

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

Glazed Fiberglass Double Door w/ or w/o Sidelites

INSWING / OUTSWING

"Non-Impact"

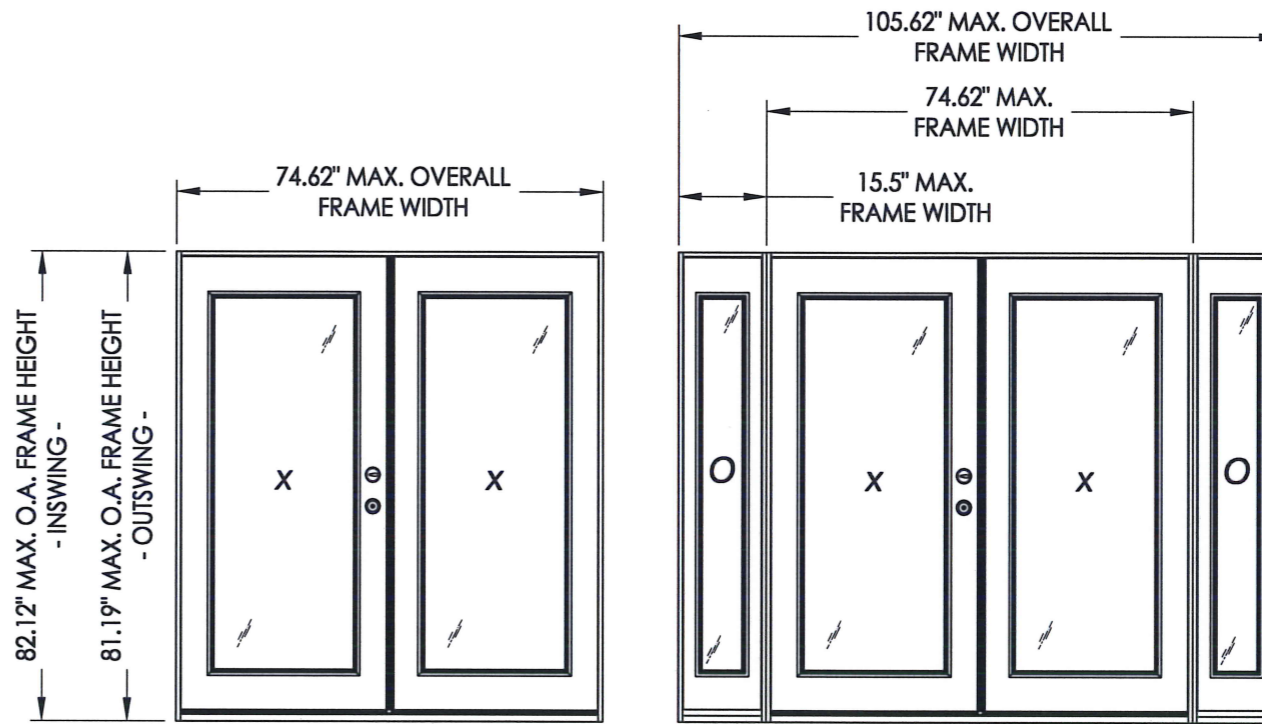
EVALUATED FOR USE IN THE STATE OF TEXAS

The Therma-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:

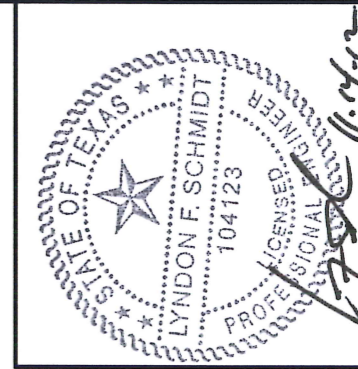
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, the opaque doors do not require impact protection while the sidelites are required to be protected 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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SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel & glazing detail (Smooth Star/Fiber Classic)
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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	Astragal details
12	Bill of materials and components



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



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

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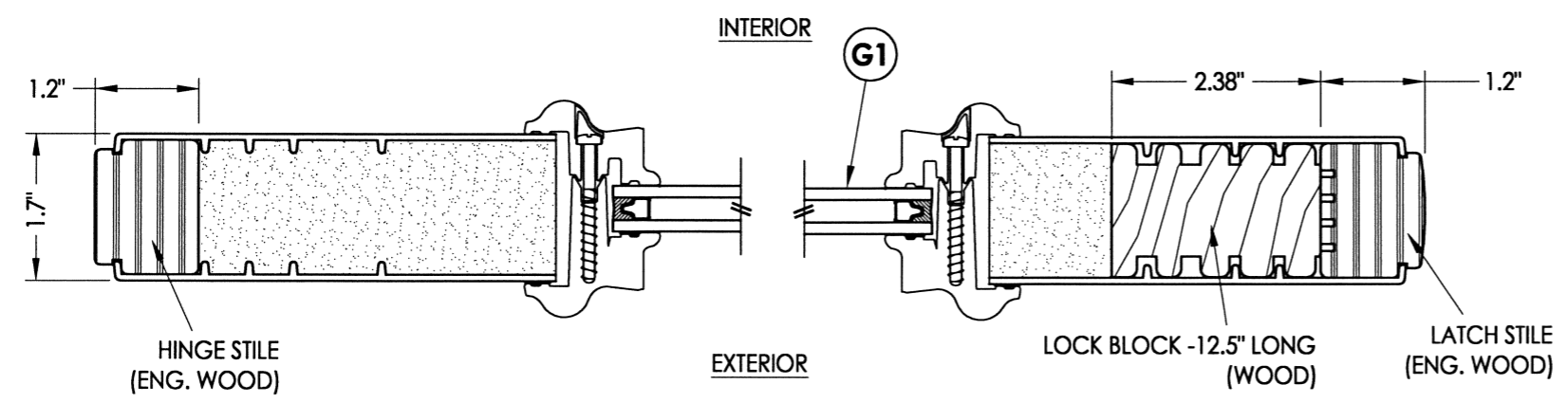
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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

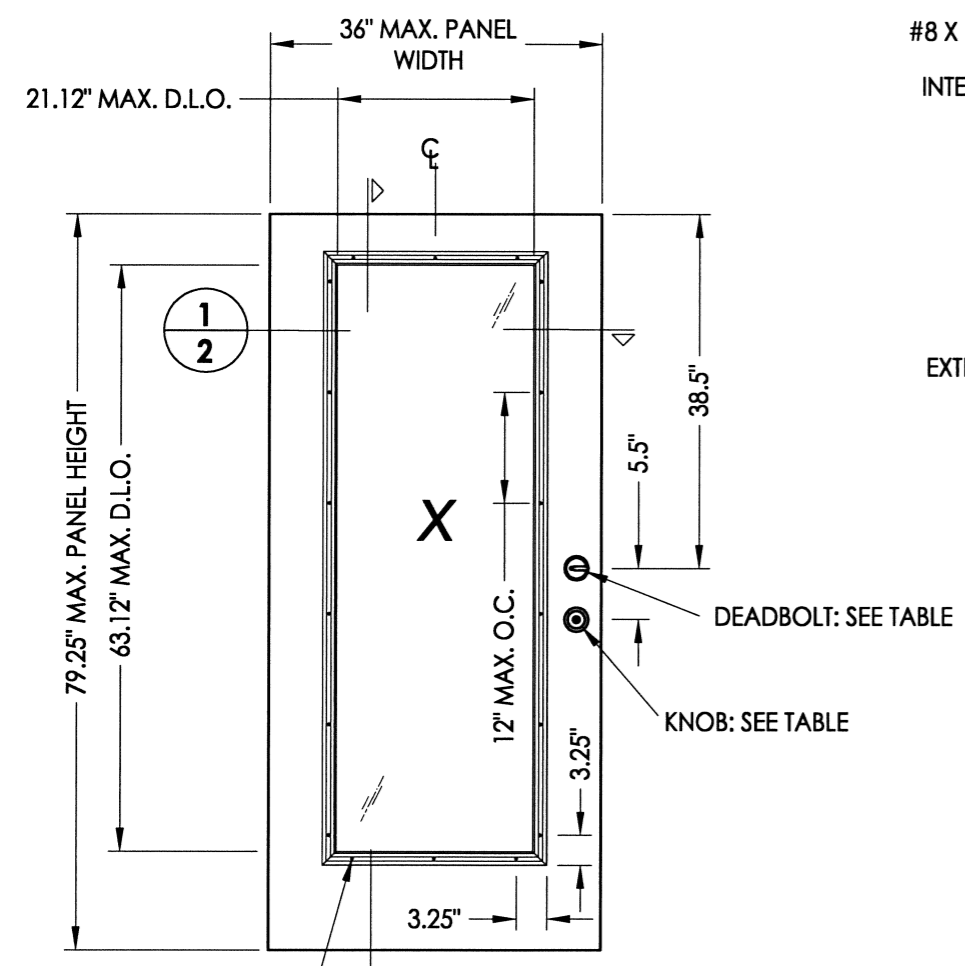
NO.	DATE	BY	REVISIONS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4263
SHEET 1 OF 12

