

"Smooth-Star", "Fiber-Classic" & "Classic-Craft"

Glazed Fiberglass Double Door w/ or w/out Sidelites

IN SWING / OUT SWING
"Non-Impact"

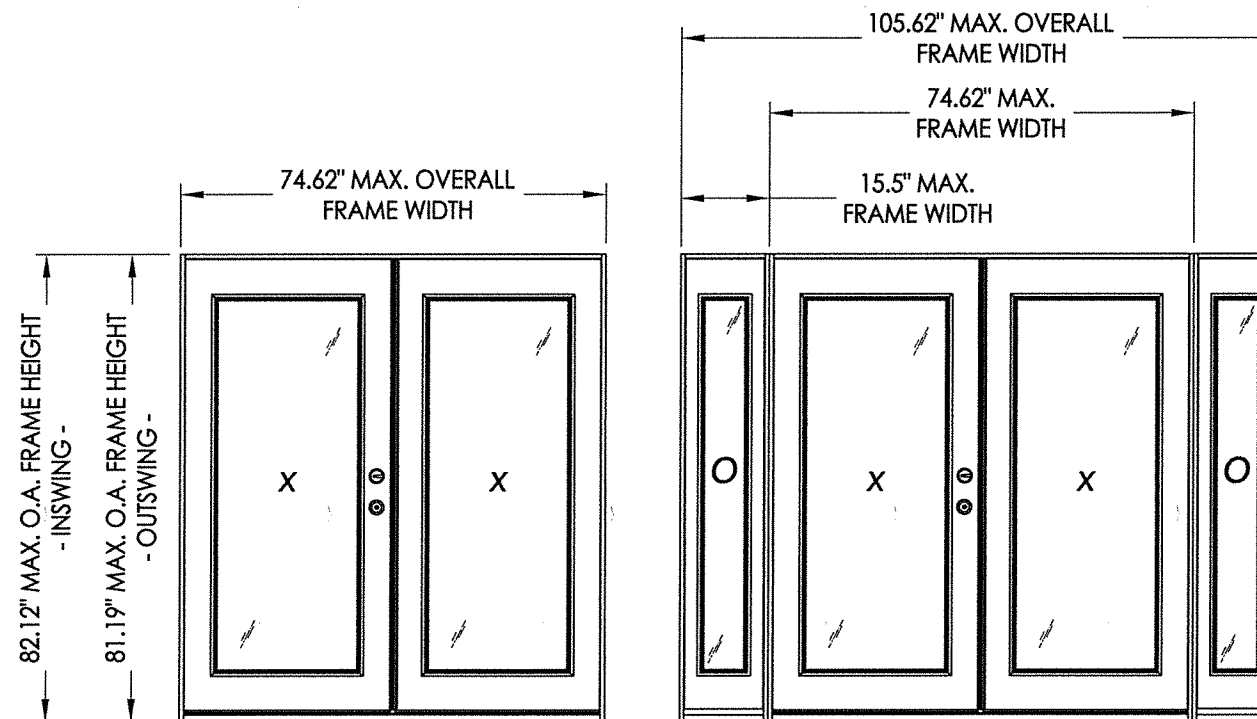
EVALUATED FOR USE IN THE STATE OF TEXAS

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:

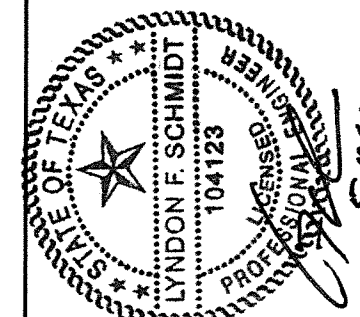
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section 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	Sidelite panel & glazing detail (Classic Craft)
6	Elevations
7	Horizontal cross sections
8	Vertical cross sections
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10	Frame anchoring
11	Astragal details
12	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	SWING	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
XX	74.62" x 82.12"	IN SWING	+35.0	-40.0
	74.62" x 81.19"	OUT SWING	+35.0	-35.0
OXXO	105.62" x 82.12"	IN SWING	+35.0	-40.0
	105.62" x 81.19"	OUT SWING	+35.0	-35.0



Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

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

NO.	DATE	BY	REVISIONS
3	5/14/20	LFS	UPDATE TO 2018 IRC/IRC CODE
2	9/05/18	LFS	REVISED LITE SCREW SPACING
1	7/22/15	LFS	ADDED GENERAL NOTE 5.

DATE: 10/08/12

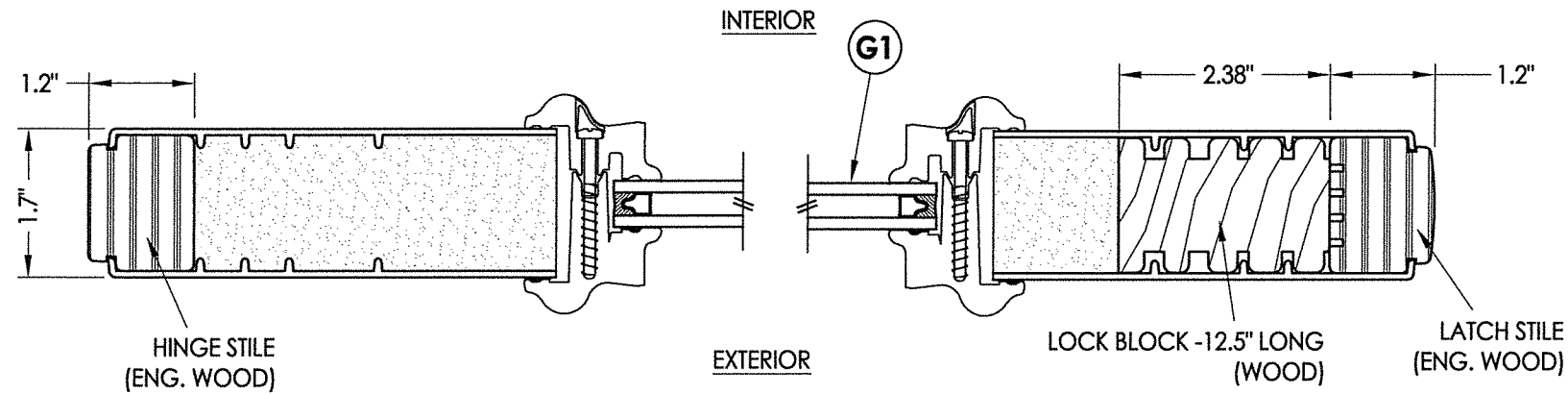
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DWG. BY: JK

