

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

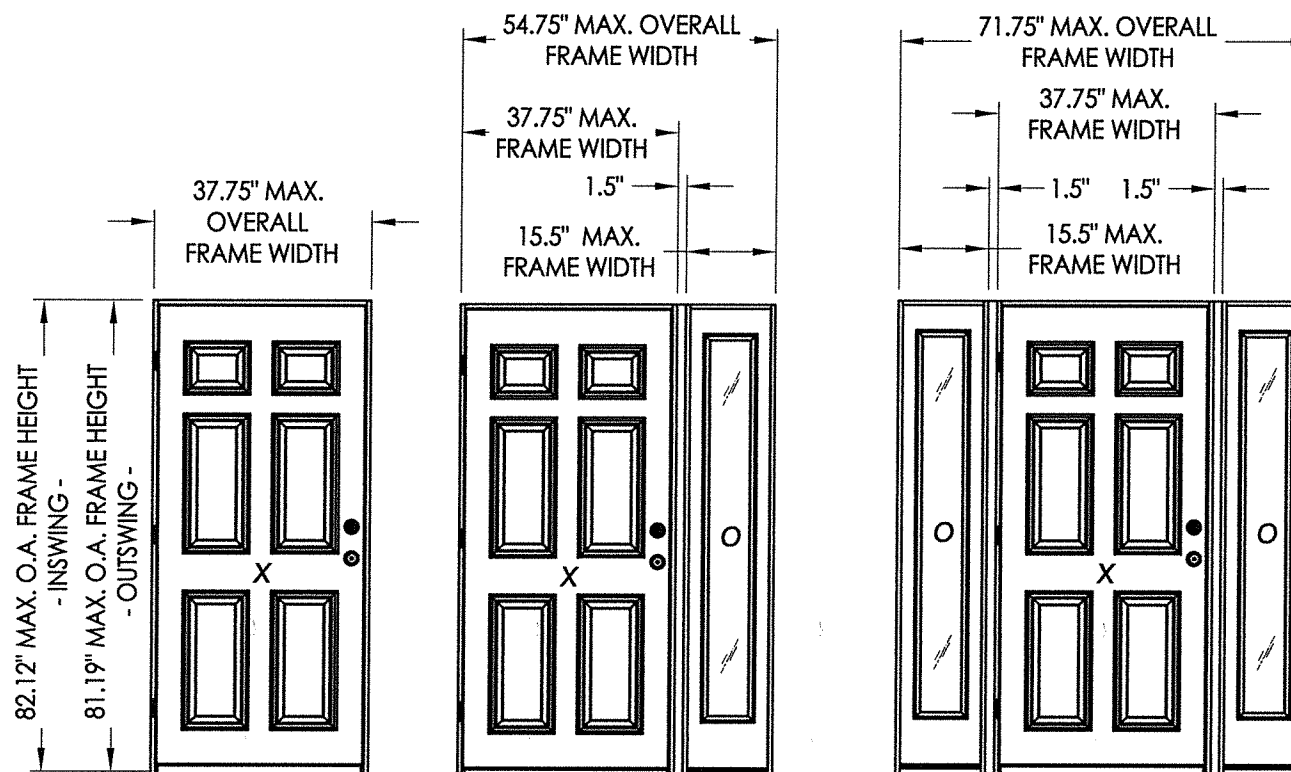
Opaque Fiberglass Single Door w/ or w/o Sidelites

INSWING / OUTSWING
"Non-Impact"

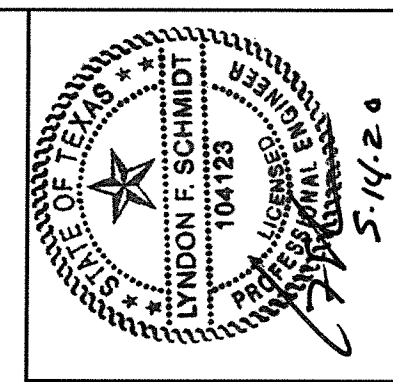
EVALUATED FOR USE IN THE STATE OF TEXAS

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.



CONFIGURATION	MAX. FRAME DIMENSION	SWING	DESIGN PRESSURE (PSF) SMOOTH STAR / FIBER CLASSIC		DESIGN PRESSURE (PSF) CLASSIC CRAFT	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.75" x 82.12"	INSWING	+65.0	-70.0	+65.0	-70.0
	37.75" x 81.19"	OUTSWING	+65.0	-65.0	+65.0	-65.0
OX or XO	54.75" x 82.12"	INSWING	+65.0	-70.0	+65.0	-70.0
	54.75" x 81.19"	OUTSWING	+65.0	-65.0	+65.0	-65.0
OXO	71.75" x 82.12"	INSWING	+65.0	-70.0	+65.0	-70.0
	71.75" x 81.19"	OUTSWING	+65.0	-65.0	+65.0	-65.0



Documents Prepared By: Lyndon F. Schmidt, P.E.
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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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
2	5/14/20	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	ADDED GENERAL NOTE 5.

DATE: 10/08/12

SCALE: N.T.S.

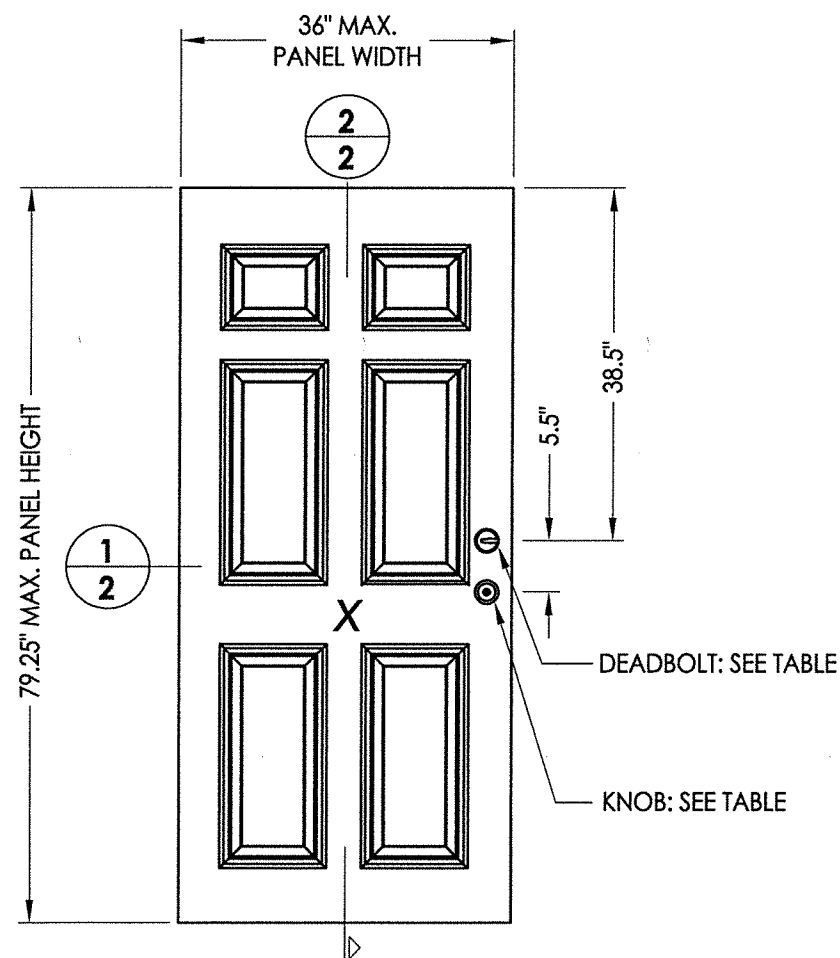
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4258

SHEET 1 OF 12

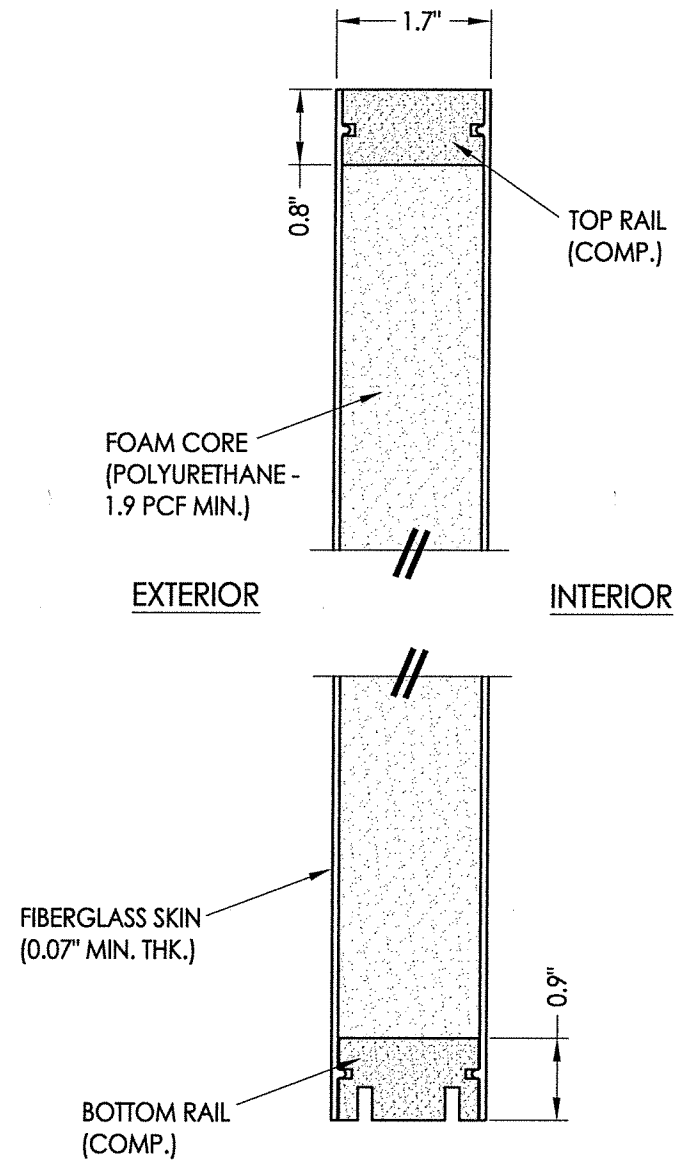
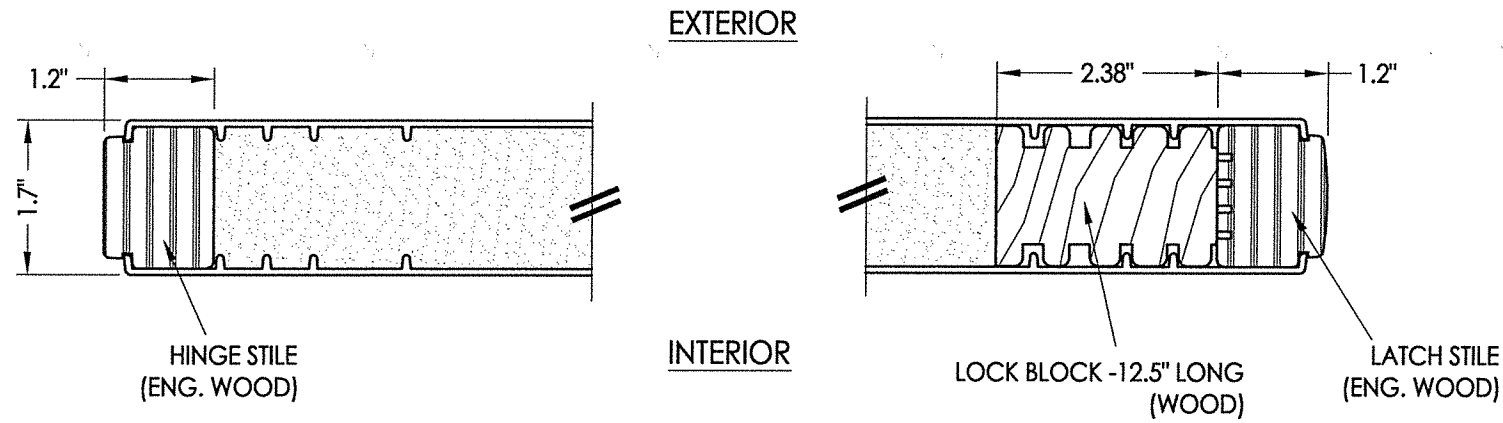
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details (Smooth Star/Fiber Classic)
3	Door panel details (Classic Craft)
4	Sidelite panel & glazing detail (Smooth Star/Fiber Classic)
5	Sidelite panel & glazing detail (Classic Craft)
6	Elevations
7	Horizontal cross sections
8	Vertical cross sections
9	Vertical cross sections
10	Frame anchoring
11	Frame anchoring
12	Bill of materials and components



