THERMA TRU®
THERMA TRU DOORS
118 INDUSTRIAL DR., EDGERTON, OH 43517

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

Opaque 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.
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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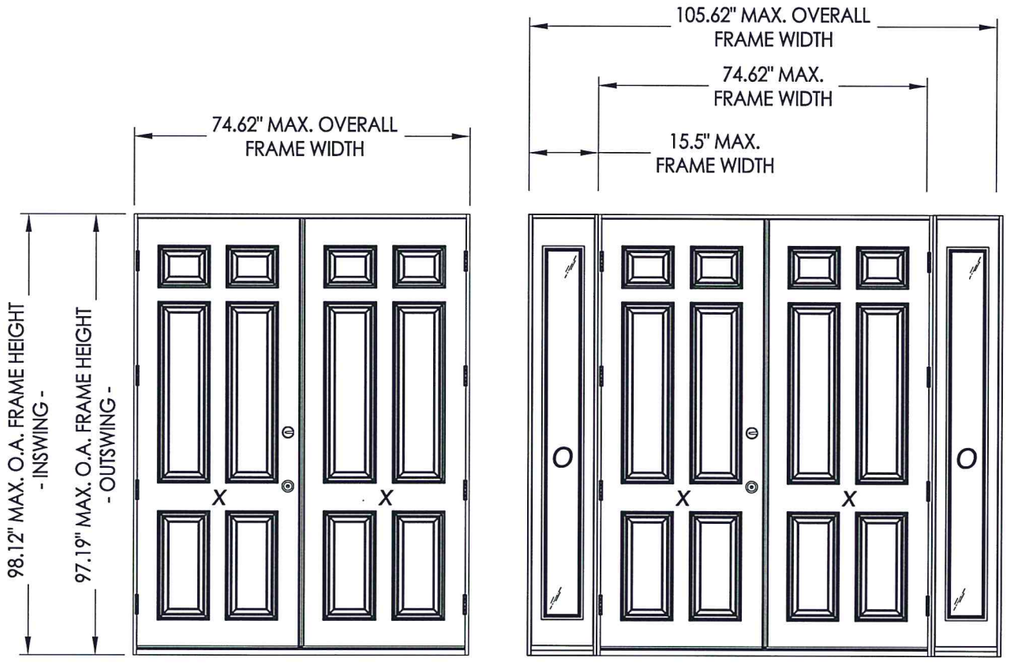
12	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	SWING	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
XX	74.62" x 98.12"	INSWING	+50.0	-55.0
	74.62" x97.19"	OUTSWING	+50.0	-55.0
OXXO	105.62" x 98.12"	INSWING	+50.0	-55.0
	105.62" x 97.19"	OUTSWING	+50.0	-55.0

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER
7.22.15

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

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

PRODUCT: THERMA-TRU FIBERGLASS DOOR

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

REVISIONS

NO.	DATE	BY
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-4261
SHEET 1 OF 12

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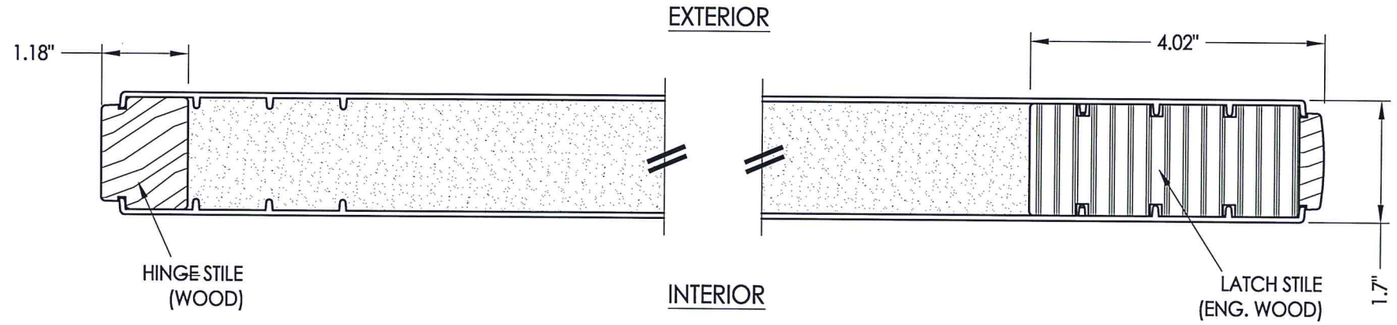
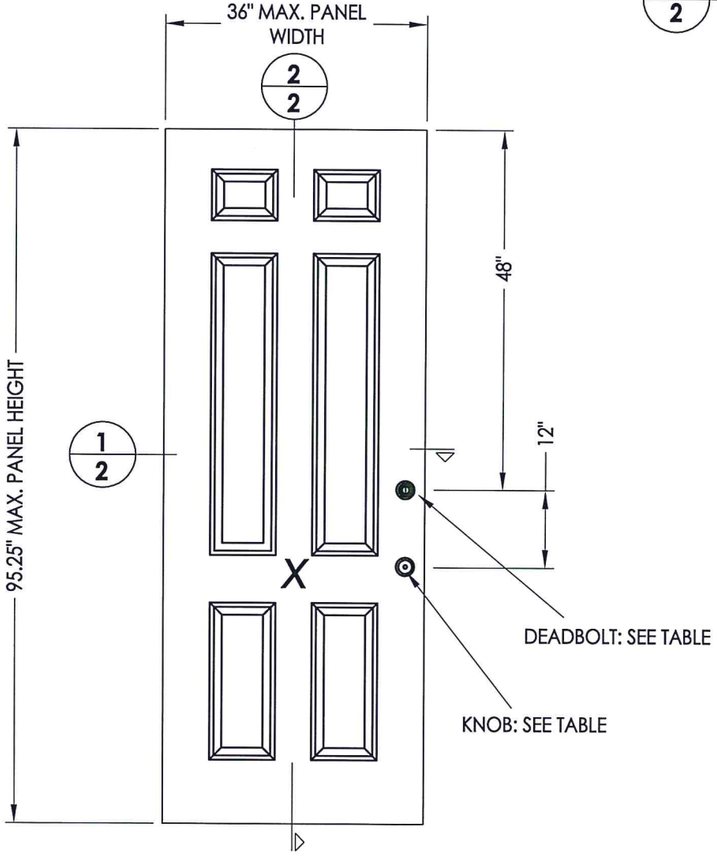
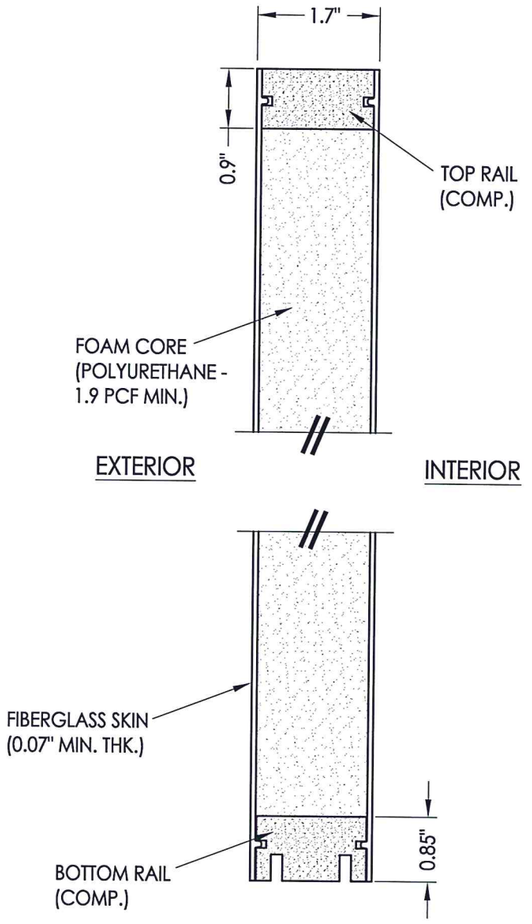


