

# THERMA-TRU® DOORS

Fiber-Classic® & Smooth-Star®

## COMPOSITE EDGE GLAZED FIBERGLASS SINGLE DOOR w/ or w/out SIDELITES IN SWING/OUT SWING "COASTAL - IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

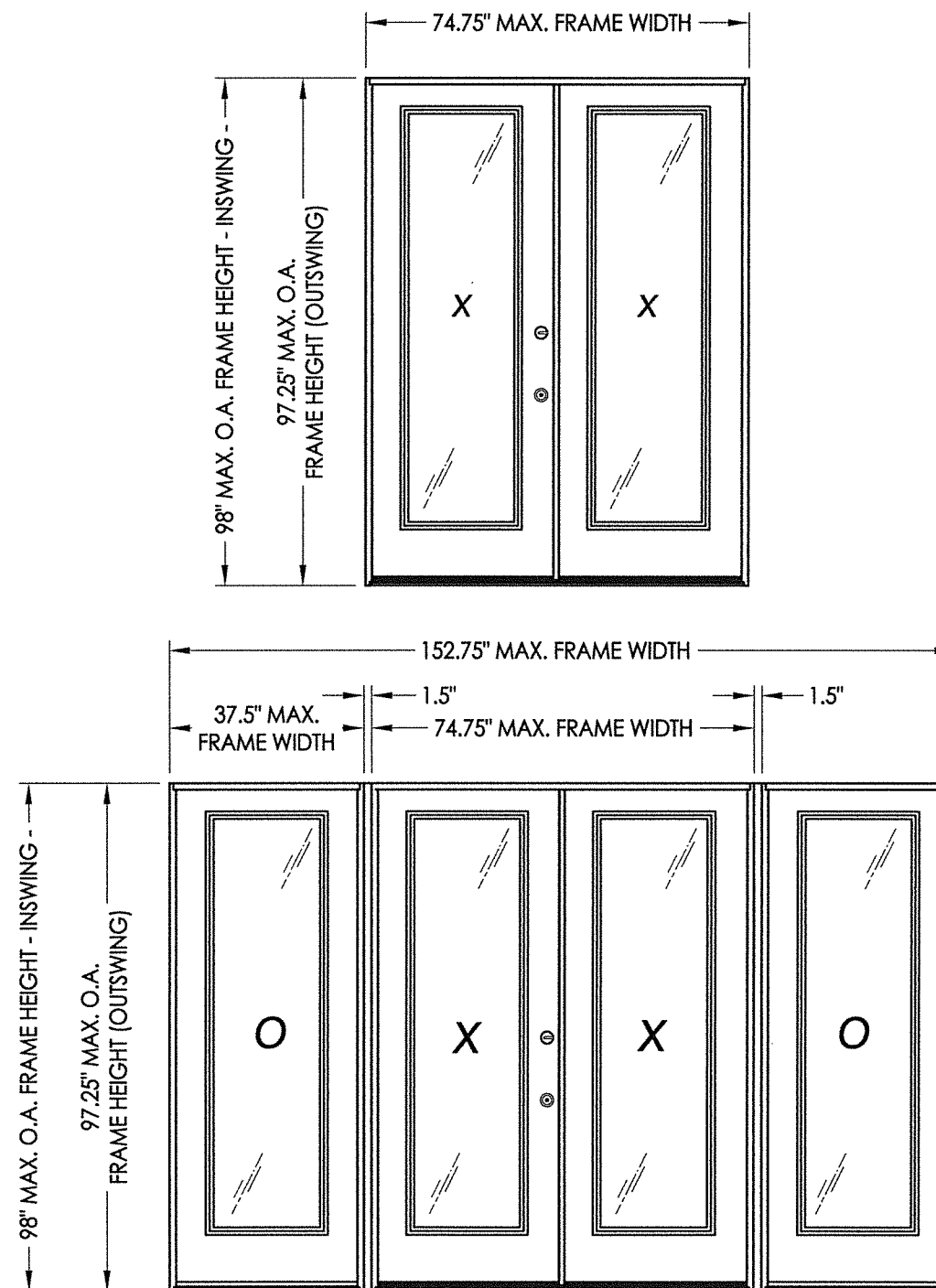
**TDI DR-952**

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. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. This product meets missile level "D" as defined in ASTM E 1996.
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 & Sidelite panels require the use of "J" part numbers. These door panels must be stained or painted within six months of installation.

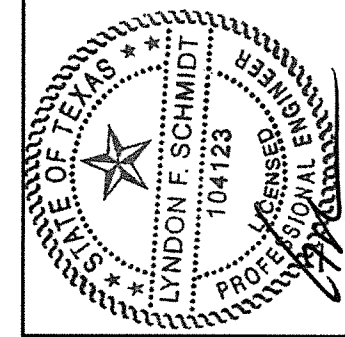
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CONFIGURATION	DESIGN PRESSURE (PSF) IN SWING		DESIGN PRESSURE (PSF) OUT SWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX, OXXO	+50.0	-55.0	+50.0	-50.0

See Sheet 4 for Hardware Specifications



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

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P.O. Box 230 Vairico FL 33595  
Phone No.: 813.659.9197

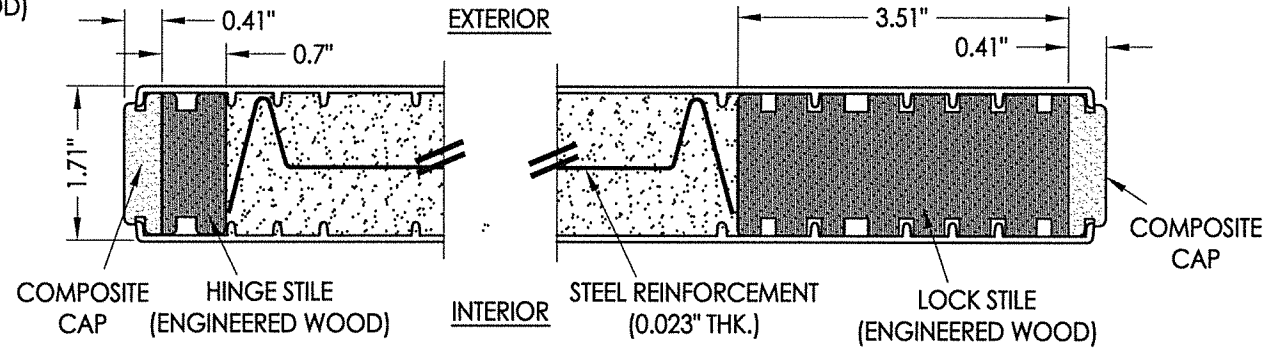
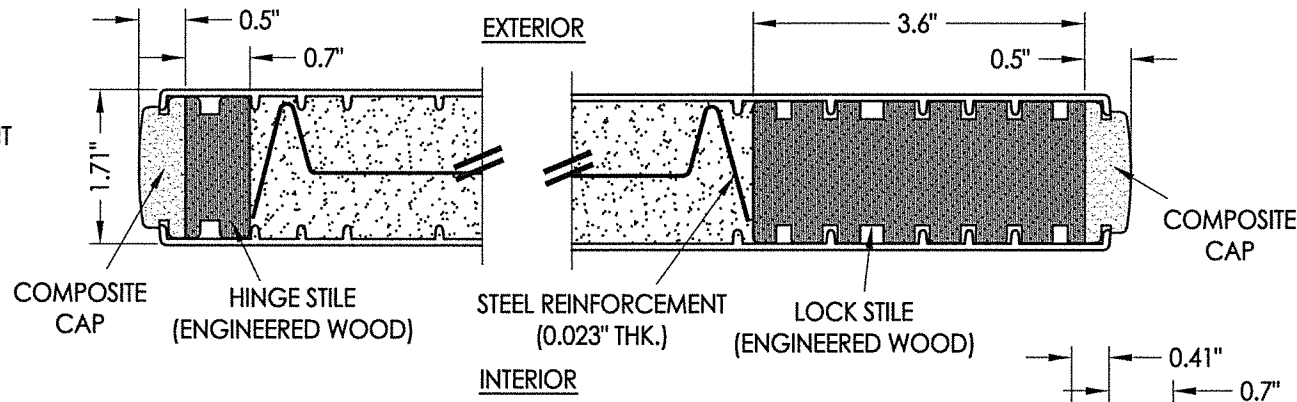
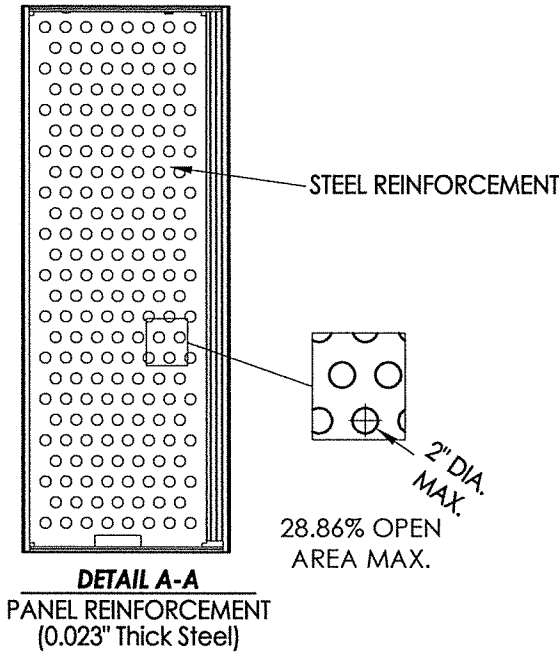
CERTIFICATE OF REGISTRATION # F-11852