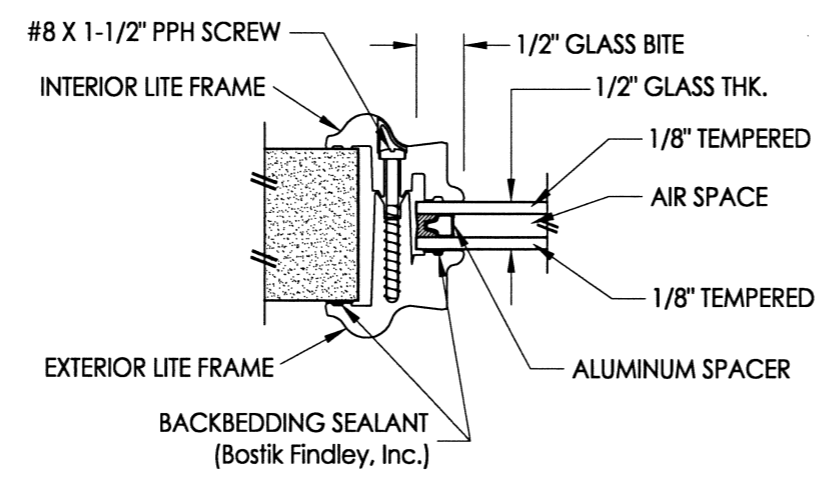
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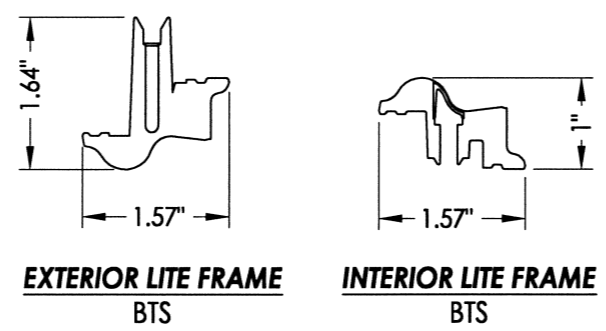
1
2 HORIZONTAL CROSS SECTION



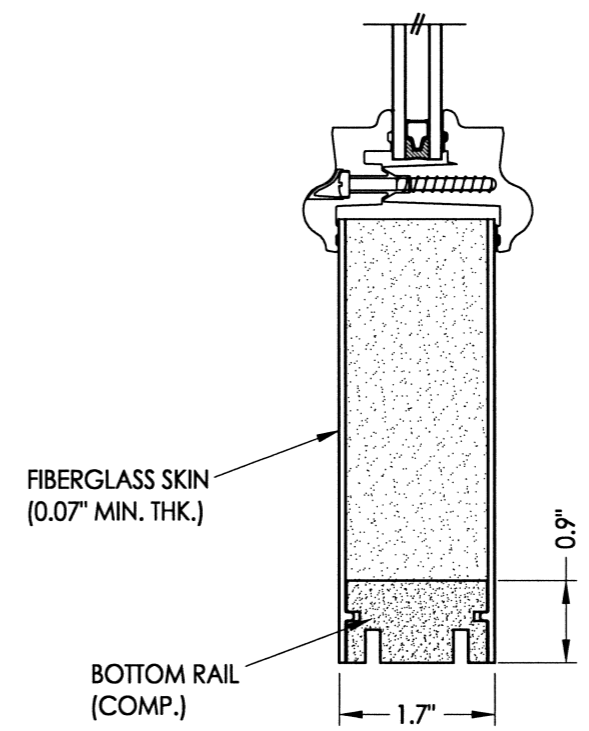
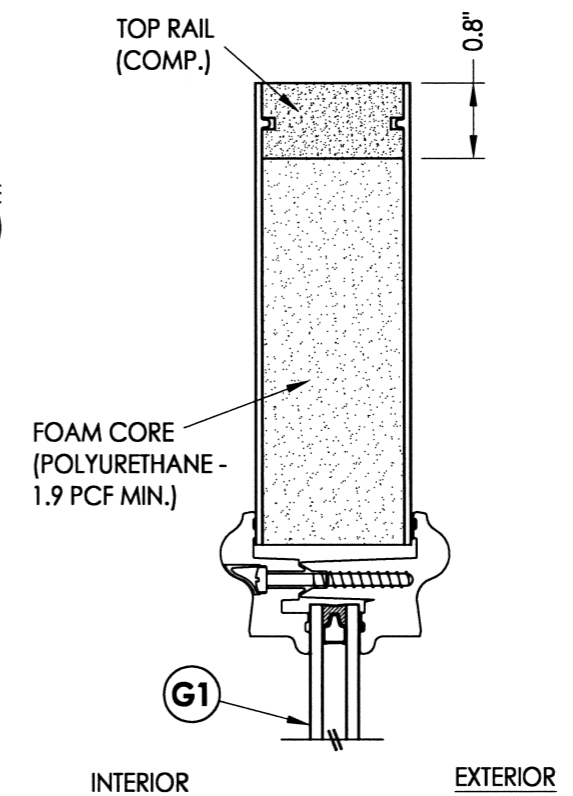
40 DOOR PANEL
Smooth Star/Fiber Classic



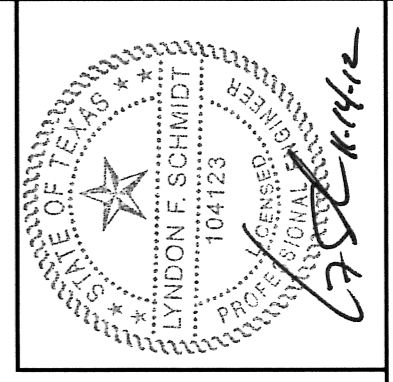
G1 GLAZING DETAIL
BTS Lip Lite Frame



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



2
2 VERTICAL CROSS SECTION



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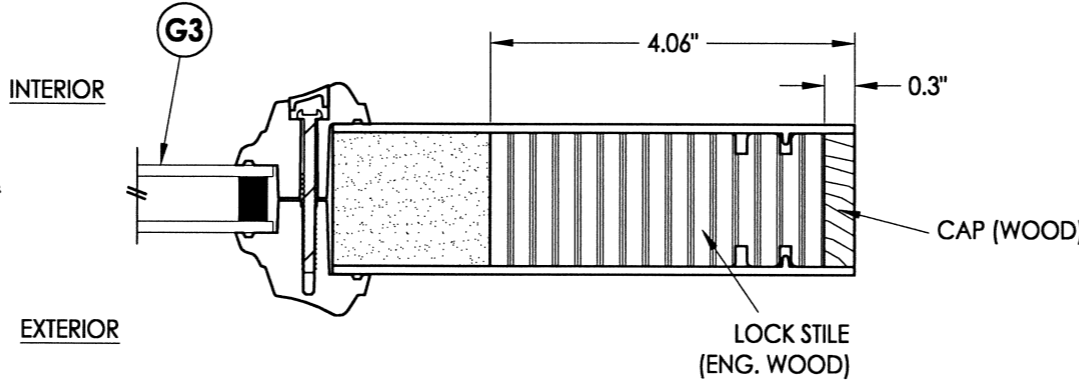
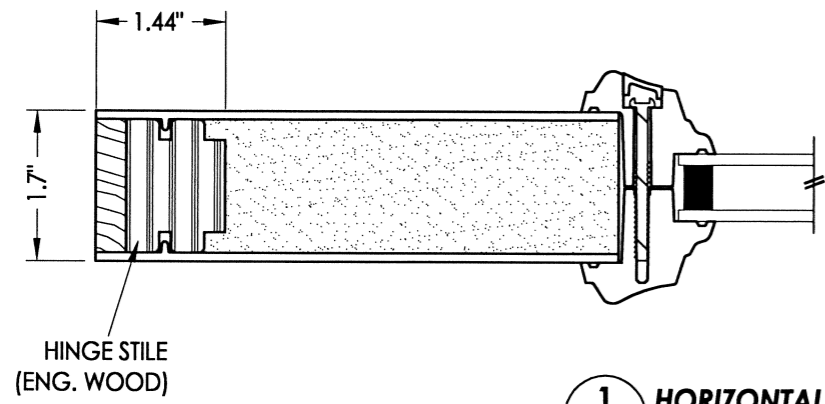
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

