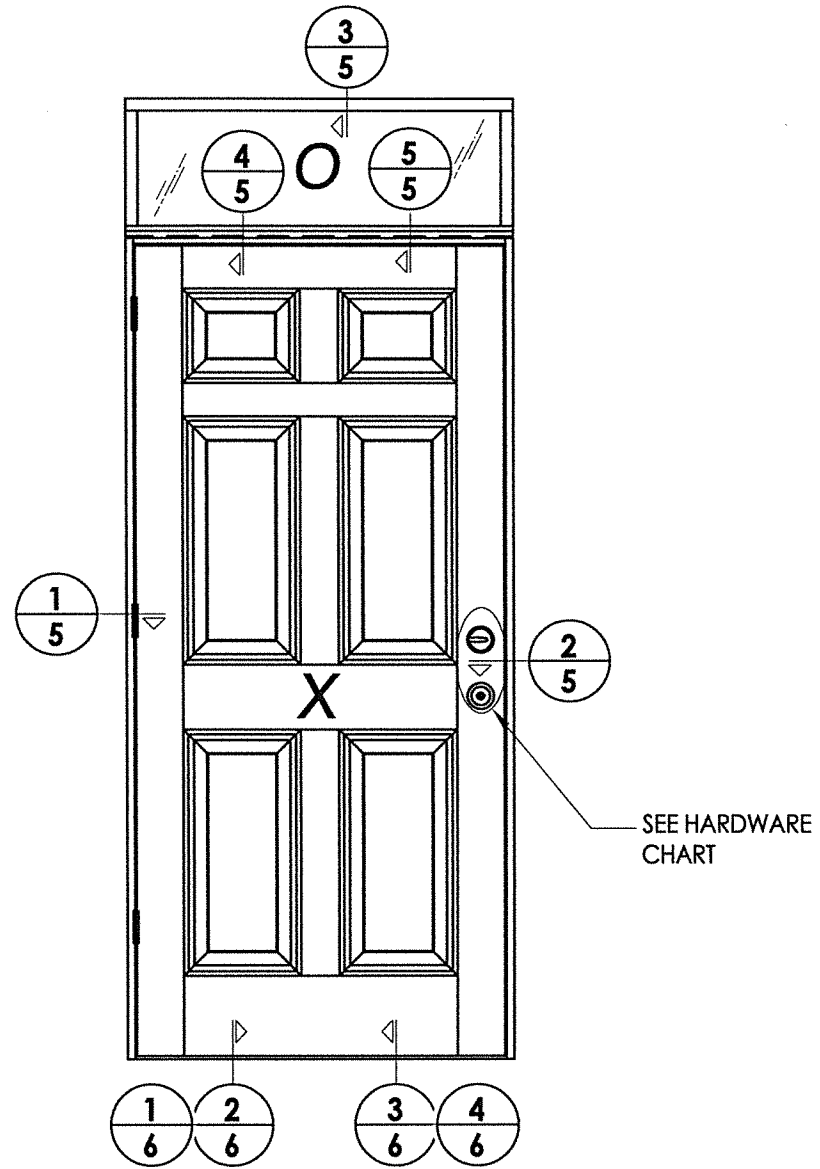


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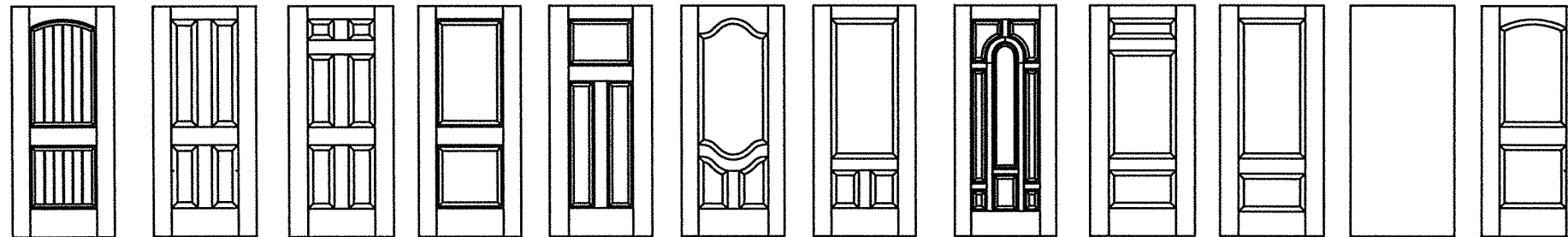
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

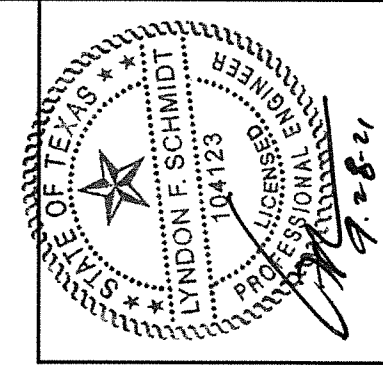
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PART OR ASSEMBLY:		TRANSOM DETAILS	
NO.	DATE	DESCRIPTION	BY
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			
DATE: 11/14/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4724			
SHEET 3 OF 9			