1/2 **HORIZONTAL CROSS SECTION**



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



2/2 **VERTICAL CROSS SECTION**

ASSOCIATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7.22.15

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

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *DOOR PANEL DETAILS*

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

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
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DRAWING NO.: TX-4261
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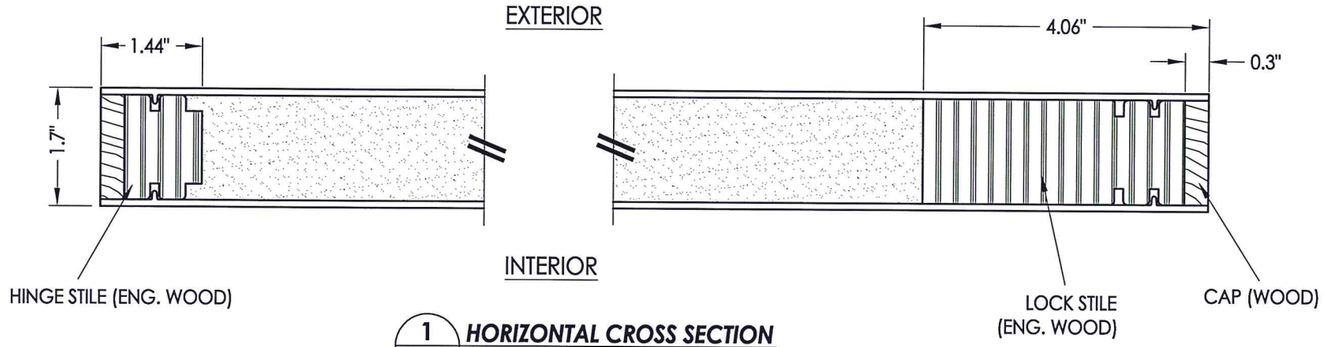

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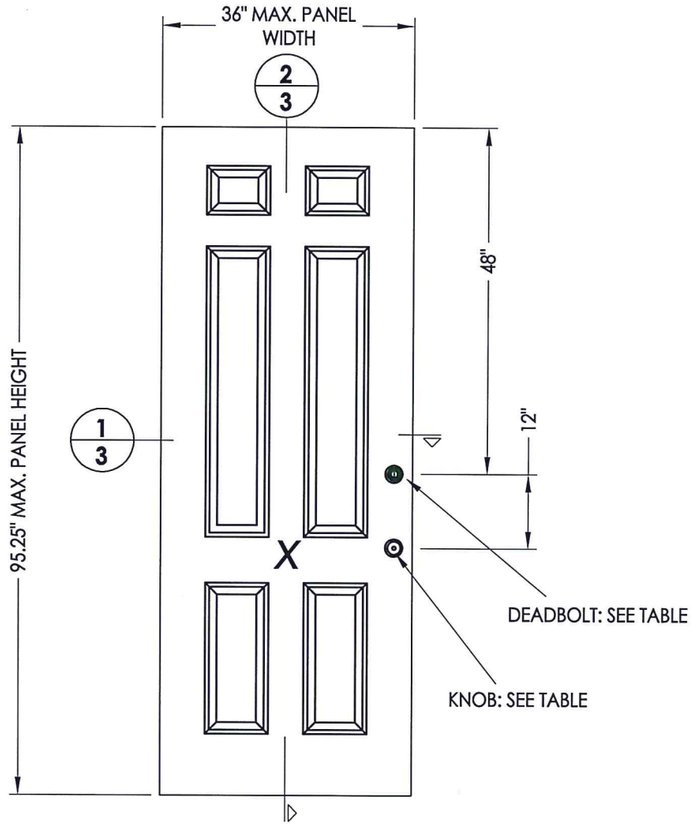
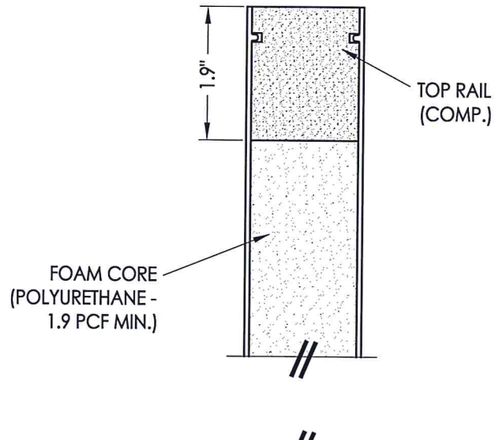
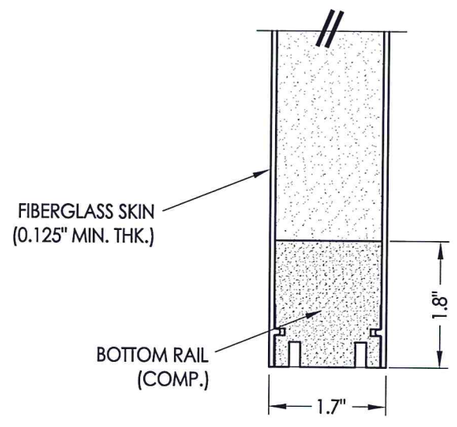


41 **DOOR PANEL**
Classic Craft

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





2/3 **VERTICAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *DOOR PANEL DETAILS*

NO.	DATE	BY
1	7/22/15	LFS

ADDED GENERAL NOTE 5.