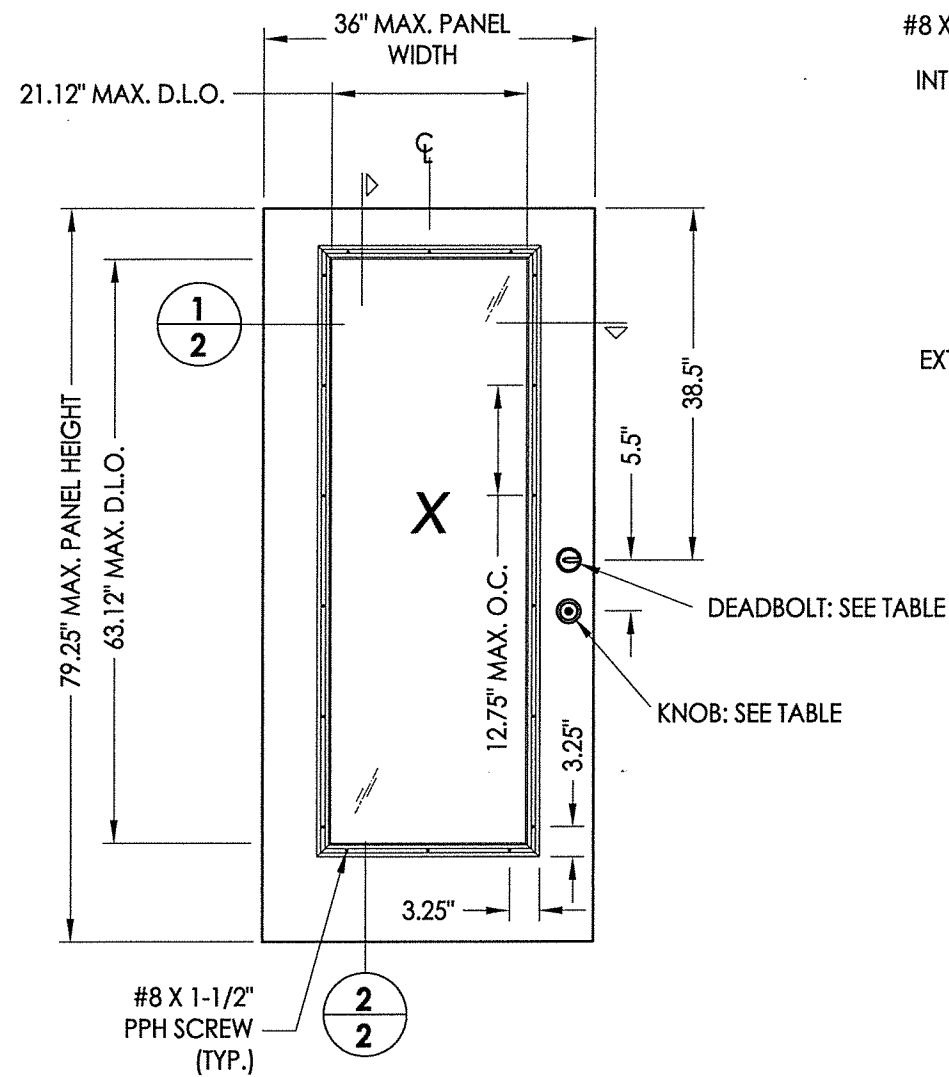
CHK. BY: LFS

DRAWING NO.: TX-4263

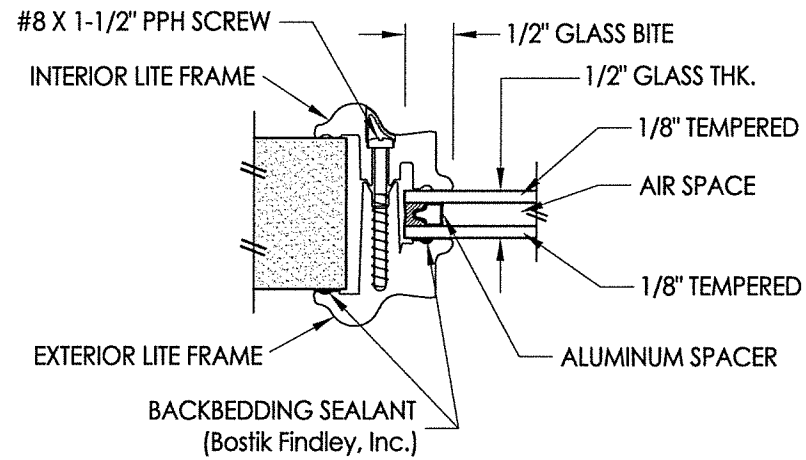
SHEET 1 OF 12



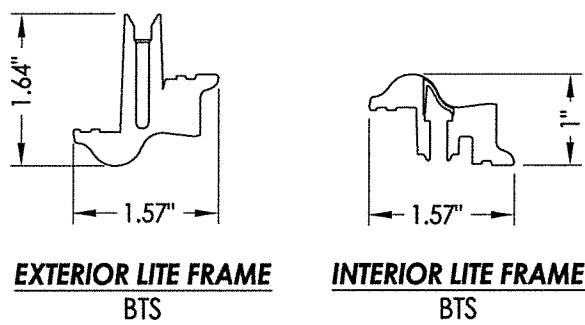
1 HORIZONTAL CROSS SECTION



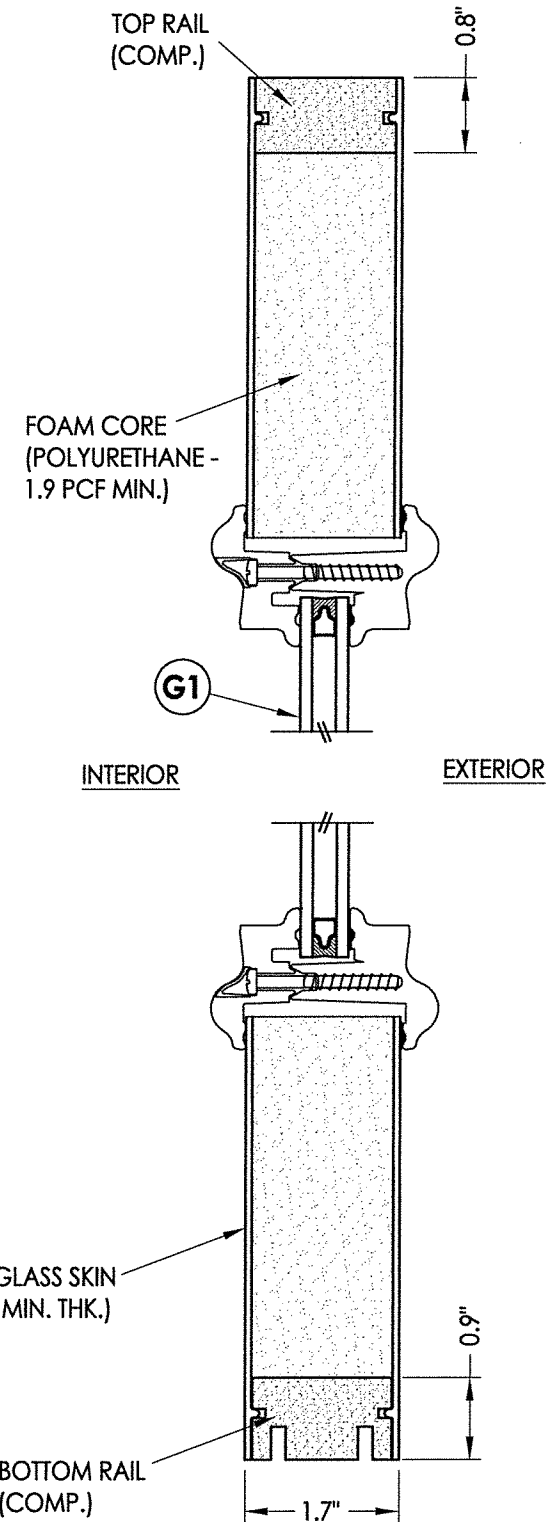
40 DOOR PANEL Smooth Star/Fiber Classic



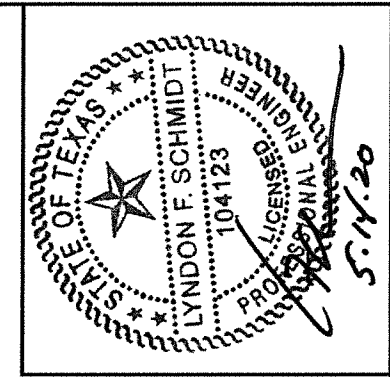
G1 GLAZING DETAIL BTS Lip Lite Frame



HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: "F" SERIES DEADBOLT: "B" SERIES



2 VERTICAL CROSS SECTION



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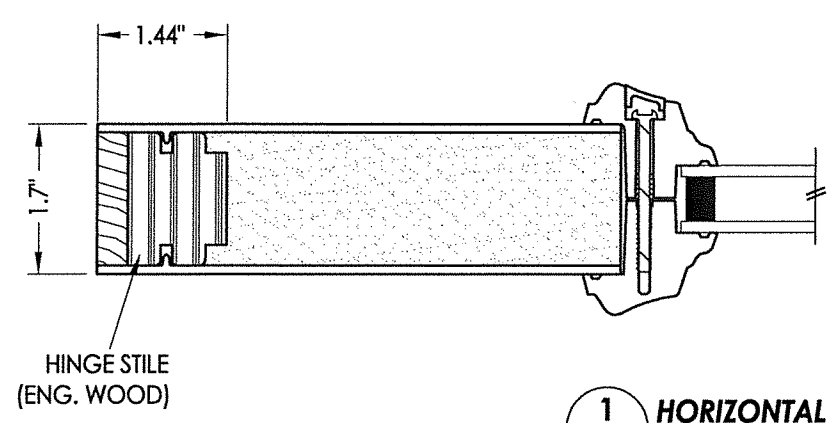
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

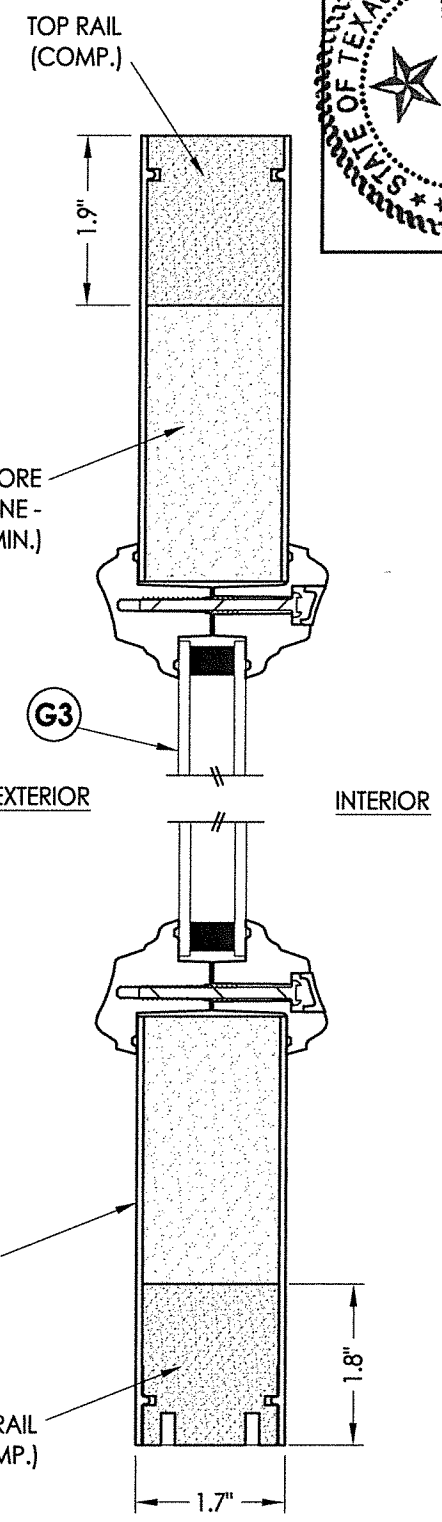
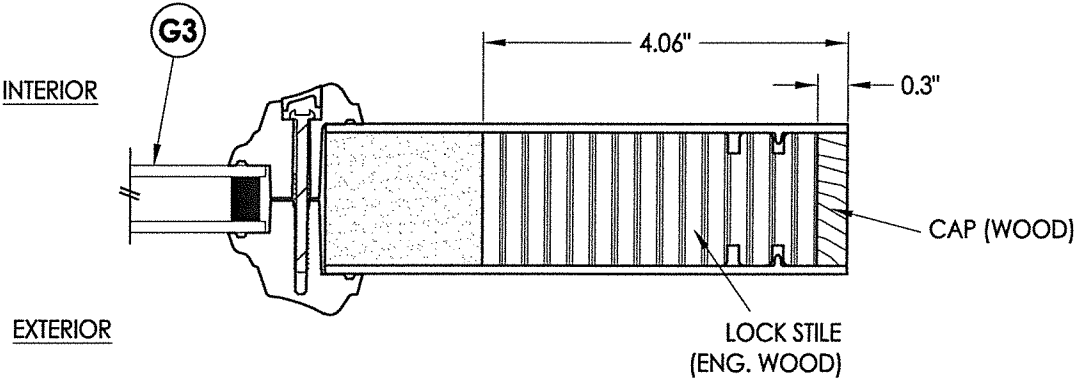
PART OR ASSEMBLY: DOOR PANEL & GLAZING DETAIL (SMOOTH STAR/FIBER CLASSIC)

NO.	DATE	REVISIONS
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2	9/05/18	REVISED LITE SCREW SPACING
1	7/22/15	ADDED GENERAL NOTE 5.
		BY

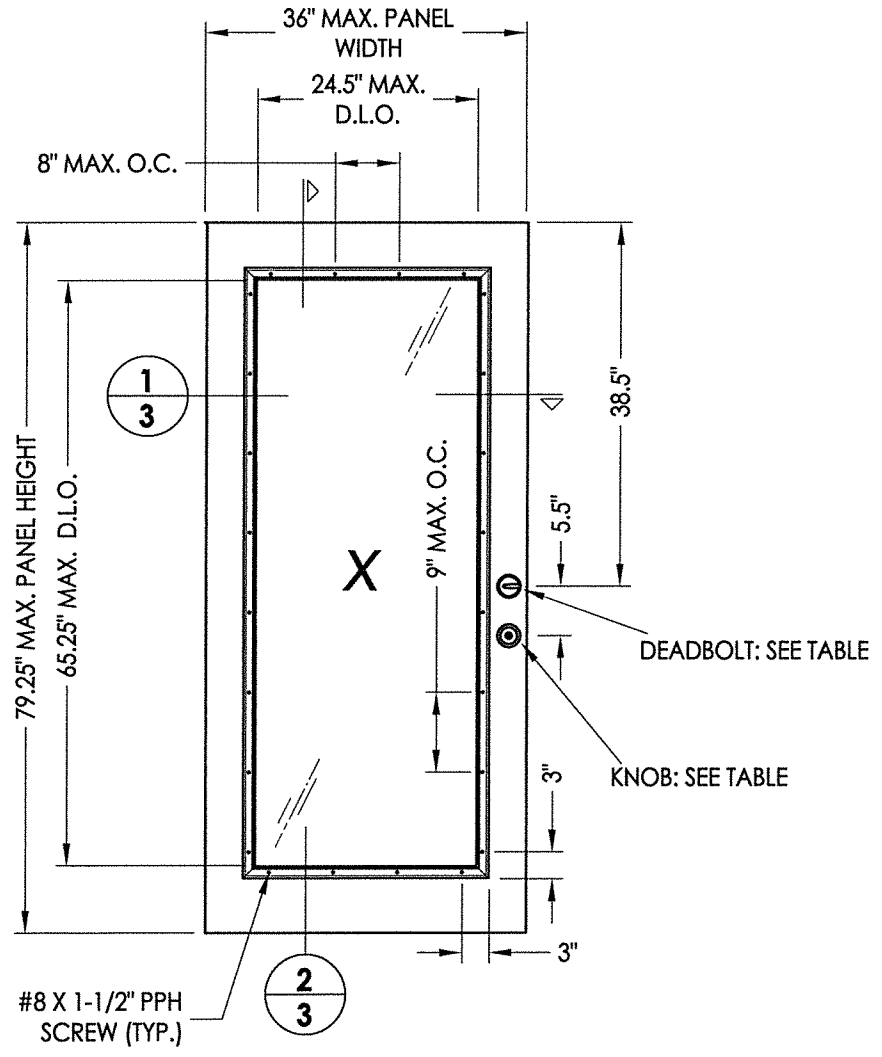
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4263
SHEET 2 OF 12



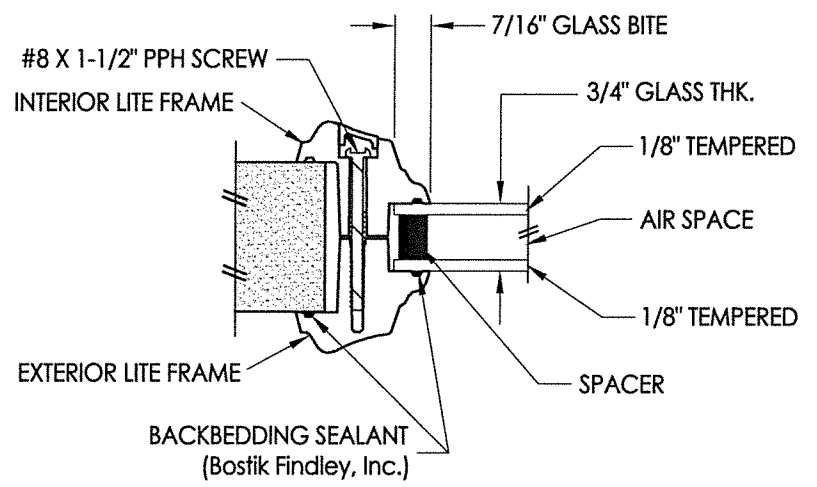
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3 HORIZONTAL CROSS SECTION



