

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

Glazed Fiberglass Single Door w/ or w/o Sidelites

IN SWING / OUT SWING
"Non-Impact"

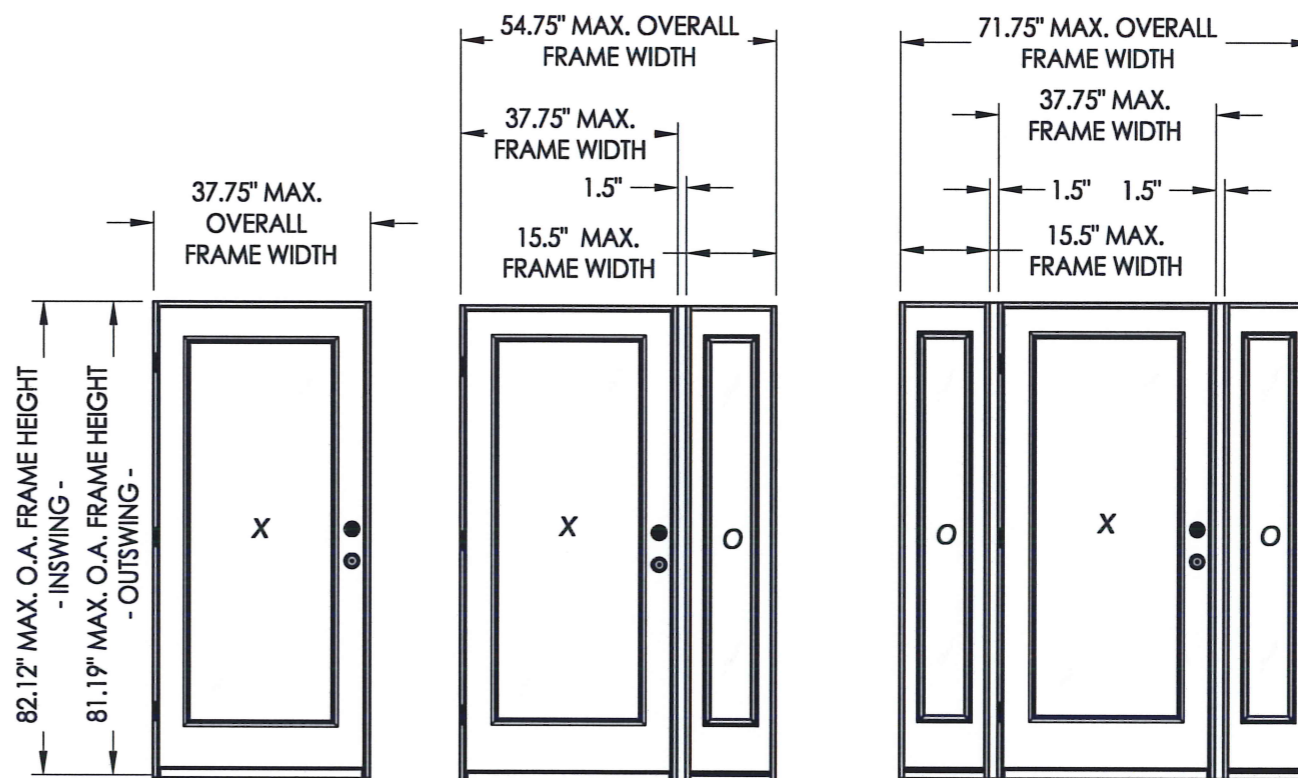
EVALUATED FOR USE IN THE STATE OF TEXAS

The Thermo-Tru FIBERGLASS door described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

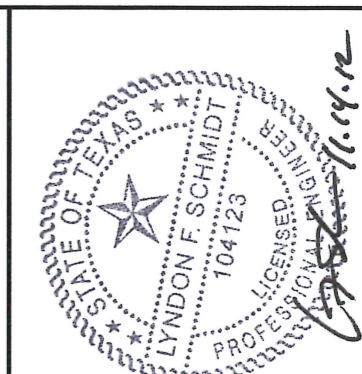
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, this product is required to be protected with an impact resistant covering that complies with Section 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.

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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



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"	IN SWING	+35.0	-40.0	+50.0	-55.0
	37.75" x 81.19"	OUT SWING	+35.0	-35.0	+50.0	-50.0
OX or XO	54.75" x 82.12"	IN SWING	+35.0	-40.0	+50.0	-55.0
	54.75" x 81.19"	OUT SWING	+35.0	-35.0	+50.0	-50.0
OXO	71.75" x 82.12"	IN SWING	+35.0	-40.0	+50.0	-55.0
	71.75" x 81.19"	OUT SWING	+35.0	-35.0	+50.0	-50.0



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

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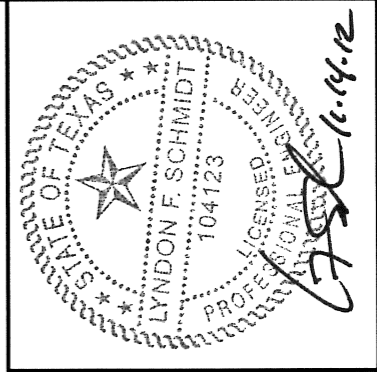
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

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

NO.	DATE	BY	REVISIONS

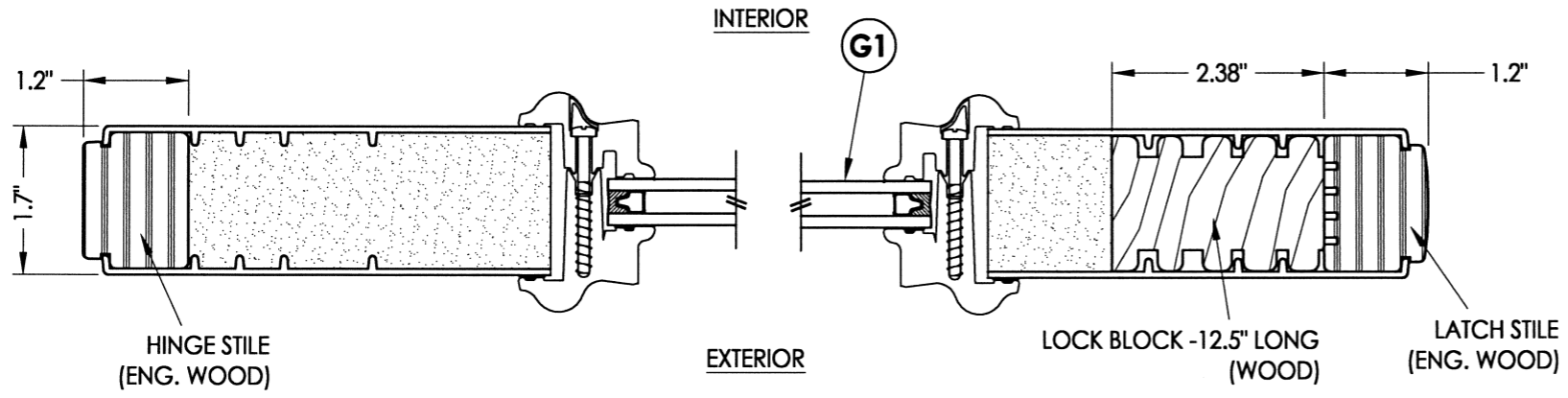
DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 1 OF 12



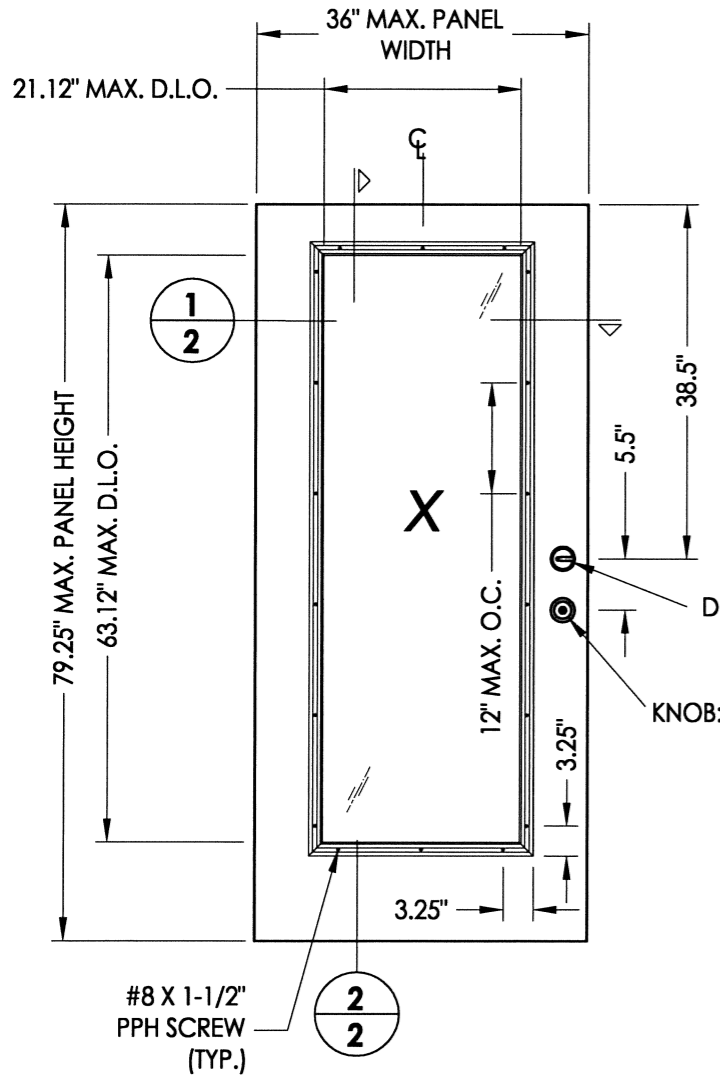
Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

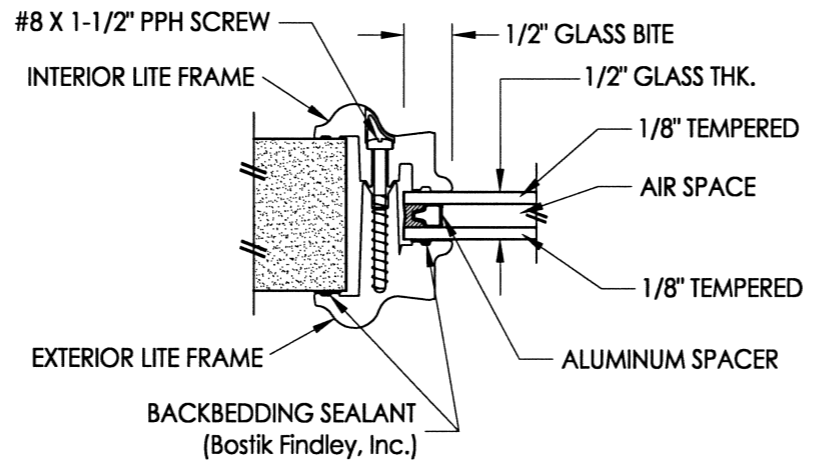
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



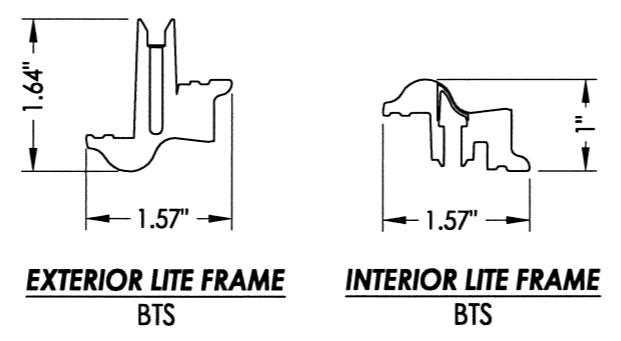
1 **HORIZONTAL CROSS SECTION**
2



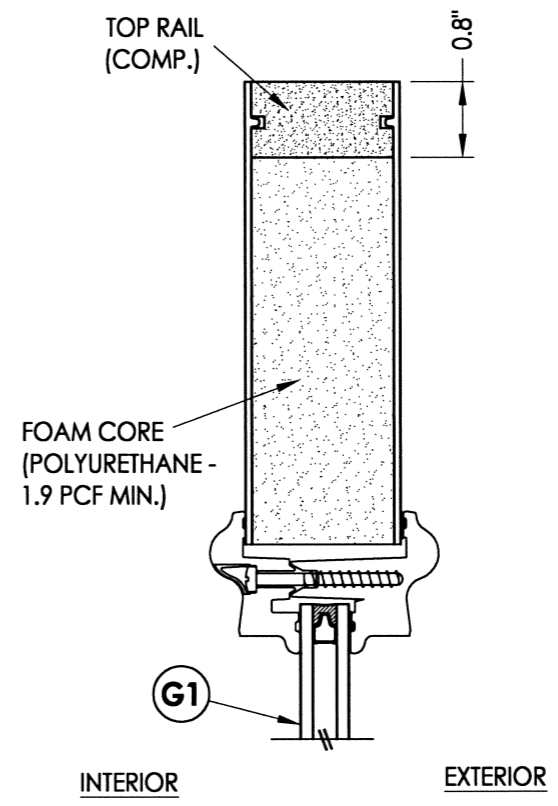
40 **DOOR PANEL**
Smooth Star/Fiber Classic



