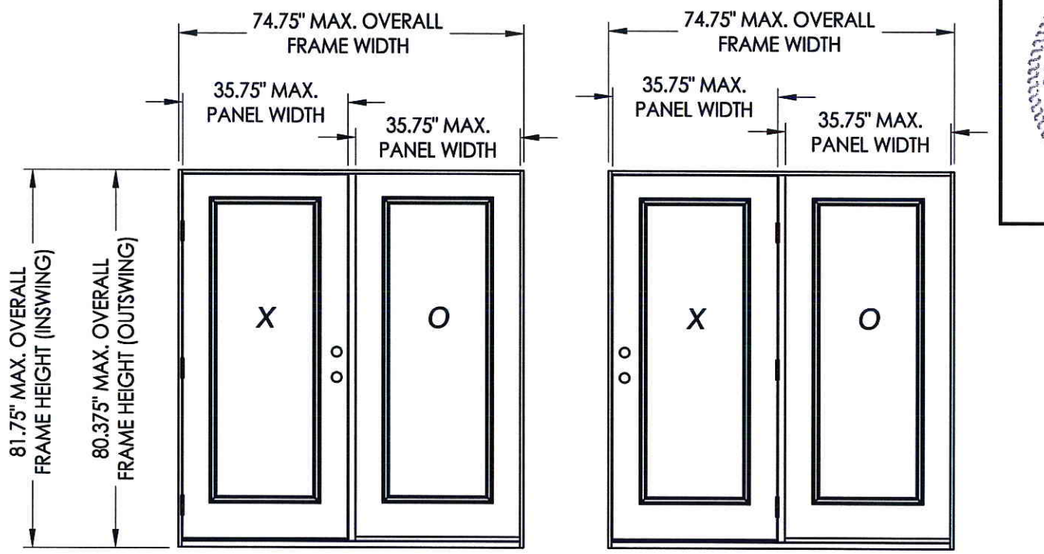
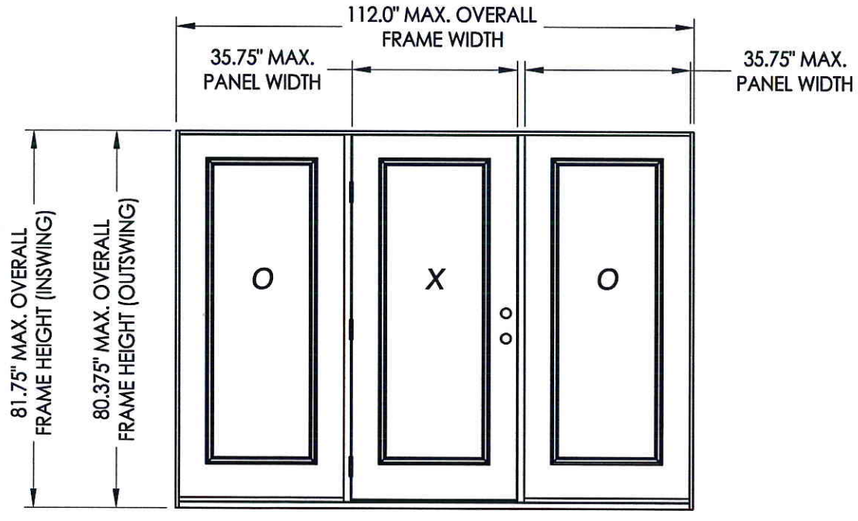
ODL

215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

Distributed by: ***McCoy's Building Supply***
1350 I.H. 35 North
San Marcos, TX 78677

FIBERGLASS ENTRY DOOR
INSWING / OUTSWING
"IMPACT"





EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Glazed 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. This system has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. This product meets missile level "D" as defined in ASTM E 1996.
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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2	Door panel details
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5	Elevations
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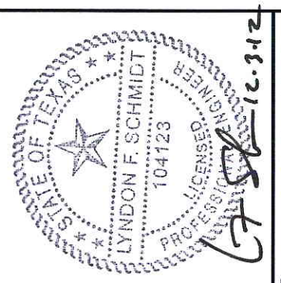
7	Vertical cross sections
8	Vertical cross sections
9	Frame anchoring
10	Bill of materials & components

CONFIGURATION	*MAX. FRAME DIMENSION*	*DESIGN PRESSURE (PSF)*	
		POSITIVE	*NEGATIVE*
OX/XO	74.75" x 81.75"	+50.0	-50.0
OXO	112.0" x 81.75"	+50.0	-50.0