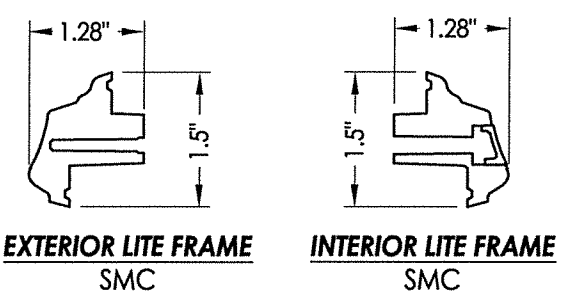
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3 VERTICAL CROSS SECTION



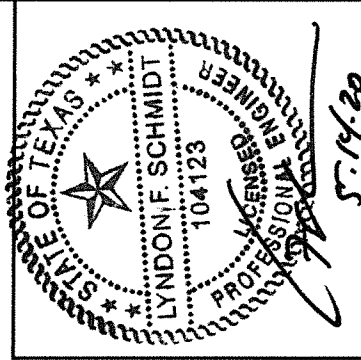
41 DOOR PANEL
Classic Craft



G3 GLAZING DETAIL
SMC Lip Lite Frame



HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: "F" SERIES
	DEADBOLT: "B" SERIES

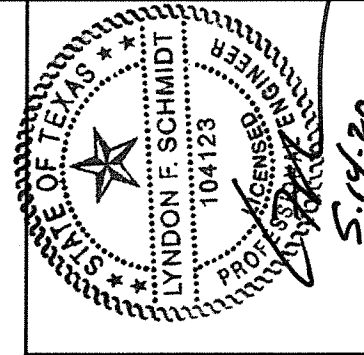
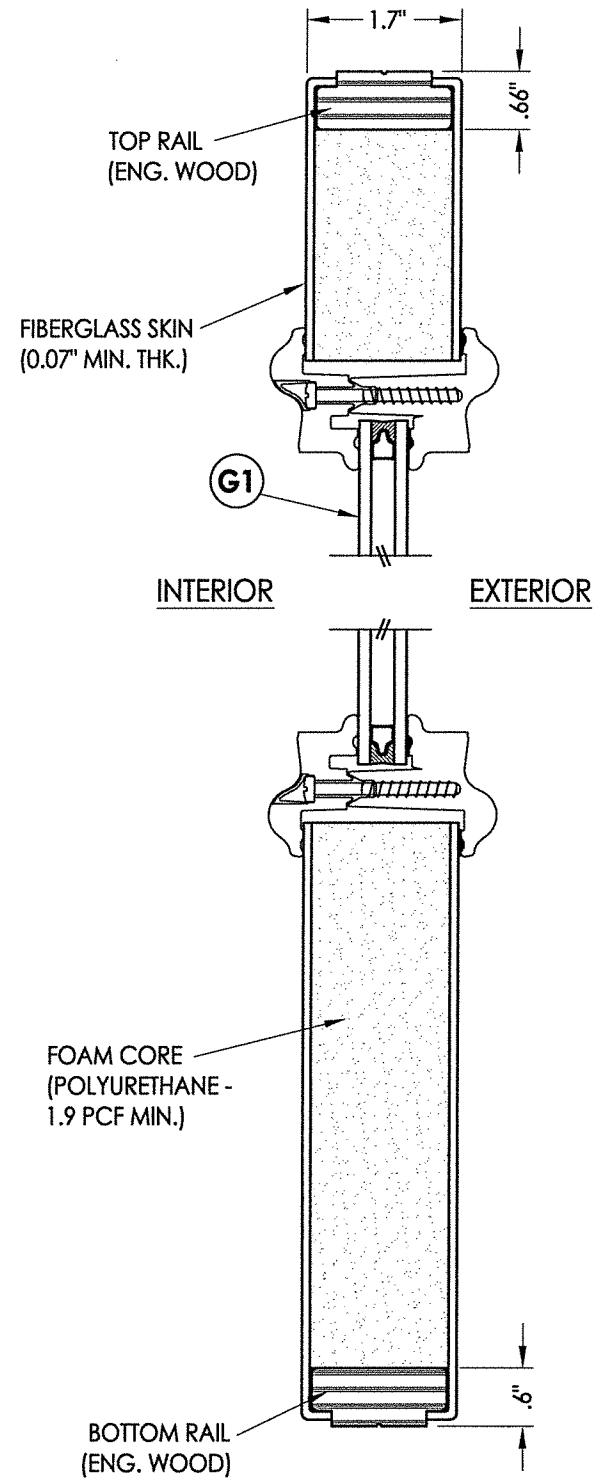
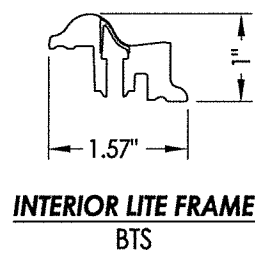
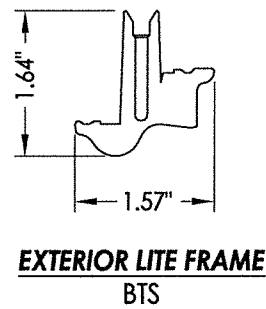
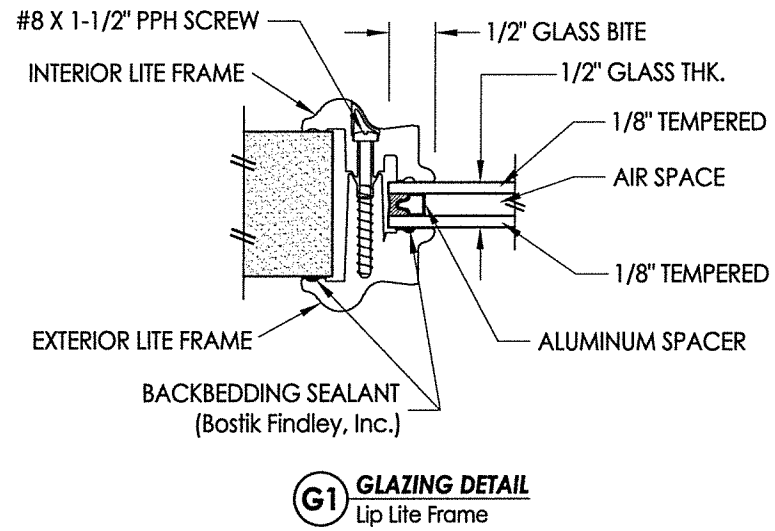
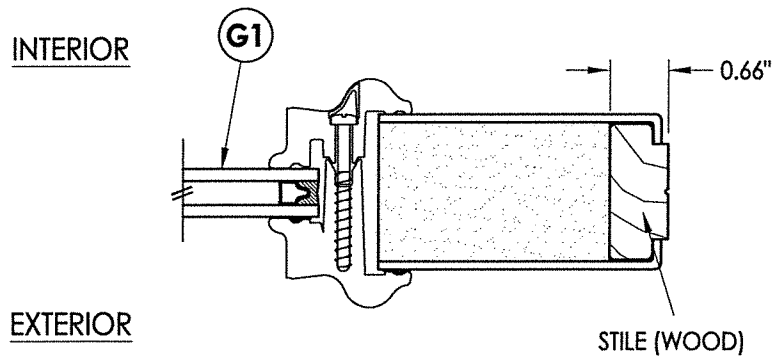
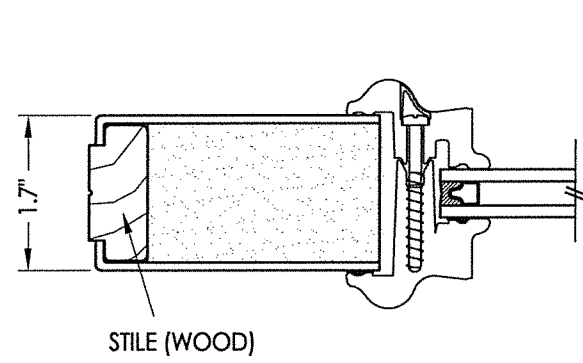
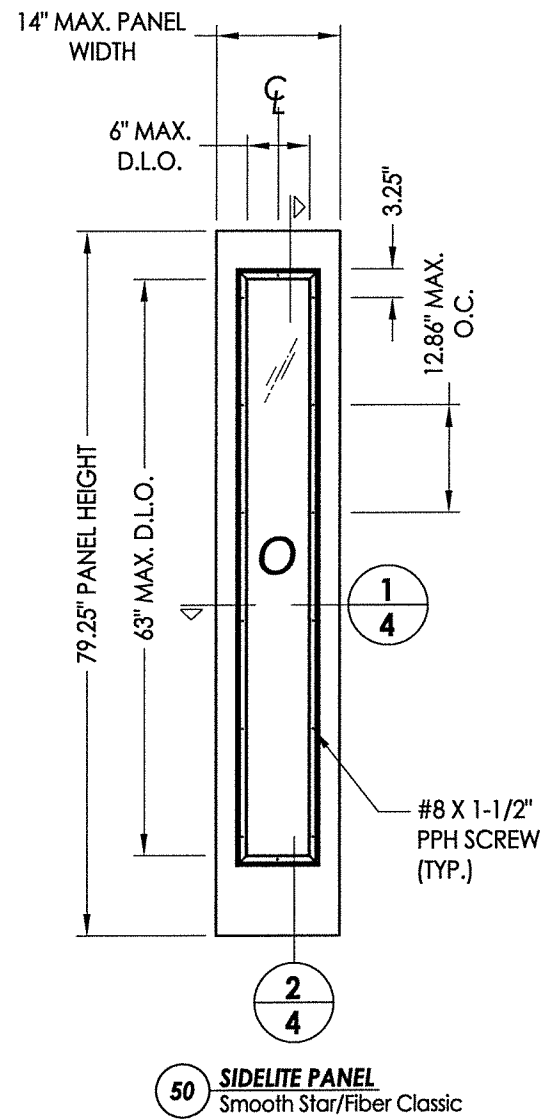


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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:	DOOR PANEL & GLAZING DETAIL (CLASSIC CRAFT)	
NO.	DATE	BY
3	5/14/20	LFS
2	9/05/18	LFS
1	7/22/15	LFS
REVISIONS		
DATE: 10/08/12		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: TX-4263		
SHEET 3 OF 12		

