

THERMA-TRU[®] DOORS

Fiber-Classic[®] & Smooth-Star[®]

COMPOSITE EDGE OPAQUE FIBERGLASS SINGLE DOOR w/ TRANSOM & SIDELITE(S) IN SWING/OUT SWING "NON-IMPACT"

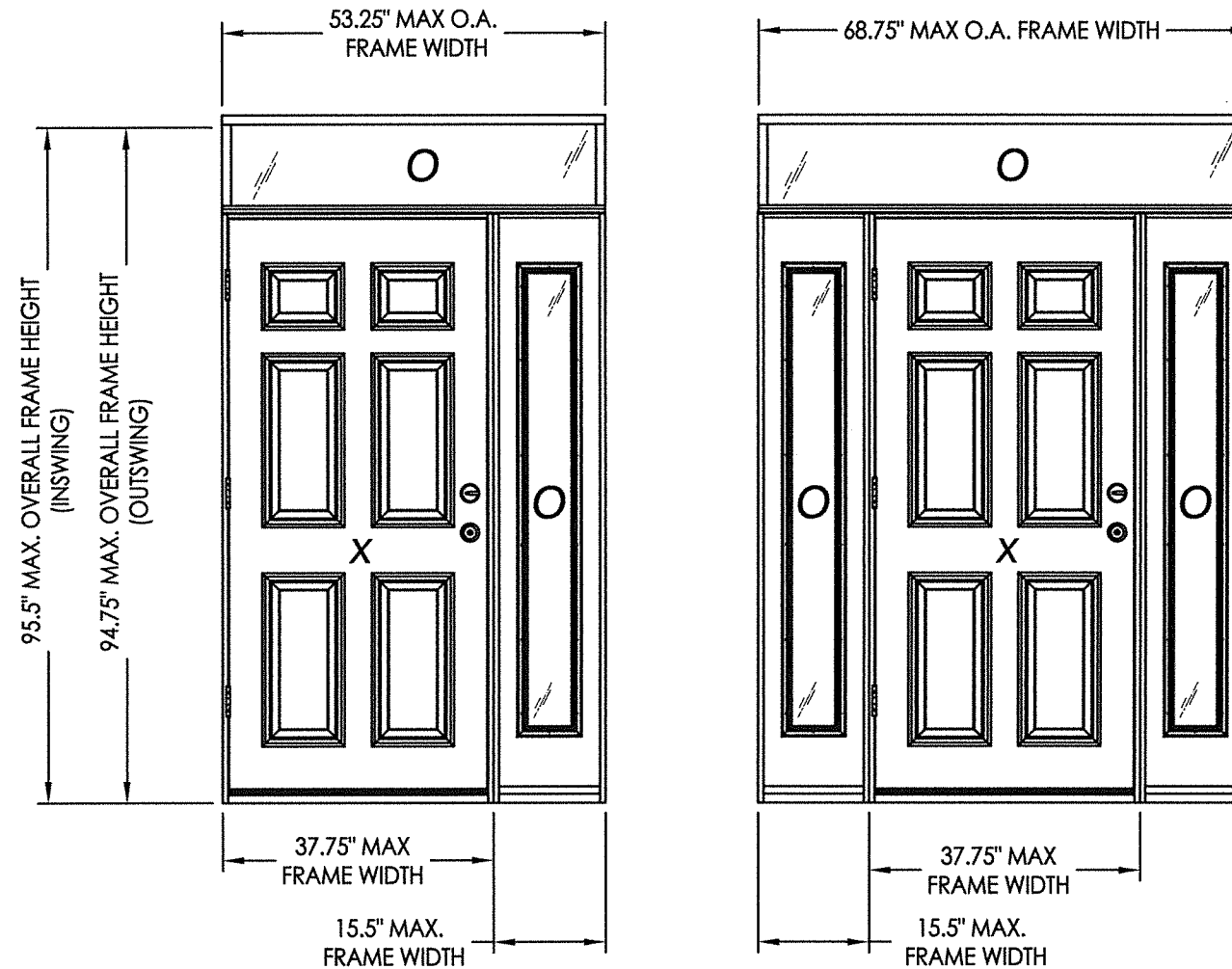
EVALUATED FOR USE IN THE STATE OF TEXAS

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:

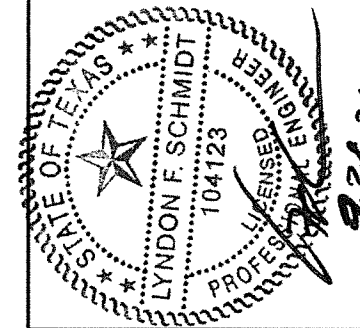
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section 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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5	Elevations
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7	Vertical Cross Sections (Thresholds)
8	Frame Anchoring
9	Hardware Details
10	Glazing Details
11	Components
12	Bill of Materials



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

See Sheet 5 for Hardware Specifications



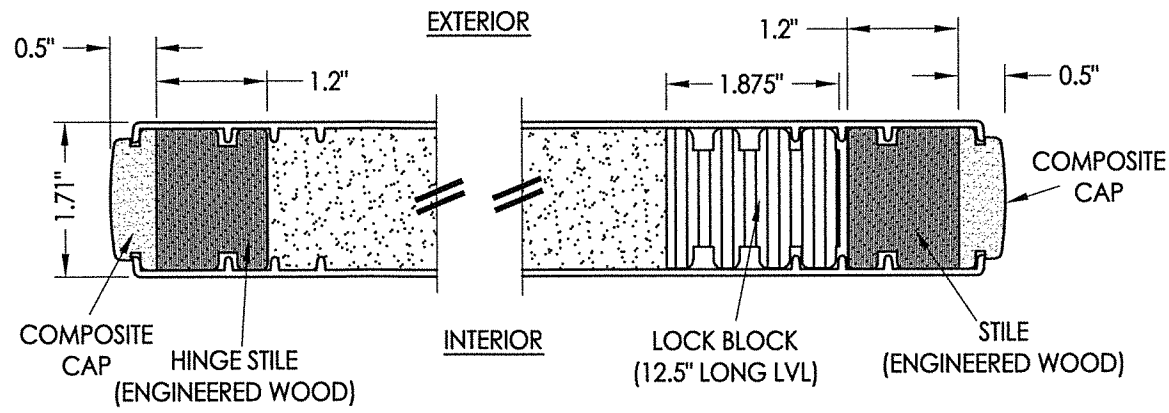
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

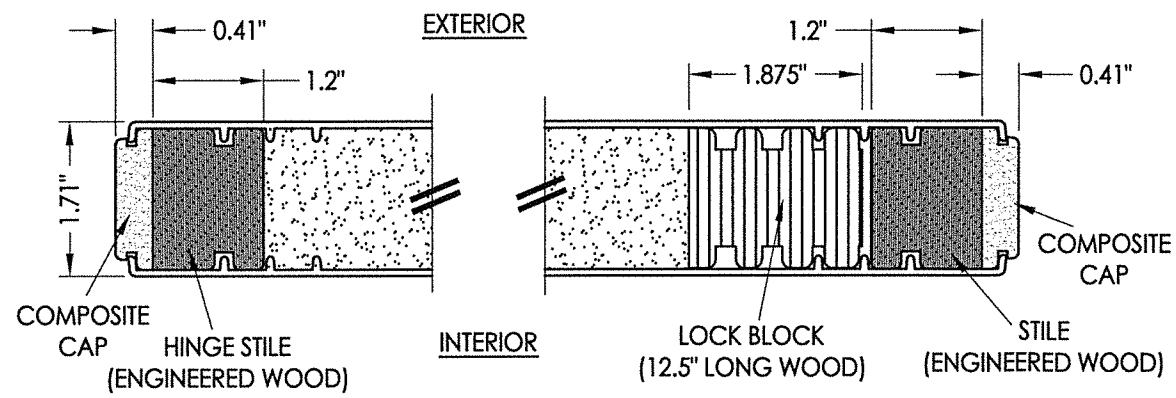
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4725
SHEET	1 OF 12

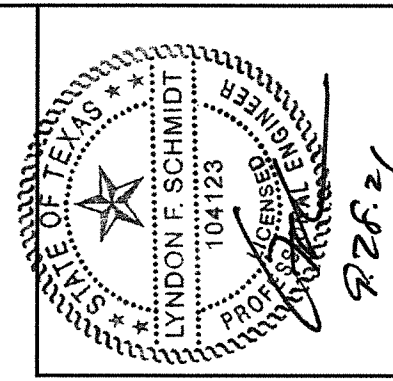
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 947 - 6'8 & 8'0 Opaque Comp Edge Non-Impact (TX 4716 - 4727)\C - Drawings\TX-4724-25.dwg



1
2 HORIZONTAL CROSS SECTION



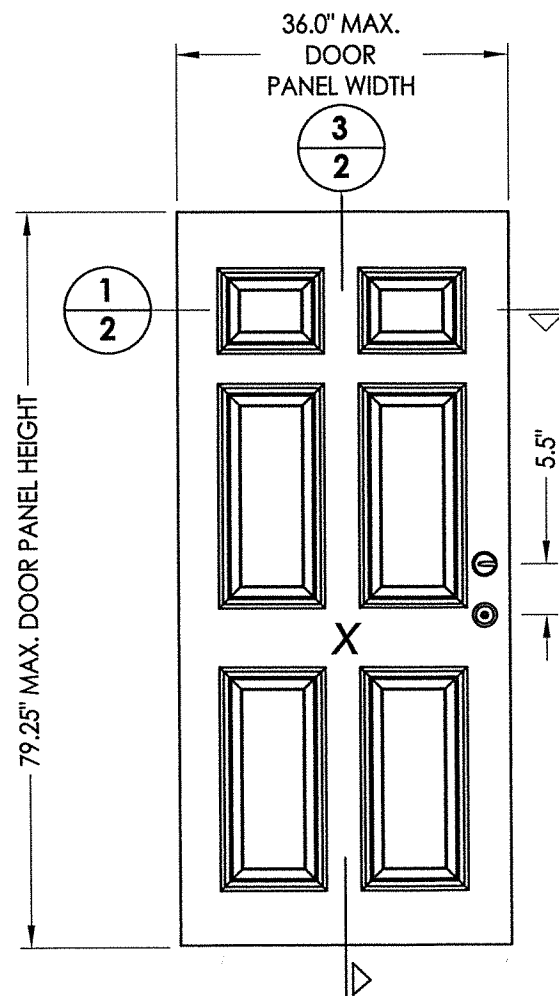
2
2 HORIZONTAL CROSS SECTION



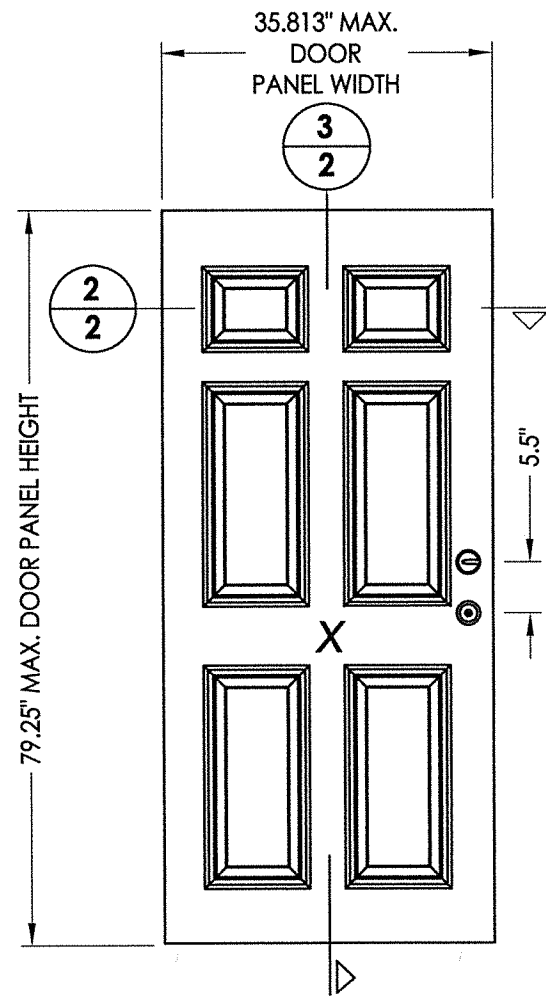
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Phone No.: 813.659.9197

