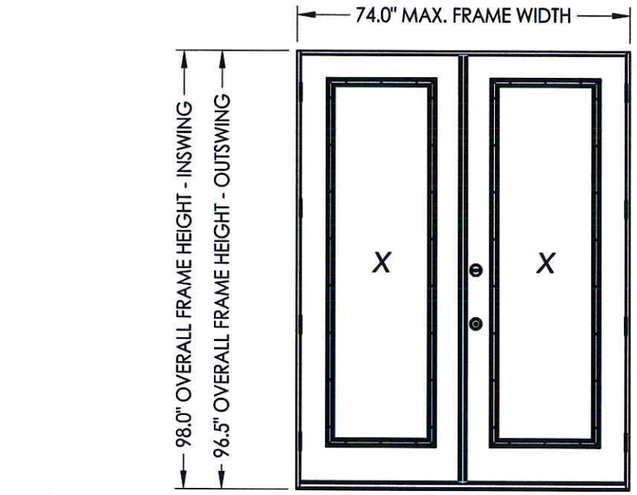
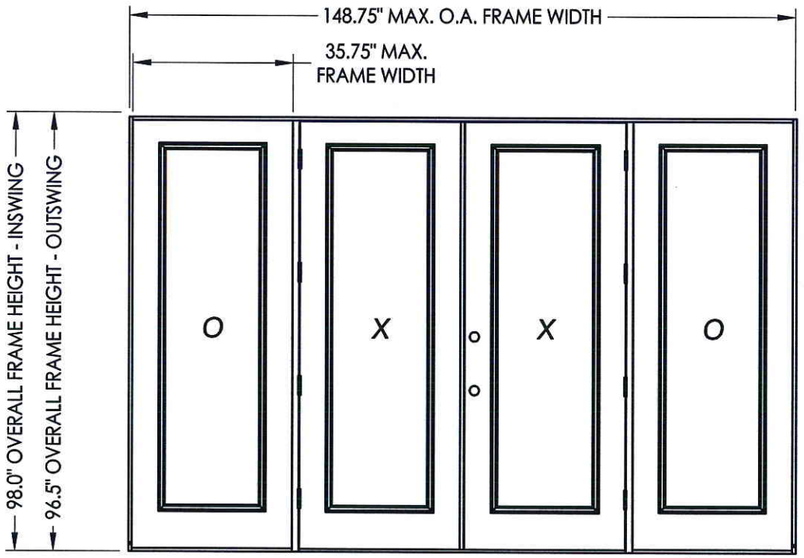
215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

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.

TABLE OF CONTENTS

SHEET #	*DESCRIPTION*
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details
4	Lite frame and glazing details
5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Vertical cross sections
9	Frame anchoring
10	Astragal details
11	Bill of materials & components

CONFIGURATION	*MAX. FRAME DIMENSION*	*ASTRAGAL*	*DESIGN PRESSURE (PSF) INSWING*		*DESIGN PRESSURE (PSF) OUTSWING*	
			POSITIVE	*NEGATIVE*	*POSITIVE*	*NEGATIVE*
XX	74.0" x 98.0"	COLUMBIA	+30.0	-30.0	+30.0	-30.0
	74.0" x 98.0"	DLP	+30.0	-35.0	+30.0	-30.0
OXXO	148.75" x 98.0"	DLP	+30.0	-30.0	+30.0	-30.0

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
11-29-13

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

NO.	DATE	BY
REVISIONS		

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 1 OF 11

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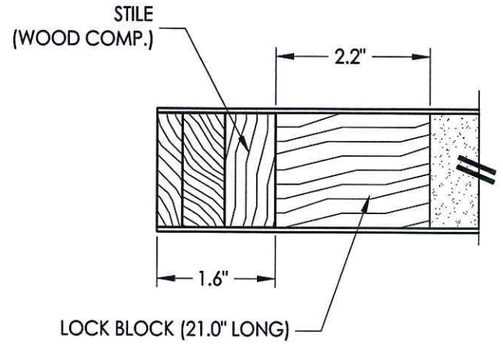
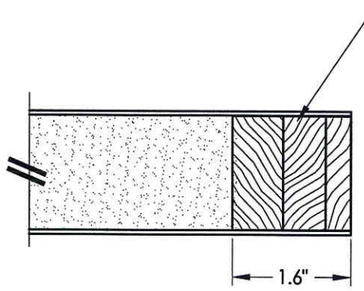
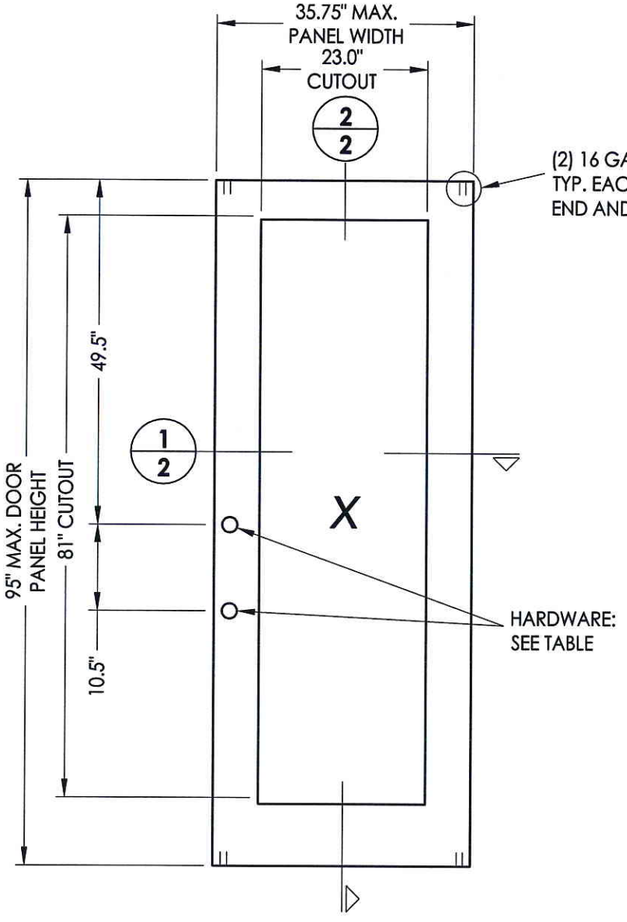