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



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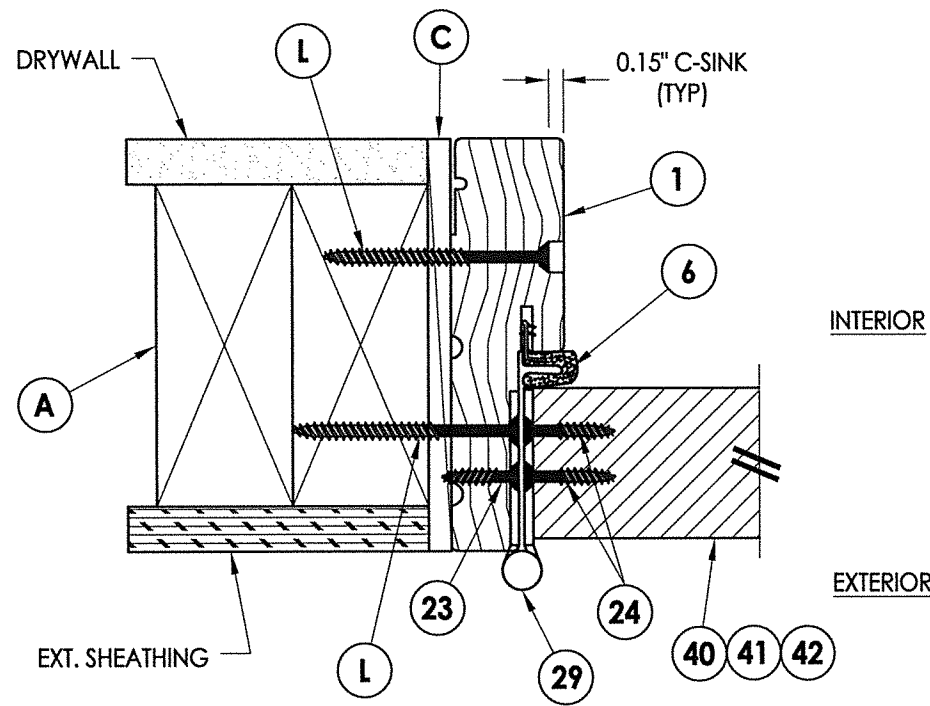
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	ELEVATIONS
DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4724
SHEET	4 OF 9

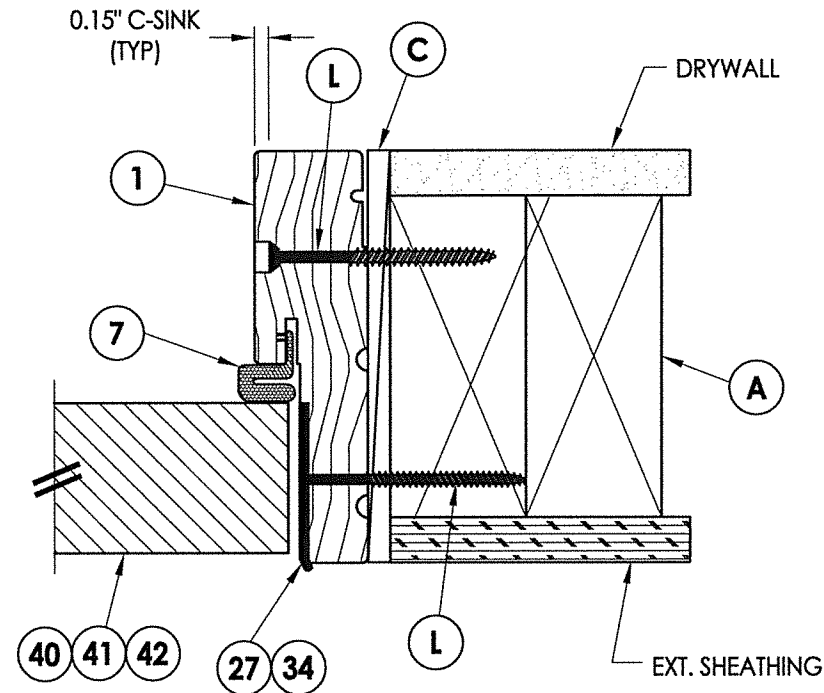
NO.	DATE	DESCRIPTION	BY
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			

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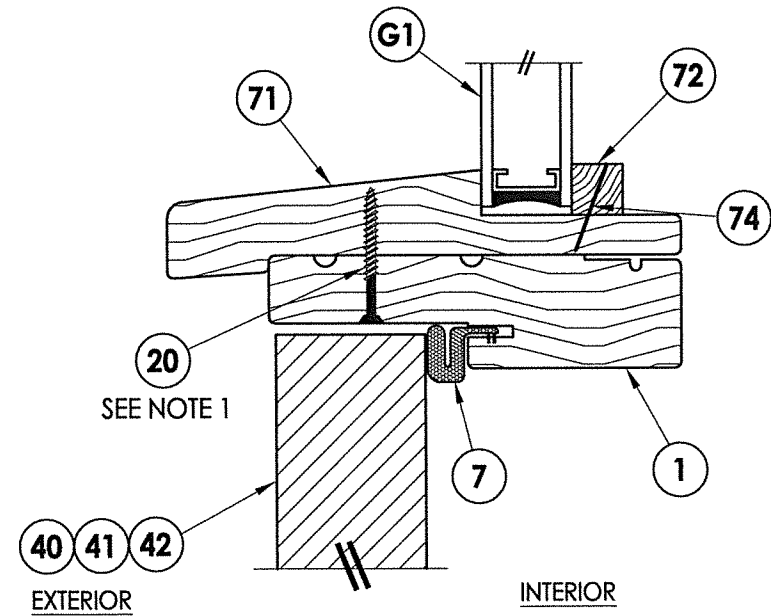
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 947 - 6'8 & 8'0 Opaque Comp Edge Non-Impact (TX 4716 - 4727)\C - Drawings\TX-4724-25.dwg