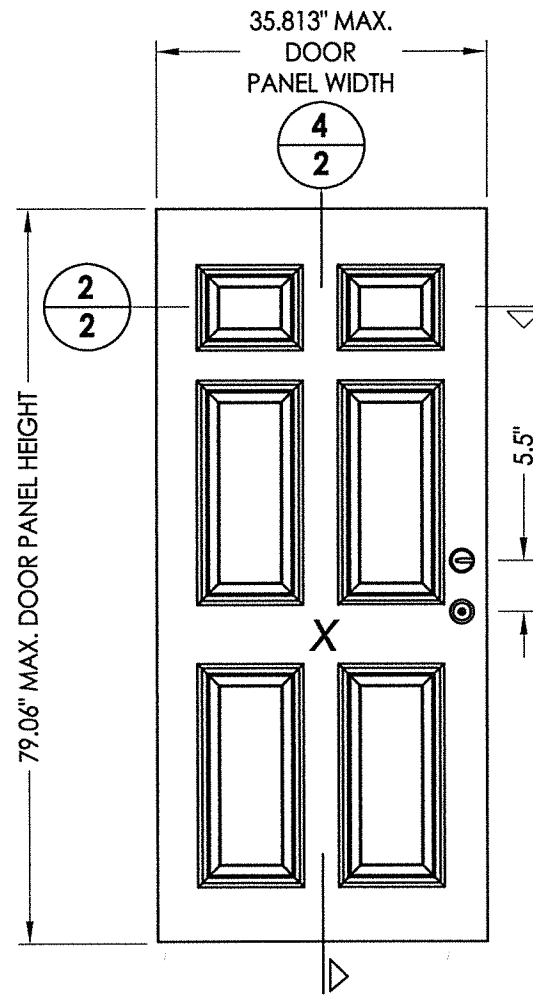
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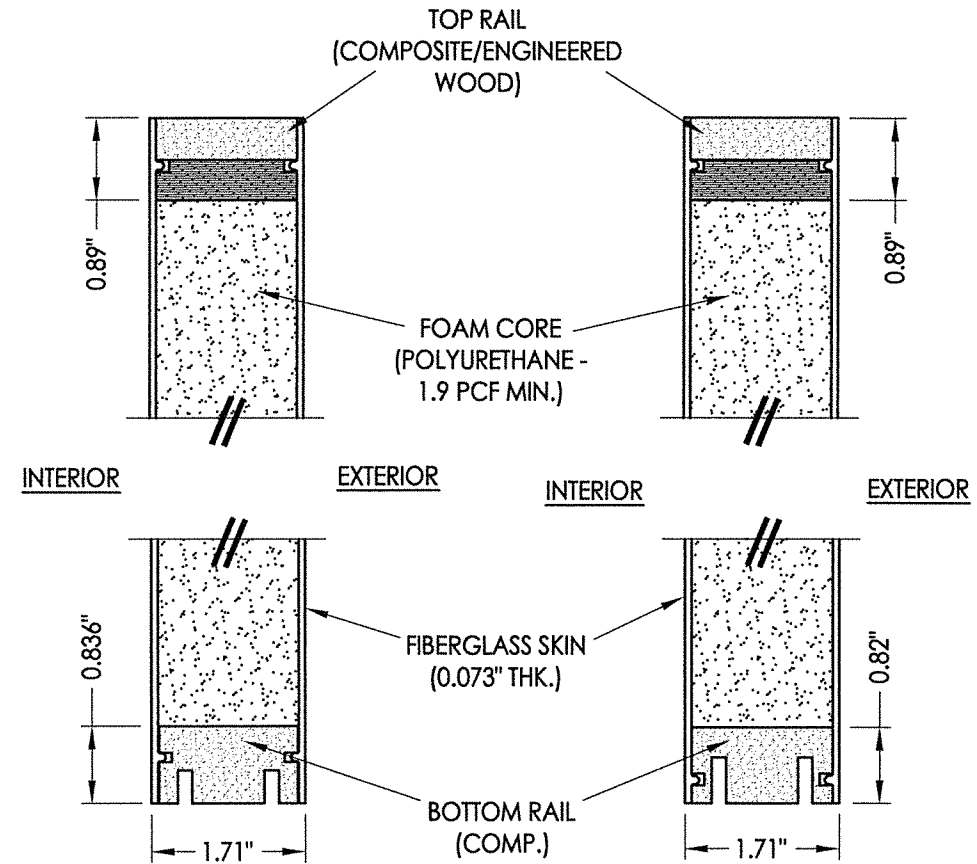
40 DOOR PANEL BOOK



41 DOOR PANEL Hybrid Door



42 DOOR PANEL U1 Door



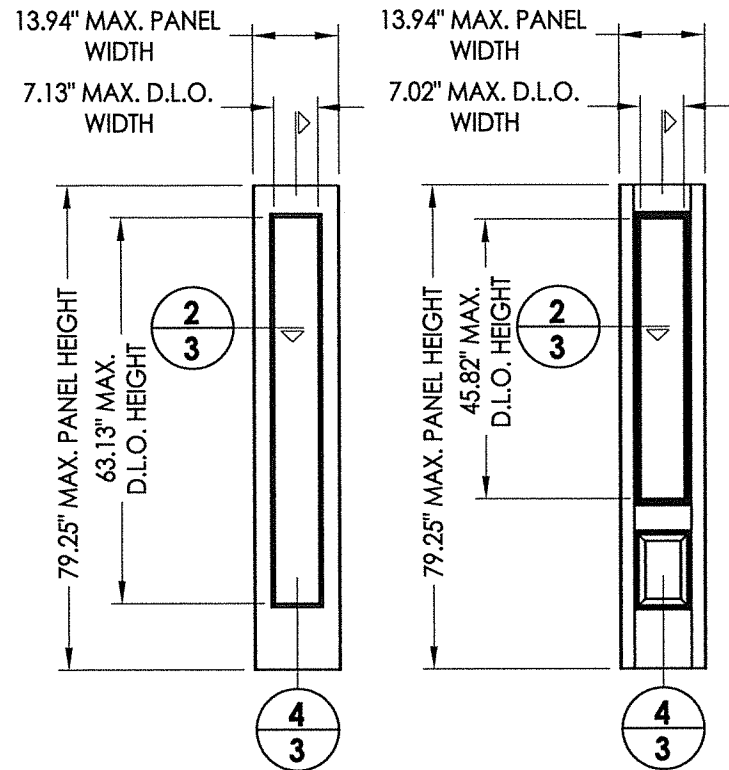
3
2 VERTICAL CROSS SECTION

4
2 VERTICAL CROSS SECTION

PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	DOOR PANEL DETAILS

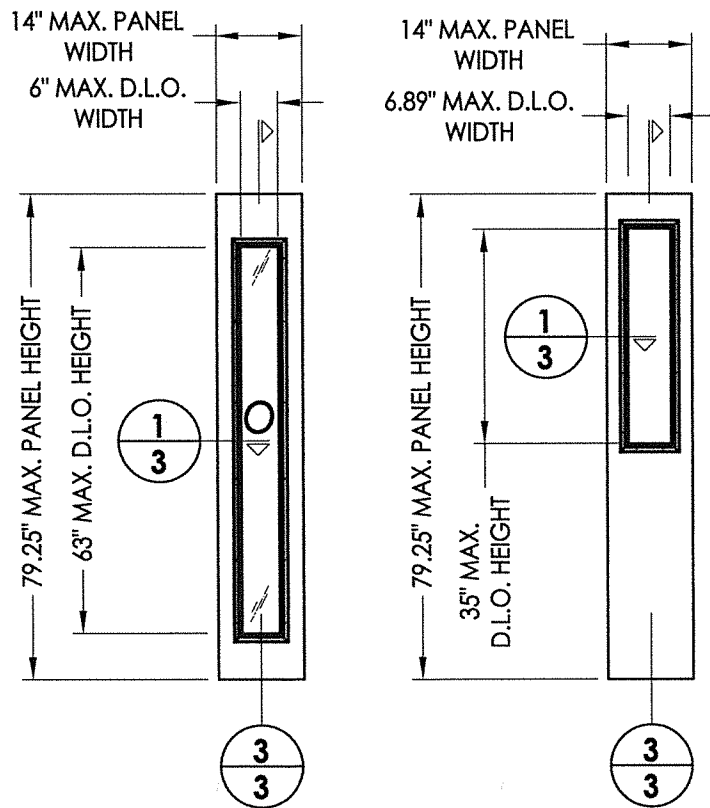
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DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4725
SHEET	2 OF 12



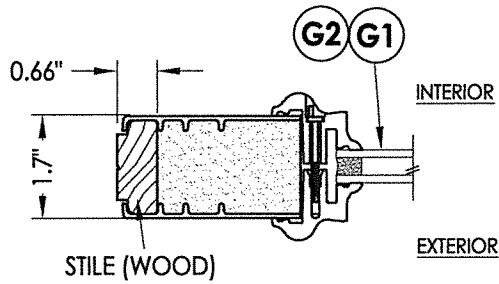
60 SIDELITE PANEL
Full Lite
Flush Glazed

60 SIDELITE PANEL
3/4 Lite
Flush Glazed

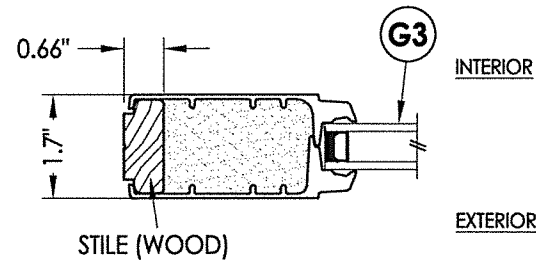


50 SIDELITE PANEL
Full Lite
Lip Lite

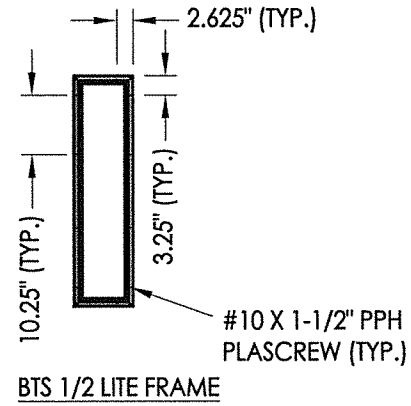
50 SIDELITE PANEL
Half Lite
Lip Lite



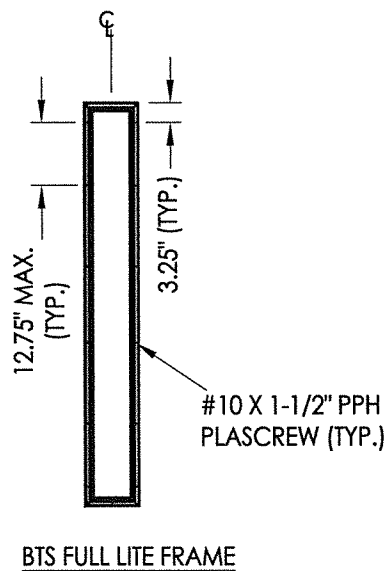
1 HORIZONTAL CROSS SECTION
3 Lip Lite Glazing



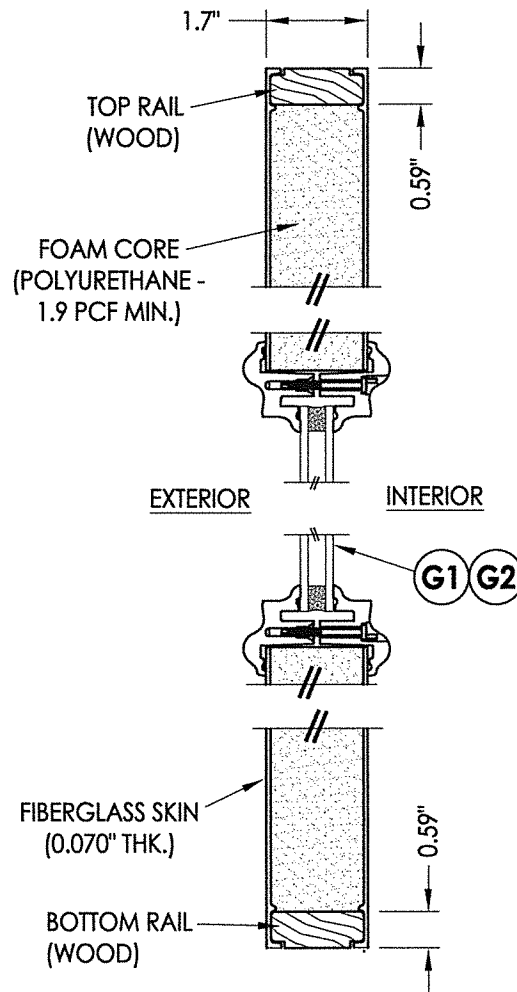
2 HORIZONTAL CROSS SECTION
3 Flush Glazing