G1 **GLAZING DETAIL**
BTS Lip Lite Frame



EXTERIOR LITE FRAME BTS
INTERIOR LITE FRAME BTS



2 **VERTICAL CROSS SECTION**
2

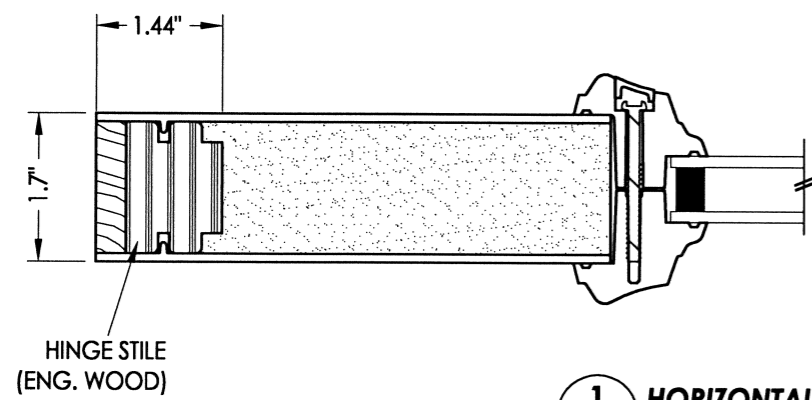
HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: "F" SERIES
	DEADBOLT: "B" SERIES

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

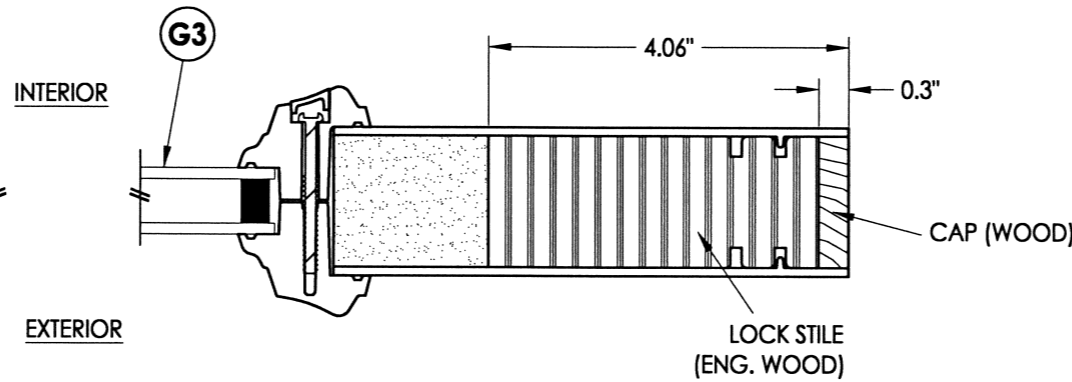
PART OR ASSEMBLY:
DOOR PANEL & GLAZING DETAIL
(SMOOTH STAR/FIBER CLASSIC)

NO.	DATE	BY	REVISIONS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 2 OF 12



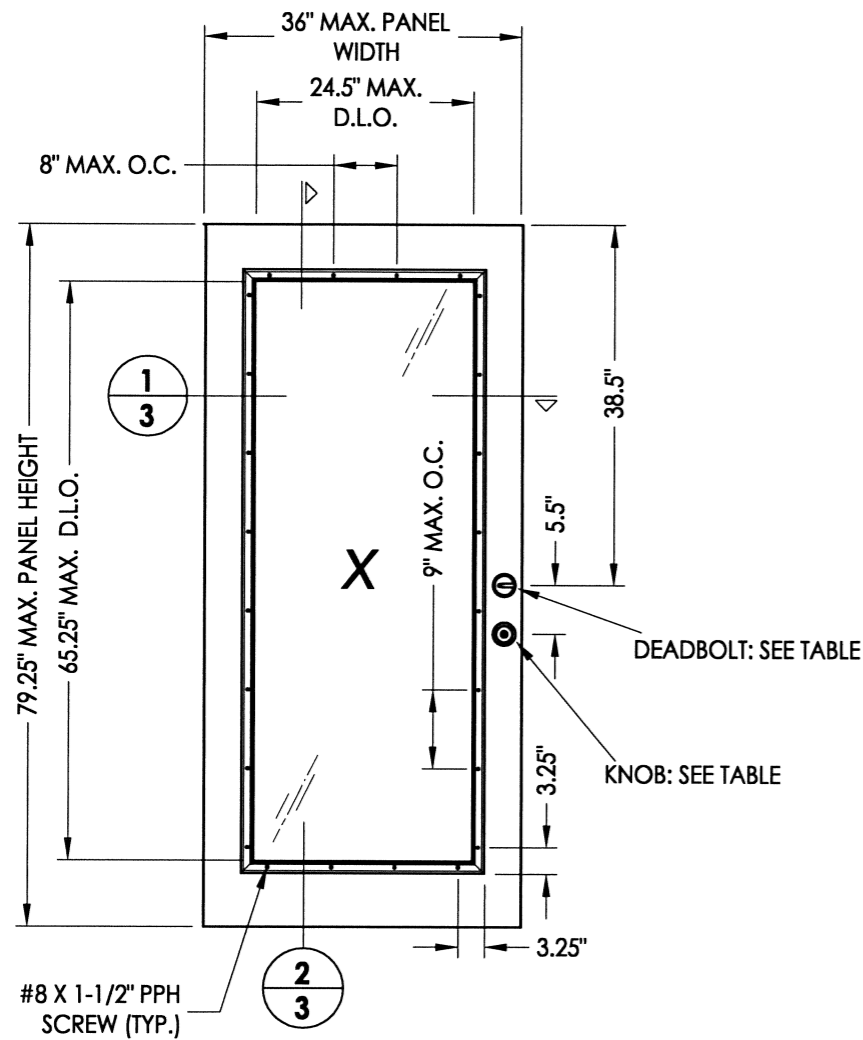
HINGE STILE
(ENG. WOOD)



EXTERIOR

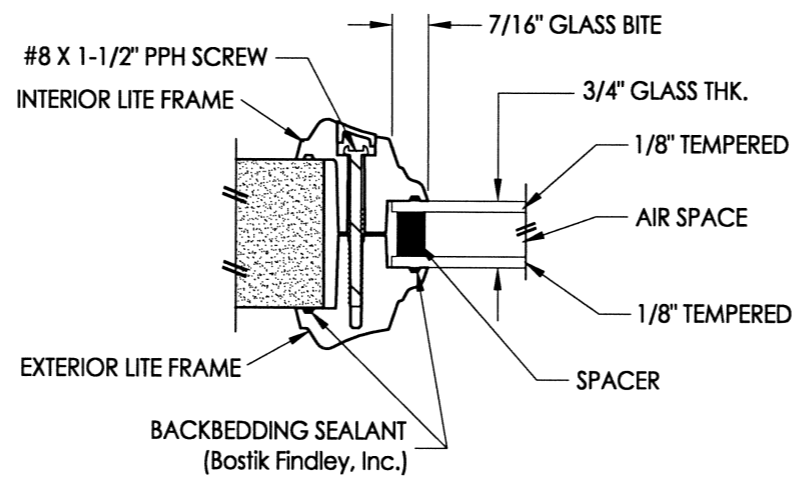
LOCK STILE
(ENG. WOOD)

1
3 HORIZONTAL CROSS SECTION

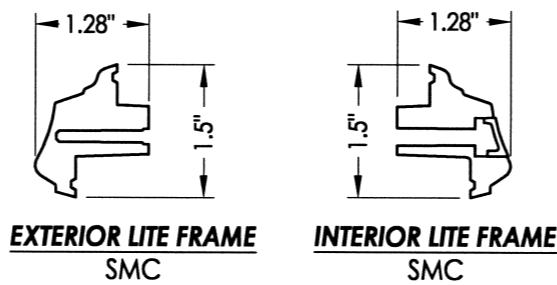


#8 X 1-1/2\"/>

41 DOOR PANEL
Classic Craft



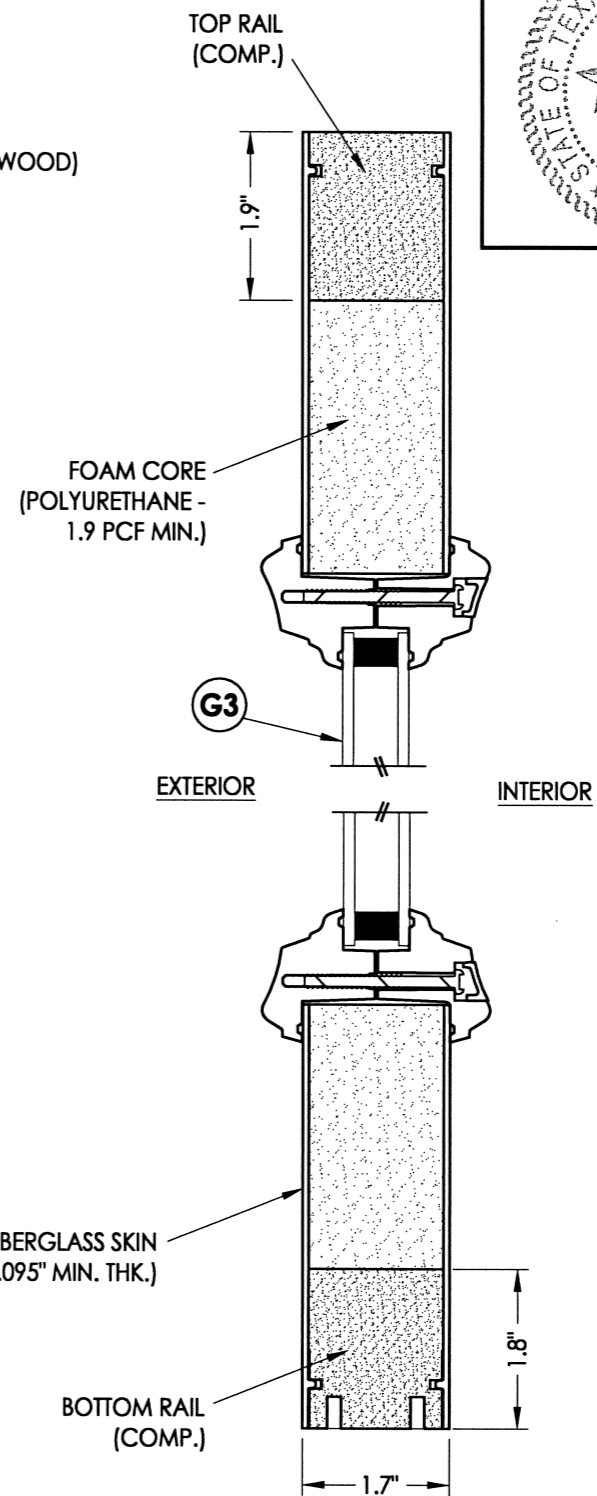
G3 GLAZING DETAIL
SMC Lip Lite Frame



EXTERIOR LITE FRAME
SMC

INTERIOR LITE FRAME
SMC

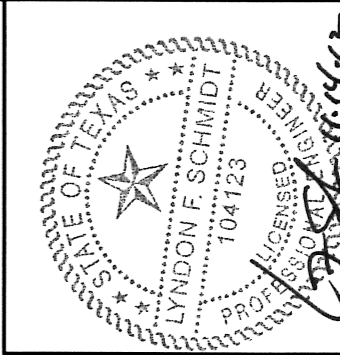
HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: "F" SERIES
	DEADBOLT: "B" SERIES