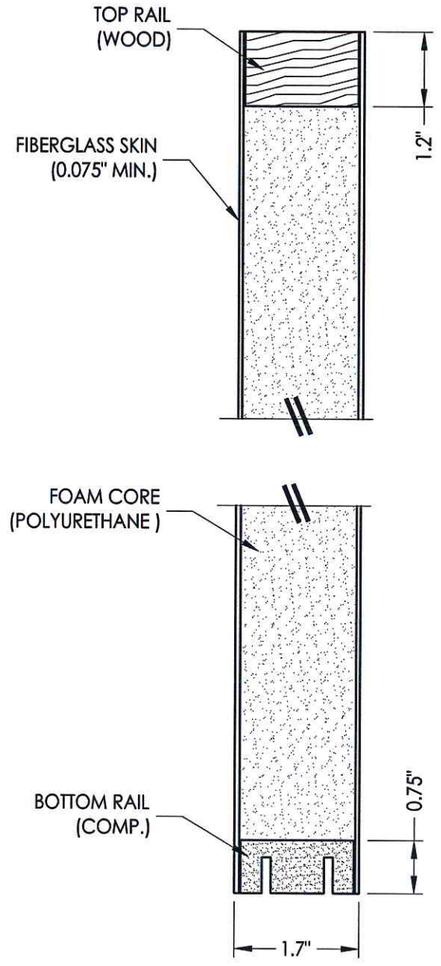


1/2 **HORIZONTAL CROSS SECTION**



40 **DOOR PANEL**
Masonite Fiberglass Door

HARDWARE TABLE			
MANUFACTURER	MODEL		MAX. DESIGN PRESSURE
KWIKSET	KNOB: DEADBOLT:	SIGNATURE SERIES SIGNATURE SERIES (980)	35 PSF
SCHLAGE	KNOB: DEADBOLT:	F SERIES B SERIES	35 PSF
PAMEX	KNOB: DEADBOLT:	FT SERIES FD7 SERIES	30 PSF



2/2 **VERTICAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
4.29.13

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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	BY
REVISIONS		

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 2 OF 11

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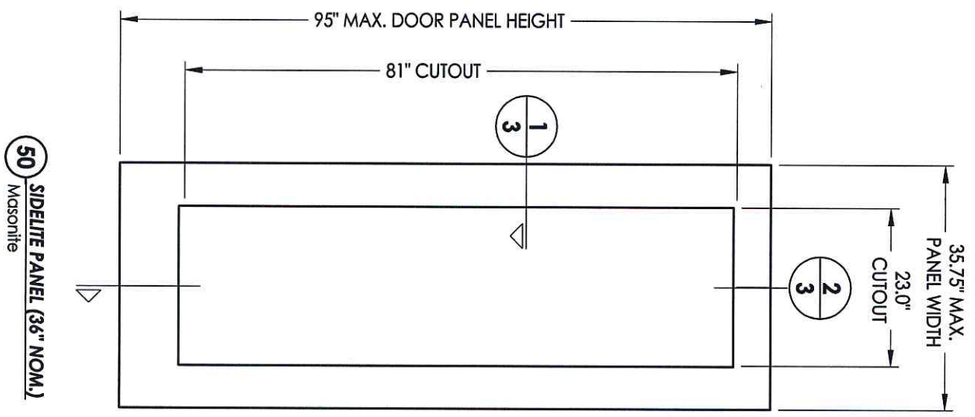
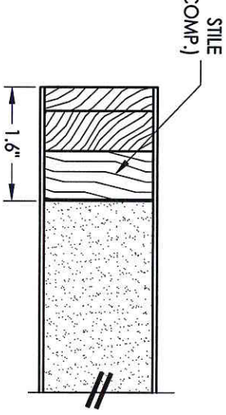
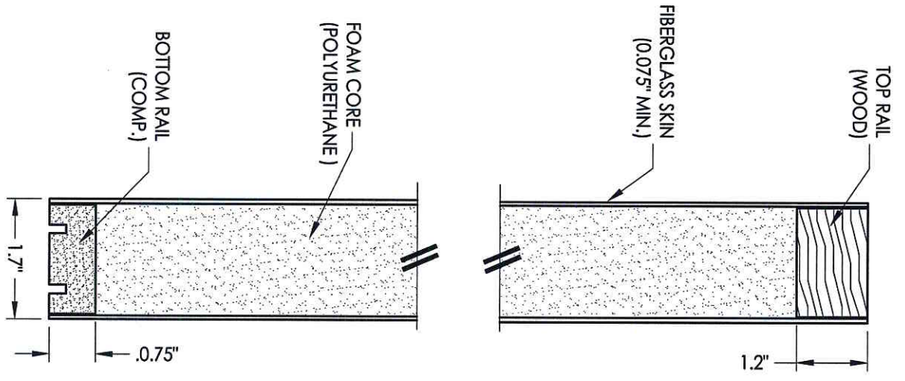