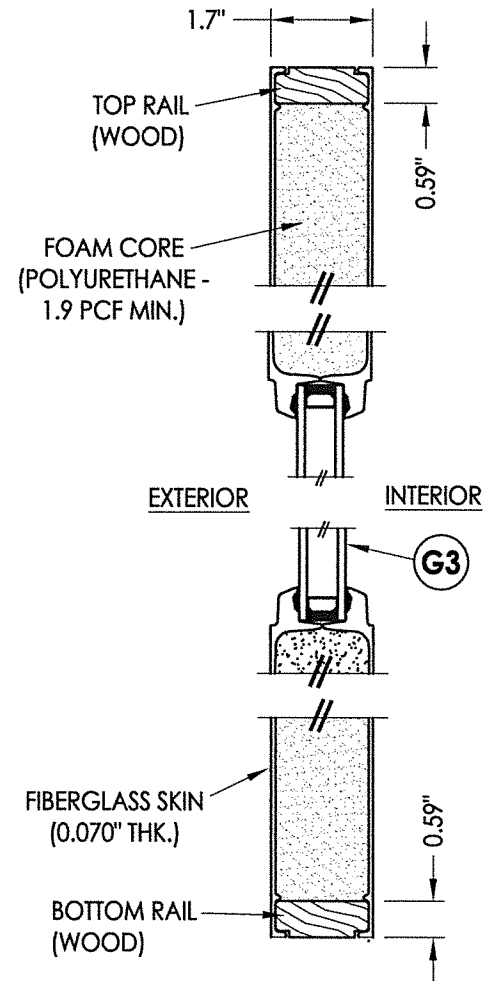
3 BTS 1/2 LITE FRAME



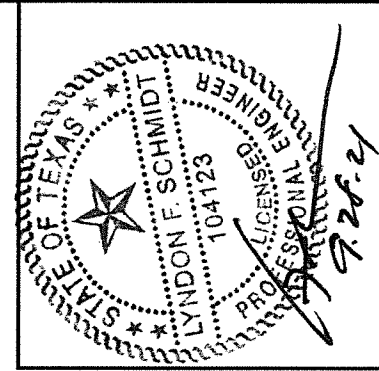
3 BTS FULL LITE FRAME



3 VERTICAL CROSS SECTION
3 Lip Lite Glazing Shown



4 VERTICAL CROSS SECTION
3 Flush Glazing Shown

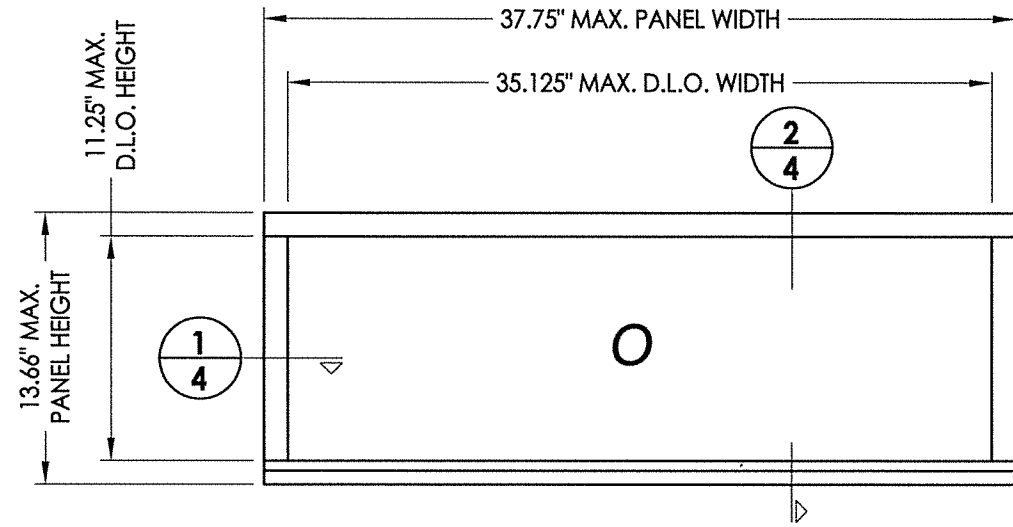


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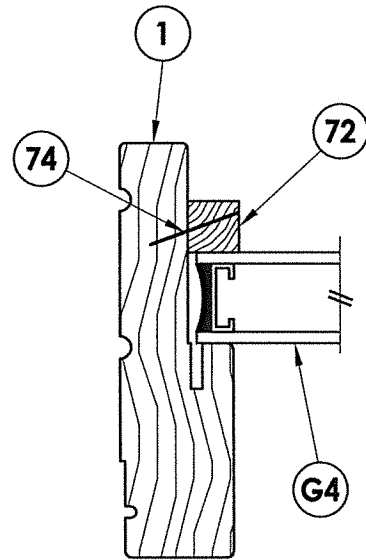
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Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

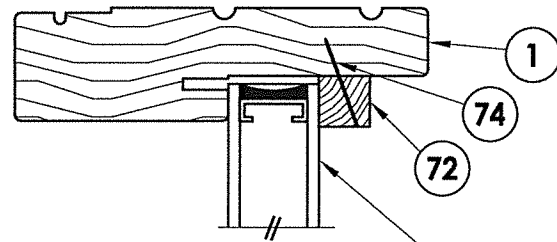
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NO.	DATE	BY	REVISIONS
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DATE: 11/14/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4725			
SHEET 3 OF 12			



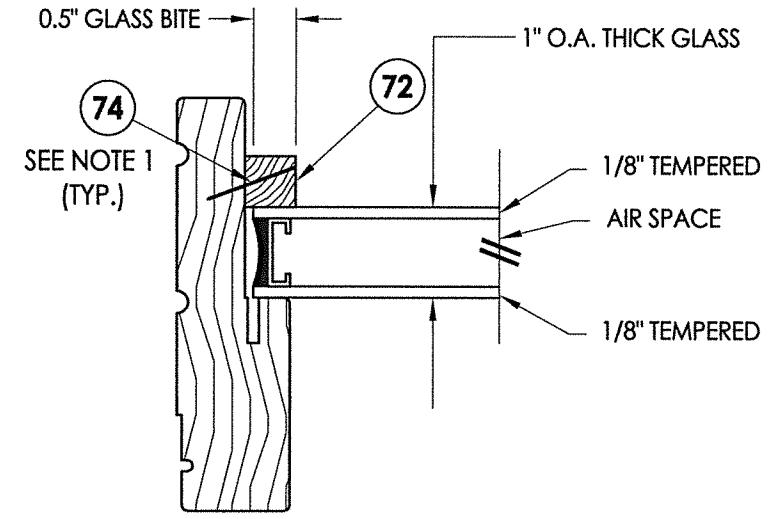
70 TRANSOM



1
4 HORIZONTAL CROSS SECTION

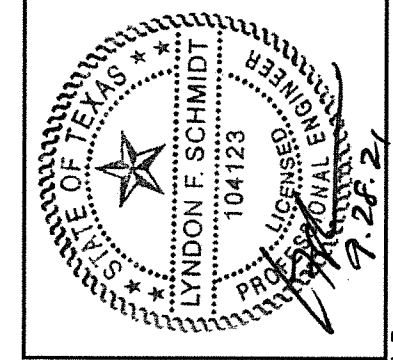


2
4 VERTICAL CROSS SECTION



G4 GLAZING DETAIL

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

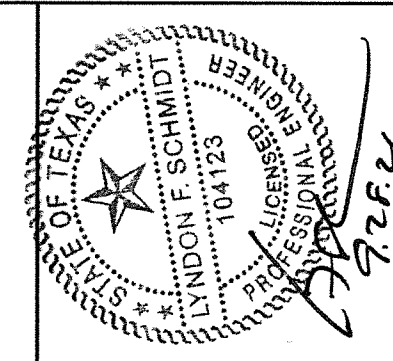
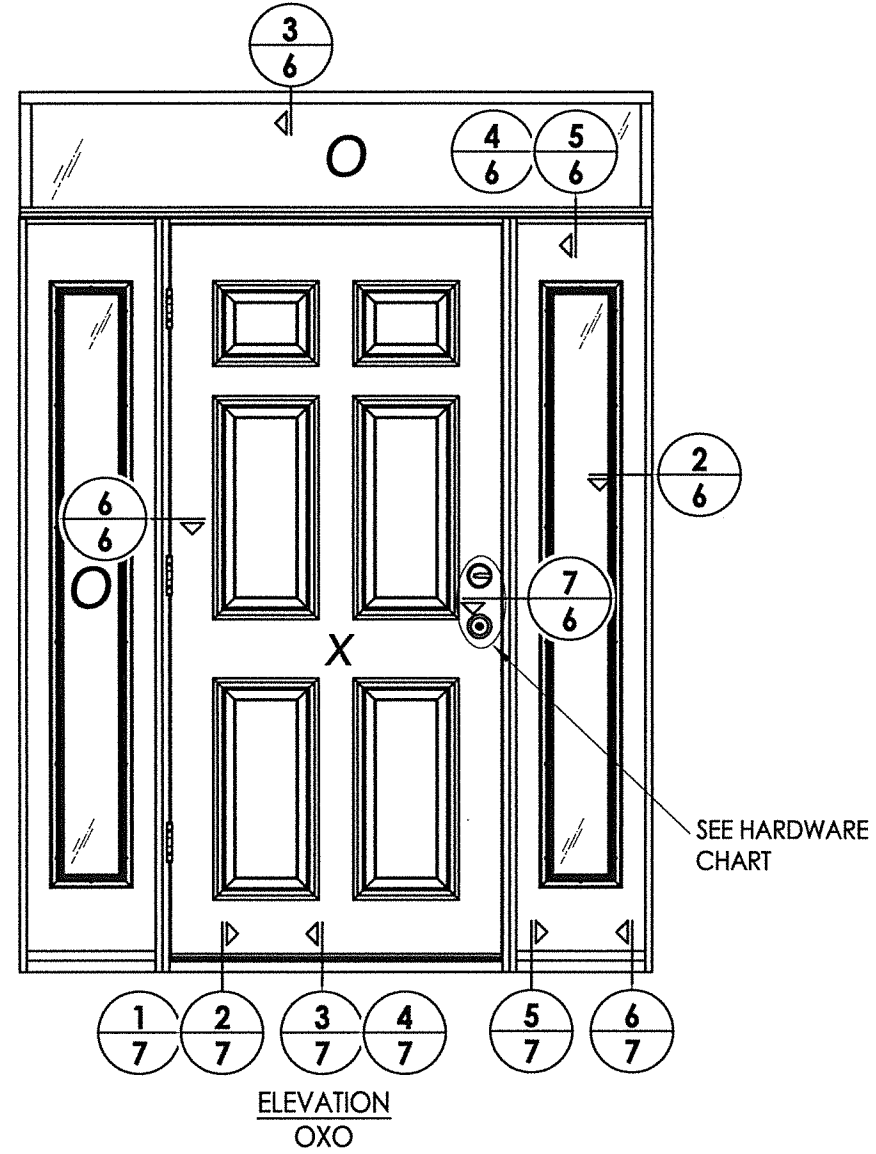
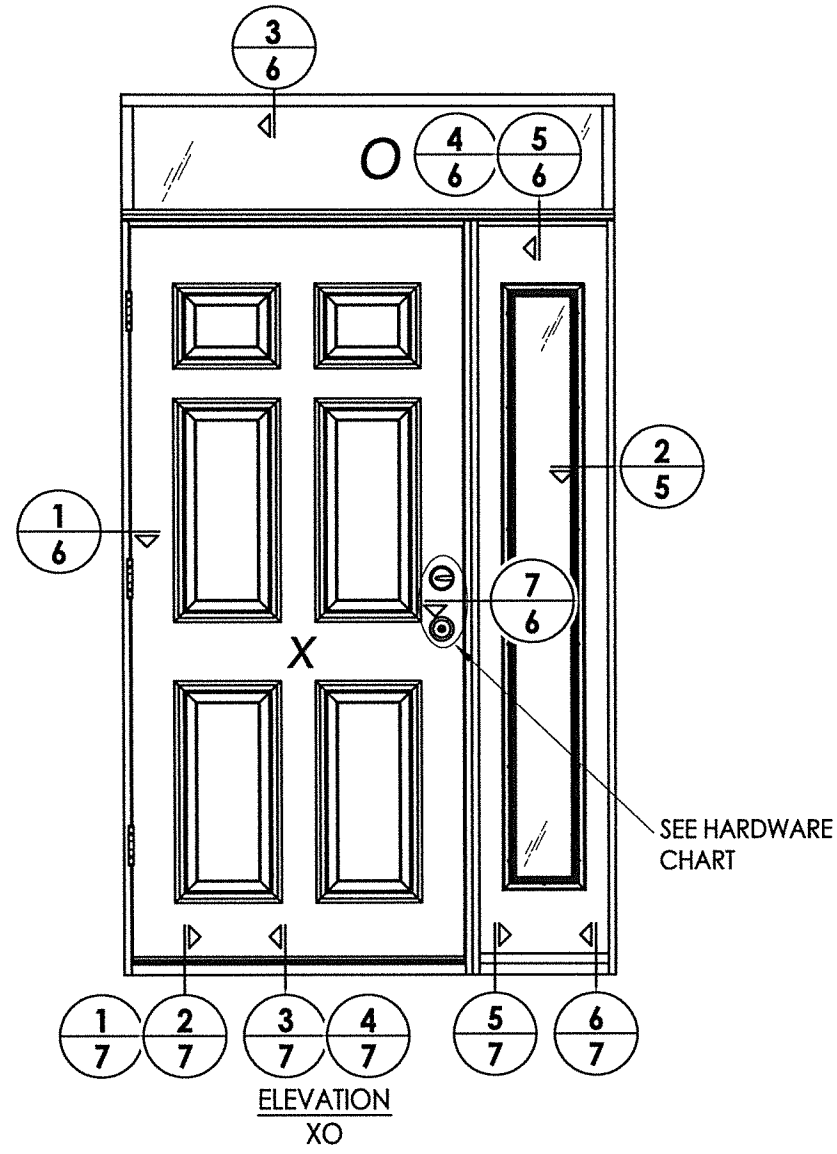