EXTERIOR

INTERIOR

2
3 VERTICAL CROSS SECTION



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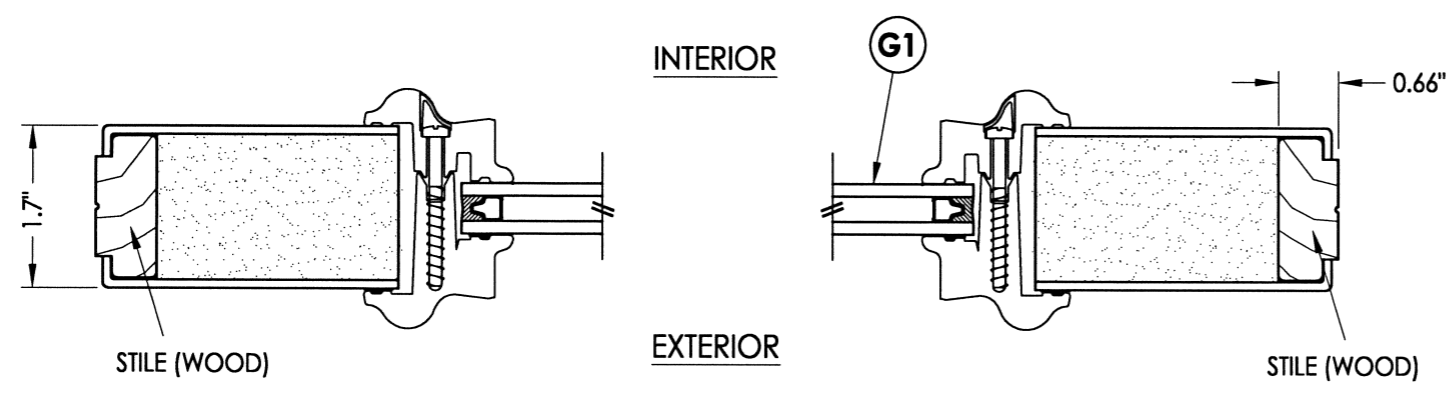
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
DOOR PANEL & GLAZING DETAIL
(CLASSIC CRAFT)

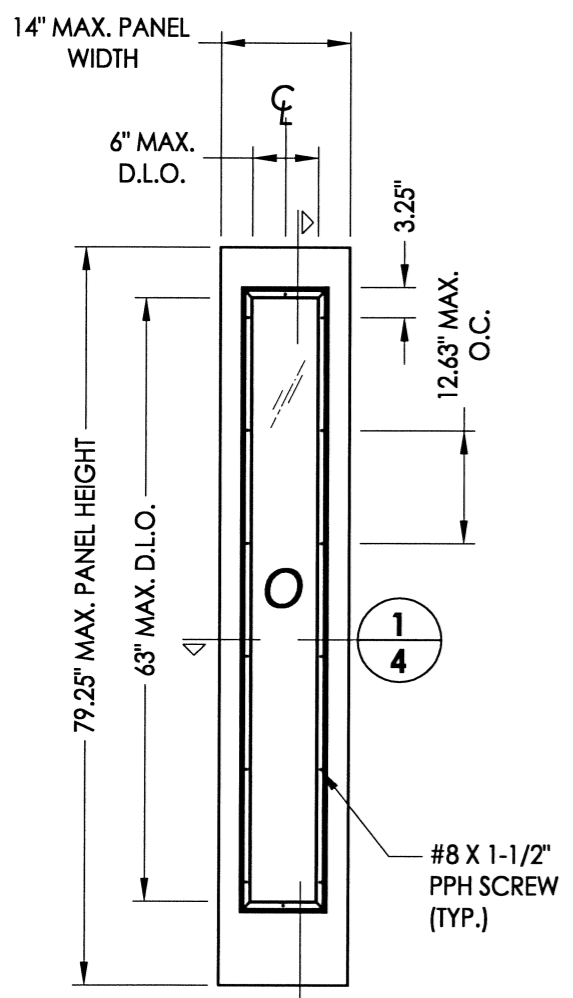
NO.	DATE	BY	REVISIONS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 3 OF 12

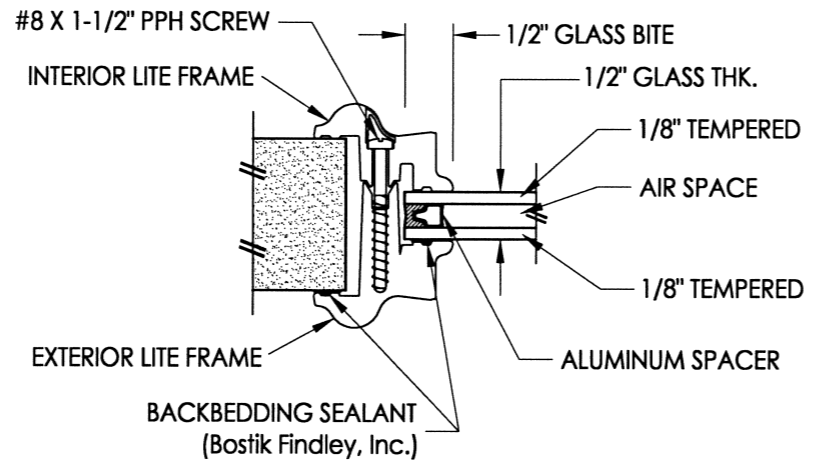
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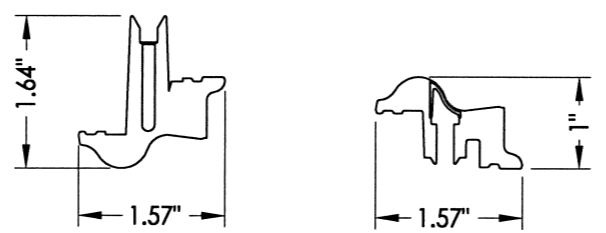
1
3 HORIZONTAL CROSS SECTION



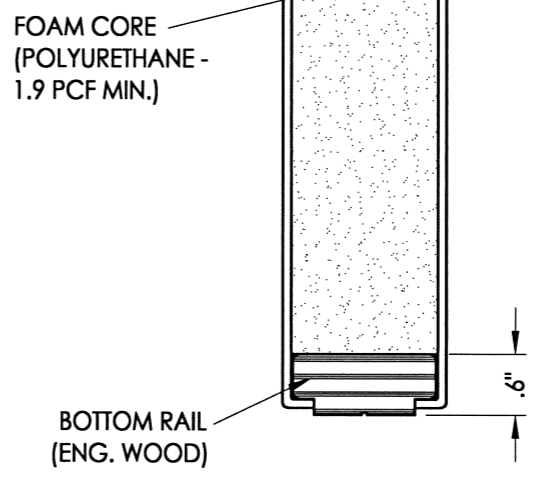
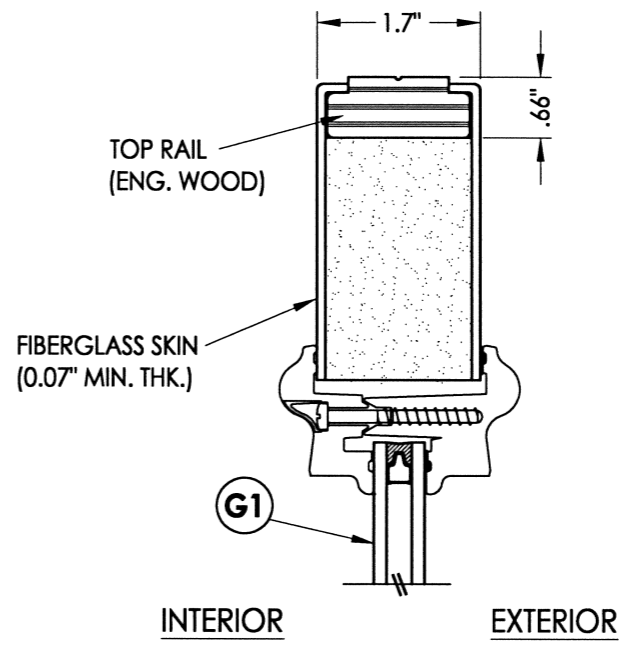
50 SIDELITE PANEL
Smooth Star/Fiber Classic



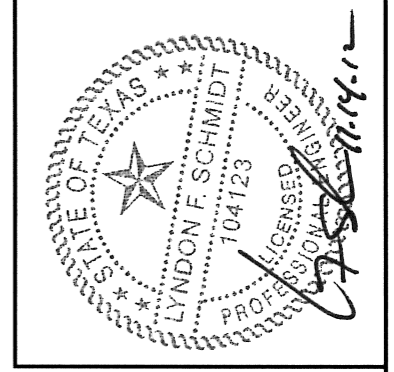
G1 GLAZING DETAIL
BTS Lip Lite Frame



EXTERIOR LITE FRAME
BTS
INTERIOR LITE FRAME
BTS



2
4 VERTICAL CROSS SECTION

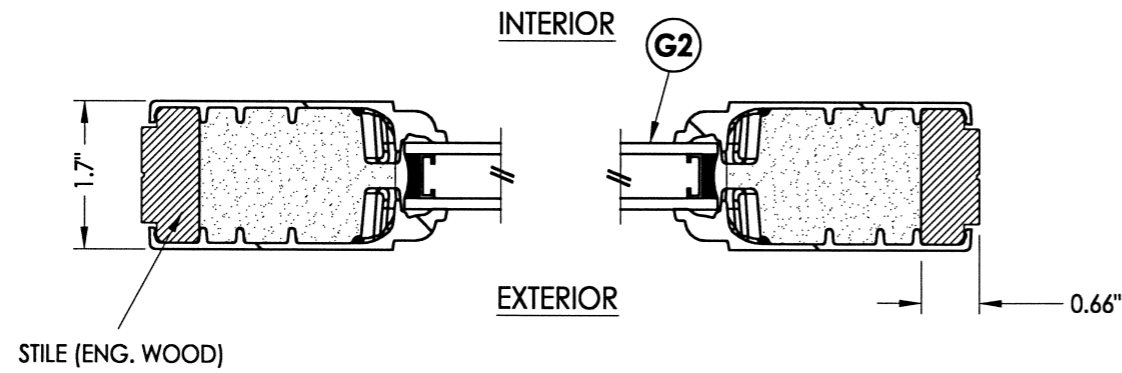


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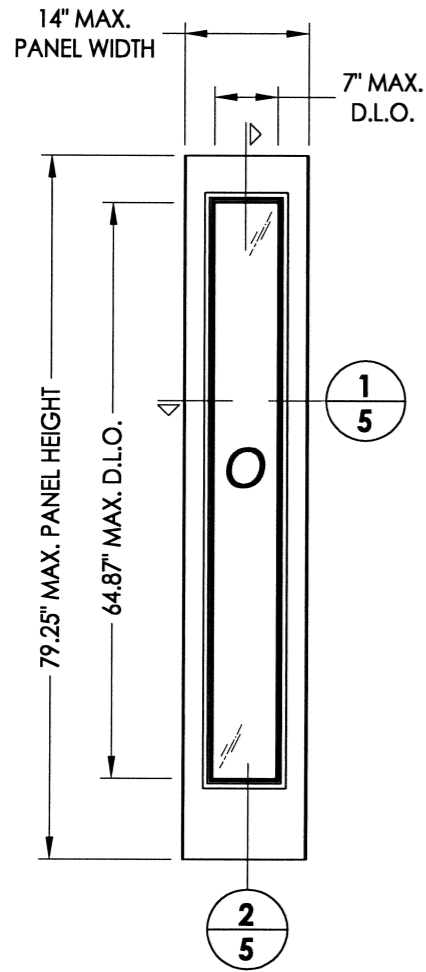
PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
SIDELITE PANEL & GLAZING DETAIL
(SMOOTH STAR/FIBER CLASSIC)