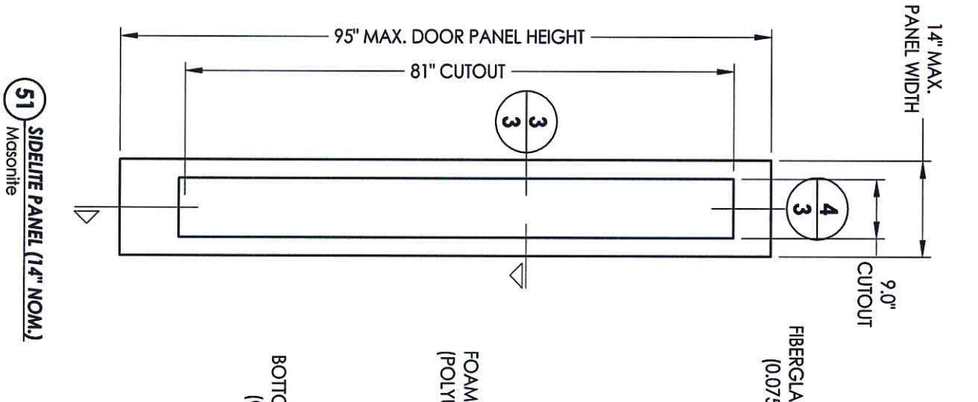
50 SIDELITE PANEL (36" NOM.)
Masonite



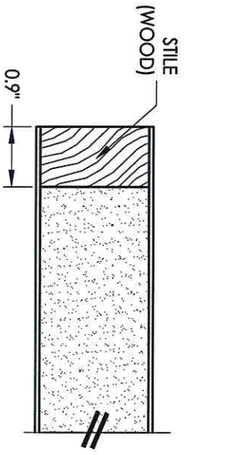
1/3 HORIZONTAL CROSS SECTION



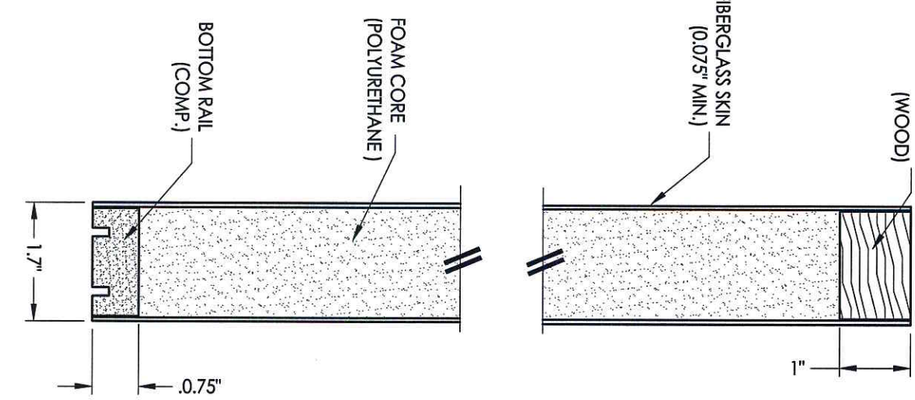
2/3 VERTICAL CROSS SECTION



51 SIDELITE PANEL (14" NOM.)
Masonite



3/3 HORIZONTAL CROSS SECTION



4/3 VERTICAL CROSS SECTION

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
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4.29.13

DATE:	11/28/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4282
SHEET	3 OF 11

NO.	DATE	BY
REVISIONS		

PRODUCT:
FIBERGLASS DOOR

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

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

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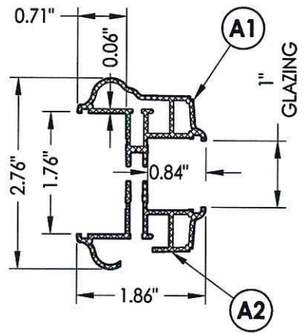
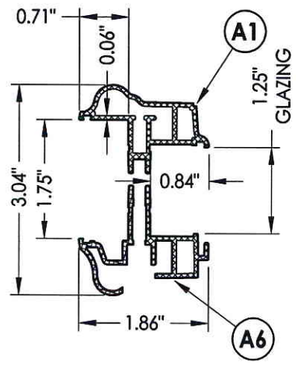
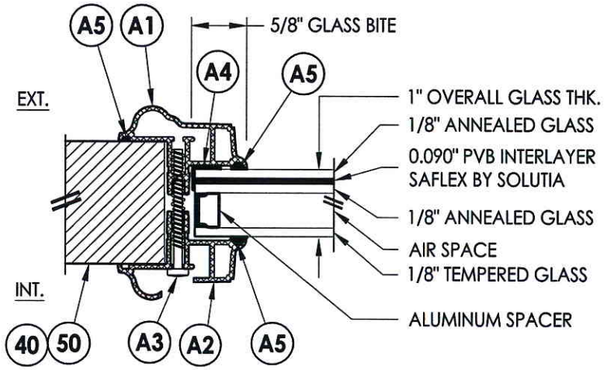


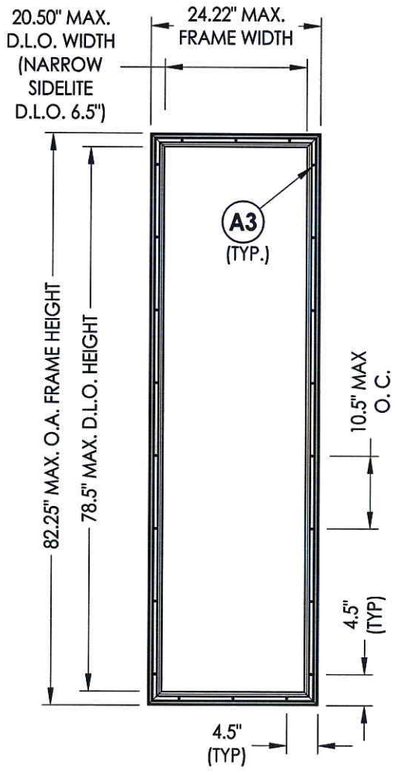
ODL LITE FRAME CROSS SECTION
1" GLAZING



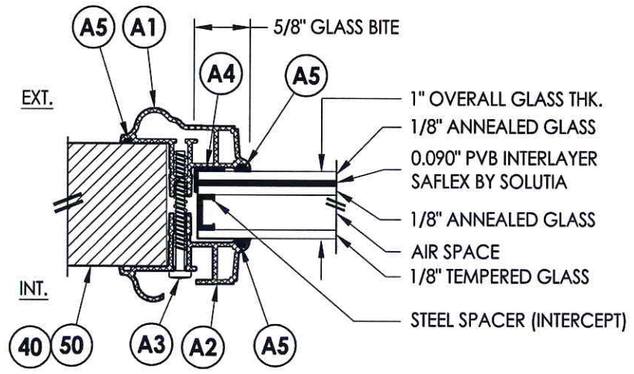
ODL LITE FRAME CROSS SECTION
1.25" GLAZING



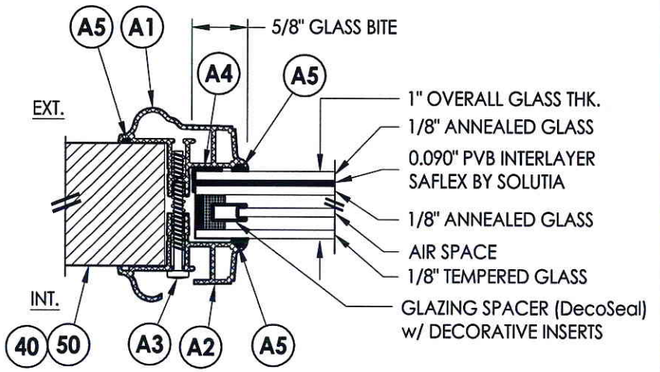
G1 GLAZING DETAIL



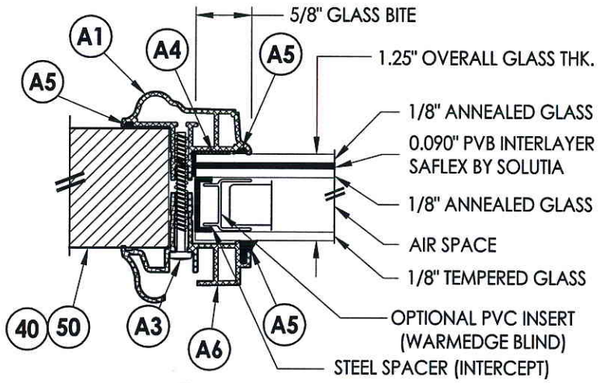
ODL LITE FRAME



G2 GLAZING DETAIL



G3 GLAZING DETAIL



G4 GLAZING DETAIL

MAX. DESIGN PRESSURE FOR G4 GLAZING
INSWING = +30/-30 PSF
OUTSWING = +30/-30 PSF

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.