Documents Prepared By: Lyndon F. Schmidt, P.E.
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
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-4725			
SHEET 4 OF 12			



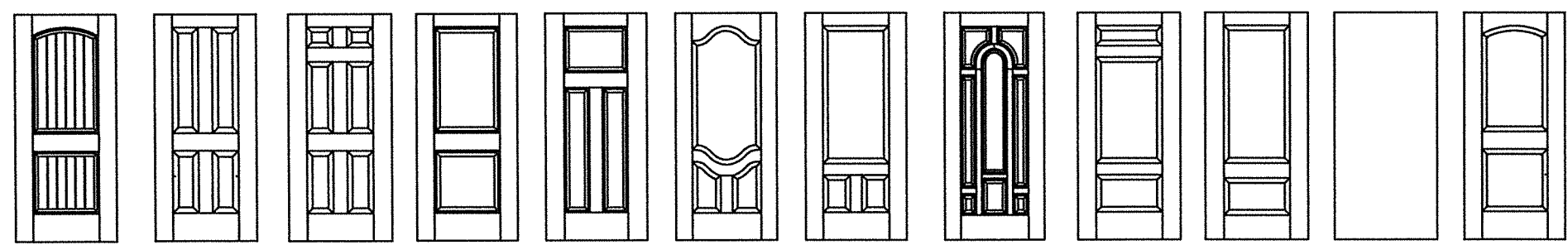
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Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

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

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

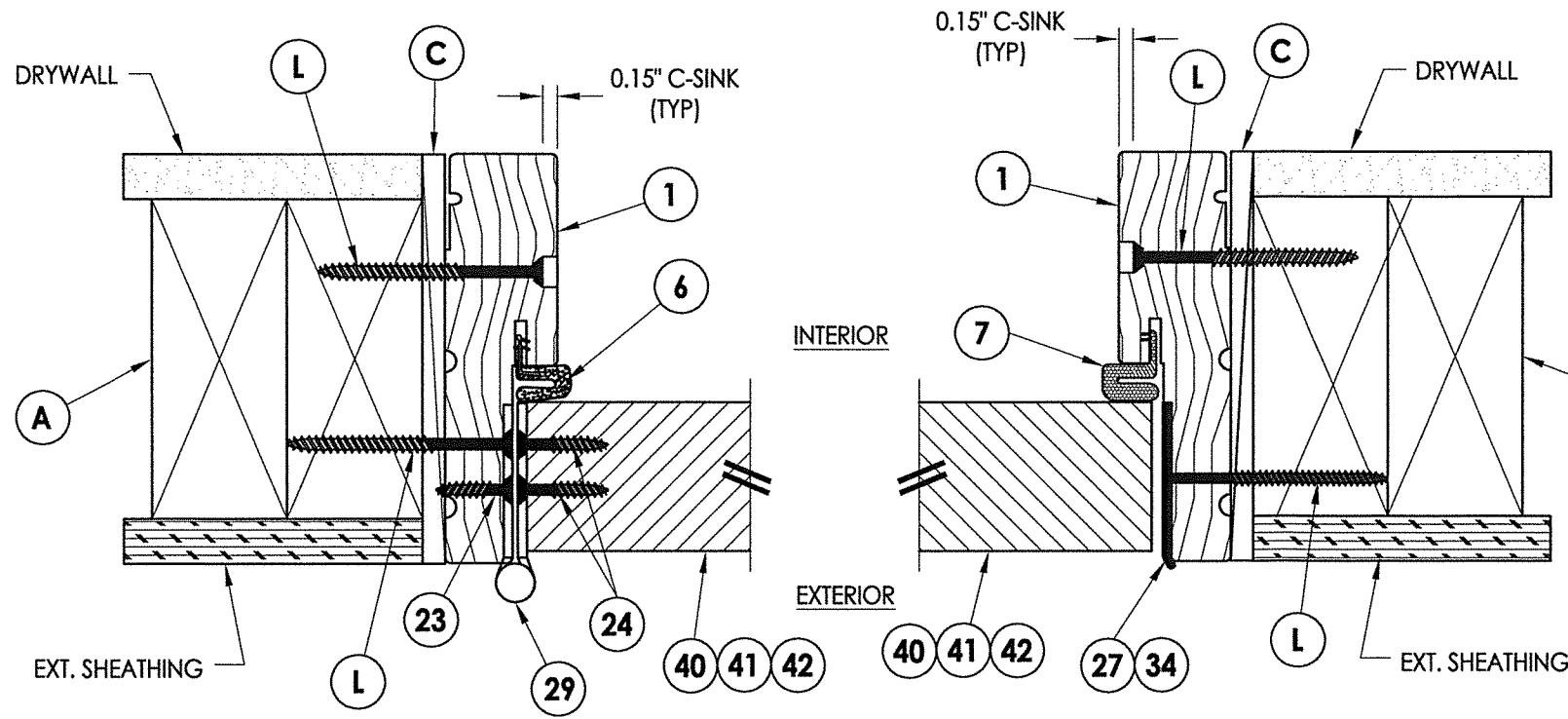


Fiber-Classic/Smooth-Star Door Panel Options
Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

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

DATE: 11/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4725
SHEET 5 of 12

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

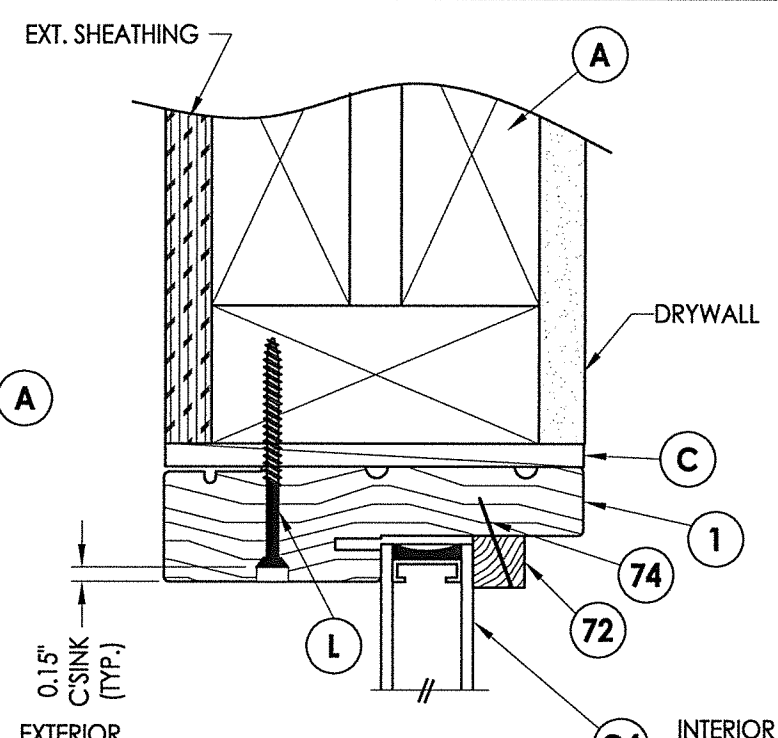


1 HORIZONTAL CROSS SECTION
6 Outswing shown (Inswing similar)

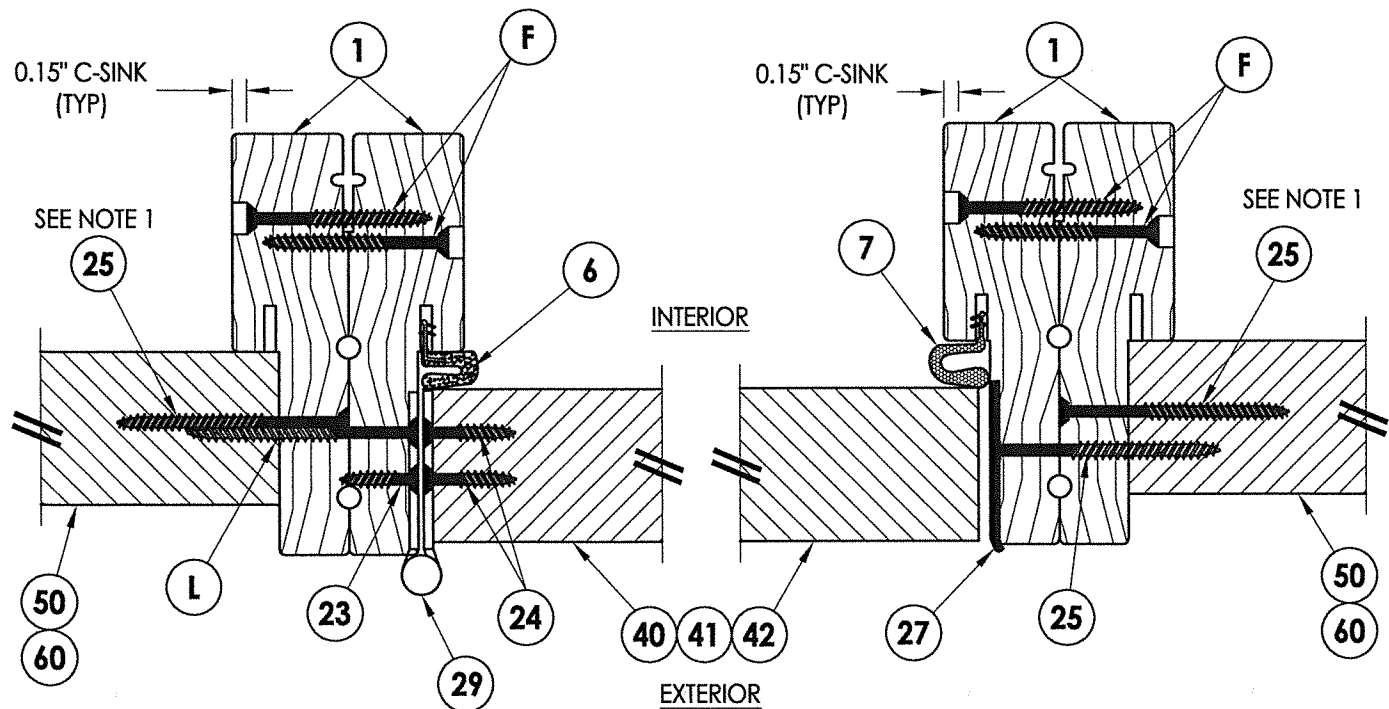
2 HORIZONTAL CROSS SECTION
6 Outswing shown (Inswing similar)

Note:

- Sidelite assembly screws located 14" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
- Transom sill attached to door header w/ item #20 or #21 spaced 6" o.c.