REVISIONS

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4261
SHEET 3 OF 12

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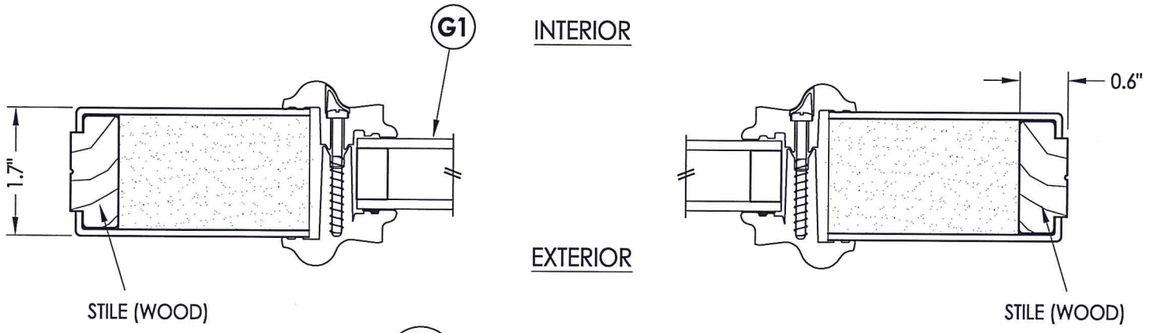
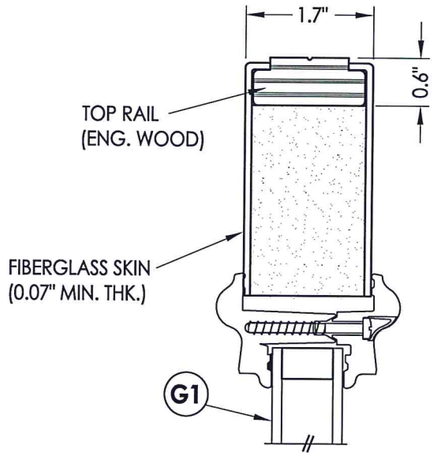
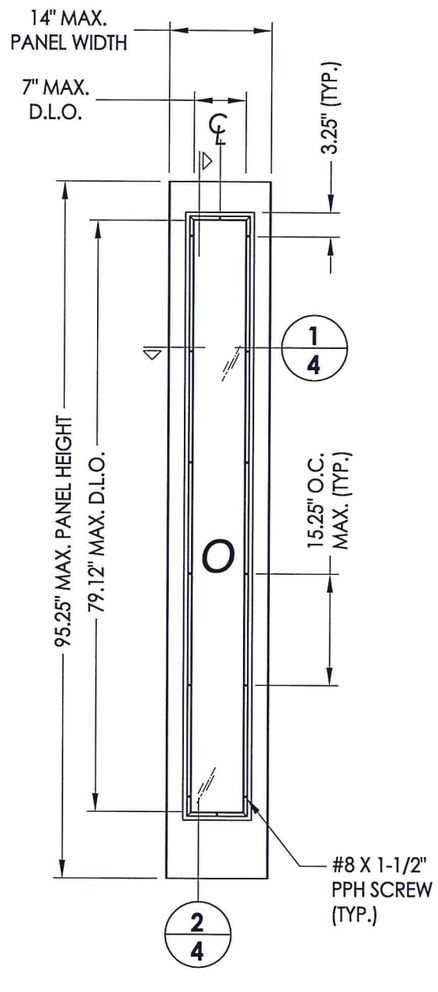
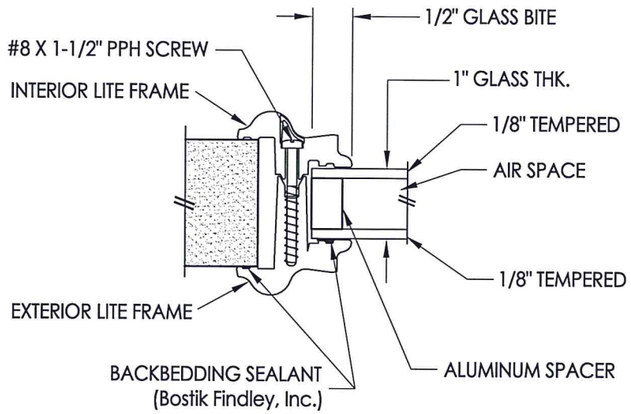


1/3 **HORIZONTAL CROSS SECTION**

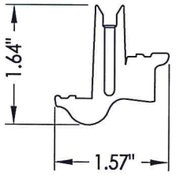




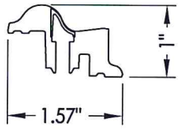
50 **SIDELITE PANEL**
Smooth Star/Fiber Classic



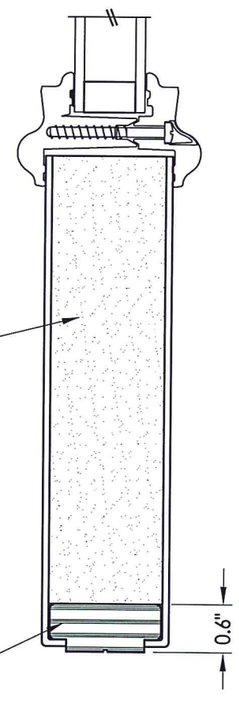
G1 **GLAZING DETAIL**
BTS Lip Lite Frame



EXTERIOR LITE FRAME
BTS



INTERIOR LITE FRAME
BTS



2/4 **VERTICAL CROSS SECTION**

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

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

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

NO.	DATE	REVISIONS	BY
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-4261
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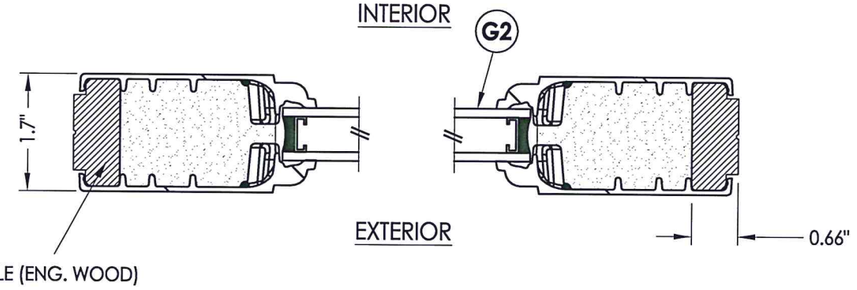
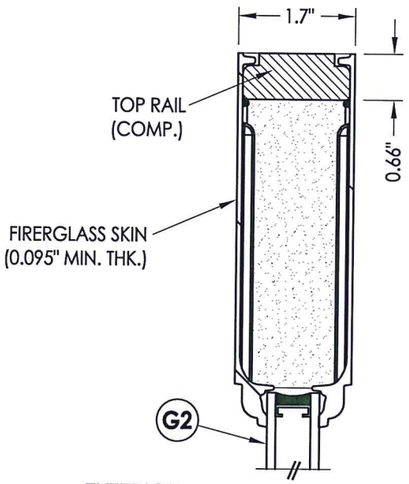
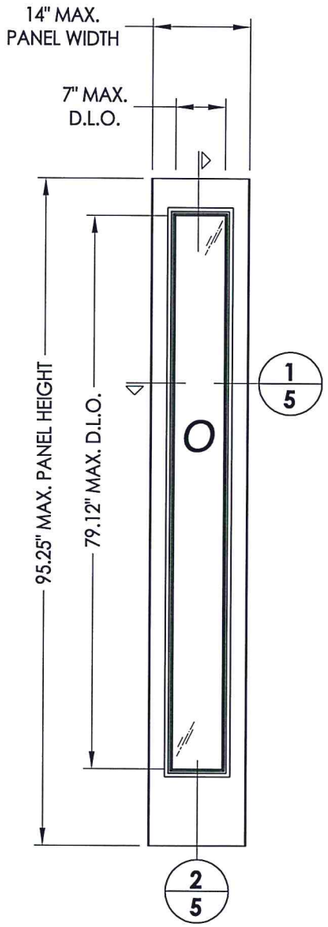
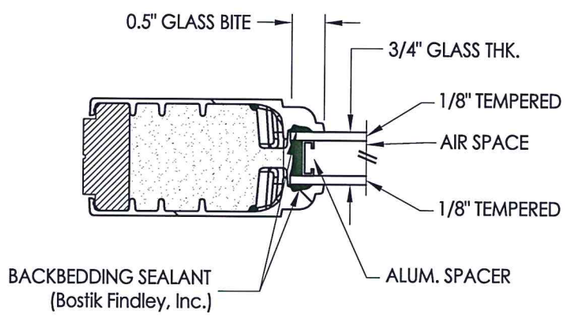