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
4-29-13

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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

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 4 OF 11

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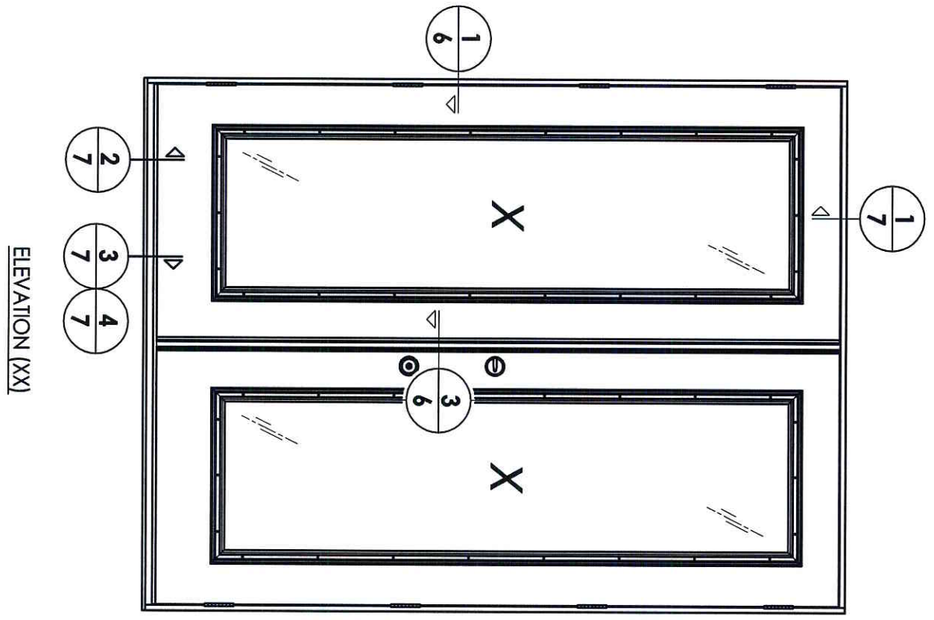
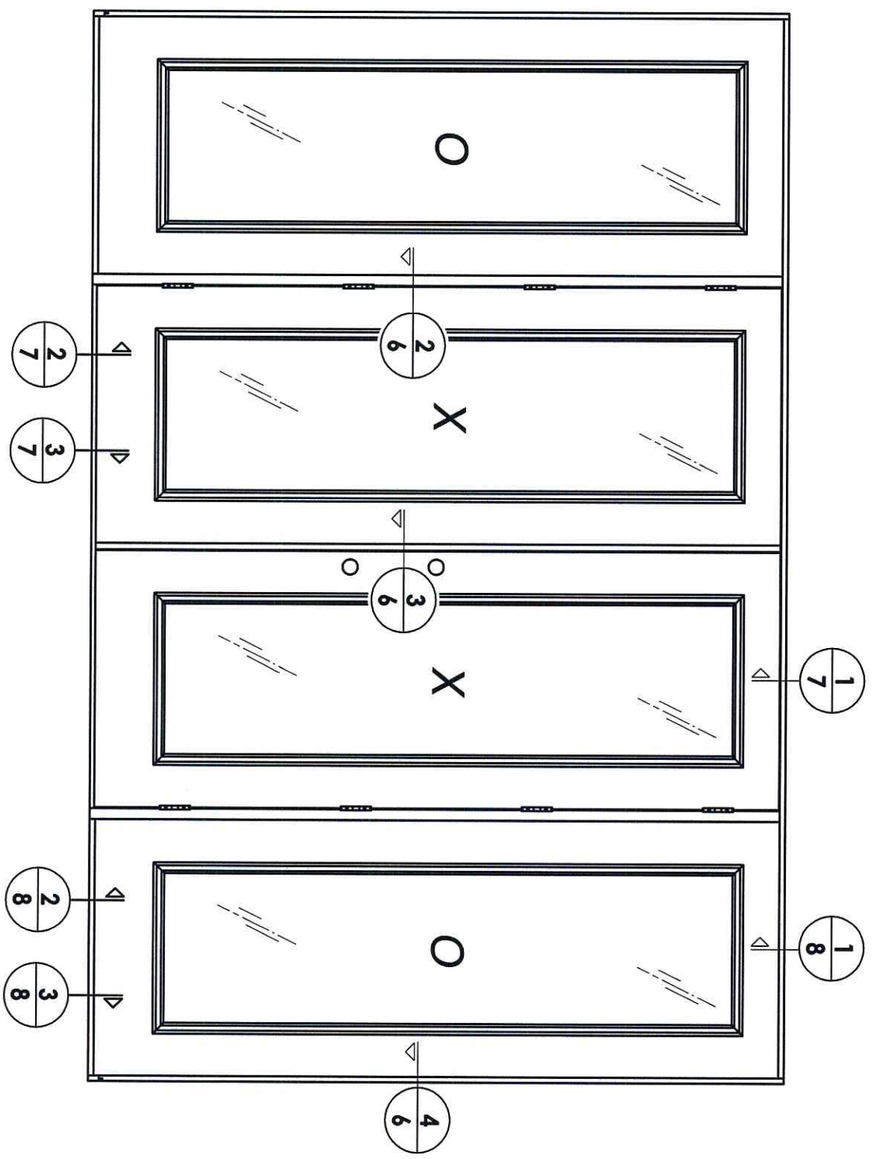


ELEVATION (XX)



ELEVATION (OXXO)

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
4.29.13

DATE:	11/28/12	PRODUCT:	FIBERGLASS DOOR
SCALE:	N.T.S.	PART OR ASSEMBLY:	ELEVATIONS
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	TX-4282		
SHEET	5 OF 11		

NO.	DATE	BY
	REVISIONS	

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

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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