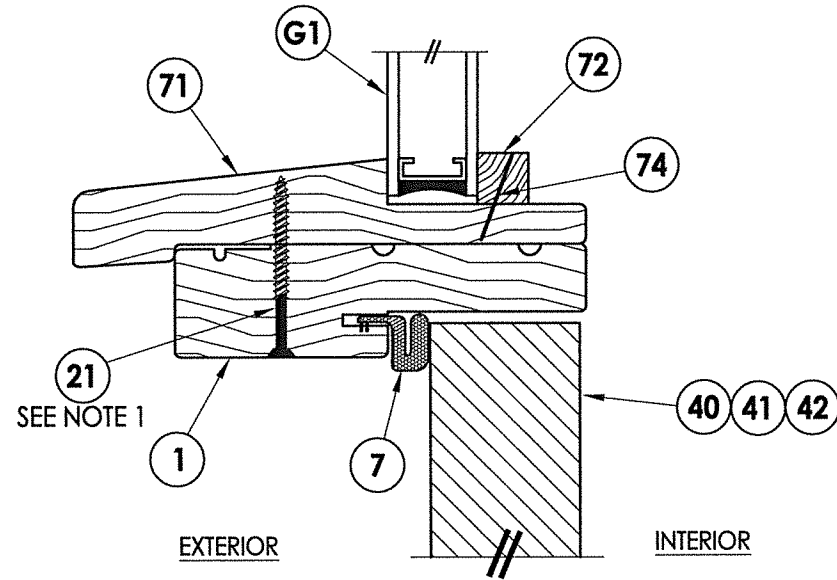
**1** HORIZONTAL CROSS SECTION  
**5** Outswing shown (inswing similar)



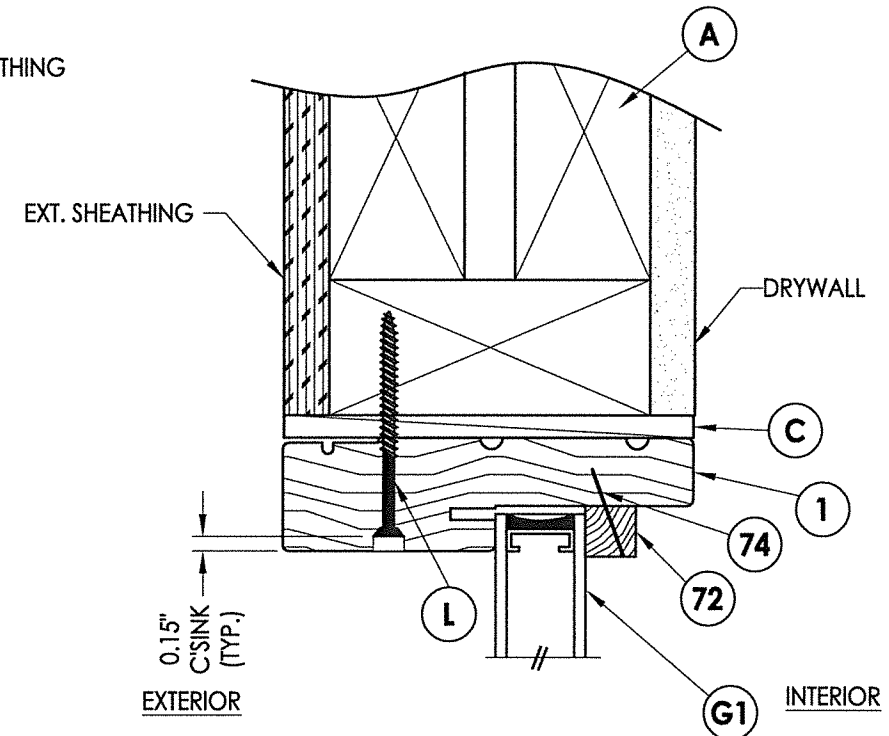
**2** HORIZONTAL CROSS SECTION  
**5** Outswing shown (inswing similar)