1/5 **HORIZONTAL CROSS SECTION**

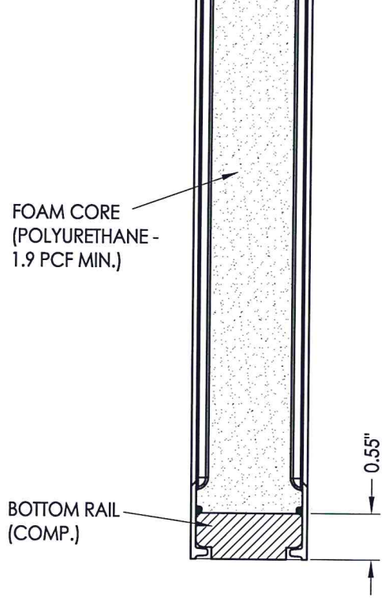




51 **SIDELITE PANEL**
Classic Craft



G2 **GLAZING DETAIL**
Flush Glazed



2/5 **VERTICAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
7-22-12

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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: SIDELITE PANEL & GLAZING DETAIL (CLASSIC CRAFT)

NO.	DATE	REVISIONS	BY
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-4261
SHEET 5 OF 12

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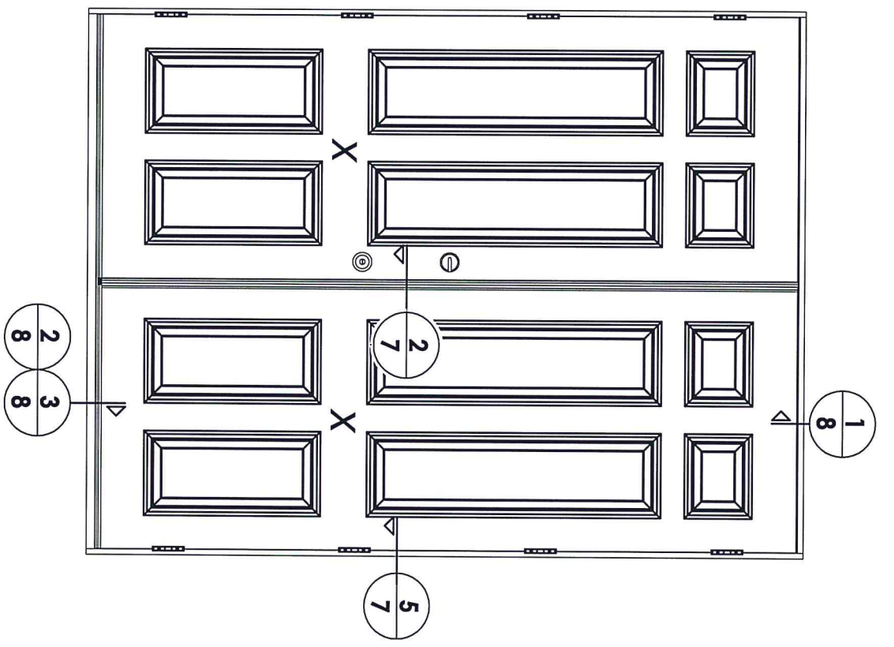
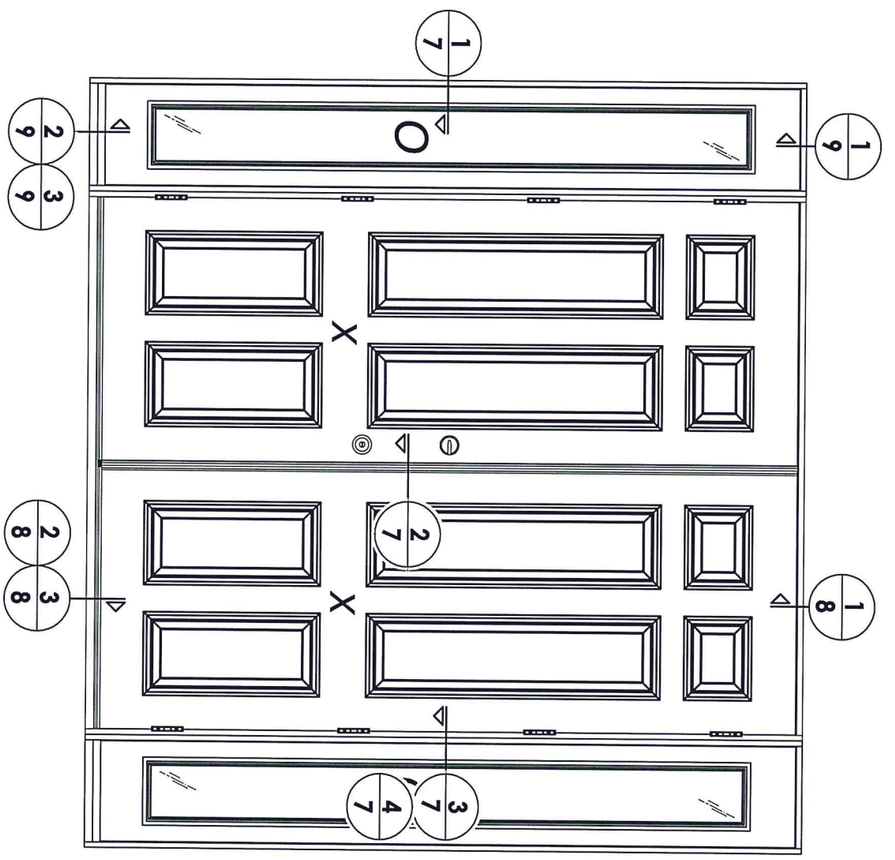
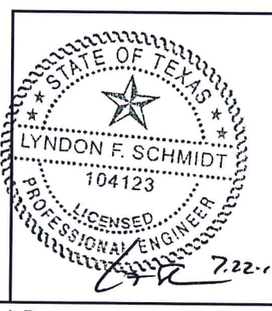
ELEVATION (XX)