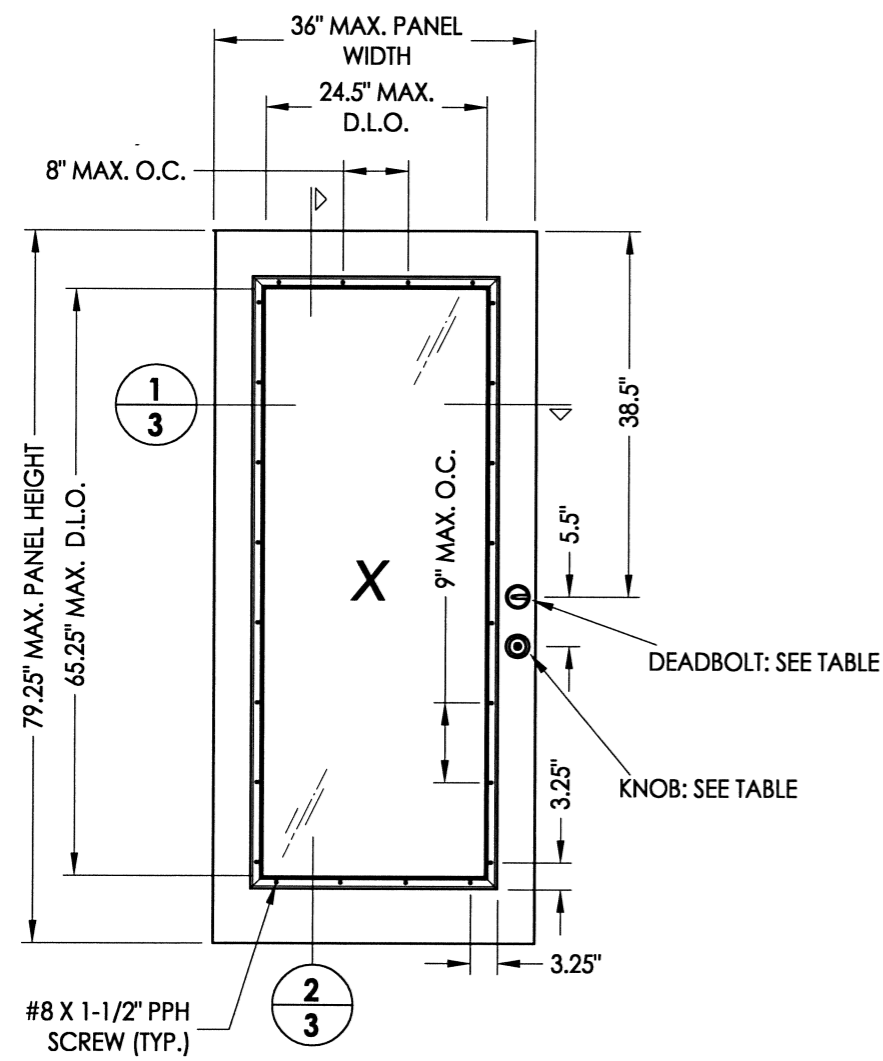
PART OR ASSEMBLY:
DOOR PANEL & GLAZING DETAIL
(SMOOTH STAR/FIBER CLASSIC)

NO.	DATE	BY	REVISIONS

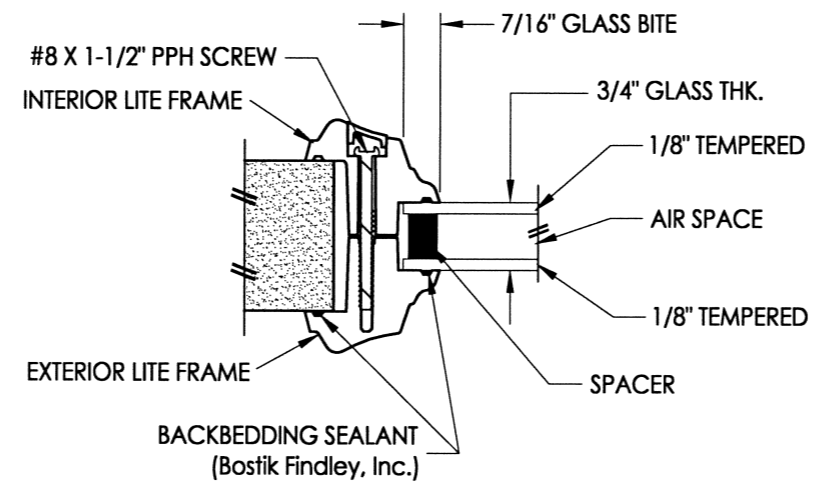
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4263
SHEET 2 OF 12



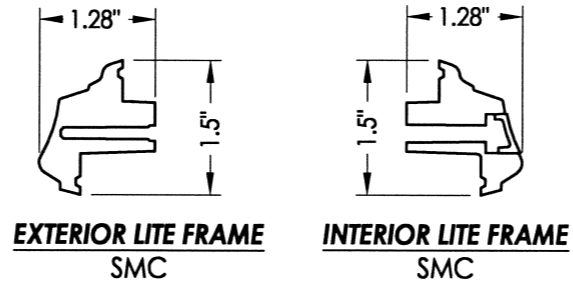
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3 HORIZONTAL CROSS SECTION



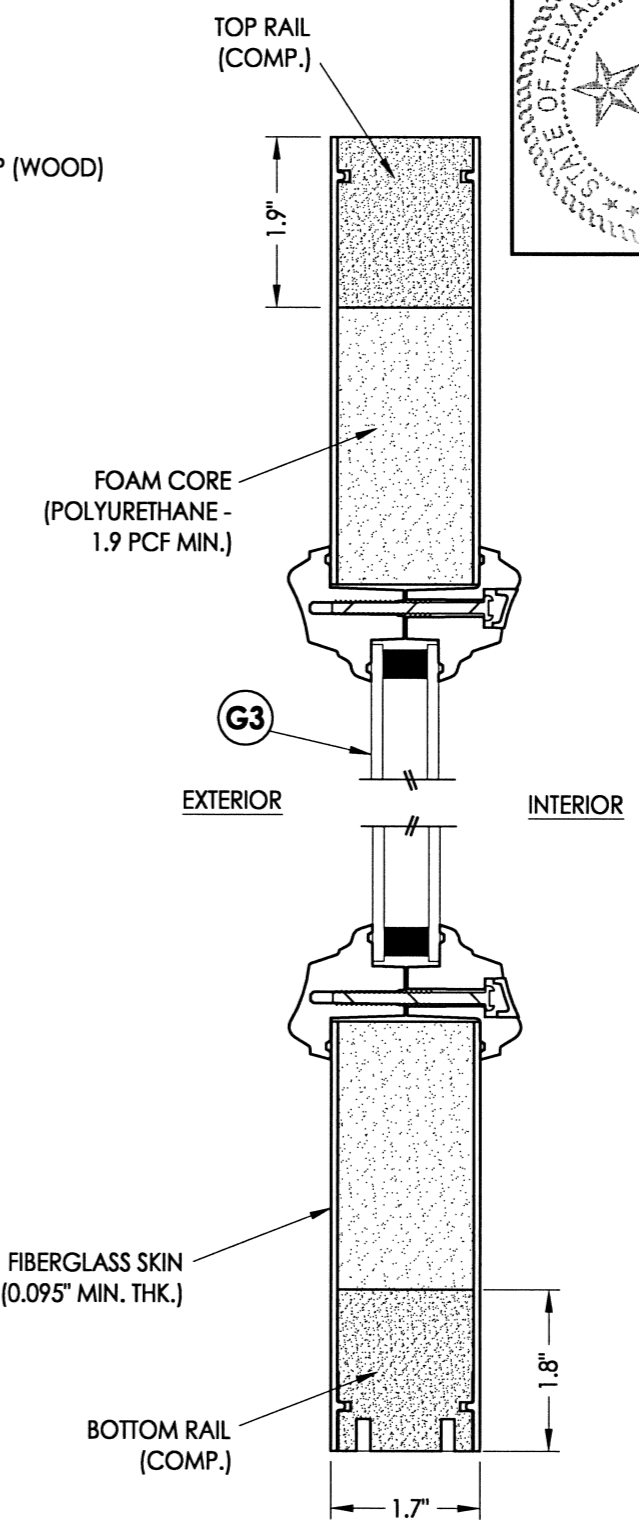
41 DOOR PANEL
Classic Craft



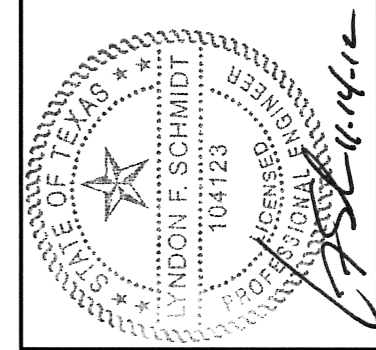
G3 GLAZING DETAIL
SMC Lip Lite Frame



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



2
3 VERTICAL CROSS SECTION



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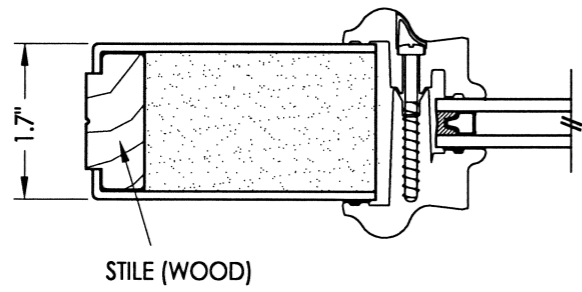
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