**4** VERTICAL CROSS SECTION  
**5** Outswing shown

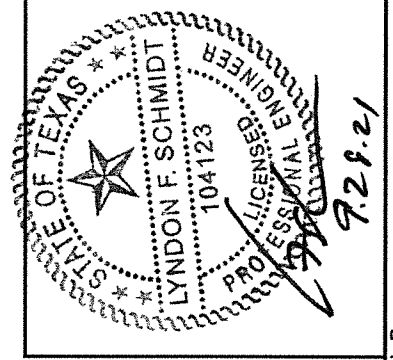


**5** VERTICAL CROSS SECTION  
**5** Inswing shown



**3** HORIZONTAL CROSS SECTION  
**5** 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.  
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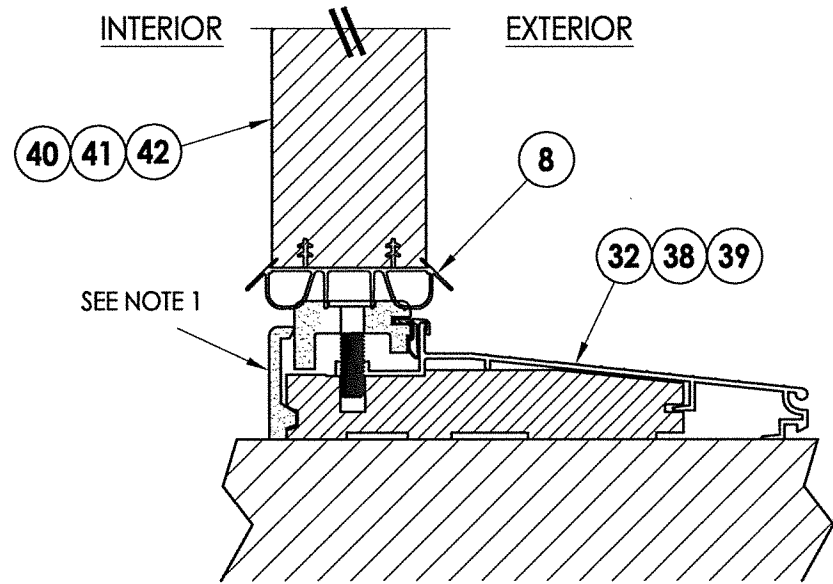
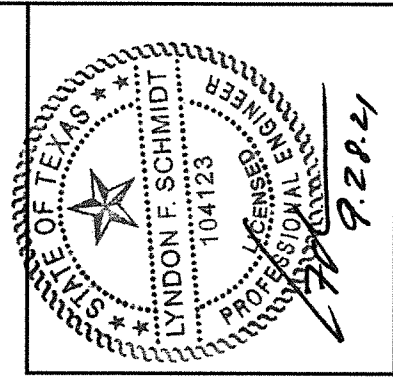
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PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS	
NO.	DATE
1	9/28/21
UPDATE TO 2018 IBC/IRC CODE	
LFS	BY
REVISIONS	
DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4724
SHEET	5 OF 9

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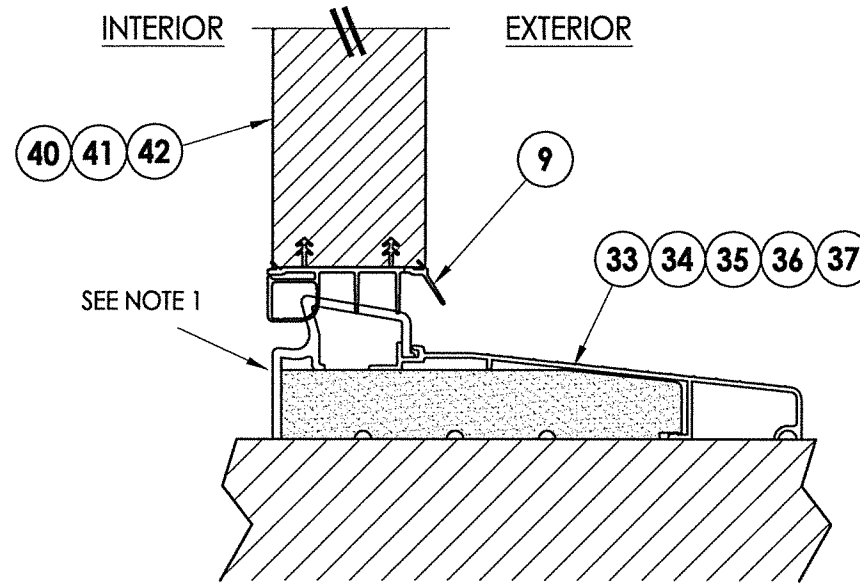
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Notes:

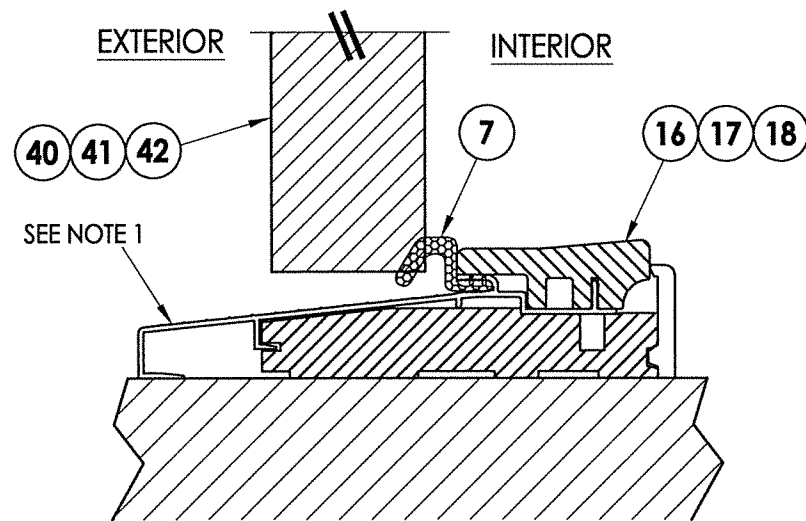
- 1. Sill Item #'s 16, 32, 33, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
- Sill Item #'s 17 & 18 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
- Sill Item #15 is attached to jambs utilizing (2) #10 X 1-1/2" pph screws at each end.