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

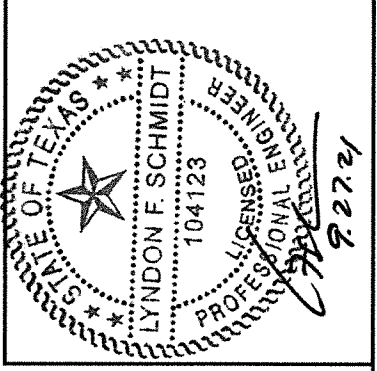
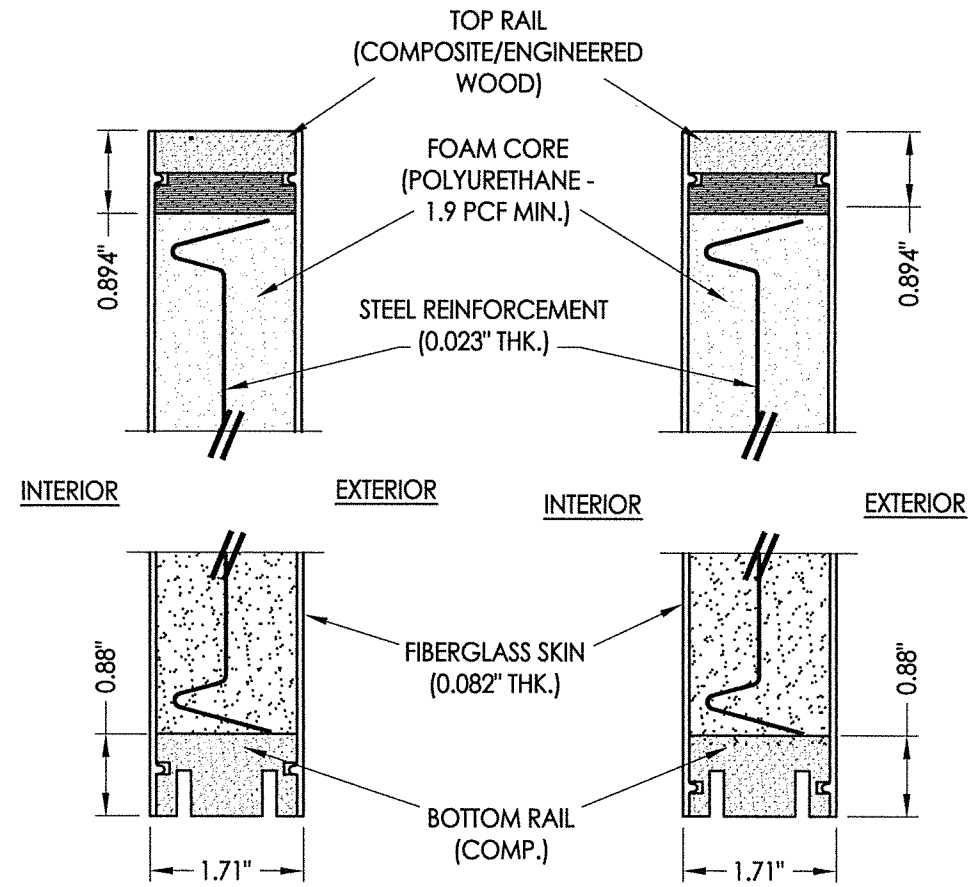
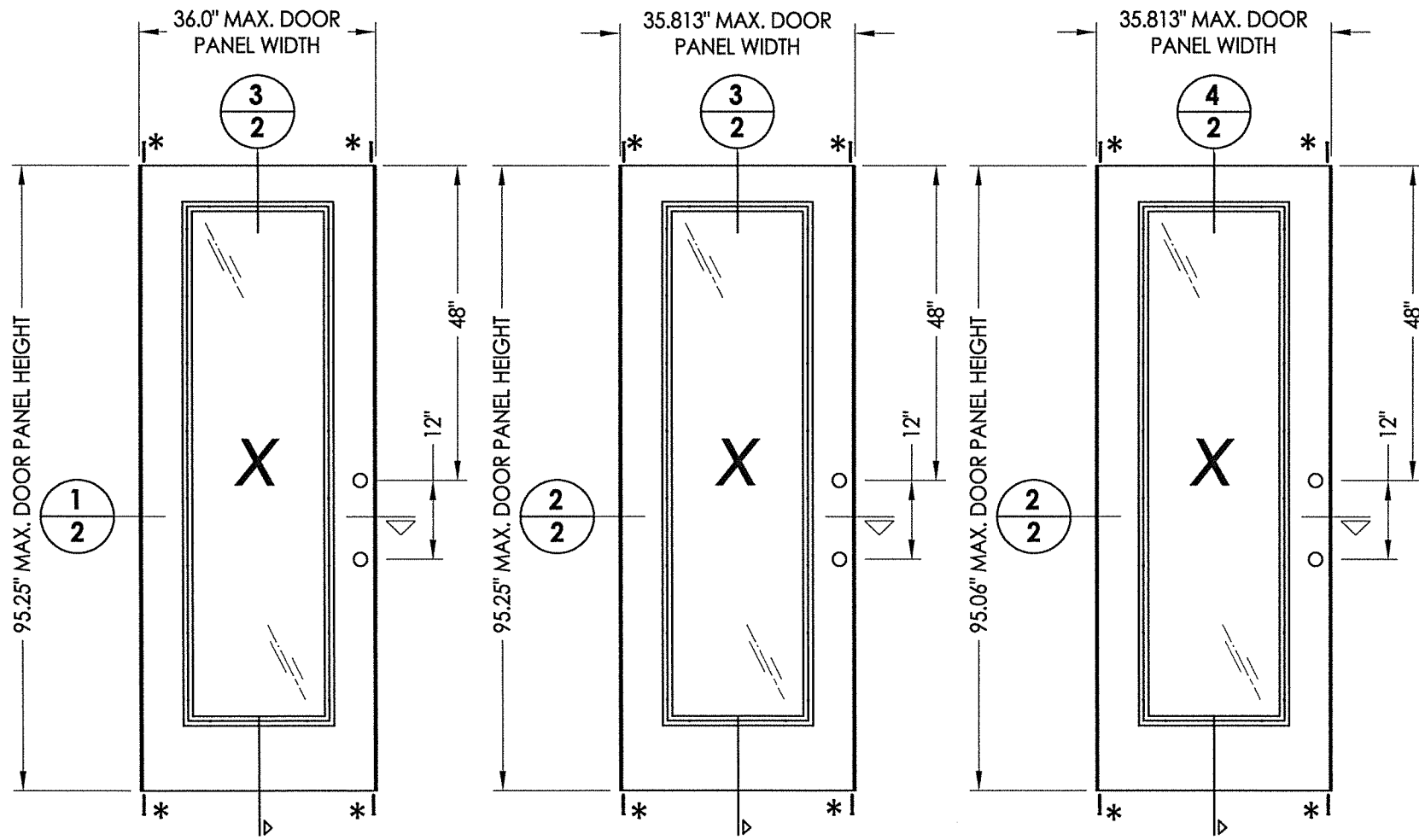
NO.	DATE	DESCRIPTION	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 10/24/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4750  
SHEET 1 OF 11

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 952 - 618 & 810 Glazed Comp Edge Coastal Impact (TX 4745 - 4750)\C - Drawings\TX-4748-50.dwg



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



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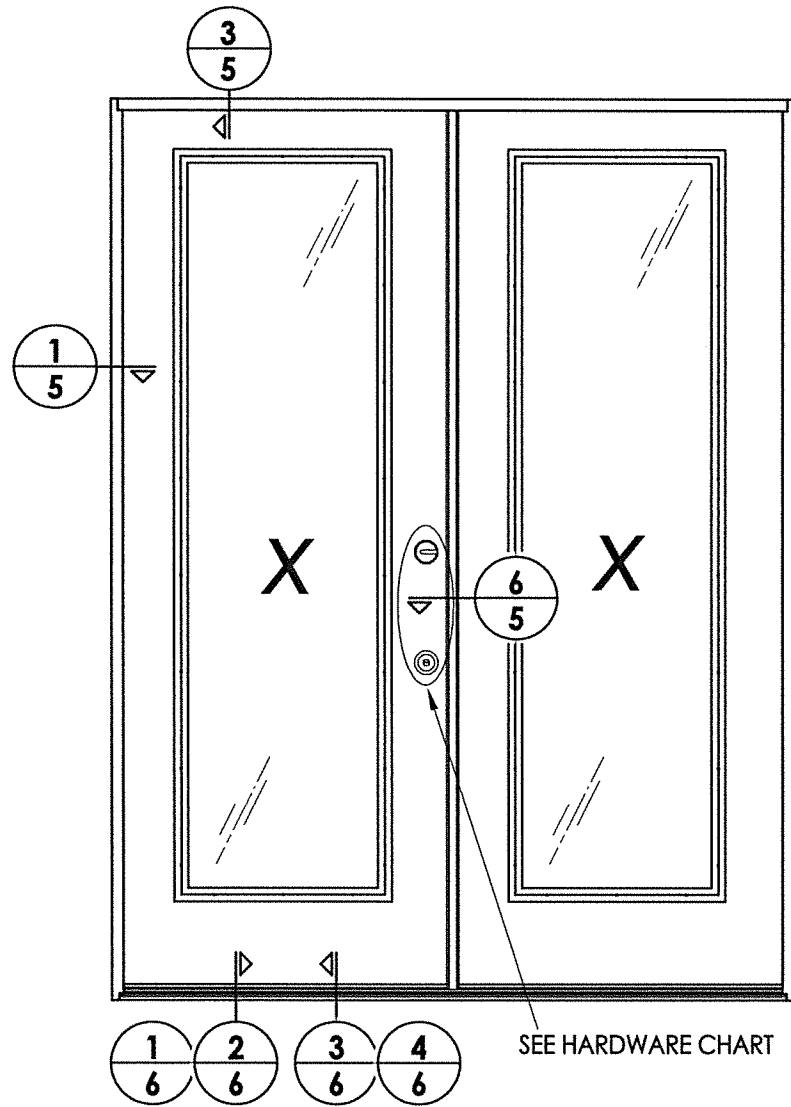
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CERTIFICATE OF REGISTRATION # F-11852

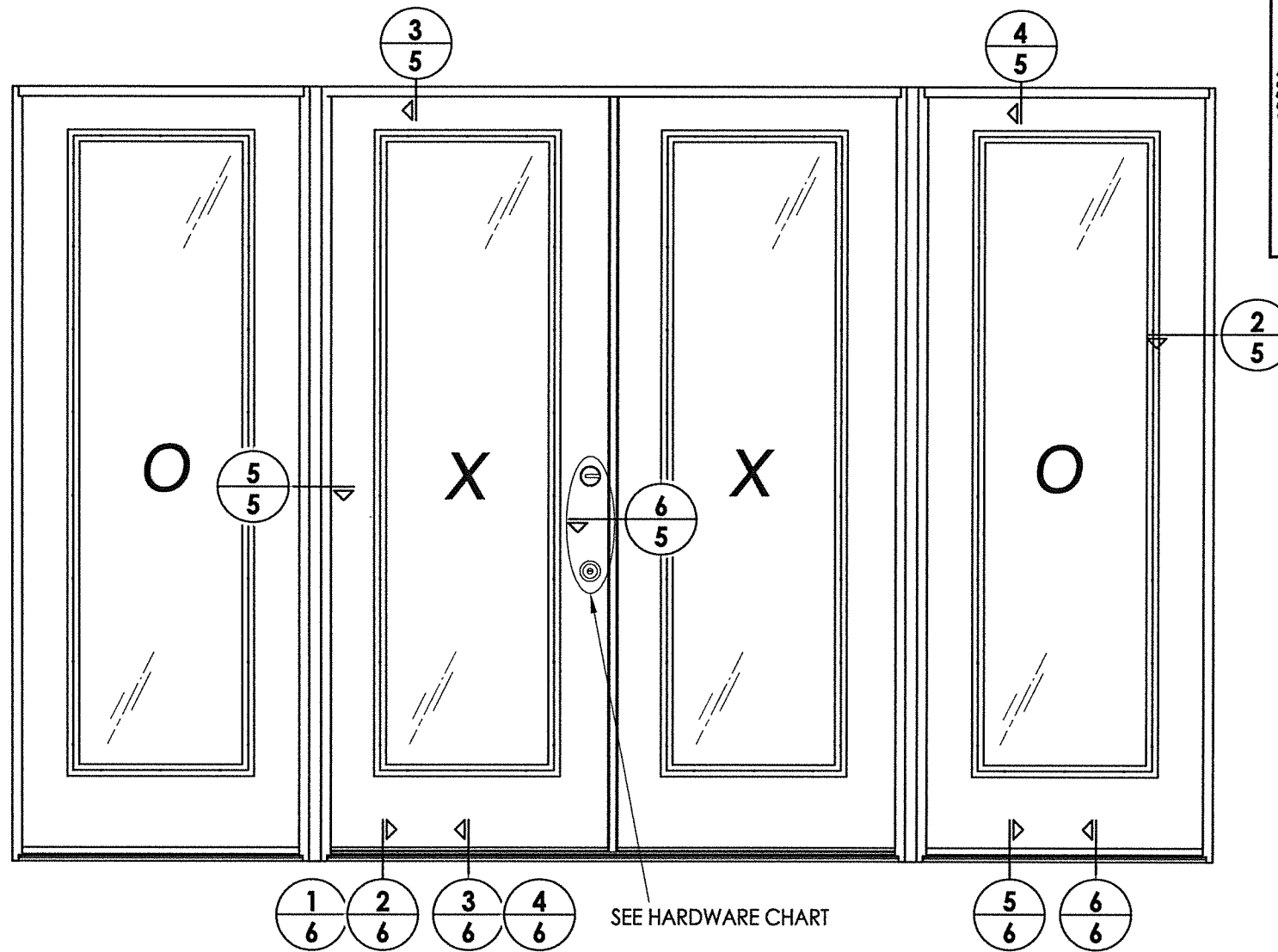
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PART OR ASSEMBLY:	DOOR PANEL DETAILS	
NO.	DATE	REVISIONS
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE
LFS	BY	
DATE: 10/24/17		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: TX-4750		
SHEET 2 OF 11		