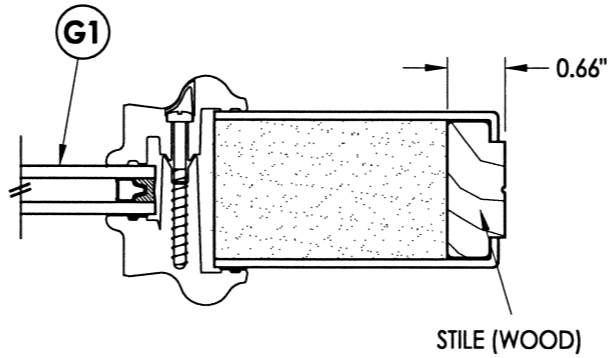
NO.	DATE	BY	REVISIONS

DATE: 10/08/12
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4263
SHEET 3 OF 12



STILE (WOOD)

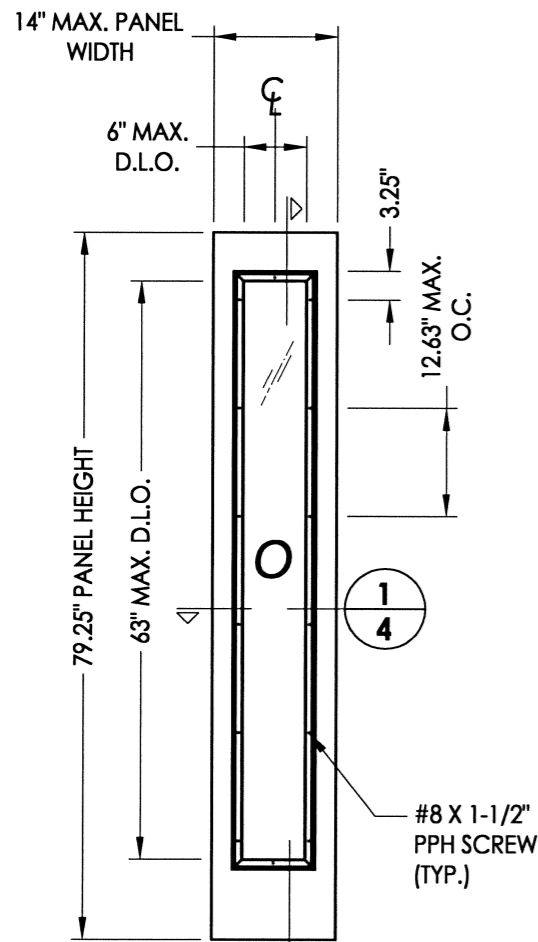
INTERIOR



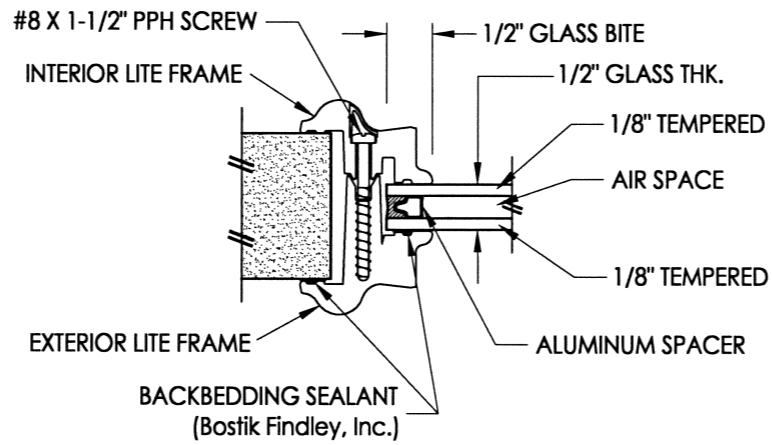
STILE (WOOD)

EXTERIOR

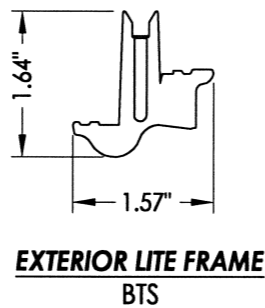
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3 HORIZONTAL CROSS SECTION



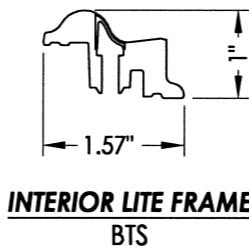
50 SIDELITE PANEL
Smooth Star/Fiber Classic



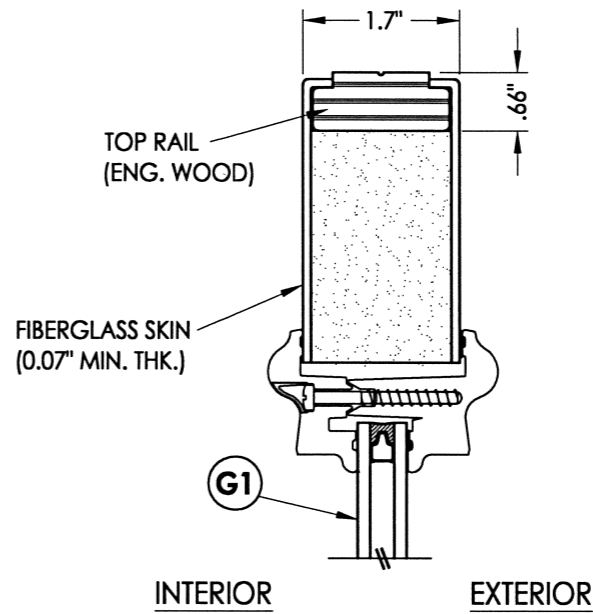
G1 GLAZING DETAIL
Lip Lite Frame



EXTERIOR LITE FRAME
BTS



INTERIOR LITE FRAME
BTS



TOP RAIL
(ENG. WOOD)

FIBERGLASS SKIN
(0.07" MIN. THK.)

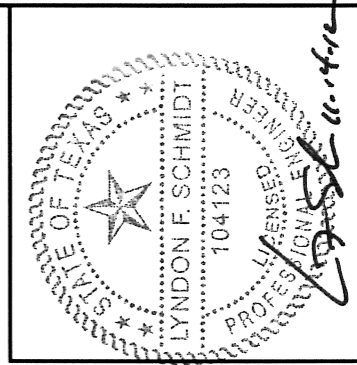
INTERIOR

EXTERIOR

FOAM CORE
(POLYURETHANE -
1.9 PCF MIN.)

BOTTOM RAIL
(ENG. WOOD)

2
4 VERTICAL CROSS SECTION



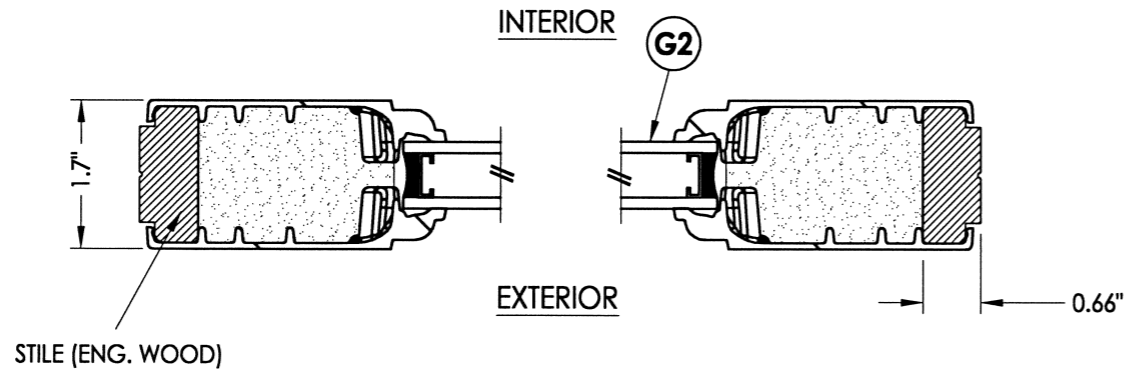
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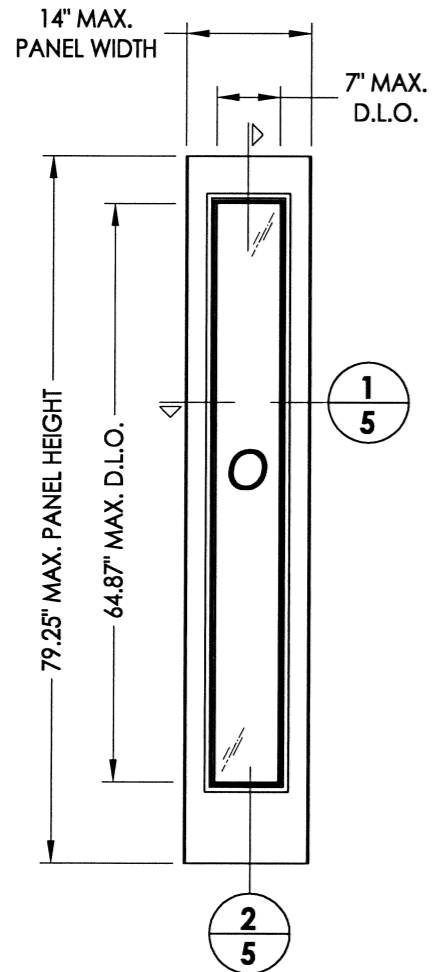
PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
SIDELITE PANEL & GLAZING DETAIL
(SMOOTH STAR/FIBER CLASSIC)

