THERMA TRU®

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

"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 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, 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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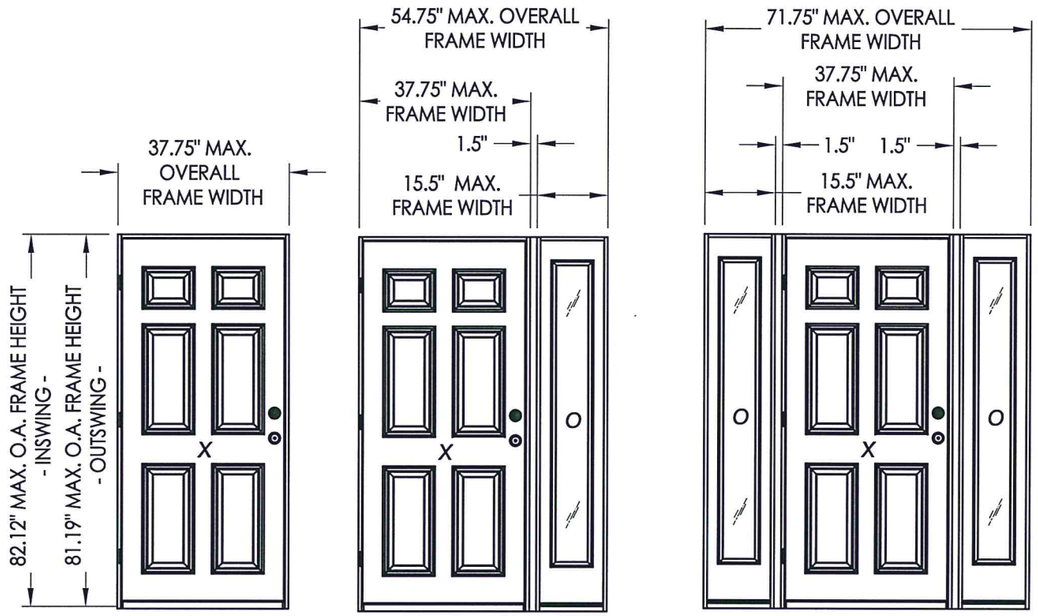

CONFIGURATION	MAX. FRAME DIMENSION	SWING	DESIGN PRESSURE (PSF) SMOOTH STAR / FIBER CLASSIC		DESIGN PRESSURE (PSF) CLASSIC CRAFT	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.75" x 82.12"	INSWING	+65.0	-70.0	+65.0	-70.0
	37.75" x 81.19"	OUTSWING	+65.0	-65.0	+65.0	-65.0
OX or XO	54.75" x 82.12"	INSWING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

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.
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	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-4258
SHEET 1 OF 12

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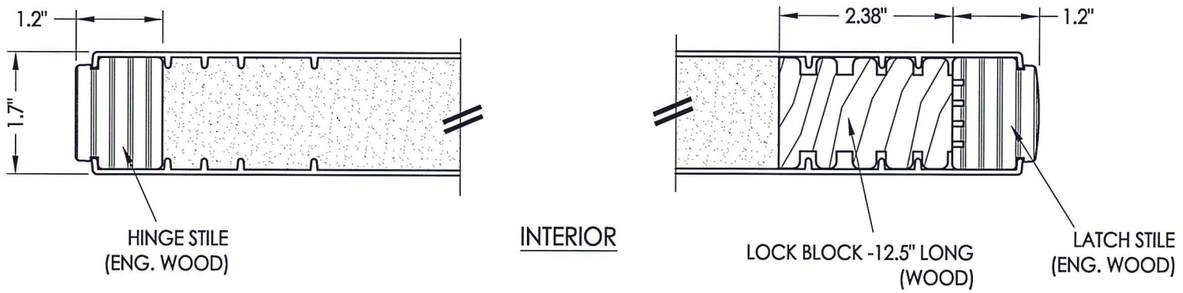
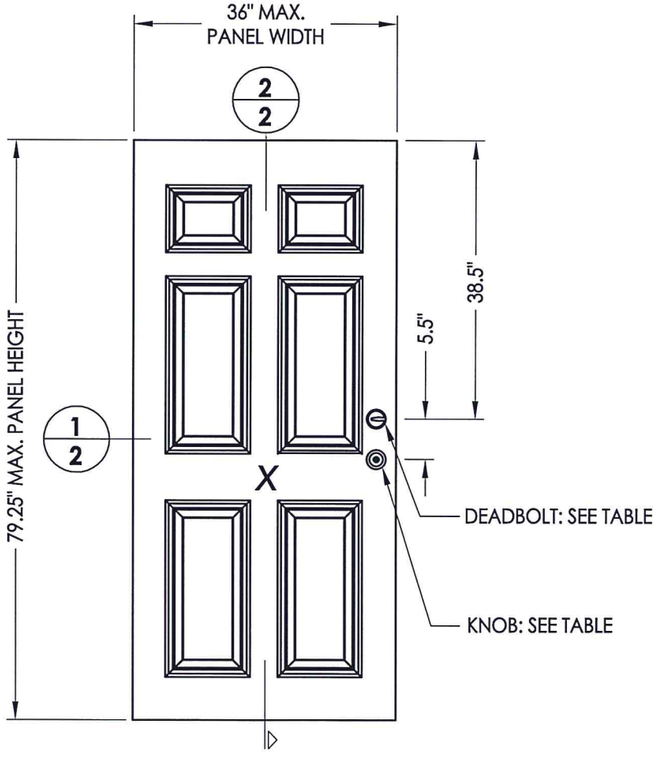
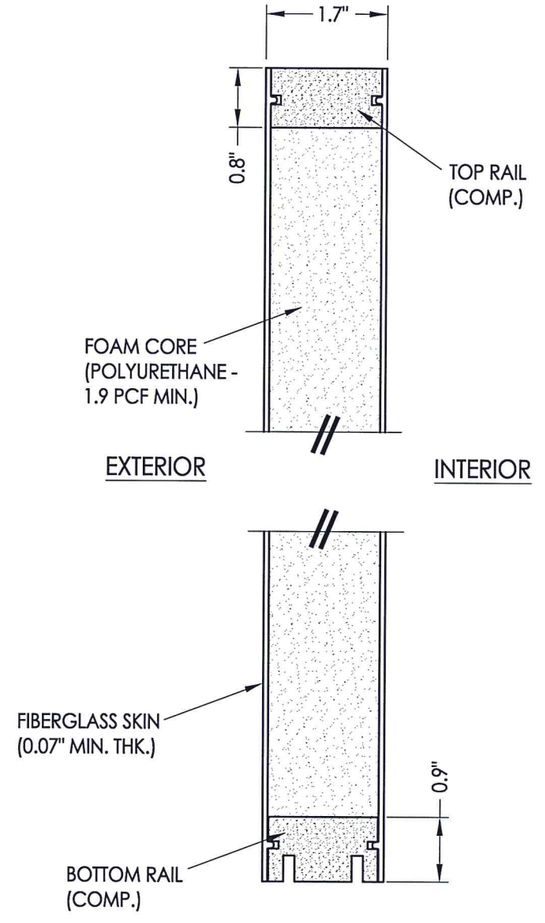