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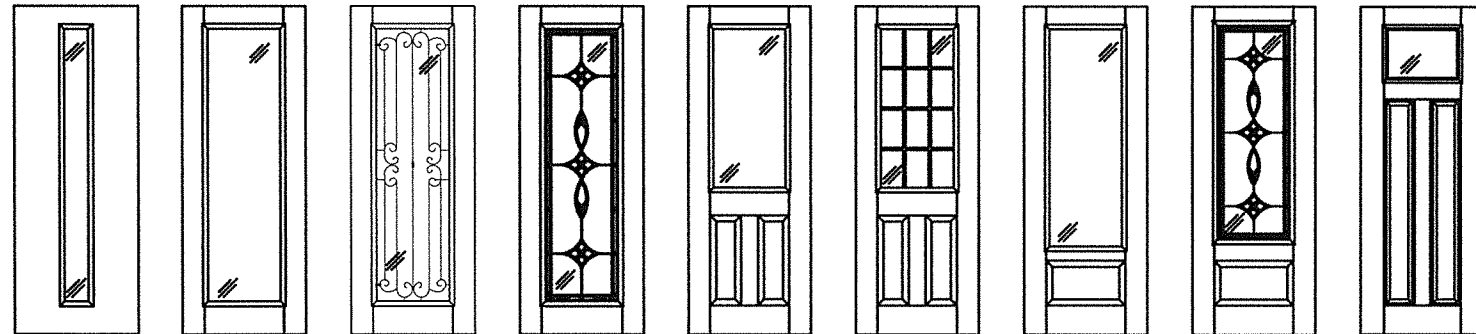




SEE HARDWARE CHART

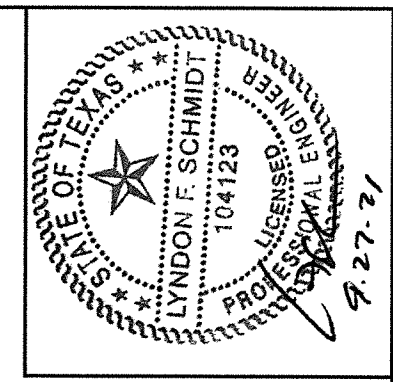


SEE HARDWARE CHART



**Fiber-Classic/Smooth-Star Door Panel Options**  
 Panel options shown are for illustration and are representative only  
 (similar glazed panel configurations are allowed)

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



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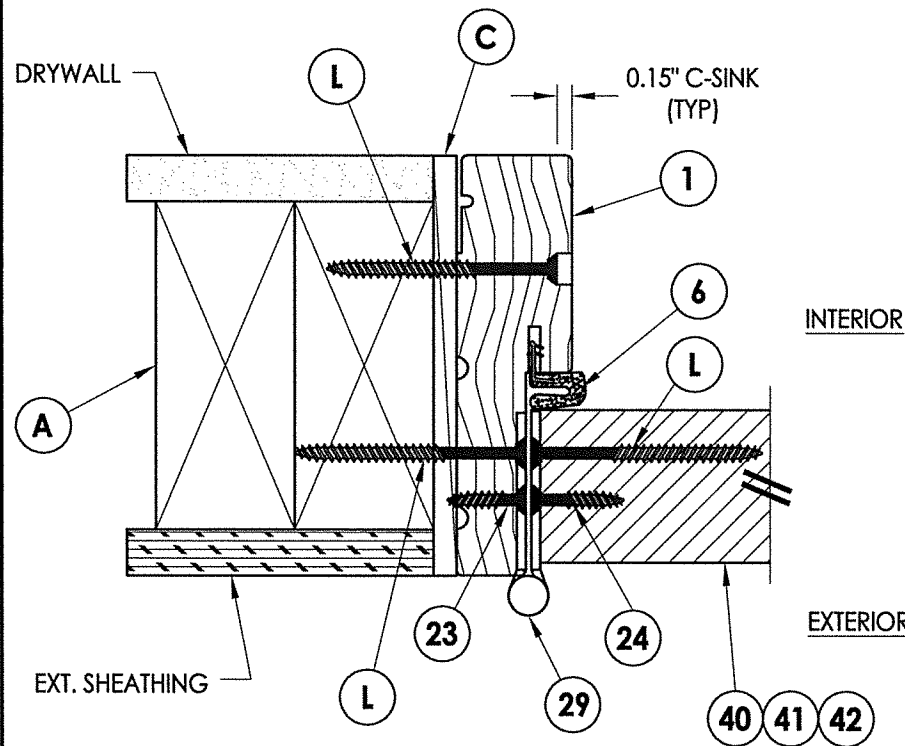
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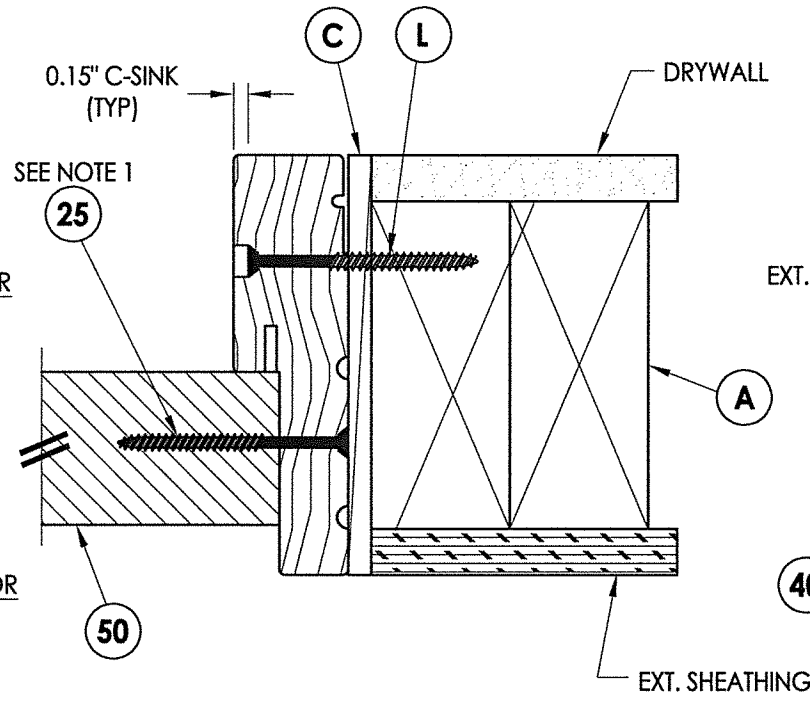
PART OR ASSEMBLY: ELEVATIONS

REVISIONS	
NO.	DATE
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	UPDATE TO 2018 IBC/IRC CODE
	LFS
	BY

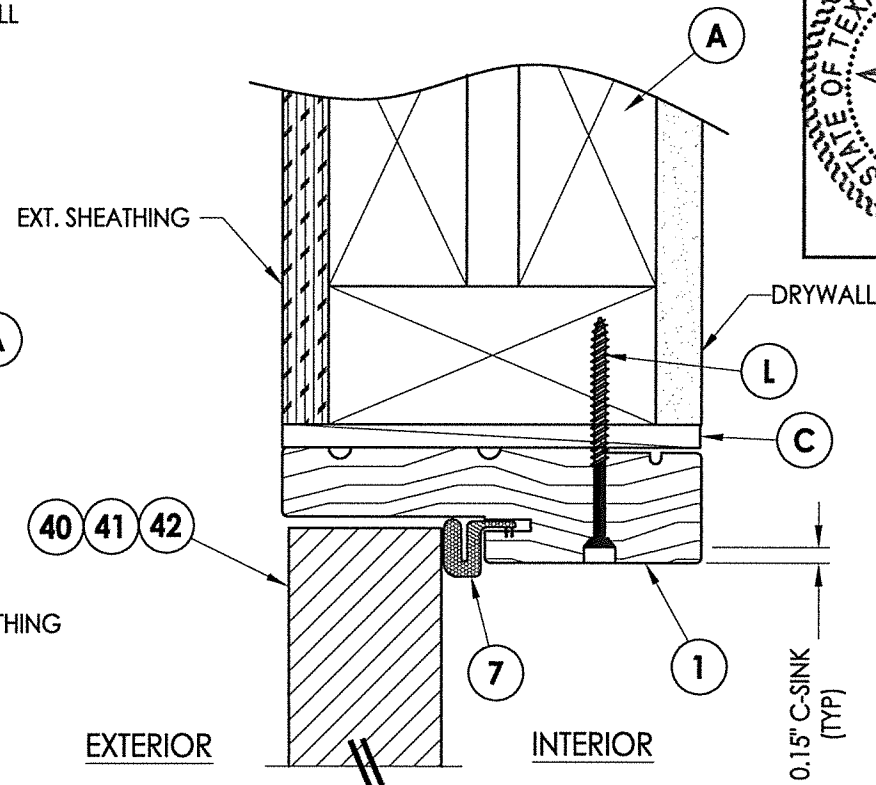
DATE: 10/24/17  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: TX-4750  
 SHEET 4 OF 11