NO.	DATE	BY	REVISIONS

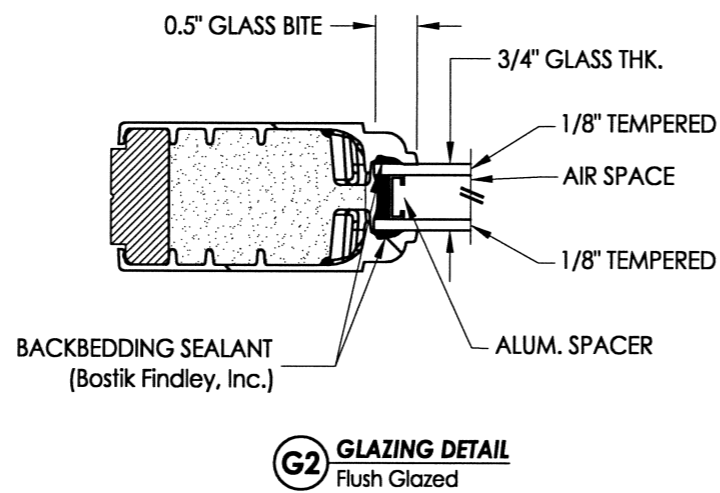
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 4 of 12



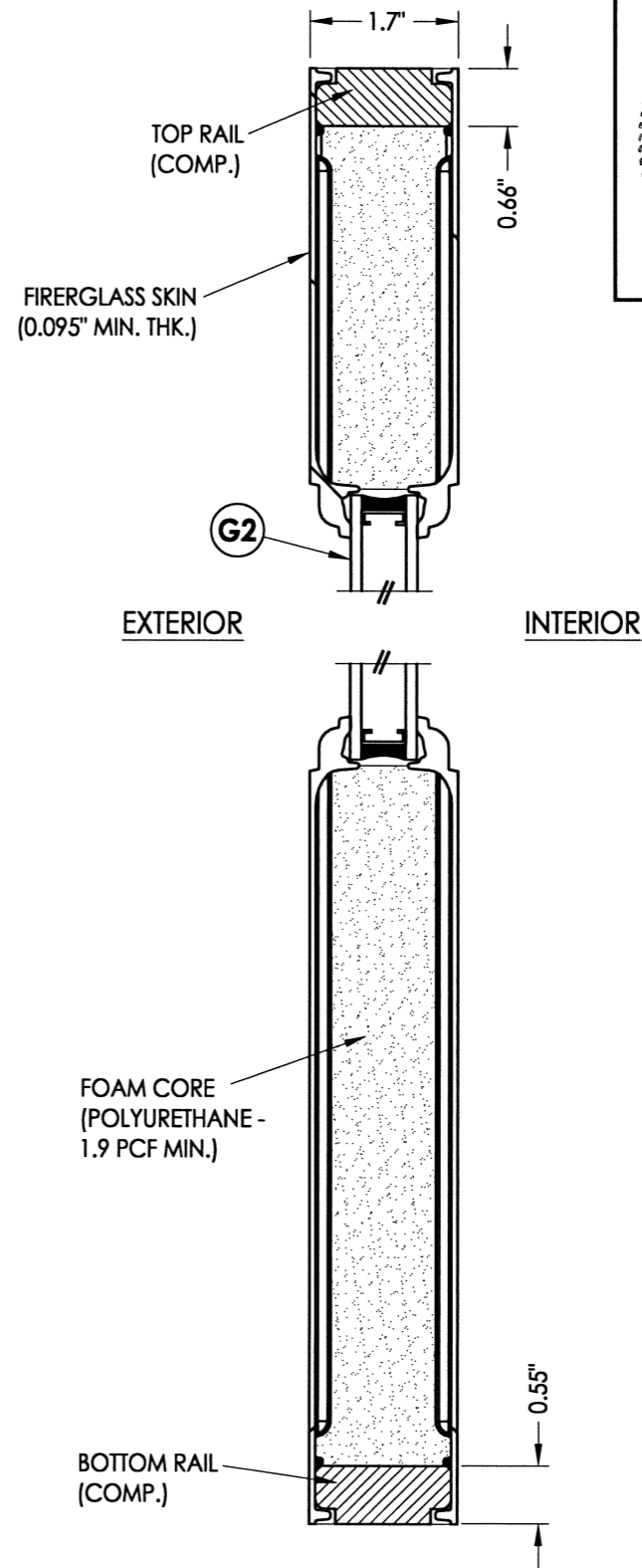
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5 **HORIZONTAL CROSS SECTION**



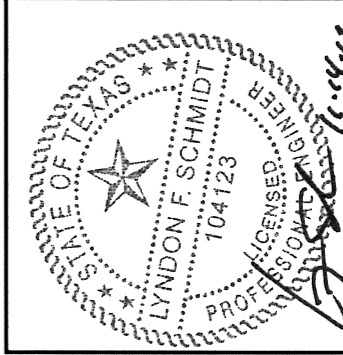
51 **SIDELITE PANEL**
Classic Craft



G2 **GLAZING DETAIL**
Flush Glazed



2
5 **VERTICAL CROSS SECTION**



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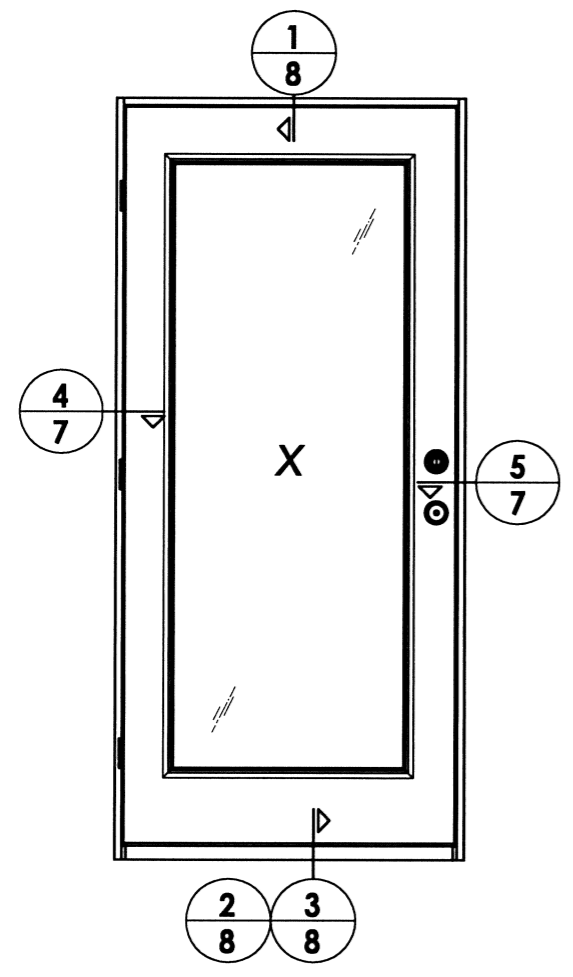
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

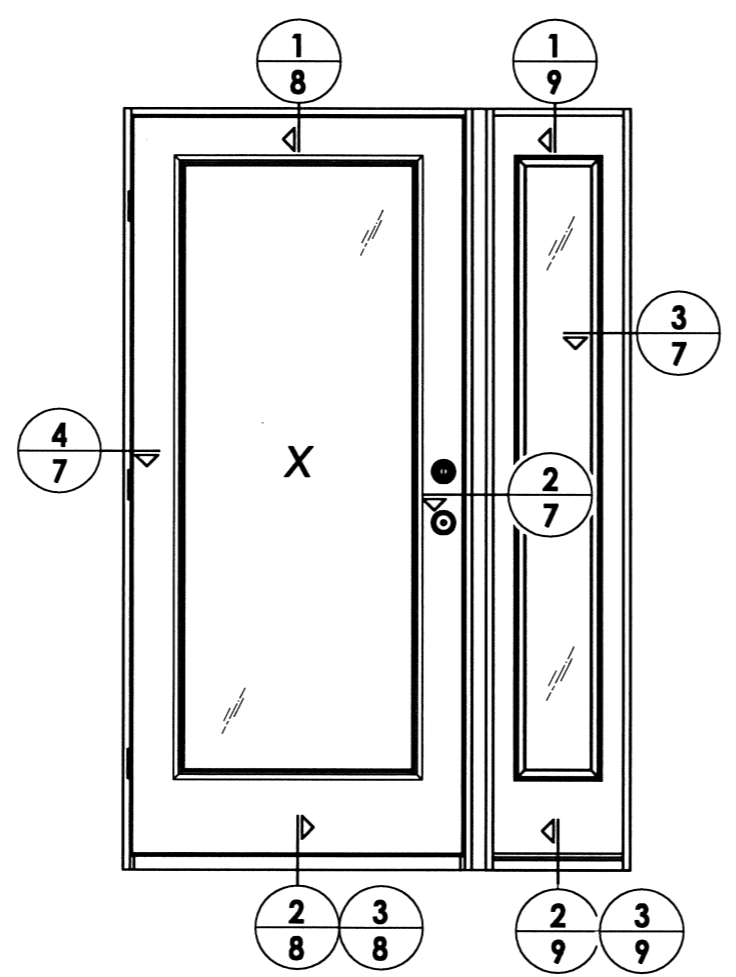
PART OR ASSEMBLY:
SIDELITE PANEL & GLAZING DETAIL
(CLASSIC CRAFT)

NO.	DATE	BY	REVISIONS

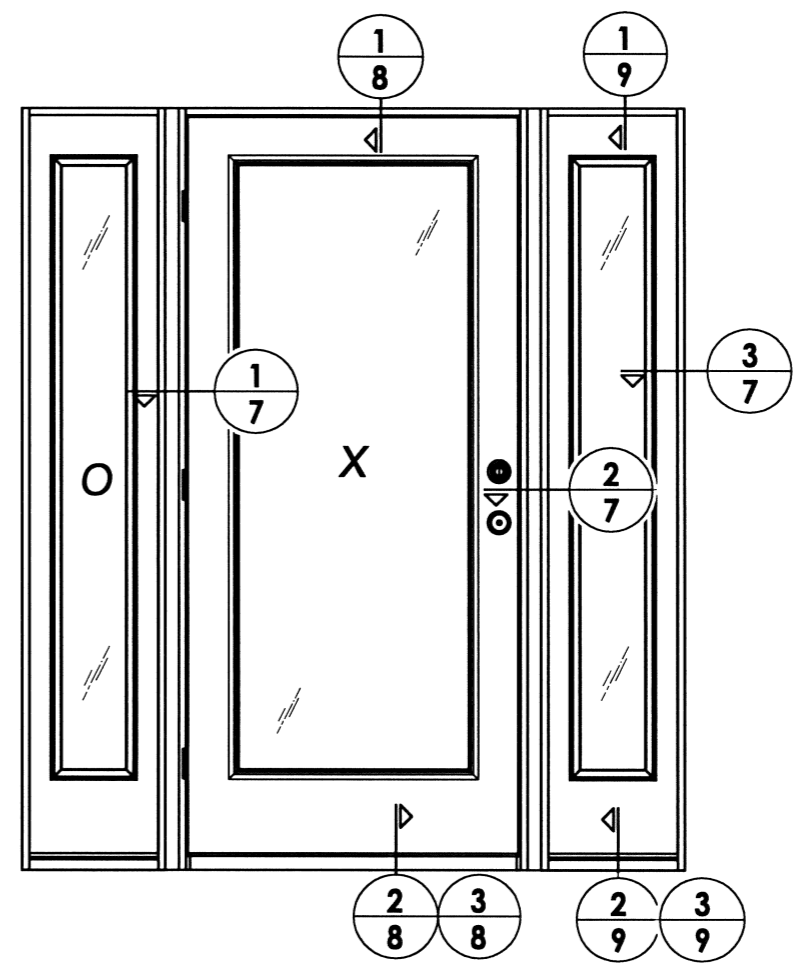
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DRAWING NO.: TX-4262
SHEET 5 OF 12



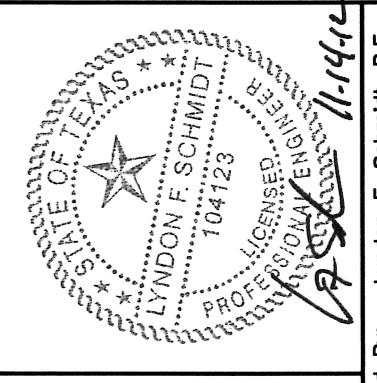
ELEVATION (X)



ELEVATION (OX / XO)



ELEVATION (OXO)