1/2 ***HORIZONTAL CROSS SECTION***



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***

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

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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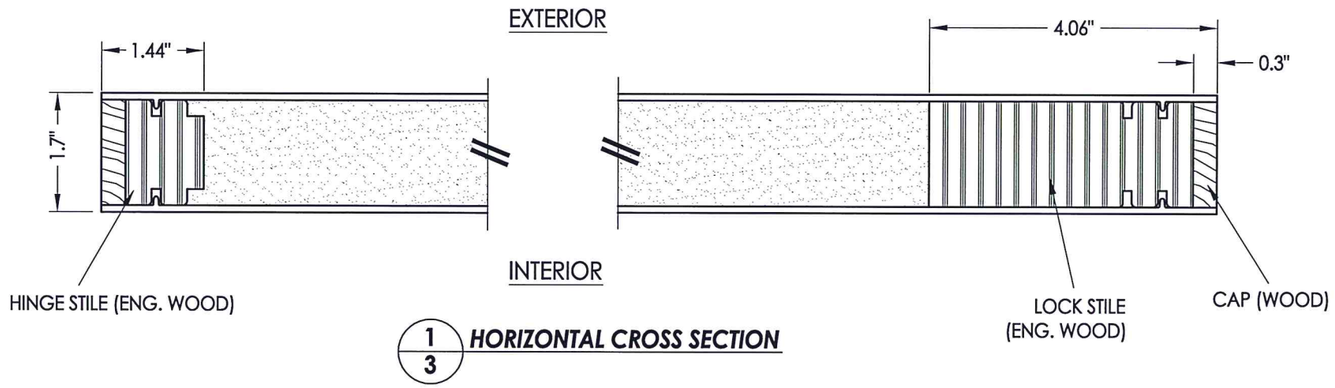
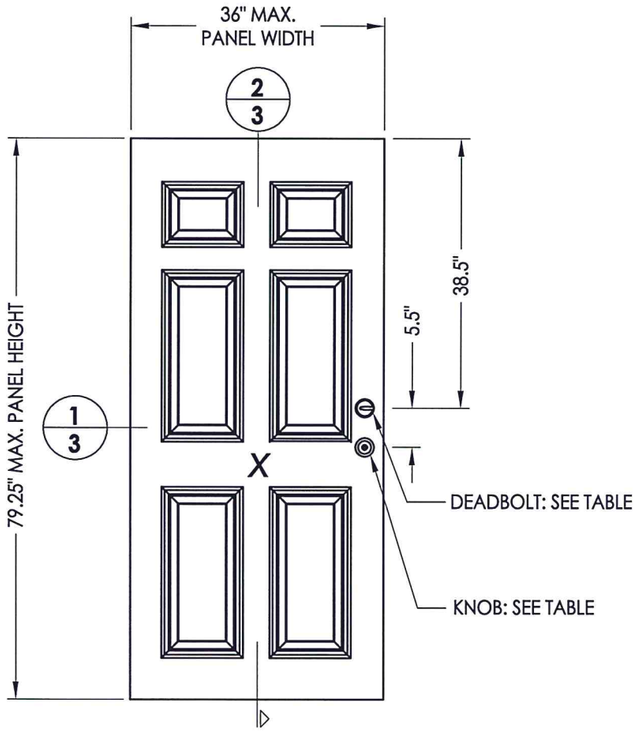
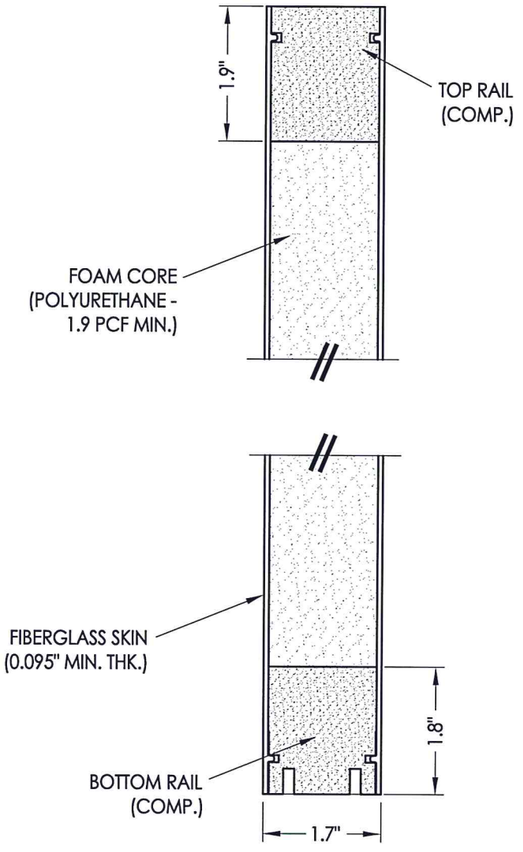


1/3 **HORIZONTAL CROSS SECTION**



41 **DOOR PANEL**
Classic Craft

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



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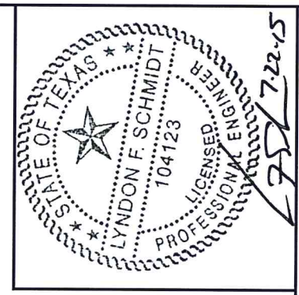

FSL 7.22.15

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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.
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CHK. BY: LFS
DRAWING NO.: TX-4258
SHEET 3 OF 12

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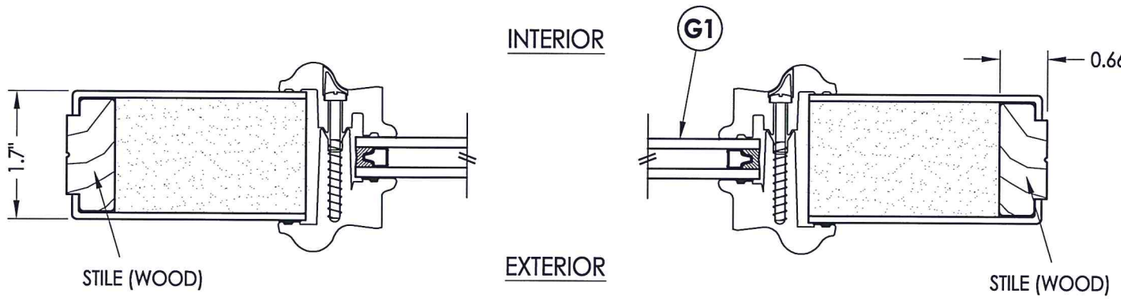
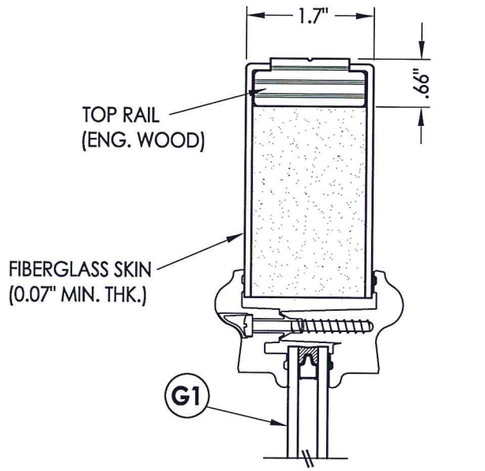
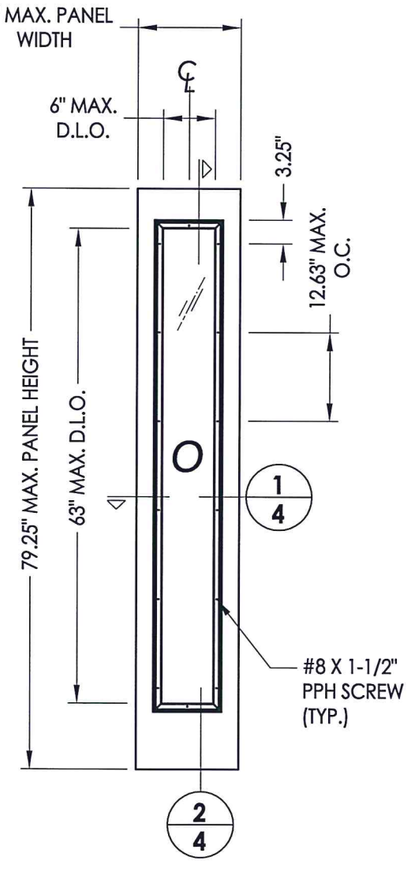
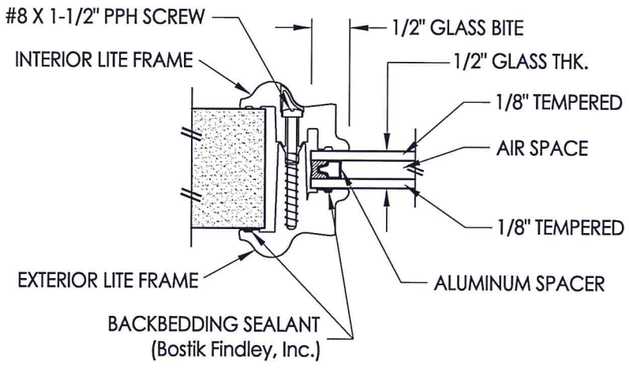