ELEVATION (OXXO)





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

PRODUCT:
THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

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CERTIFICATE OF REGISTRATION # F-11852

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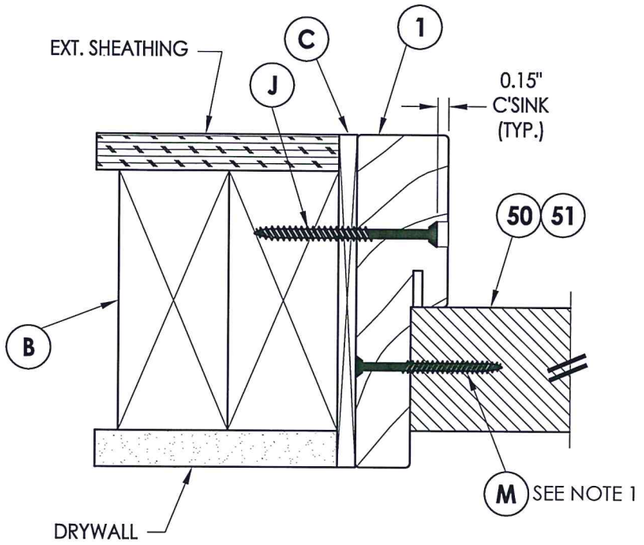
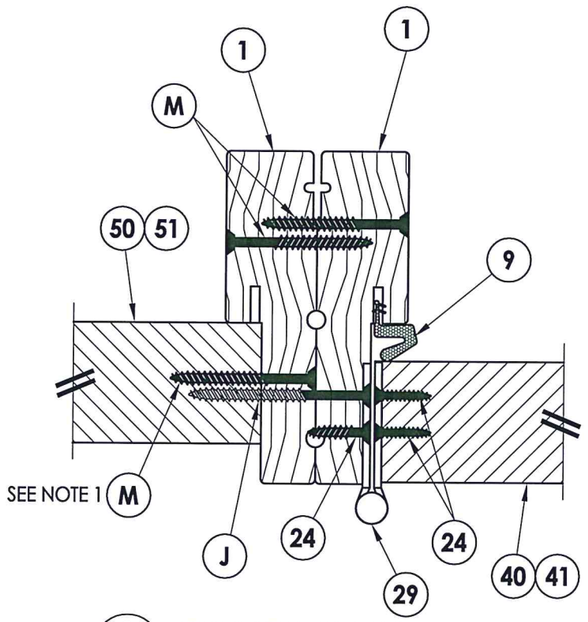


EXTERIOR

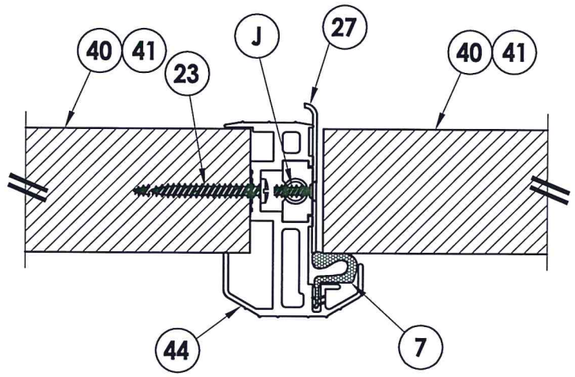
INTERIOR

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



3/7 HORIZONTAL CROSS SECTION
Inswing shown

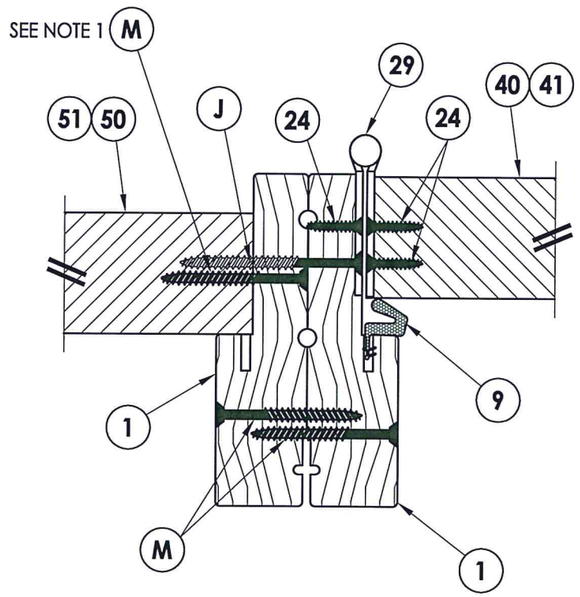
Note:
1. Sidelite assembly screws located 6" from each end plus 4 more equally spaced (6 total).



EXTERIOR

INTERIOR

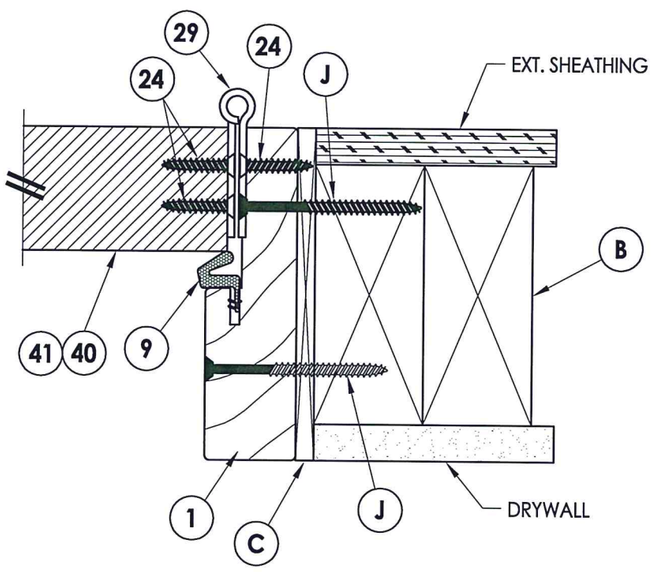
2/7 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



4/7 HORIZONTAL CROSS SECTION
Outswing shown

EXTERIOR

INTERIOR



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

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Documents Prepared By: Lyndon F. Schmidt, P.E.
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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