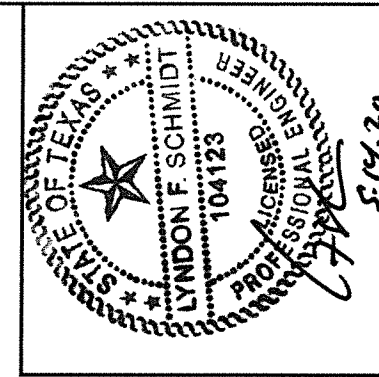
40 DOOR PANEL
Smooth Star/Fiber Classic

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

1 HORIZONTAL CROSS SECTION



2 VERTICAL CROSS SECTION



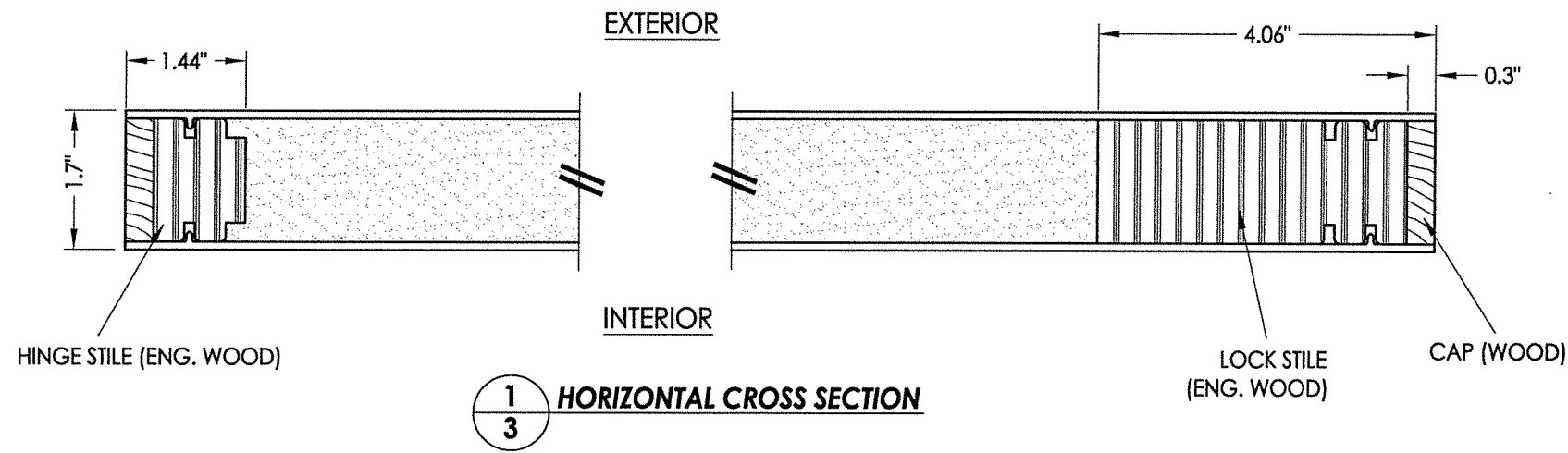
Documents Prepared By: Lyndon F. Schmidt, P.E.
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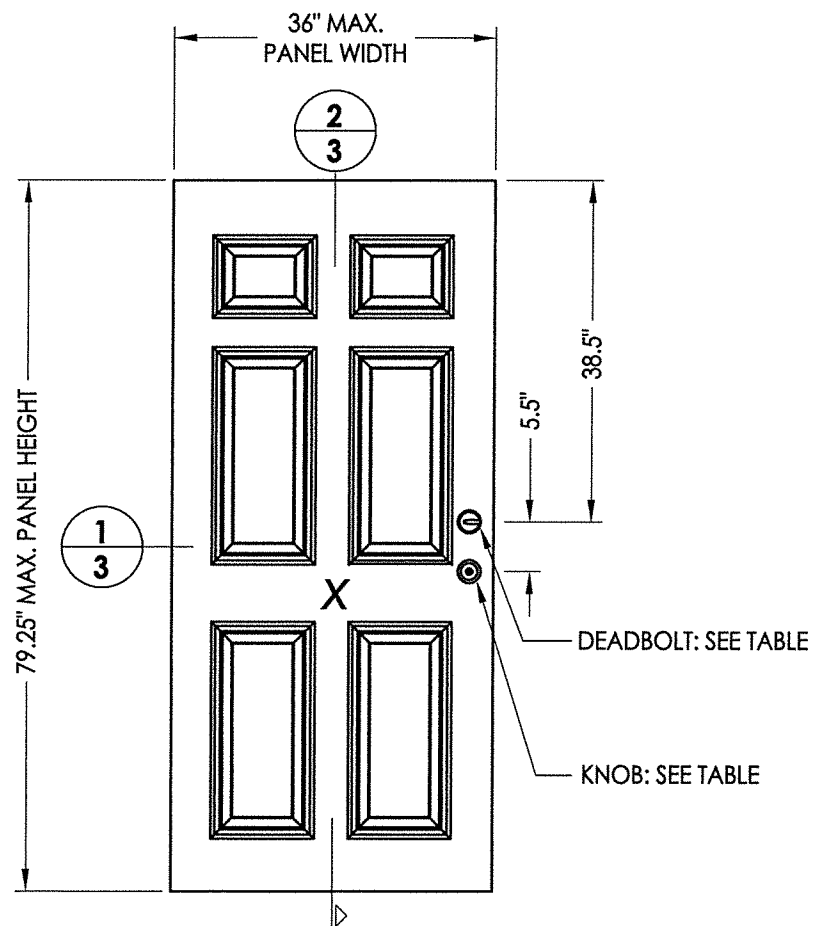
PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
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-4258
SHEET 2 OF 12

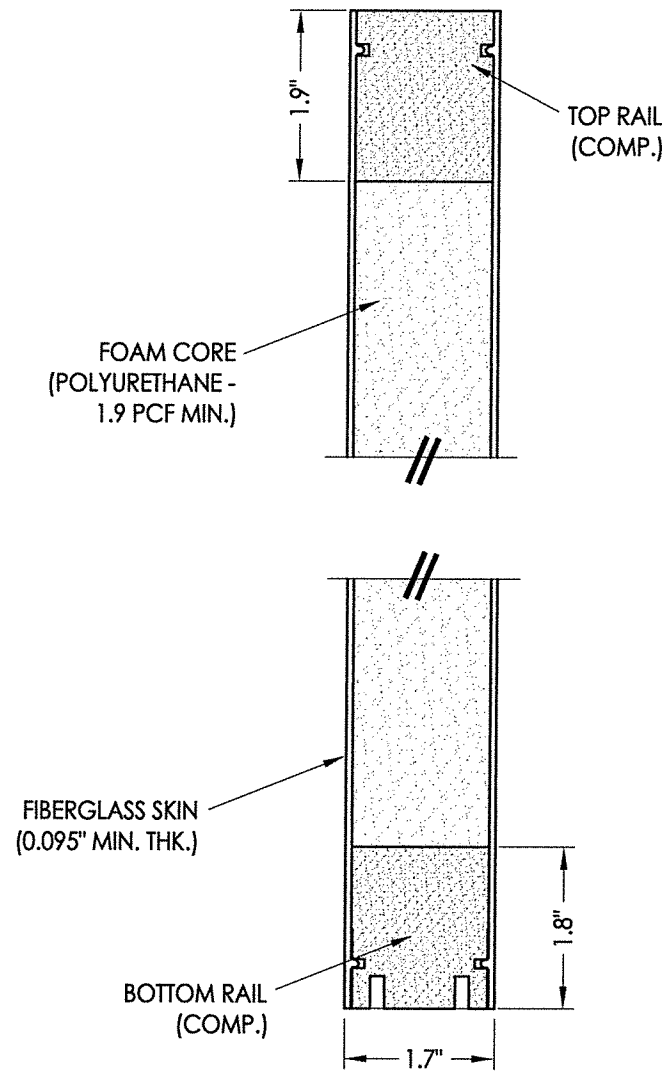


1
3 **HORIZONTAL CROSS SECTION**

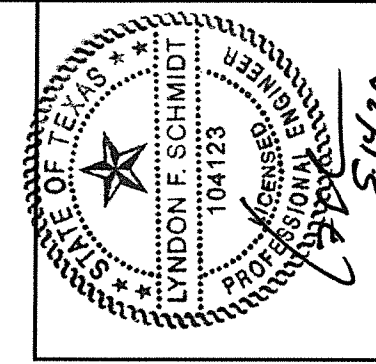


41 **DOOR PANEL**
Classic Craft

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



2
3 **VERTICAL CROSS SECTION**



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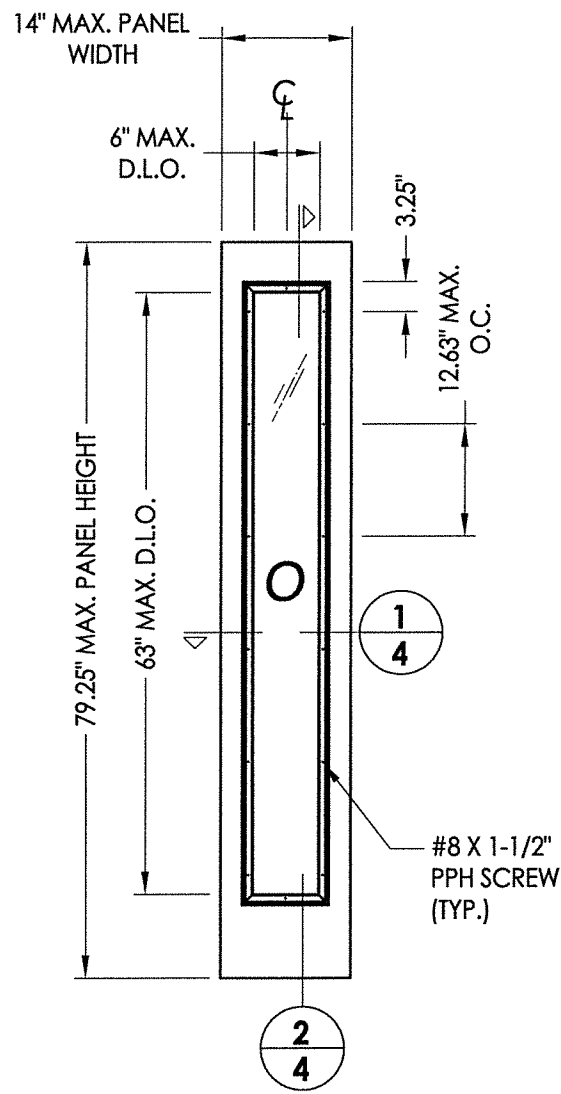
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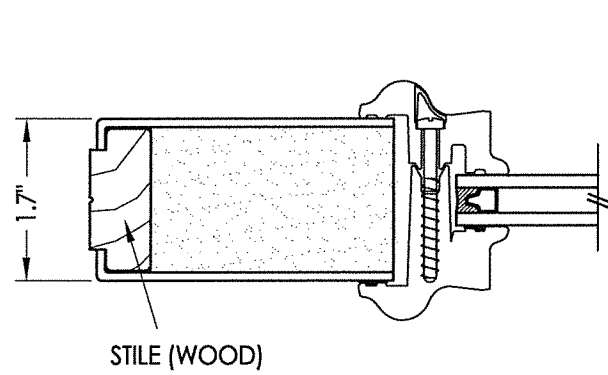
PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
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-4258
SHEET 3 of 12