1/4 **HORIZONTAL CROSS SECTION**

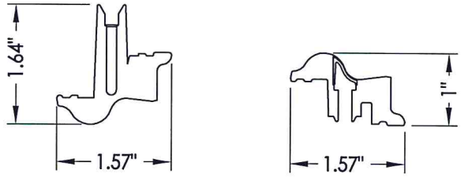




50 **SIDELITE PANEL**
Smooth Star/Fiber Classic

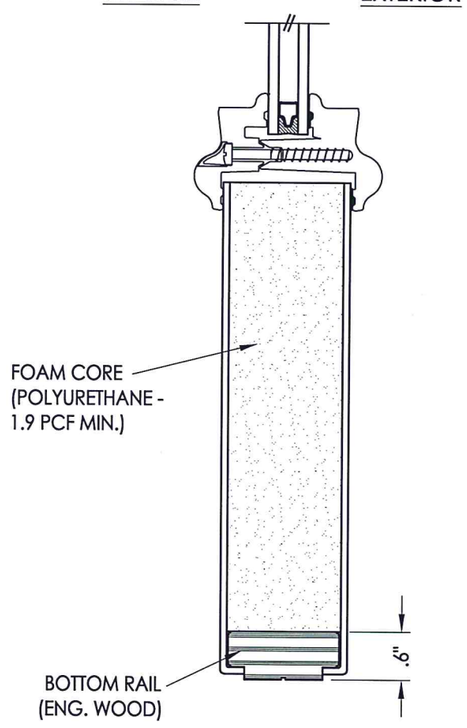


G1 **GLAZING DETAIL**
BTS Lip Lite Frame



EXTERIOR LITE FRAME
BTS

INTERIOR LITE FRAME
BTS



2/4 **VERTICAL CROSS SECTION**

STATE 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: *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.
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CHK. BY: LFS
DRAWING NO.: TX-4258
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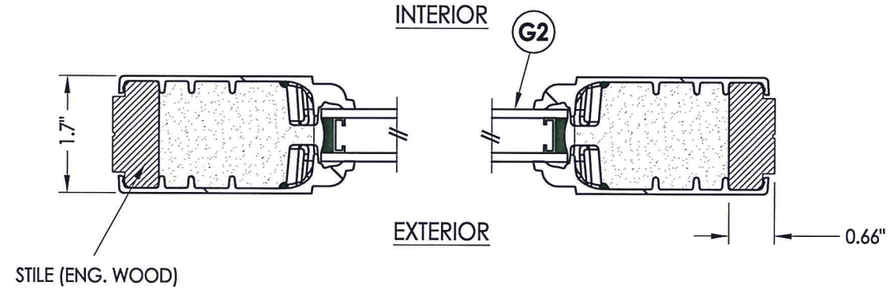
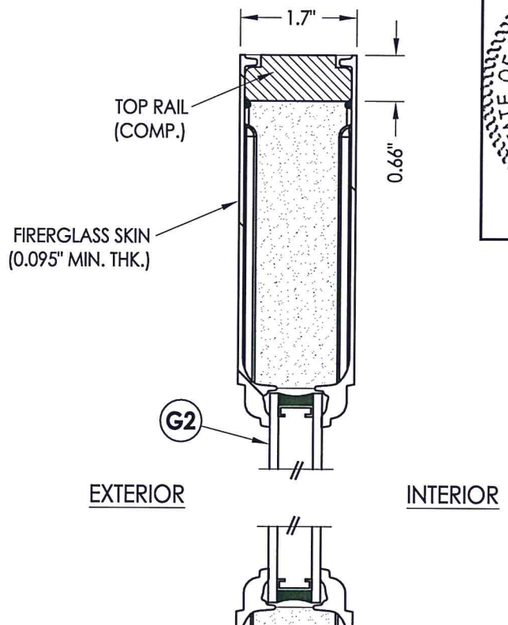
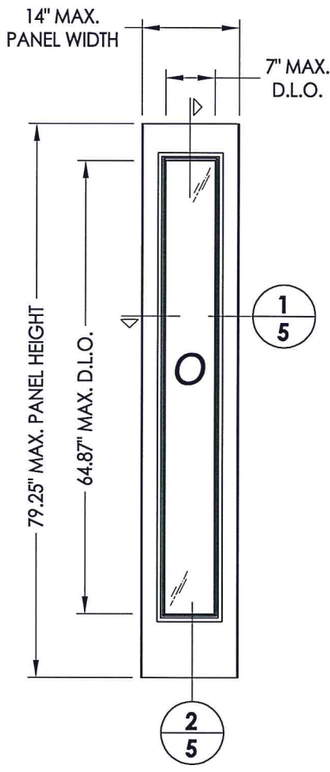
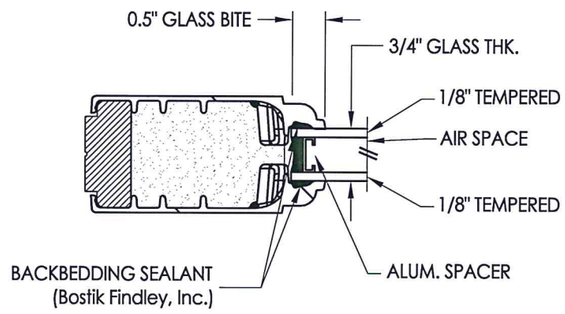


1/5 **HORIZONTAL CROSS SECTION**

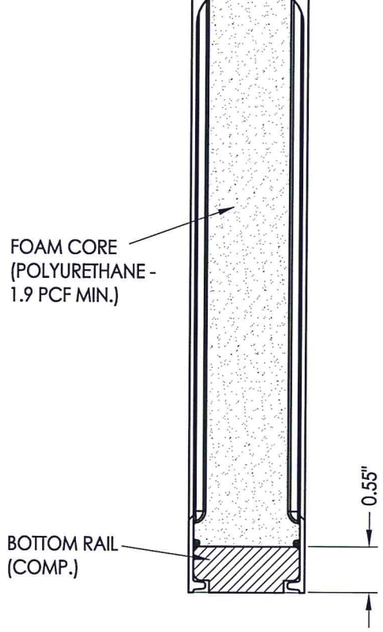




51 **SIDELITE PANEL**
Classic Craft



G2 **GLAZING DETAIL**
Flush Glazed



2/5 **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 (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-4258
SHEET 5 OF 12