NO.	DATE	REVISIONS	BY
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-4261
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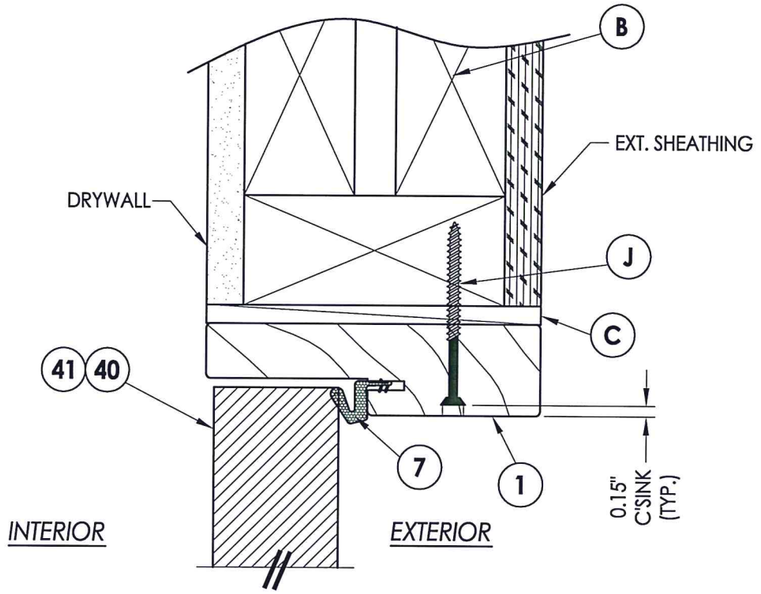
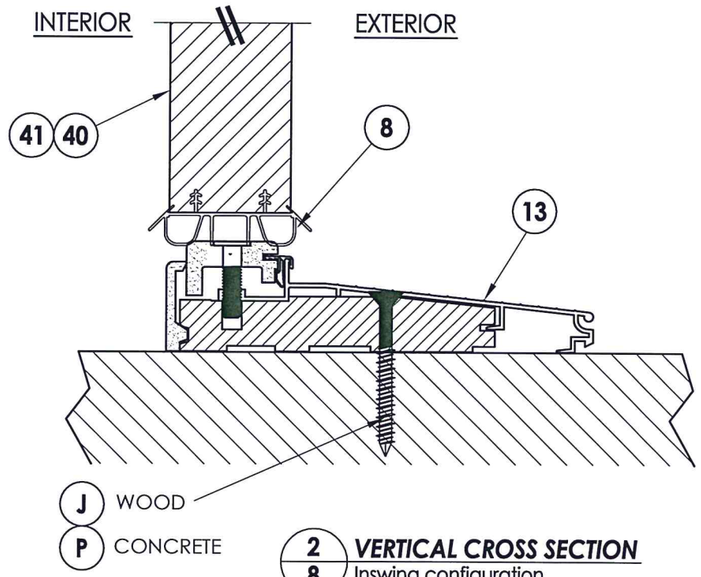
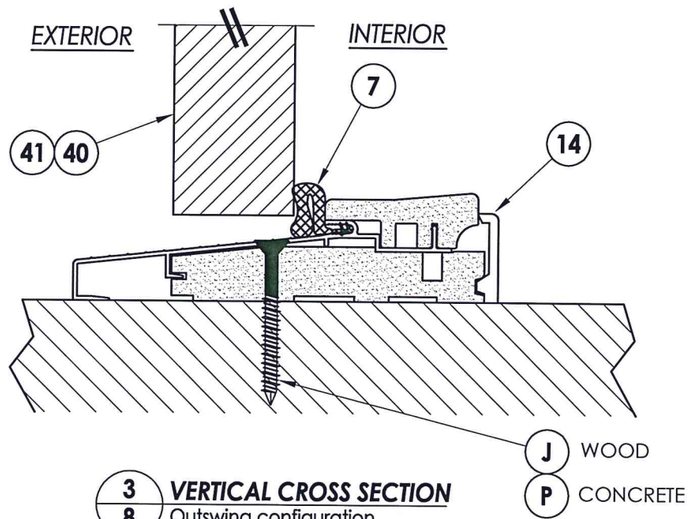


1/8 **VERTICAL CROSS SECTION**
Inswing shown - Outswing also approved



2/8 **VERTICAL CROSS SECTION**
Inswing configuration



3/8 **VERTICAL CROSS SECTION**
Outswing configuration

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
7.22.15

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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
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-4261
SHEET 8 OF 12

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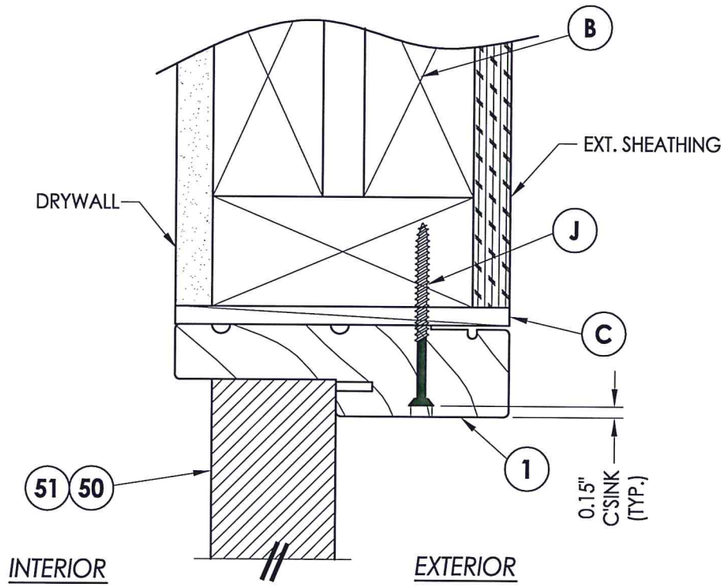
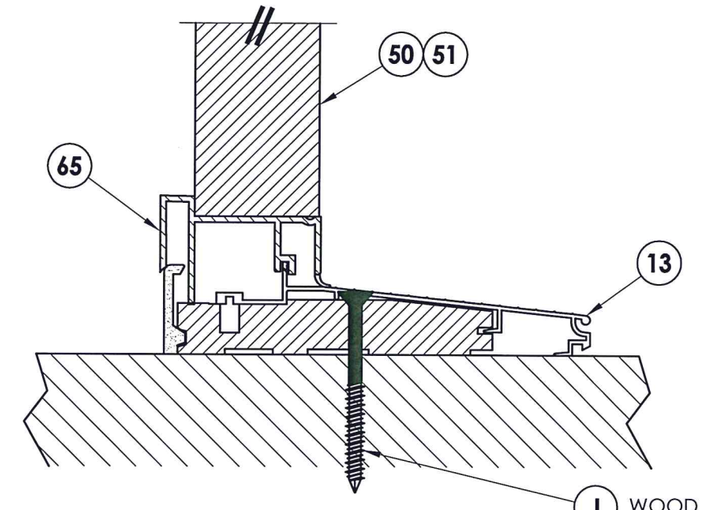
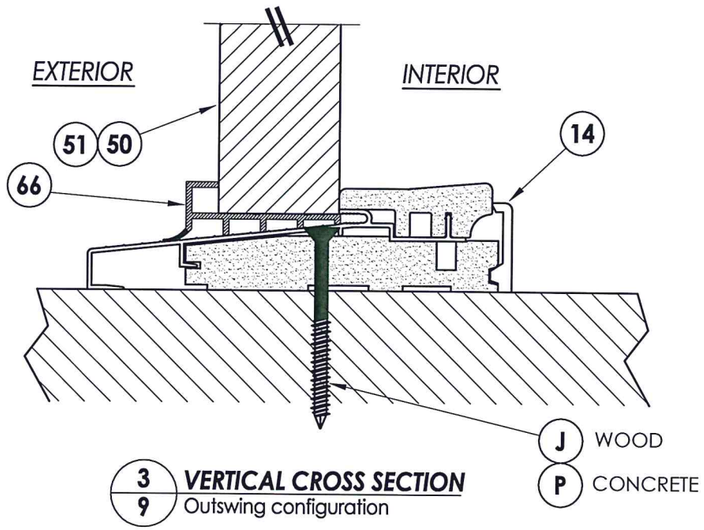