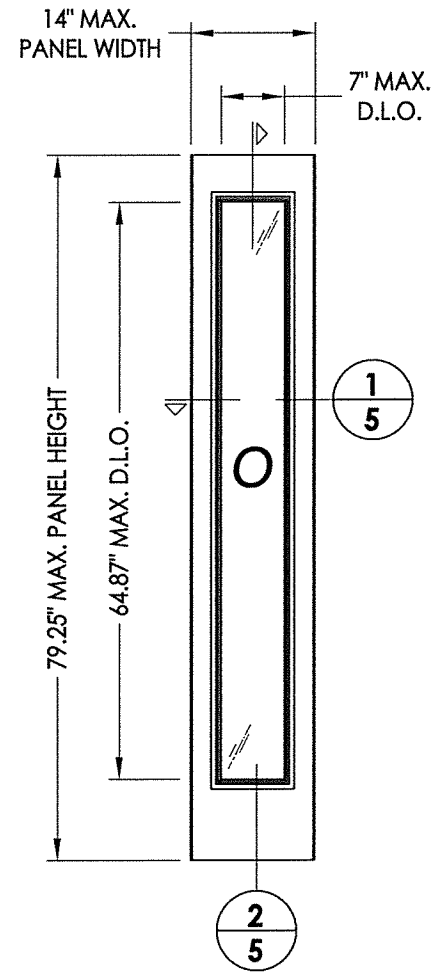


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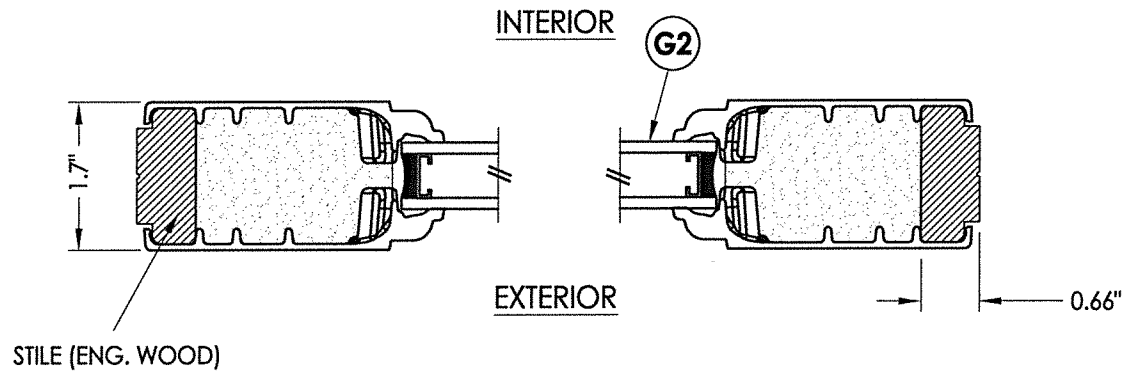
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CERTIFICATE OF REGISTRATION # F-11852

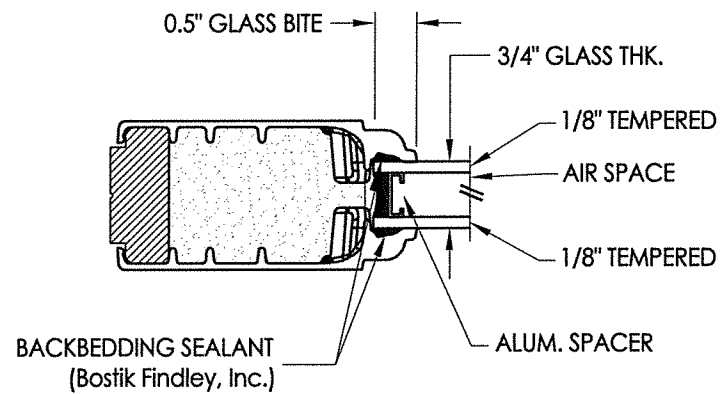
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL & GLAZING DETAIL (SMOOTH STAR/FIBER CLASSIC)	
NO.	DATE	BY	REVISIONS
3	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
2	9/05/18	LFS	REVISED LITE SCREW SPACING
1	7/22/15	LFS	ADDED GENERAL NOTE 5.
DATE: 10/08/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4263			
SHEET 4 OF 12			



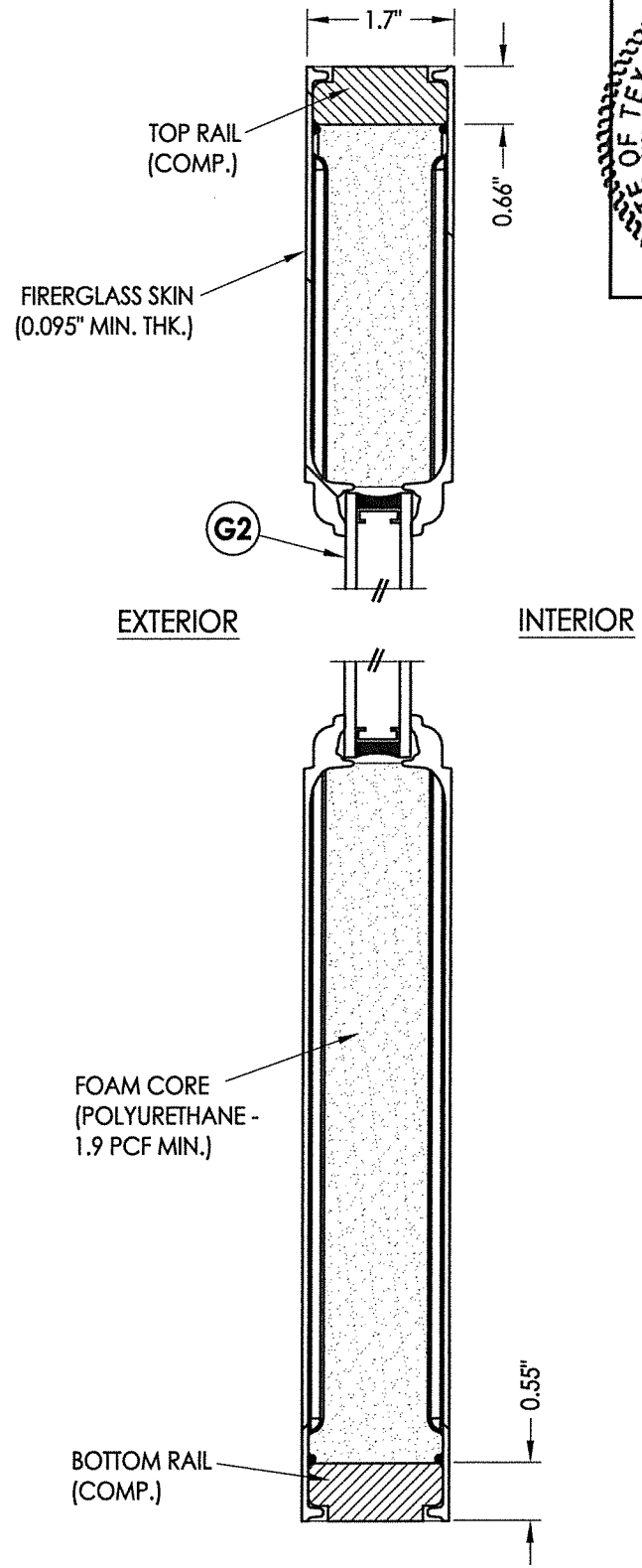
51 SIDELITE PANEL
Classic Craft



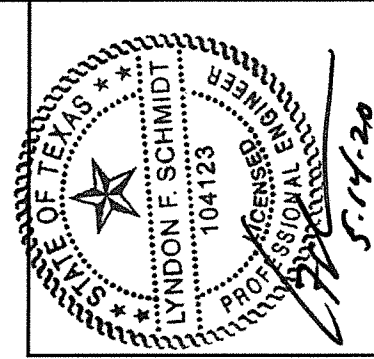
1 HORIZONTAL CROSS SECTION



G2 GLAZING DETAIL
Flush Glazed



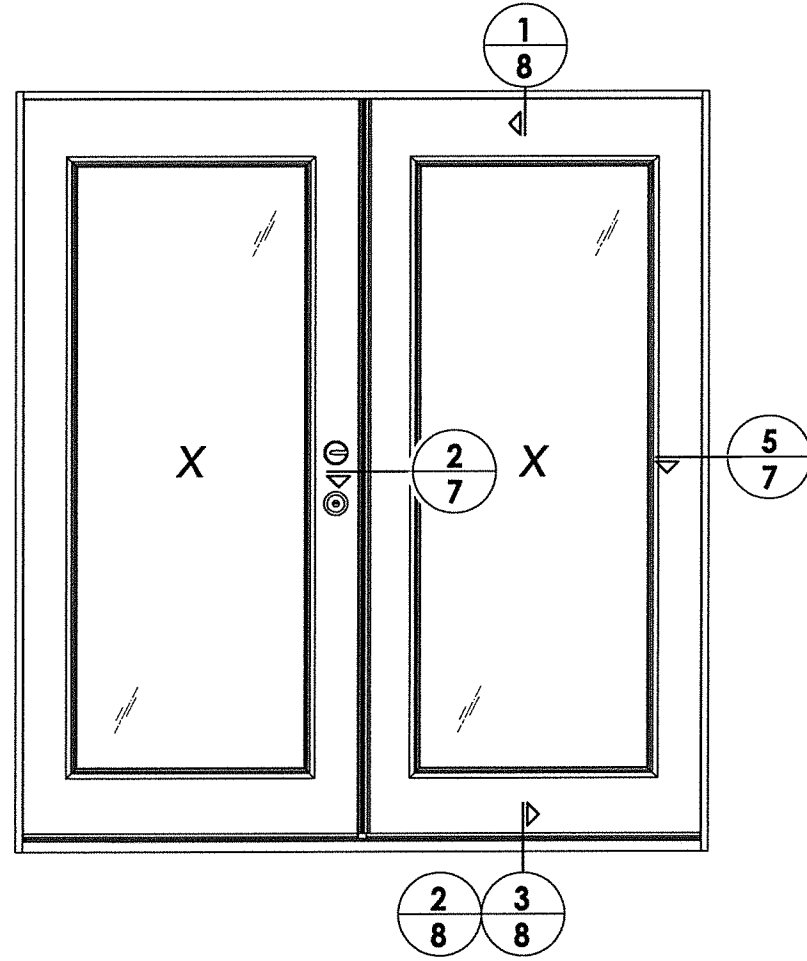
2 VERTICAL CROSS SECTION



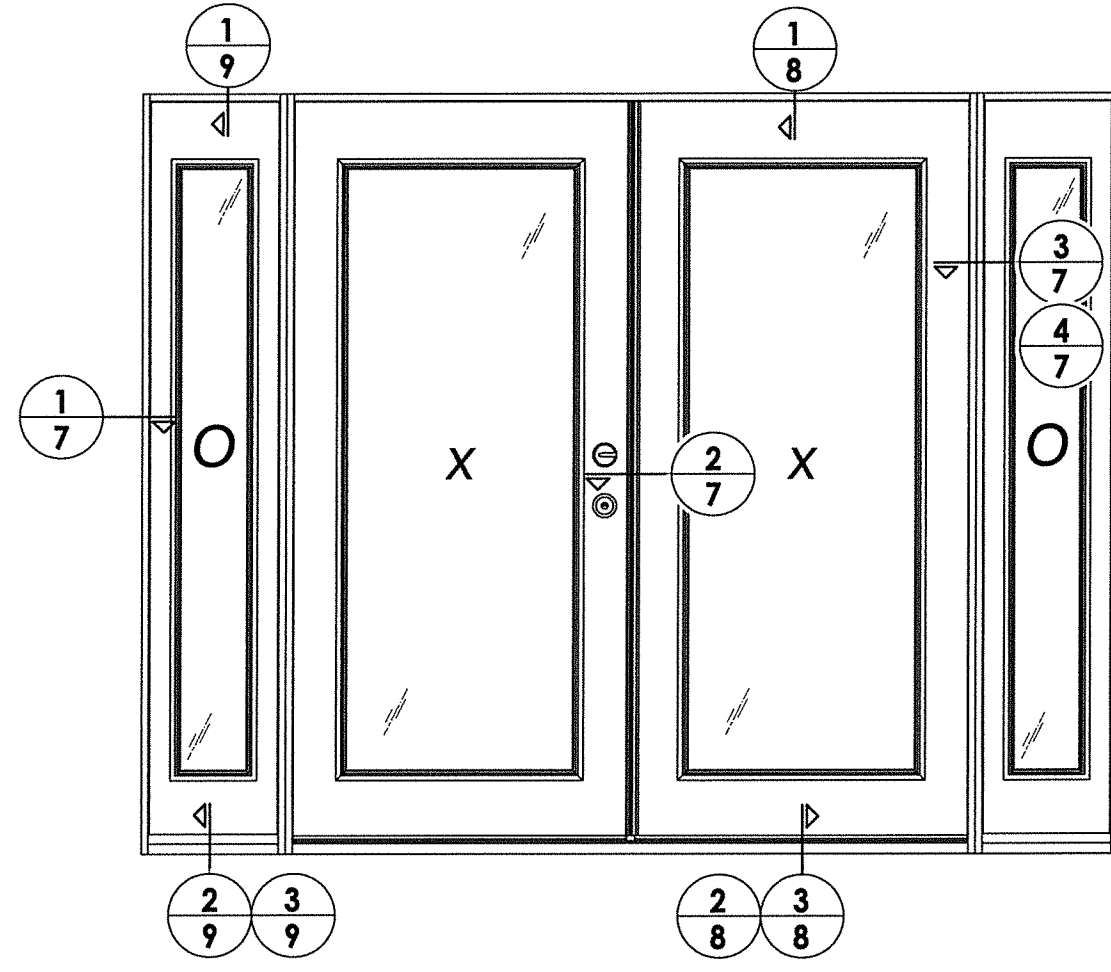
Documents Prepared By: Lyndon F. Schmidt, P.E.
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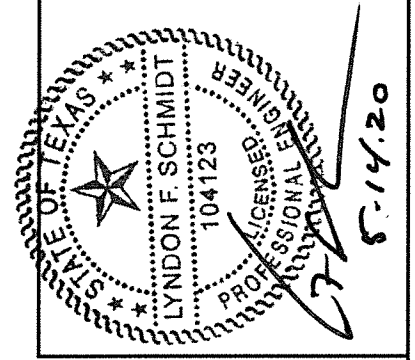
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PART OR ASSEMBLY: SIDELITE PANEL & GLAZING DETAIL (CLASSIC CRAFT)		NO.	DATE
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LFS	9/05/18	2	9/05/18
LFS	7/22/15	1	7/22/15
BY			
DATE: 10/08/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4263			
SHEET 5 of 12			



