

THERMA-TRU[®] DOORS

Fiber-Classic[®] & Smooth-Star[®]

COMPOSITE EDGE OPAQUE FIBERGLASS SINGLE DOOR w/ SIDELITE(S) INSWING/OUTSWING "NON-IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

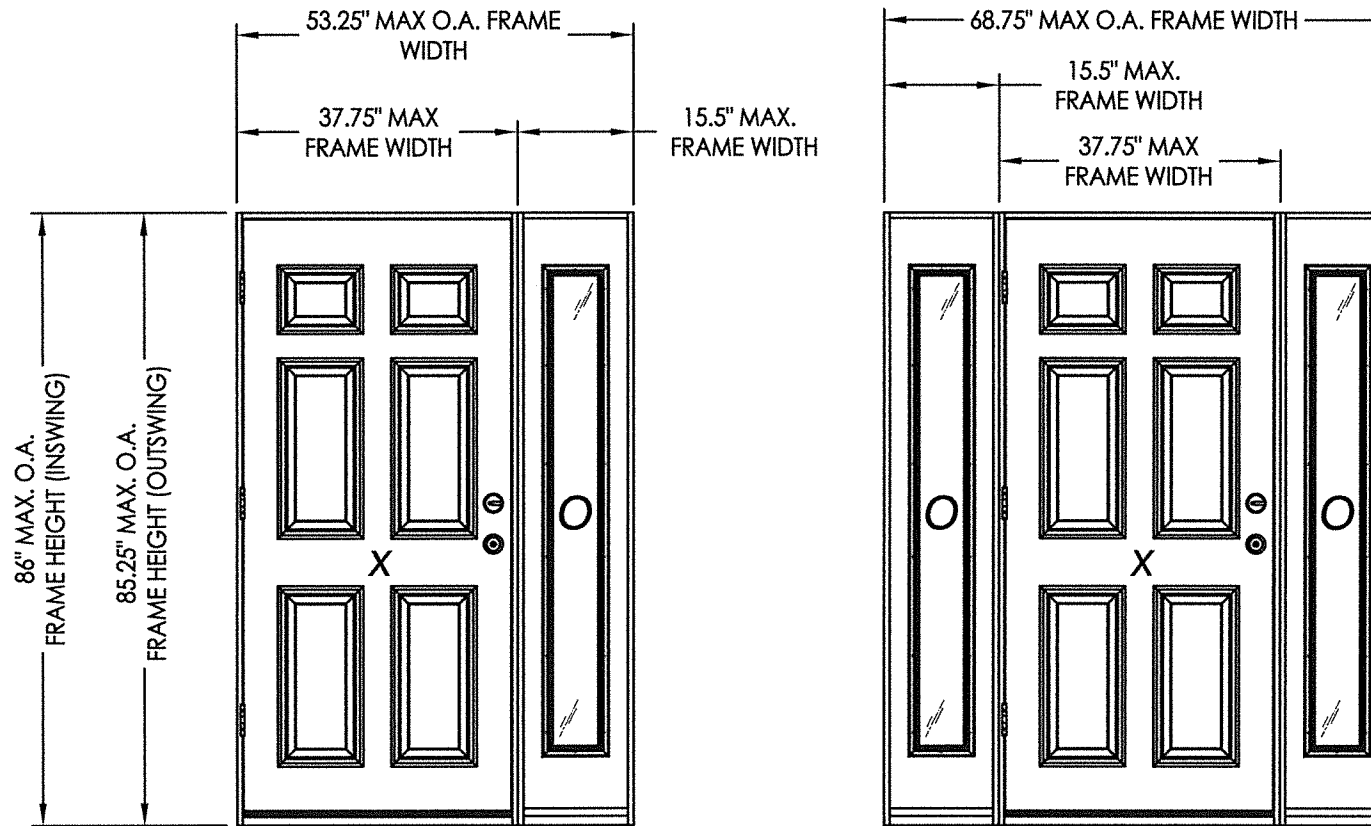
TDI DR-947

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:

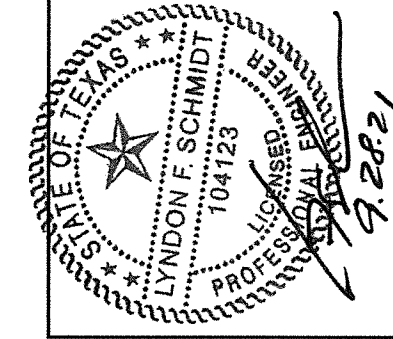
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section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



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+45.0	-50.0	+45.0	-45.0



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

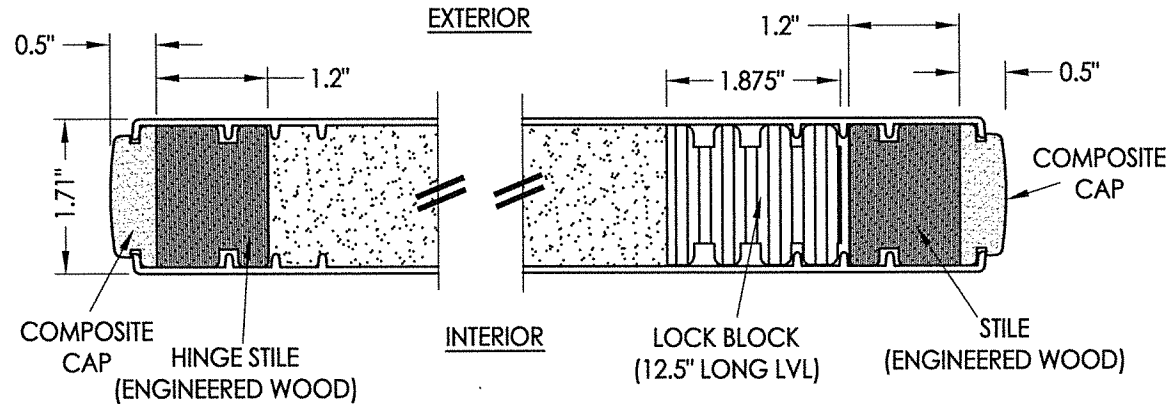
CERTIFICATE OF REGISTRATION # F-11852

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

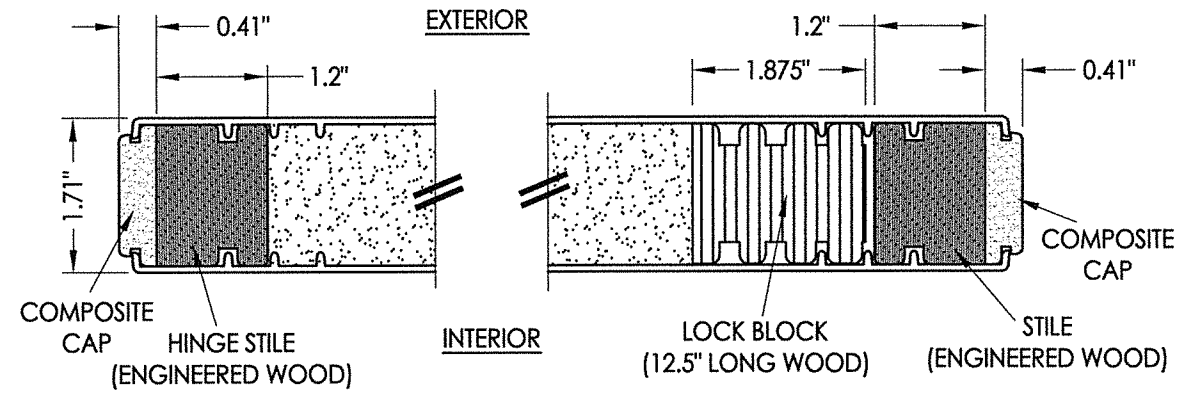
NO.	DATE	DESCRIPTION	BY
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 11/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4720
SHEET 1 OF 11

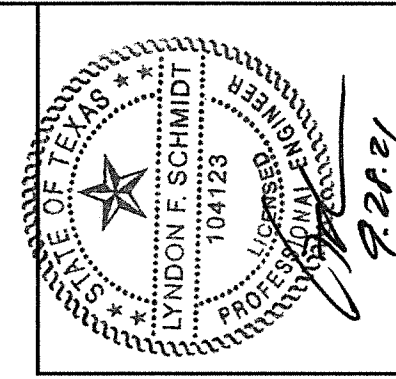
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 947 - 6'8 & 8'0 Opaque Comp Edge Non-Impact (TX 4716 - 4727)\C - Drawings\TX-4719-20.dwg