12.3.12

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: *FIBERGLASS DOOR*

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

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 1 OF 10

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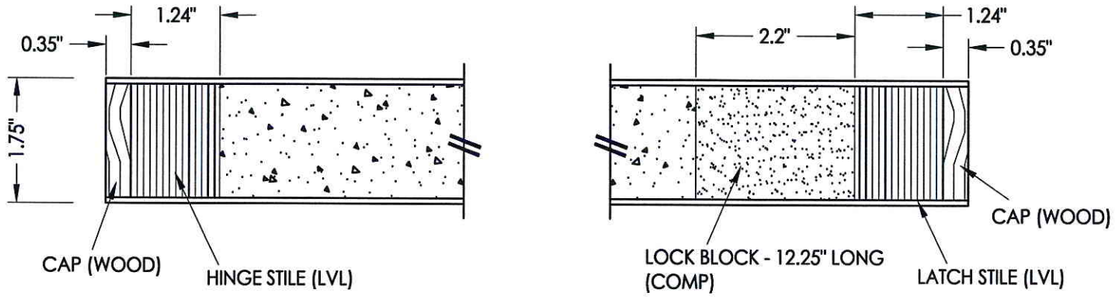
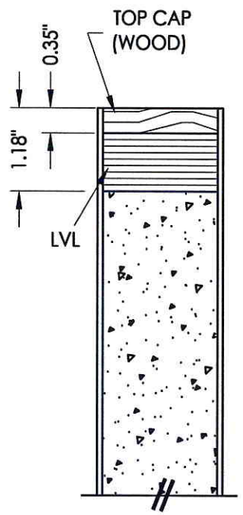
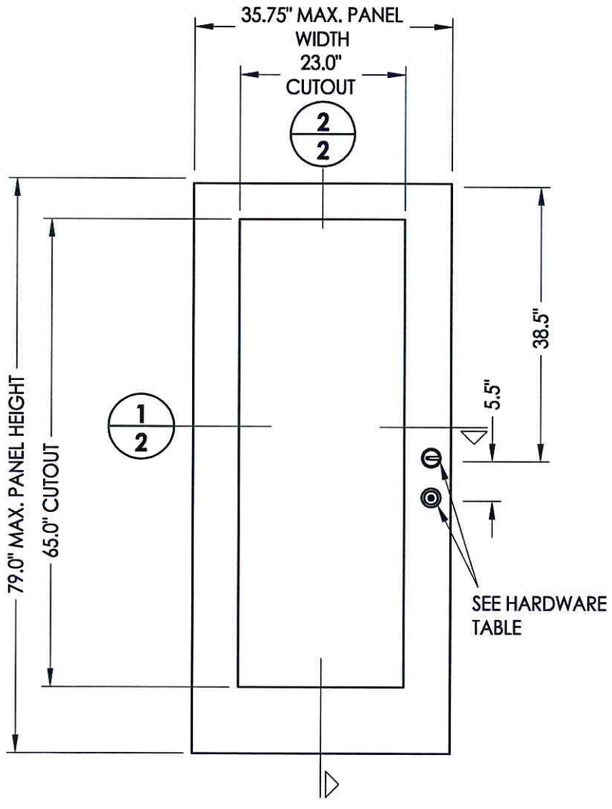


1/2 **HORIZONTAL CROSS SECTION**

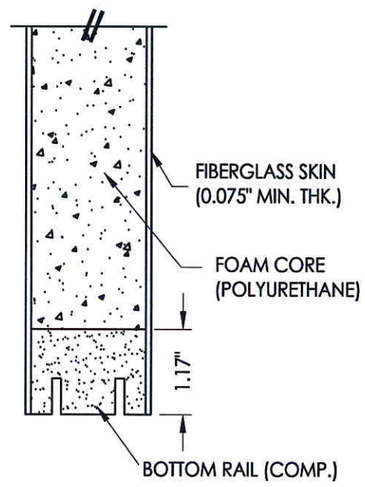




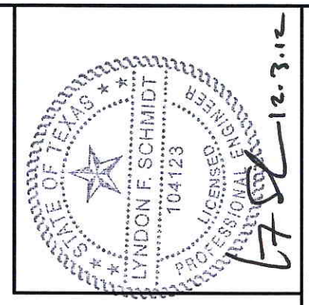
40 **DOOR PANEL**
Masonite

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB: DEADBOLT:	SIGNATURE SERIES SIGNATURE SERIES (980)
SCHLAGE	KNOB: DEADBOLT:	"F" SERIES (F60) "B" SERIES (B60/62)
PAMEX*	KNOB: DEADBOLT:	"FT" SERIES "FD7" SERIES

* MAX. DESIGN PRESSURE FOR PAMEX LOCK
INSWING = +40/-50 PSF
OUTSWING = +40/-40 PSF



2/2 **VERTICAL CROSS SECTION**



Documents Prepared By: Lyndon F. Schmidt, P.E.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *FIBERGLASS DOOR*

PART OR ASSEMBLY: *DOOR PANEL DETAILS*

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 2 OF 10

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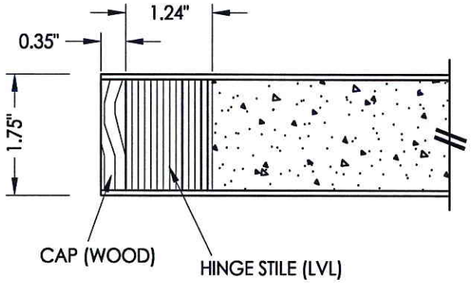

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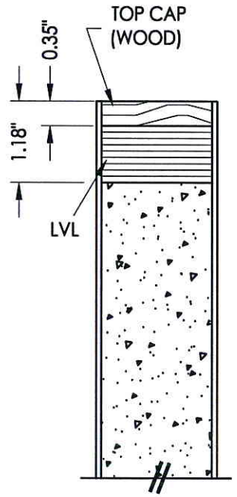