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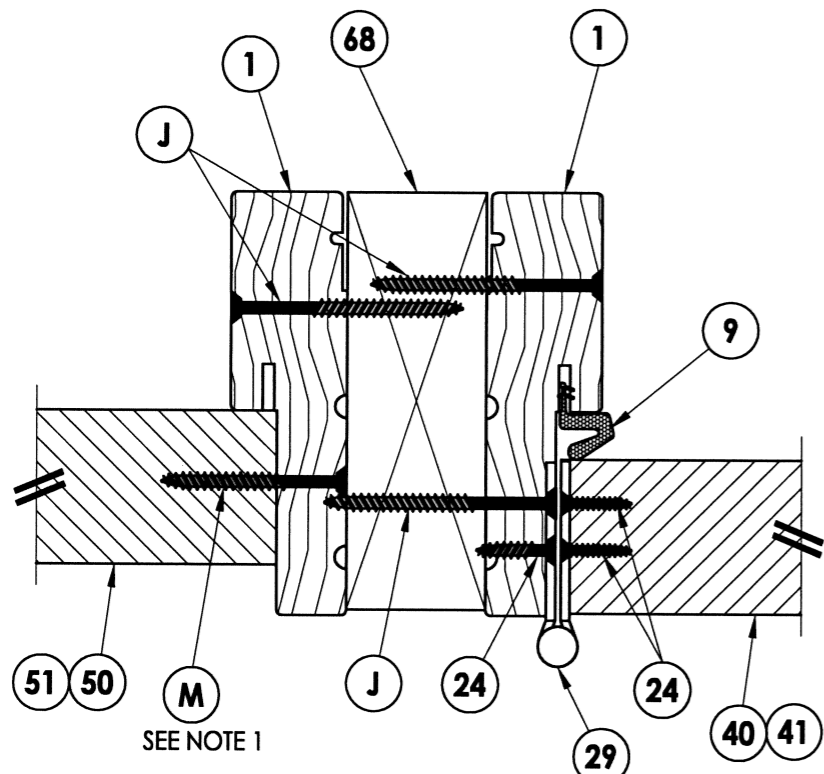
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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

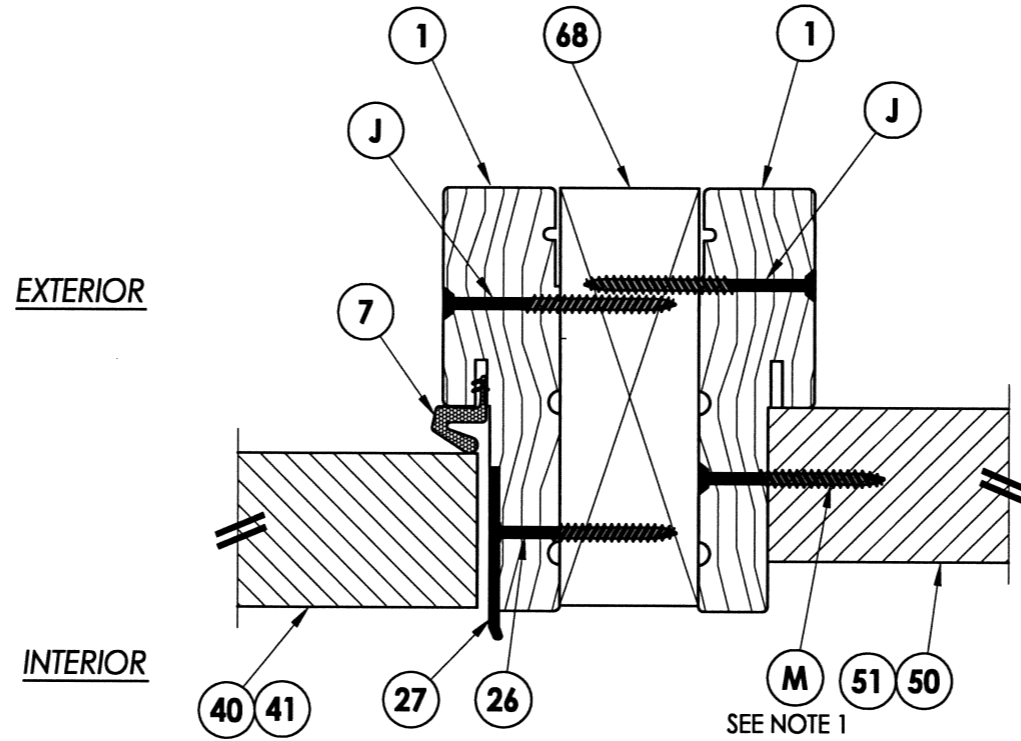
NO.	DATE	BY	REVISIONS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 6 of 12

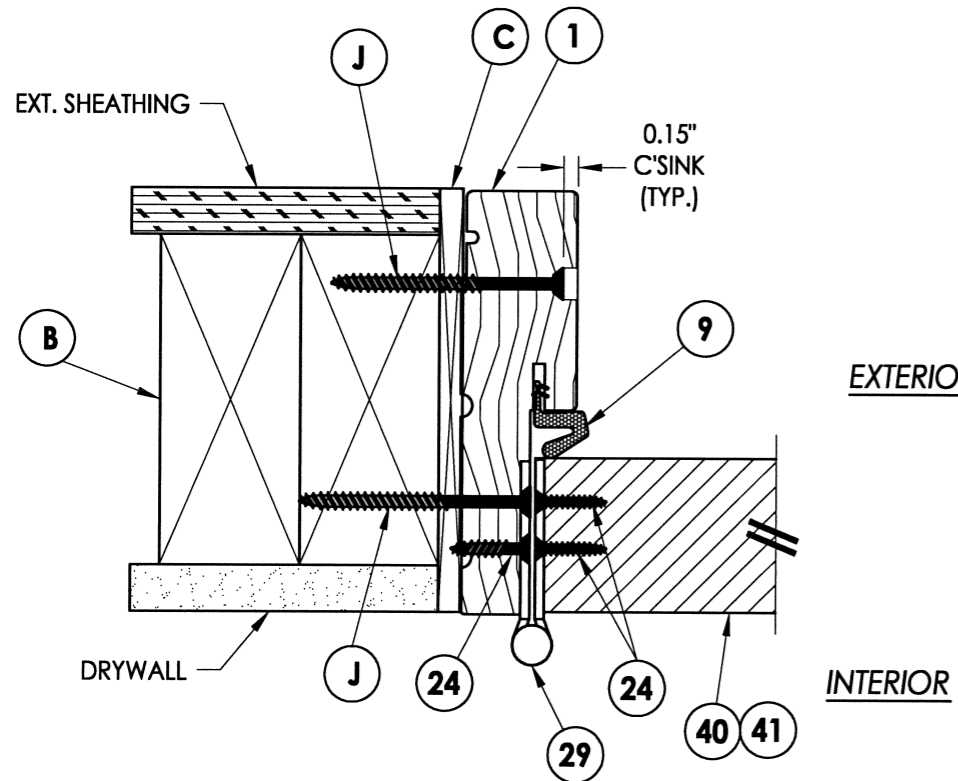
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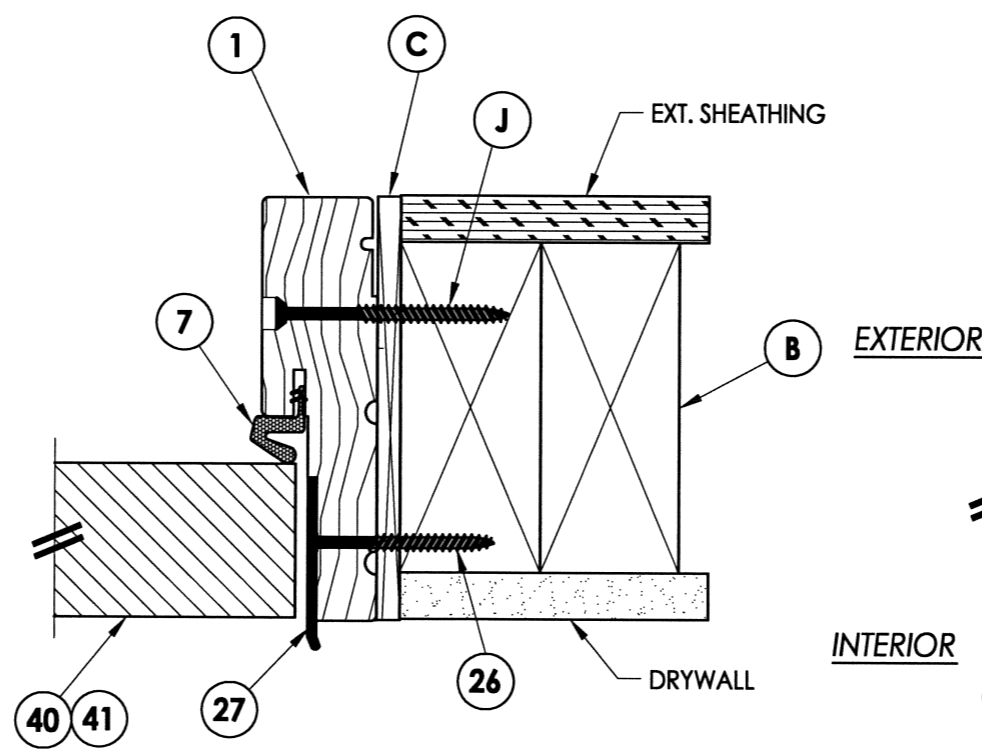
1
7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



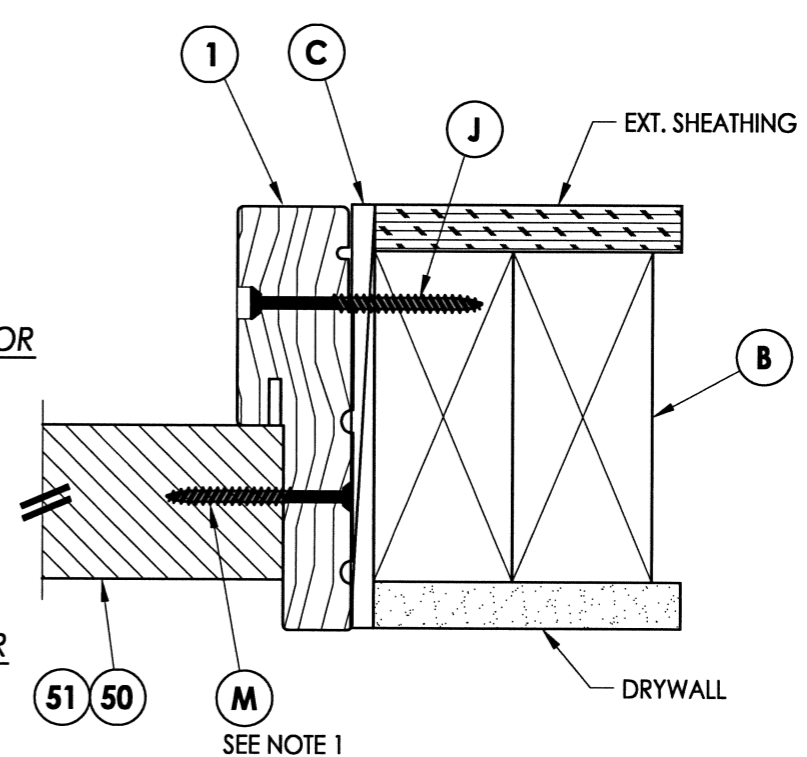
2
7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



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

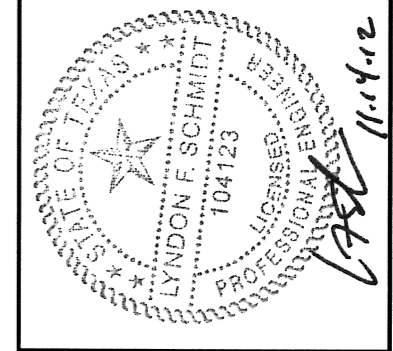


5
7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



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

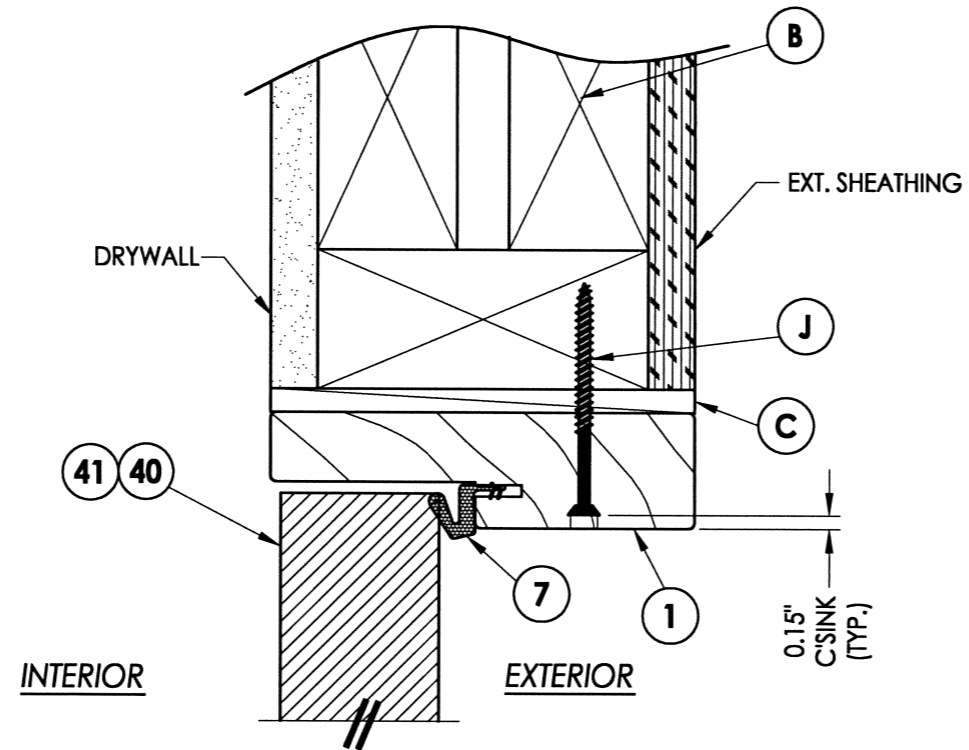
Note:
1. Sidelite assembly screws located 11-1/2" from each end plus 1 more at the center of jamb (3 total).