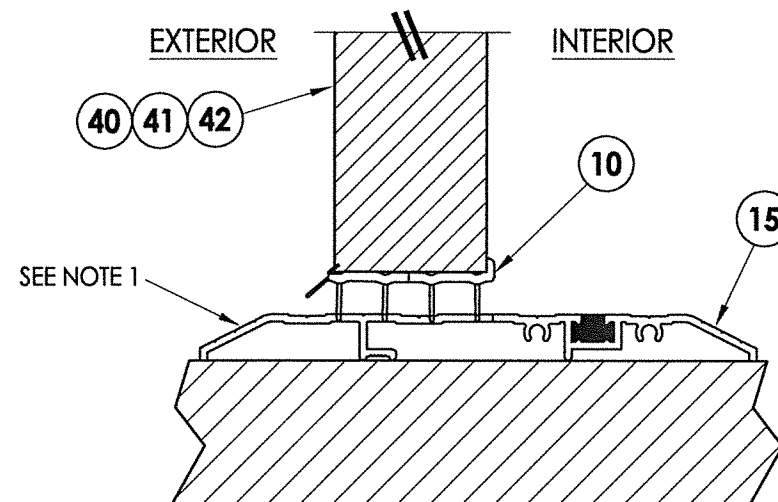
**1** VERTICAL CROSS SECTION  
6 Inswing Sill