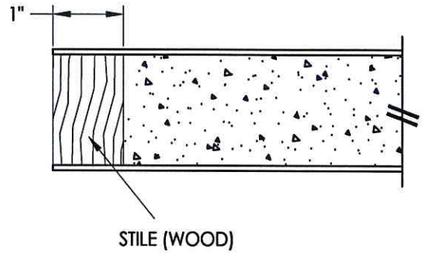

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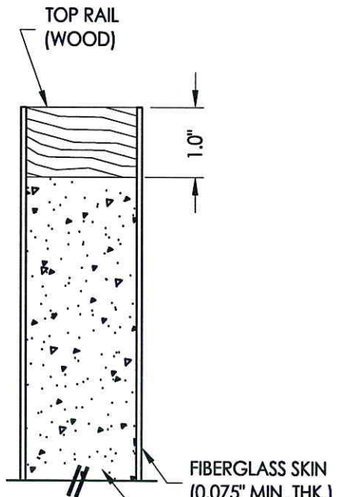
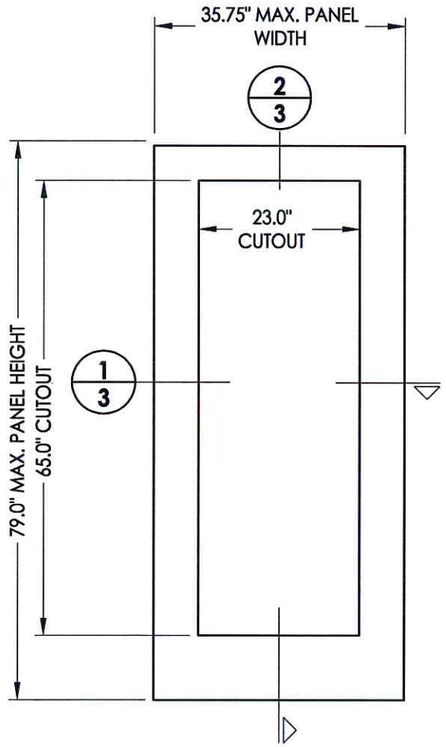
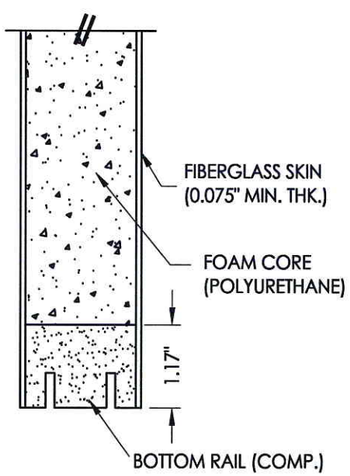
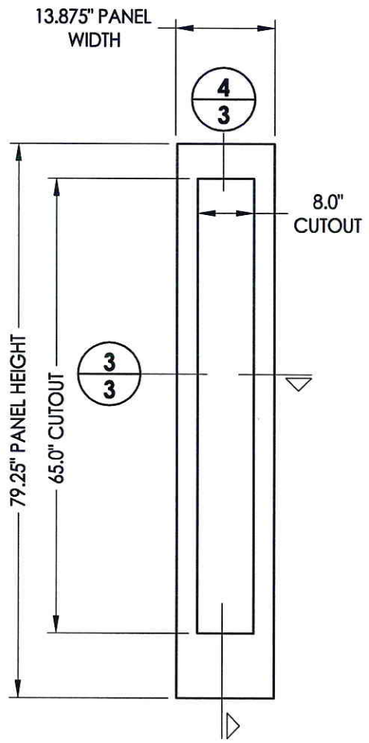




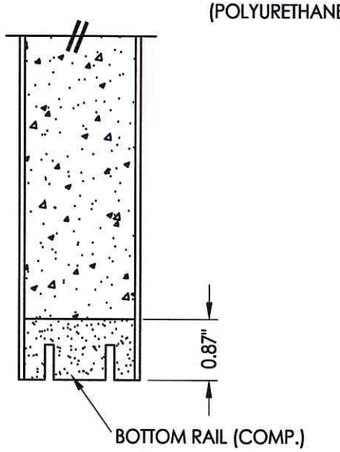
50 **SIDELITE PANEL (36" NOM.)**
Masonite



2/3 **VERTICAL CROSS SECTION**



51 **SIDELITE PANEL (14" NOM.)**
Masonite



4/3 **VERTICAL CROSS SECTION**

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

PRODUCT: *FIBERGLASS DOOR*

PART OR ASSEMBLY: *SIDELITE PANEL DETAILS*

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 3 OF 10

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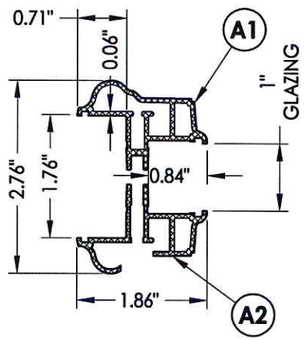
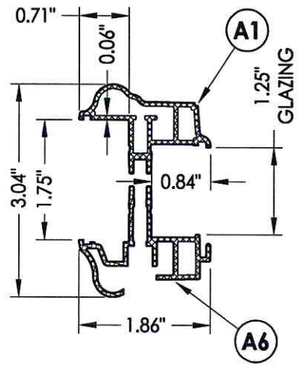
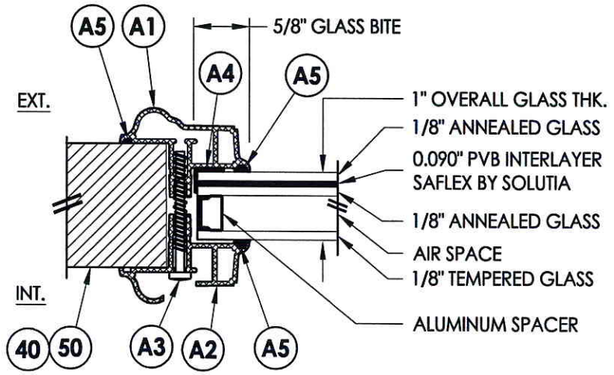