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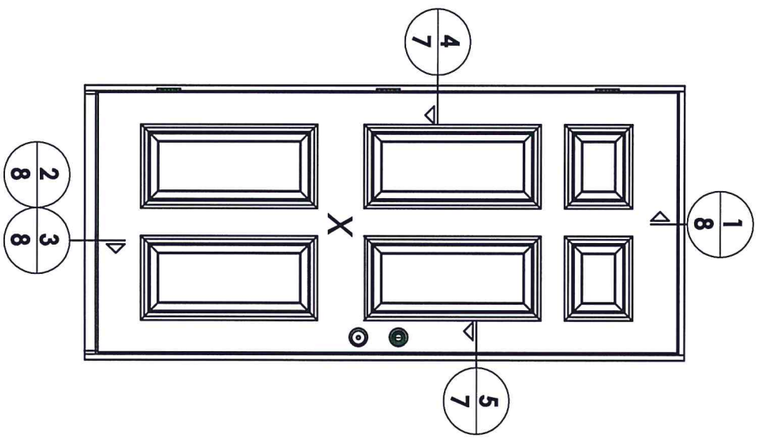
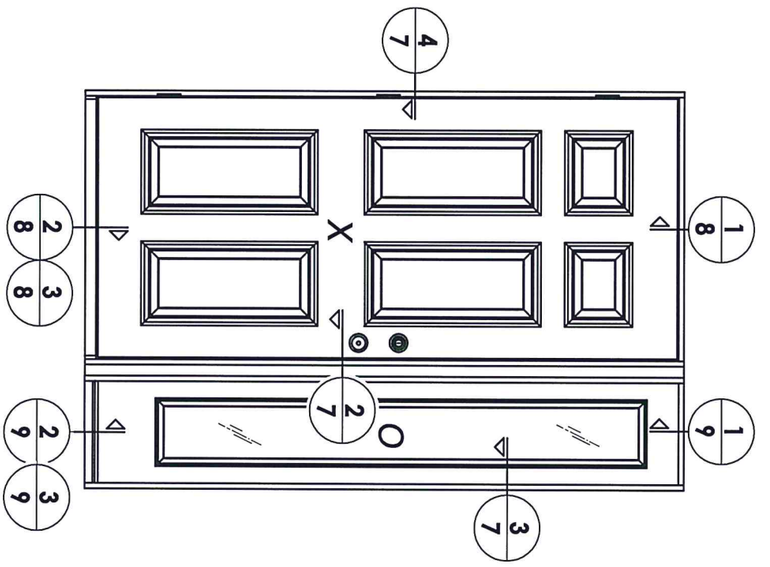
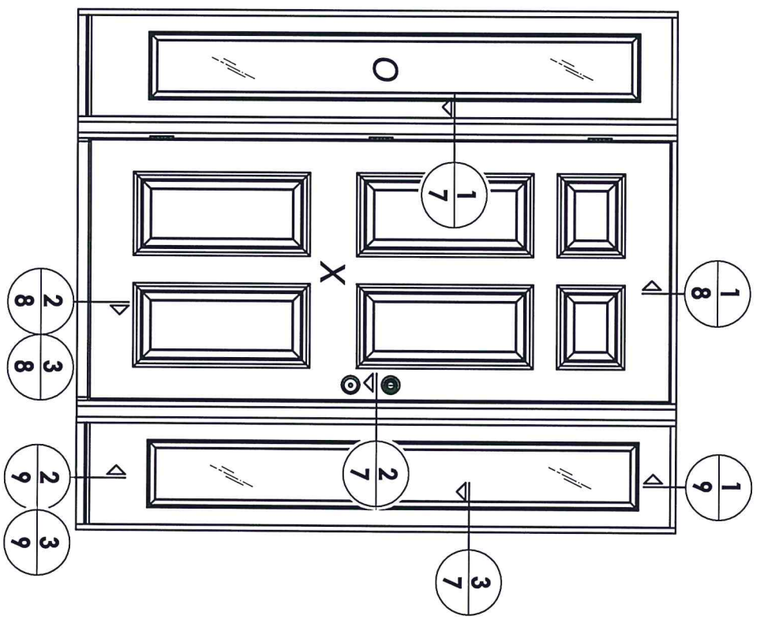
ELEVATION (X)



ELEVATION (OX / XO)



ELEVATION (OXO)



STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER

7.22.15

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

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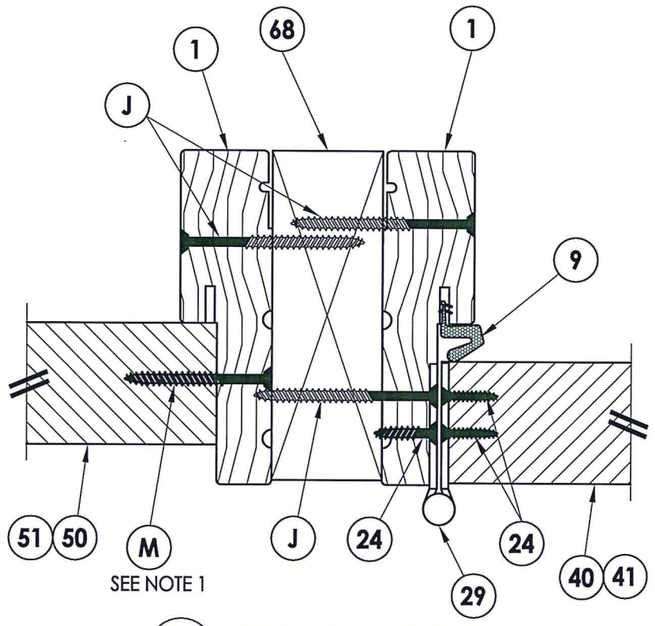
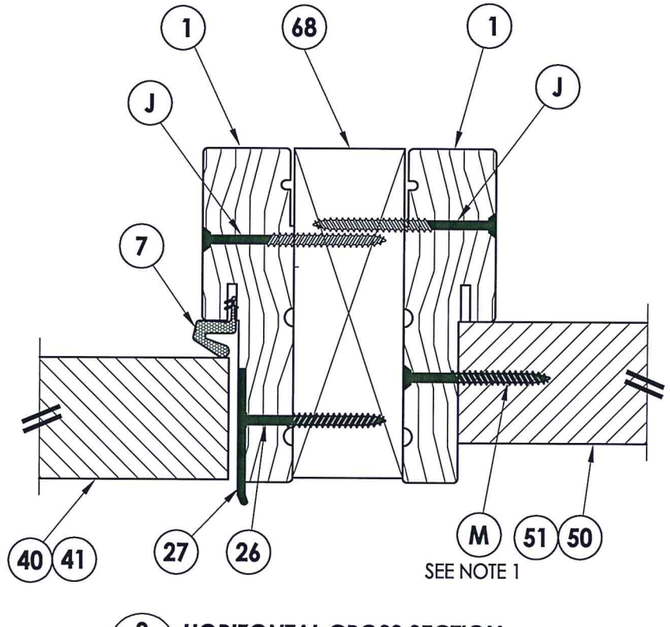
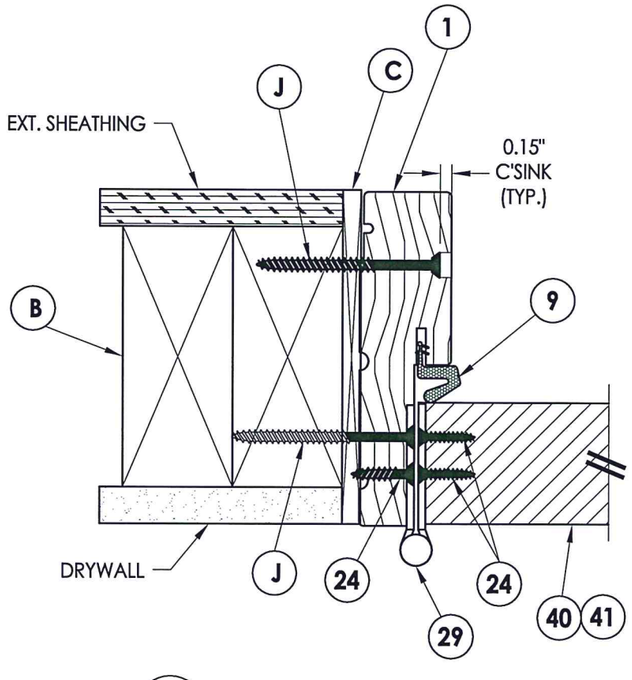