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



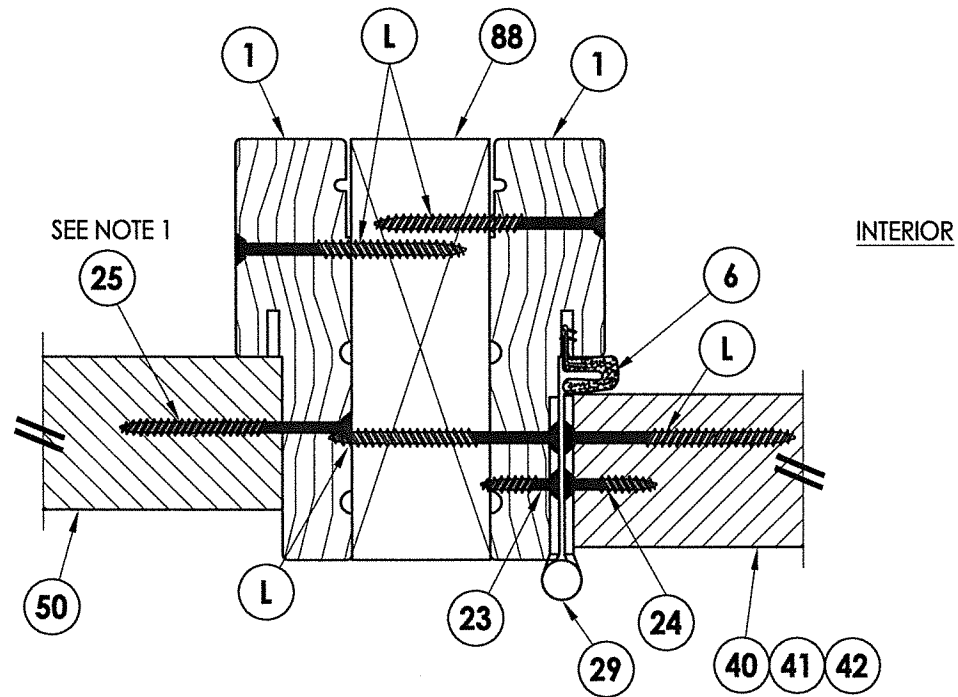
**2 HORIZONTAL CROSS SECTION**  
**5** Shown w/ 2X Buck  
 Outswing shown (Inswing similar)



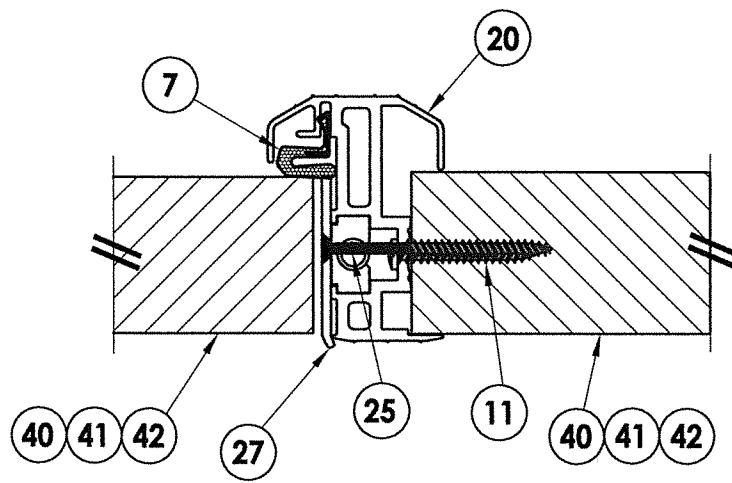
**3 VERTICAL CROSS SECTION**  
**5** Shown w/ 2X Buck  
 Outswing shown (Inswing similar)

**Notes:**

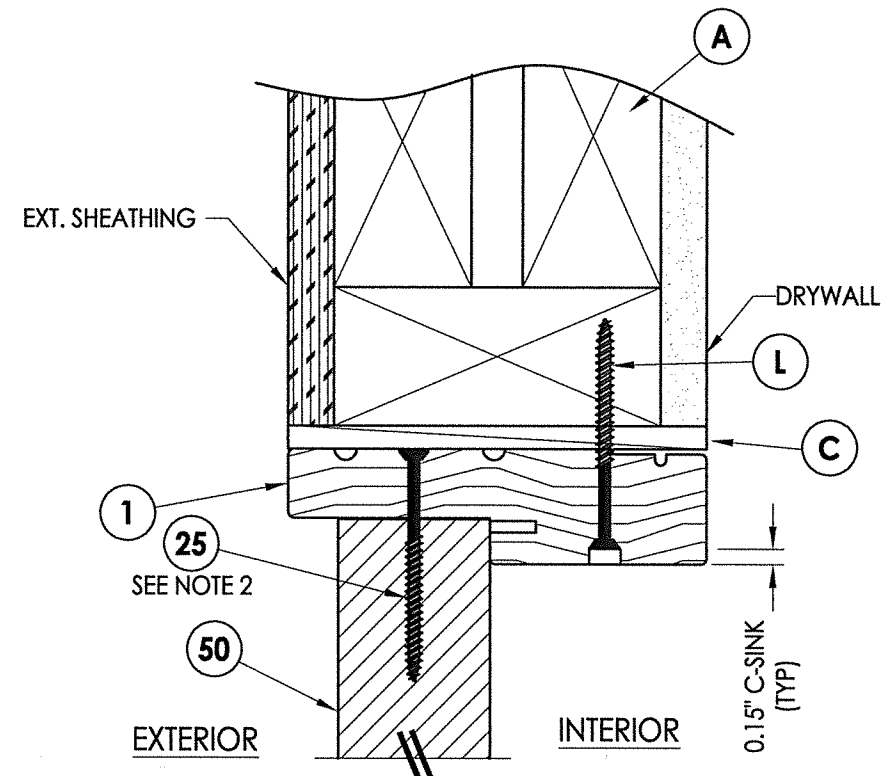
- Sidelite assembly screws located 6" from each end and 6 more screws equally spaced between (8 screws total per side jamb).
- Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



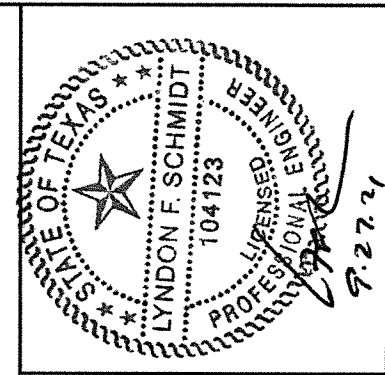
**5 HORIZONTAL CROSS SECTION**  
**5** Outswing shown (Inswing similar)



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



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



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS

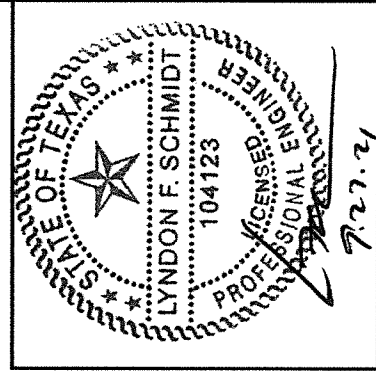
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UPDATE TO 2018 IBC/IRC CODE		

DATE:	10/24/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4750
SHEET	5 OF 11

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 952 - 6'8 & 8'0 Glazed Comp Edge Coastal Impact (TX 4745 - 4750)\C - Drawings\TX-4748-50.dwg

**Notes:**

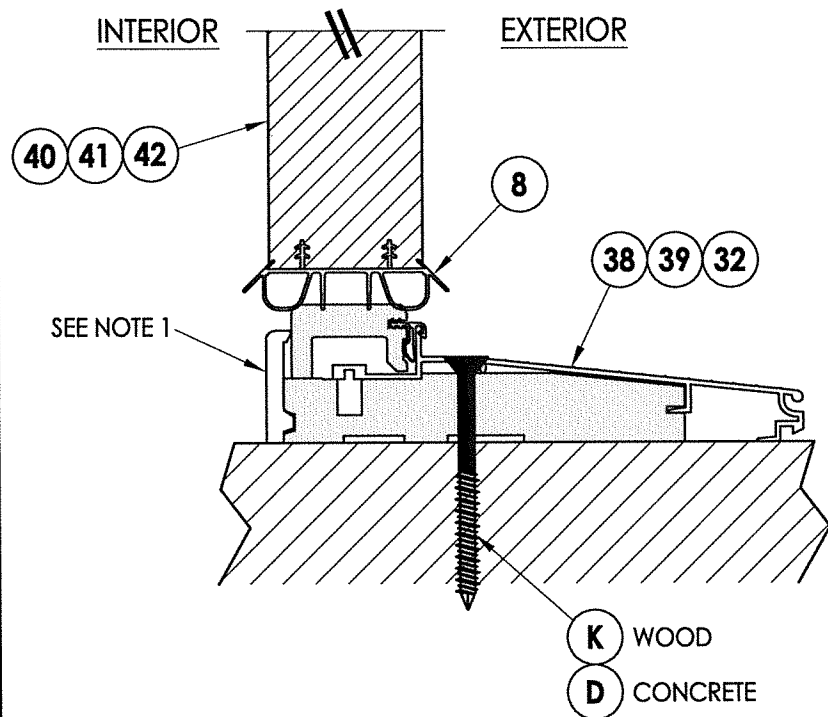
- Sill Item #'s 16, 32, 33, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.  
Sill Item #'s 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pph screws at each end.  
Sill Item #15 is attached to jambs utilizing (2) #10 X 1-1/2" pph screws at each end.
- Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



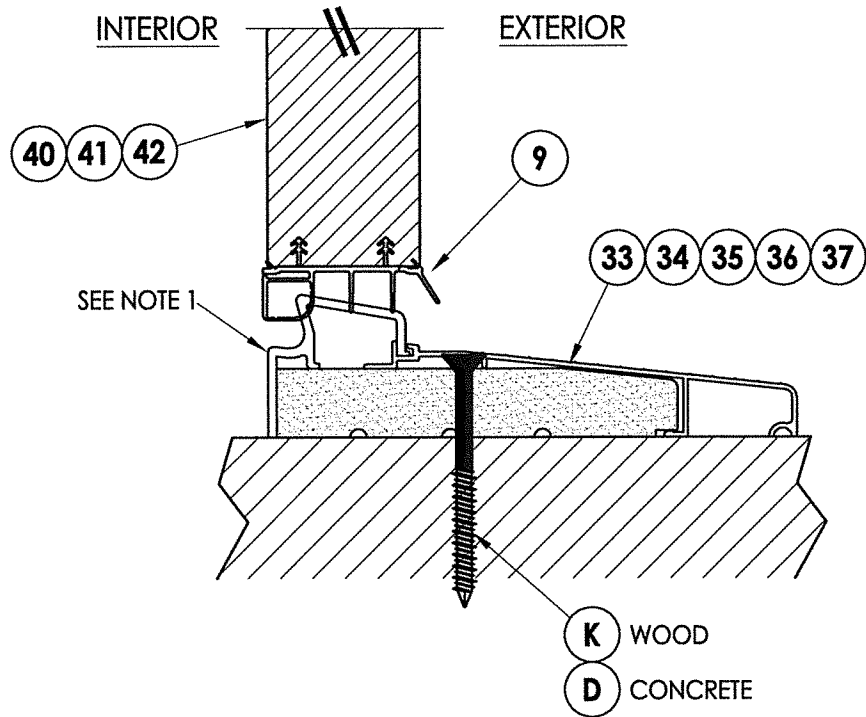
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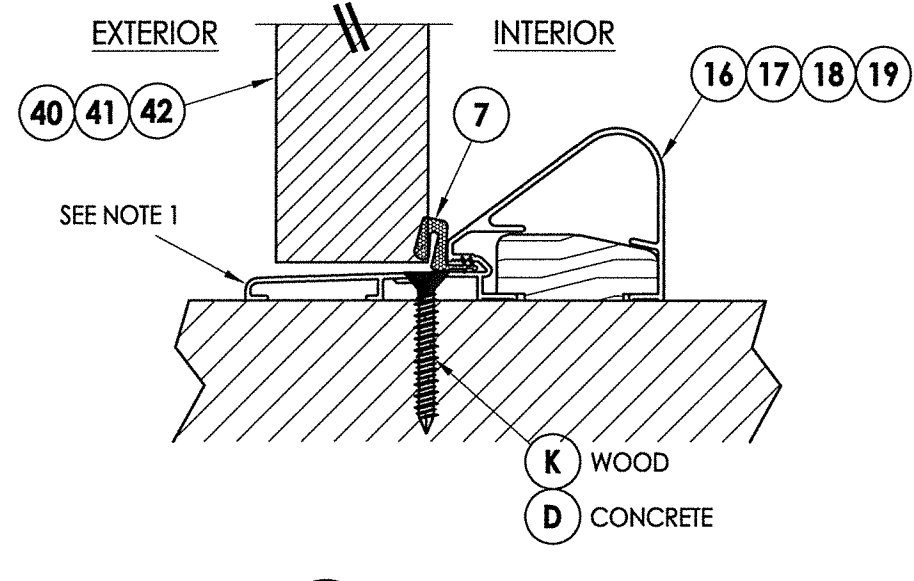
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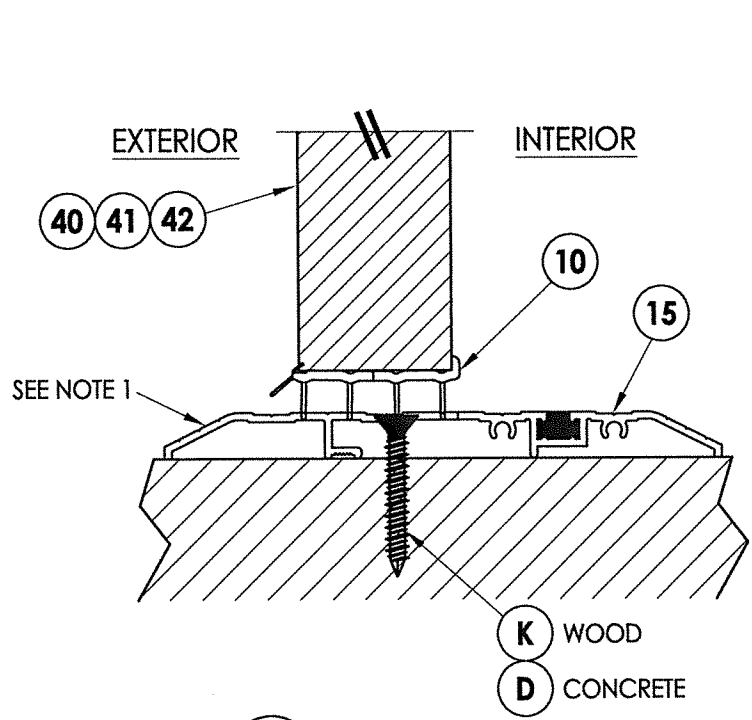
**1 VERTICAL CROSS SECTION**  
6 Inswing Sill