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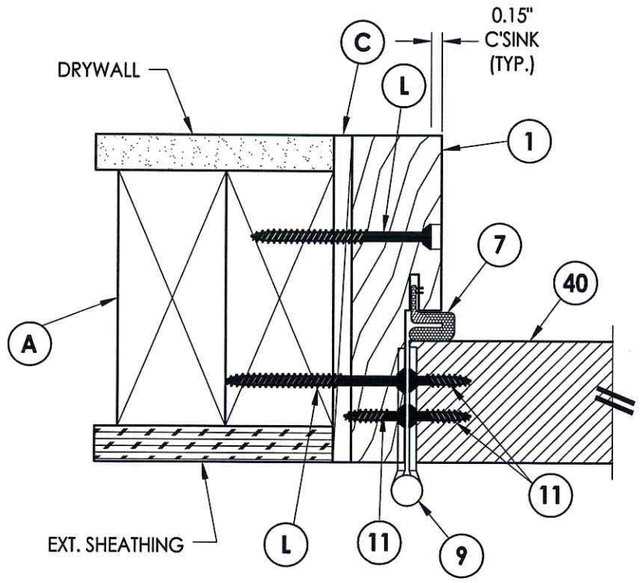
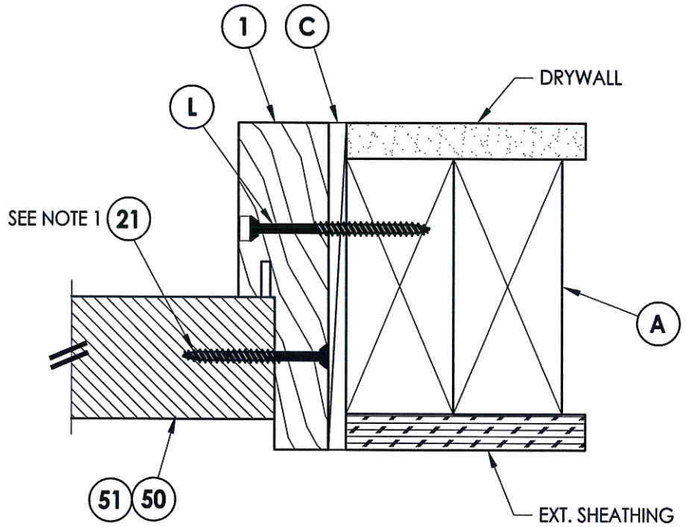


INTERIOR

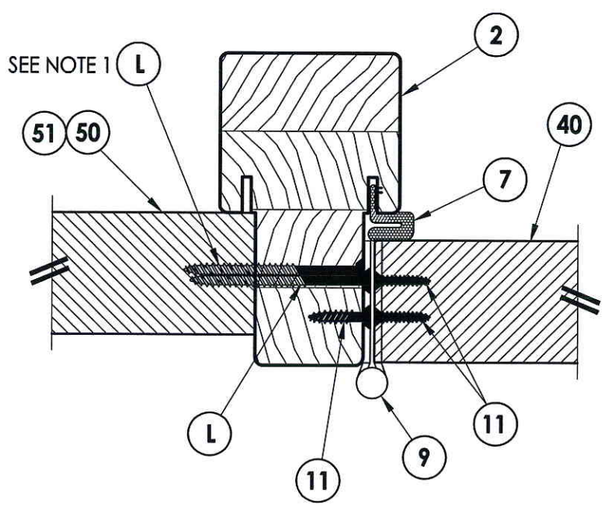
EXTERIOR

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



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

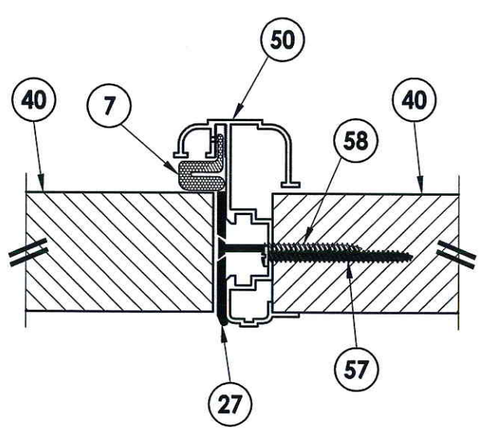
NOTE:
1. Sidelite panel screws located 6" from each end plus 5 more equally spaced (7 screws total)



INTERIOR

EXTERIOR

2/6 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
4.29.13

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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: HORIZONTAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 6 OF 11

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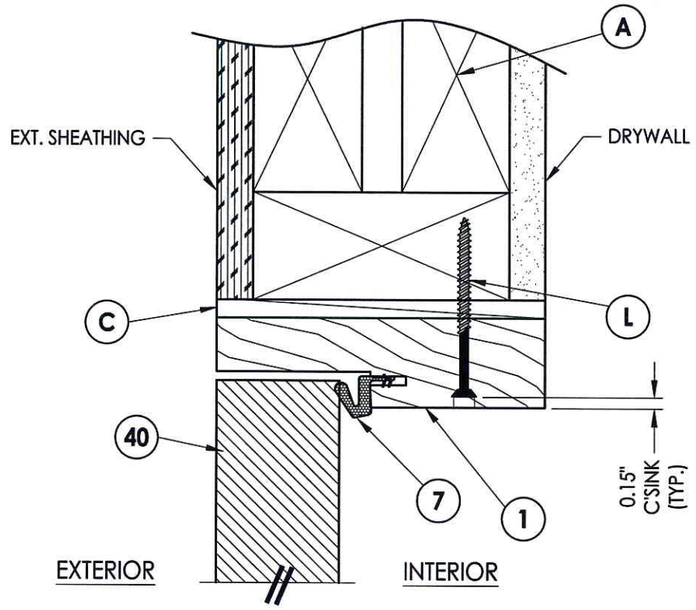
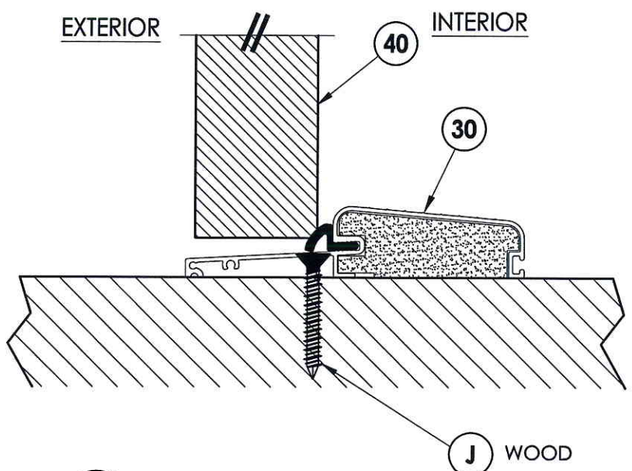
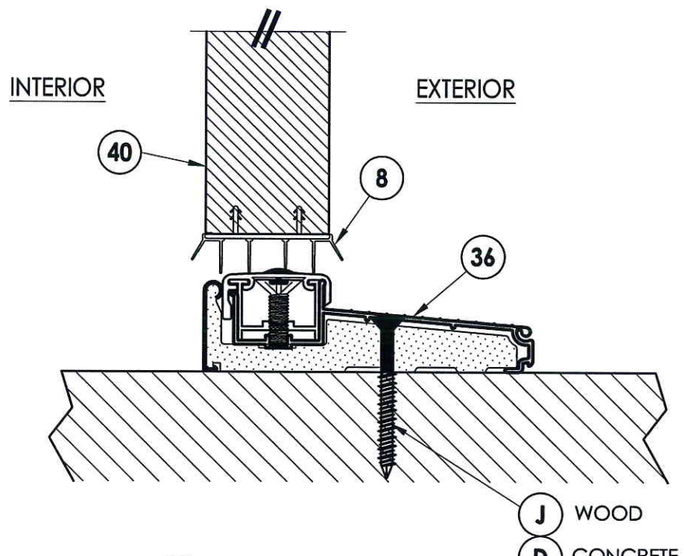