1
2 HORIZONTAL CROSS SECTION



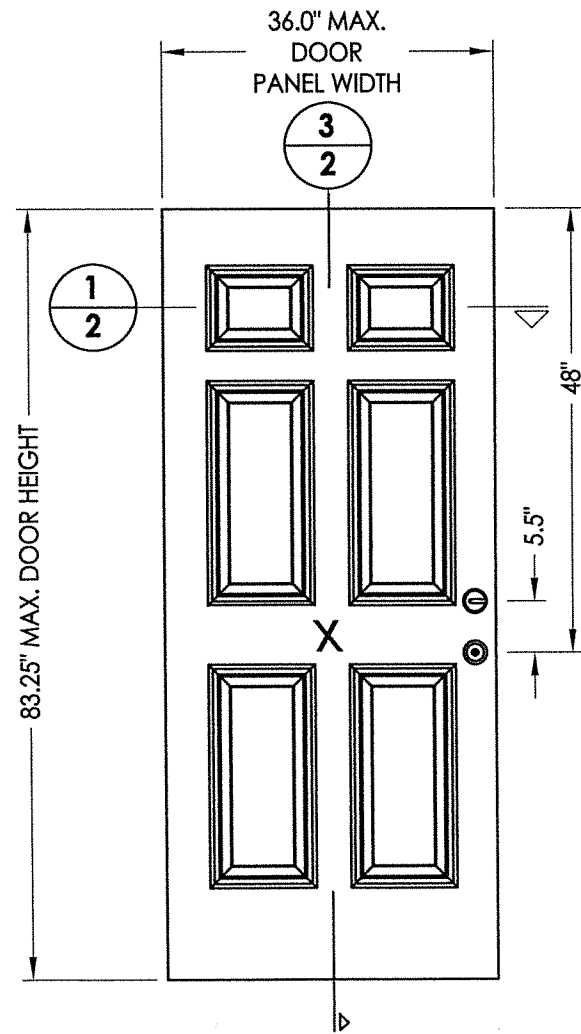
2
2 HORIZONTAL CROSS SECTION



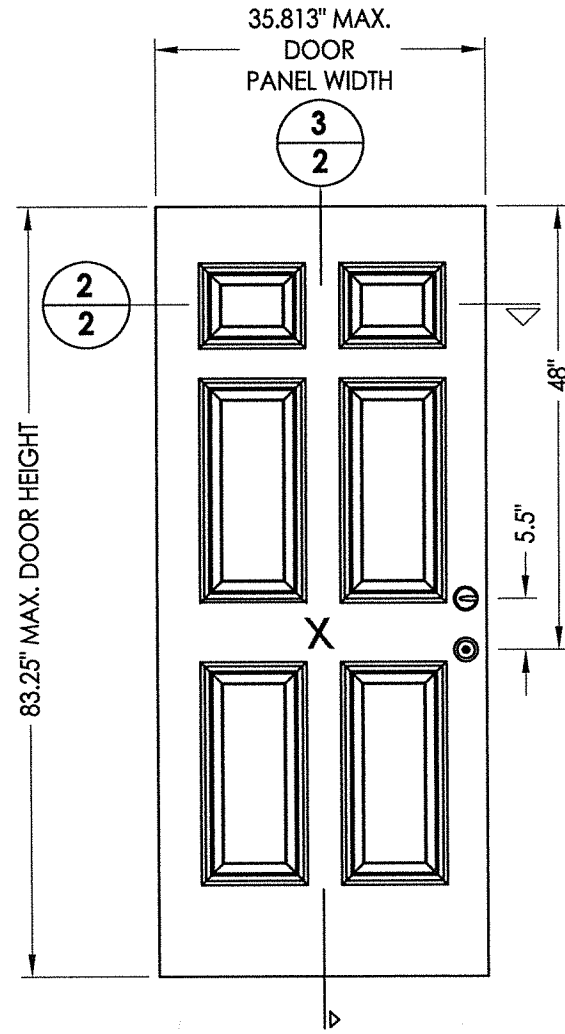
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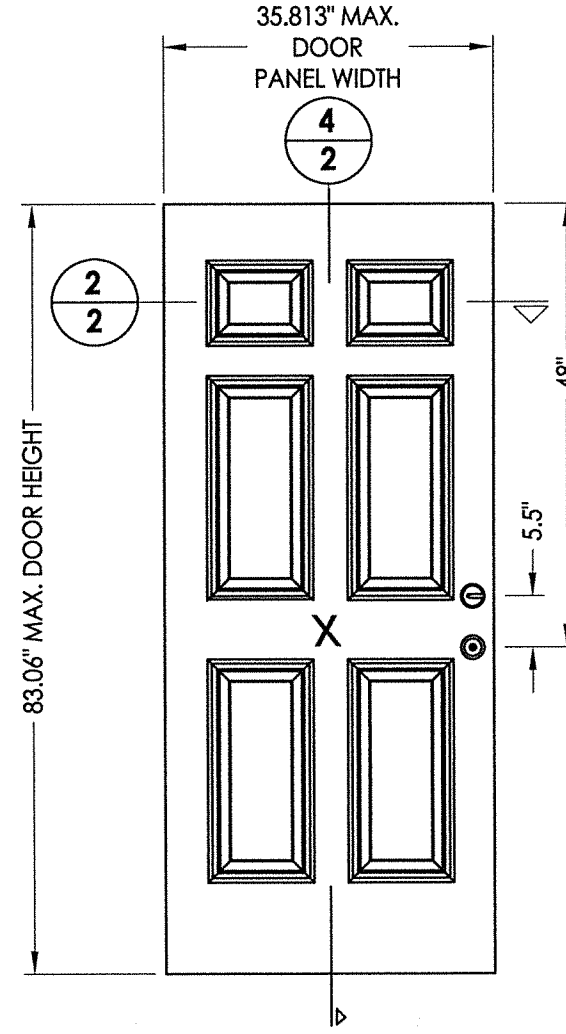
CERTIFICATE OF REGISTRATION # F-11852



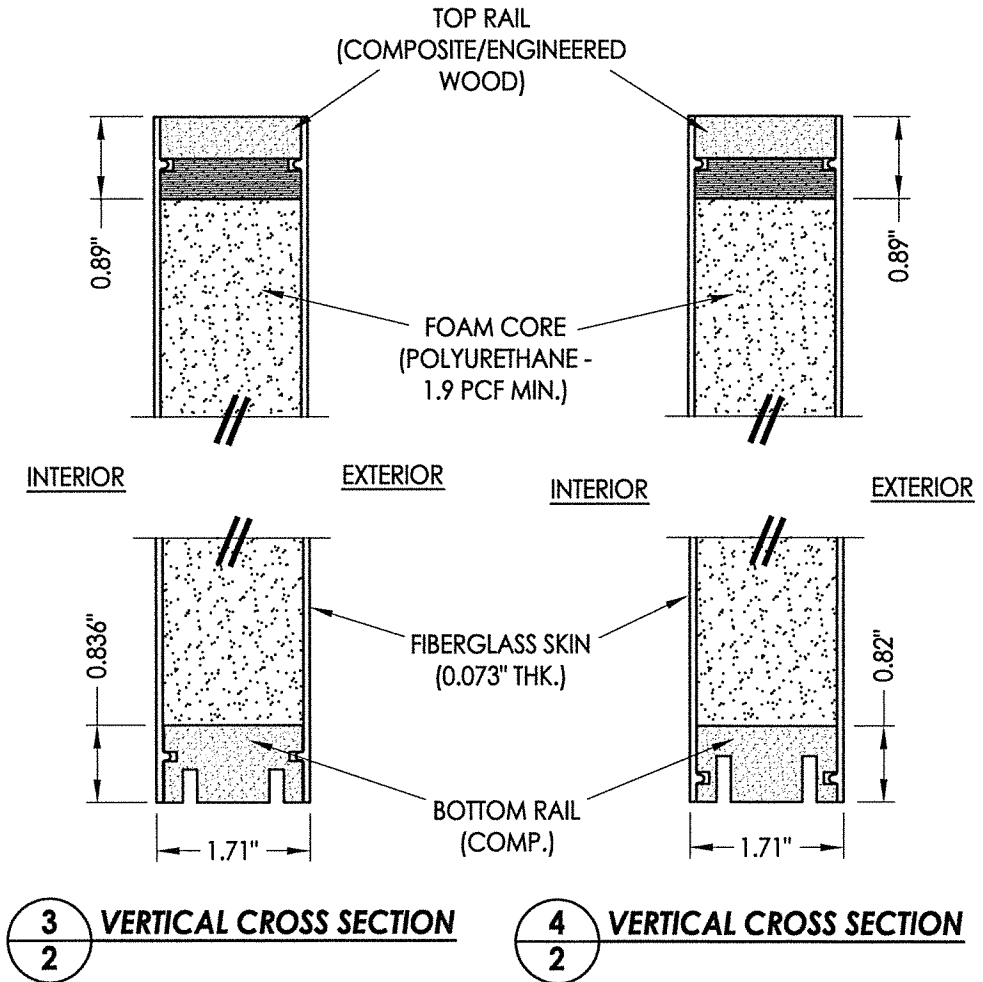
40 DOOR PANEL BOOK



41 DOOR PANEL Hybrid Door



42 DOOR PANEL U1 Door

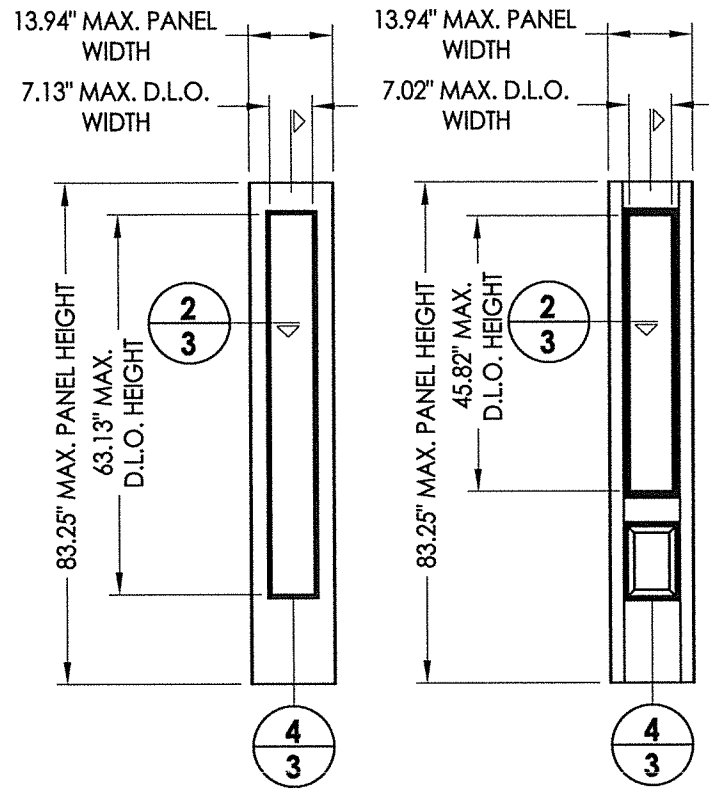


3
2 VERTICAL CROSS SECTION

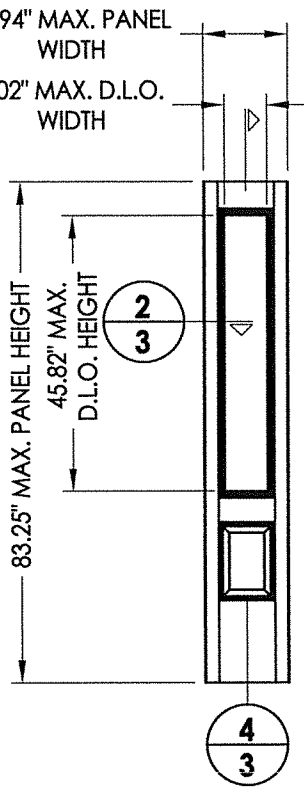
4
2 VERTICAL CROSS SECTION

PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: DOOR PANEL DETAILS	
NO.	DATE
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-4720	
SHEET 2 OF 11	

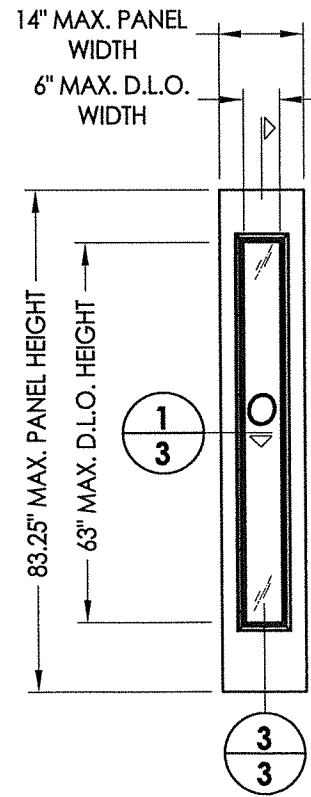
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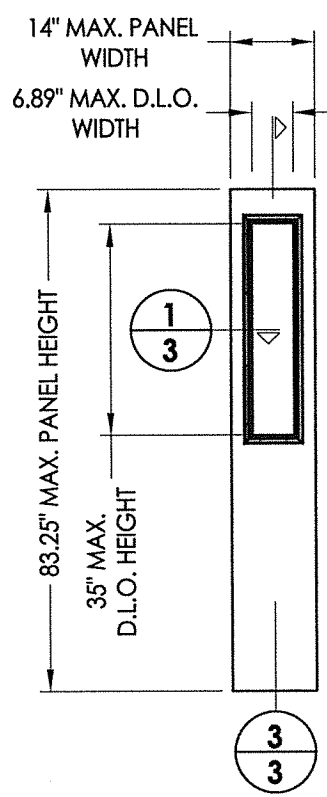
60 SIDELITE PANEL
Full Lite
Flush Glazed