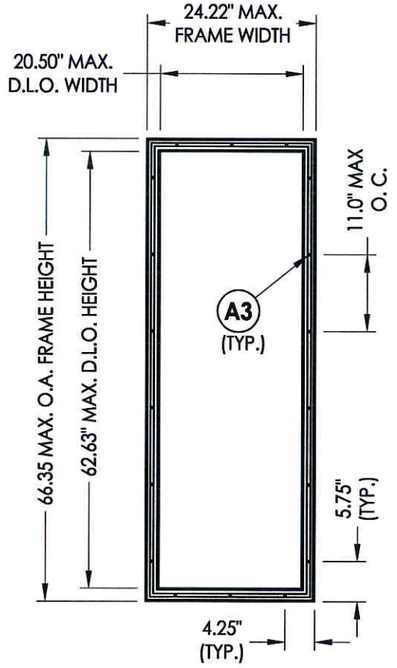
ODL LITE FRAME CROSS SECTION
1" GLAZING



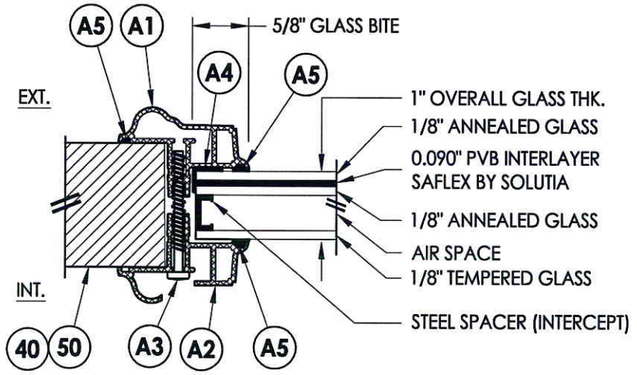
ODL LITE FRAME CROSS SECTION
1.25" GLAZING



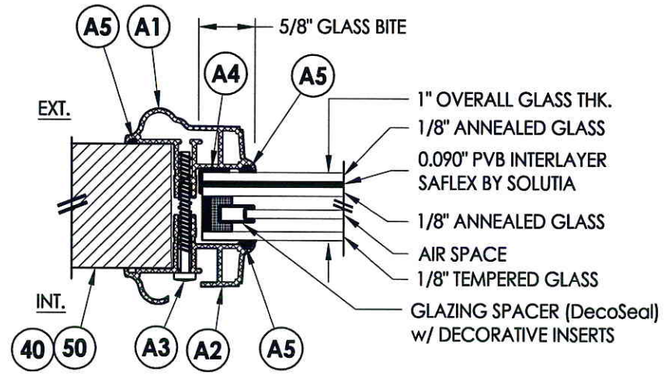
G1 *GLAZING DETAIL*



ODL LITE FRAME

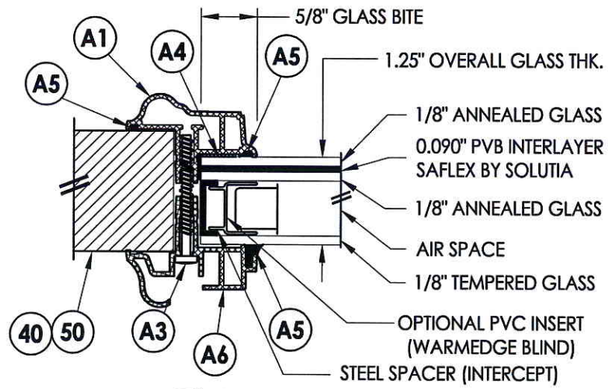


G2 *GLAZING DETAIL*



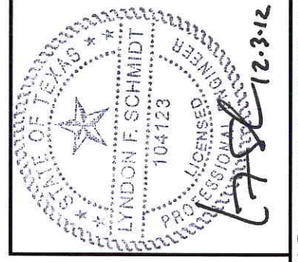
G3 *GLAZING DETAIL*

BILL OF MATERIALS (LITE FRAME & GLAZING DETAILS)		
ITEM #	DESCRIPTION	MATERIAL
A1	EXTERIOR FRAME	ALUM.
A2	INTERIOR FRAME (1" GLAZING)	ALUM.
A3	#7-19 X 1-3/4" PPH SELF-DRILLING SMS	STEEL
A4	DOW 995 STRUCTURAL SILICONE	SILICONE
A5	NON STRUCTURAL BACKBEDDING SEALANT (READISEAL)	-
A6	INTERIOR FRAME (1" GLAZING)	ALUM.



G4 *GLAZING DETAIL*

MAX. DESIGN PRESSURE FOR G4 GLAZING
INSWING = +40/-50 PSF
OUTSWING = +40/-40 PSF



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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: *FIBERGLASS DOOR*

PART OR ASSEMBLY: *LITE FRAME & GLAZING DETAILS*

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 4 OF 10

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ELEVATION (XO - OX)

ELEVATION (XO - OX)
center hinge

ELEVATION (OXO)

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Phone No.: 813.659.9197

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

PRODUCT: *FIBERGLASS DOOR*

PART OR ASSEMBLY: *ELEVATIONS*

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 5 OF 10

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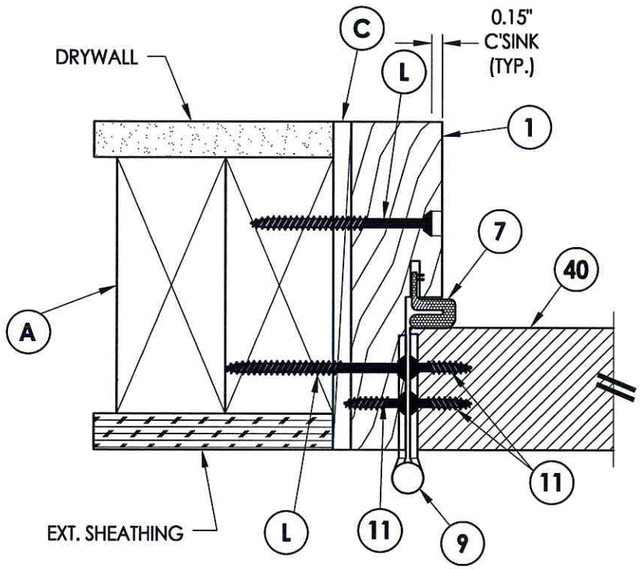
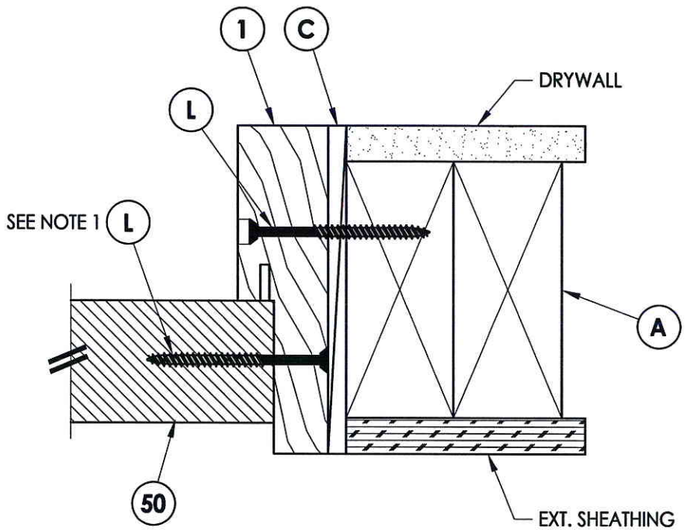