ELEVATION (XX)



ELEVATION (OXXO)



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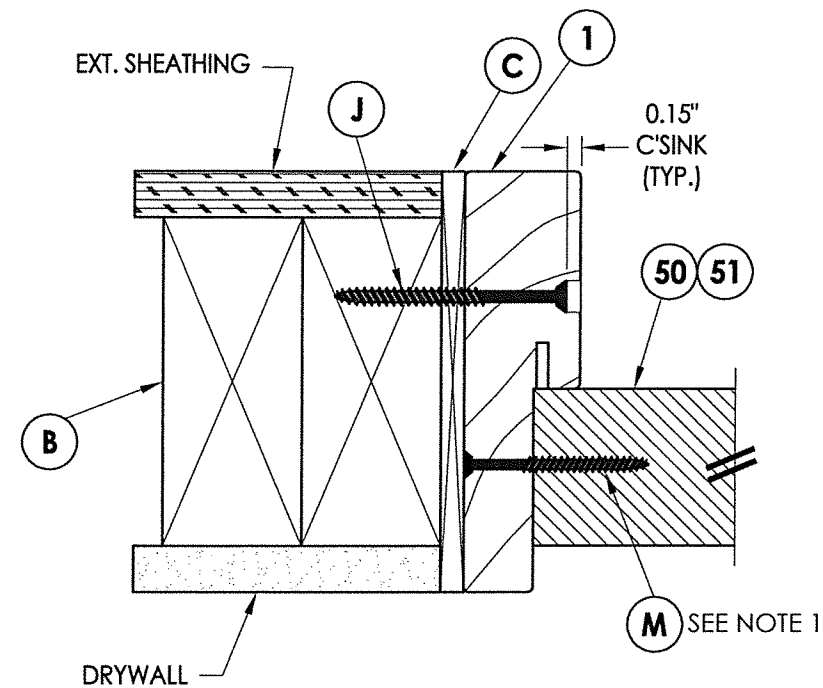
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Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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

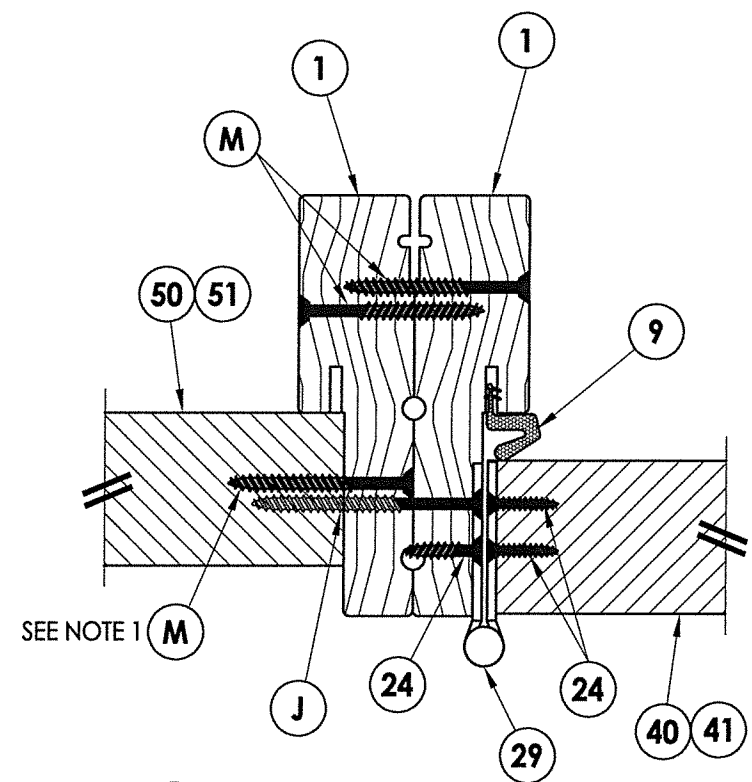
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2	9/05/18	REVISED LITE SCREW SPACING	LFS
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4263
SHEET 6 OF 12

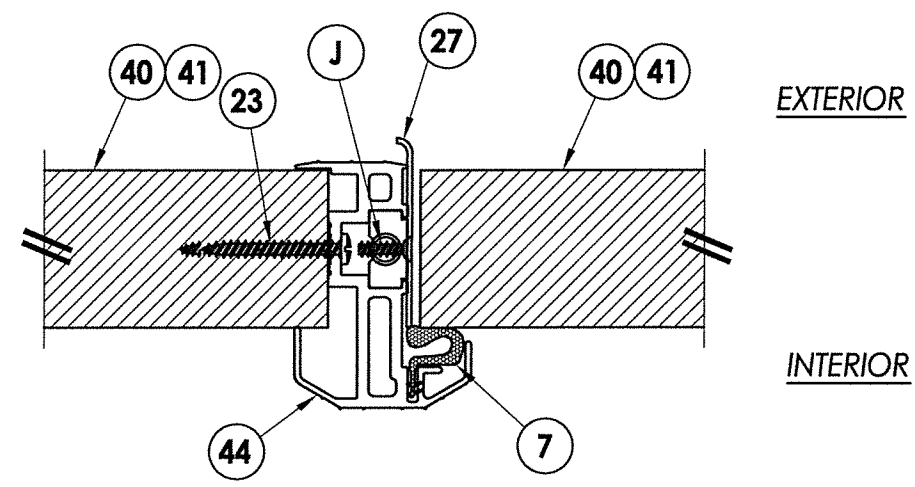
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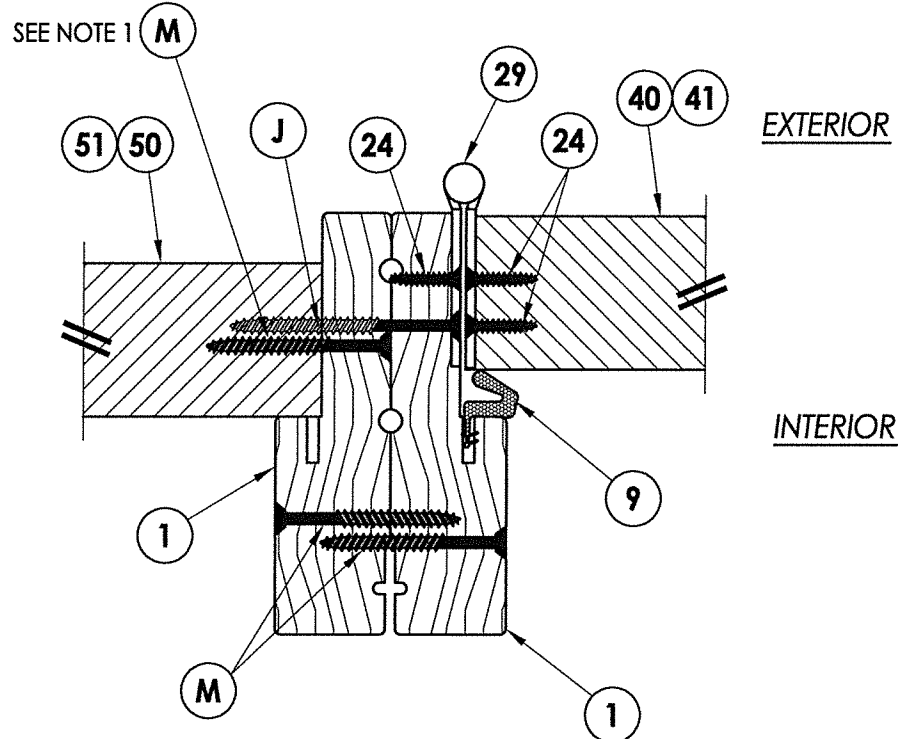
1 HORIZONTAL CROSS SECTION
7 Inswing shown - Outswing also approved



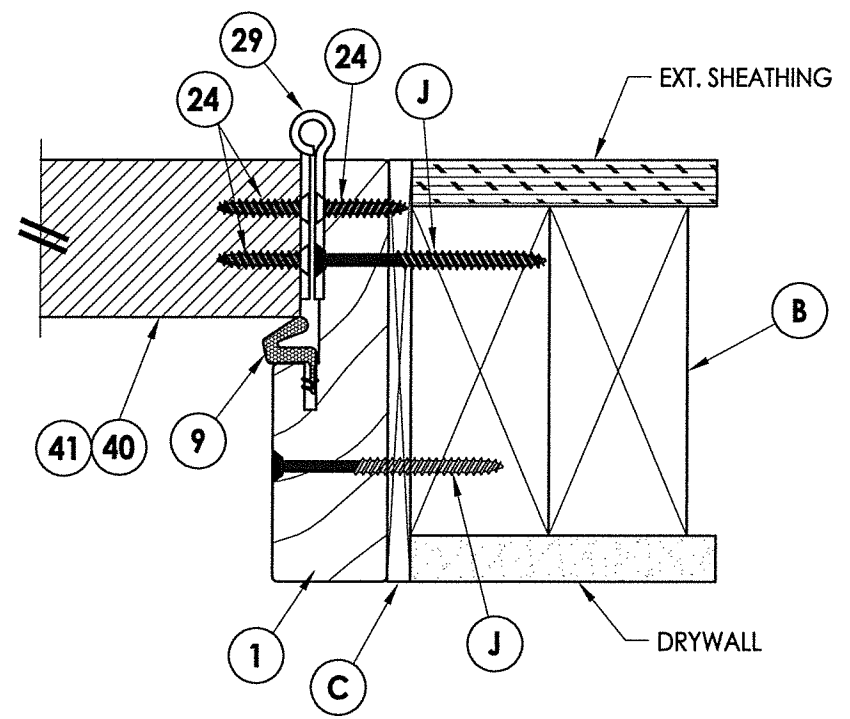
3 HORIZONTAL CROSS SECTION
7 Inswing shown



2 HORIZONTAL CROSS SECTION
7 Outswing shown - Inswing also approved

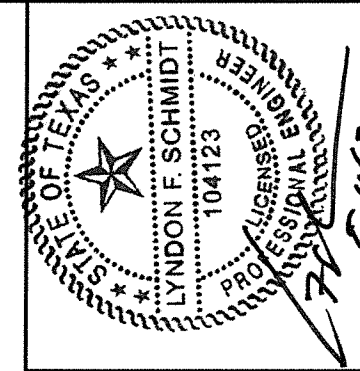


4 HORIZONTAL CROSS SECTION
7 Outswing shown



5 HORIZONTAL CROSS SECTION
7 Outswing shown - Inswing also approved

Note:
 1. Sidelite assembly screws located 6" from each end plus 4 more equally spaced (6 total).