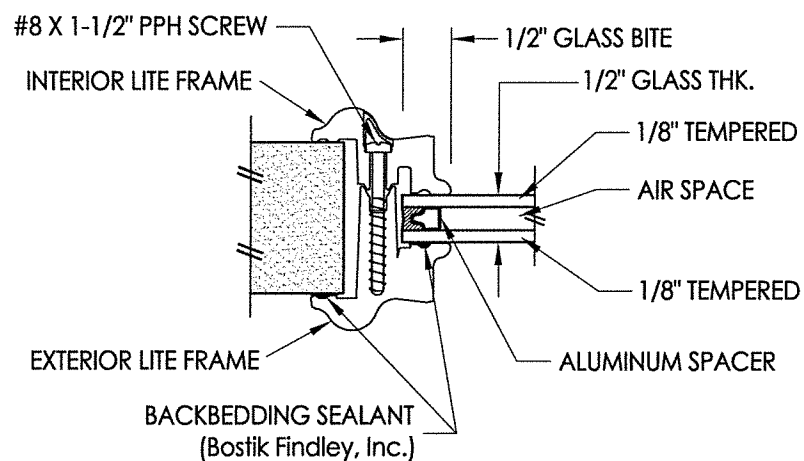
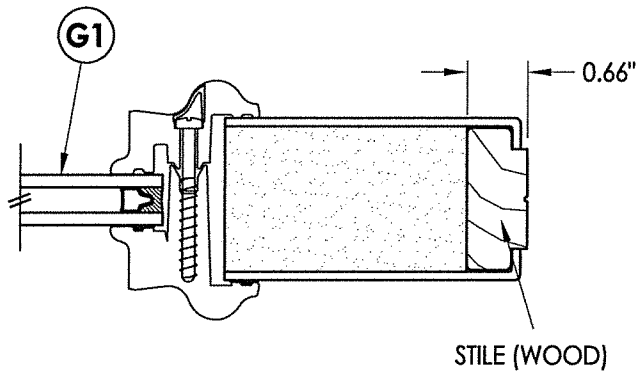
50 SIDELITE PANEL
Smooth Star/Fiber Classic



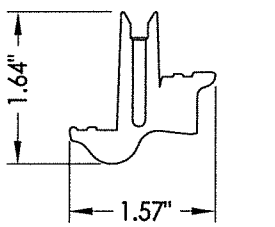
INTERIOR

EXTERIOR

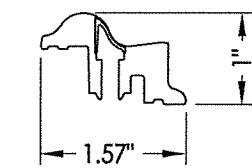
1 HORIZONTAL CROSS SECTION



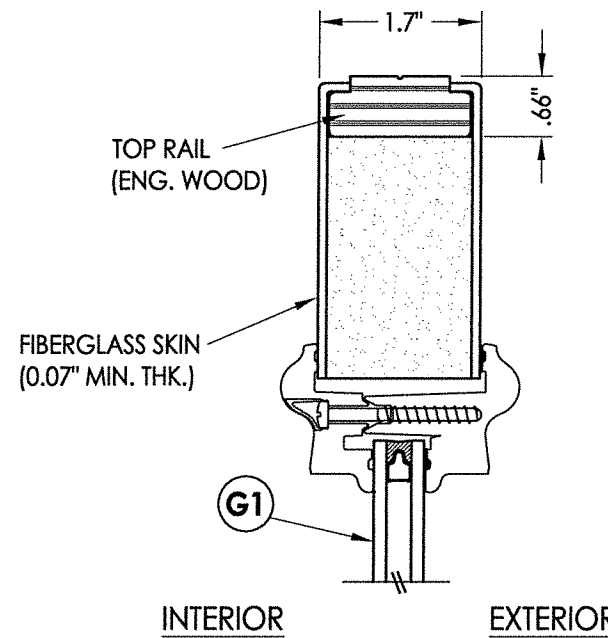
G1 GLAZING DETAIL
BTS Lip Lite Frame



EXTERIOR LITE FRAME
BTS



INTERIOR LITE FRAME
BTS



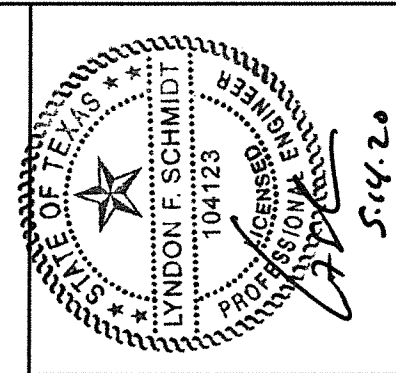
INTERIOR

EXTERIOR

2 VERTICAL CROSS SECTION

FOAM CORE
(POLYURETHANE -
1.9 PCF MIN.)

BOTTOM RAIL
(ENG. WOOD)



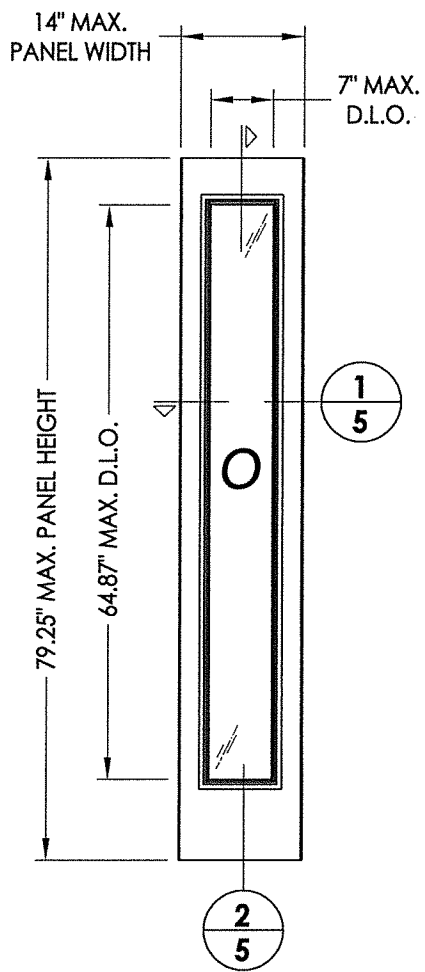
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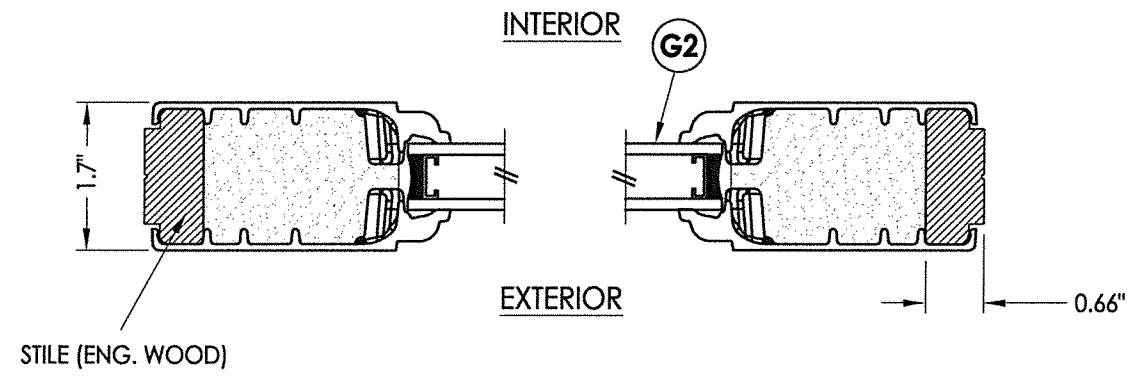
PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
SIDELITE PANEL & GLAZING DETAIL
(SMOOTH STAR/FIBER CLASSIC)

NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	LFS	ADDED GENERAL NOTE 5.

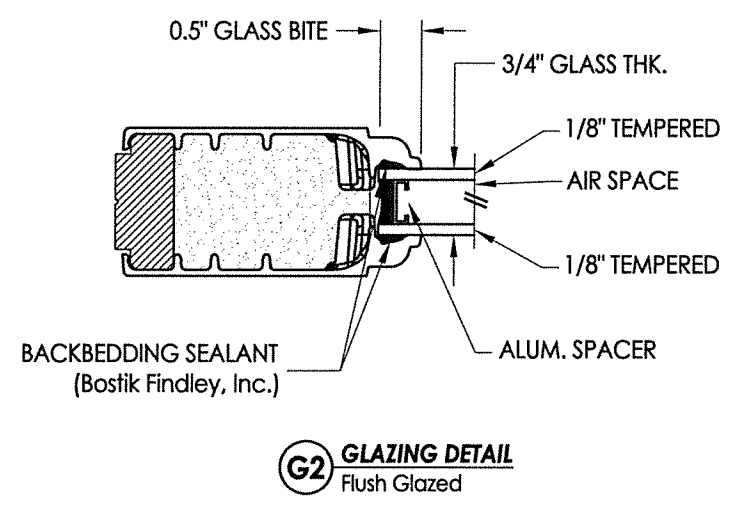
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4258
SHEET 4 OF 12