1/6 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved

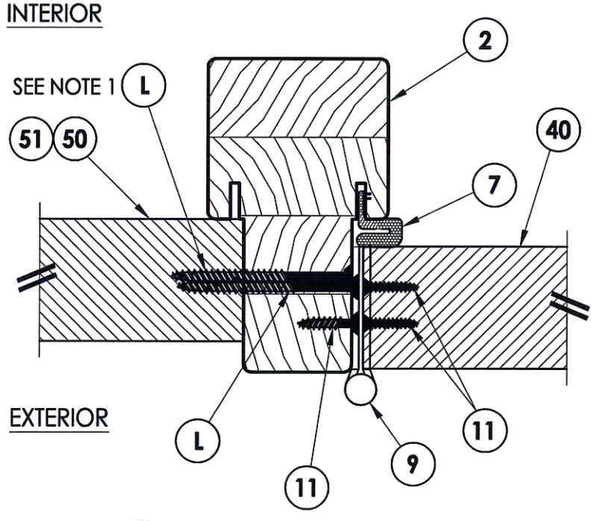
INTERIOR

EXTERIOR

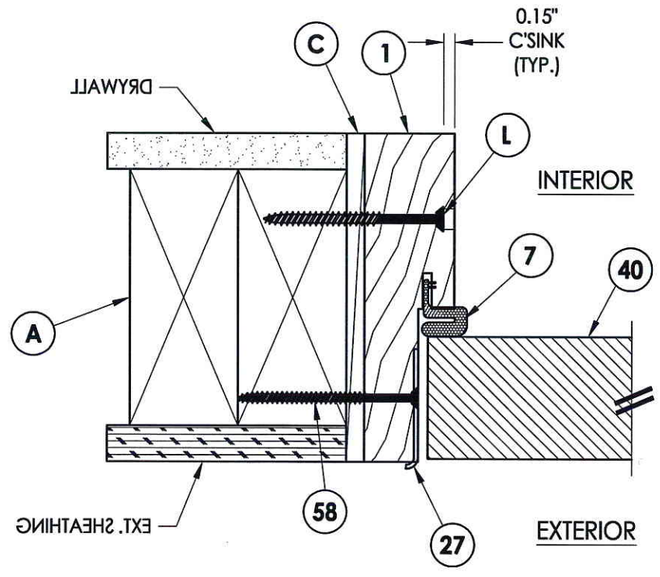


4/6 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved

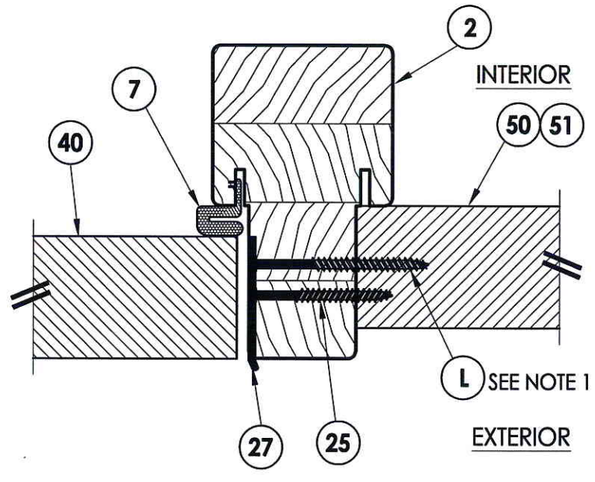
NOTE:
1. Sidelite panel screws located 6" from each end and equally spaced (4 screws total)



2/6 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



5/6 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



3/6 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
12.3.12

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: FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 6 OF 10