NO.	DATE	BY	REVISIONS

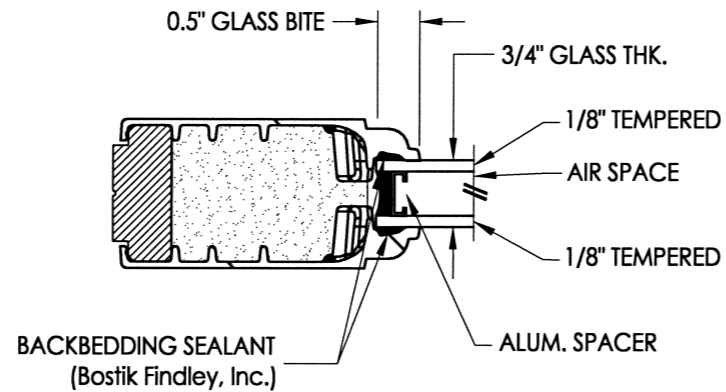
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4263
SHEET 4 OF 12



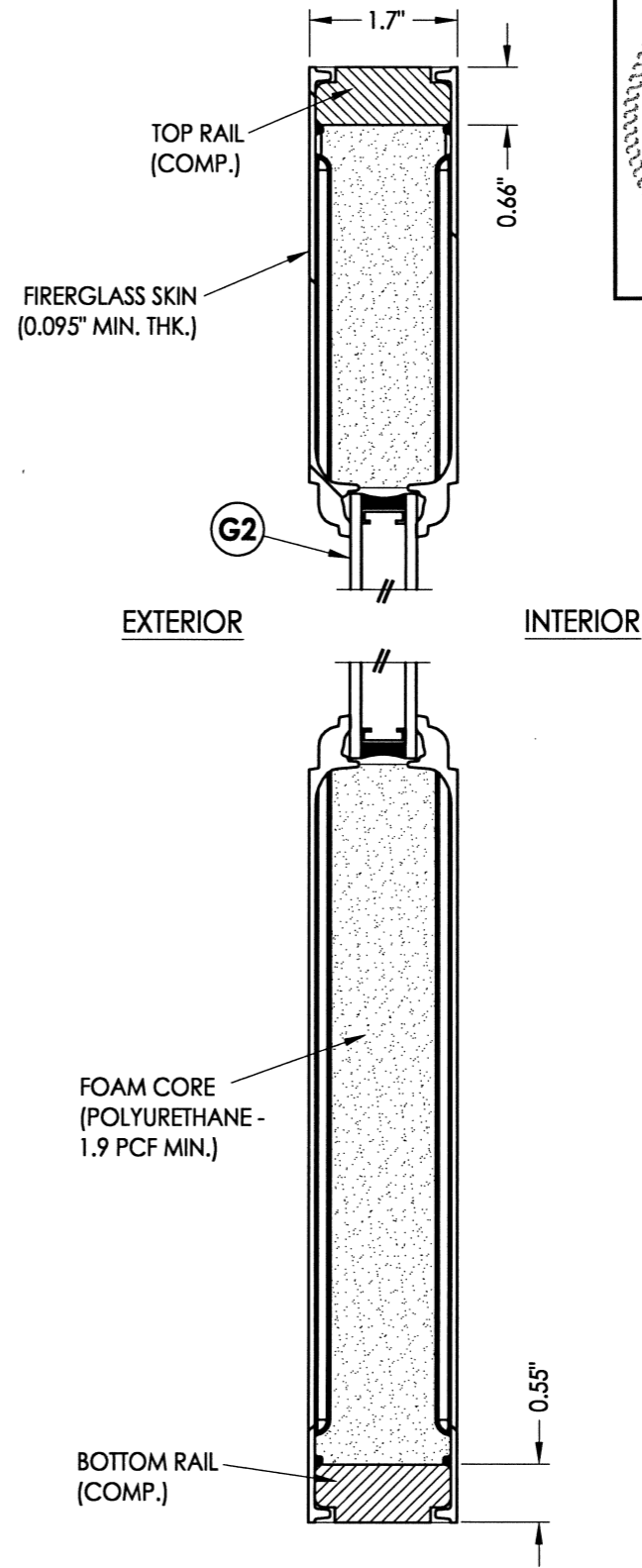
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5 HORIZONTAL CROSS SECTION



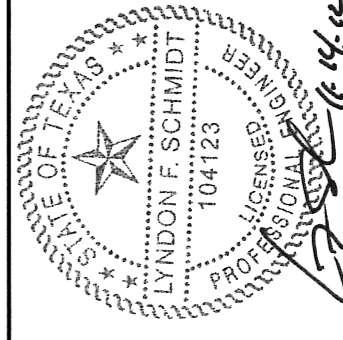
51 SIDELITE PANEL
Classic Craft



G2 GLAZING DETAIL
Flush Glazed



2
5 VERTICAL CROSS SECTION



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PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS	BY

DATE: 10/08/12

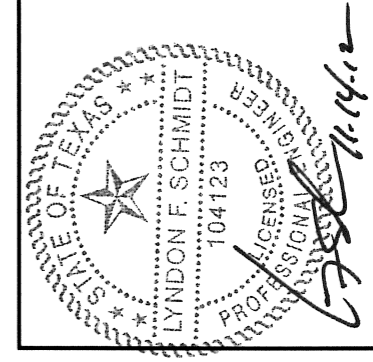
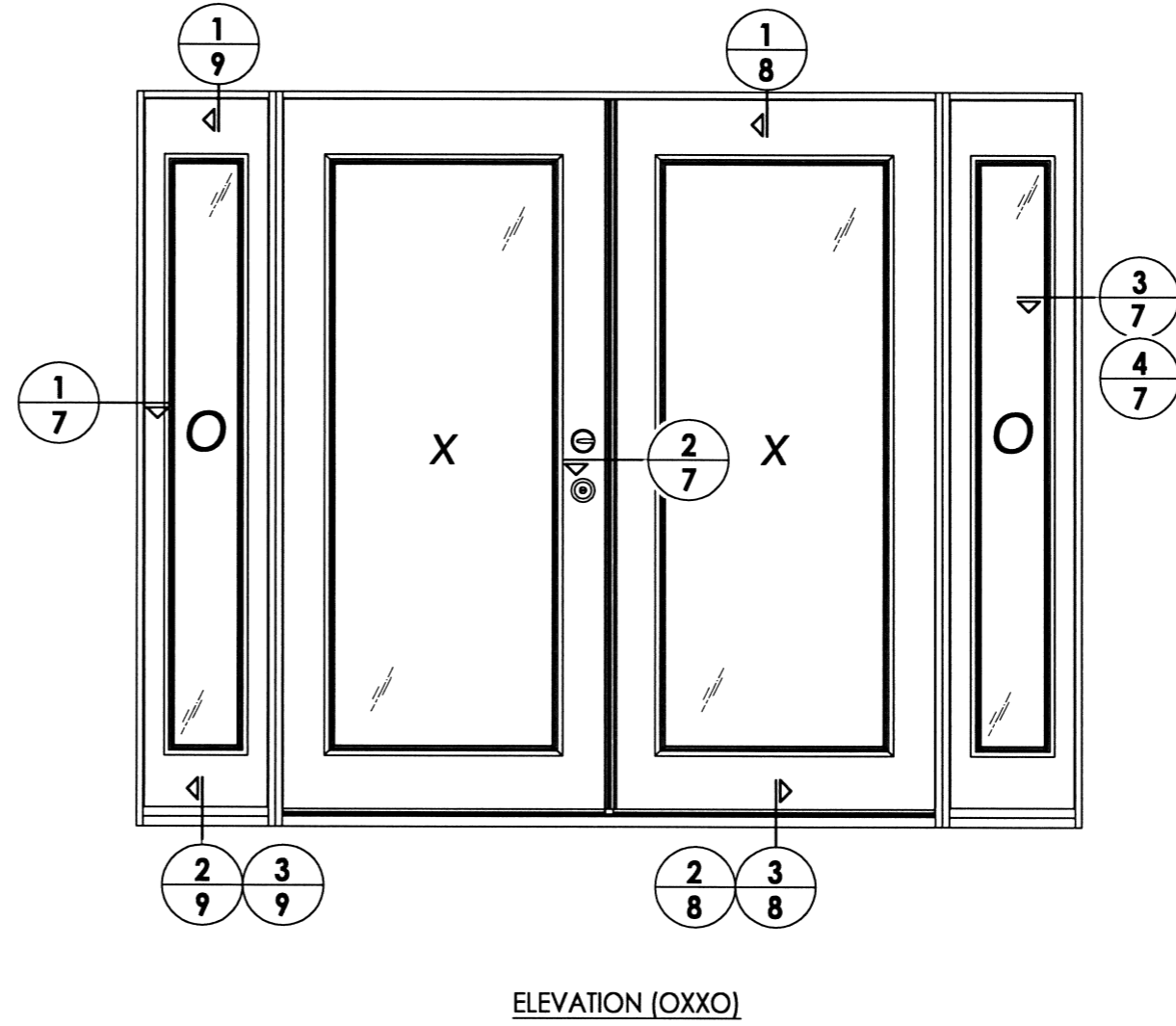
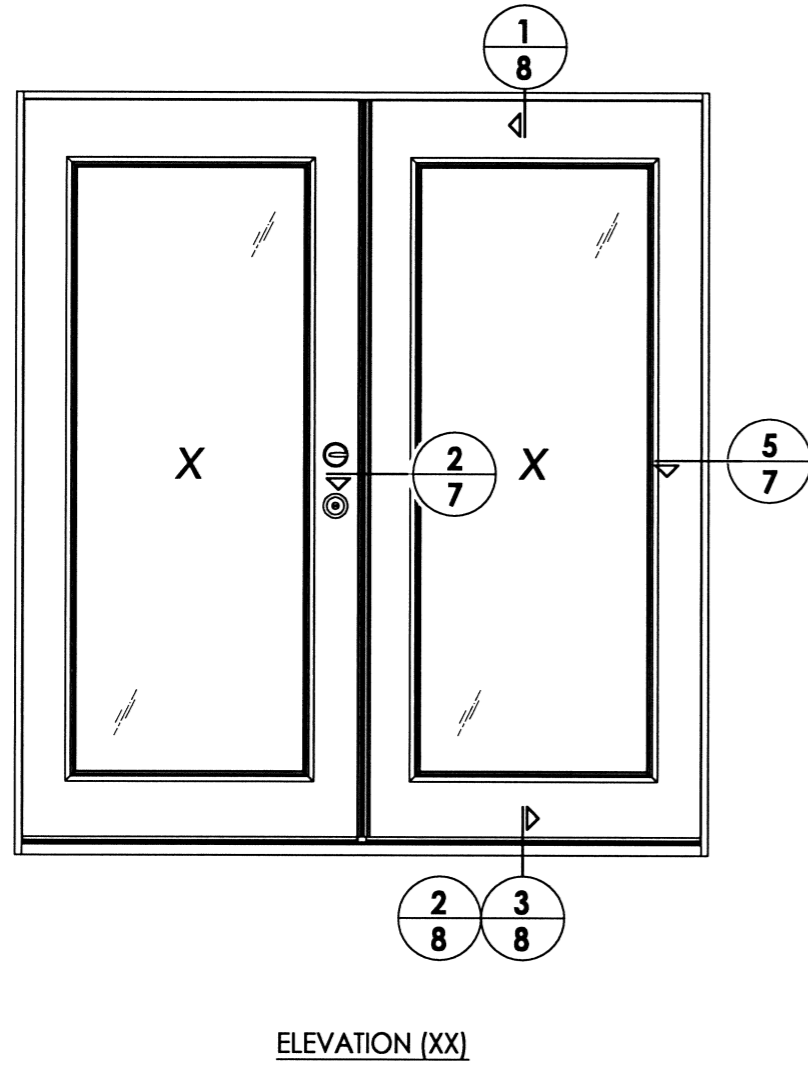
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4263