**2** VERTICAL CROSS SECTION  
6 Inswing Sill

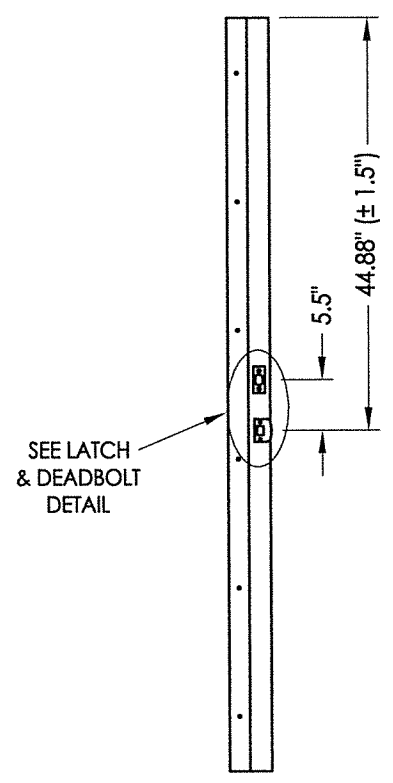


**3** VERTICAL CROSS SECTION  
6 Outswing Sill (Coastal Sill Shown)

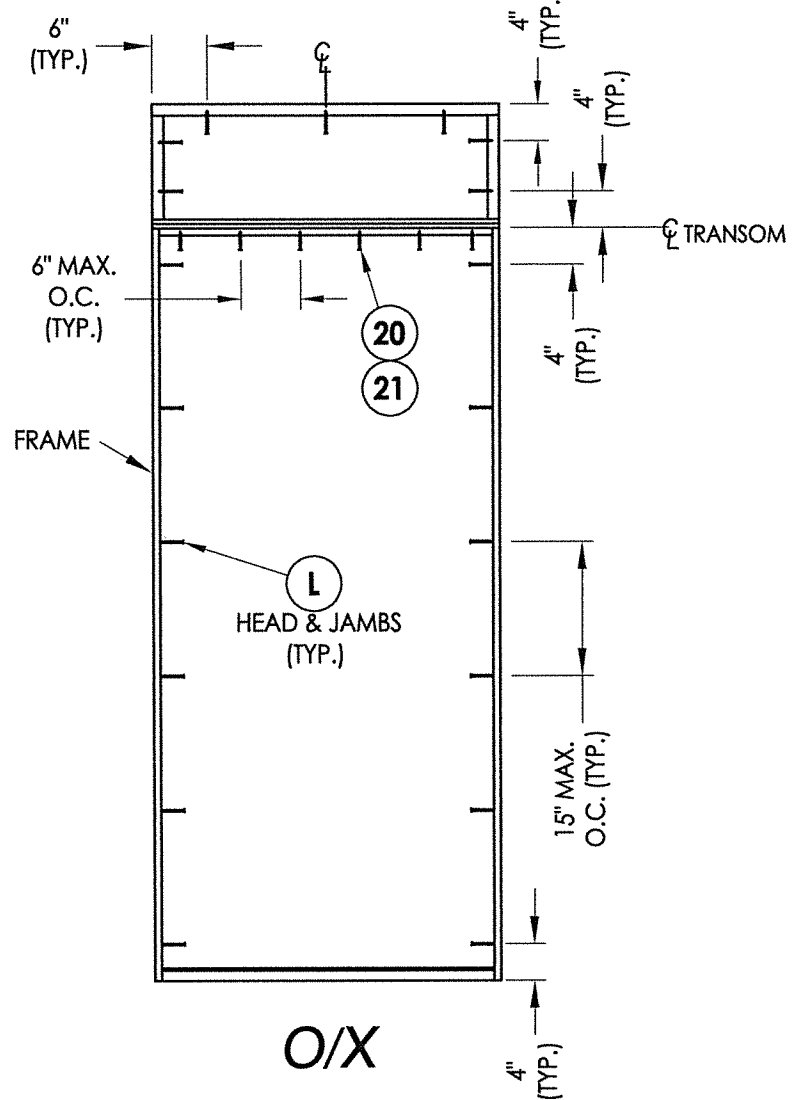


**4** VERTICAL CROSS SECTION  
6 Public Access Sill

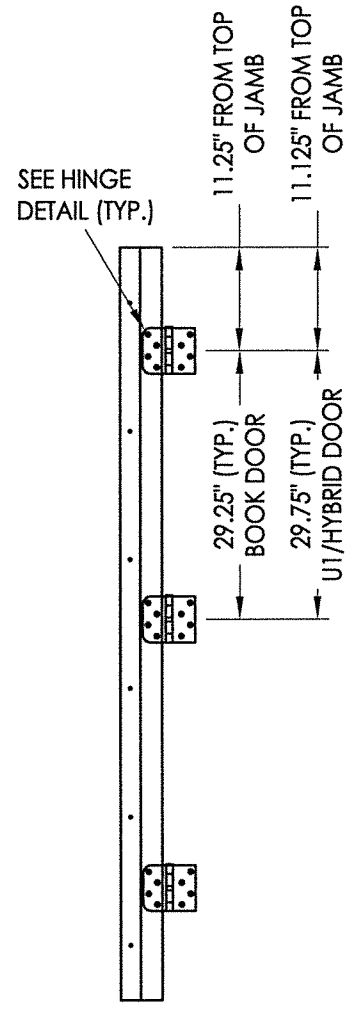
Documents Prepared By: Lyndon F. Schmidt, P.E. TEXAS P.E. #104123		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197		CERTIFICATE OF REGISTRATION # F-11852
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)		
			LFS	BY
			1	9/28/21
			NO.	DATE
				REVISIONS
DATE: 11/14/17		SCALE: N.T.S.		
DWG. BY: JK		CHK. BY: LFS		
DRAWING NO.: TX-4724		SHEET 6 OF 9		



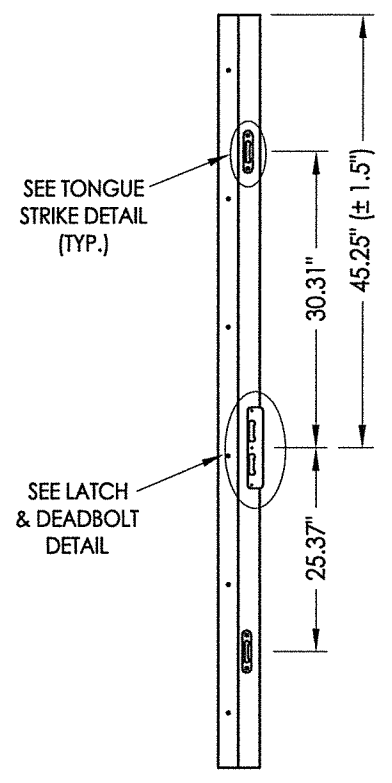
**STRIKE JAMB**  
Latch and Deadbolt



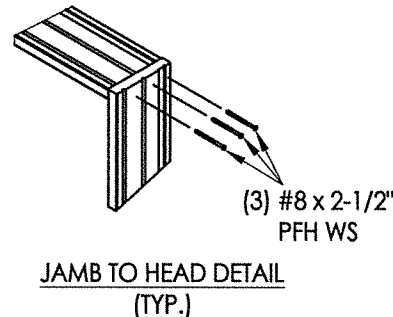
**FRAME ANCHORING**



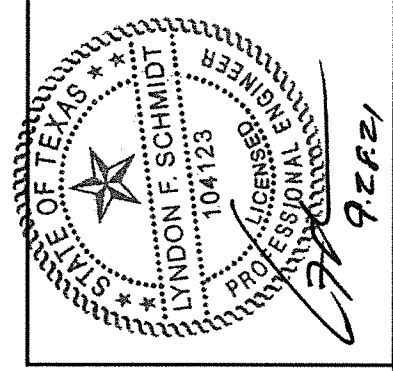
**HINGE JAMB**



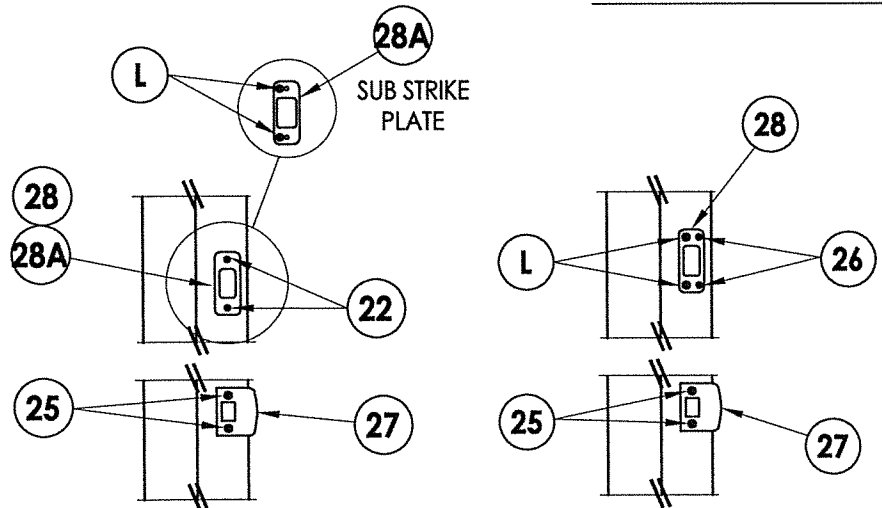
**STRIKE JAMB**  
Multipoint Lock



**JAMB TO HEAD DETAIL**  
(TYP.)



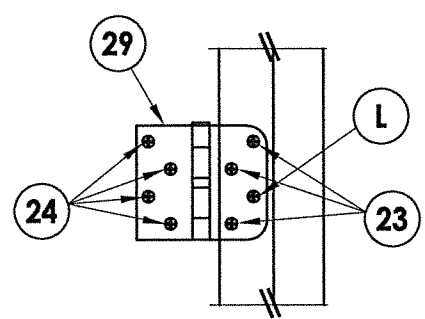
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123  
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
CERTIFICATE OF REGISTRATION # F-11852