1/7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved

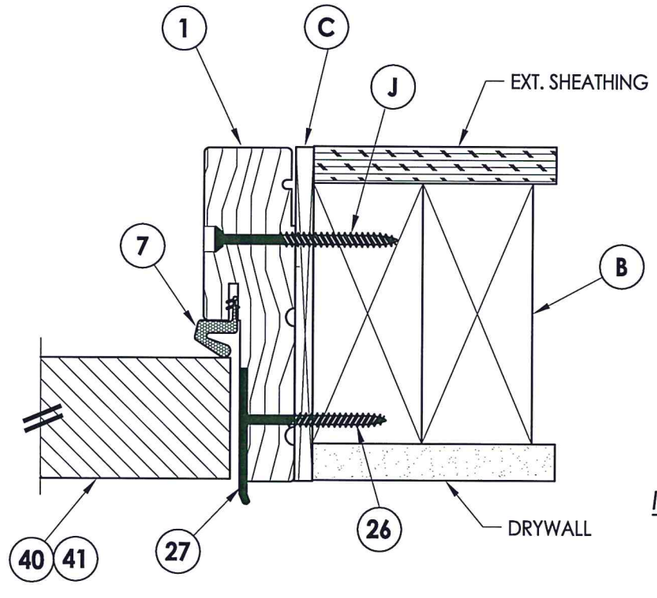


2/7 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved

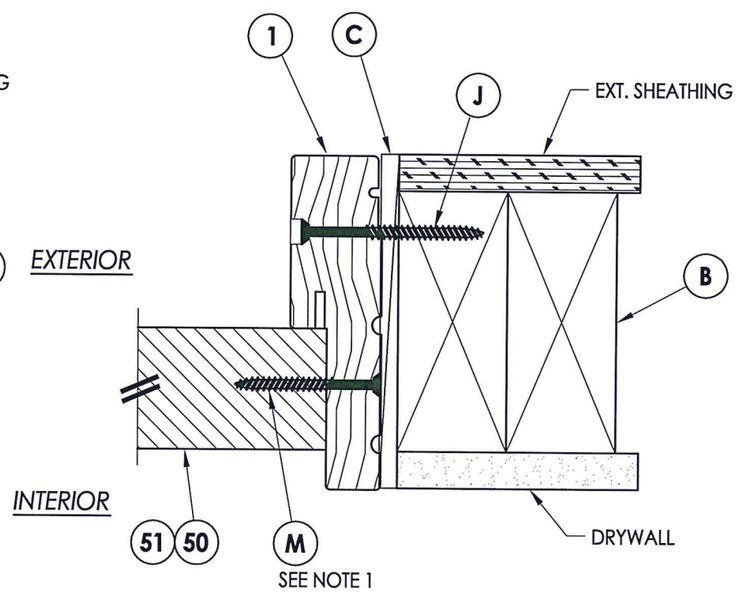
Note:
1. Sidelite assembly screws located 11-1/2" from each end plus 1 more at the center of jamb (3 total).



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

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
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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: *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-4258
SHEET 7 OF 12

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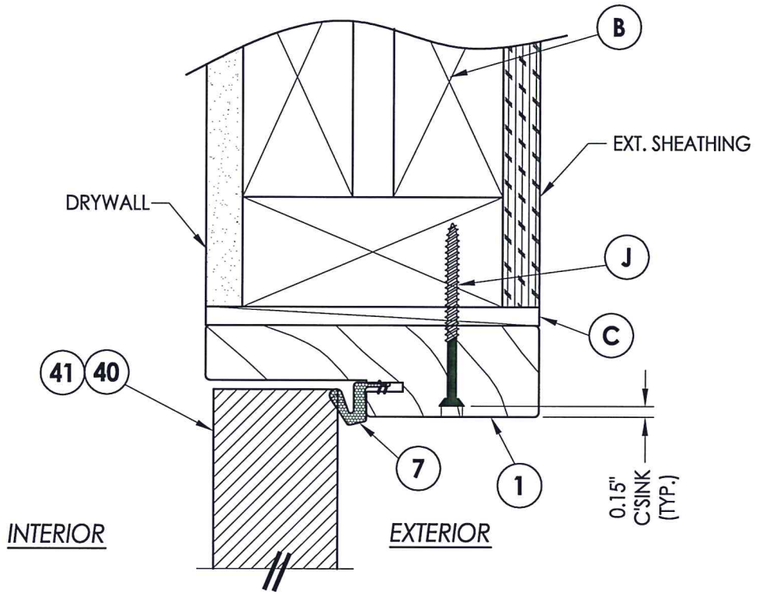
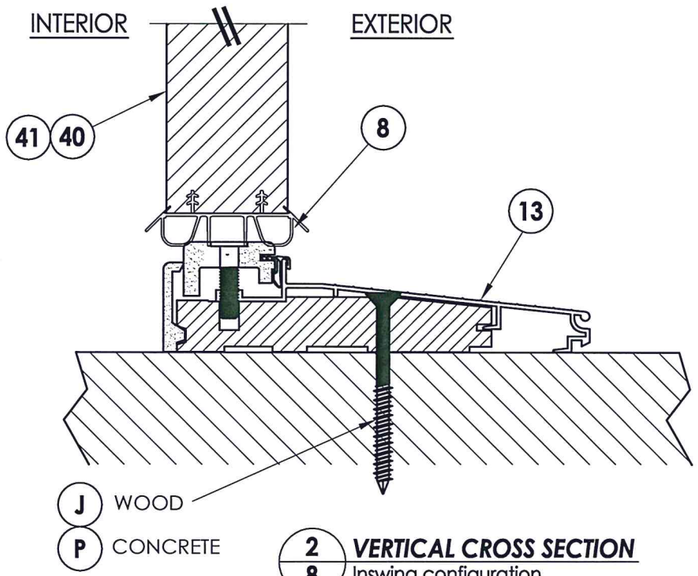
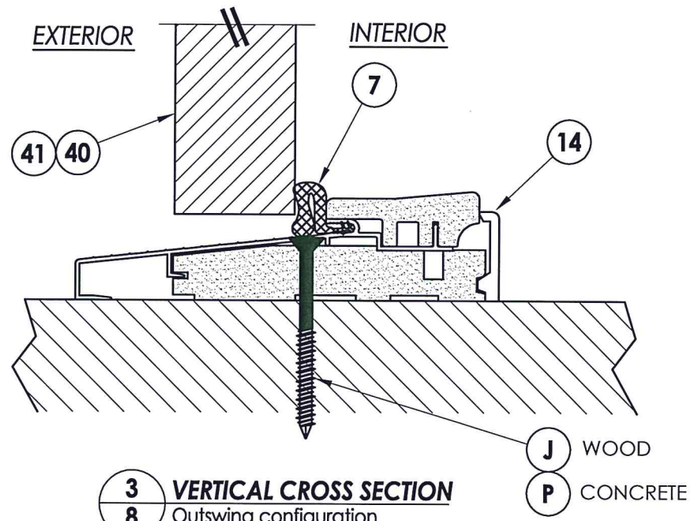