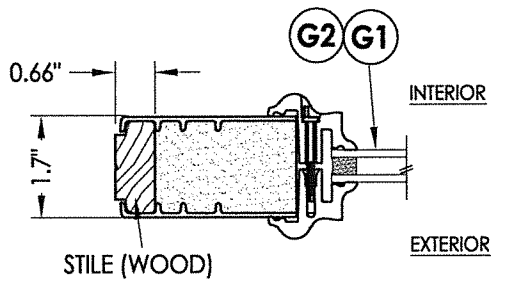
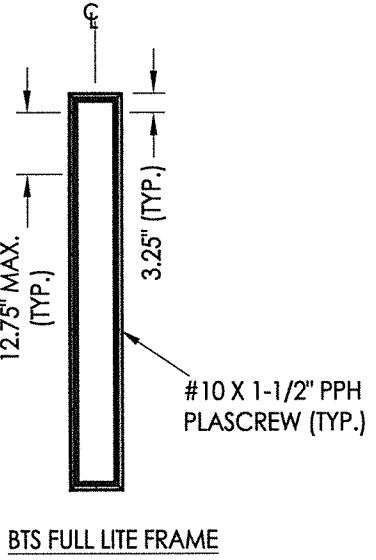
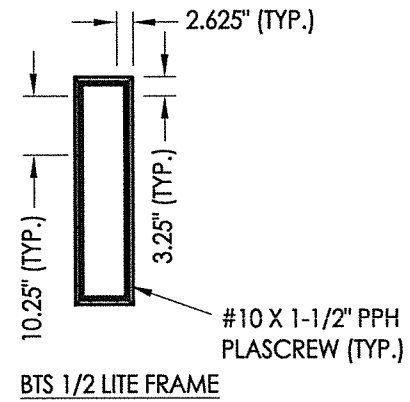
60 SIDELITE PANEL
3/4 Lite
Flush Glazed



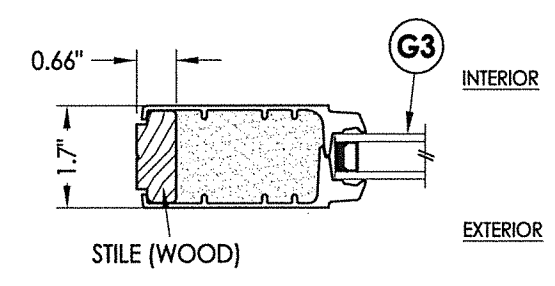
50 SIDELITE PANEL
Full Lite
Lip Lite



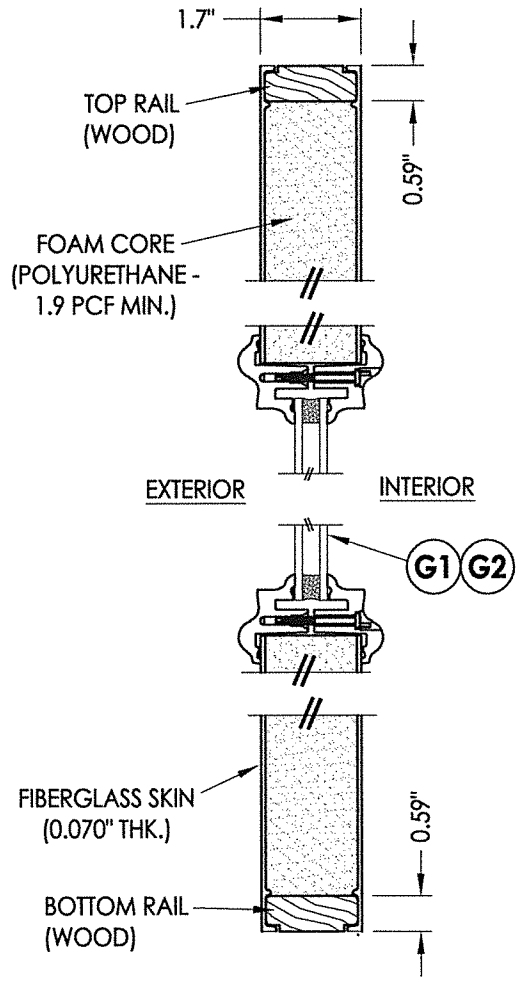
50 SIDELITE PANEL
Half Lite
Lip Lite



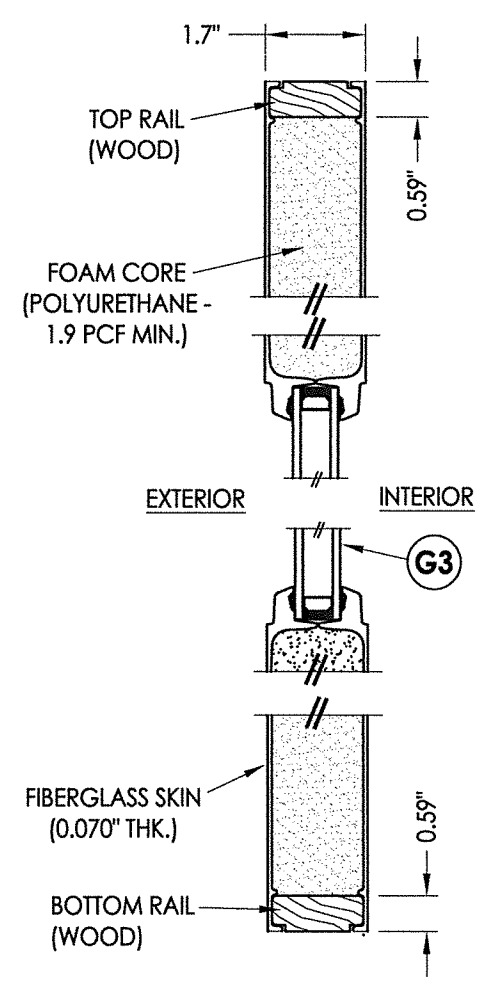
1 HORIZONTAL CROSS SECTION
3 Lip Life Glazing



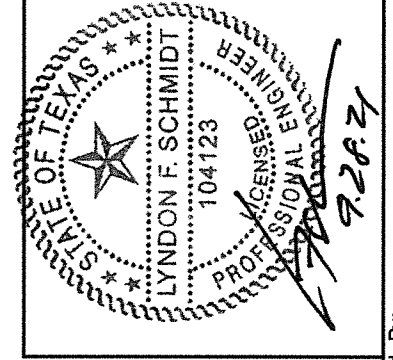
2 HORIZONTAL CROSS SECTION
3 Flush Glazing



3 VERTICAL CROSS SECTION
3 Lip Lite Glazing Shown



4 VERTICAL CROSS SECTION
3 Flush Glazing Shown

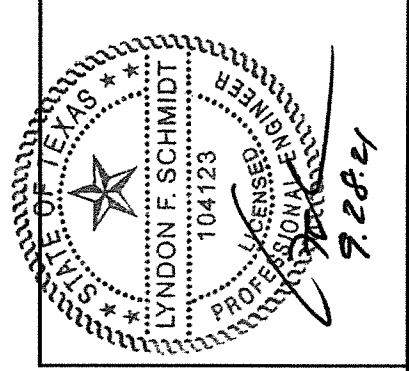
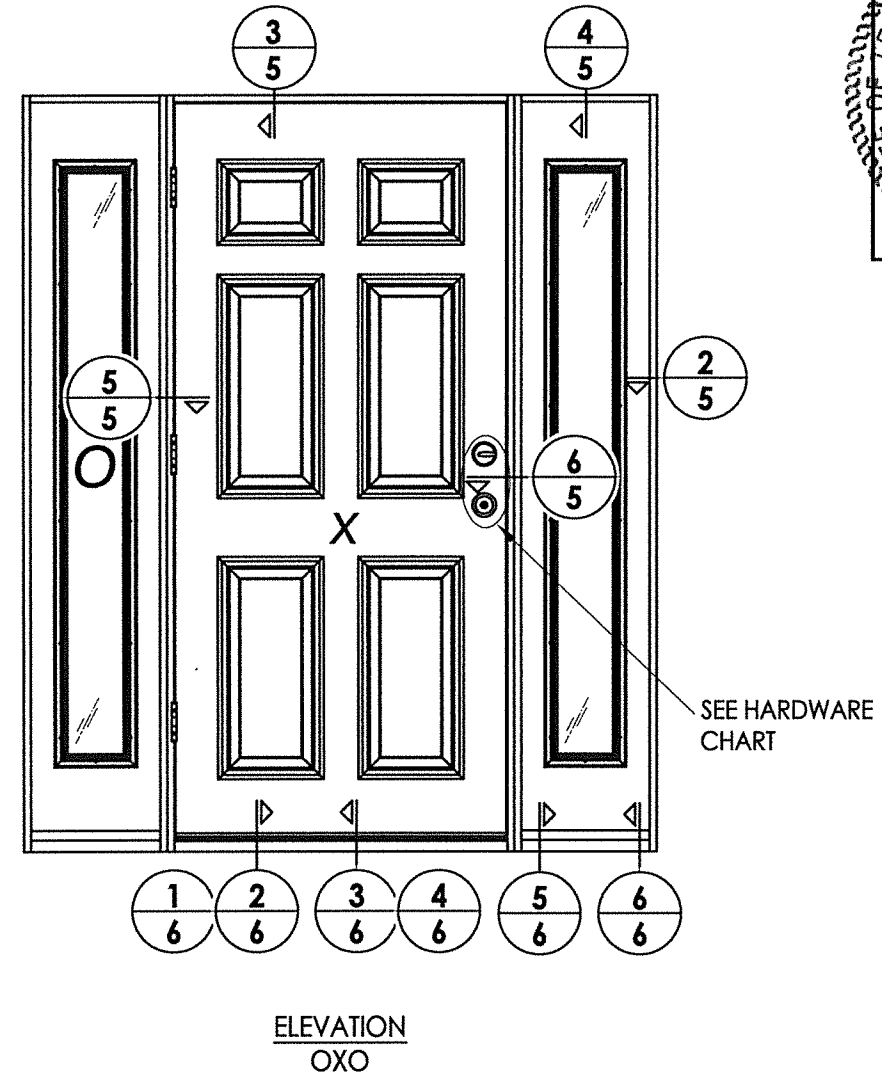
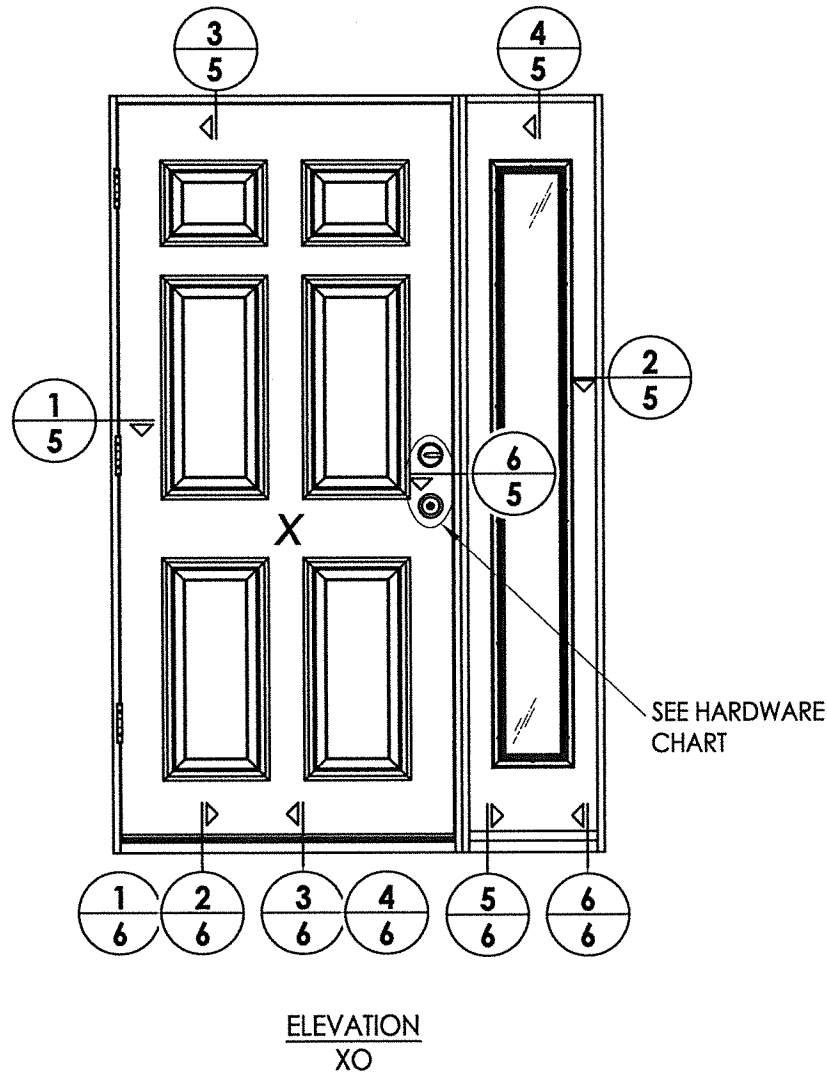