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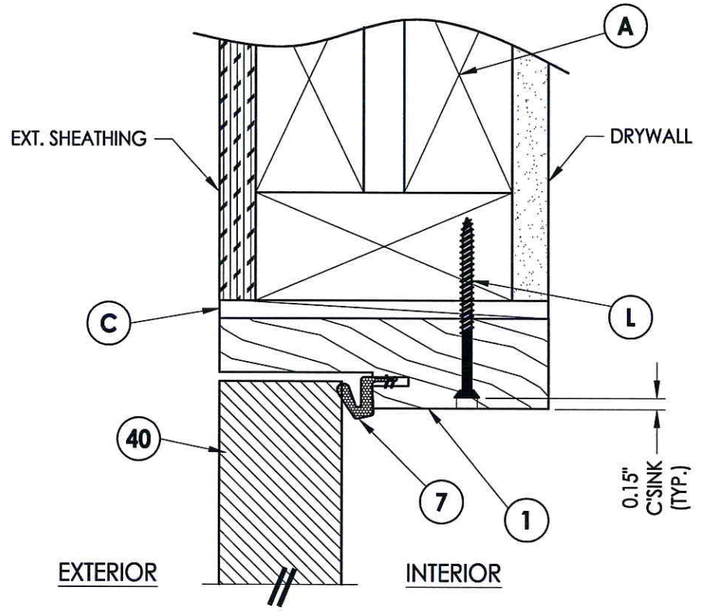
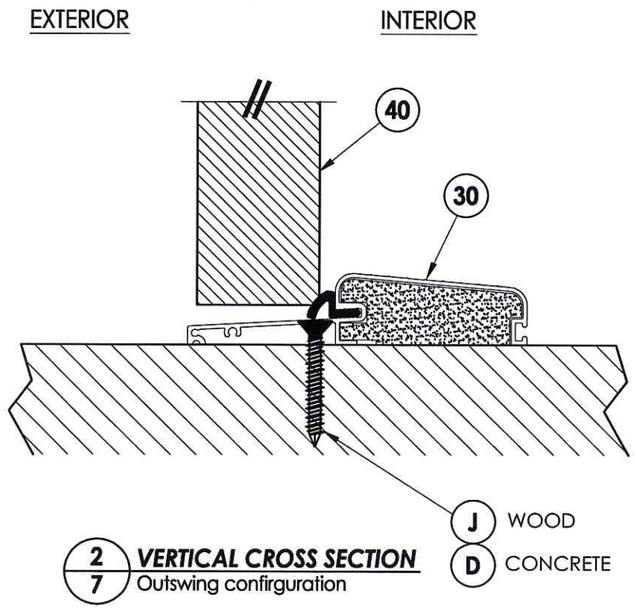
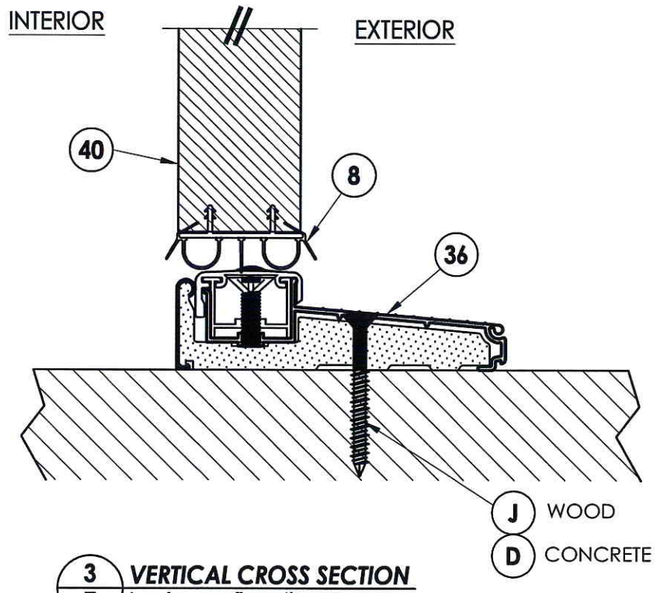


1/7 **VERTICAL CROSS SECTION**
Outswing shown - inswing also approved



2/7 **VERTICAL CROSS SECTION**
Outswing confirguration



3/7 **VERTICAL CROSS SECTION**
Inswing configuration

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
12.3.12

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: *FIBERGLASS DOOR*

PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 7 OF 10

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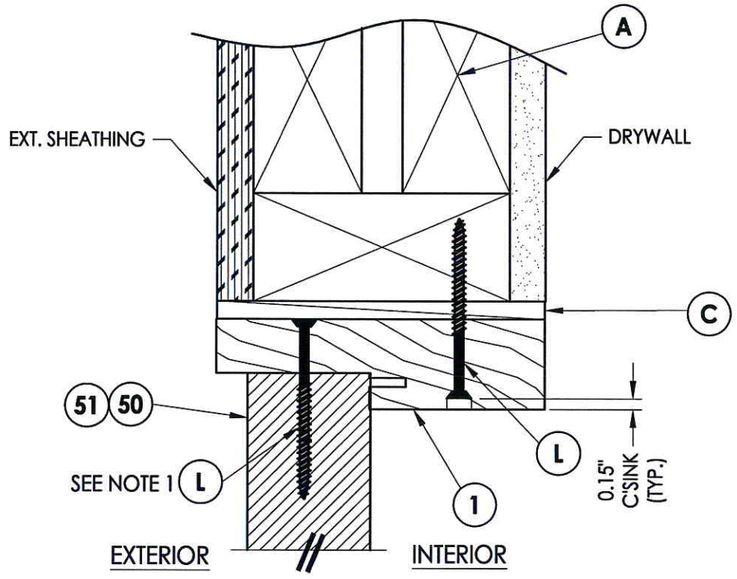
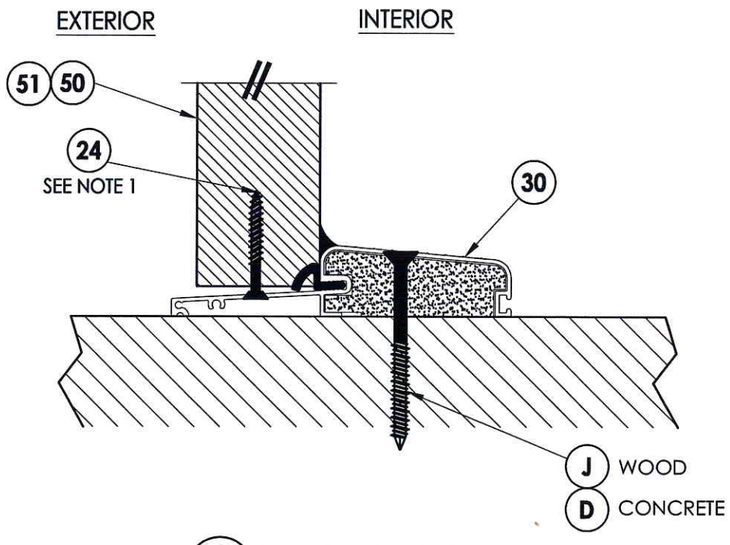
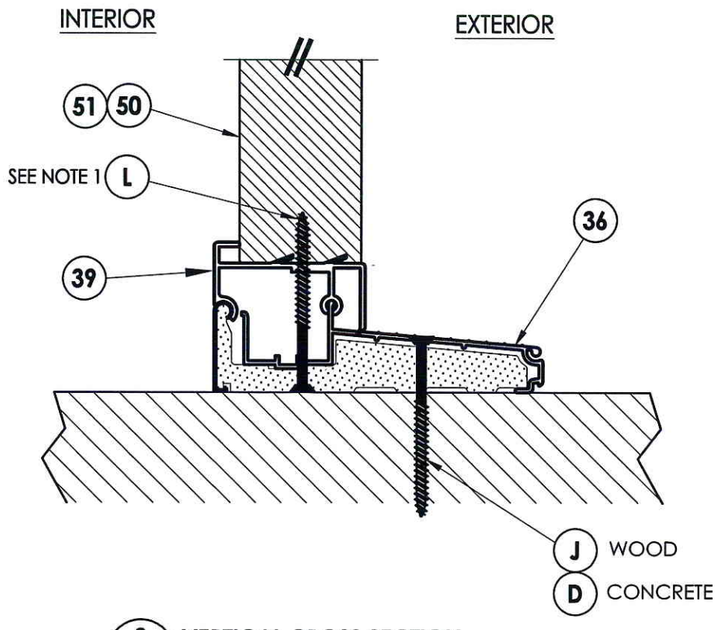