1/8 **VERTICAL CROSS SECTION**
Inswing shown - Outswing also approved



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



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

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LYNDON F. SCHMIDT
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LICENSED PROFESSIONAL ENGINEER
2.22.15

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-4258
SHEET 8 OF 12

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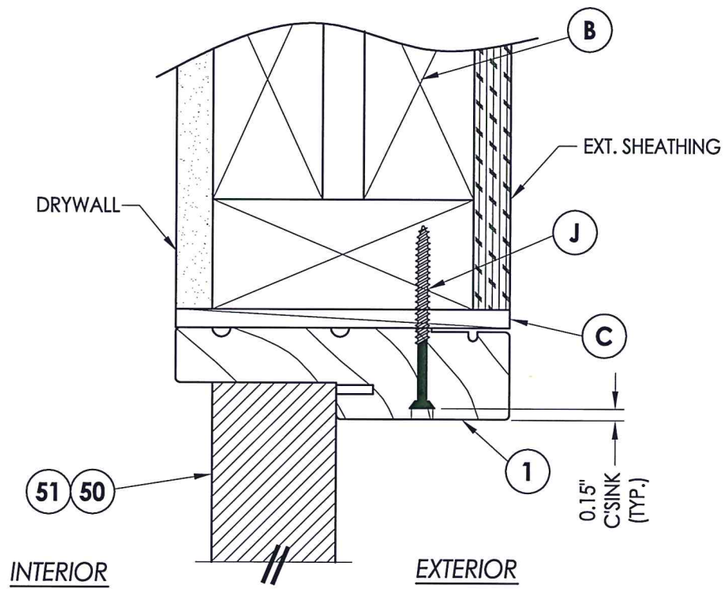
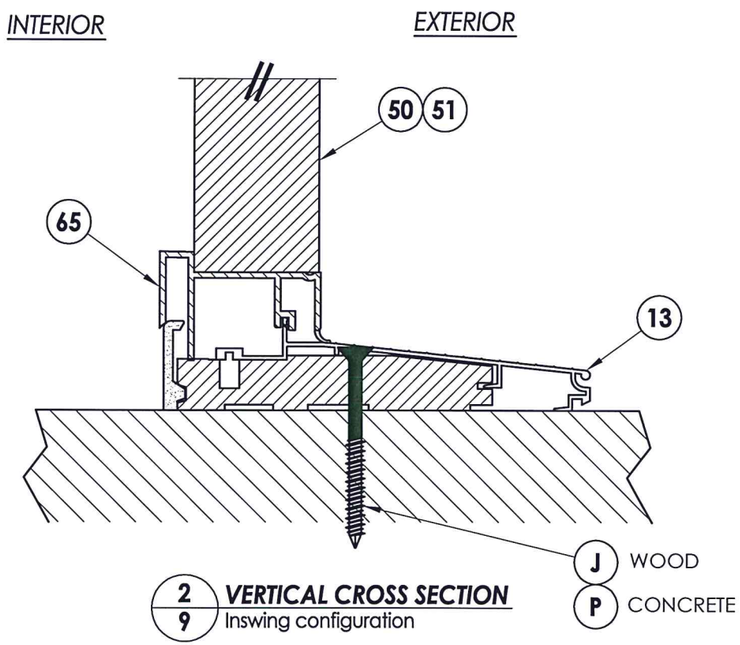
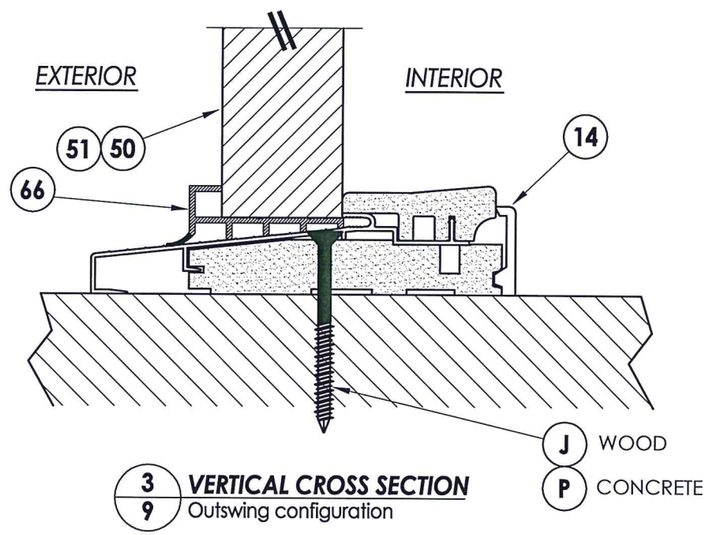


1/9 VERTICAL CROSS SECTION
Inswing shown - Outswing also approved



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

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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-4258
SHEET 9 OF 12