1/9 **VERTICAL CROSS SECTION**
Inswing shown - Outswing also approved



2/9 **VERTICAL CROSS SECTION**
Inswing configuration



3/9 **VERTICAL CROSS SECTION**
Outswing configuration

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7.22.15

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

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
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-4261
SHEET 9 OF 12

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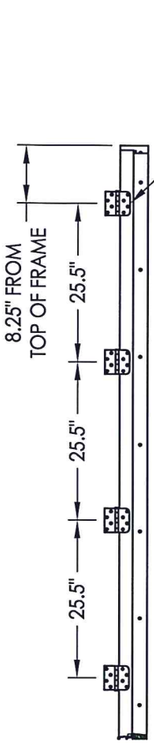
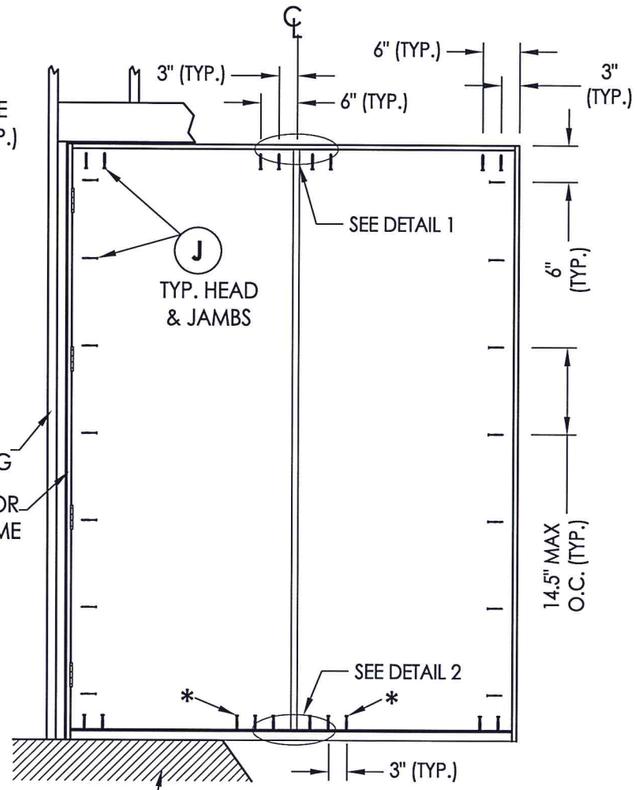


SEE HINGE DETAIL (TYP.)

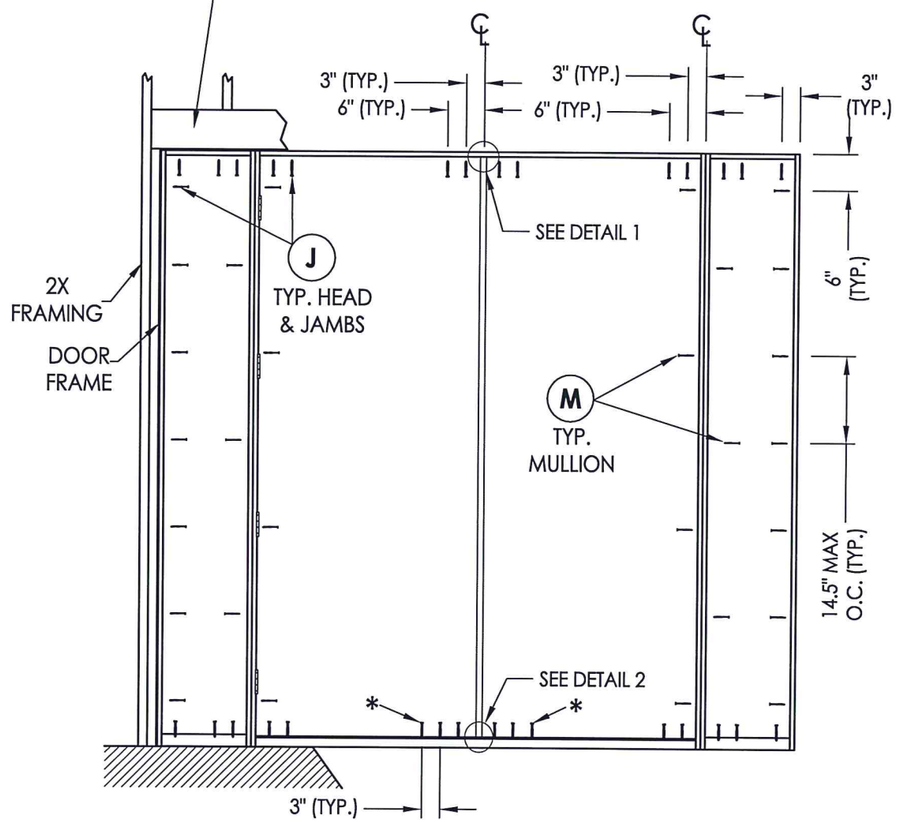
HINGE JAMB



FRAME ANCHORING
XX

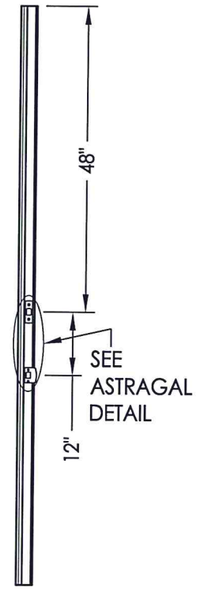
FLOOR SUBSTRATE MATERIAL (TYP.)
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

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

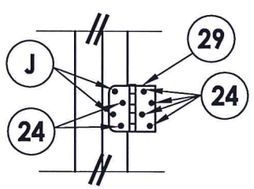


FRAME ANCHORING
OXXO

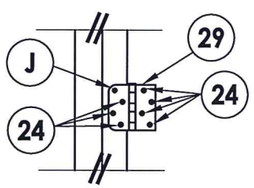
*This anchor required for D.P > 40 psf.