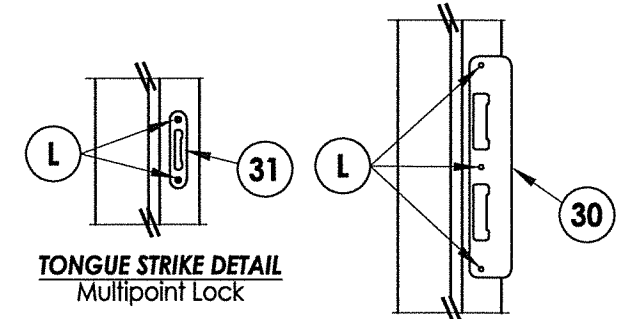
**LATCH & DEADBOLT DETAIL**  
Schlage

**LATCH & DEADBOLT DETAIL**  
Kwikset

**LATCH & DEADBOLT STRIKE DETAILS**  
(Standard Deadbolt Strike Plate)



**HINGE DETAIL**



**TONGUE STRIKE DETAIL**  
Multipoint Lock

**LATCH & DEADBOLT DETAIL**  
Multipoint Lock

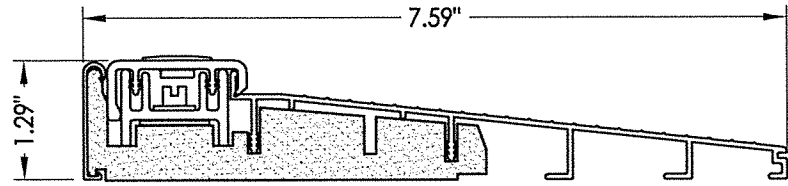
**MULTIPOINT LOCK STRIKE DETAILS**

PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	FRAME ANCHORING & HARDWARE DETAILS

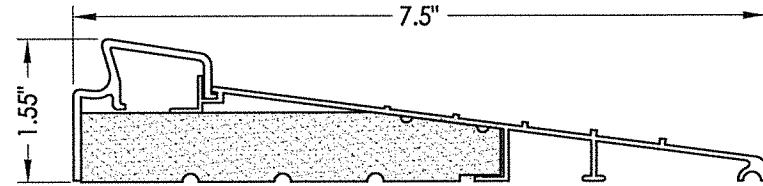
NO.	DATE	DESCRIPTION	BY
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4724
SHEET	7 OF 9

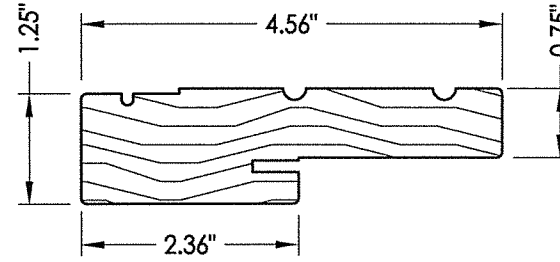




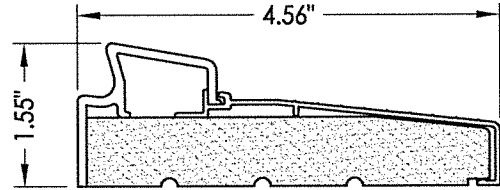
**32 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill 7-1/2"



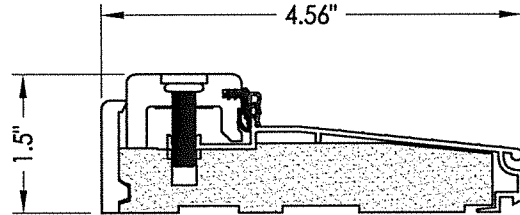
**37 INSWING THRESHOLD**  
Inswing Basic Fixed 7-1/2" Sill



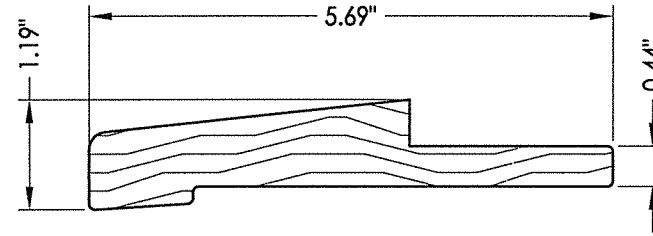
**1 WOOD JAMB**



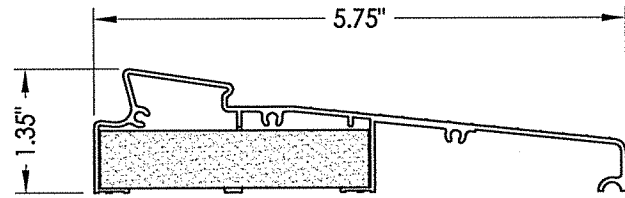
**33 INSWING THRESHOLD**  
Inswing Basic Fixed Sill



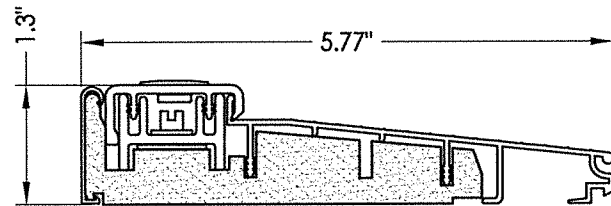
**38 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill



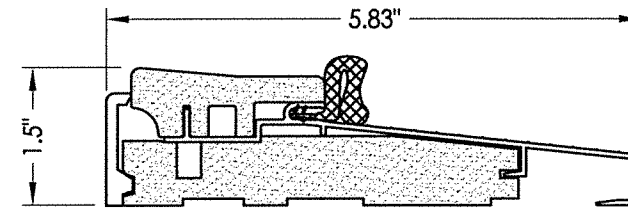
**71 TRANSOM SILL**



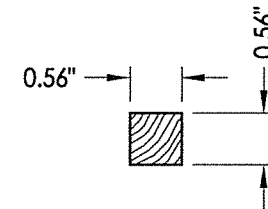
**34 INSWING THRESHOLD**  
Inswing Moderate Climate Sill 1-3/8"