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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: SIDELITE PANEL DETAILS	
NO.	DATE
1	9/28/21
UPDATE TO 2018 IBC/IRC CODE	
LFS	BY
JK	
DATE: 11/14/17	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4720	
SHEET 3 OF 11	



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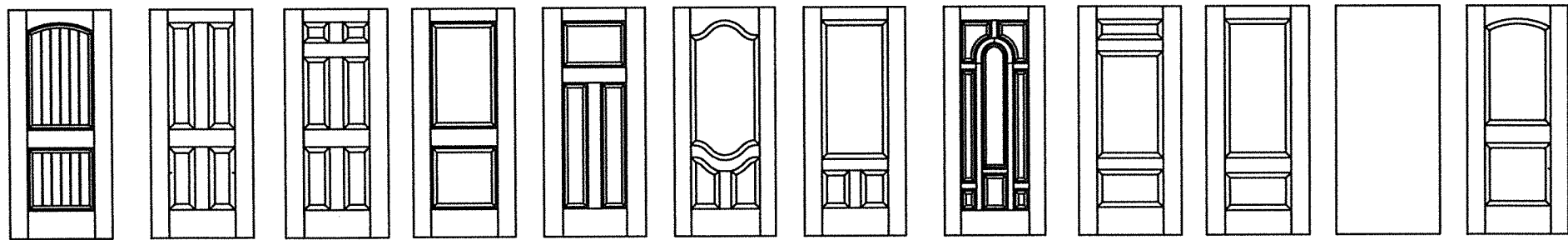
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: ELEVATIONS

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

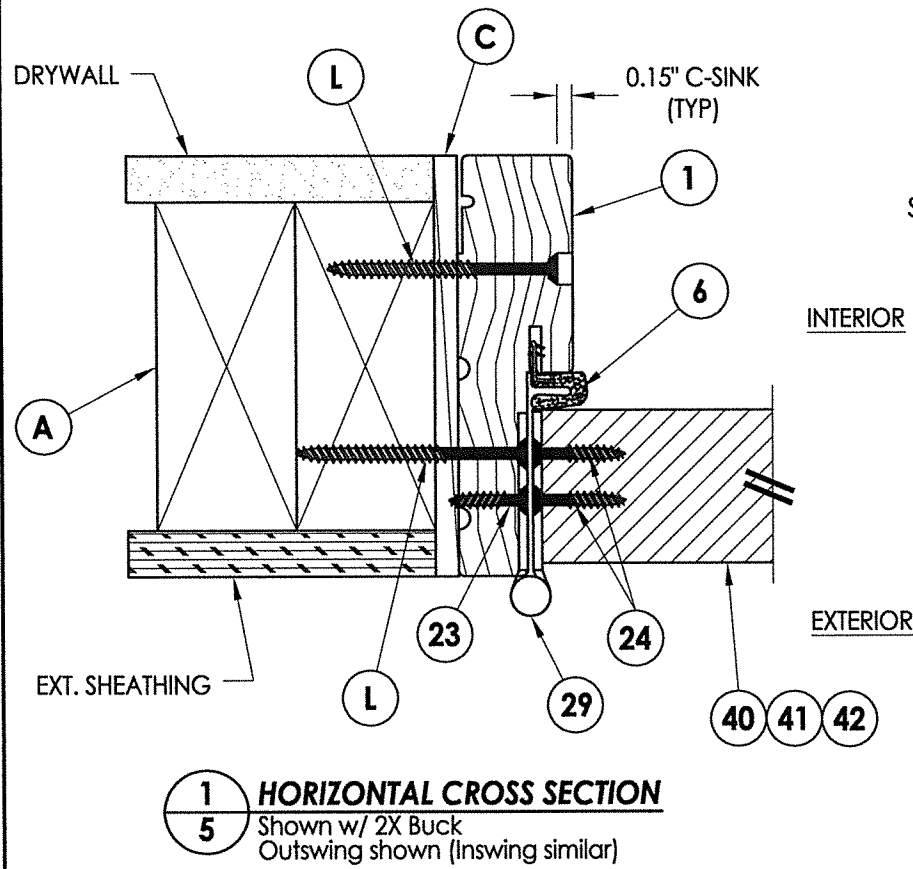
DATE: 11/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4720
SHEET 4 OF 11



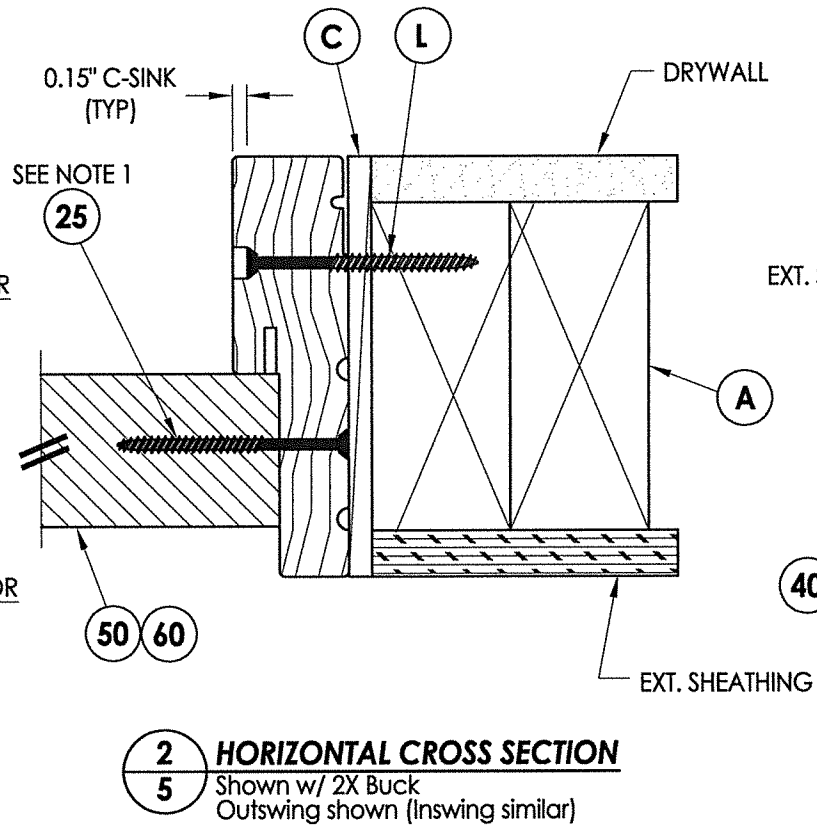
Fiber-Classic/Smooth-Star Door Panel Options
Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51
	DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)

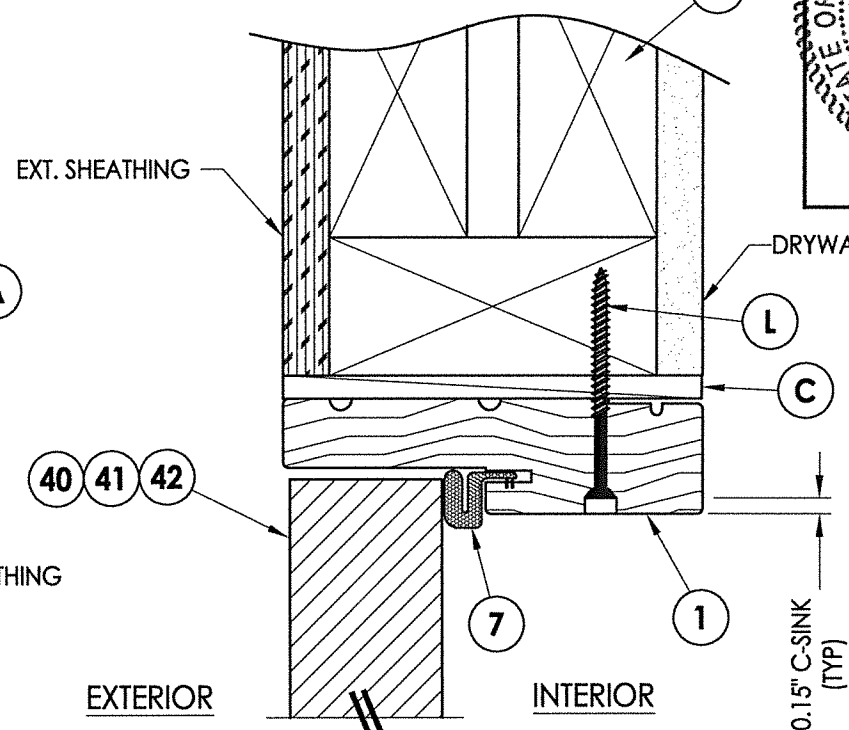
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1 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
 Outswing shown (Inswing similar)

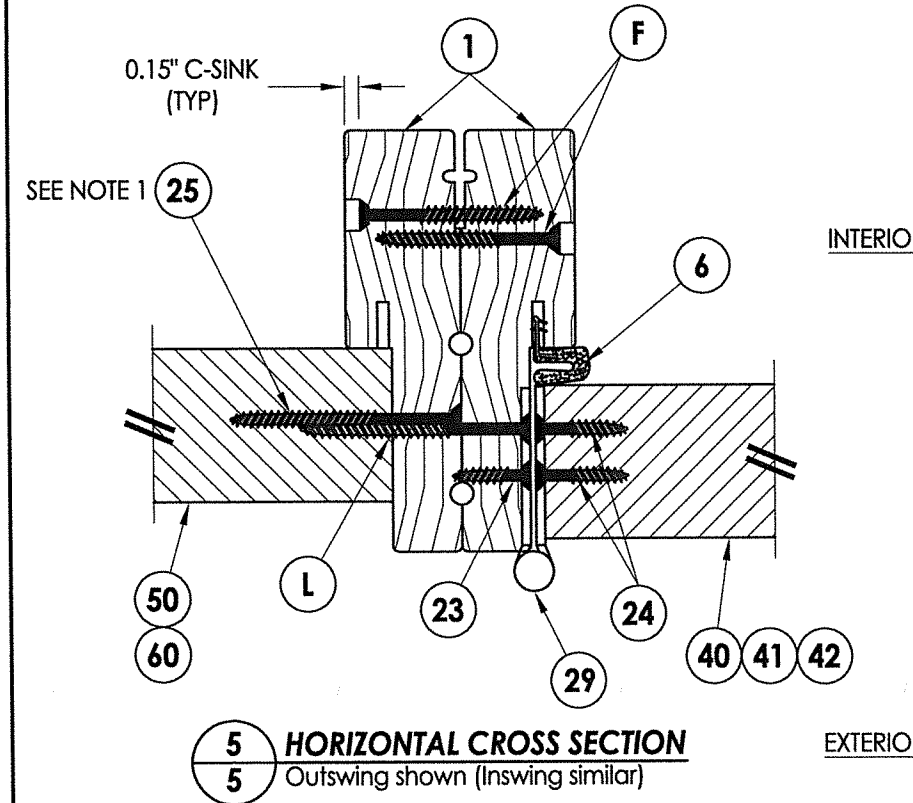


2 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
 Outswing shown (Inswing similar)