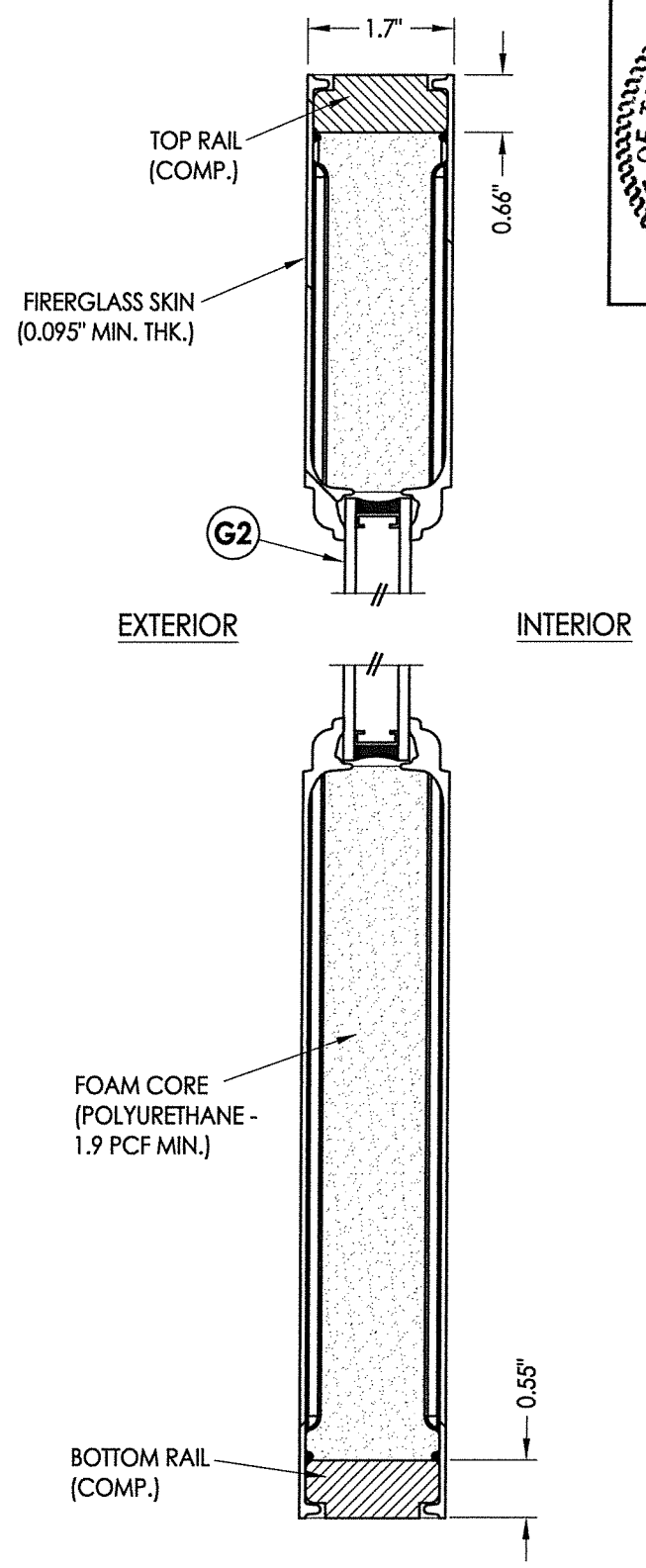
51 SIDELITE PANEL
Classic Craft



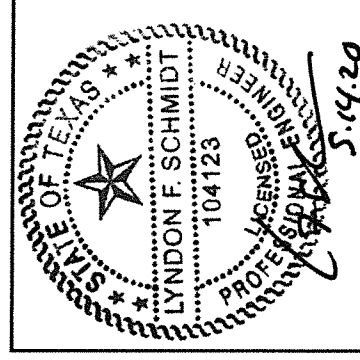
1 HORIZONTAL CROSS SECTION
5



G2 GLAZING DETAIL
Flush Glazed



2 VERTICAL CROSS SECTION
5



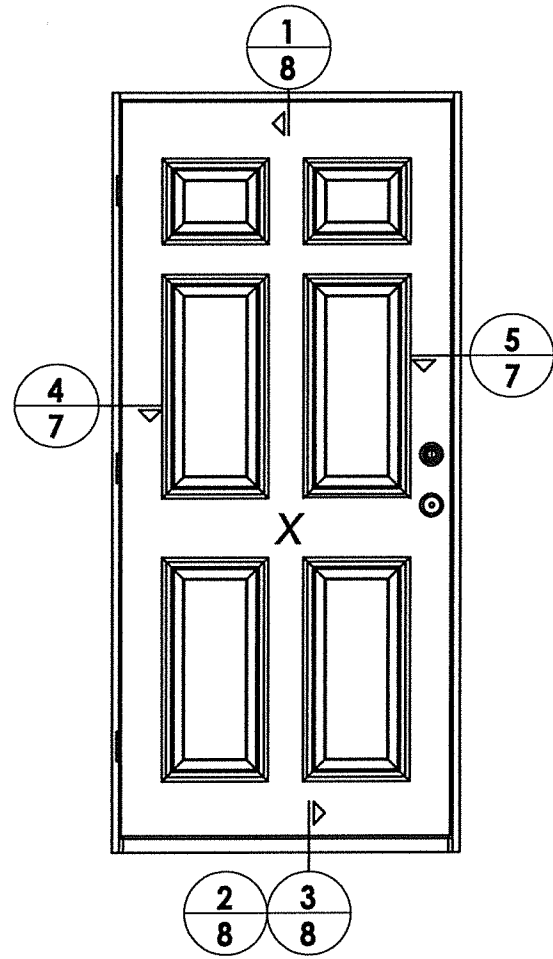
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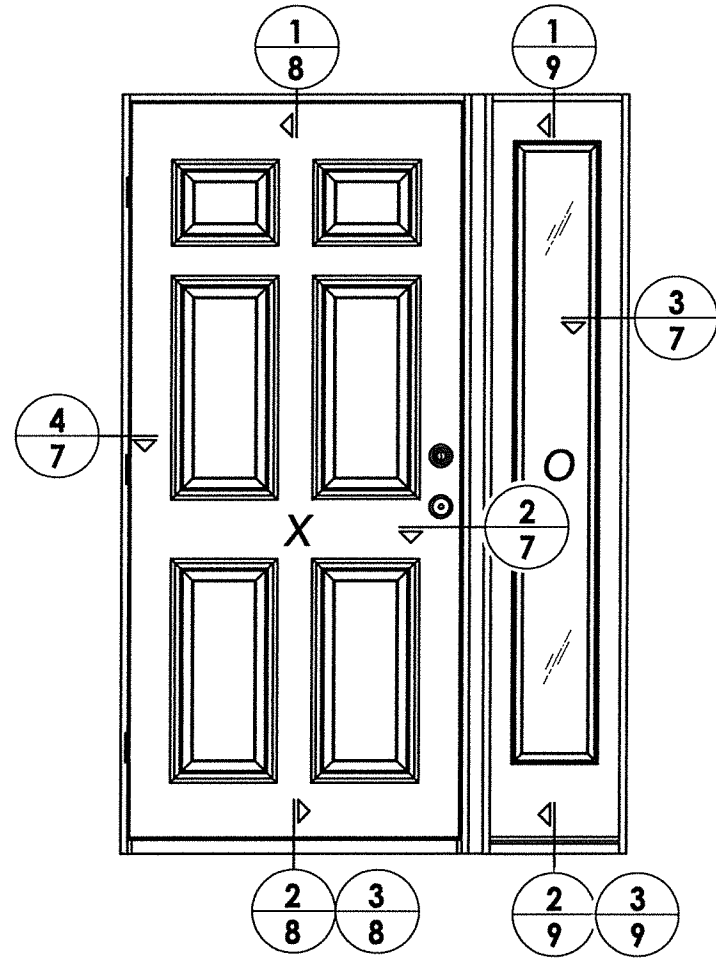
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL & GLAZING DETAIL (CLASSIC CRAFT)	
NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	LFS	ADDED GENERAL NOTE 5.

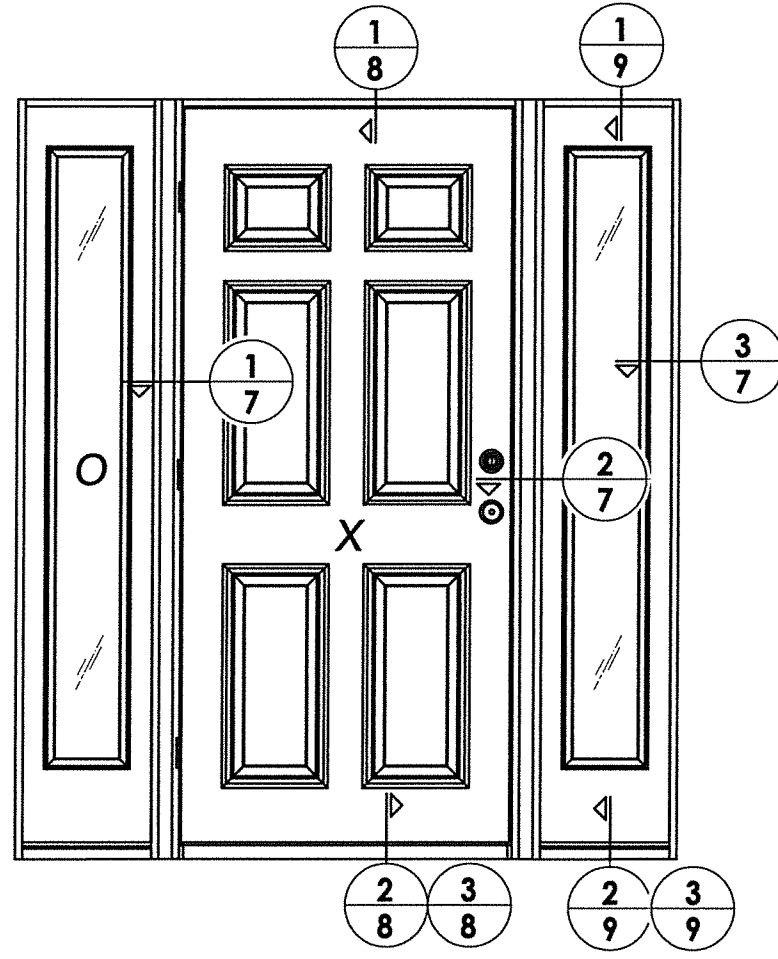
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4258
SHEET 5 of 12



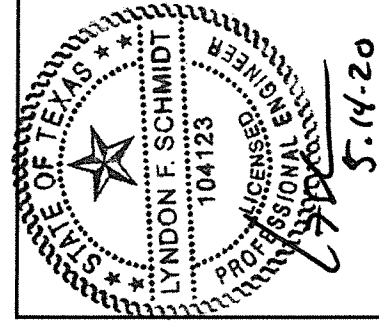
ELEVATION (X)



ELEVATION (OX / XO)



ELEVATION (OXO)