SHEET 5 OF 12



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CERTIFICATE OF REGISTRATION # F-11852

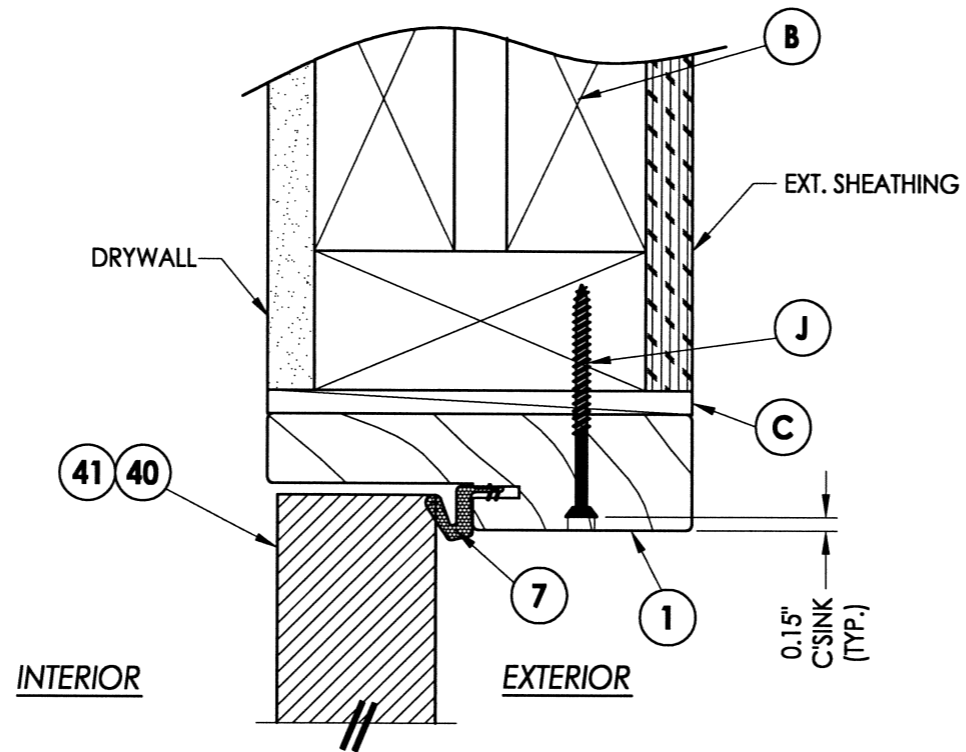
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

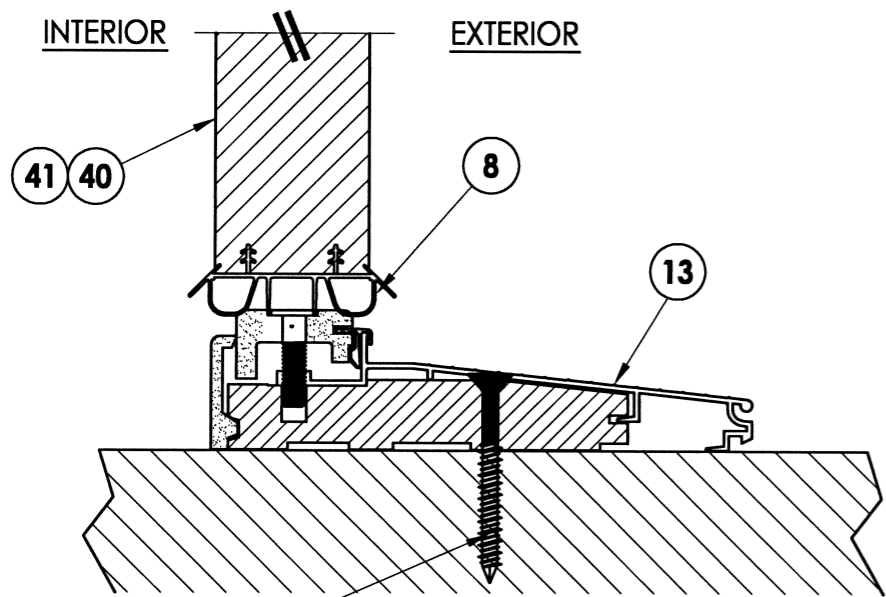
NO.	DATE	REVISIONS	BY

DATE: 10/08/12
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SHEET 6 OF 12

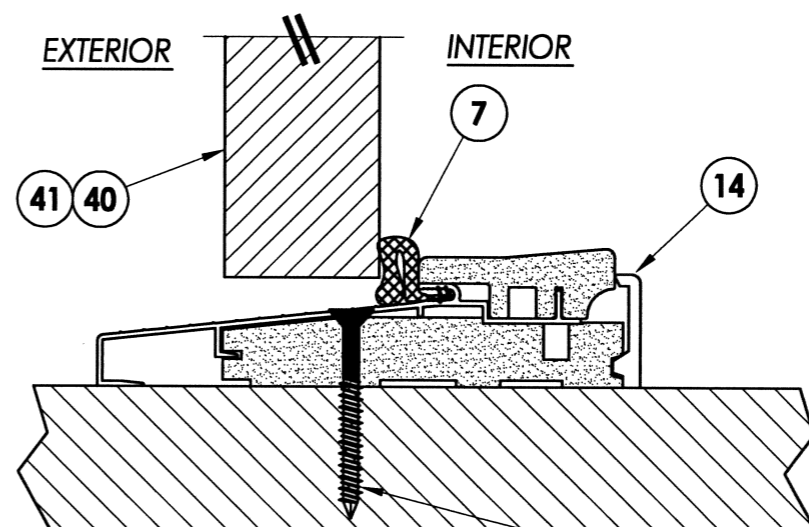
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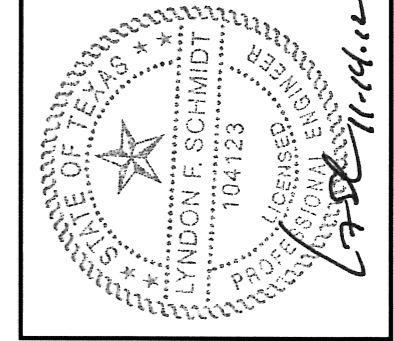
1 VERTICAL CROSS SECTION
8 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
8 Inswing configuration