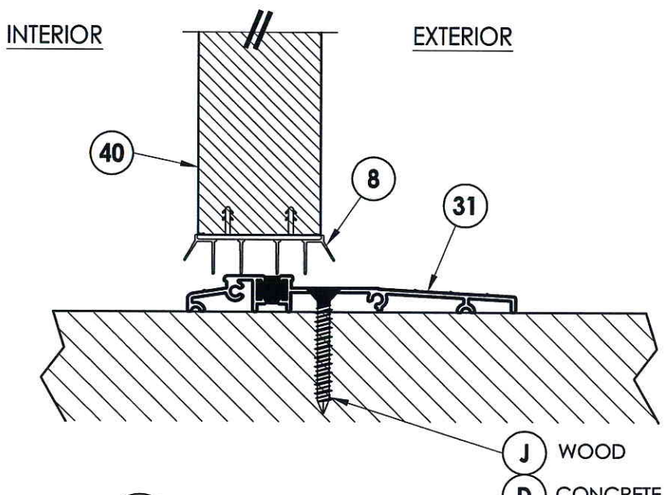
1/7 **VERTICAL CROSS SECTION**
Outswing shown - inswing also approved



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



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



4/7 **VERTICAL CROSS SECTION**
Use ADA sill on Double door (XX) only

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CERTIFICATE OF REGISTRATION # F-11852

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER
4-9-13

PRODUCT: *FIBERGLASS DOOR*
PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS*

NO.	DATE	BY
REVISIONS		

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 7 OF 11

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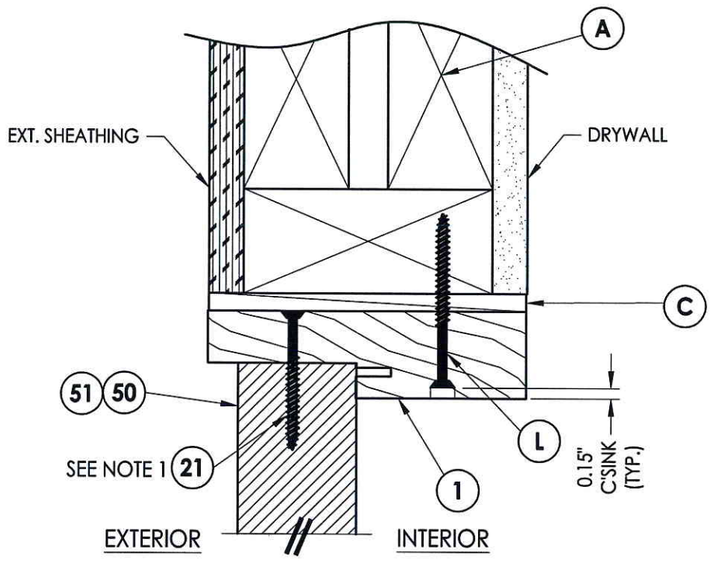
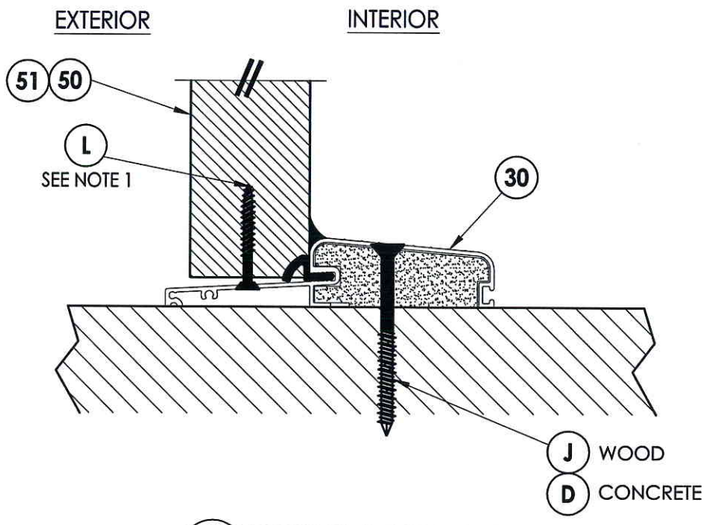
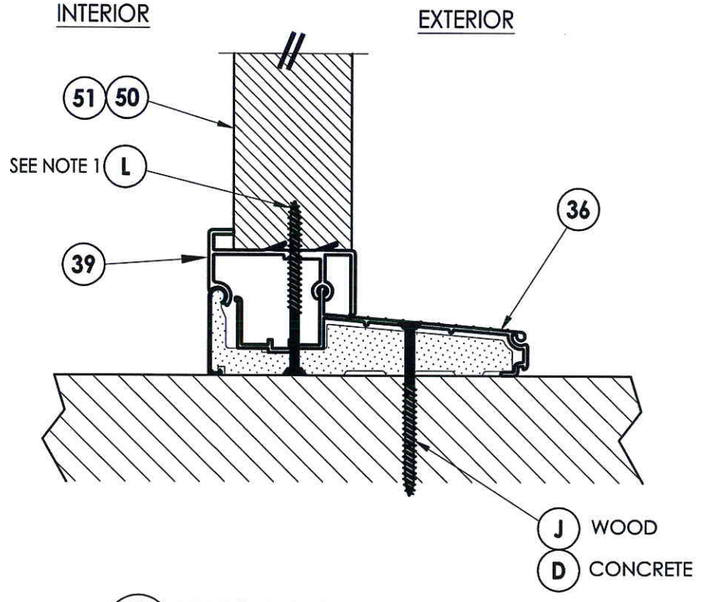


1/8 VERTICAL CROSS SECTION
Outswing shown - Inswing also approved



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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4-29-13