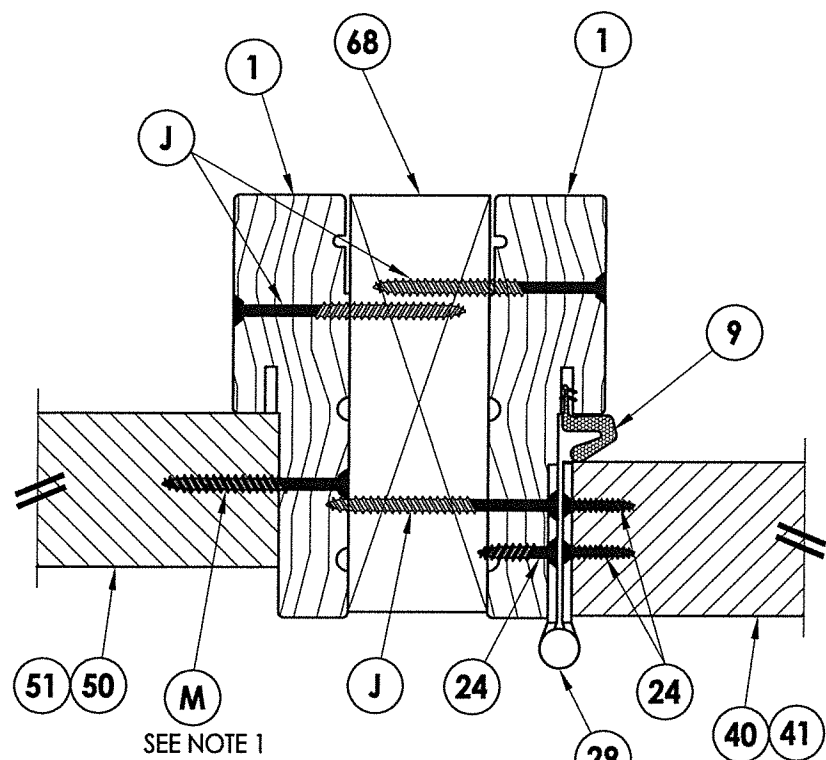
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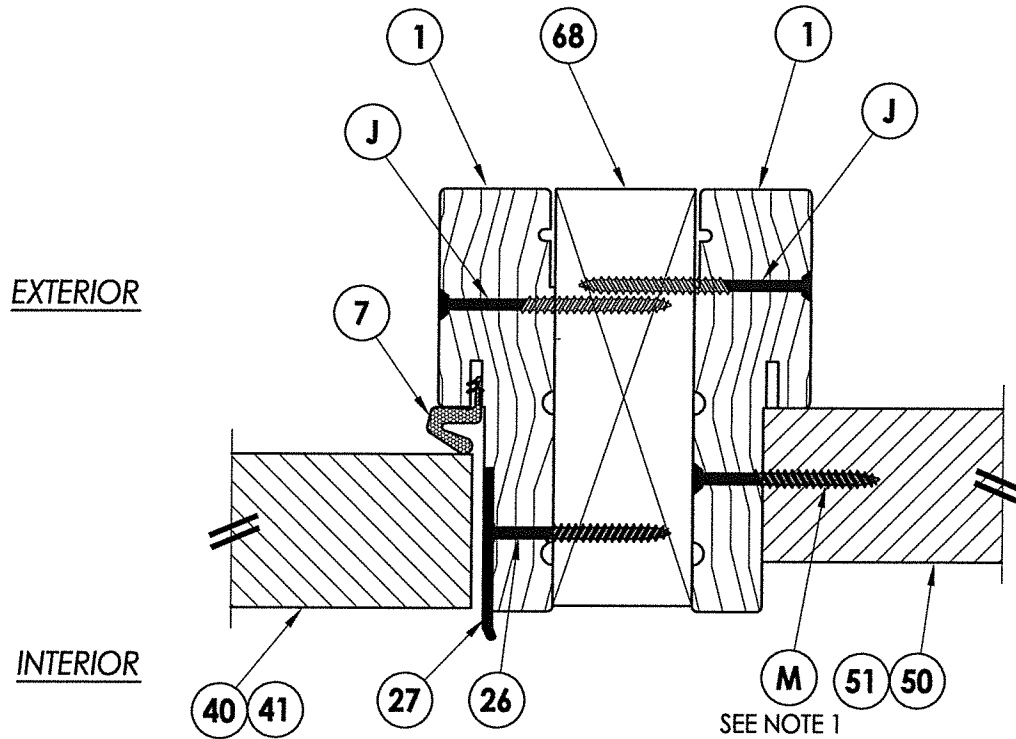
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FIBERGLASS DOOR
PART OR ASSEMBLY:
ELEVATIONS

NO.	DATE	REVISIONS
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1	7/22/15	ADDED GENERAL NOTE 5.
		LFS
		LFS
		BY

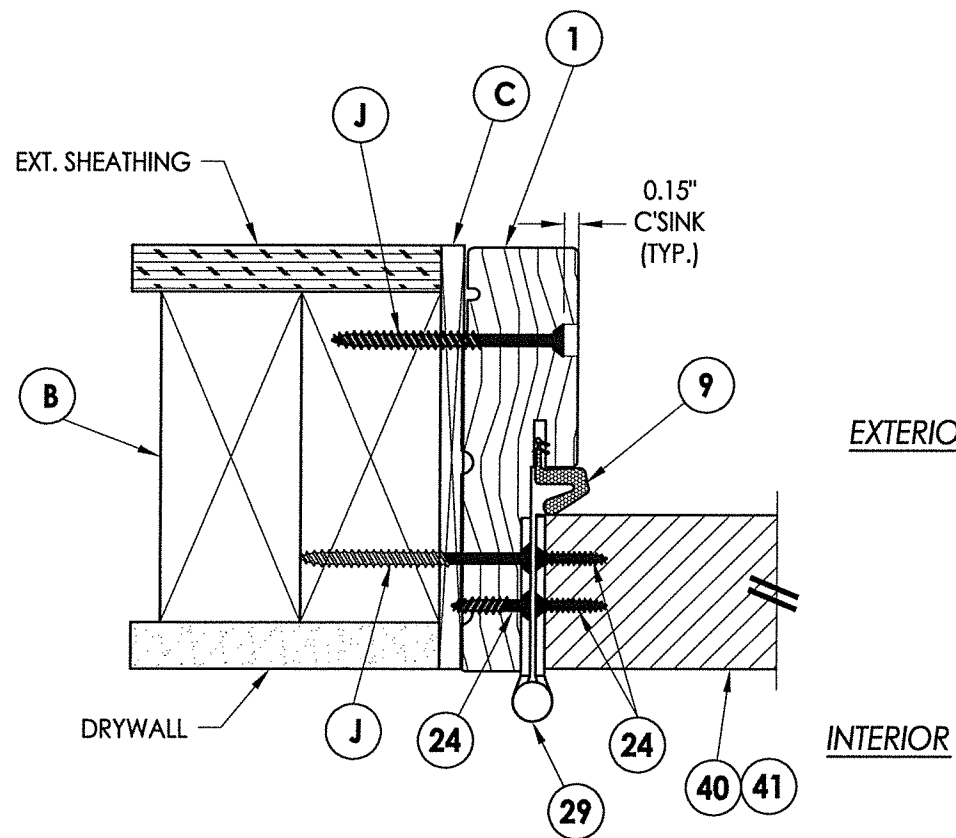
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4258
SHEET 6 OF 12



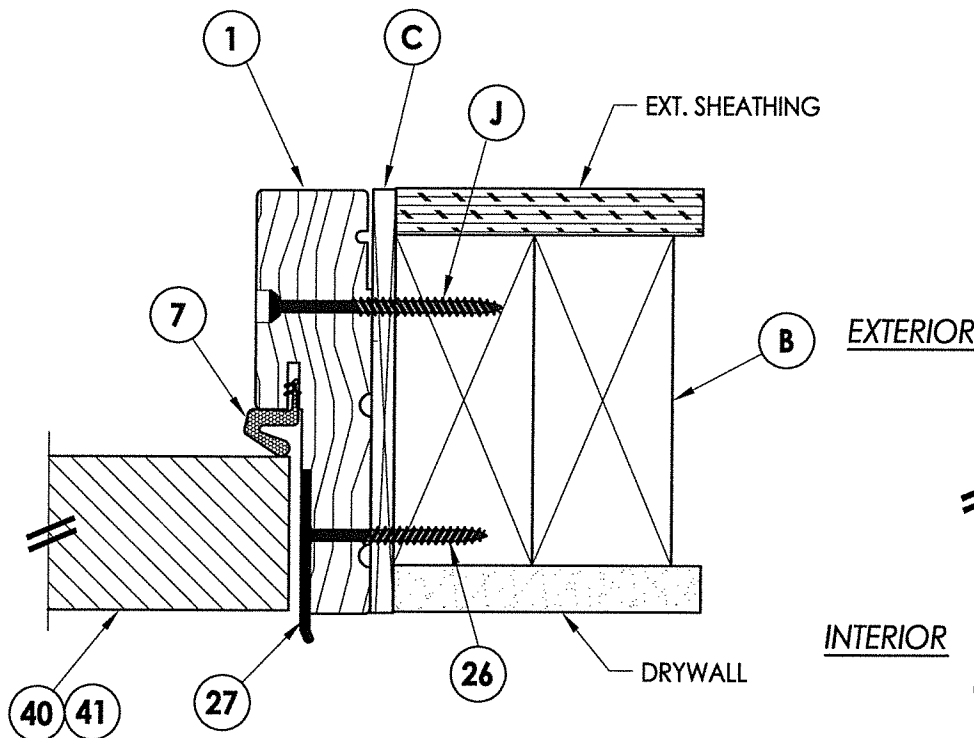
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7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



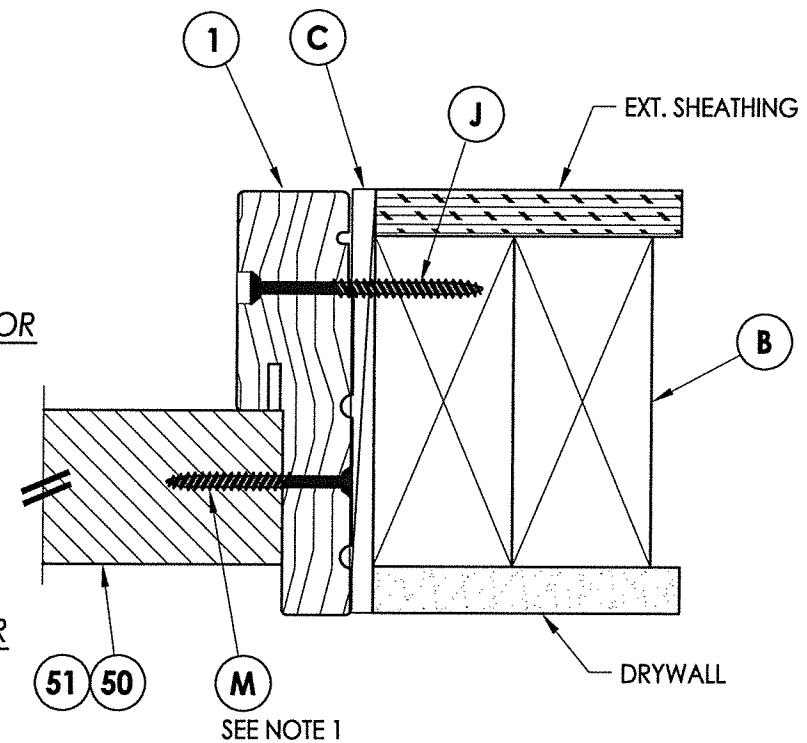
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7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



4
7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved

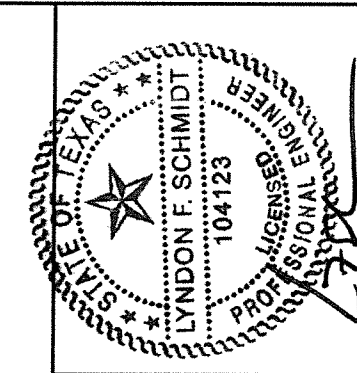


5
7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



3
7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved

Note:
1. Sidelite assembly screws located 11-1/2" from each end plus 1 more at the center of jamb (3 total).