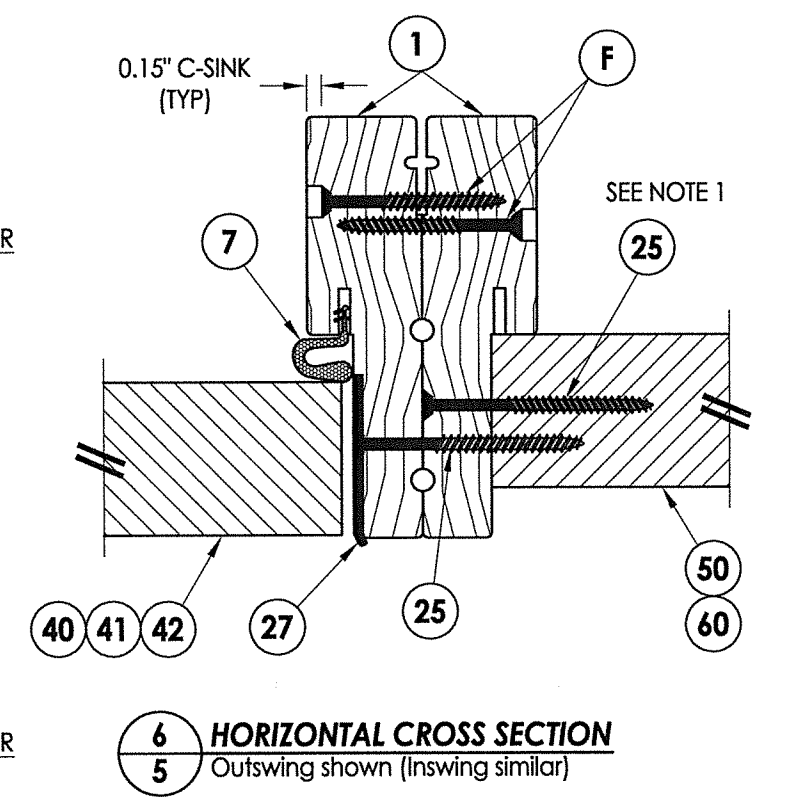


3 VERTICAL CROSS SECTION
5 Shown w/ 2X Buck
 Outswing shown (Inswing similar)

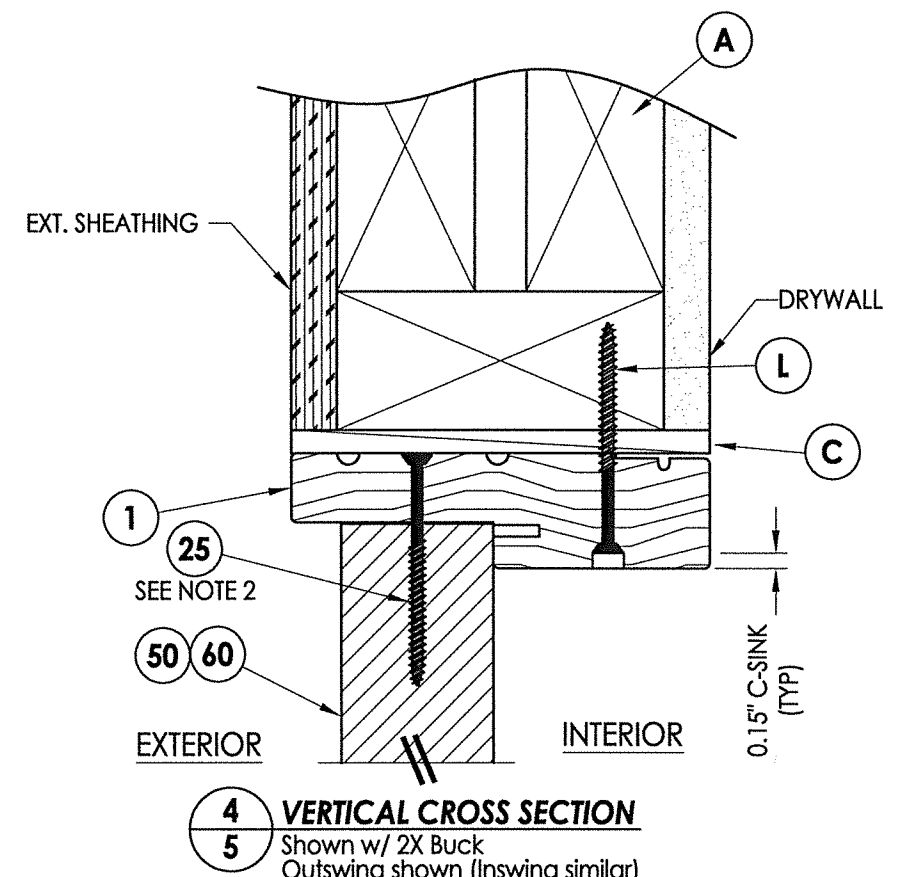
Notes:
 1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



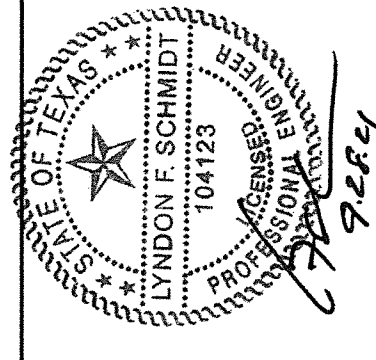
5 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



6 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



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



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

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 Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

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

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

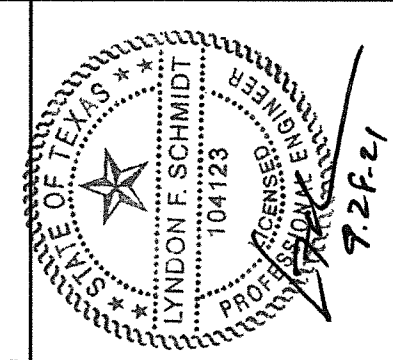
DATE: 11/14/17
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4720
 SHEET 5 OF 11

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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-4719-20.dwg

Notes:

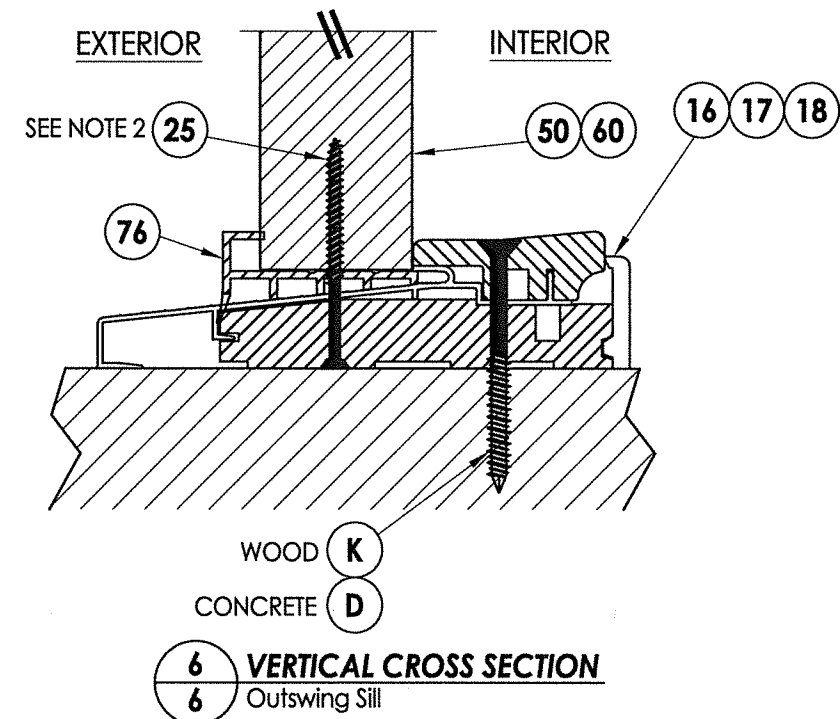
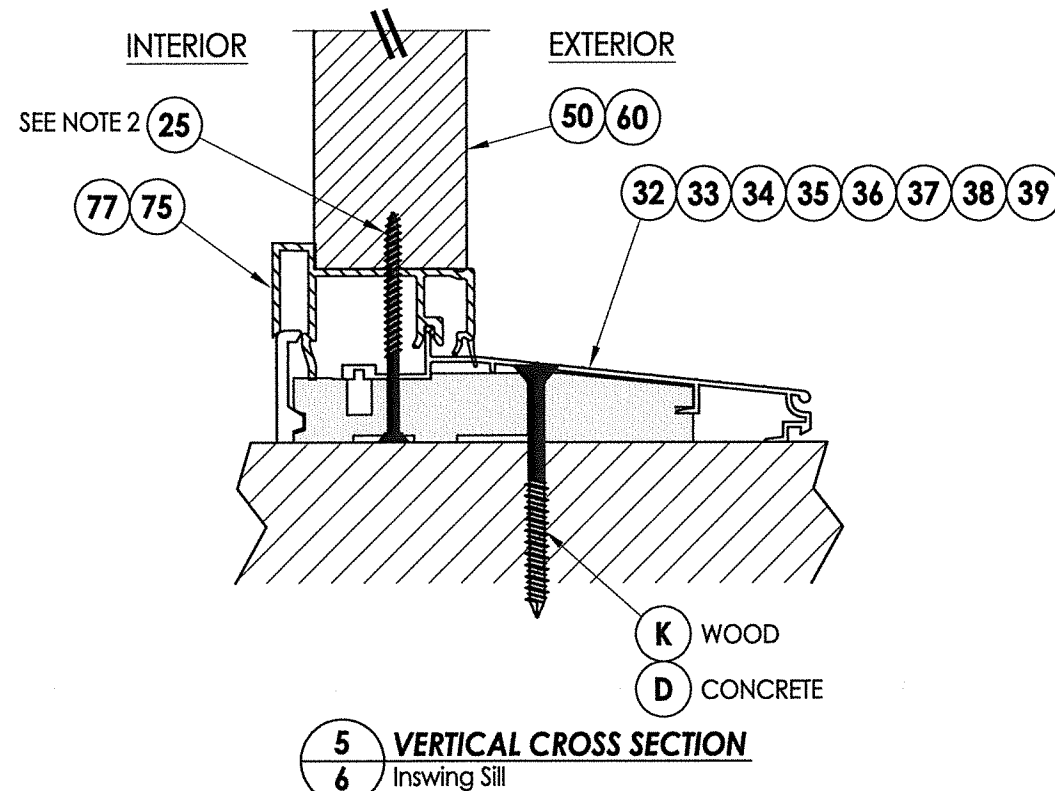
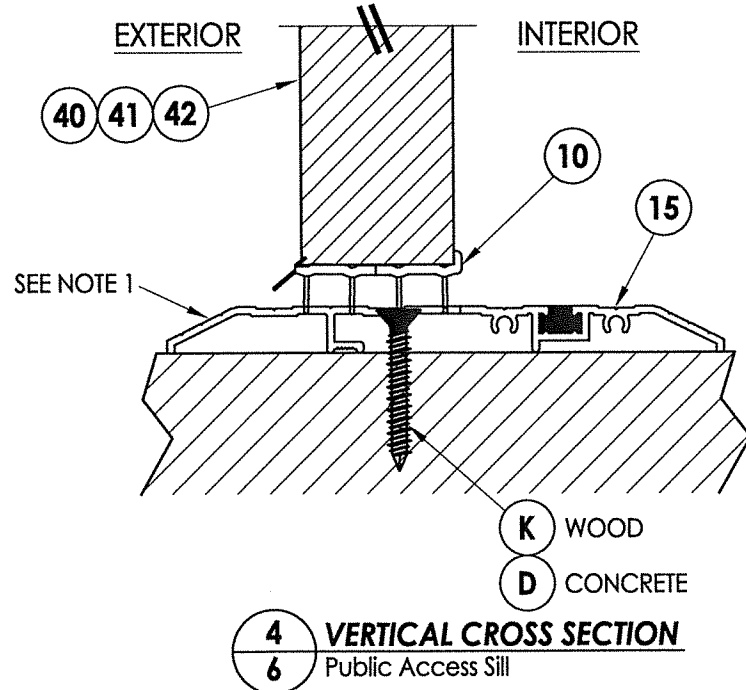
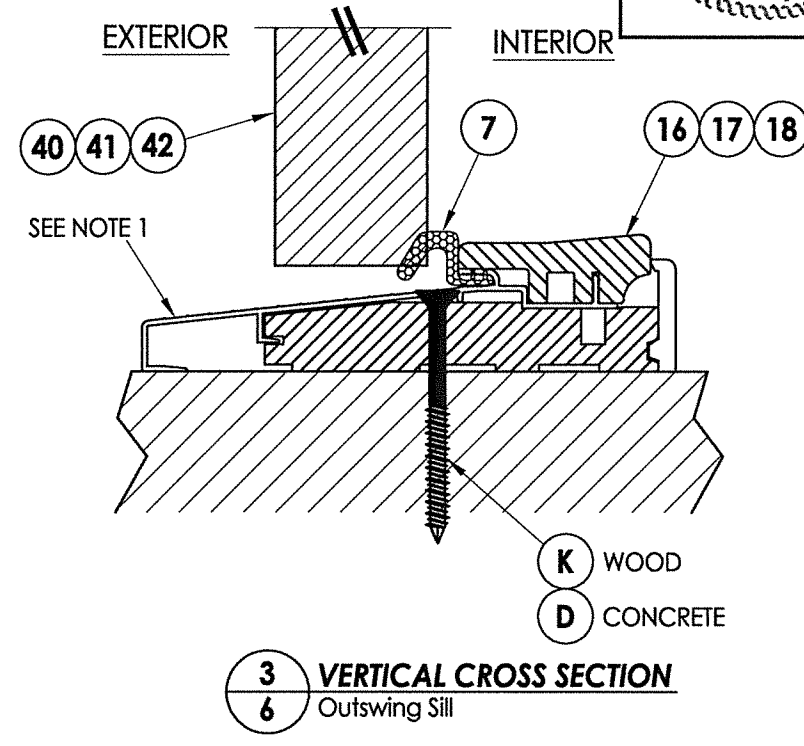
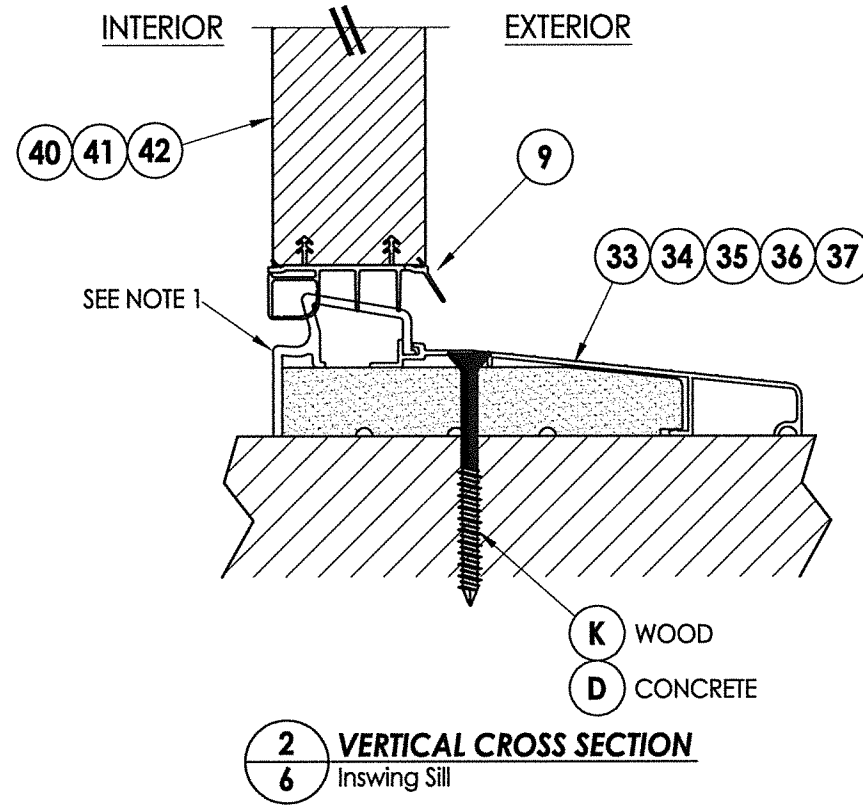
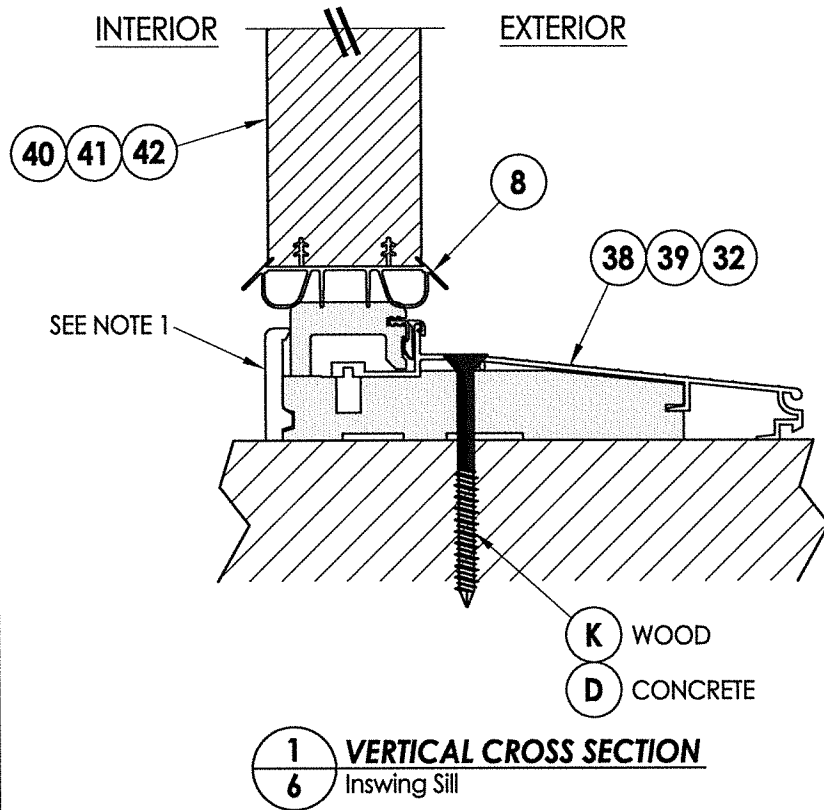
- Sill Item #'s 16, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 17 & 18 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.
- Sidelite assembly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



Documents Prepared By: Lyndon F. Schmidt, P.E.
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Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852



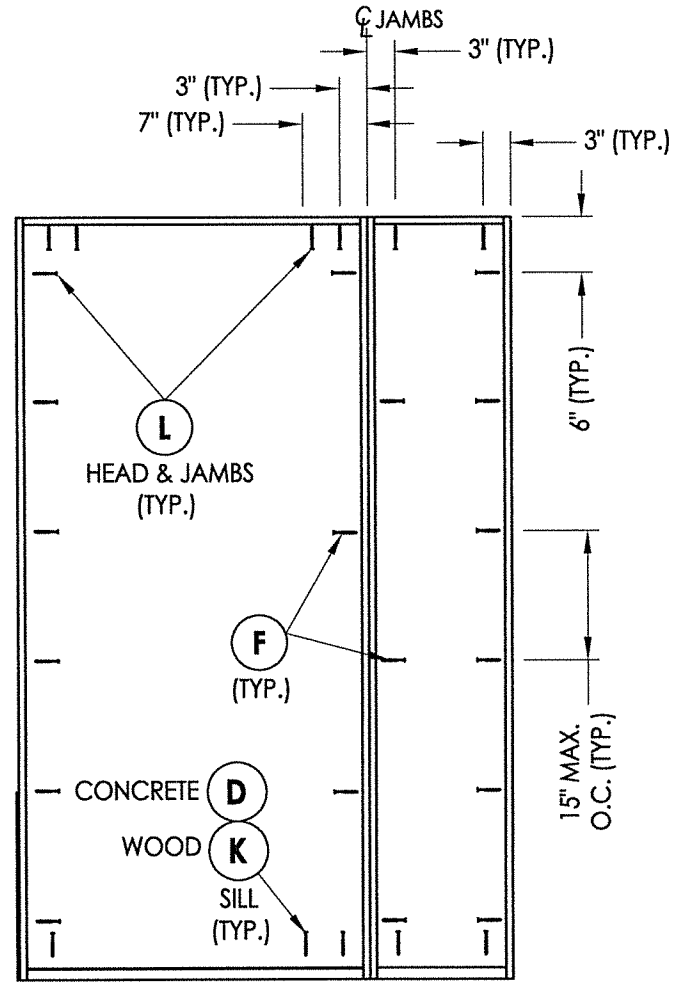
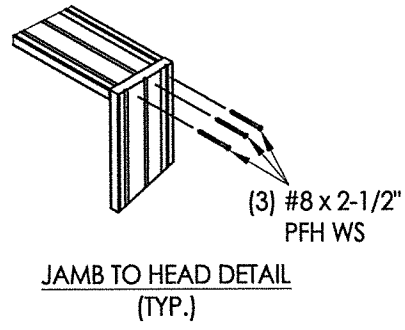
PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