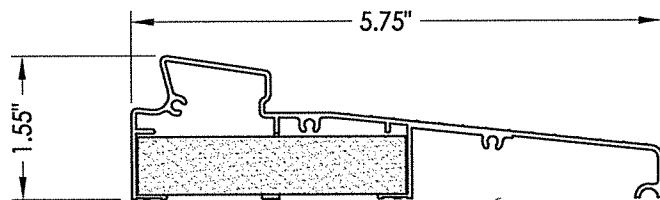
**39 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill



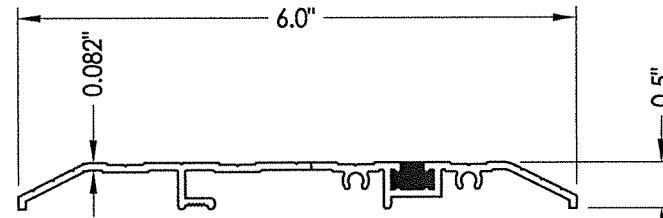
**16 OUTSWING THRESHOLD**  
Composite Sill



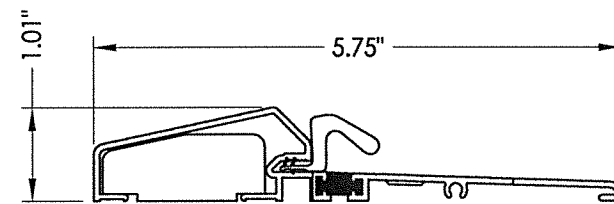
**72 TRANSOM MOLDING**



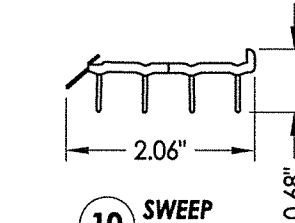
**35 INSWING THRESHOLD**  
Inswing Moderate Climate Sill



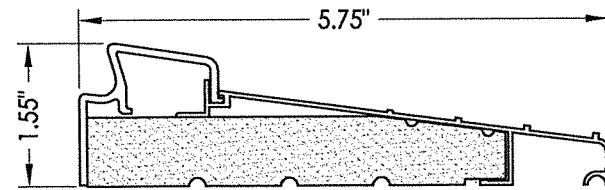
**15 PUBLIC ACCESS THRESHOLD**



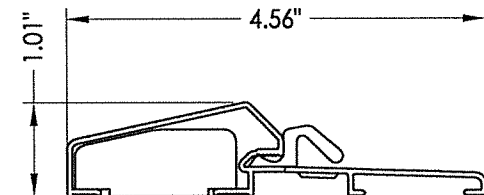
**18 OUTSWING THRESHOLD**  
Composite / Aluminum Sill  
(Thermal Break)



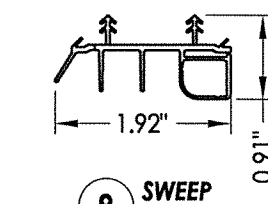
**10 SWEEP**



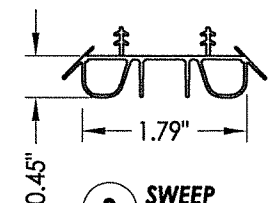
**36 INSWING THRESHOLD**  
Inswing Basic Fixed 5-3/4" Sill



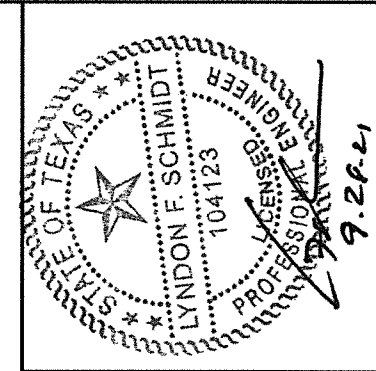
**17 OUTSWING THRESHOLD**  
Composite / Aluminum Sill



**9 SWEEP**



**8 SWEEP**



Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	COMPONENTS

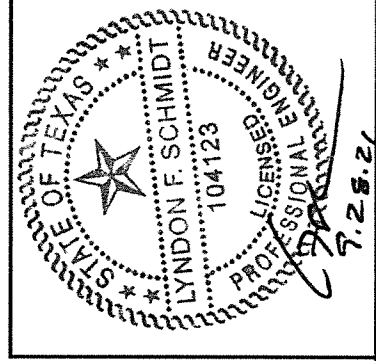
NO.	DATE	REVISIONS	BY
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4724
SHEET	8 OF 9



**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	JAMB (FINGER JOINT PINE)	WOOD
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
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
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 SUB STRIKE PLATE	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
33	INSWING THRESHOLD	ALUM/COMP
34	INSWING THRESHOLD	ALUM/COMP
35	INSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
37	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)	-
70	TRANSOM PANEL	-
71	TRANSOM SILL	WOOD
72	TRANSOM MOLDING	WOOD
74	8d X 1" BRAD NAIL	STEEL



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PRODUCT: THERMA-TRU  
FIBERGLASS DOOR  
PART OR ASSEMBLY:  
BILL OF MATERIALS

NO.	DATE	DESCRIPTION	LFS	BY
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REVISIONS

DATE: 11/14/17  
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SHEET 9 OF 9