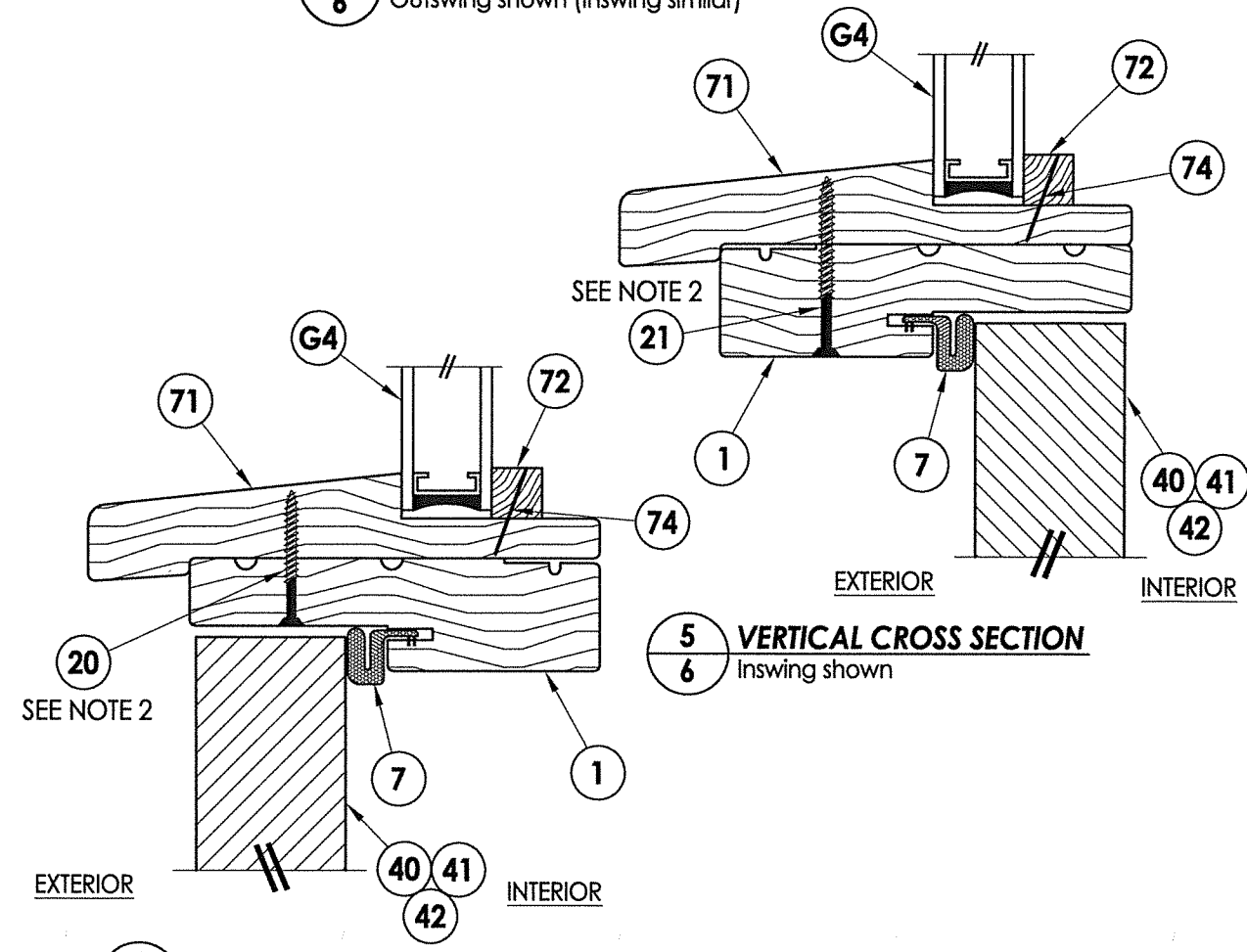


3 HORIZONTAL CROSS SECTION
6 Outswing shown (Inswing similar)



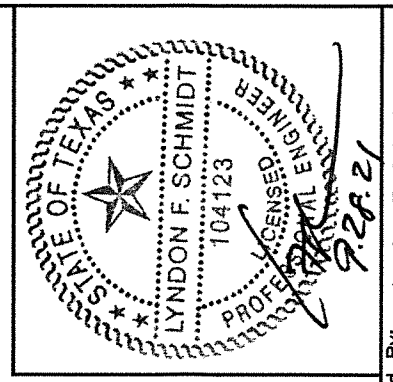
6 HORIZONTAL CROSS SECTION
6 Outswing shown (Inswing similar)

7 HORIZONTAL CROSS SECTION
6 Outswing shown (Inswing similar)



4 VERTICAL CROSS SECTION
6 Outswing shown

5 VERTICAL CROSS SECTION
6 Inswing shown



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CERTIFICATE OF REGISTRATION # F-11852

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

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

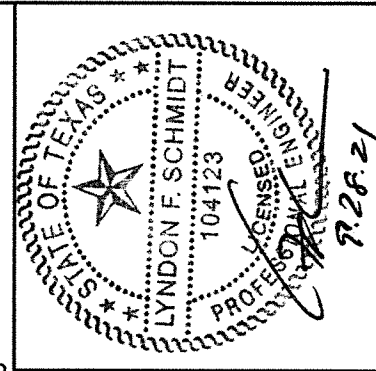
DATE: 11/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4725
SHEET 6 OF 12

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

Notes:

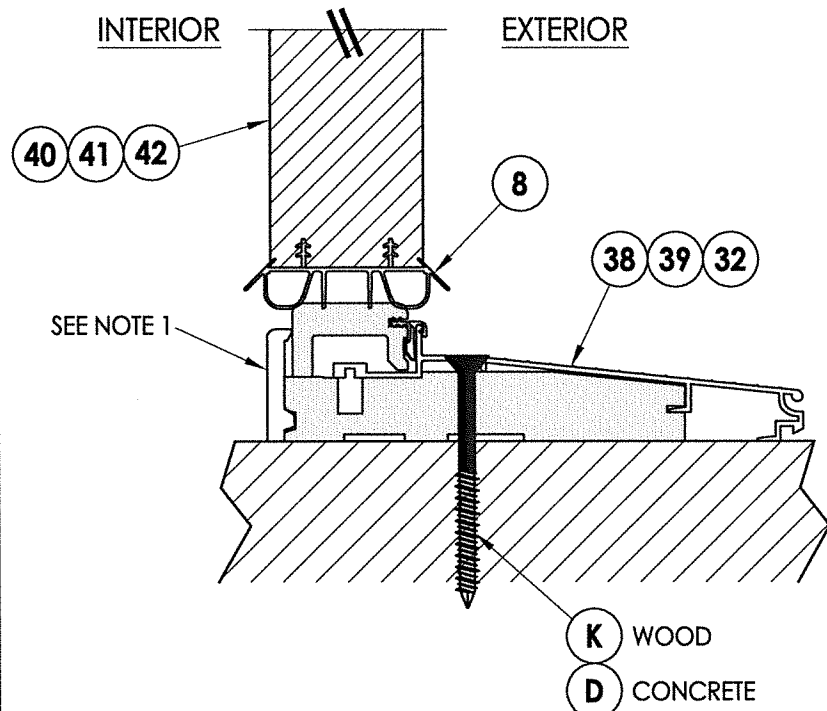
- Sill Item #'s 16, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 17 & 18 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
- Sidelite assembly screws located 4" from each end (2 screws along sill).



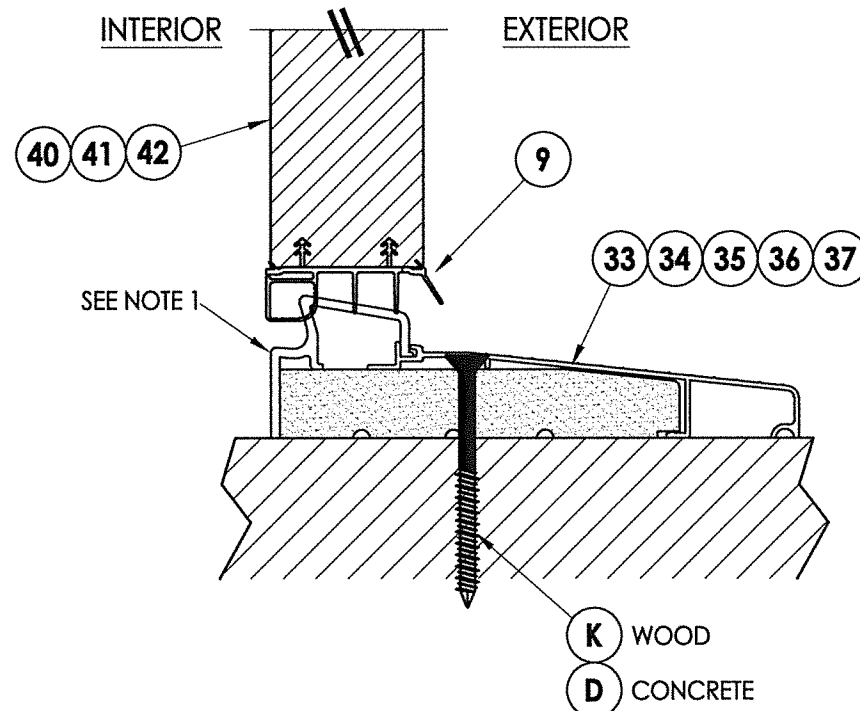
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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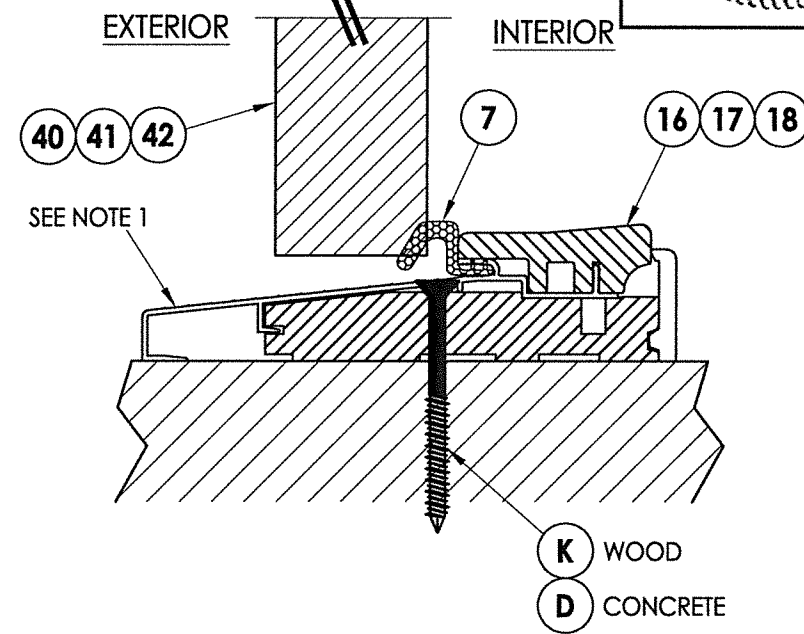
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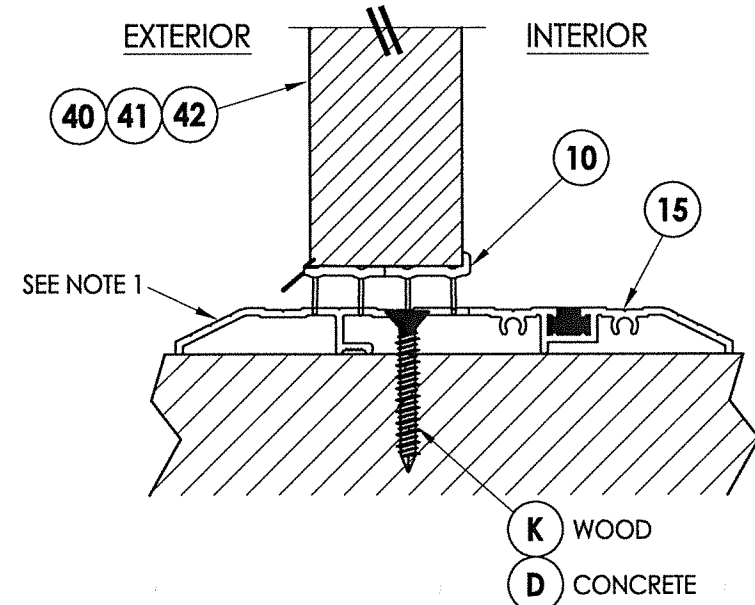
1 VERTICAL CROSS SECTION
7 Inswing Sill