1/8 VERTICAL CROSS SECTION
Outswing shown - Inswing also approved



2/8 VERTICAL CROSS SECTION
Outswing shown



3/8 VERTICAL CROSS SECTION
Inswing shown

NOTE:
1. Sidelite panel screws located 3" from each end (2 Total). Not required for Sidelites less than 14" in width.

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER

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Phone No.: 813.659.9197

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

PRODUCT: *FIBERGLASS DOOR*

PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4169
SHEET 8 OF 10

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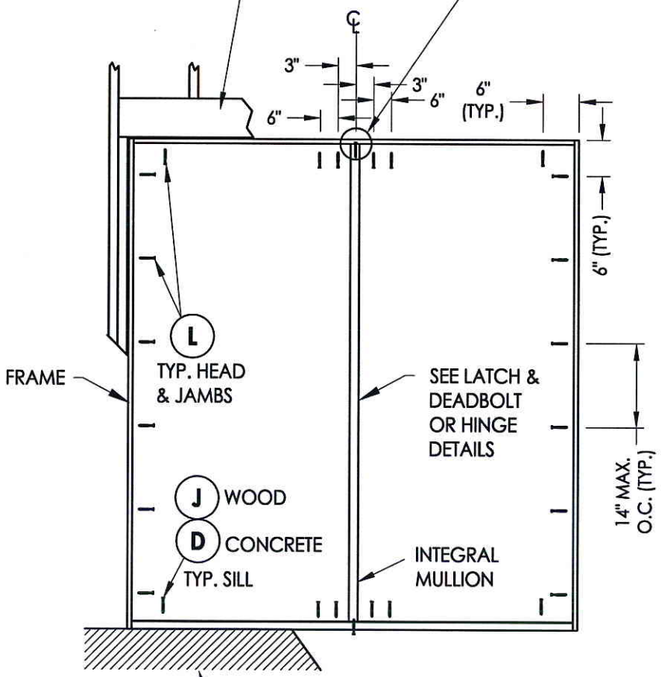
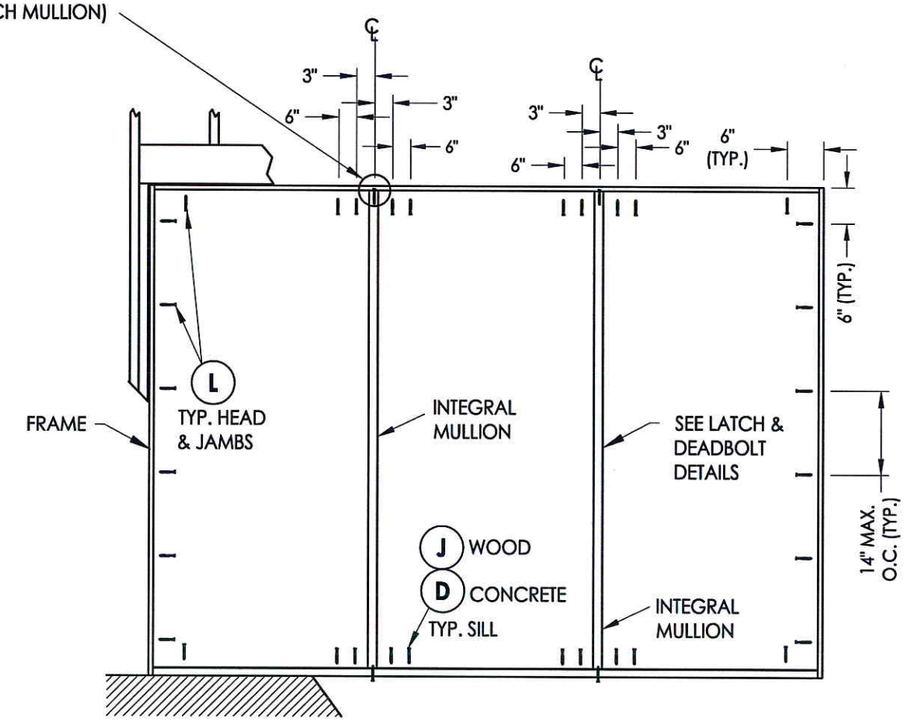
2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED (TYP.).