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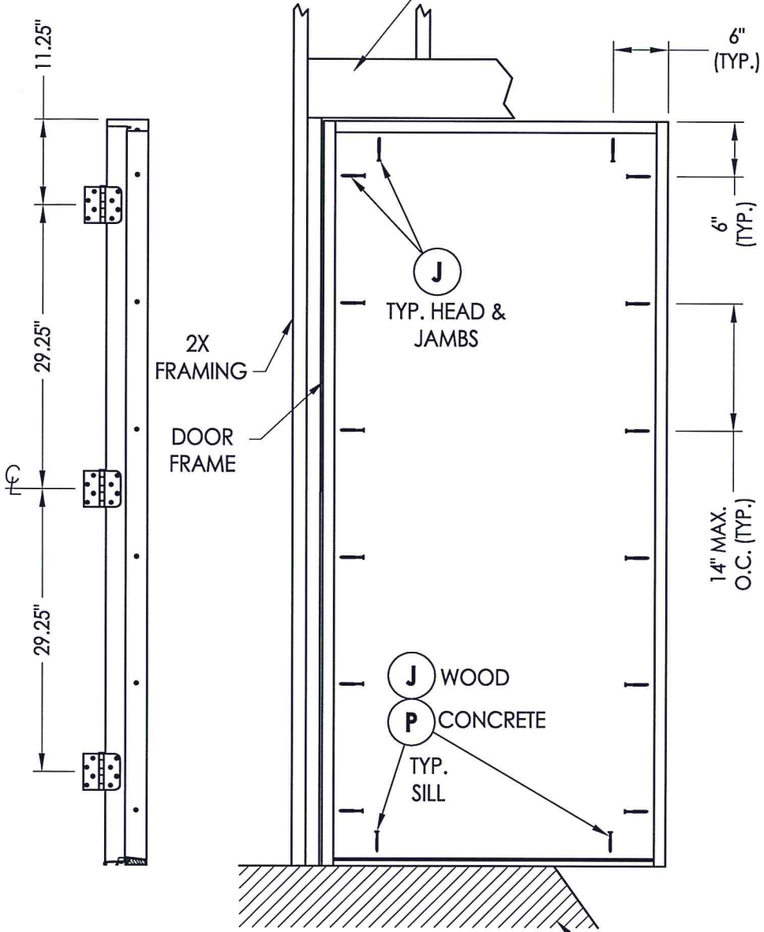
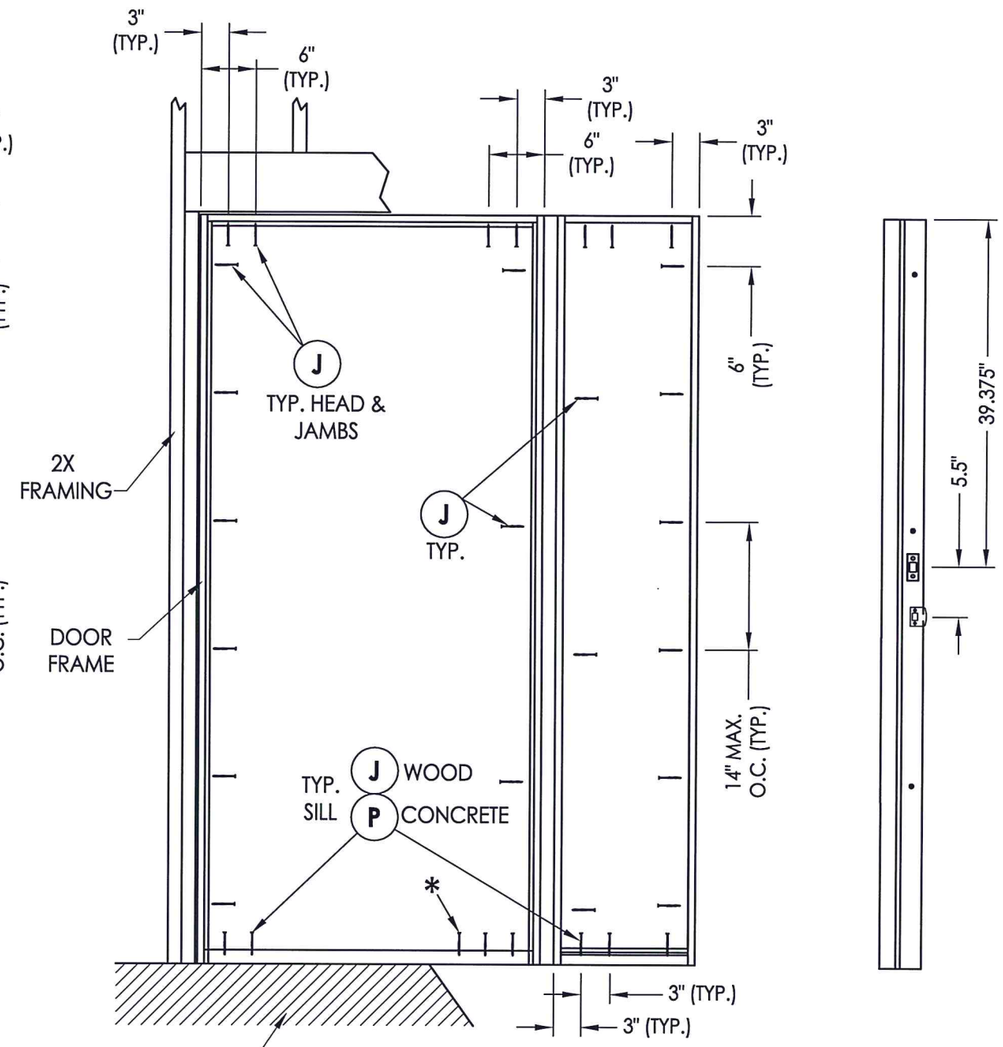
R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 600 - 68 - 80 Opaque FG NonImp IS - OS Sgls Dbls w SLLC - Drawings\Current\TX-4258-59.dwg, 9

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

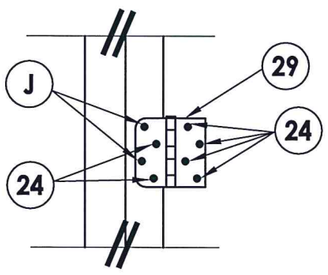




FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

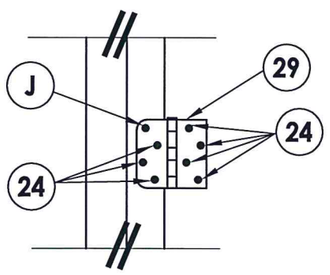
*This anchor required for D.P > 60 psf.

HINGE JAMB



HINGE DETAIL
Inswing

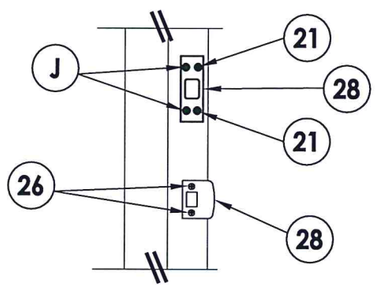
FRAME ANCHORING
X



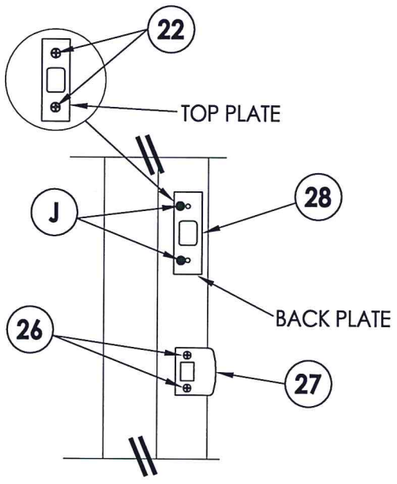
HINGE DETAIL
Outswing

FRAME ANCHORING
OX / XO

STRIKE JAMB



LATCH & DEADBOLT STRIKE DETAIL
Kwikset Hardware - Standard Strike



LATCH & DEADBOLT STRIKE DETAIL
Schlage Hardware - Standard Strike

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: *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-4258
SHEET 10 OF 12