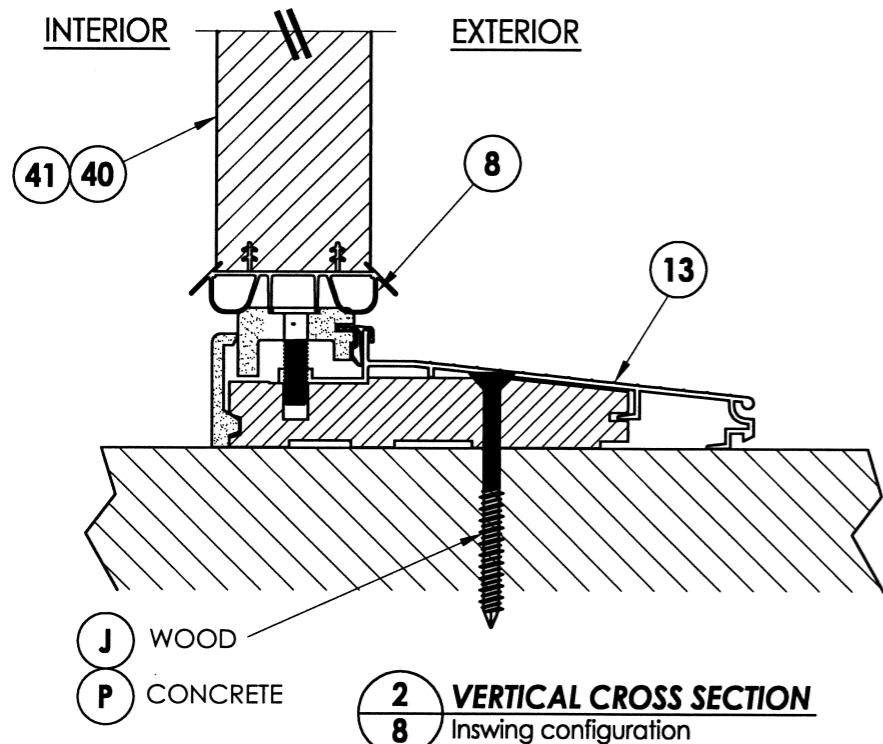
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Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
NO.	DATE
BY	REVISIONS
DATE: 10/08/12	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4262	
SHEET 7 OF 12	

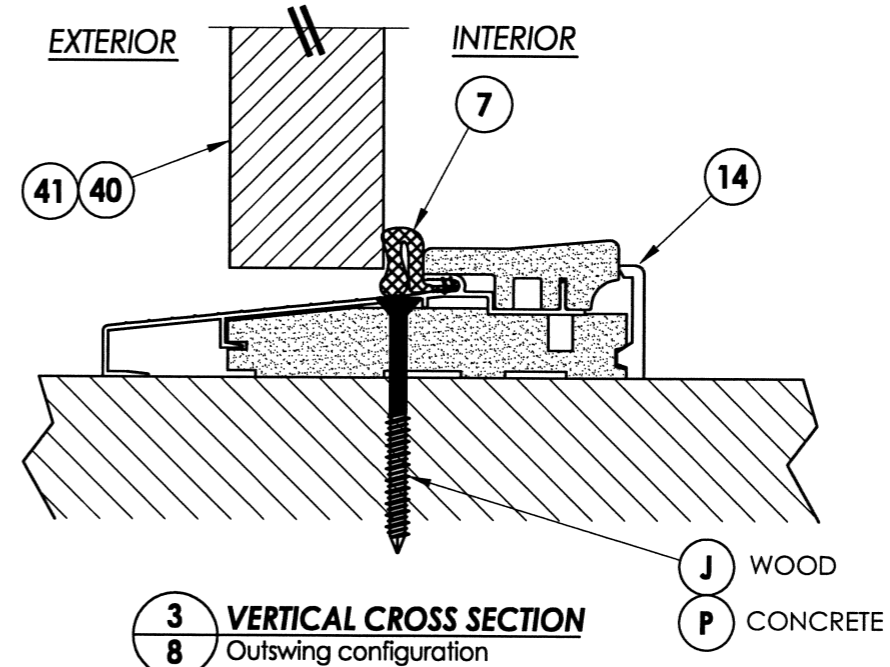
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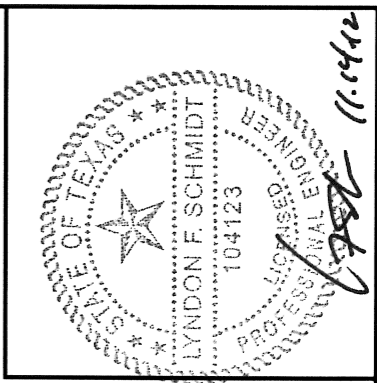
1 VERTICAL CROSS SECTION
 8 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
 8 Inswing configuration



3 VERTICAL CROSS SECTION
 8 Outswing configuration



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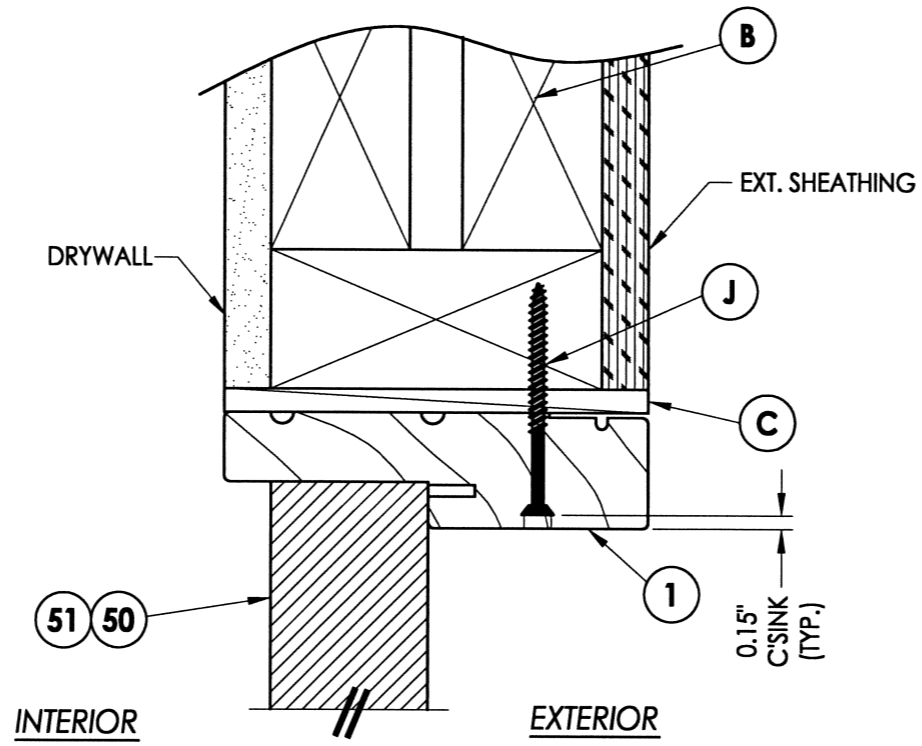
R.W. BUILDING CONSULTANTS, INC.
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 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

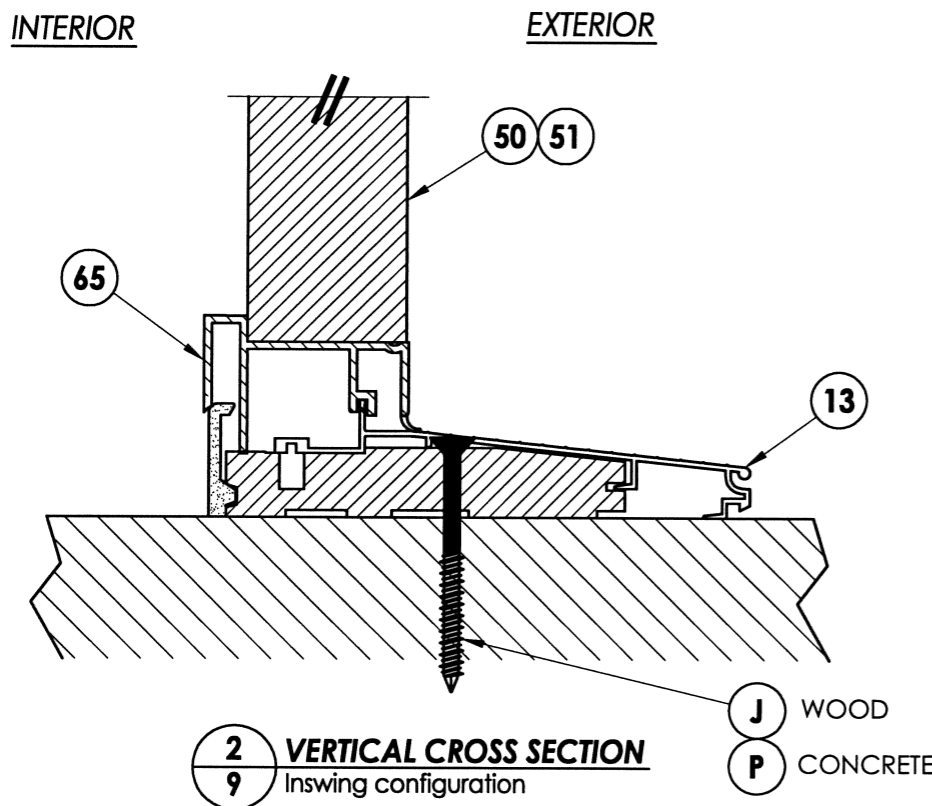
NO.	DATE	BY

DATE: 10/08/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4262
 SHEET 8 OF 12