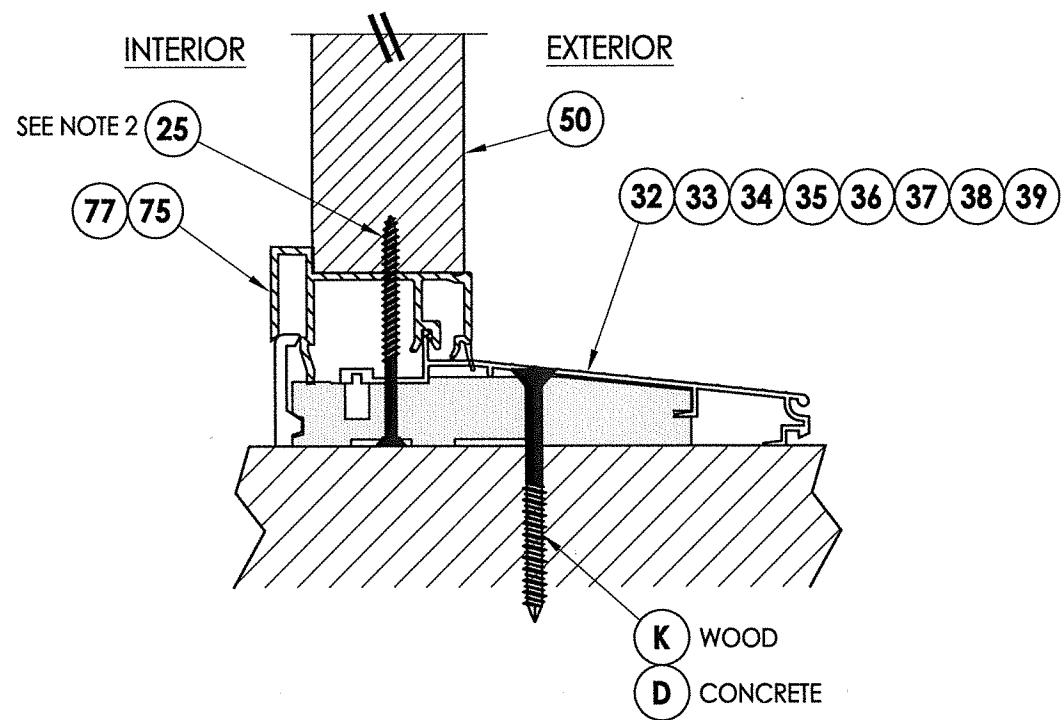
**2 VERTICAL CROSS SECTION**  
6 Inswing Sill



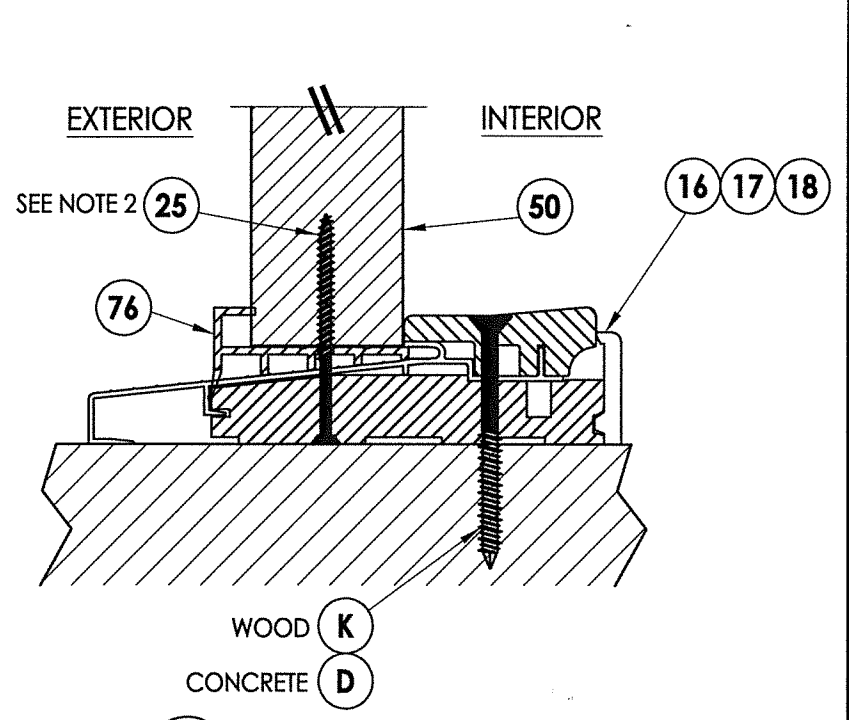
**3 VERTICAL CROSS SECTION**  
6 Outswing Sill



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



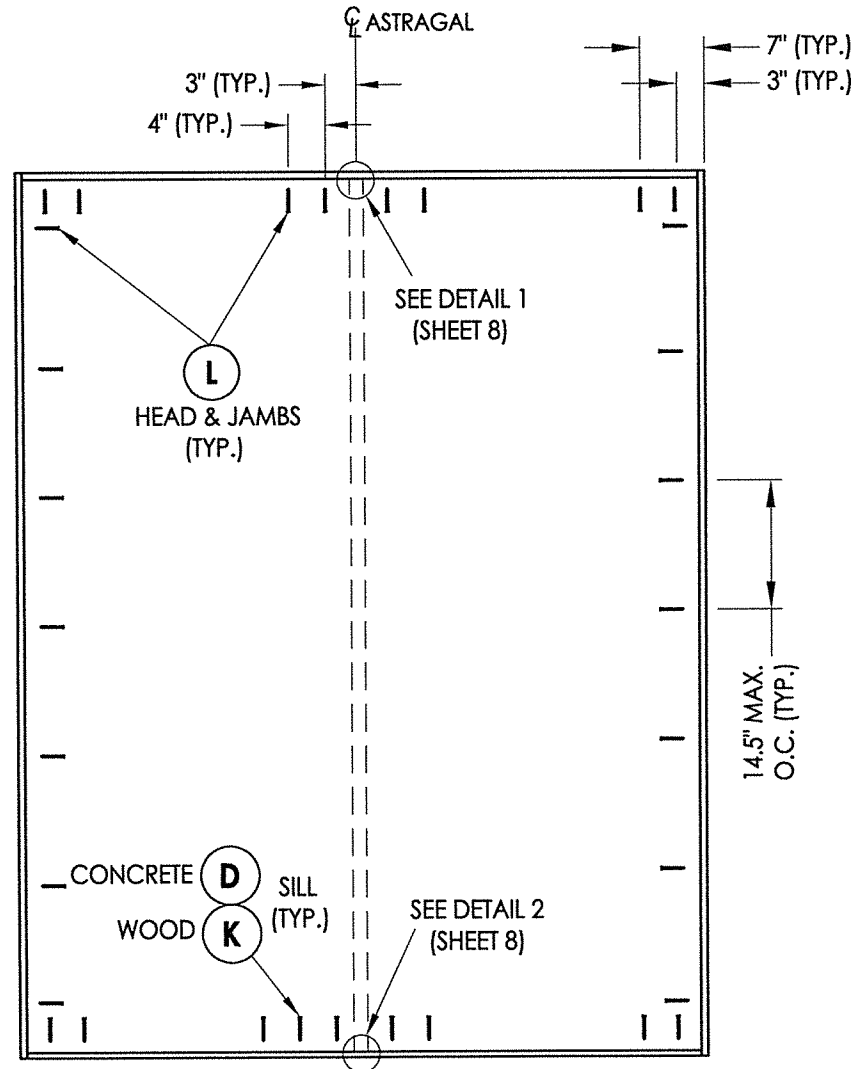
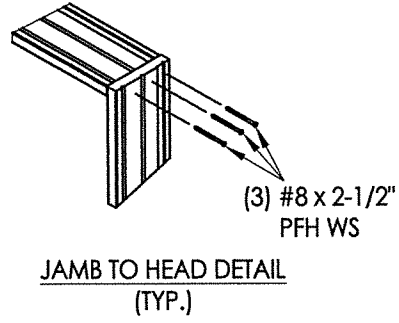
**5 VERTICAL CROSS SECTION**  
6 Inswing Sill