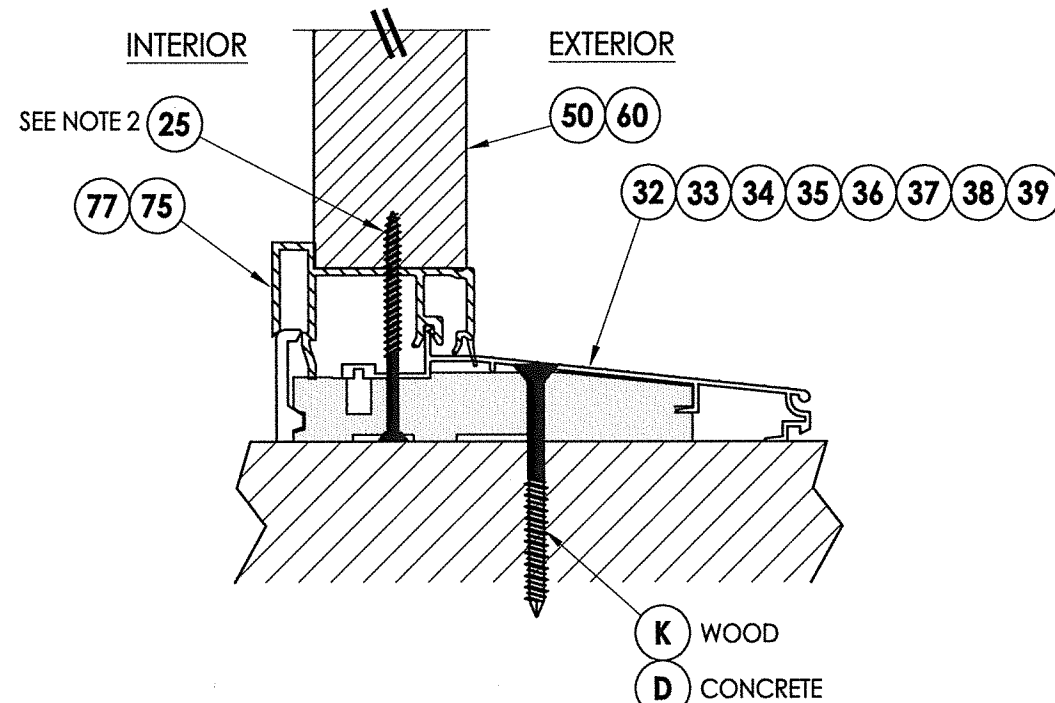
2 VERTICAL CROSS SECTION
7 Inswing Sill



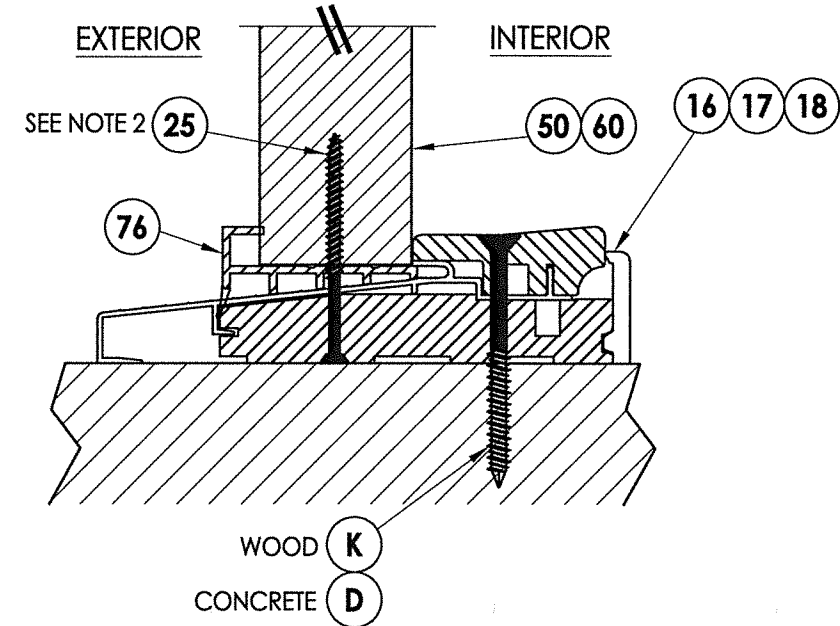
3 VERTICAL CROSS SECTION
7 Outswing Sill



4 VERTICAL CROSS SECTION
7 Public Access Sill

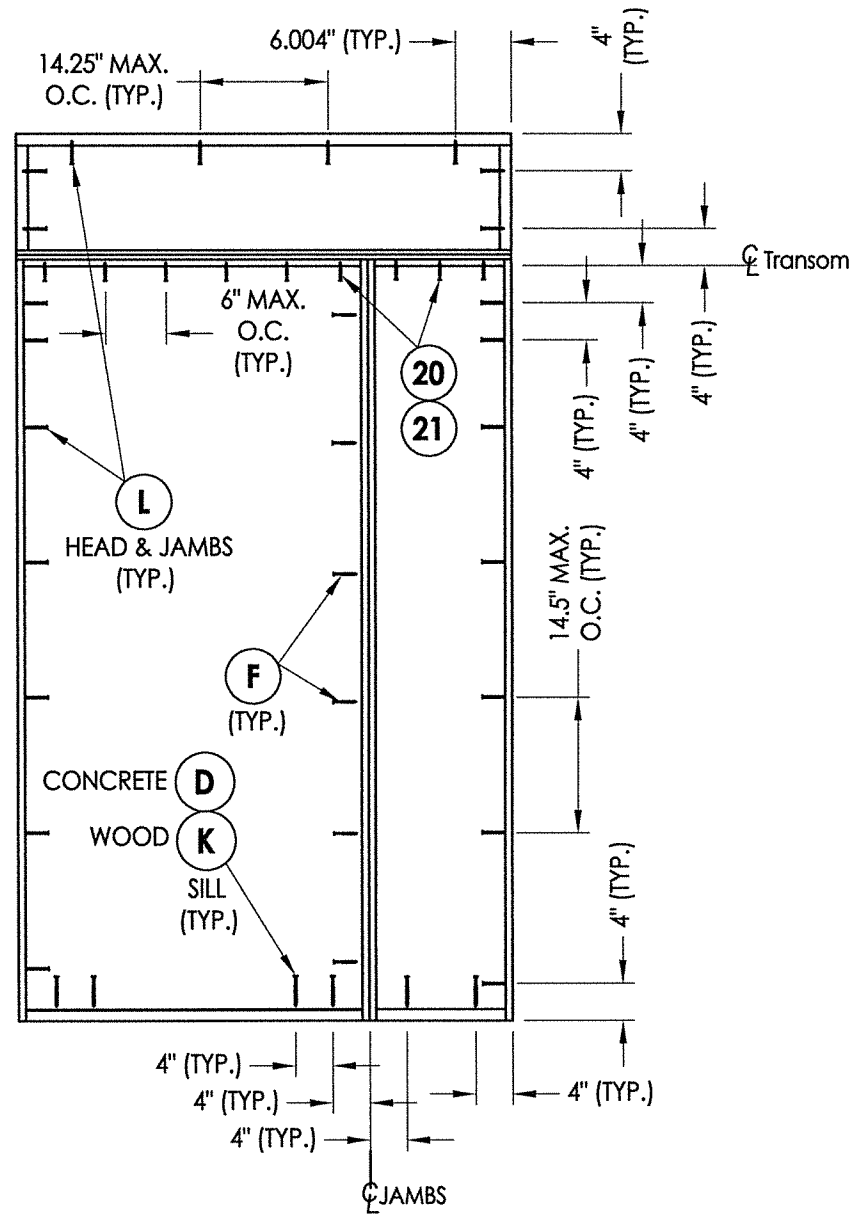
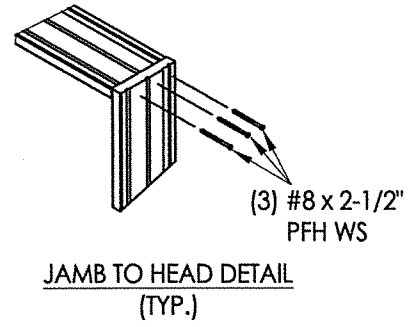


5 VERTICAL CROSS SECTION
7 Inswing Sill

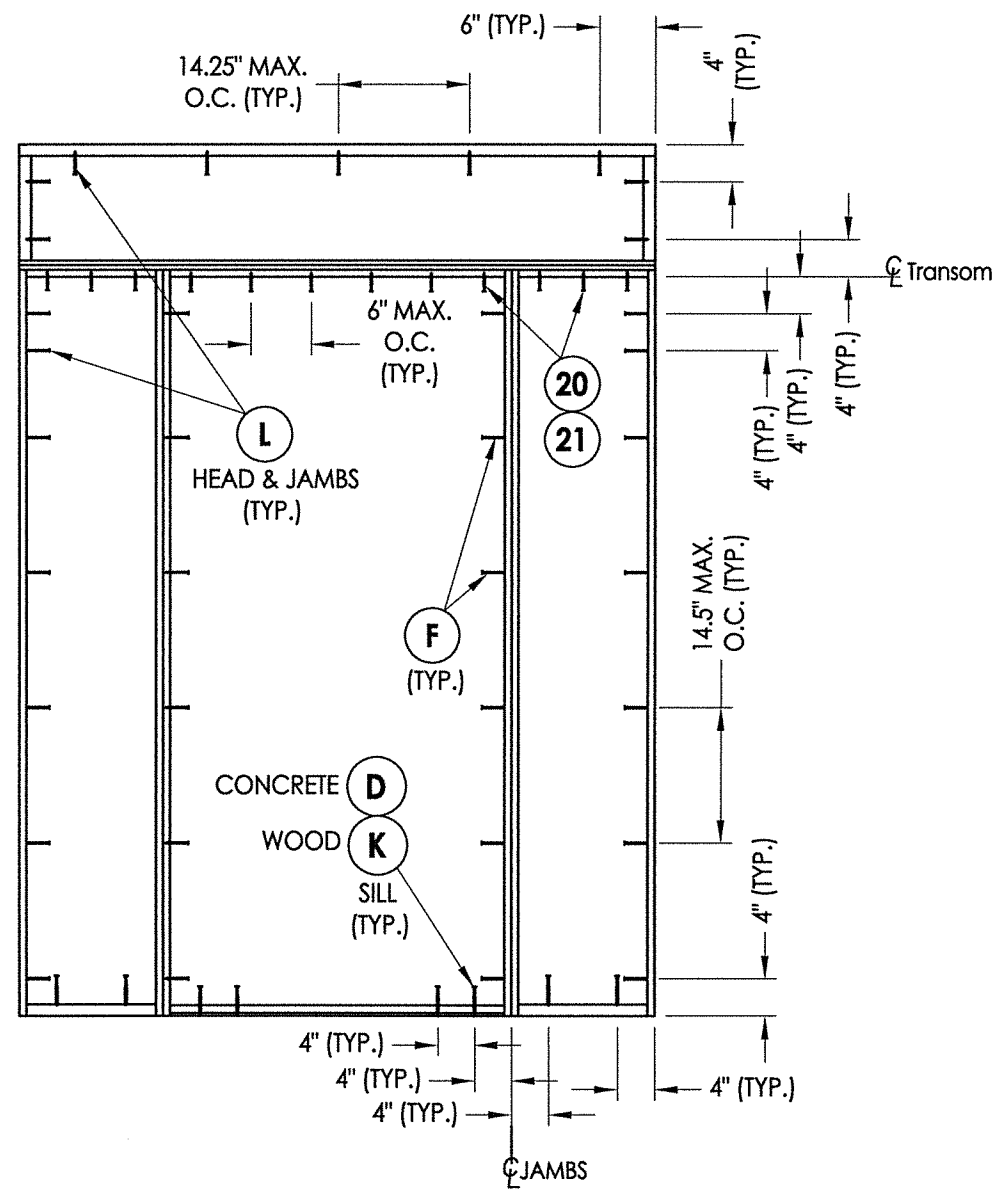


6 VERTICAL CROSS SECTION
7 Outswing Sill

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS (THRESHOLDS)	
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-4725			
SHEET 7 OF 12			