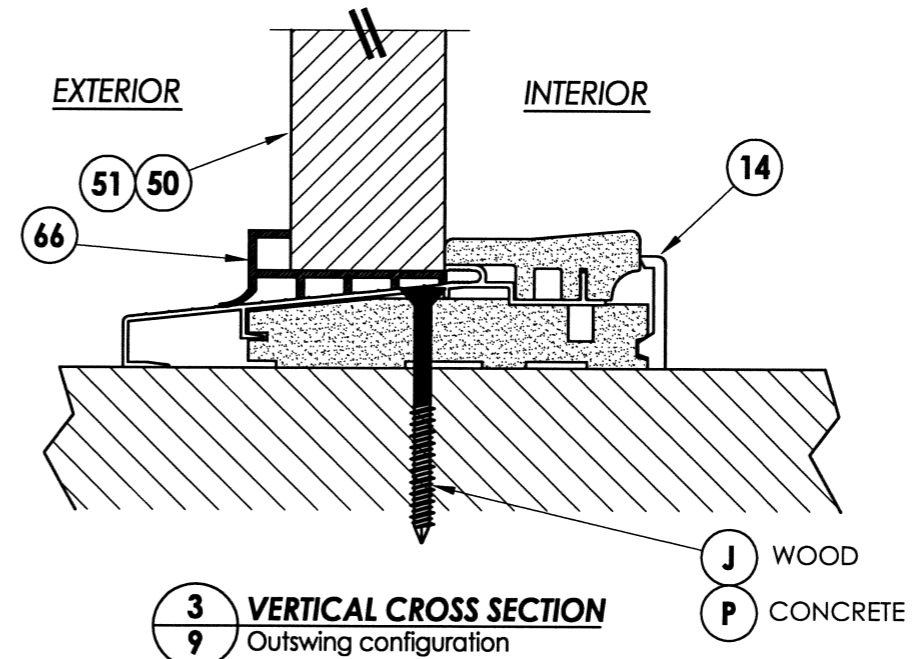
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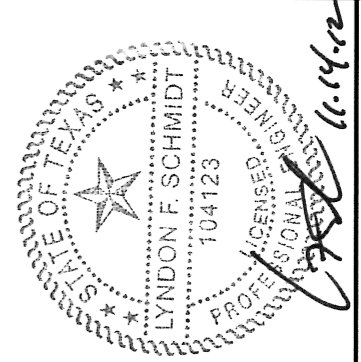
1 VERTICAL CROSS SECTION
 9 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
 9 Inswing configuration



3 VERTICAL CROSS SECTION
 9 Outswing configuration



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 Phone No.: 813.659.9197

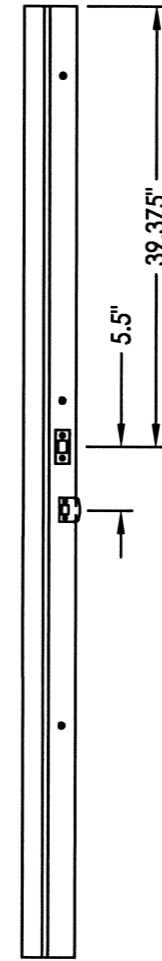
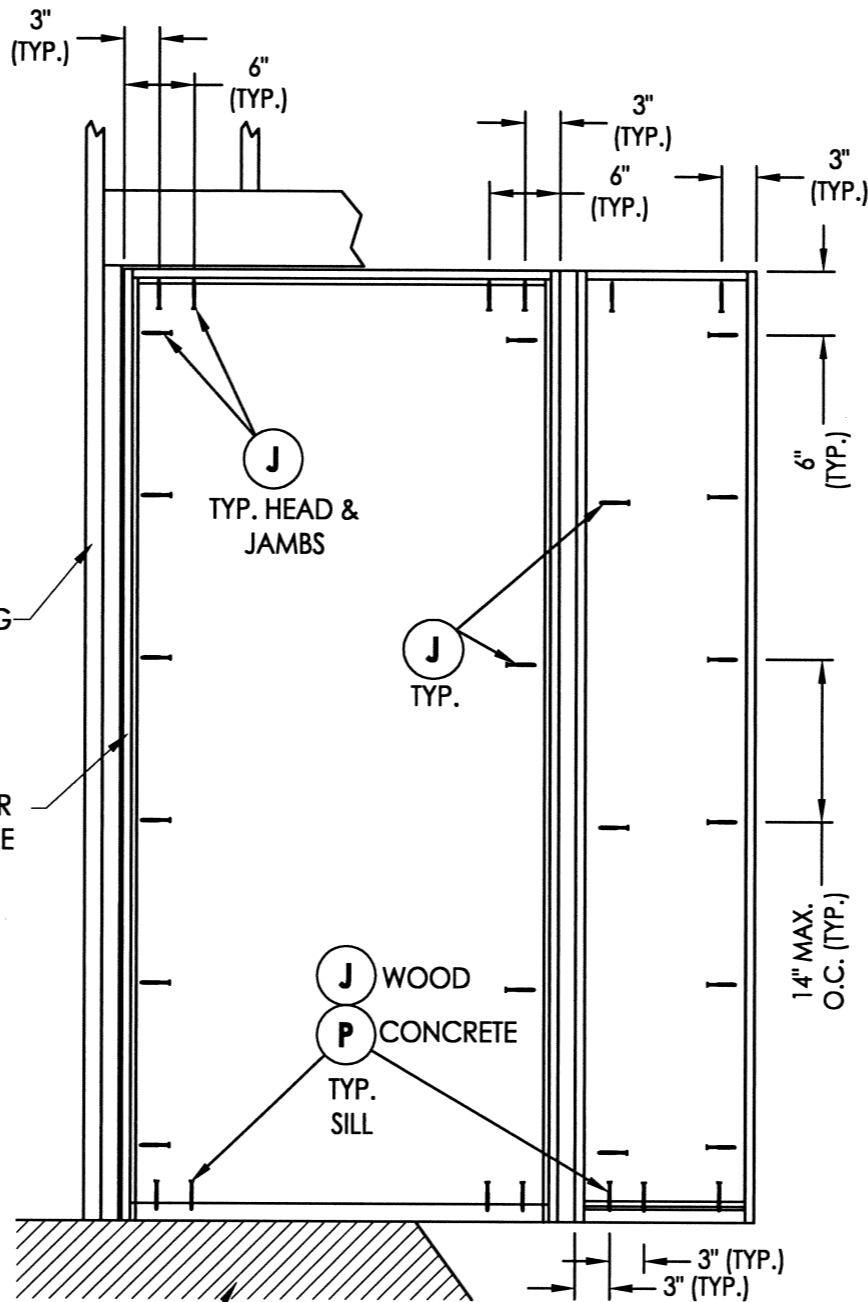
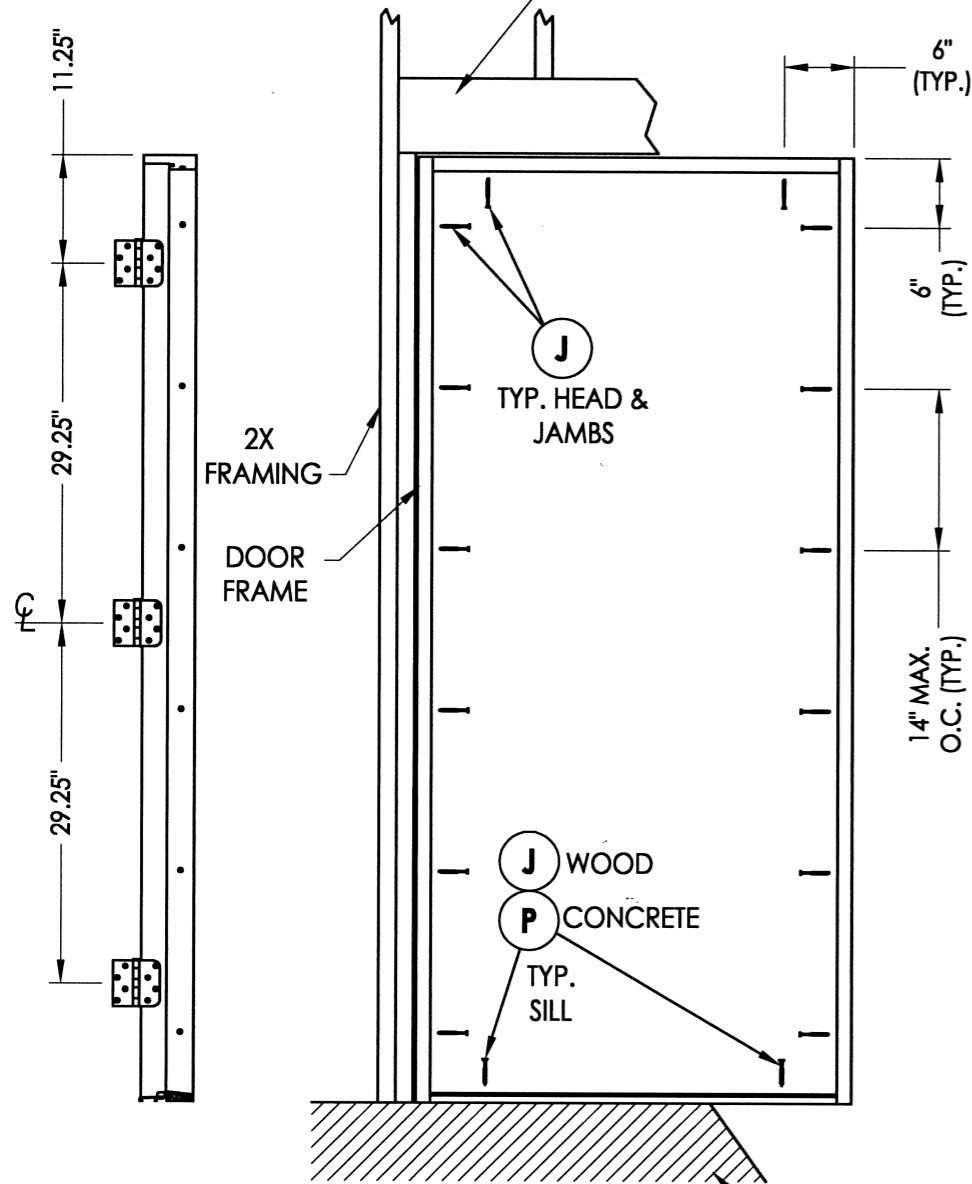
TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

NO.	DATE	BY	REVISIONS

DATE: 10/08/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4262
 SHEET 9 of 12

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED (TYP.).



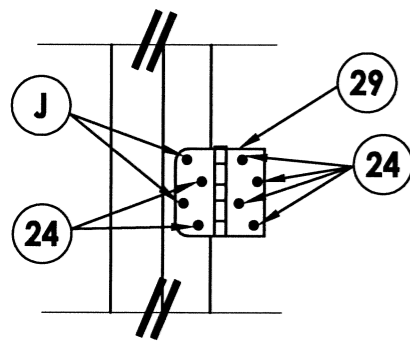
HINGE JAMB

FRAME ANCHORING X

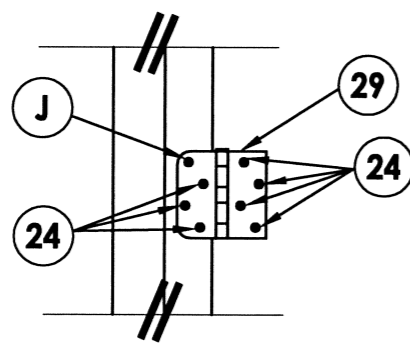
FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. \geq 0.42)