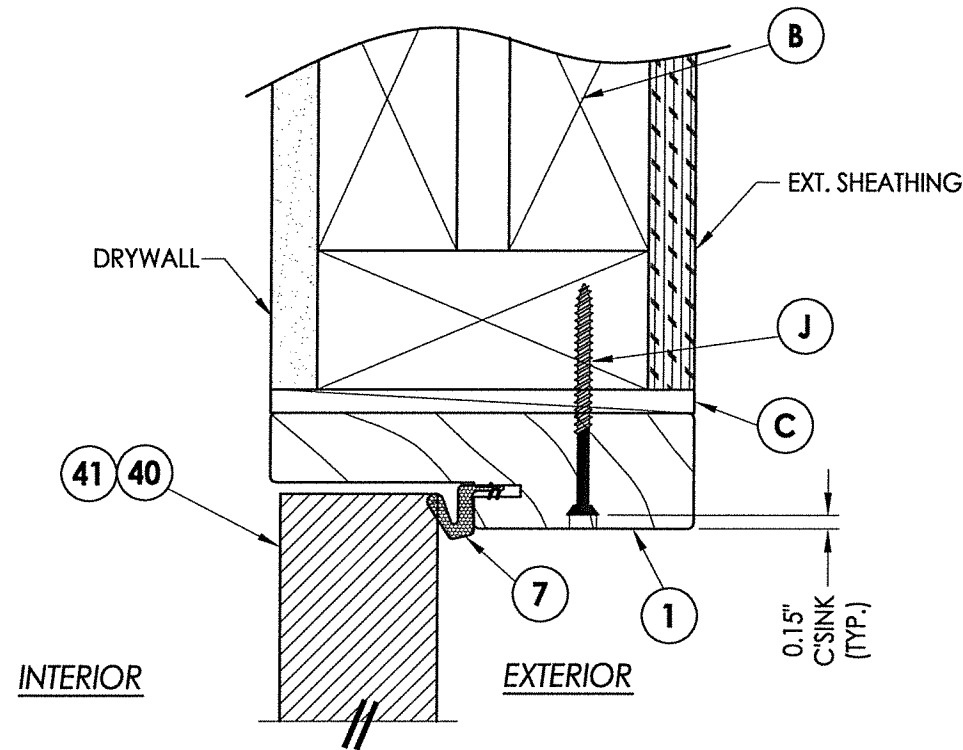


S-14.20

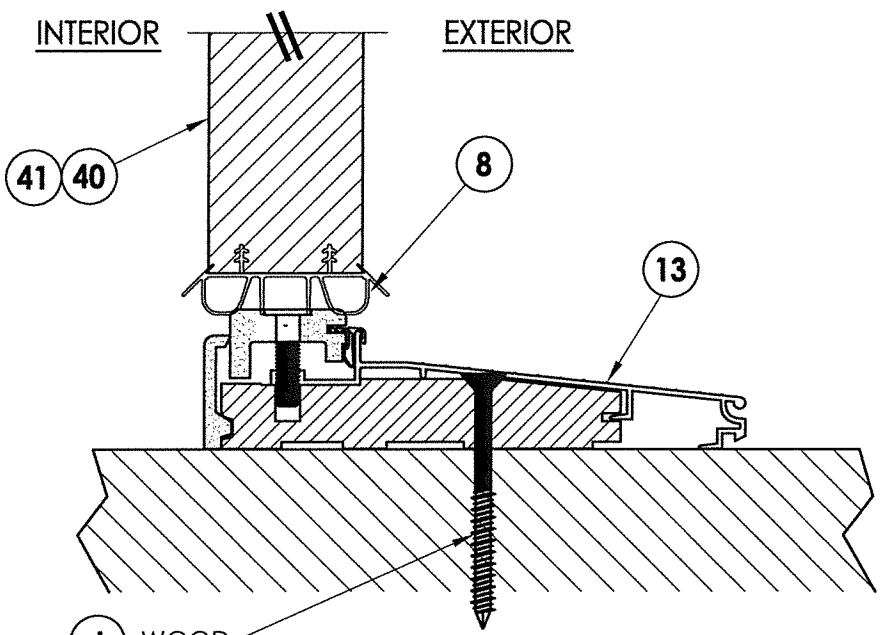
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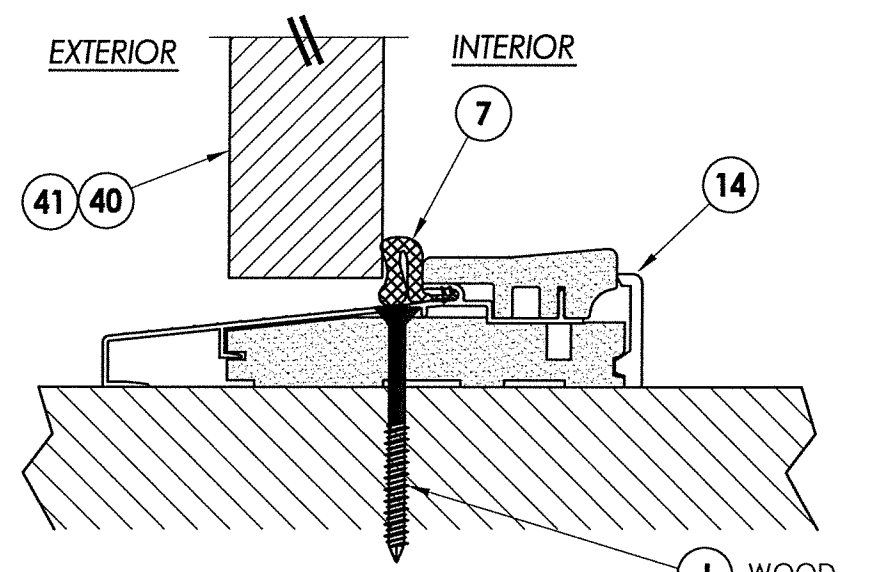
PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	LFS	ADDED GENERAL NOTE 5.
DATE: 10/08/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4258			
SHEET 7 OF 12			



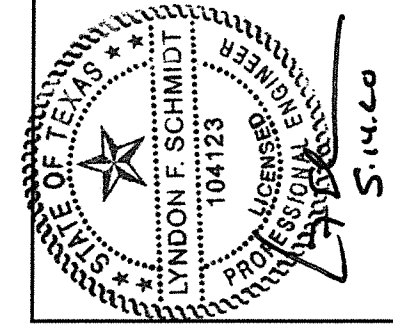
1 VERTICAL CROSS SECTION
8 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
8 Inswing configuration



3 VERTICAL CROSS SECTION
8 Outswing configuration



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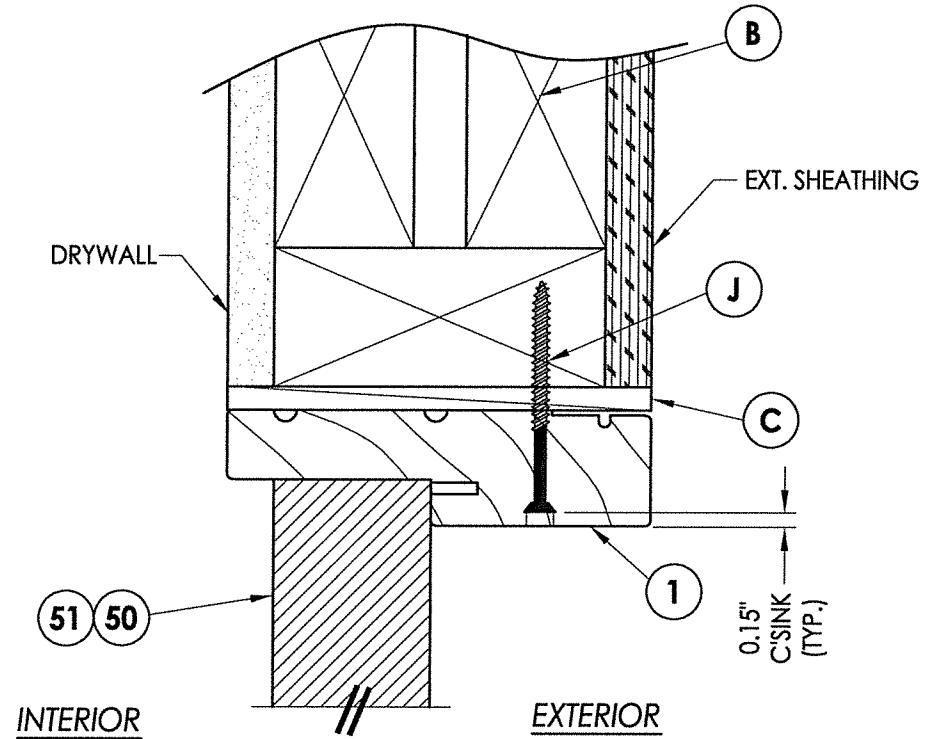
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 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

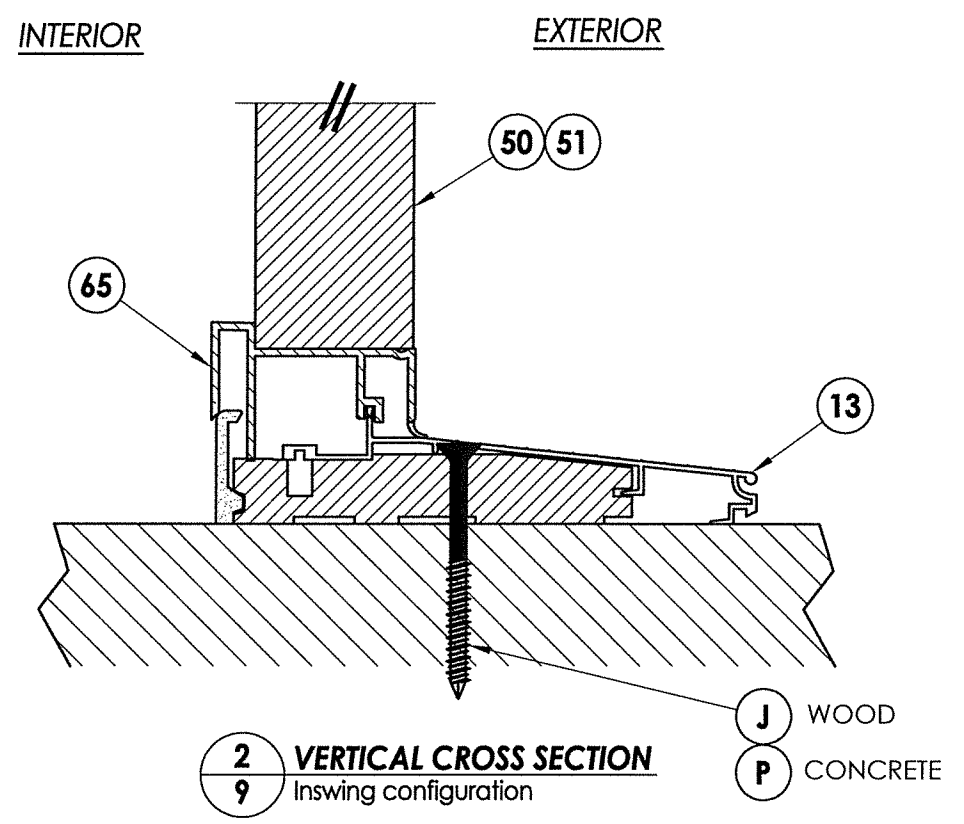
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
1	7/22/15	LFS	ADDED GENERAL NOTE 5.