SEE INTEGRAL MULLION ATTACHMENT DETAIL (TYP. EACH END OF EACH MULLION)

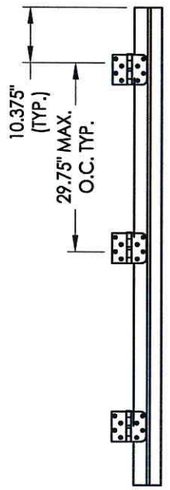


FRAME ANCHORING
OX/XO

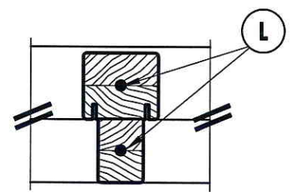
FLOOR SUBSTRATE MATERIAL (TYP.)
CONCRETE (MIN. 3000 PSI)
WOOD (G >= 0.42)



FRAME ANCHORING
OXO



HINGE LOCATIONS



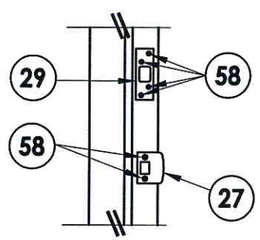
INTEGRAL MULLION ATTACHMENT DETAIL

CONCRETE ANCHOR NOTES:

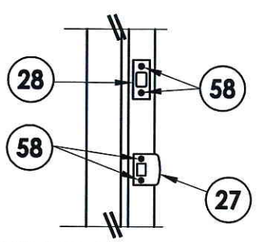
1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.*

Concrete anchor table:

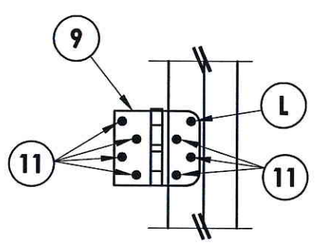
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	3"



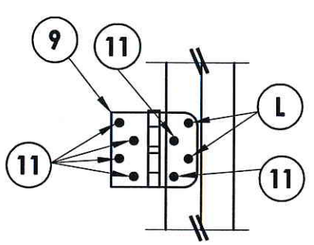
LATCH AND DEADBOLT DETAIL
Kwikset



LATCH AND DEADBOLT DETAIL
Schlage / Pamex



HINGE DETAIL
Outswing



HINGE DETAIL
Inswing

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
12-3-12

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: *FIBERGLASS DOOR*

PART OR ASSEMBLY: *FRAME ANCHORING*

NO.	DATE	REVISIONS	BY
1	11/27/12	REVISED GLAZING/HARDWARE	LFS

DATE: 06/20/12
SCALE: N.T.S.
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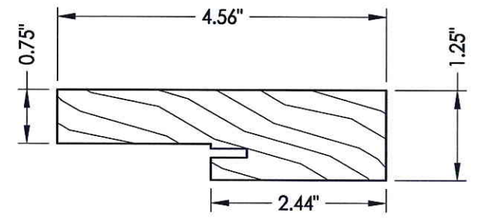
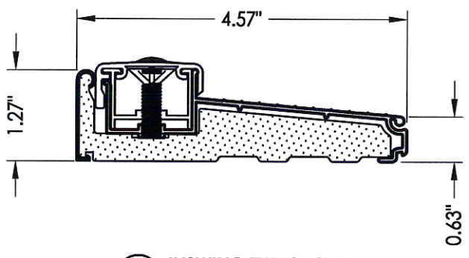
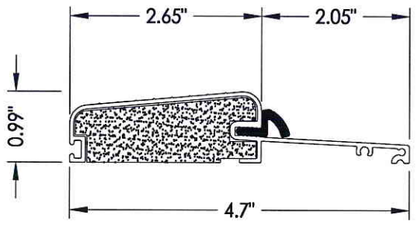
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL
1	HEAD & JAMB - FINGER-JOINT PINE (G >= 0.42)	WOOD
2	INTEGRAL MULLION - FAT BOY (PINE)	WOOD
7	WEATHERSTRIP (Q'LON QEBD-650)	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#10 X 1-1/2" PFH WOOD SCREW	STEEL
25	#10 X 2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
30	OUTSWING THRESHOLD	ALUM/COMP
36	INSWING THRESHOLD	ALUM/COMP
39	SIDELITE SPACER - INSWING	PVC
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
51	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
58	#8 X 2-1/2" PFH WOOD SCREW	STEEL



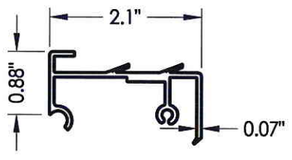
1 HEAD & JAMB
Finger joint pine



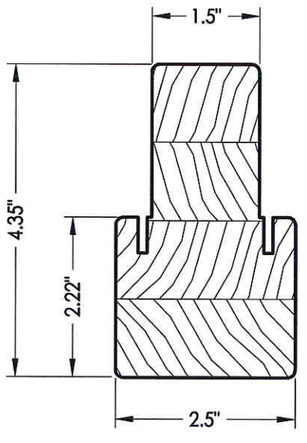
36 INSWING THRESHOLD
Columbia 900 Series



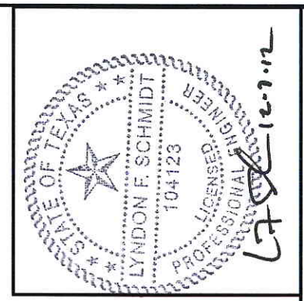
30 OUTSWING THRESHOLD
Columbia 775 Series
w/ Composite Substrate



39 SIDELITE SPACER
Inswing



2 INTEGRAL MULLION



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

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