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY
	REVISIONS	

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 8 OF 11

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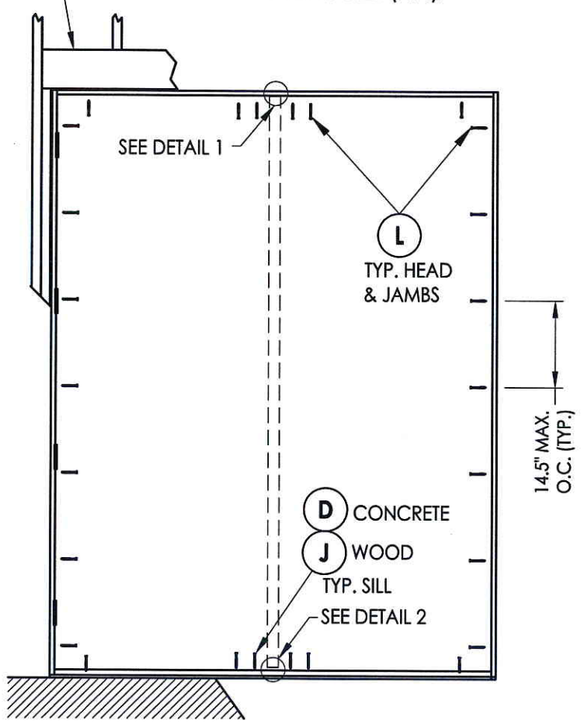
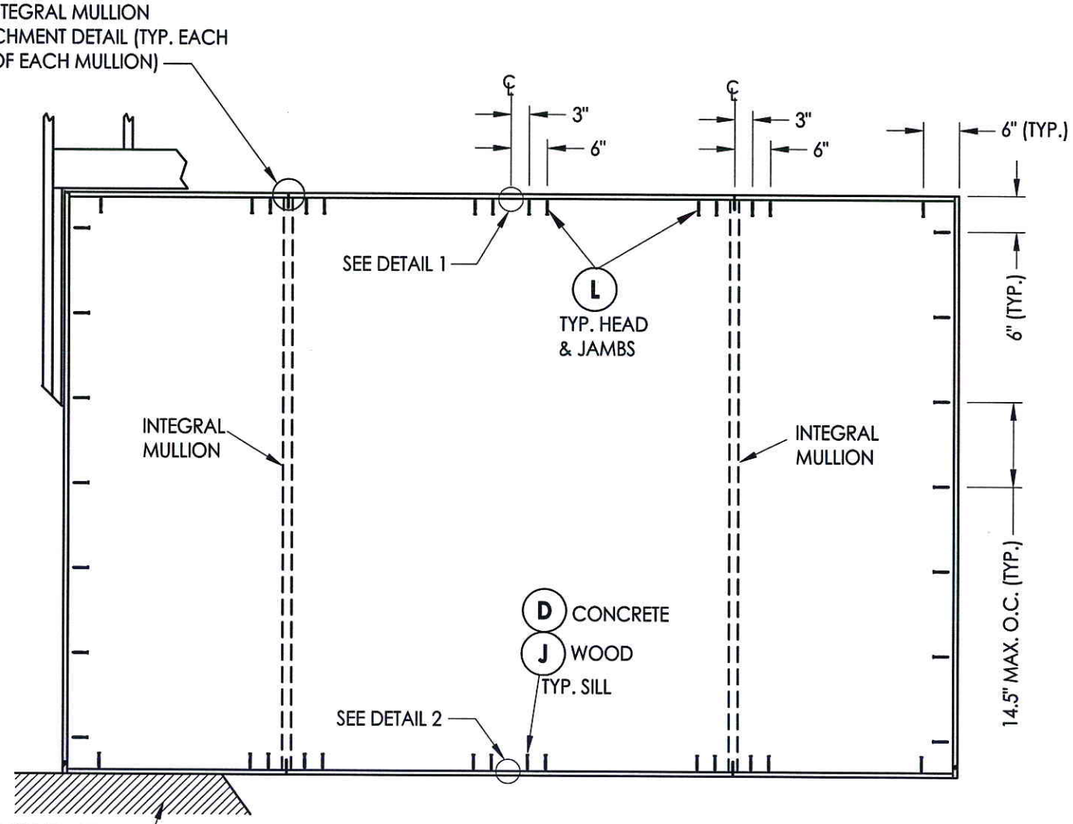


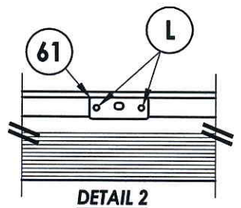
FRAME ANCHORING
XX



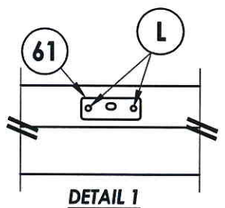
FRAME ANCHORING
OXXO

DETAIL 2
Astragal strike @ sill (Outswing)

HINGE DETAIL

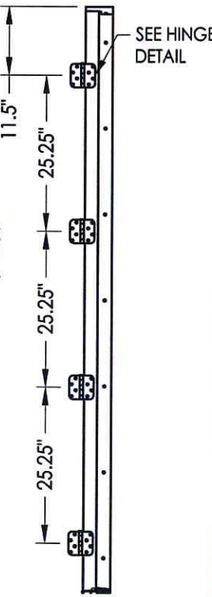


DETAIL 2
Astragal strike @ sill (Inswing)

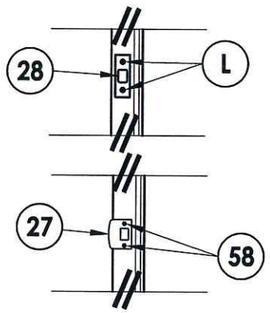


DETAIL 1
Astragal strike @ head

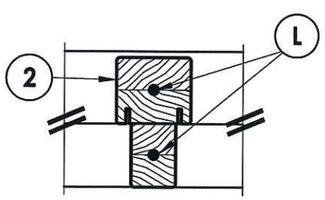
ASTRAGAL STRIKE JAMB



HINGE LOCATIONS



LATCH & DEAD BOLT DETAIL



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.*
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"

STATE OF TEXAS ★★★ LYNDON F. SCHMIDT 104123 LICENSED PROFESSIONAL ENGINEER
4.29.13

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

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 9 OF 11

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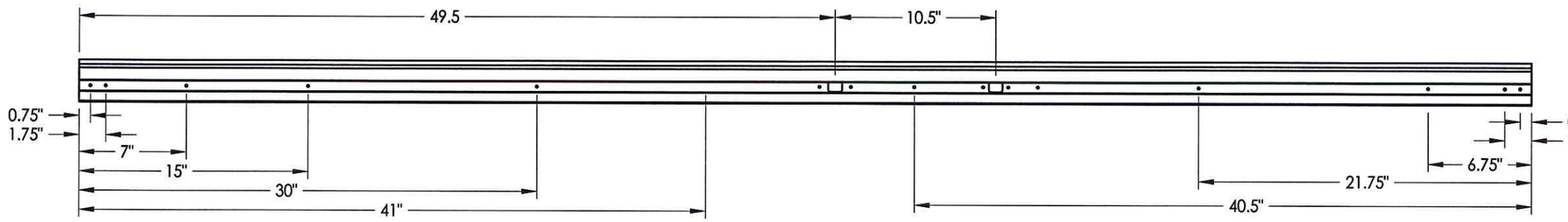
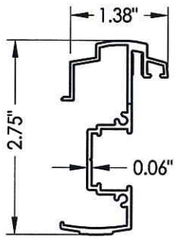
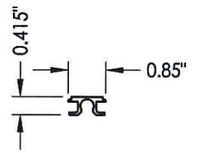