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

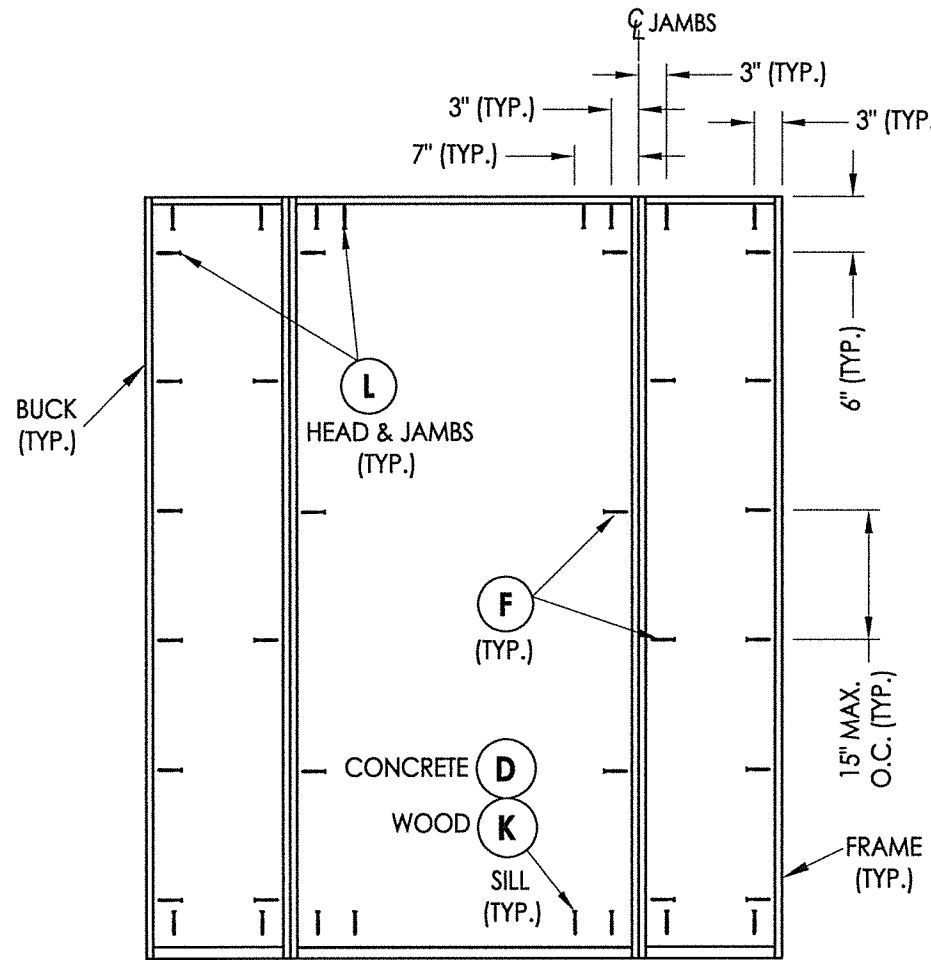
DATE: 11/14/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4720
SHEET 6 OF 11

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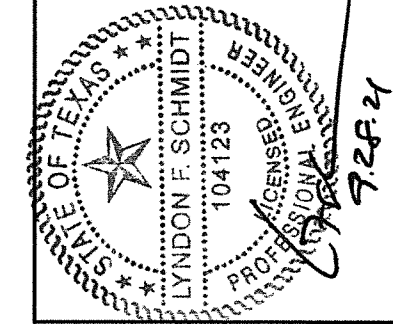


XO/OX



OXO

FRAME ANCHORING

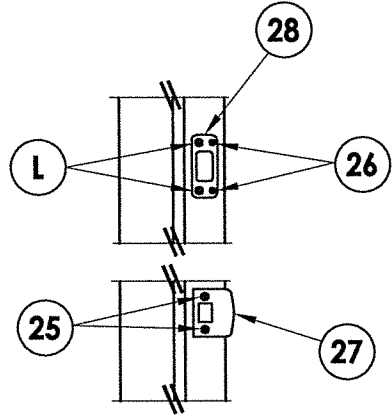


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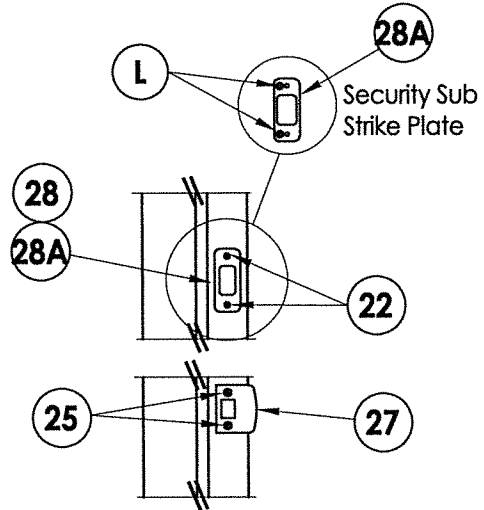
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL, 33595
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: FRAME ANCHORING	
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-4720	
SHEET 7 OF 11	

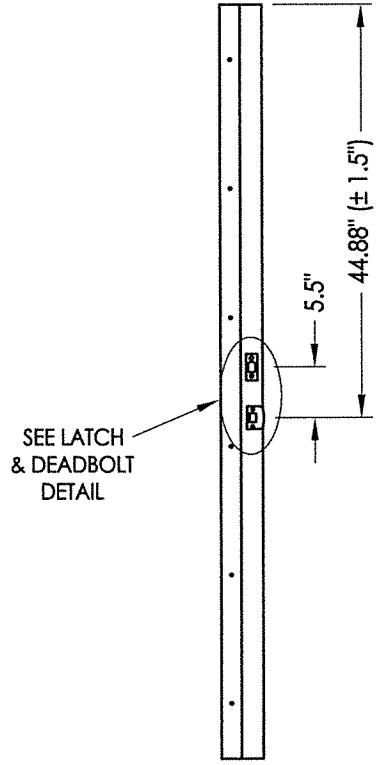


LATCH & DEADBOLT DETAIL
Kwikset

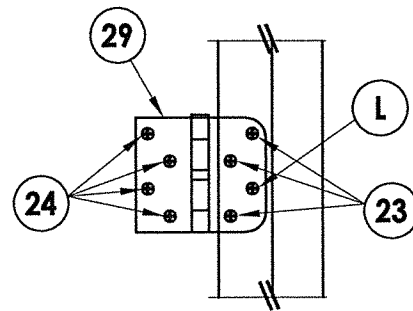


LATCH & DEADBOLT DETAIL
Schlage

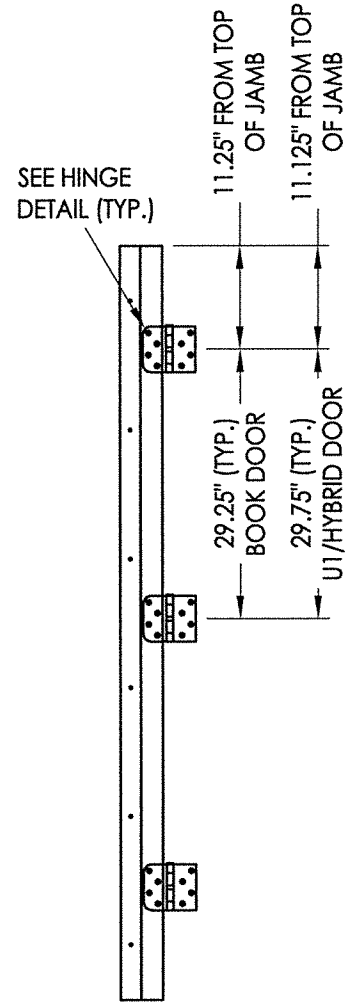
LATCH & DEADBOLT STRIKE DETAILS



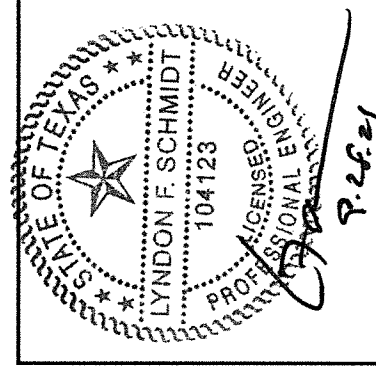
STRIKE JAMB
Latch and Deadbolt



HINGE DETAIL



HINGE JAMB



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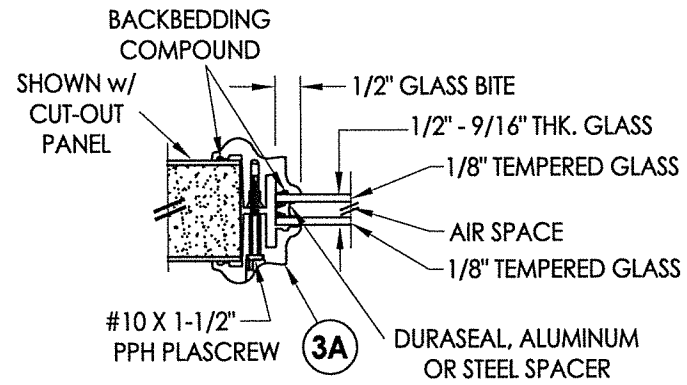
CERTIFICATE OF REGISTRATION # F-11852

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

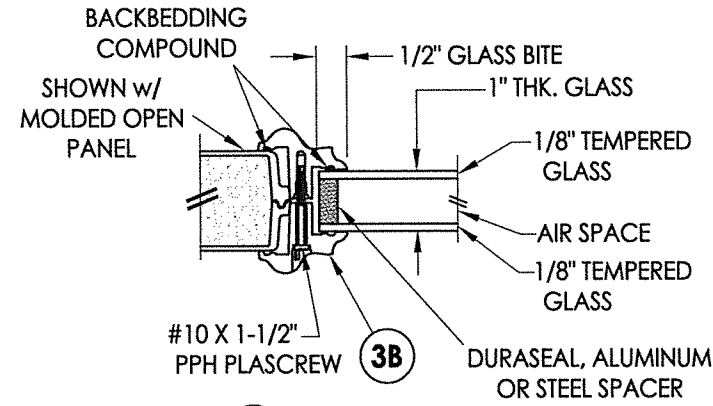
NO.	DATE	DESCRIPTION	BY
1	9/28/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	11/14/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4720
SHEET	8 OF 11

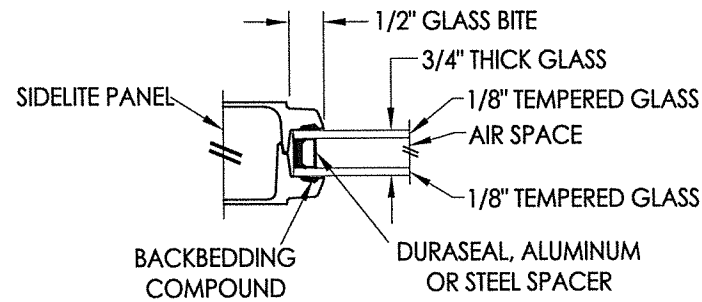
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 947 - 68 & 80 Opaque Comp Edge Non-Impact (TX 4716 - 4727)\C - Drawings\TX-4719-20.dwg



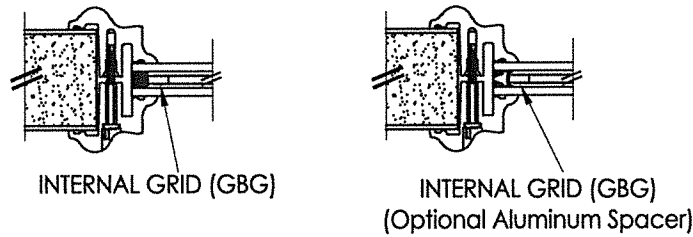
G1 GLAZING DETAIL
BTS Lite Frame
Sidelites