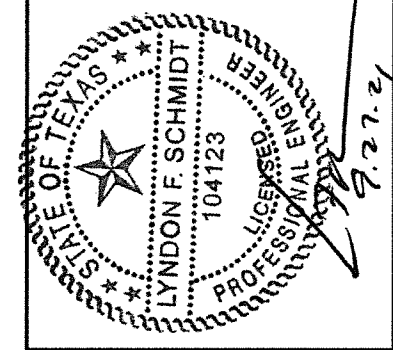
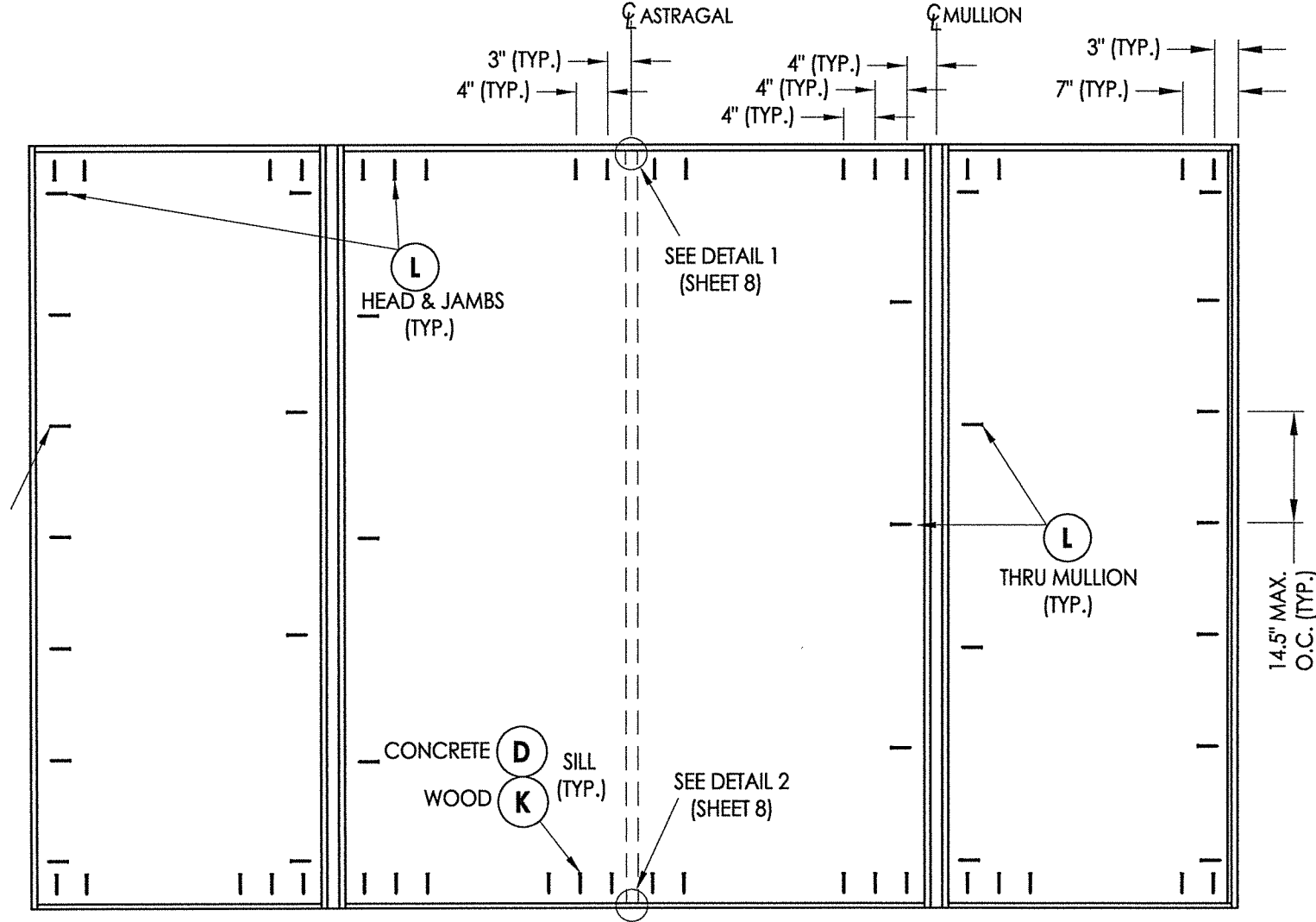
**6 VERTICAL CROSS SECTION**  
6 Outswing Sill

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	
NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	BY
1	9/27/21		LFS
REVISIONS			
DATE: 10/24/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4750			
SHEET 6 OF 11			

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**FRAME ANCHORING**



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
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		LFS
		BY

DATE: 10/24/17

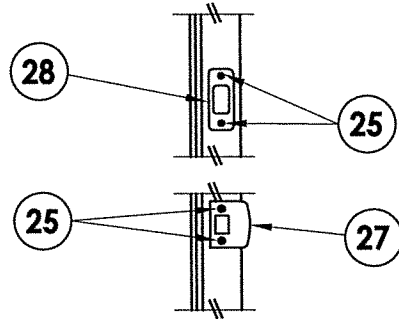
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DWG. BY: JK

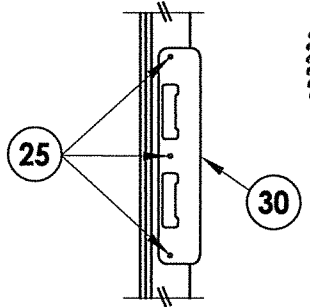
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DRAWING NO.: TX-4750

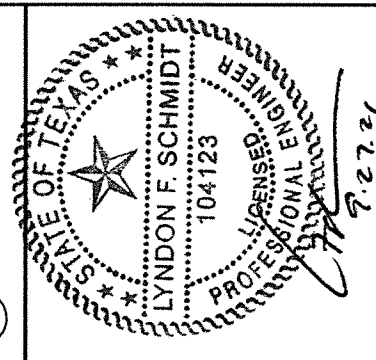
SHEET 7 of 11



**LATCH & DEADBOLT DETAIL**  
Schlage / Kwikset



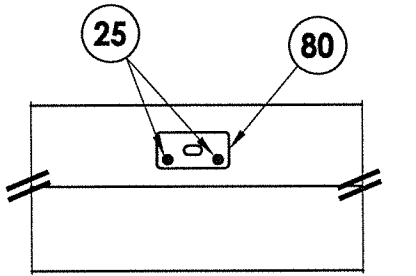
**LATCH & DEADBOLT DETAIL**  
Multipoint Lock



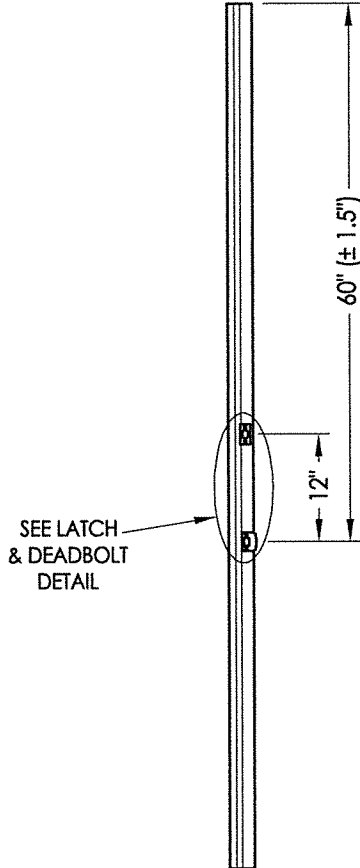
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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Phone No.: 813.659.9197

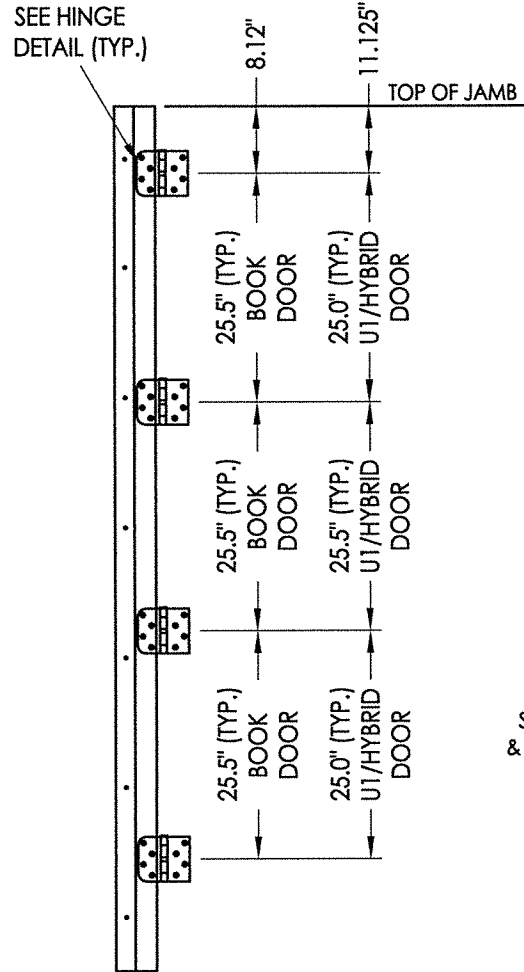
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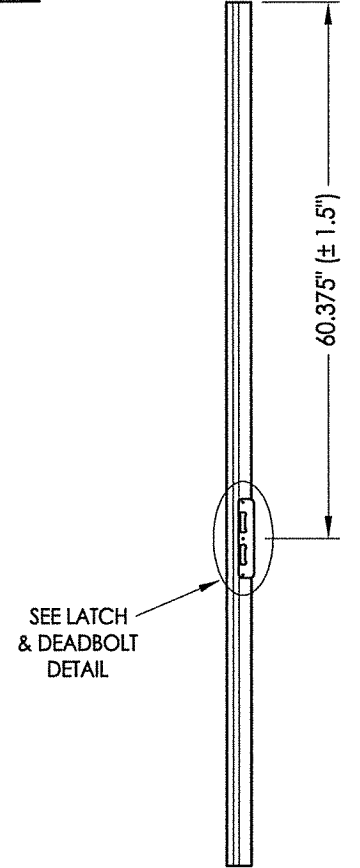
**DETAIL 1**  
Coastal Astragal Strike Plate @ Head