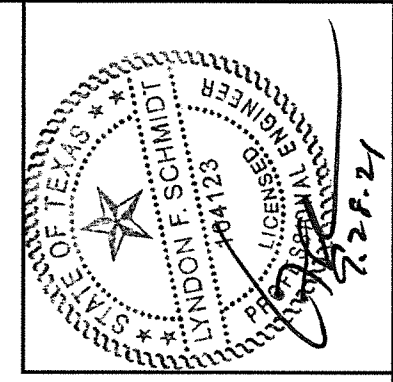


O/OXO, O/OX



O/OXO

FRAME ANCHORING



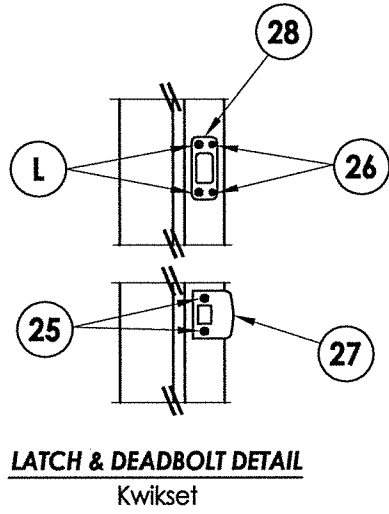
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

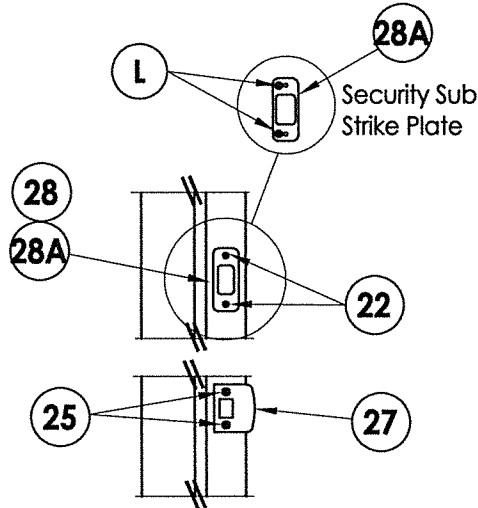
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
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NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS BY
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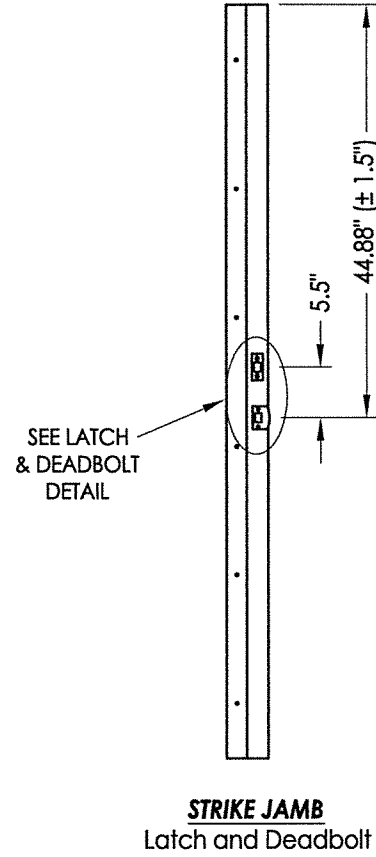
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CHK. BY:	LFS
DRAWING NO.:	TX-4725
SHEET	8 OF 12



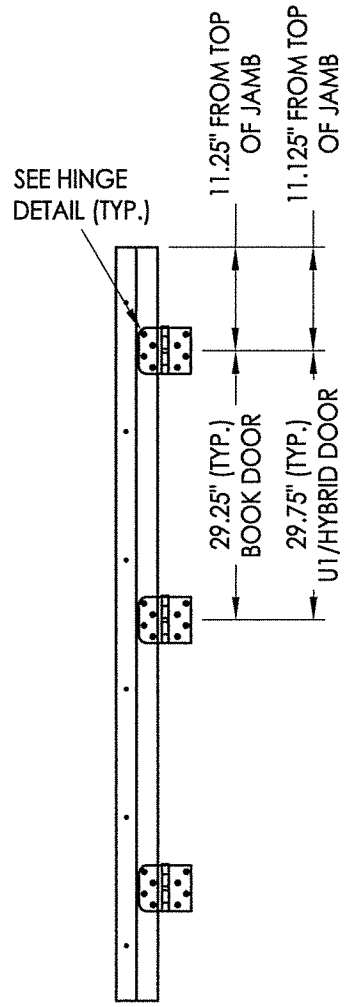
LATCH & DEADBOLT DETAIL
Kwikset



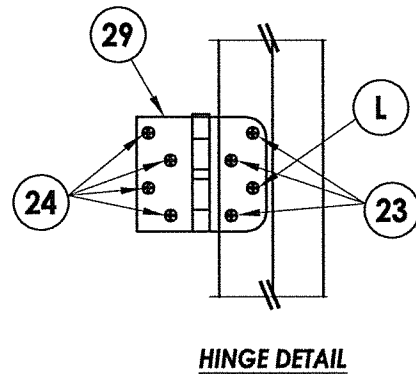
LATCH & DEADBOLT DETAIL
Schlage



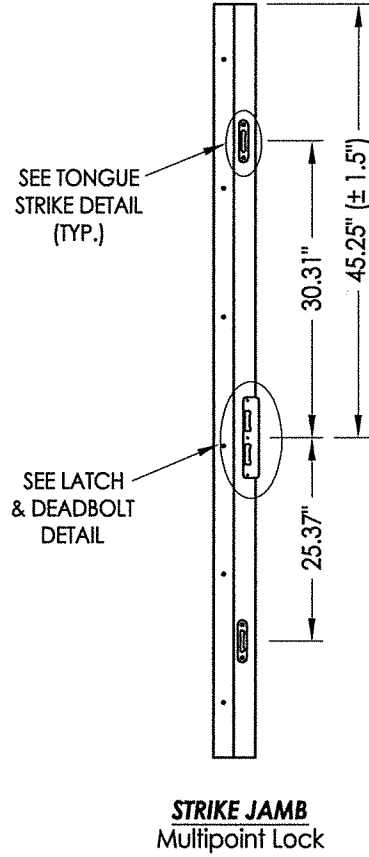
STRIKE JAMB
Latch and Deadbolt



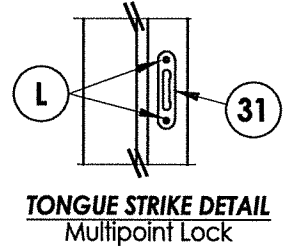
HINGE JAMB



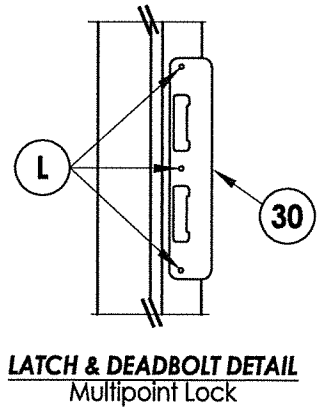
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



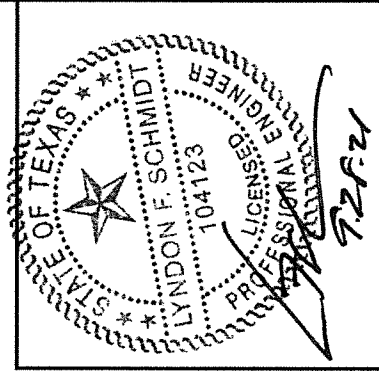
TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

MULTIPOINT LOCK STRIKE DETAILS

LATCH & DEADBOLT STRIKE DETAILS



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TEXAS P.E. #104123

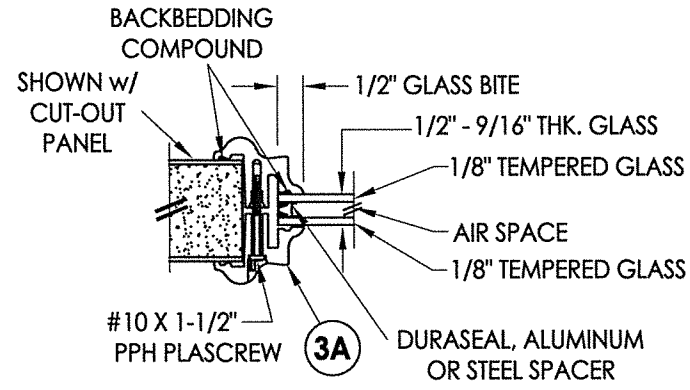
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33585
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

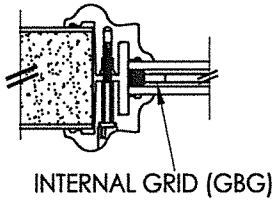
PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS

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

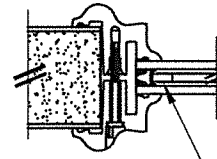
DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4725
SHEET	9 OF 12



G1 GLAZING DETAIL
BTS Lite Frame
Sidelites

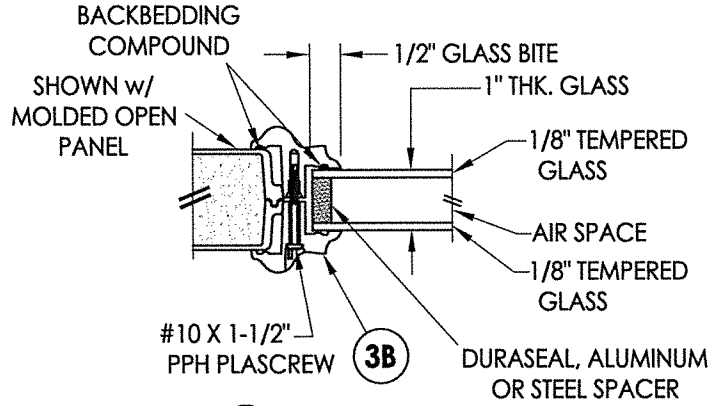


INTERNAL GRID (GBG)

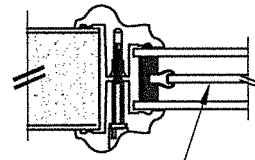


INTERNAL GRID (GBG)
(Optional Aluminum Spacer)

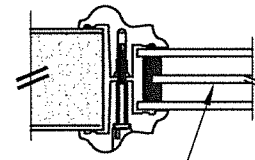
9/16" INSULATED GLASS INSERT OPTIONS



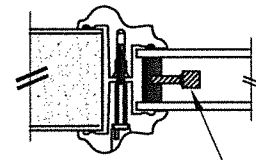
G2 GLAZING DETAIL
BTS Lite Frame
Sidelites



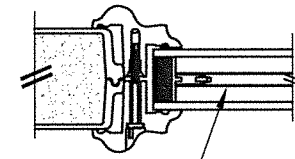
DECORATIVE INSERT



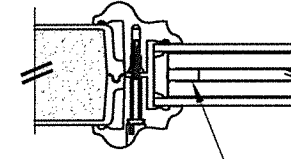
PRIVACY INSERT



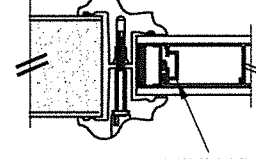
WROUGHT IRON INSERT



INTERNAL GRID (GBG)