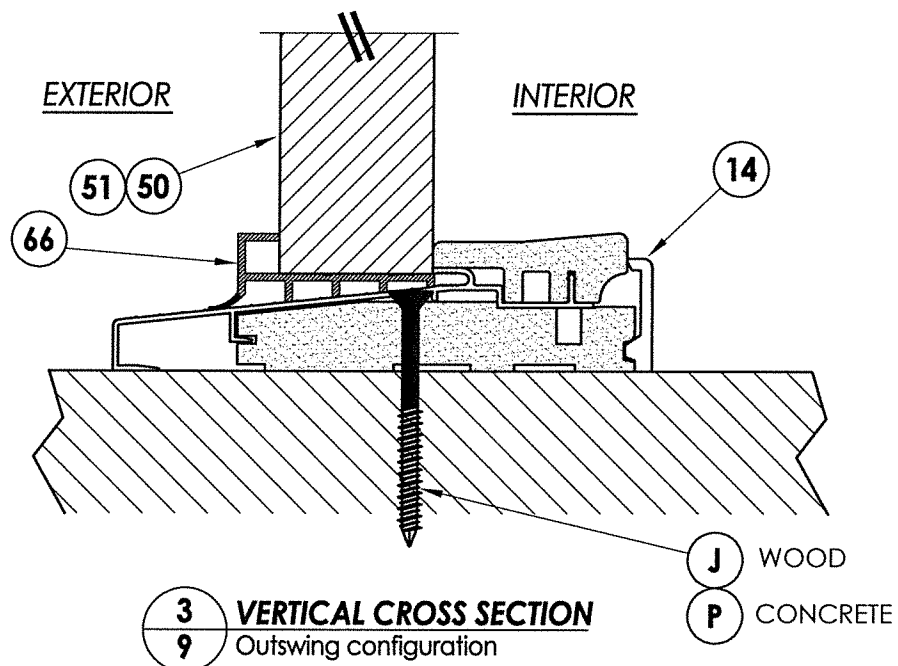
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 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4258
 SHEET 8 OF 12



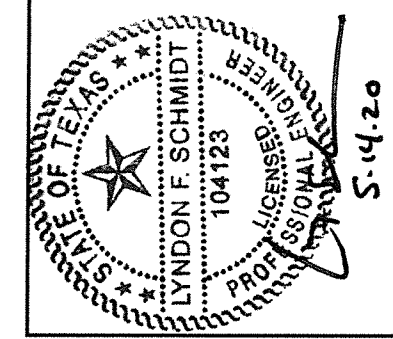
1 VERTICAL CROSS SECTION
9 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
9 Inswing configuration



3 VERTICAL CROSS SECTION
9 Outswing configuration



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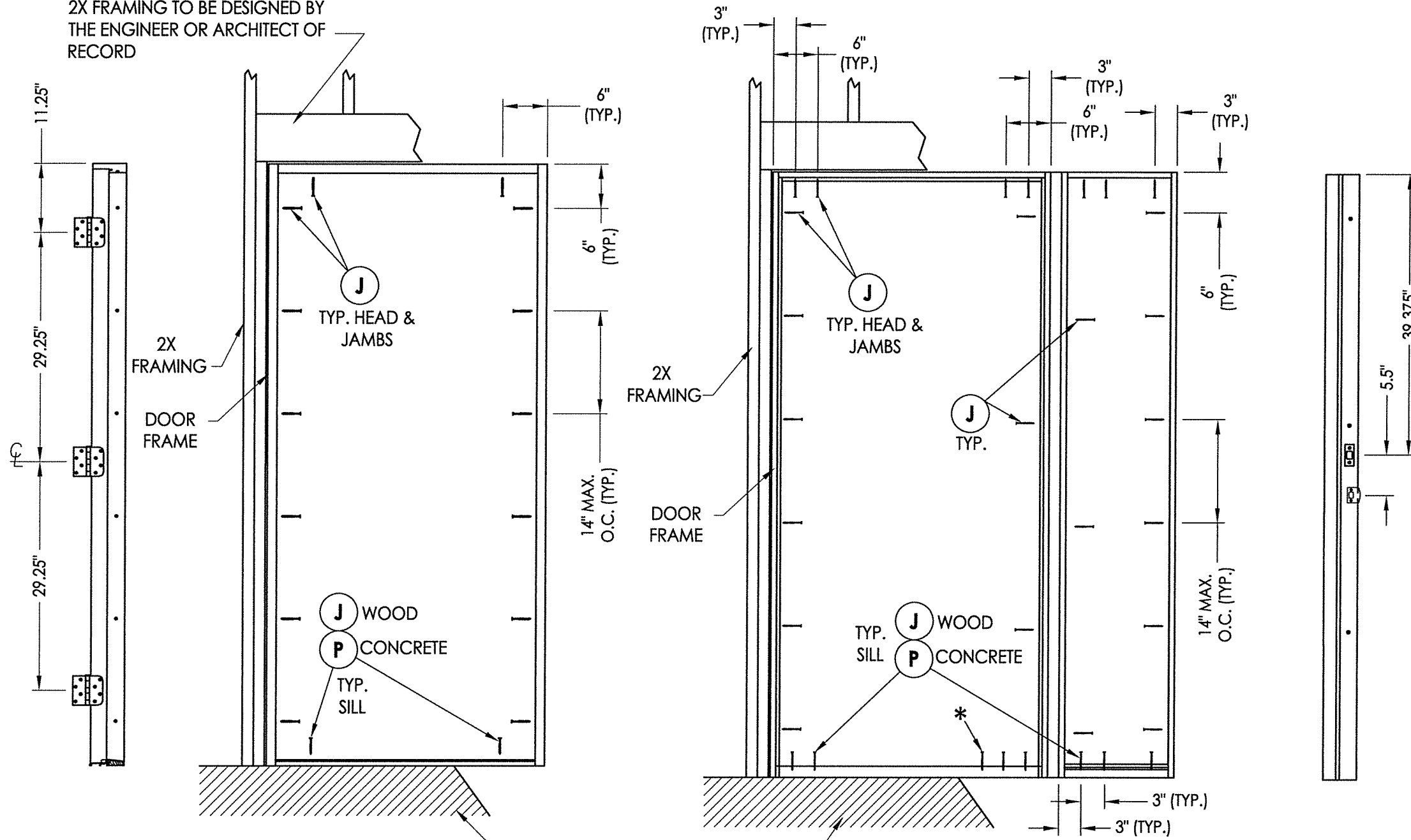
PRODUCT: THERMA-TRU FIBERGLASS DOOR
 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
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-4258
 SHEET 9 OF 12

R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 600 - 68 - 80 Opaque FG NonImp IS - OS Sgls Dbis w SLC - Drawings\TX-4258-59.dwg, 10

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD



HINGE JAMB

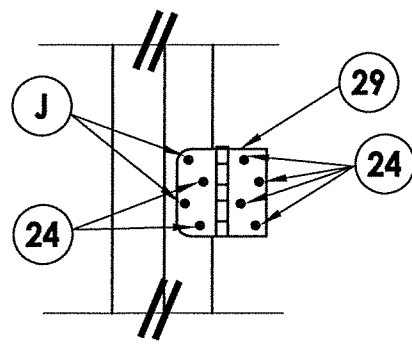
FRAME ANCHORING
X

FRAME ANCHORING
OX / XO

STRIKE JAMB

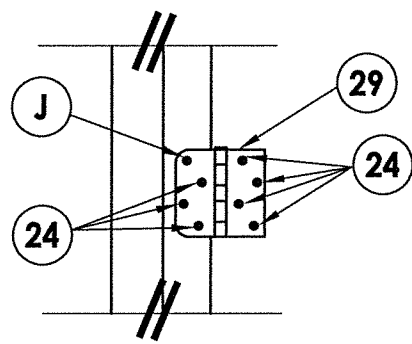
FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

*This anchor required for D.P > 60 psf.