SEE LATCH & DEADBOLT DETAIL

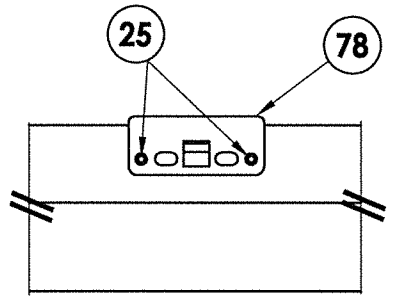


**HINGE JAMB**

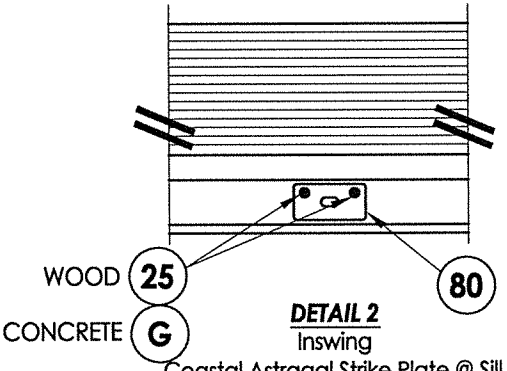


SEE LATCH & DEADBOLT DETAIL

**STRIKE JAMB**  
Multipoint Lock

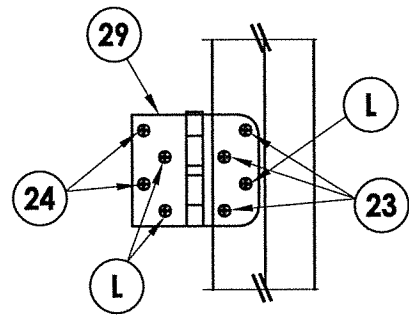


**DETAIL 1**  
Multipoint Lock Strike Plate @ Head

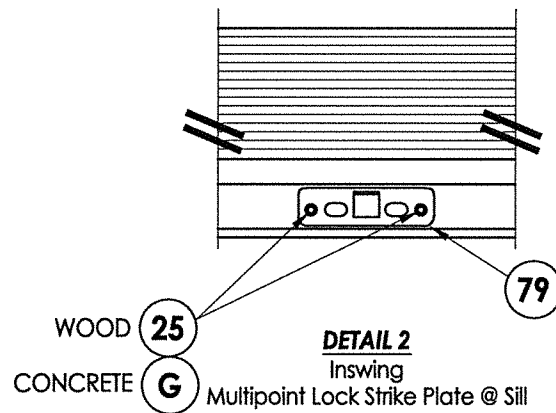


**DETAIL 2**  
Inswing  
Coastal Astragal Strike Plate @ Sill

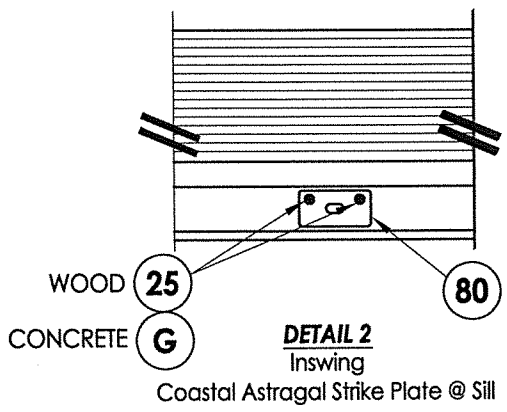
**STRIKE JAMB**  
Latch and Deadbolt



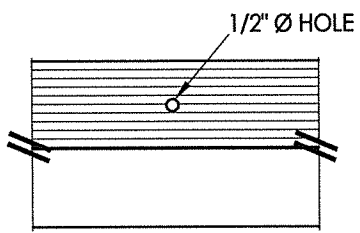
**HINGE DETAIL**



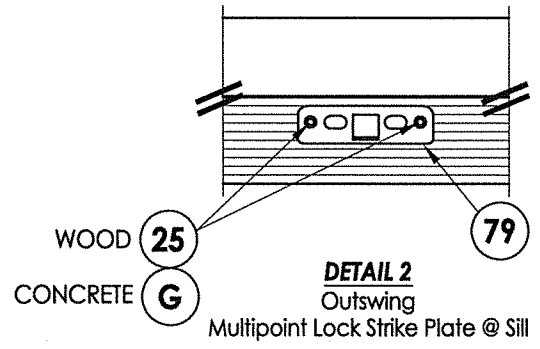
**DETAIL 2**  
Inswing  
Multipoint Lock Strike Plate @ Sill



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



**DETAIL 2**  
Outswing  
Astragal Bolt Hole @ Sill



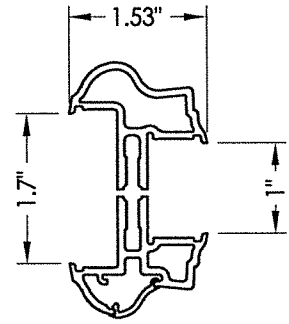
**DETAIL 2**  
Outswing  
Multipoint Lock Strike Plate @ Sill

**LATCH & DEADBOLT STRIKE DETAILS**

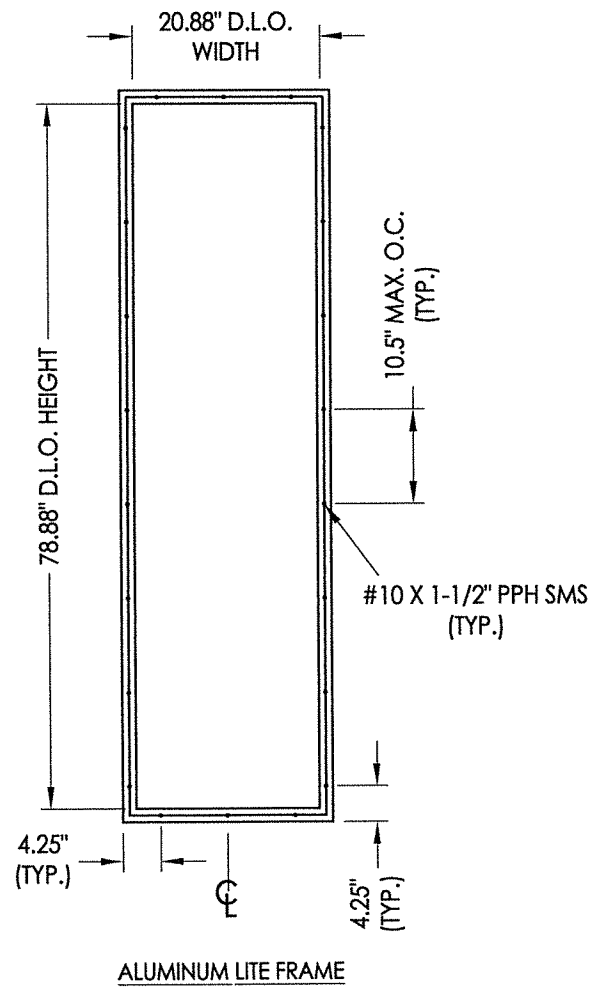
**MULTIPOINT LOCK STRIKE DETAILS**

PRODUCT:	Therma-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:	HARDWARE DETAILS	
NO.	DATE	DESCRIPTION
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE
		LFS
		BY
DATE: 10/24/17		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: TX-4750		
SHEET 8 OF 11		

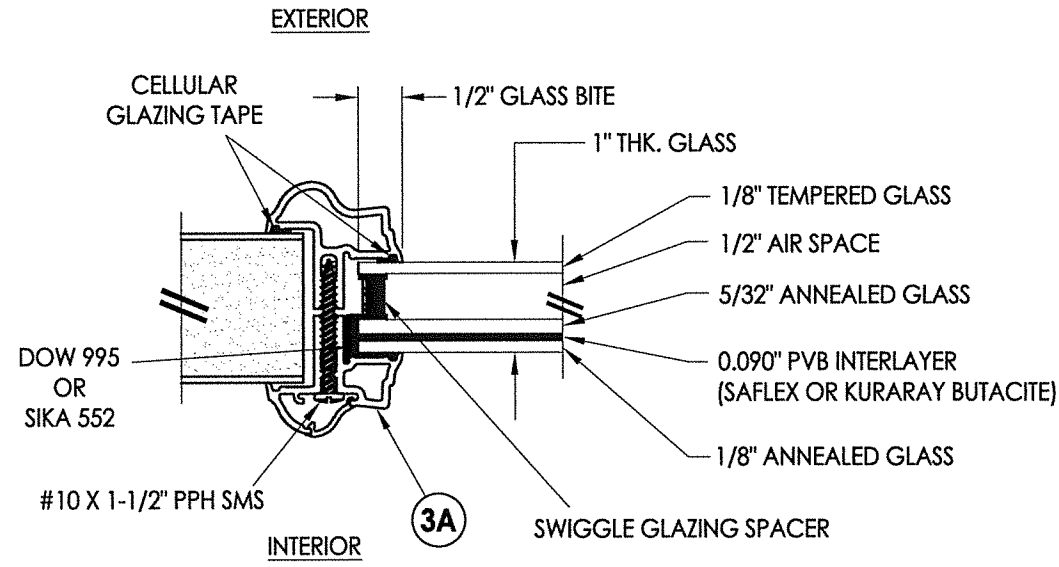




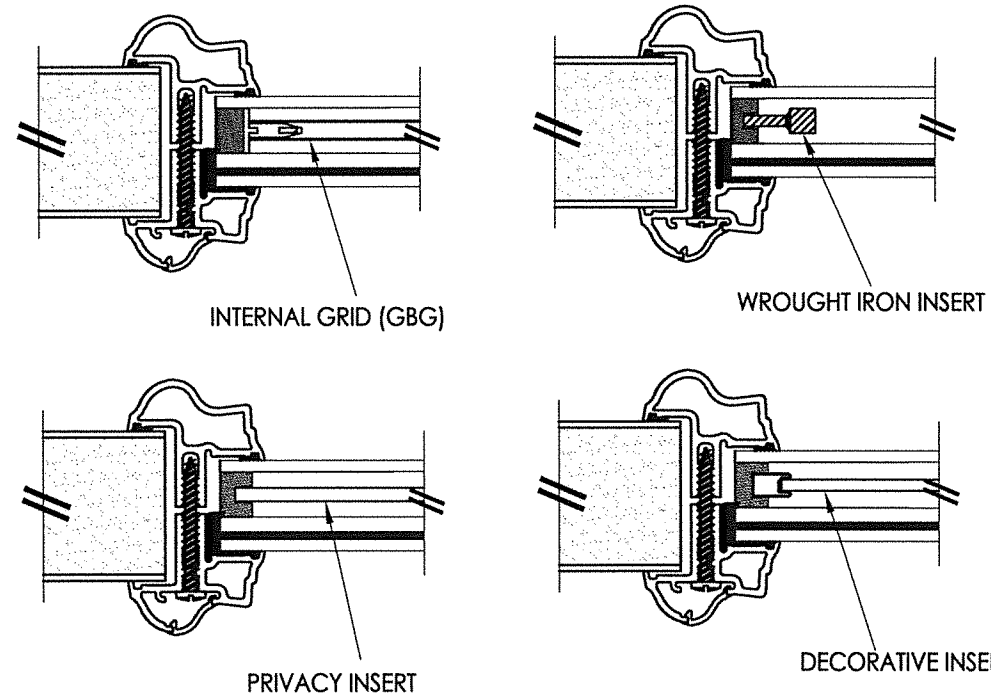
**3A ALUMINUM FRAME**  
Aluminum Impact Life Frame  
Door Panels & Sidelites



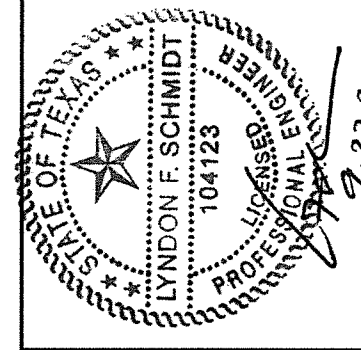
ALUMINUM LITE FRAME



**G1 GLAZING DETAIL**  
Aluminum Impact Life Frame  
Door Panels & Sidelites



1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS



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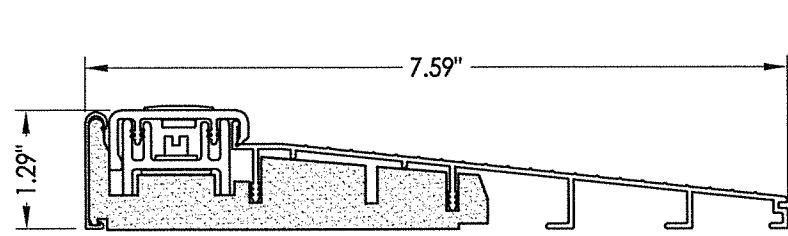
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