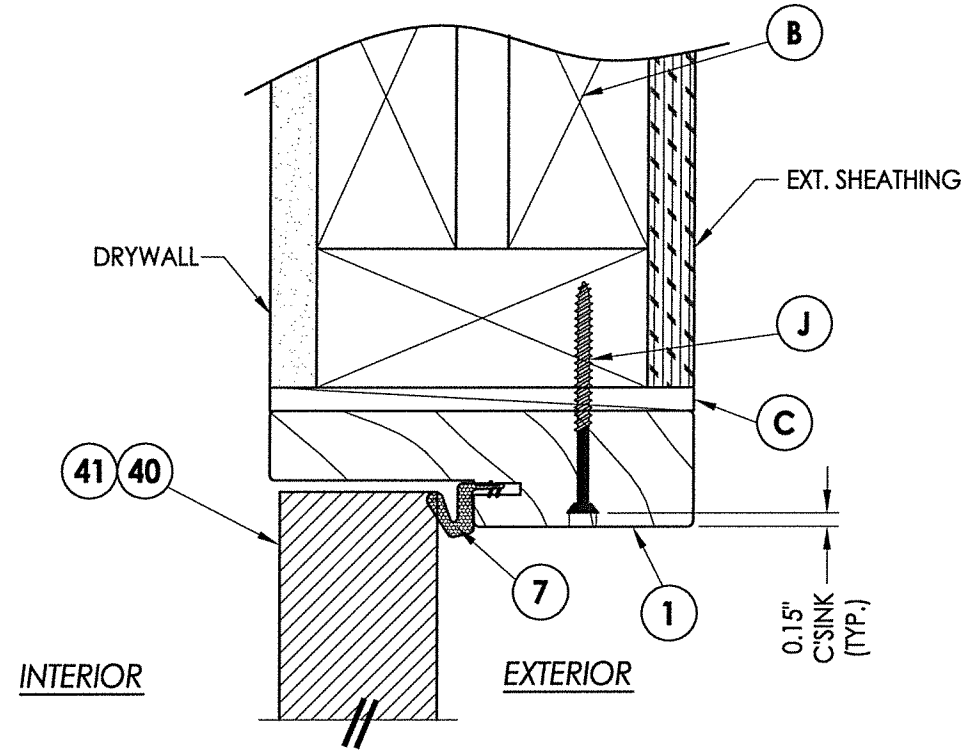
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL 33595
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 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

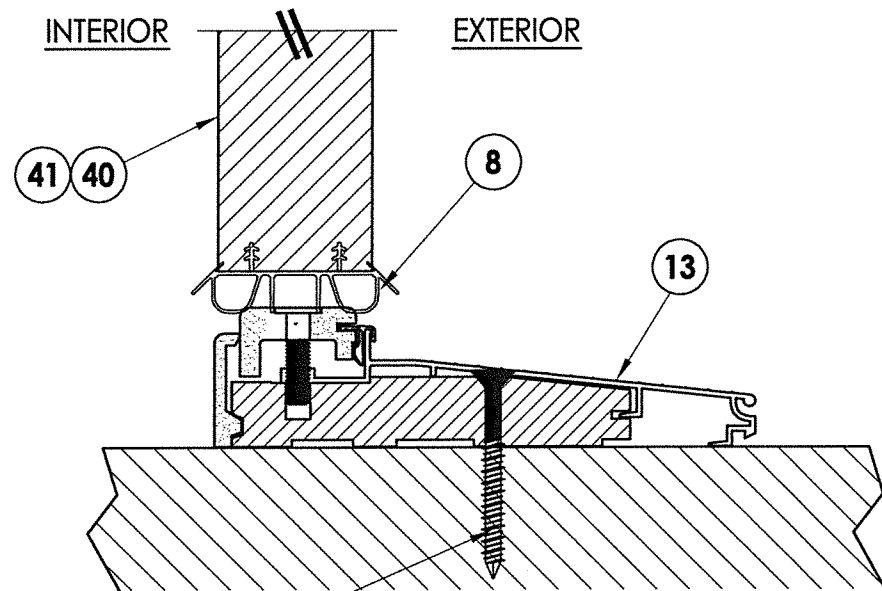
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3	5/14/20	UPDATE TO 2018 IBC/IRC CODE	LFS
2	9/05/18	REVISED LITE SCREW SPACING	LFS
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 10/08/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4263
 SHEET 7 OF 12

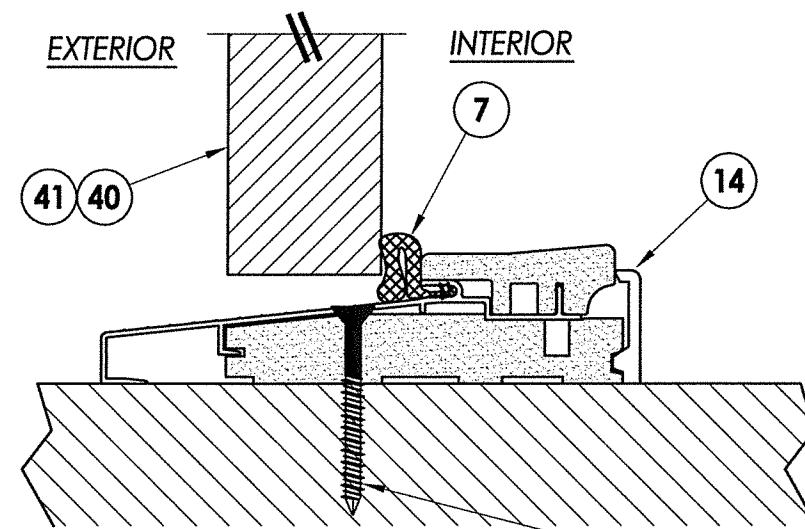
© 2012 R.W. BUILDING CONSULTANTS INC.



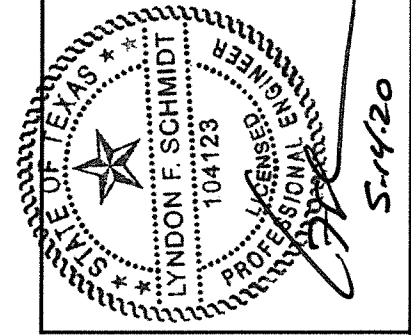
1 VERTICAL CROSS SECTION
8 Inswing shown - Outswing also approved



J WOOD
P CONCRETE
2 VERTICAL CROSS SECTION
8 Inswing configuration



J WOOD
P CONCRETE
3 VERTICAL CROSS SECTION
8 Outswing configuration



Documents Prepared By: Lyndon F. Schmidt, P.E.
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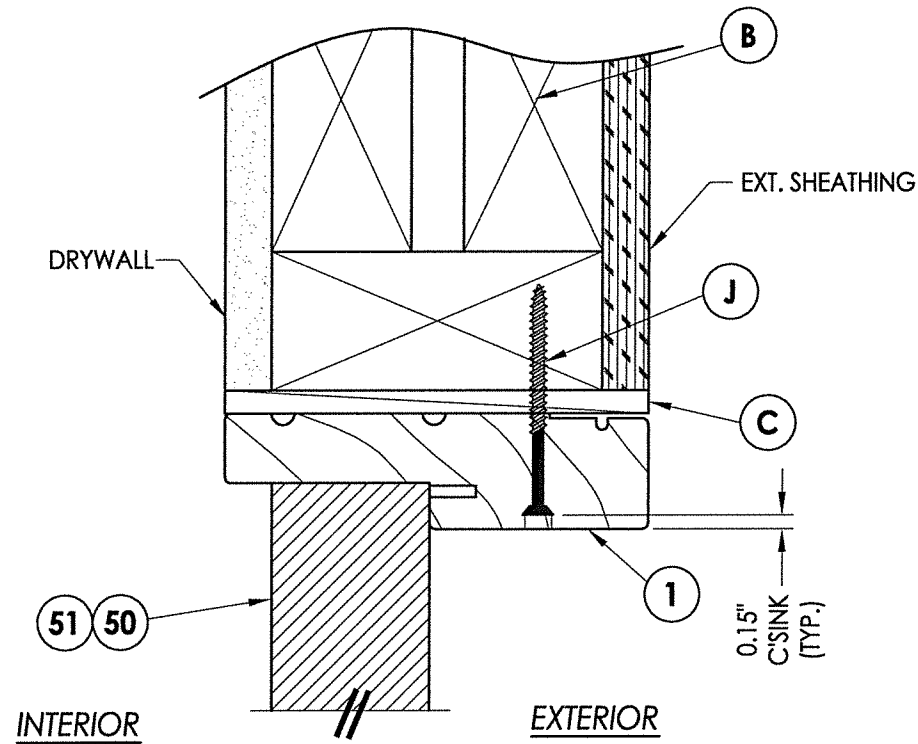
RW BUILDING CONSULTANTS, INC.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
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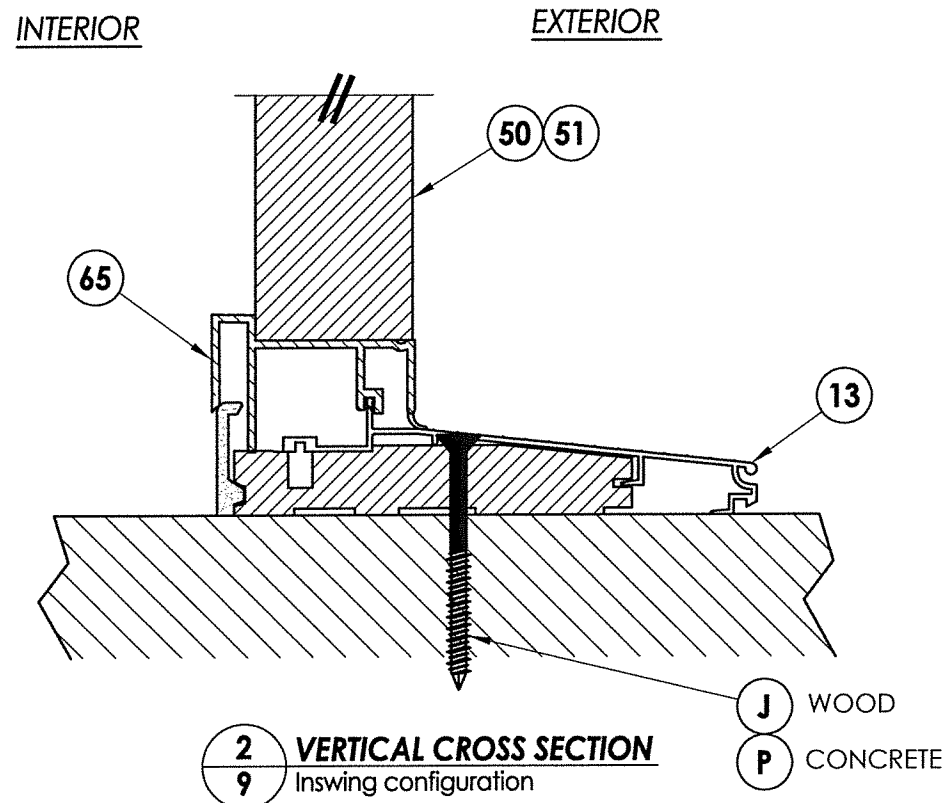
PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
3	5/14/20	UPDATE TO 2018 IBC/IRC CODE	LFS
2	9/05/18	REVISED LITE SCREW SPACING	LFS
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