ASTRAGAL SCREW LOCATIONS

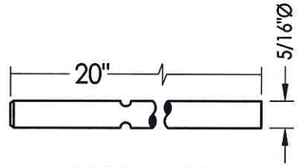


60 **ASTRAGAL**
Columbia

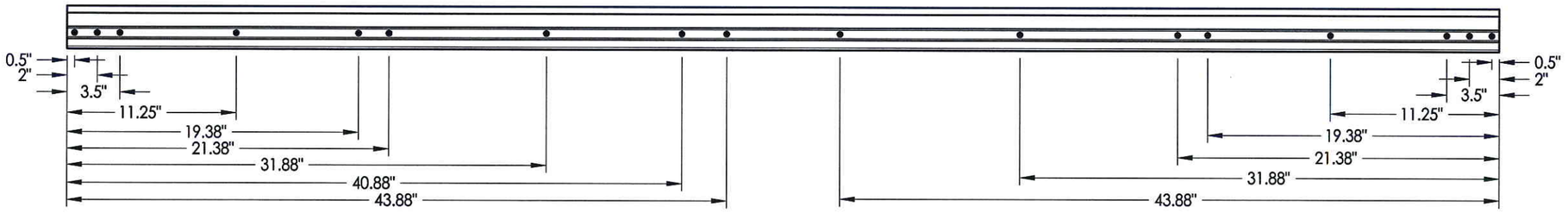
8'0 ALUMINUM ASTRAGAL ASSEMBLY
By Columbia



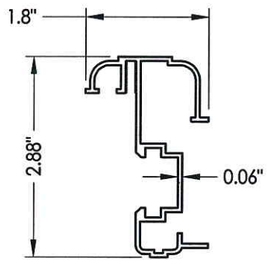
FLUSHBOLT RETAINER
Aluminum 6063-T5



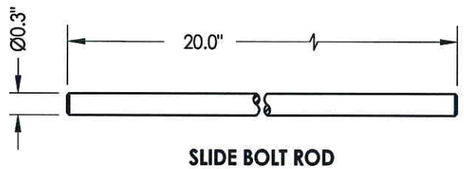
FLUSHBOLT ROD
Steel
(2" throw)



ASTRAGAL SCREW LOCATIONS

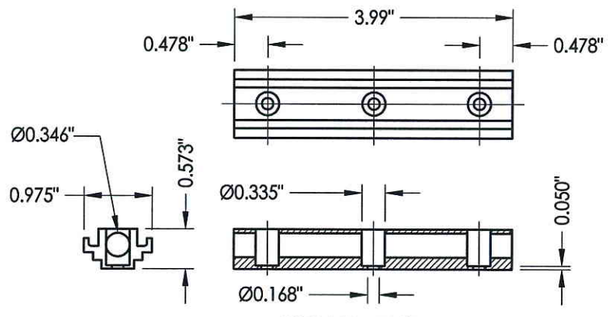


60 **ASTRAGAL**
DLP



SLIDE BOLT ROD
Typ. top & bottom of astragal
(2" throw)

8'0 ALUMINUM ASTRAGAL ASSEMBLY
By DLP



CONCEALED STIFFENER

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
4.29.13

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: *ASTRAGAL DETAILS*

NO.	DATE	BY	REVISIONS

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4282
SHEET 10 OF 11

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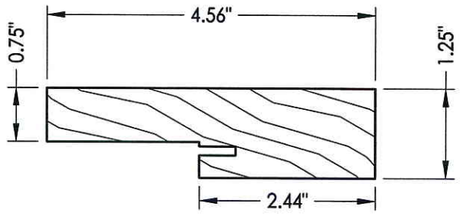
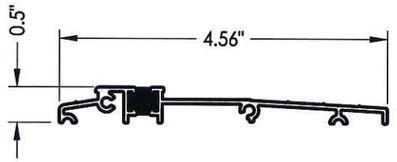
BILL OF MATERIALS

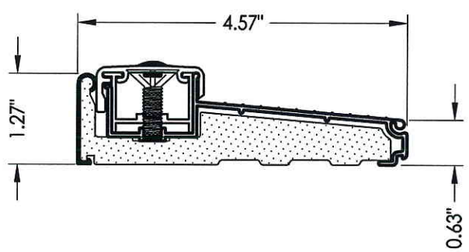
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL
1	HEAD & JAMB - FINGER-JOINT PINE	WOOD
2	INTEGRAL MULLION - FAT BOY (PINE)	WOOD
7	WEATHERSTRIP (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
21	#10 X 2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
30	OUTSWING THRESHOLD	ALUM/COMP
31	ADA THRESHOLD	ALUM
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	-
57	#8 X 2" PPH SMS	STEEL
58	#8 X 2-1/2" PFH WOOD SCREW	STEEL
60	ASTRAGAL (COLUMBIA OR DLP)	ALUM
61	ASTRAGAL STRIKE PLATE	STEEL



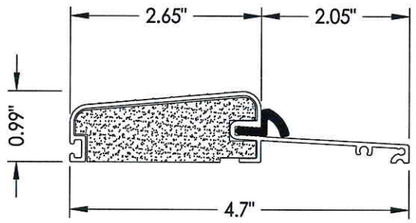
1 HEAD & JAMB
Finger joint pine



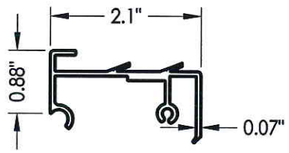
31 ADA THRESHOLD
Columbia



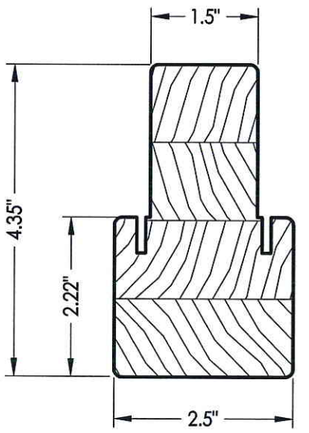
36 INSWING THRESHOLD
Columbia 900 Series



30 OUTSWING THRESHOLD
Columbia 775 Series
w/ Composite Substrate



39 SIDELITE SPACER
Inswing



2 INTEGRAL MULLION

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
4.29.13

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: FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

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SHEET 11 OF 11

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