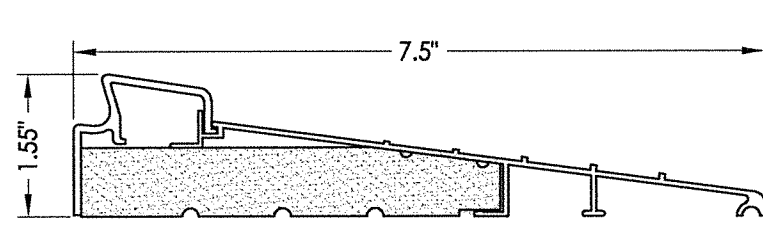
PART OR ASSEMBLY:  
GLAZING DETAILS

NO.	DATE	DESCRIPTION	BY
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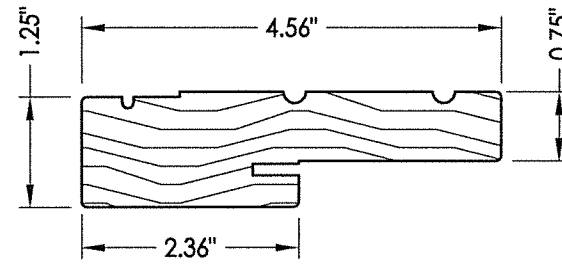
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SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4750  
SHEET 9 of 11



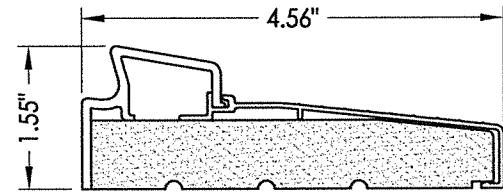
**32 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill 7-1/2"



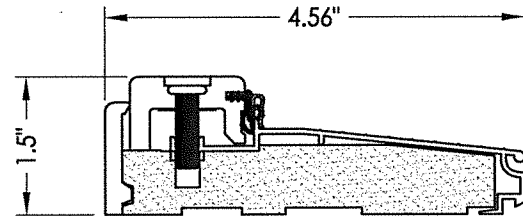
**37 INSWING THRESHOLD**  
Inswing Basic Fixed 7-1/2" Sill



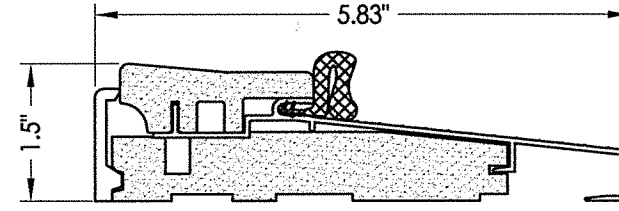
**1 WOOD JAMB**



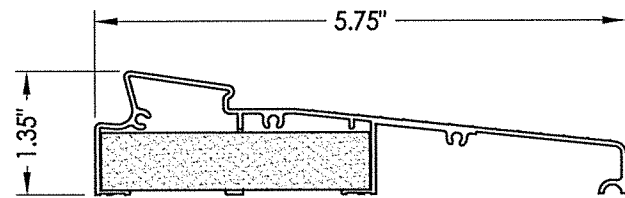
**33 INSWING THRESHOLD**  
Inswing Basic Fixed Sill



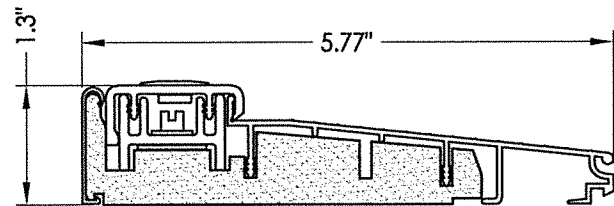
**38 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill



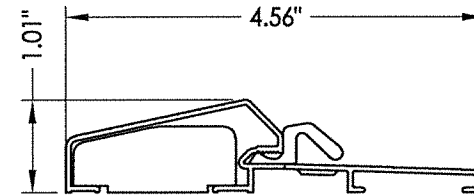
**16 OUTSWING THRESHOLD**  
Composite Sill



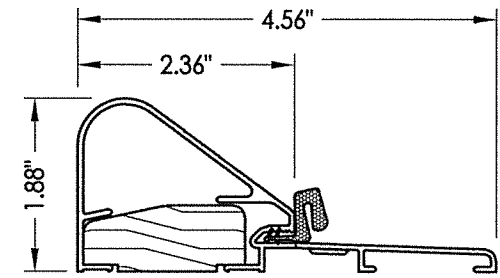
**34 INSWING THRESHOLD**  
Inswing Moderate Climate Sill 1-3/8"



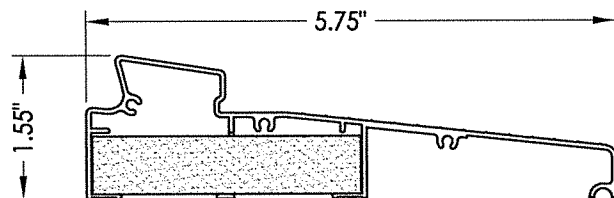
**39 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill



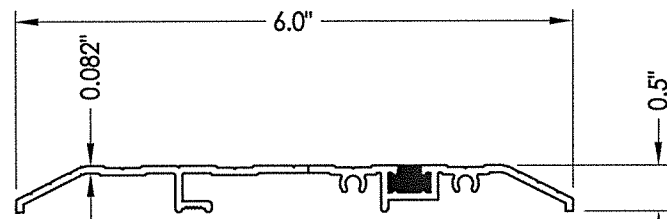
**17 OUTSWING THRESHOLD**  
Composite / Aluminum Sill



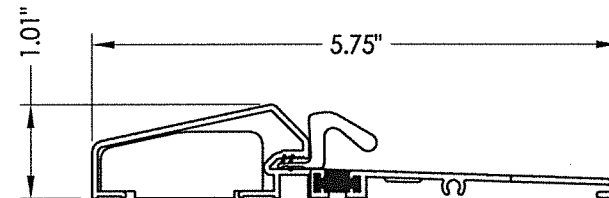
**19 COASTAL OUTSWING THRESHOLD**  
Wood / Aluminum Sill



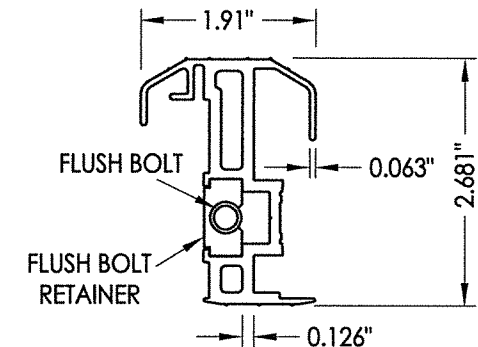
**35 INSWING THRESHOLD**  
Inswing Moderate Climate Sill



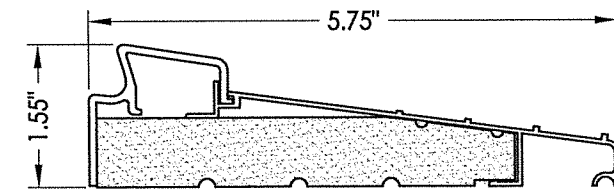
**15 PUBLIC ACCESS THRESHOLD**



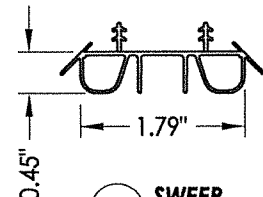
**18 OUTSWING THRESHOLD**  
Composite / Aluminum Sill  
(Thermal Break)



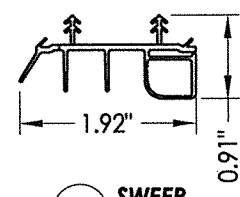
**20 COASTAL ALUMINUM ASTRAGAL**



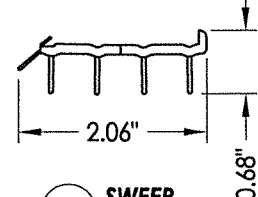
**36 INSWING THRESHOLD**  
Inswing Basic Fixed 5-3/4" Sill



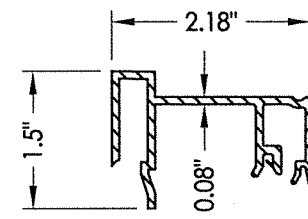
**8 SWEEP**



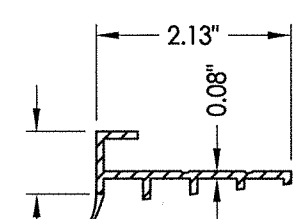
**9 SWEEP**



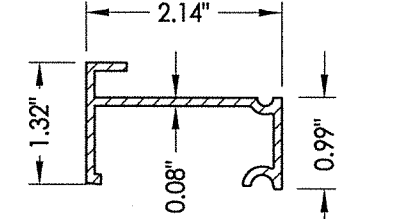
**10 SWEEP**



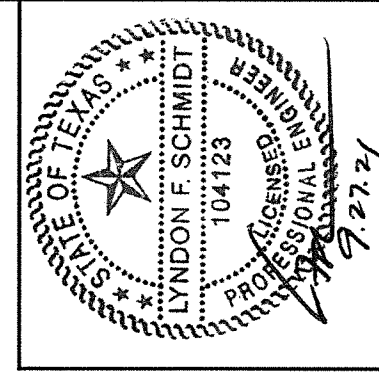
**75 SIDELITE SPACER**  
Inswing



**76 SIDELITE SPACER**  
Outswing



**77 SIDELITE SPACER**  
Inswing  
Moderate Climate Threshold



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

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

CERTIFICATE OF REGISTRATION # F-11852

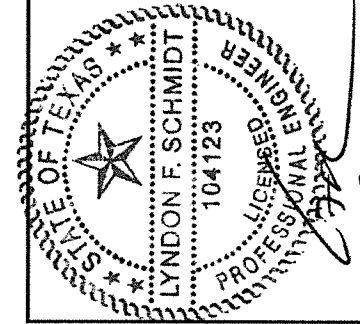
PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	COMPONENTS

NO.	DATE	DESCRIPTION	LFS	BY
1	9/27/21	UPDATE TO 2018 IBC/IRC CODE		

DATE:	10/24/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4750
SHEET	10 of 11

**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
G	3/16" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
K	#12 PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
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
11	#10 X 1-1/2" PPH SMS	STEEL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP
19	COASTAL OUTSWING THRESHOLD	ALUM/WOOD
20	COASTAL ALUMINUM ASTRAGAL	ALUM
23	#10 x 3/4" PFH WOOD SCREW	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL
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
29	4" X 4" HINGE	STEEL
30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
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)	-
50	SIDELITE	-
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC
77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
78	MULTIPOINT LOCK STRIKE PLATE @ HEAD	STEEL
79	MULTIPOINT LOCK STRIKE PLATE @ SILL	STEEL
80	ASTRAGAL STRIKE PLATE	STEEL
88	2X MULLION (SG >= 0.55)	WOOD



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: BILL OF MATERIALS

NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS	BY
1	9/27/21			

DATE: 10/24/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4750  
SHEET 11 of 11

**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"	1-3/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	4"
ITW TAPCON®	3/16"	1-3/4"	3"	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.