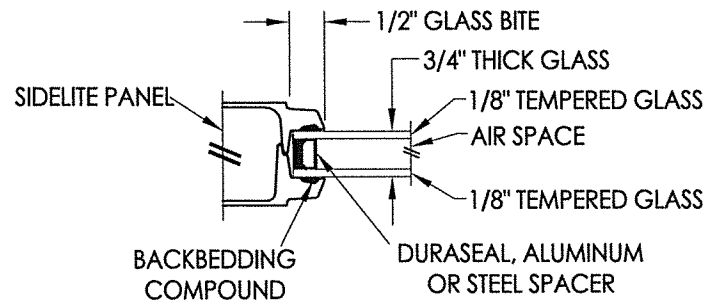


INTERNAL GRID (GBG)
(Optional Aluminum Spacer)

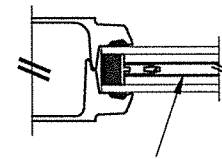


MINI BLIND
(Aluminum Spacer)

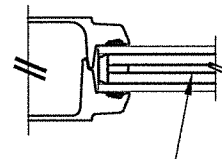
1" INSULATED GLASS INSERT OPTIONS



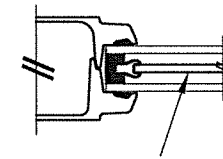
G3 GLAZING DETAIL
Flush Glazing
Sidelites



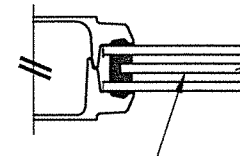
INTERNAL GRID (GBG)



INTERNAL GRID (GBG)

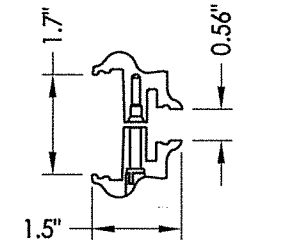


DECORATIVE INSERT

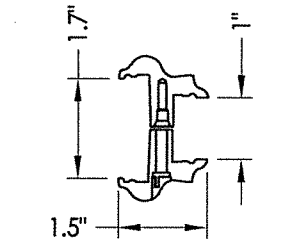


PRIVACY INSERT

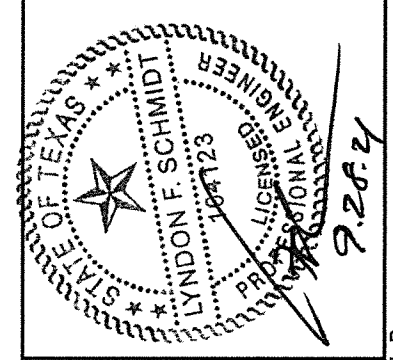
3/4" INSULATED GLASS INSERT OPTIONS



3A BTS LITE FRAME
1/2" & 9/16" Glazing



3B BTS LITE FRAME
1" Glazing

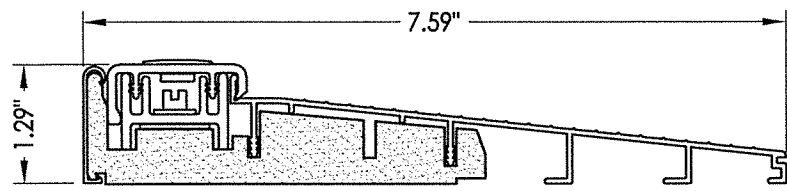


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

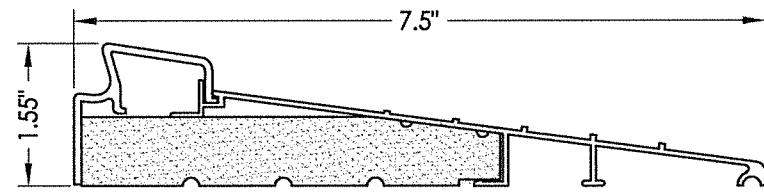
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

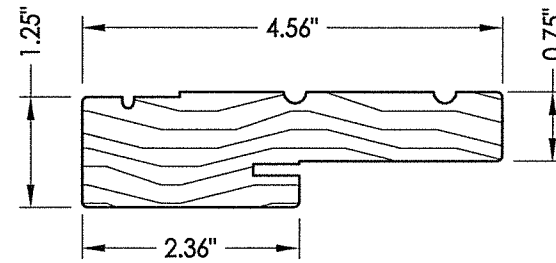
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		GLAZING DETAILS	
DATE:	11/14/17	SCALE:	N.T.S.
DWG. BY:	JK	CHK. BY:	LFS
DRAWING NO.:	TX-4725	NO.	1
SHEET	10 OF 12	DATE	9/28/21
REVISIONS		DATE	9/28/21
BY		DATE	9/28/21
BY		DATE	9/28/21



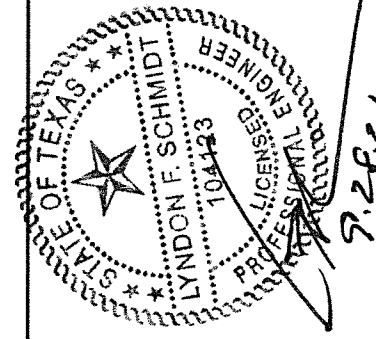
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



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



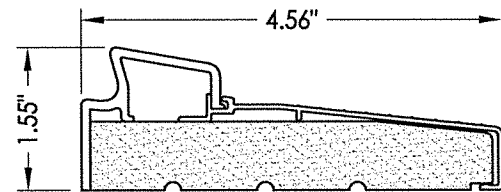
1 WOOD JAMB



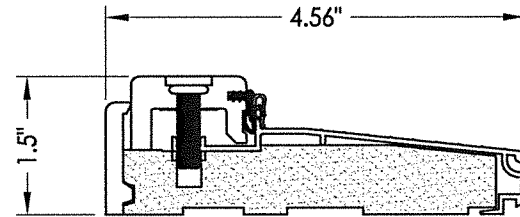
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

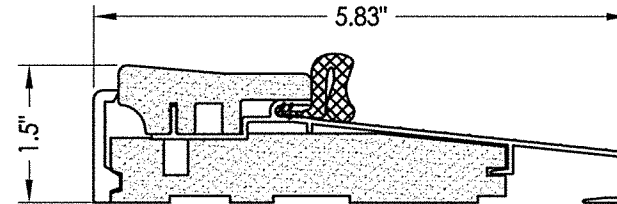
CERTIFICATE OF REGISTRATION # F-11852



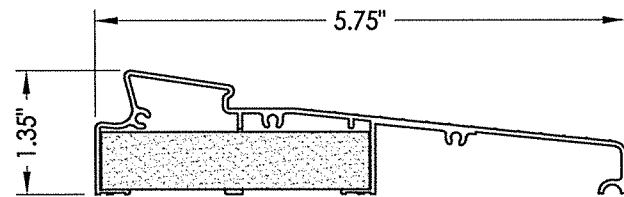
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



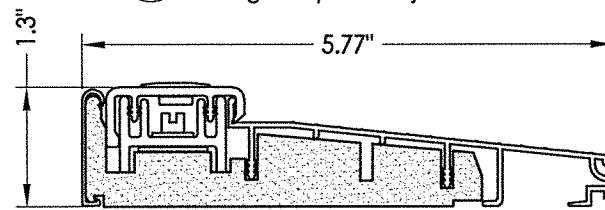
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



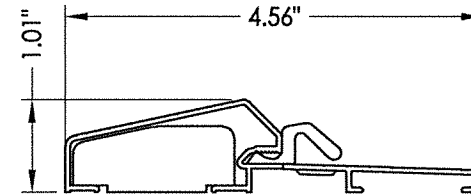
16 OUTSWING THRESHOLD
Composite Sill



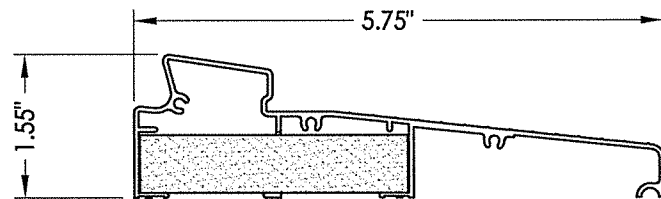
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



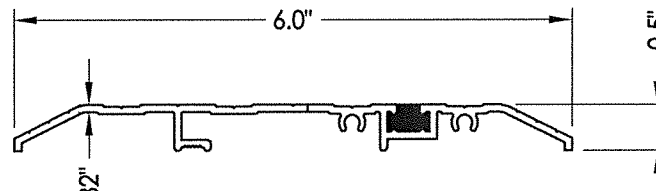
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



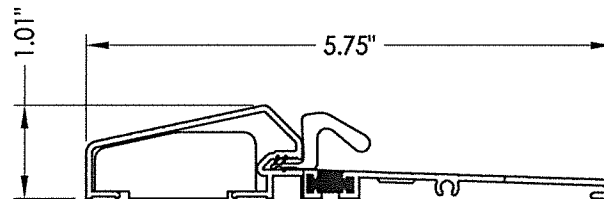
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



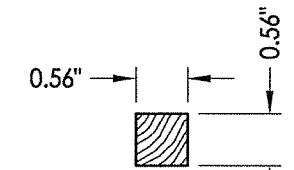
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



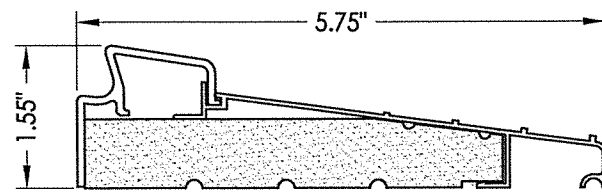
15 PUBLIC ACCESS THRESHOLD



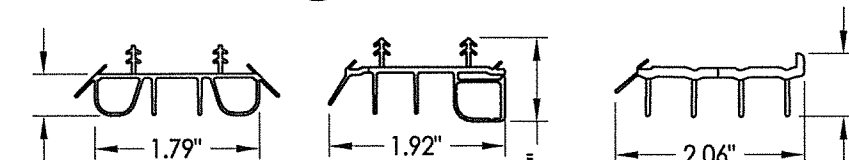
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



72 TRANSOM MOLDING



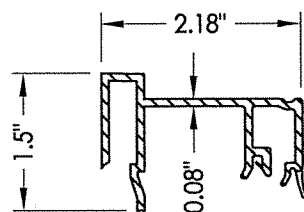
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



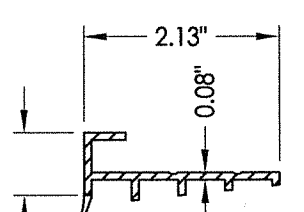
8 SWEEP

9 SWEEP

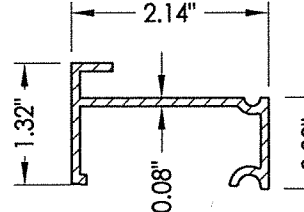
10 SWEEP



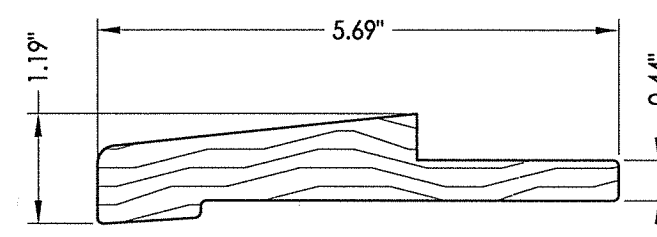
75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold

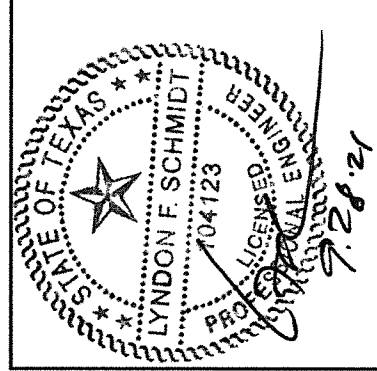


71 TRANSOM SILL

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		COMPONENTS	
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-4725			
SHEET 11 OF 12			

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
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
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)	-
50	SIDELITE	-
60	SIDELITE	-
70	TRANSOM PANEL	-
71	TRANSOM SILL	WOOD
72	TRANSOM MOLDING	WOOD
74	8d X 1" BRAD NAIL	STEEL
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC
77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC



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	REVISIONS
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE
		LFS
		BY

DATE: 11/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4725
SHEET 12 OF 12

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"

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.