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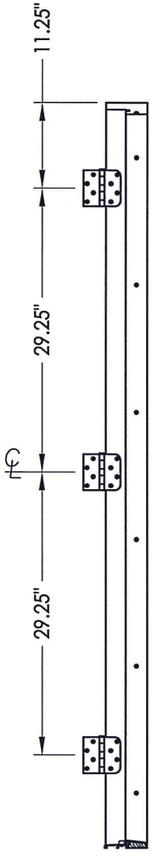
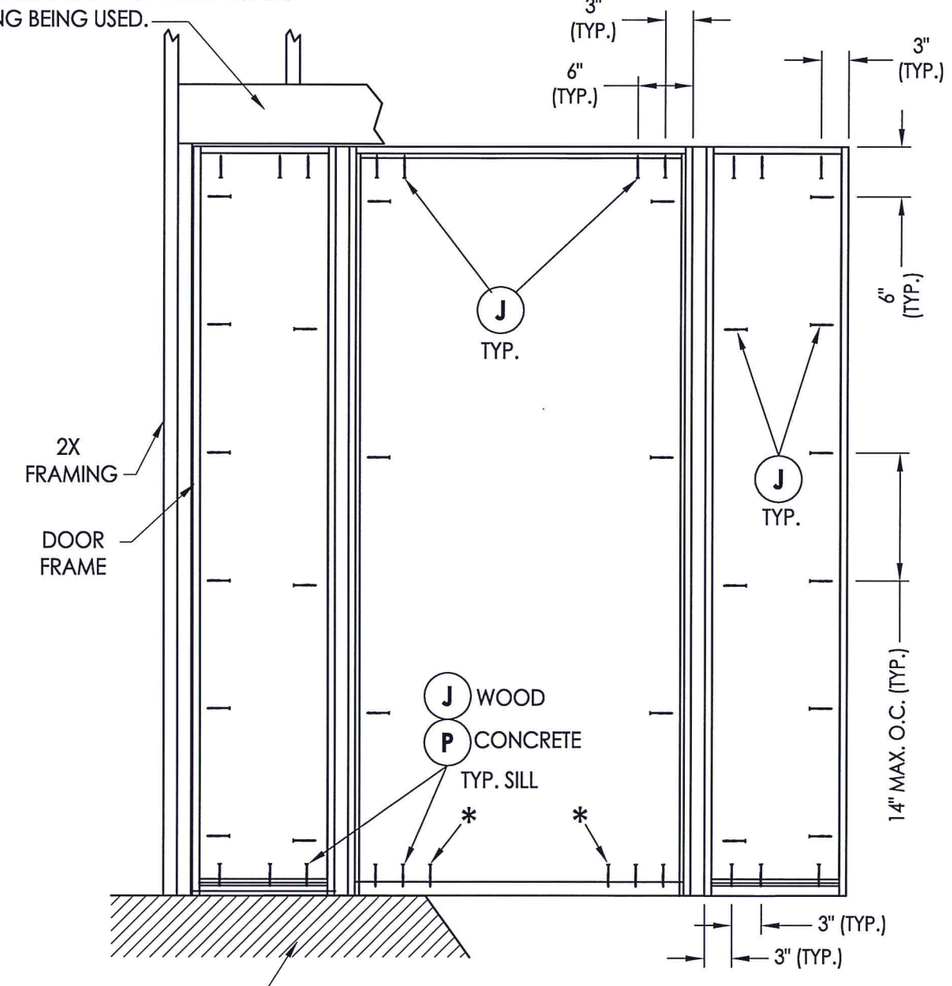


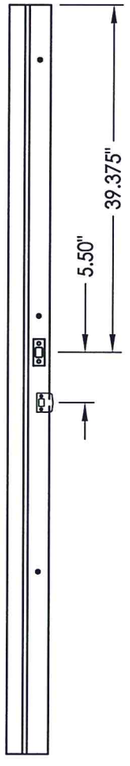
HINGE JAMB



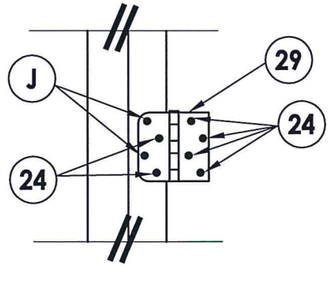
FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

FRAME ANCHORING
OXO

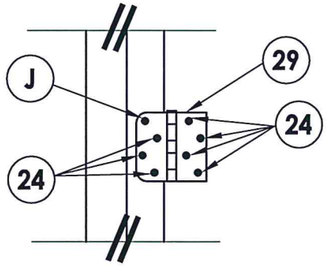
*This anchor required for D.P > 60 psf.



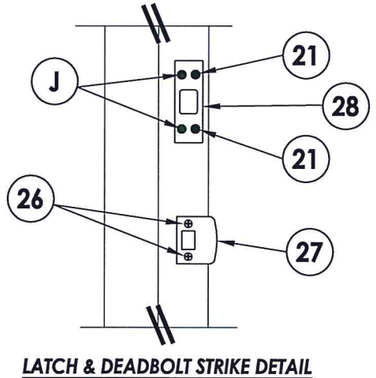
STRIKE JAMB



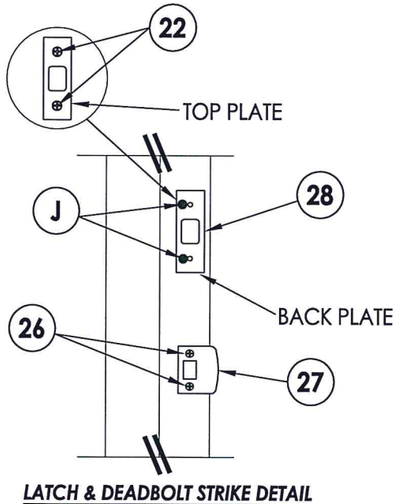
HINGE DETAIL
Inswing



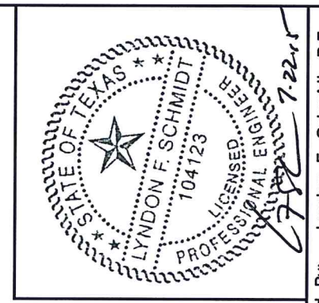
HINGE DETAIL
Outswing



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*

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-4258
SHEET 11 OF 12

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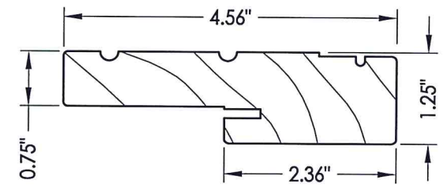
BILL OF MATERIALS

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

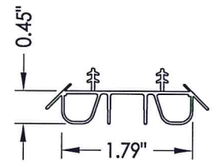
CONCRETE ANCHOR NOTES:

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:*

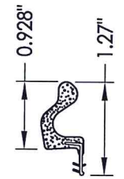
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



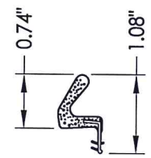
1 WOOD JAMB



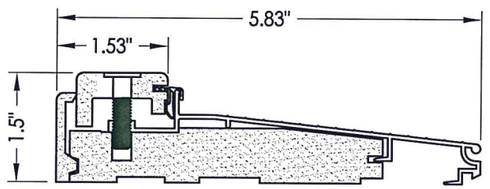
8 SWEEP



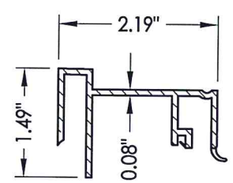
7 WEATHERSTRIP Long Reach



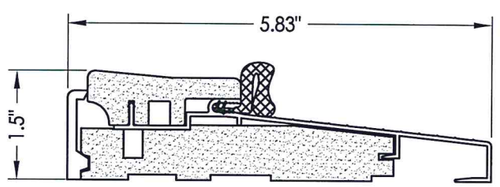
9 WEATHERSTRIP Medium Reach



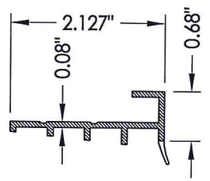
13 INSWING THRESHOLD



65 INSWING SIDELITE ADAPTER



14 OUTSWING THRESHOLD



66 OUTSWING SIDELITE ADAPTER

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

7.22.15

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

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

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