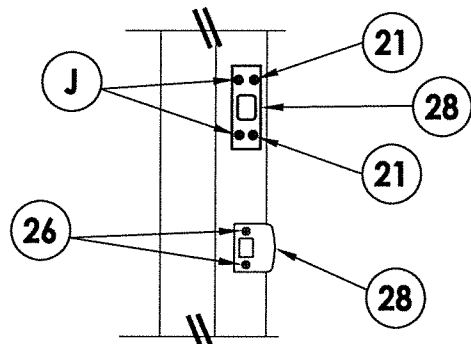
HINGE DETAIL

Inswing



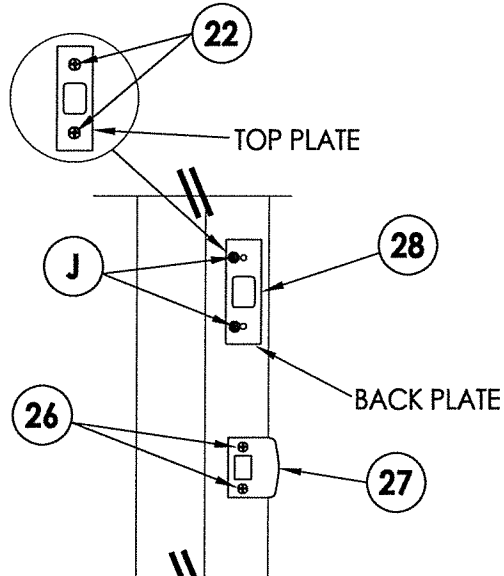
HINGE DETAIL

Outswing



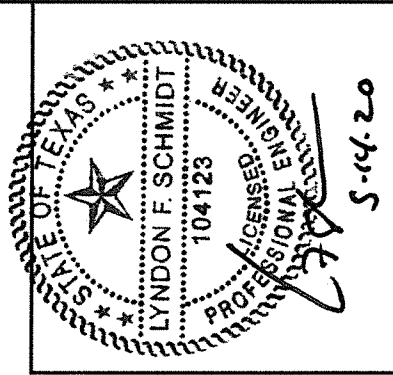
LATCH & DEADBOLT STRIKE DETAIL

Kwikset Hardware - Standard Strike



LATCH & DEADBOLT STRIKE DETAIL

Schlage Hardware - Standard Strike



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

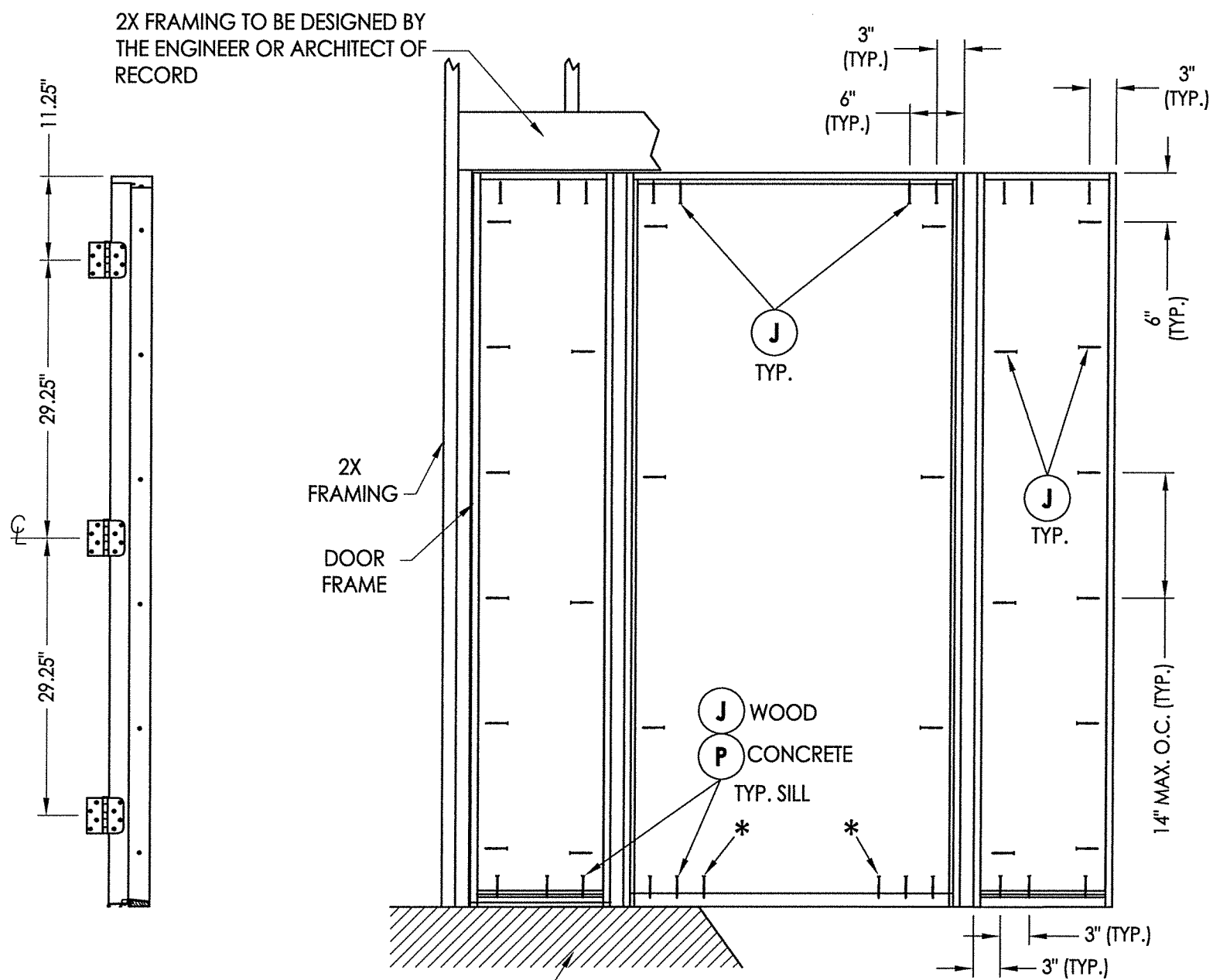
PRODUCT:	Therma-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	FRAME ANCHORING

NO.	DATE	BY	REVISIONS
2	5/14/20	LFS	UPDATE TO 2018 IBC/IRC CODE
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-4258
SHEET	10 OF 12

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R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 600 - 68 - 80 Opaque FG NonImp IS - OS Sgls Dbls w SL\C - Drawings\TX-4258-59.dwg, 11

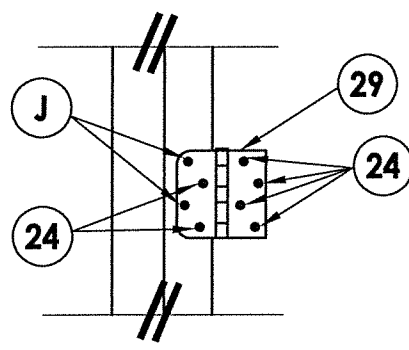


HINGE JAMB

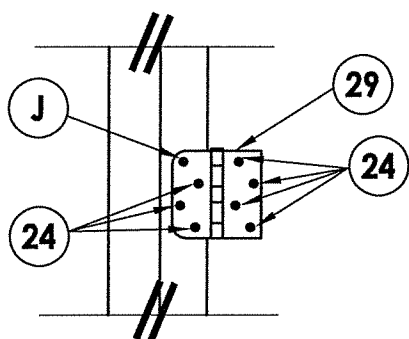
FLOOR SUBSTRATE MATERIAL
 CONCRETE (MIN. 3000 PSI)
 WOOD (S.G. >= 0.42)

FRAME ANCHORING
 OXO

*This anchor required for D.P > 60 psf.

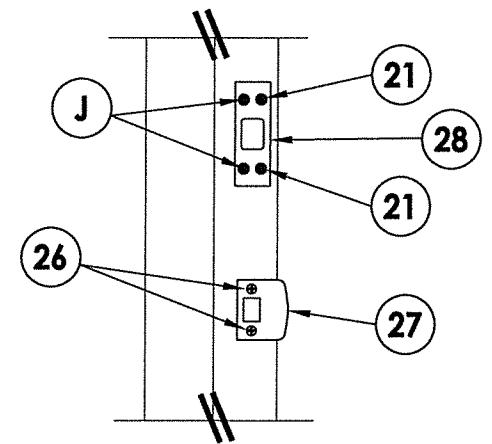


HINGE DETAIL
 Inswing

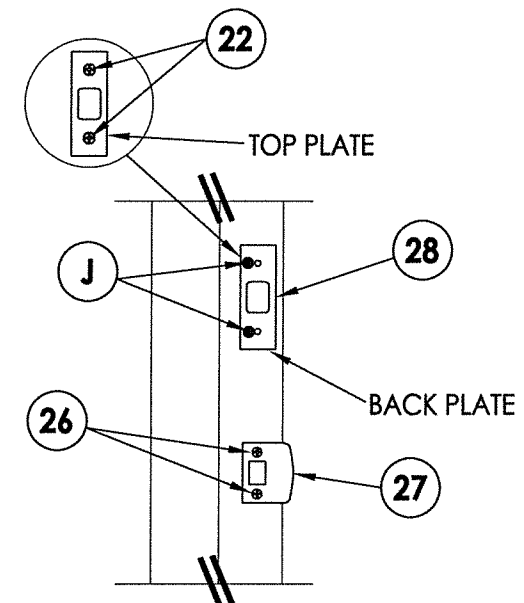


HINGE DETAIL
 Outswing

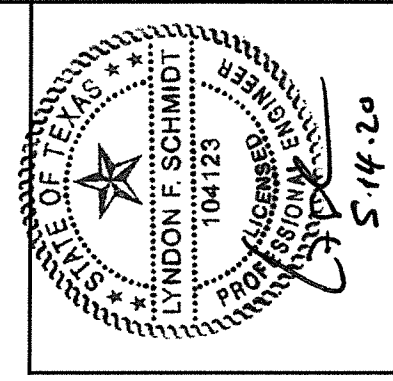
STRIKE JAMB



LATCH & DEADBOLT STRIKE DETAIL
 Kwikset Hardware - Standard Strike



LATCH & DEADBOLT STRIKE DETAIL
 Schlage Hardware - Standard Strike



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

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

PRODUCT:	THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	FRAME ANCHORING

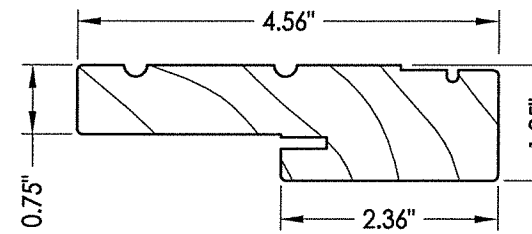
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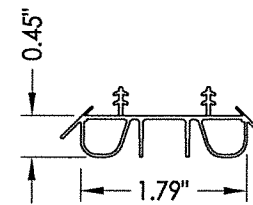
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BILL OF MATERIALS

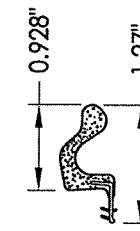
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
J	#10 X 2-1/2" PFH WOOD SCREW (MIN. EMB. = 1.15" HEAD/JAMBS, 1-1/2" SILL)	STEEL
M	#10 X 2" PFH WOOD SCREW	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
1	JAMB - FINGER JOINTED PINE	WOOD
7	WEATHERSTRIP (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
21	#8 X 5/8" PFH WOOD SCREW	STEEL
22	10-32 X 3/8" PFH MACHINE SCREW	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL
26	#8 x 2" PFH WOOD SCREW	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)	-
50	SIDELITE PANEL (SMOOTH STAR/FIBER CLASSIC)	-
51	SIDELITE PANEL (CLASSIC CRAFT)	-
65	INSWING SIDELITE ADAPTER	PVC
66	OUTSWING SIDELITE ADAPTER	PVC
68	2X MULLION (G >= 0.55)	WOOD



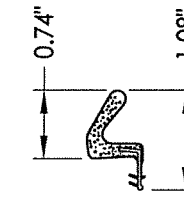
1 WOOD JAMB



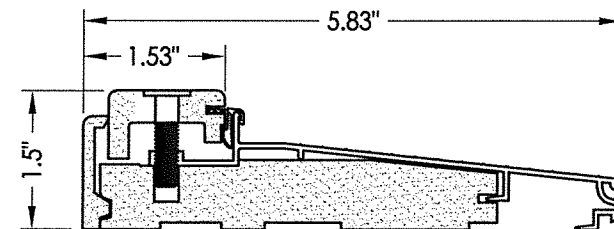
8 SWEEP



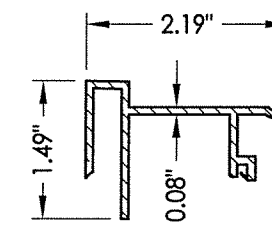
7 WEATHERSTRIP Long Reach



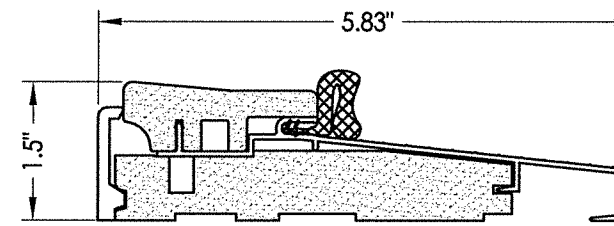
9 WEATHERSTRIP Medium Reach



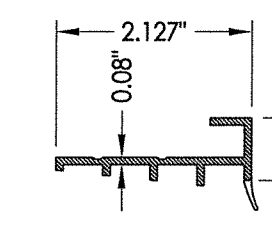
13 INSWING THRESHOLD



65 INSWING SIDELITE ADAPTER



14 OUTSWING THRESHOLD

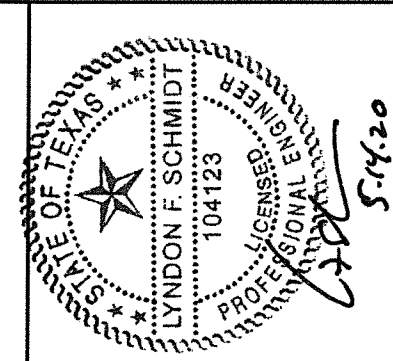


66 OUTSWING SIDELITE ADAPTER

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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TEXAS P.E. #104123

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CERTIFICATE OF REGISTRATION # F-11852

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

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SHEET 12 OF 12