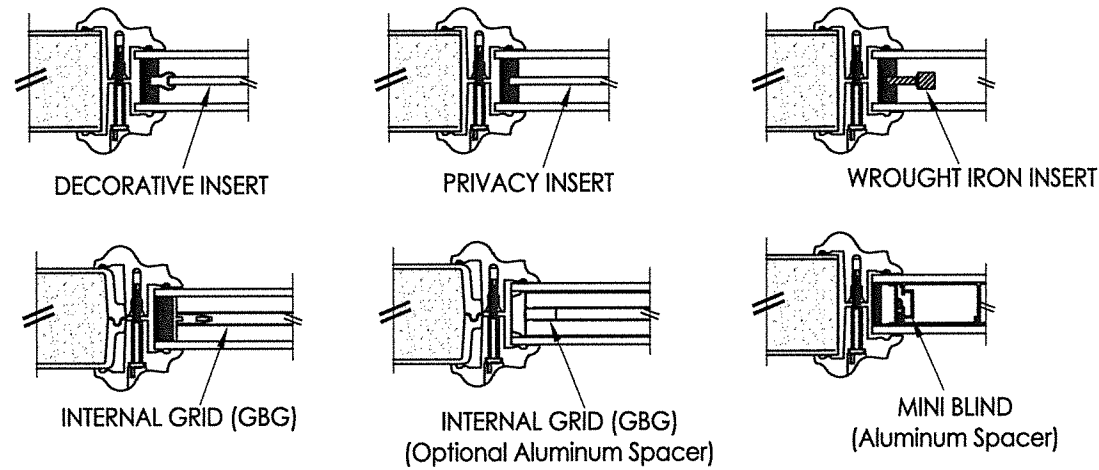
G2 GLAZING DETAIL
BTS Lite Frame
Sidelites



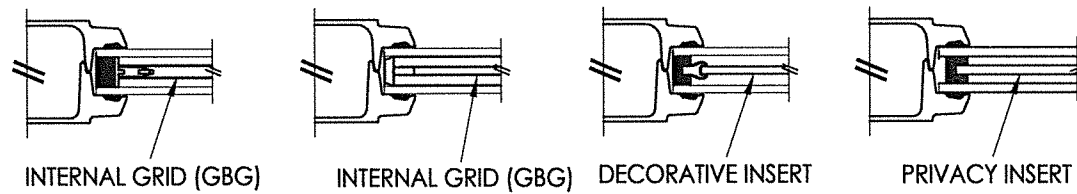
G3 GLAZING DETAIL
Flush Glazing
Sidelites



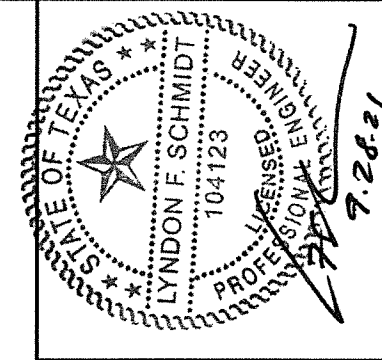
9/16" INSULATED GLASS INSERT OPTIONS



1" INSULATED GLASS INSERT OPTIONS



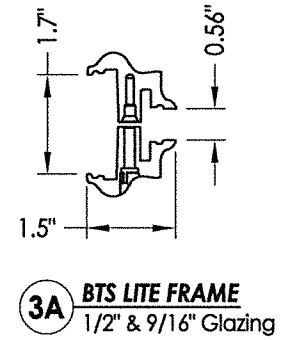
3/4" INSULATED GLASS INSERT OPTIONS



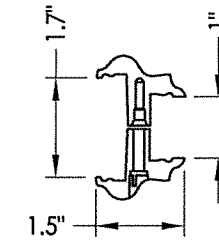
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

CERTIFICATE OF REGISTRATION # F-11852



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



3B BTS LITE FRAME
1" Glazing

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

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

DATE: 11/14/17

SCALE: N.T.S.

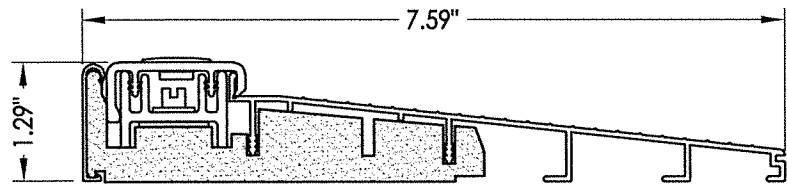
DWG. BY: JK

CHK. BY: LFS

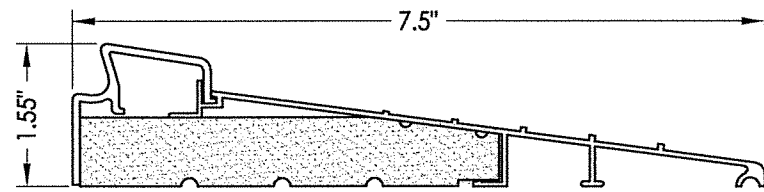
DRAWING NO.: TX-4720

SHEET 9 OF 11

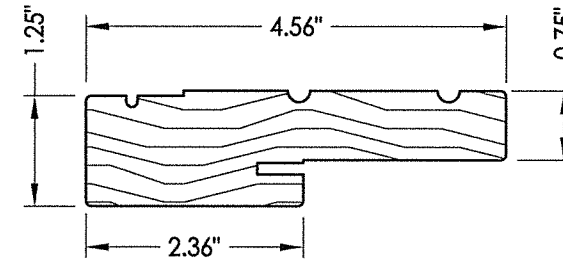
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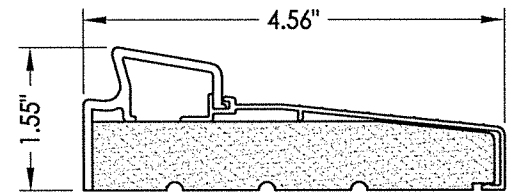
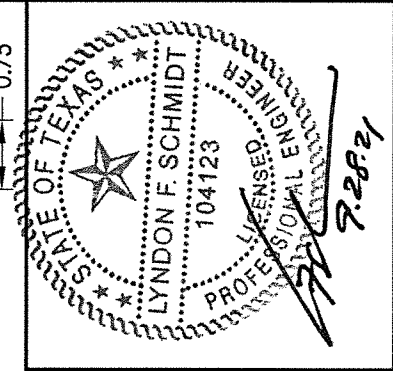
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



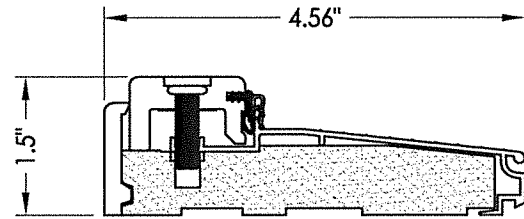
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



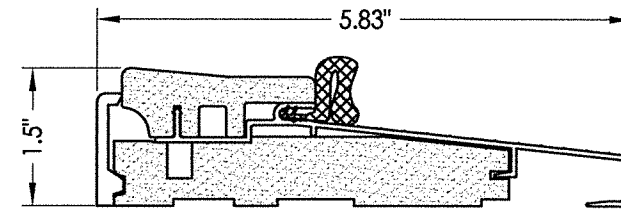
1 WOOD JAMB



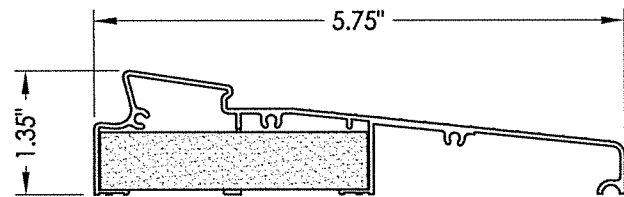
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



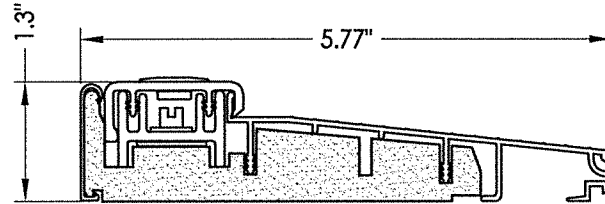
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



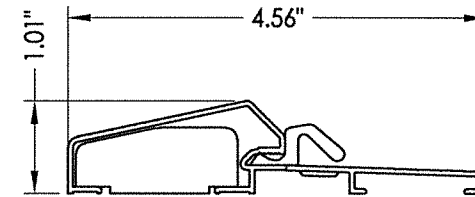
16 OUTSWING THRESHOLD
Composite Sill



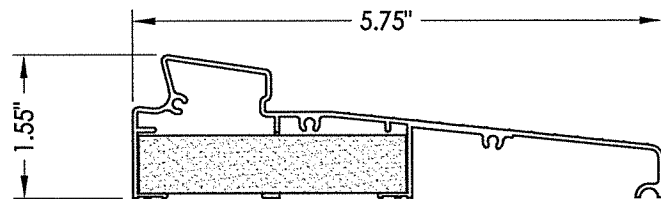
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



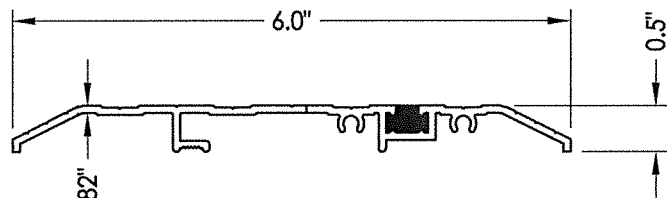
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



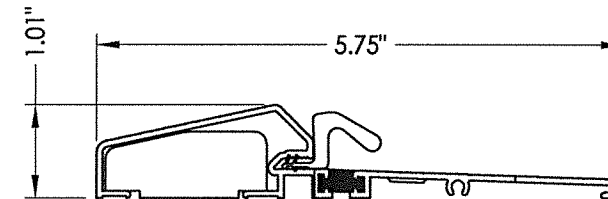
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



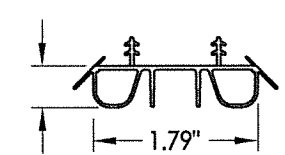
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



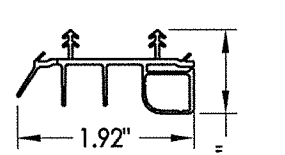
15 PUBLIC ACCESS THRESHOLD



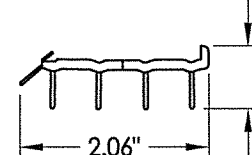
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



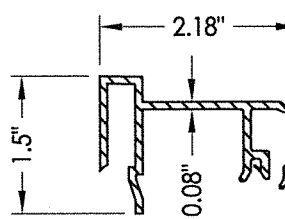
8 SWEEP



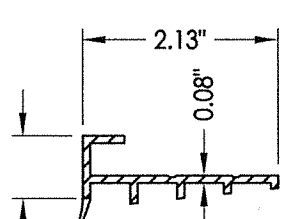
9 SWEEP



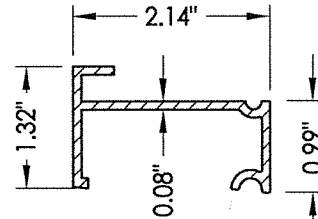
10 SWEEP



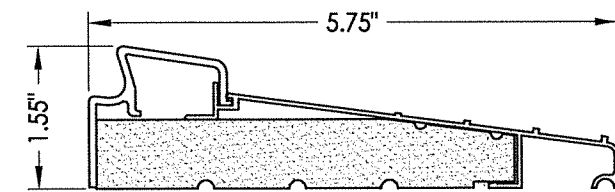
75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold



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

COMPONENTS

NO.	DATE	REVISIONS	LFS	BY
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

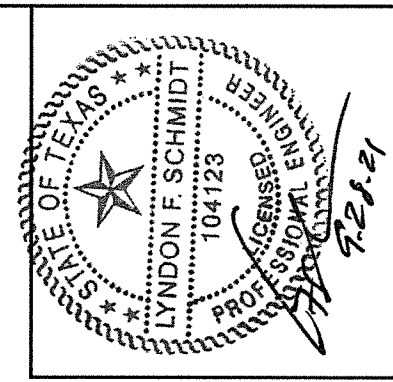
DRAWING NO.:

TX-4720

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
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	-
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.
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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-4720

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"

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.