3 VERTICAL CROSS SECTION
8 Outswing configuration



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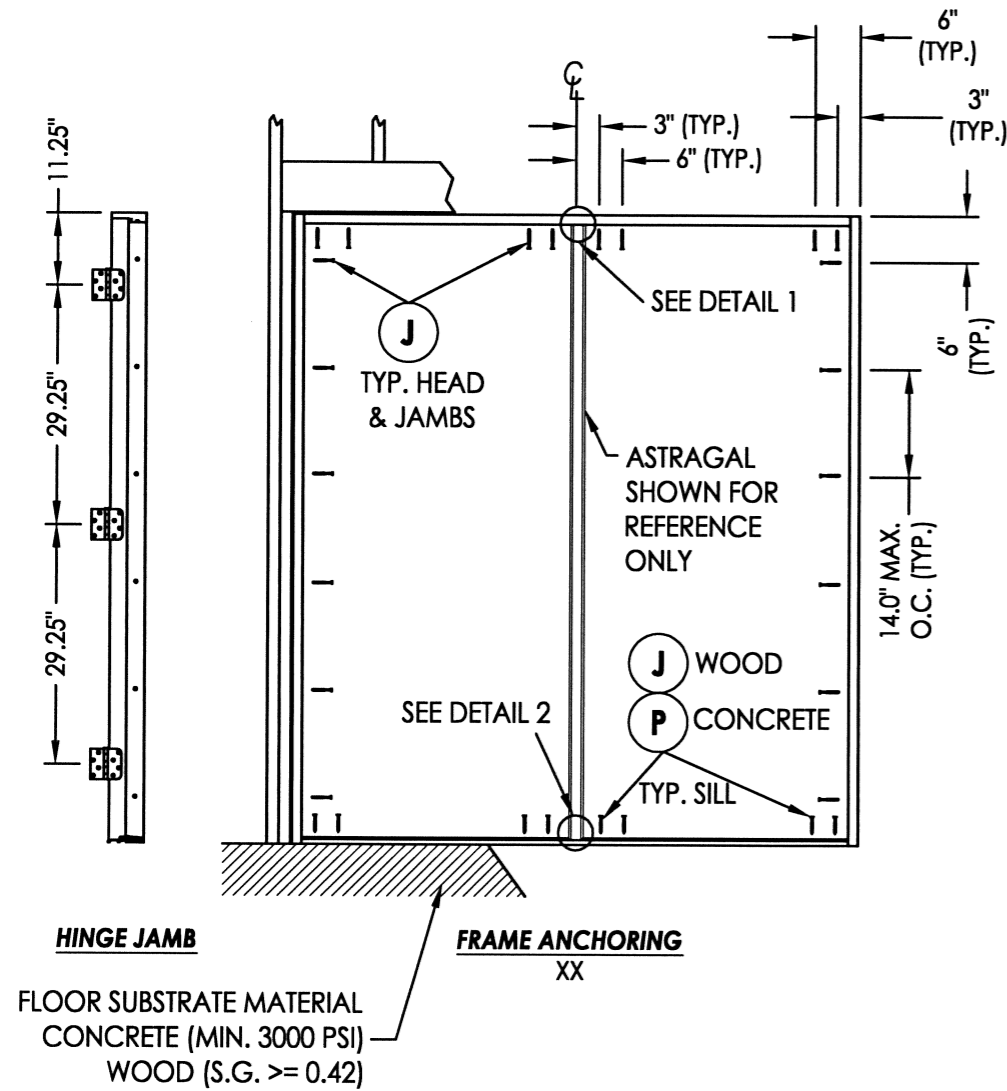
TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

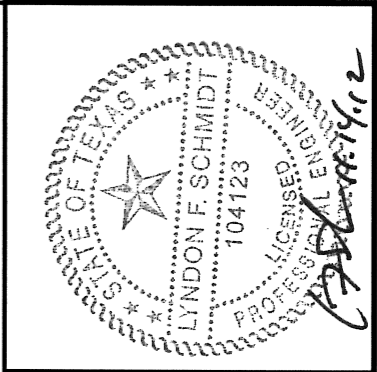
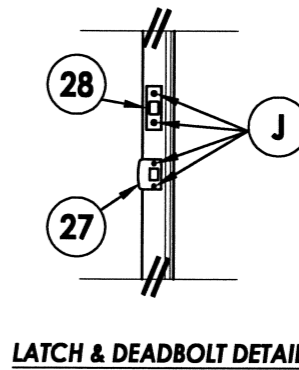
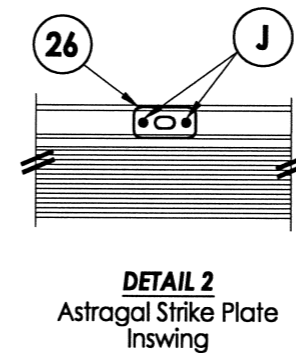
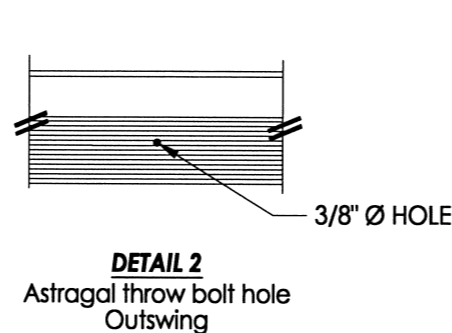
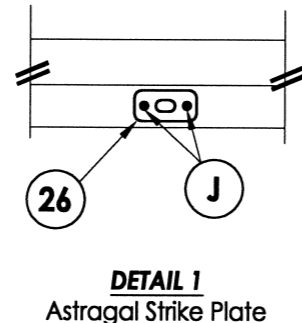
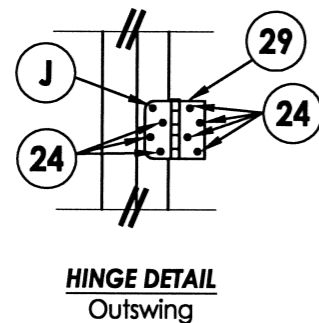
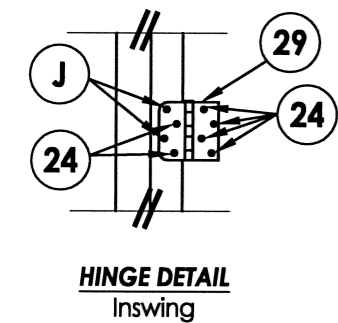
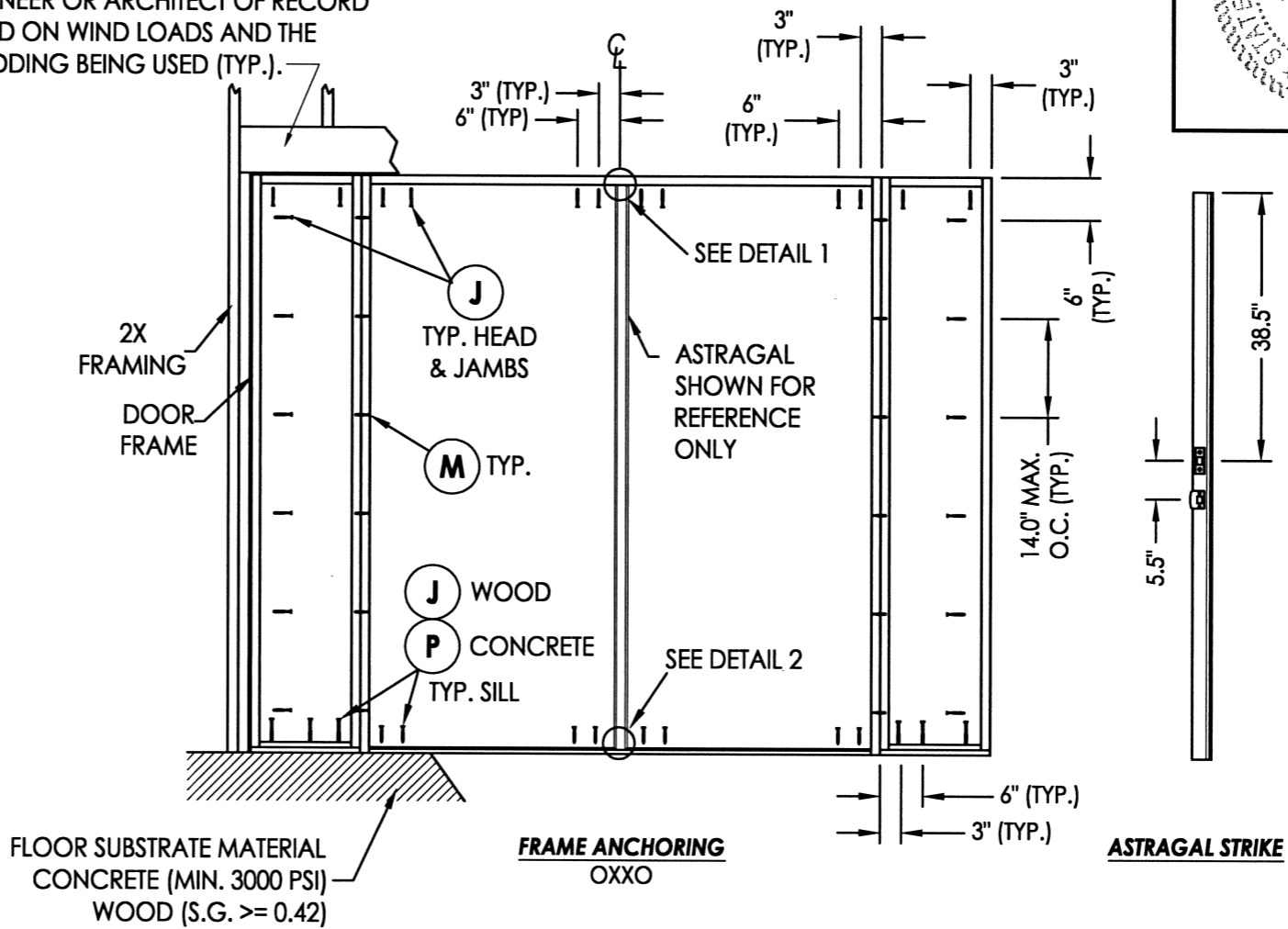
NO.	DATE	BY	REVISIONS