FRAME ANCHORING OX / XO

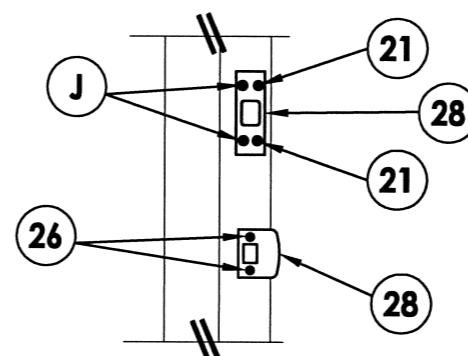
STRIKE JAMB



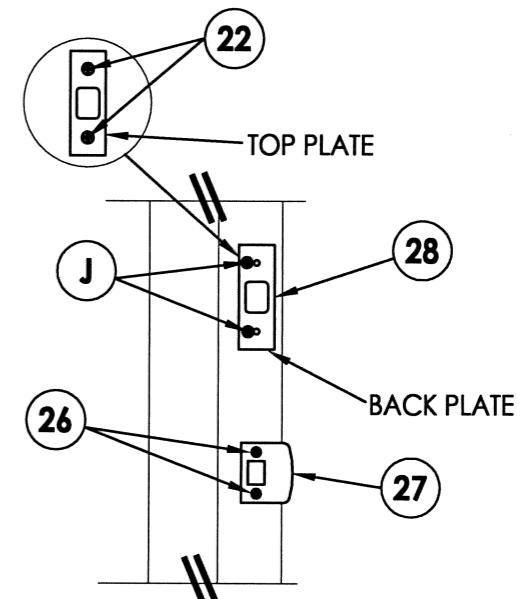
HINGE DETAIL Inswing



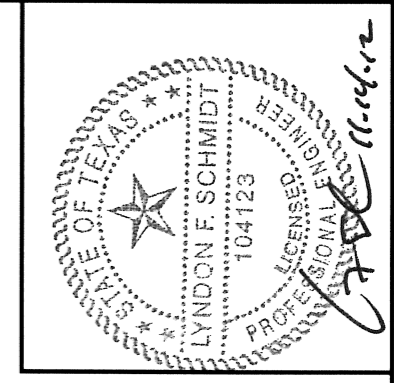
HINGE DETAIL Outswing



LATCH & DEADBOLT STRIKE DETAIL
Kwikset Hardware - Standard Strike



LATCH & DEADBOLT STRIKE DETAIL
Schlage Hardware - Standard Strike



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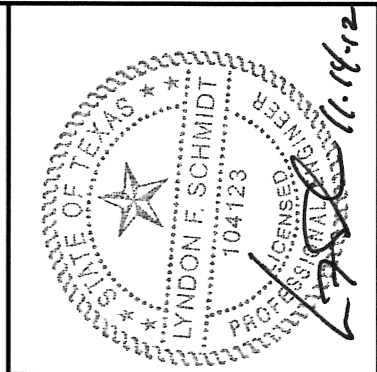
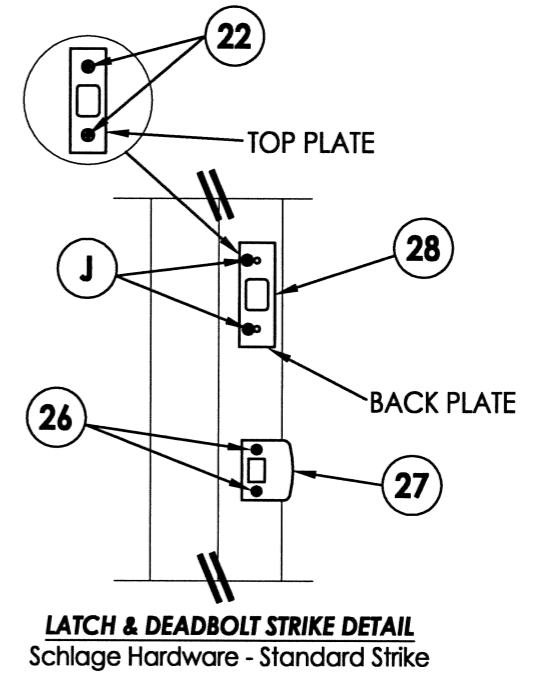
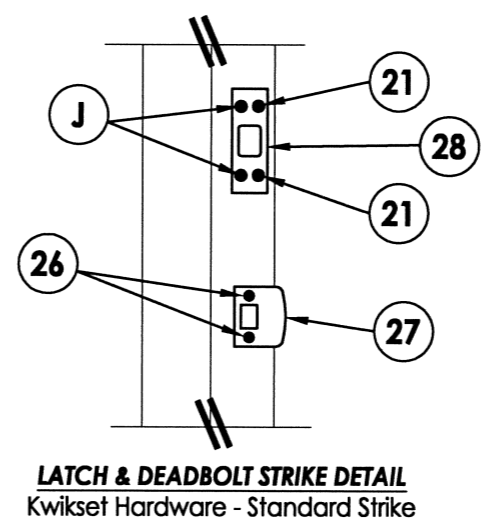
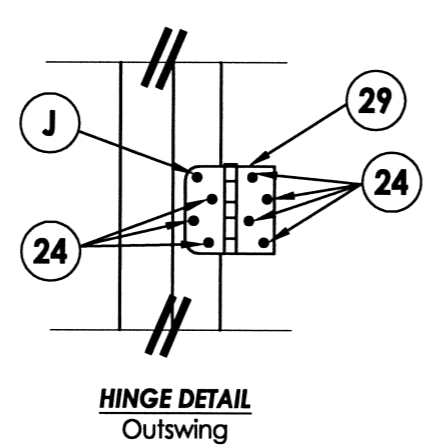
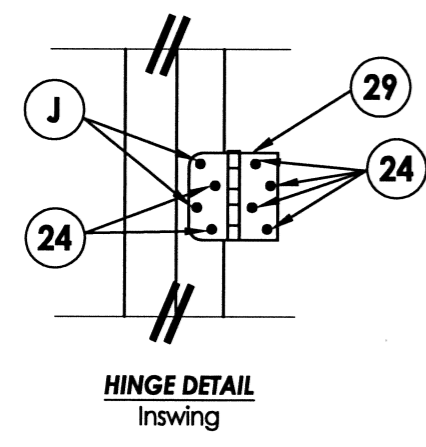
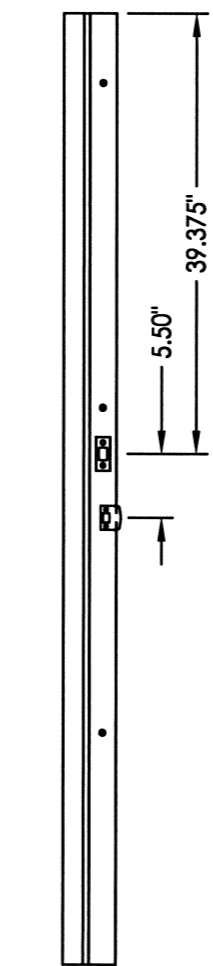
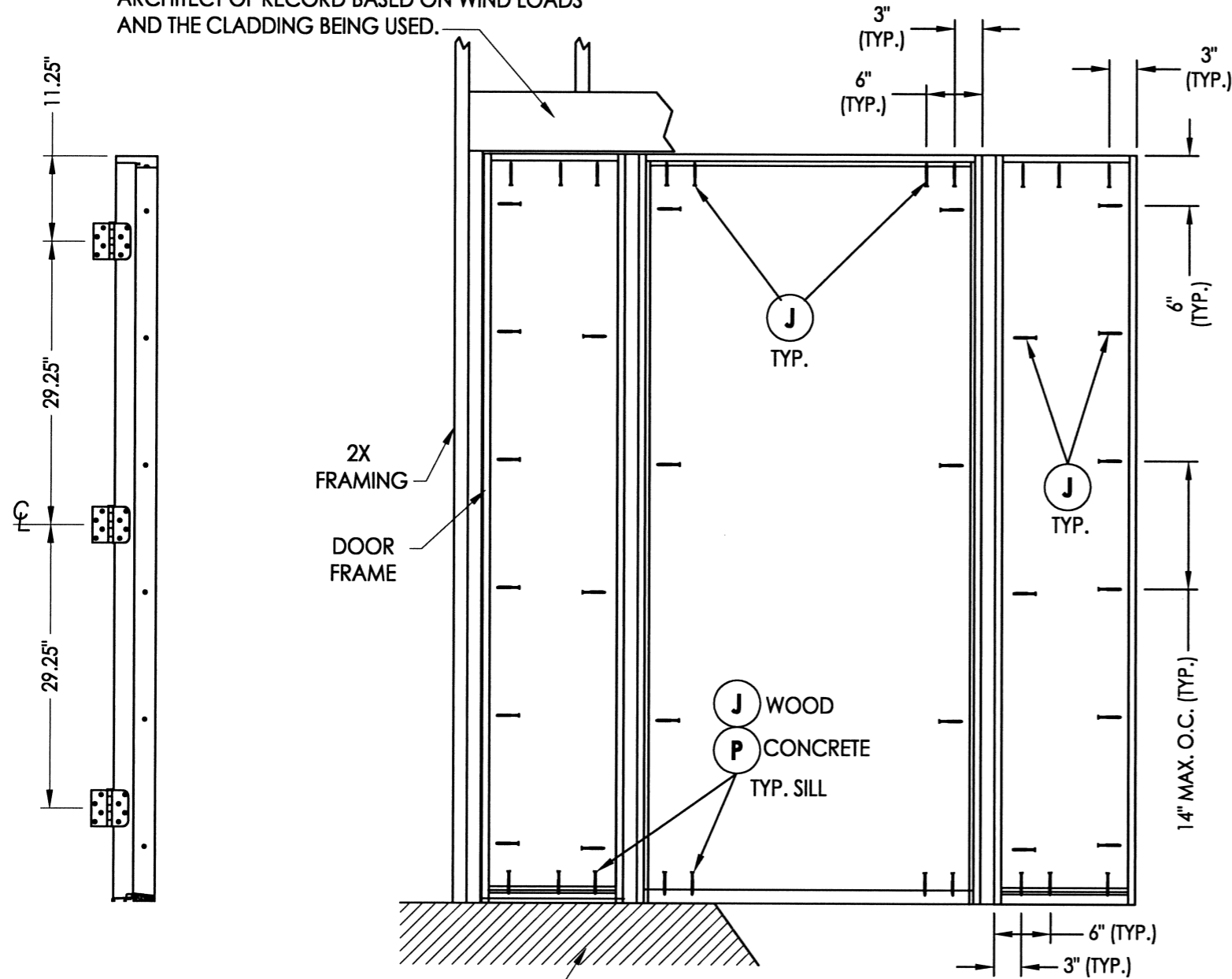
PRODUCT: THERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY	REVISIONS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 10 OF 12

R:\A - Projects\Project Folders\Proj 1601 - 1700\PF 1694\D. RWBC Drawings\Texas 2012\TX-4262-63.dwg, 11

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED.



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PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY	REVISIONS

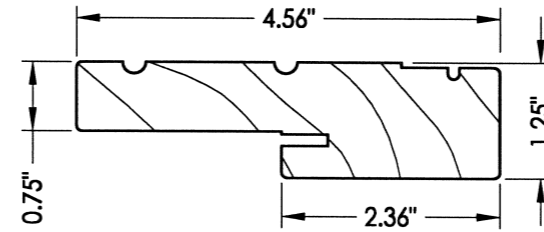
DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 11 OF 12

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

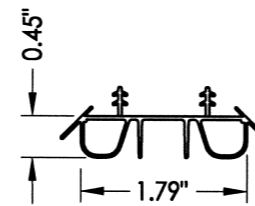
CONCRETE ANCHOR NOTES:

- 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:

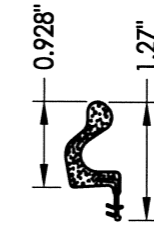
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



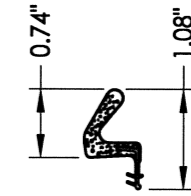
1 WOOD JAMB



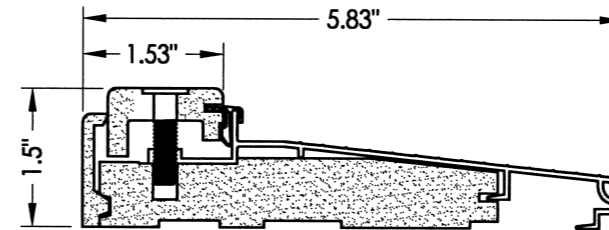
8 SWEEP



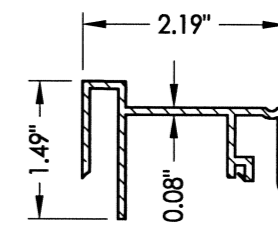
7 WEATHERSTRIP Long Reach



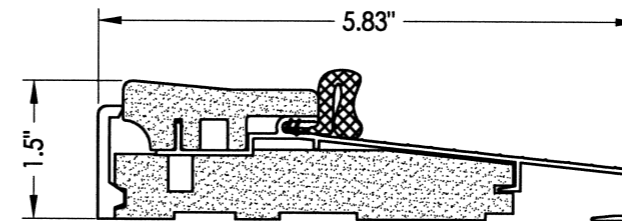
9 WEATHERSTRIP Medium Reach



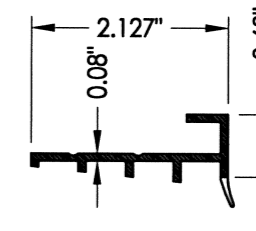
13 INSWING THRESHOLD



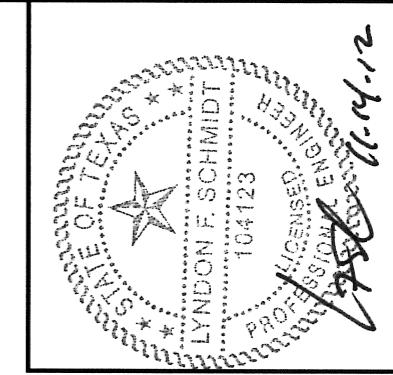
65 INSWING SIDELITE ADAPTER



14 OUTSWING THRESHOLD



66 OUTSWING SIDELITE ADAPTER



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PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4262
SHEET 12 OF 12