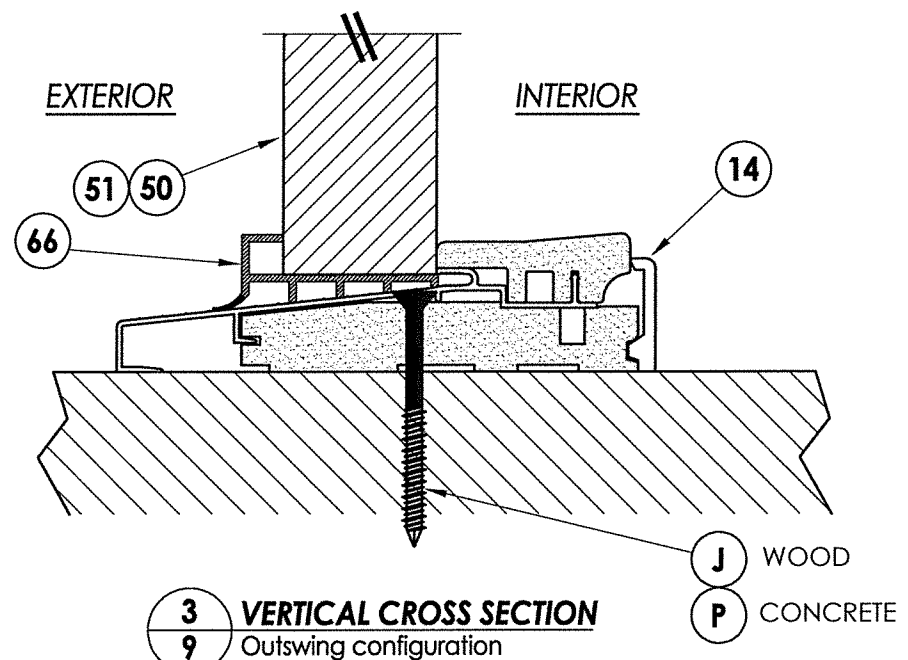
DATE:	10/08/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4263
SHEET	8 OF 12



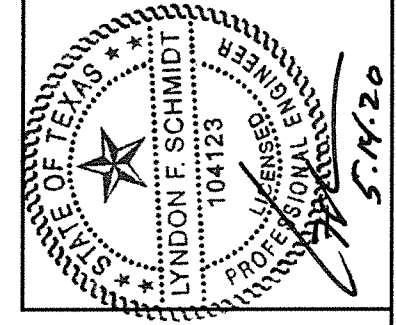
1 VERTICAL CROSS SECTION
9 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
9 Inswing configuration



3 VERTICAL CROSS SECTION
9 Outswing configuration



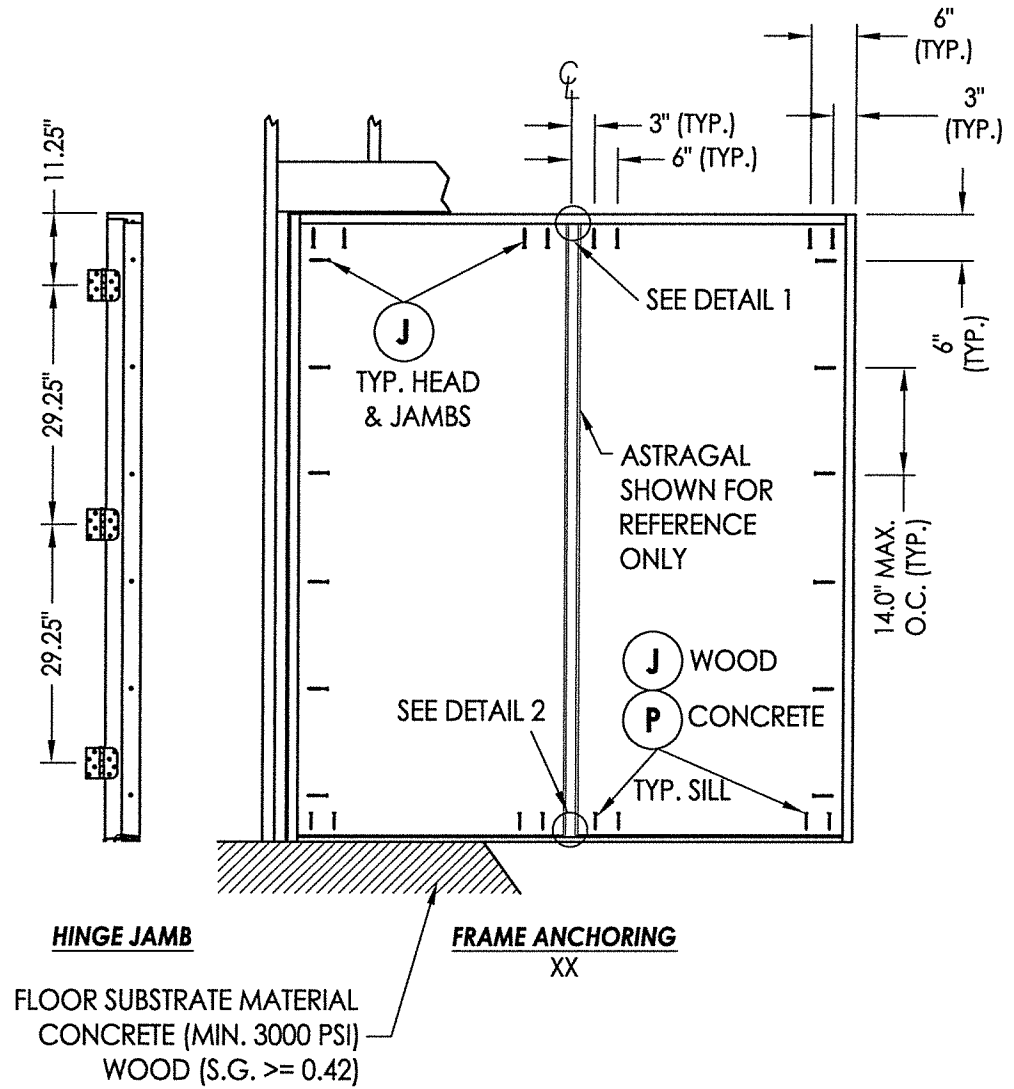
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123

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 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

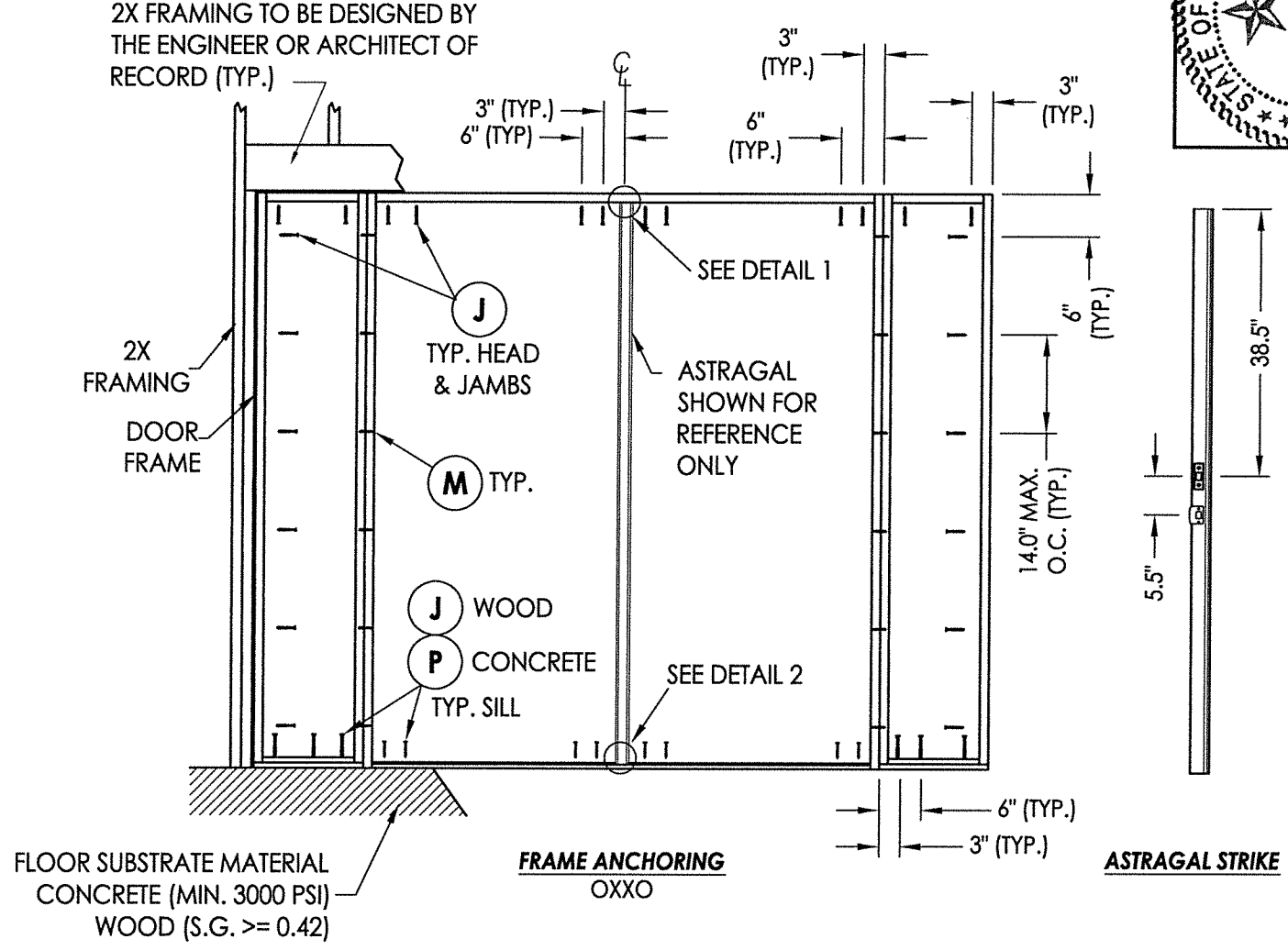
NO.	DATE	REVISIONS	BY
3	5/14/20	UPDATE TO 2018 IBC/IRC CODE	LFS
2	9/05/18	REVISED LITE SCREW SPACING	LFS
1	7/22/15	ADDED GENERAL NOTE 5.	LFS

DATE: 10/08/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4263
 SHEET 9 OF 12



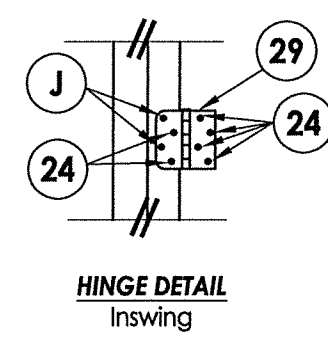
HINGE JAMB
 FLOOR SUBSTRATE MATERIAL
 CONCRETE (MIN. 3000 PSI)
 WOOD (S.G. >= 0.42)

FRAME ANCHORING
 XX

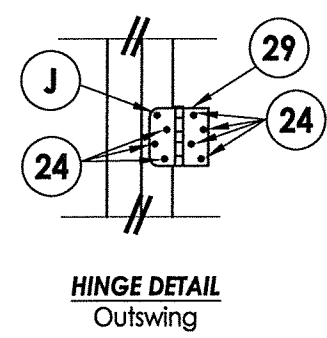


ASTRAGAL STRIKE
 FLOOR SUBSTRATE MATERIAL
 CONCRETE (MIN. 3000 PSI)
 WOOD (S.G. >= 0.42)