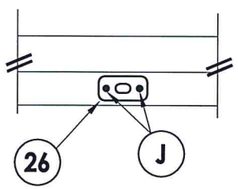
ASTRAGAL STRIKE



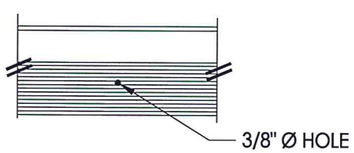
HINGE DETAIL
Inswing



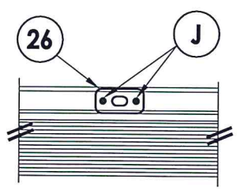
HINGE DETAIL
Outswing



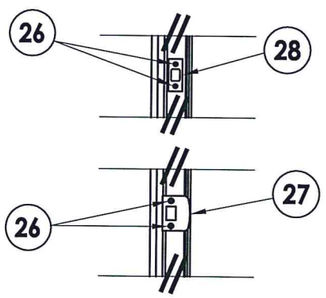
DETAIL 1
Astragal Strike Plate



DETAIL 2
Astragal throw bolt hole
Outswing



DETAIL 2
Astragal Strike Plate
Inswing



ASTRAGAL DETAIL
@ Strike

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7.22.15

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
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS	BY
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-4261
SHEET 10 OF 12

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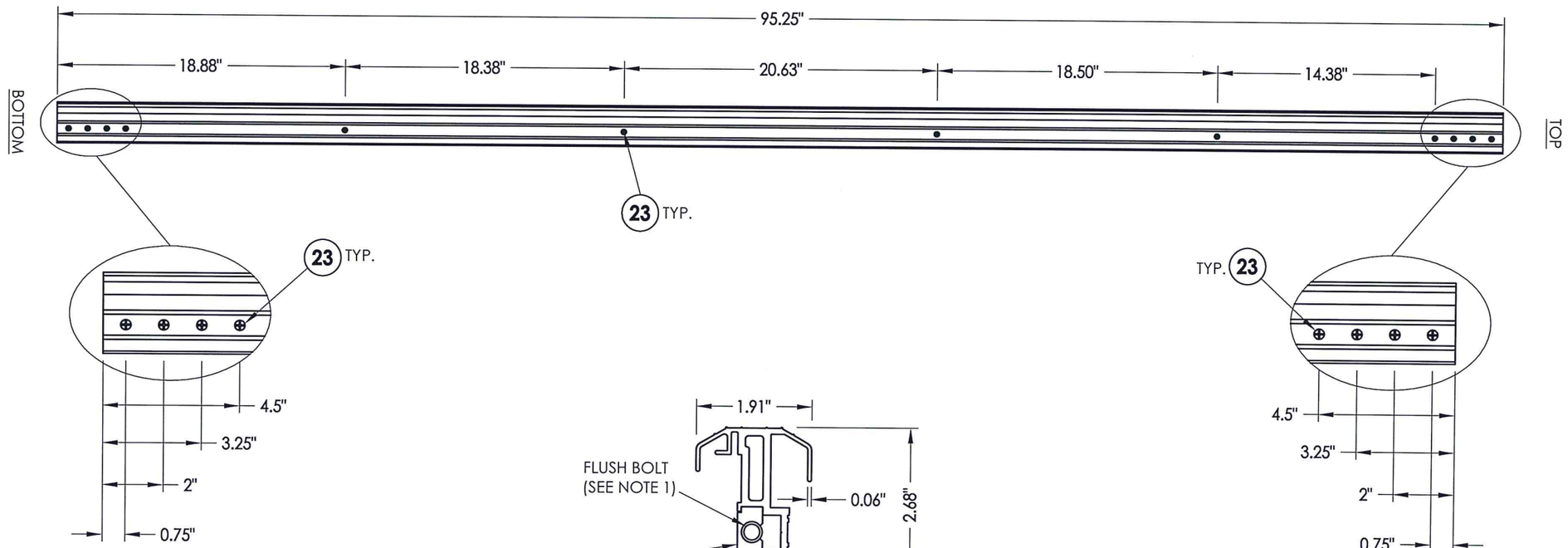

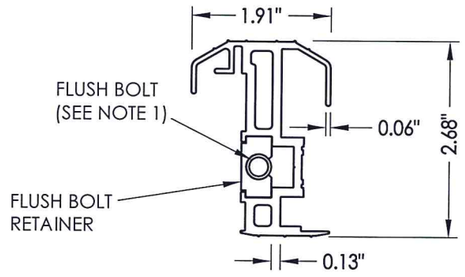

44 ASTRAGAL DETAIL

NOTE:

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

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7.22.15

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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	REVISIONS	BY
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-4261
SHEET 11 OF 12

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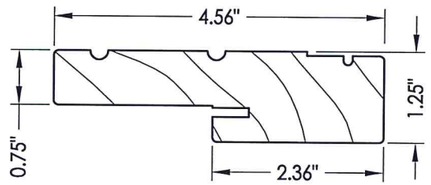
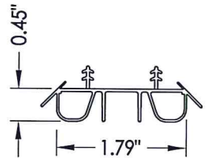
BILL OF MATERIALS

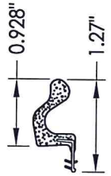
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
J	#10 X 2-1/2" PFH WOOD SCREW (MIN. EMB. = 1.15" HEAD/JAMBS, 1-1/2" SILL)	STEEL
M	#10 X 2" PFH WOOD SCREW	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
1	JAMB - FINGER JOINTED PINE	WOOD
7	WEATHERSTRIP (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



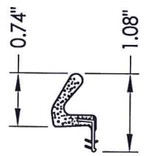
1 **WOOD JAMB**



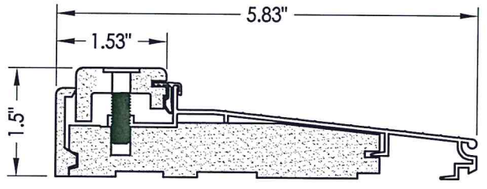
8 **SWEEP**



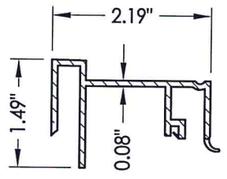
7 **WEATHERSTRIP** Long Reach



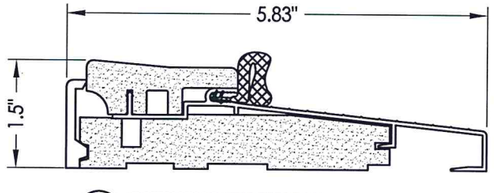
9 **WEATHERSTRIP** Medium Reach



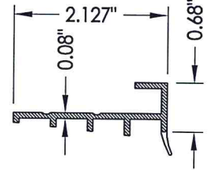
13 **INSWING THRESHOLD**



65 **INSWING SIDELITE** ADAPTER



14 **OUTSWING THRESHOLD**



66 **OUTSWING SIDELITE** ADAPTER

CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *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.*
3. *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"

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

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER · 7.22.15

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *BILL OF MATERIALS & COMPONENTS*

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

DATE: 10/08/12
SCALE: N.T.S.
DWG. BY: JK
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DRAWING NO.: TX-4261
SHEET 12 OF 12

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