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

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



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

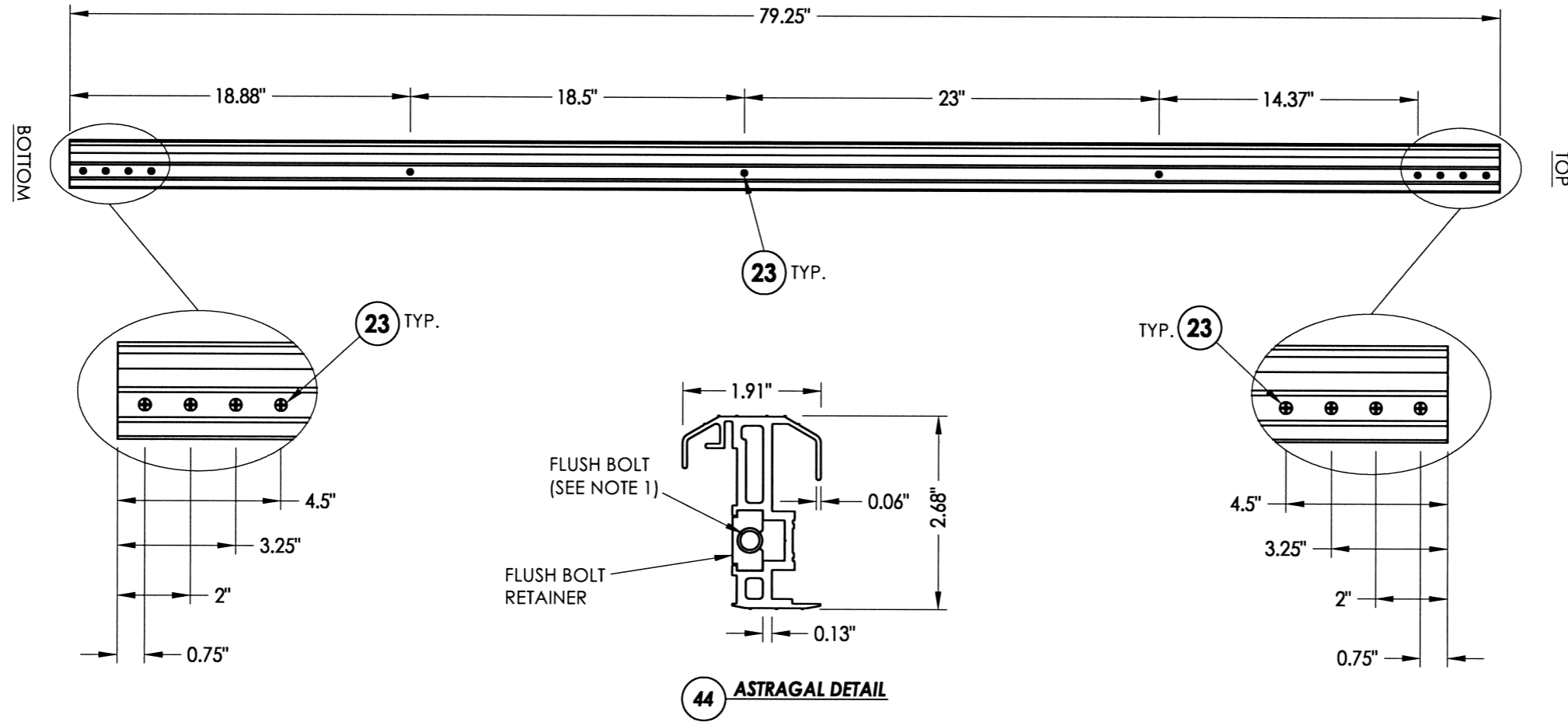
PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY	REVISIONS

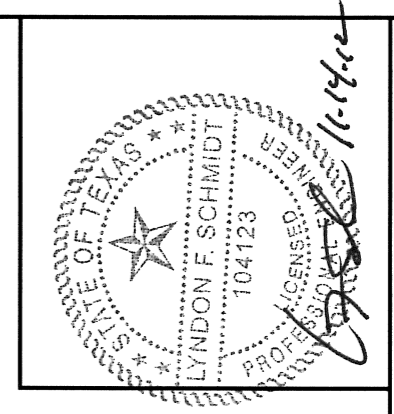
DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4263
SHEET 10 OF 12

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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

REVISIONS		NO.	DATE	BY

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

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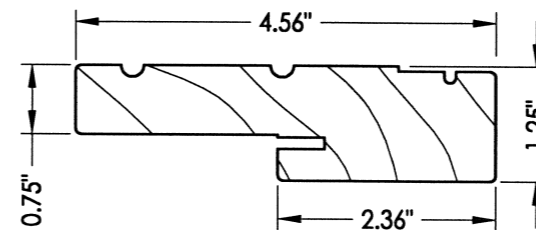
BILL OF MATERIALS

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	-
50	SIDELITE PANEL (SMOOTH STAR/FIBER CLASSIC)	-
51	SIDELITE PANEL (CLASSIC CRAFT)	-
65	INSWING SIDELITE ADAPTER	PVC
66	OUTSWING SIDELITE ADAPTER	PVC

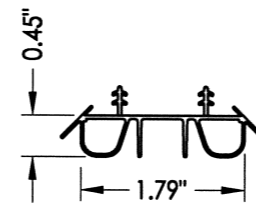
CONCRETE ANCHOR NOTES:

- 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:

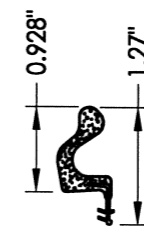
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



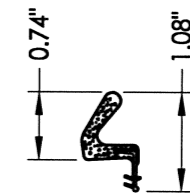
1 WOOD JAMB



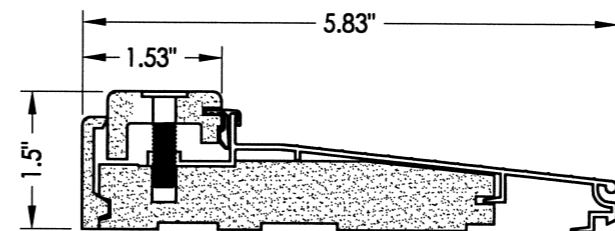
8 SWEEP



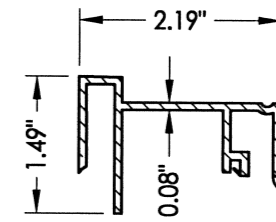
7 WEATHERSTRIP Long Reach



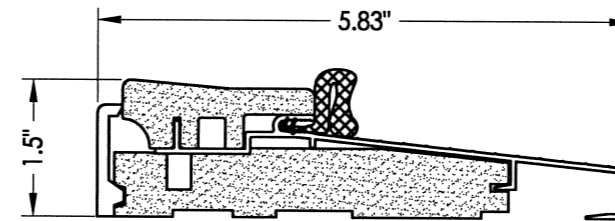
9 WEATHERSTRIP Medium Reach



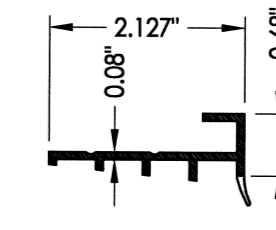
13 INSWING THRESHOLD



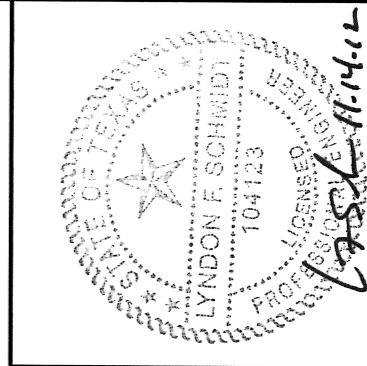
65 INSWING SIDELITE ADAPTER



14 OUTSWING THRESHOLD



66 OUTSWING SIDELITE ADAPTER



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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: 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-4263
SHEET 12 OF 12