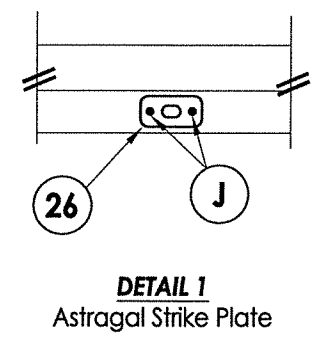
FRAME ANCHORING
 OXXO



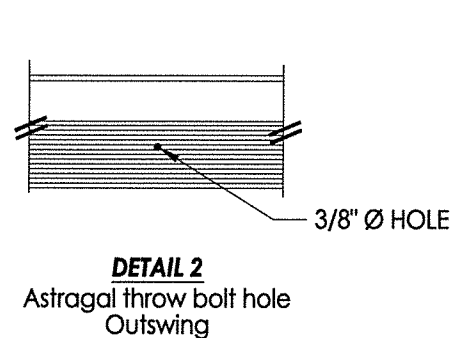
HINGE DETAIL
 Inswing



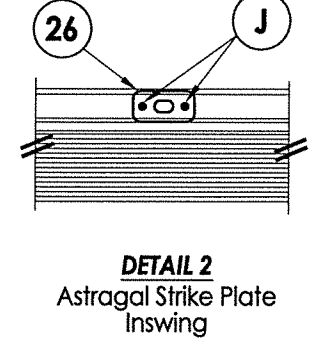
HINGE DETAIL
 Outswing



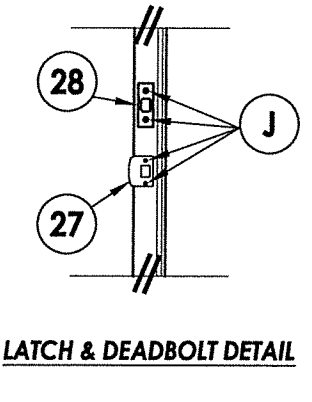
DETAIL 1
 Astragal Strike Plate



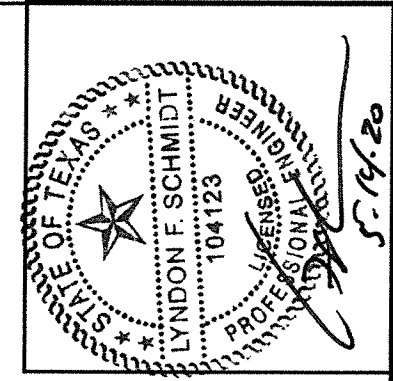
DETAIL 2
 Astragal throw bolt hole
 Outswing



DETAIL 2
 Astragal Strike Plate
 Inswing



LATCH & DEADBOLT DETAIL



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

TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	5/14/20	UPDATE TO 2018 IBC/IRC CODE LFS
2	9/05/18	REVISED LITE SCREW SPACING LFS
1	7/22/15	ADDED GENERAL NOTE 5. LFS

DATE: 10/08/12

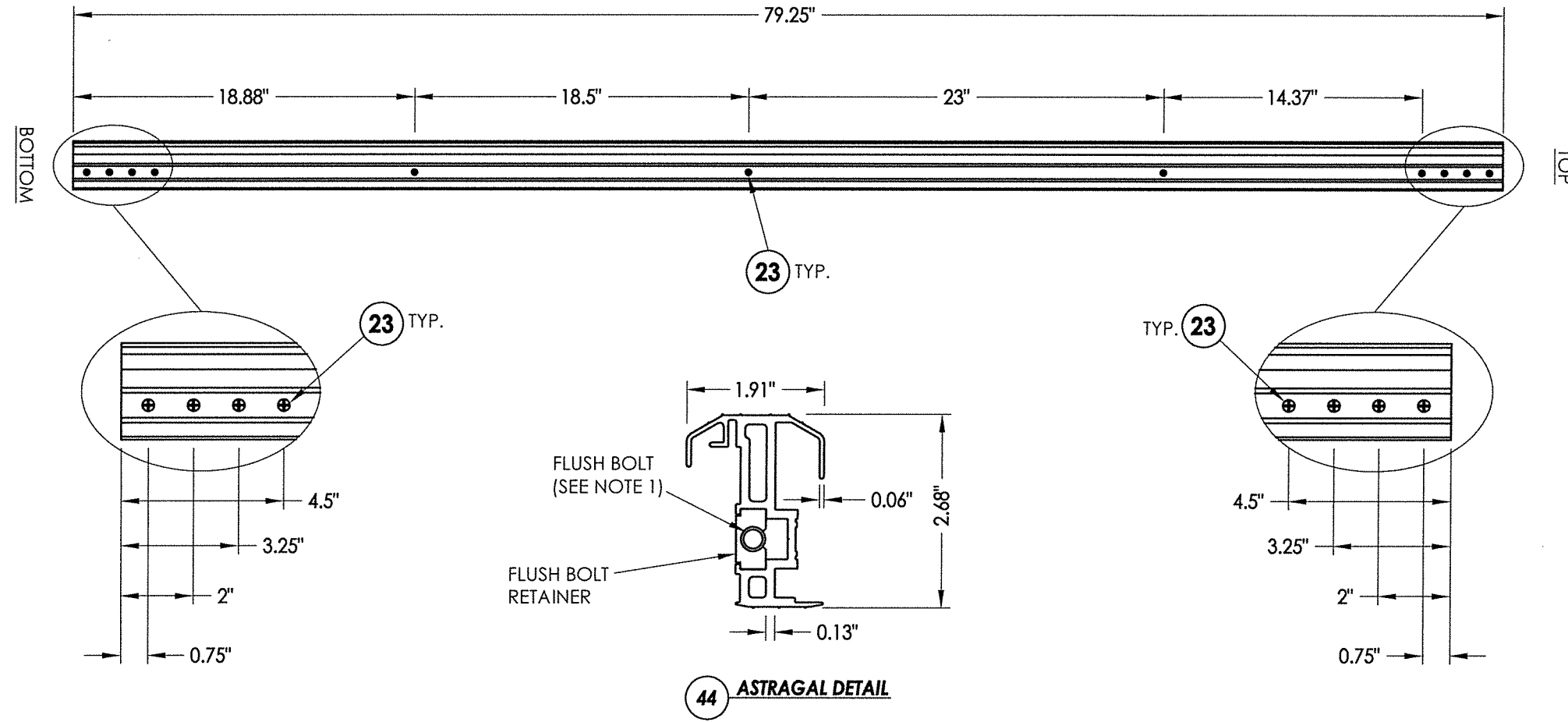
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

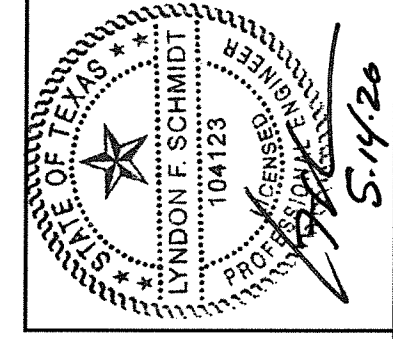
DRAWING NO.: TX-4263

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NOTE:

1. THE ASTRAGAL BOLT HAS A 3" THROW AT THE TOP AND AT THE BOTTOM.



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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	ASTRAGAL DETAILS

NO.	DATE	BY
3	5/14/20	LFS
2	9/05/18	LFS
1	7/22/15	LFS

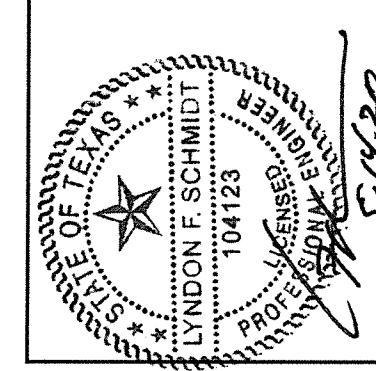
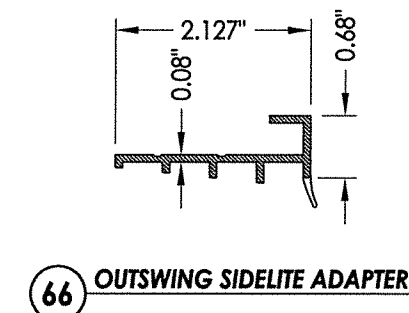
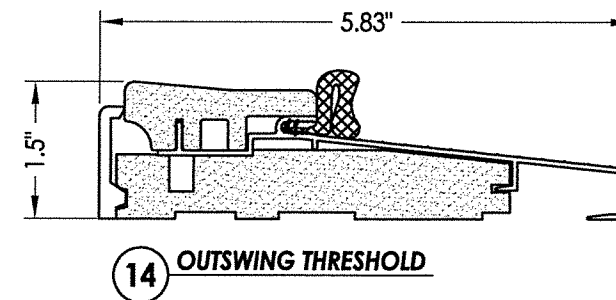
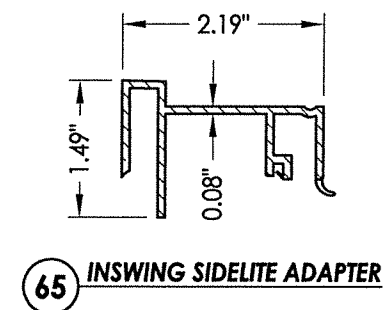
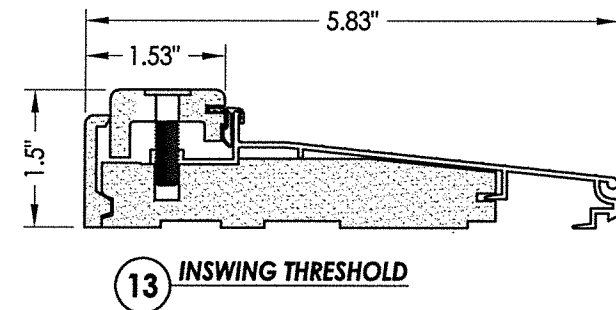
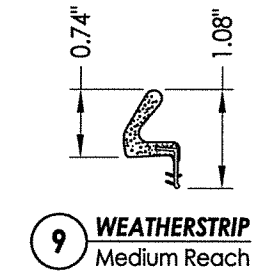
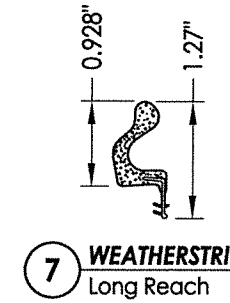
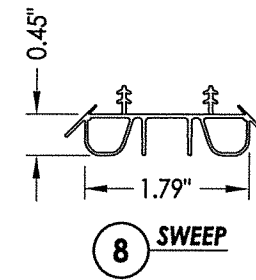
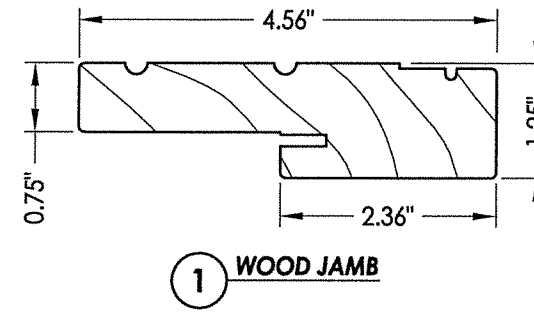
DATE:	10/08/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4263
SHEET	11 OF 12

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
J	#10 X 2-1/2" PFH WOOD SCREW (MIN. EMB. = 1.15" HEAD/JAMBS, 1-1/2" SILL)	STEEL
M	#10 X 2" PFH WOOD SCREW	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
1	JAMB - FINGER JOINTED PINE	WOOD
7	WEATHERSTRIP (Long Reach by Therma-Tru)	FOAM
8	SWEEP	VINYL
9	WEATHERSTRIP (Medium Reach by Therma-Tru)	FOAM
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
23	#10 X 1-1/2" PH SMS	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL
26	ASTRAGAL STRIKE PLATE	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL (SMOOTH STAR/FIBER CLASSIC)	-
41	DOOR PANEL (CLASSIC CRAFT)	-
44	HURRICANE ASTRAGAL	ALUM
50	SIDELITE PANEL (SMOOTH STAR/FIBER CLASSIC)	-
51	SIDELITE PANEL (CLASSIC CRAFT)	-
65	INSWING SIDELITE ADAPTER	PVC
66	OUTSWING SIDELITE ADAPTER	PVC

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"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



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PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS
3	5/14/20	UPDATE TO 2018 IBC/IRC CODE
2	9/05/18	REVISED LITE SCREW SPACING
1	7/22/15	ADDED GENERAL NOTE 5.

DATE: 10/08/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4263

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