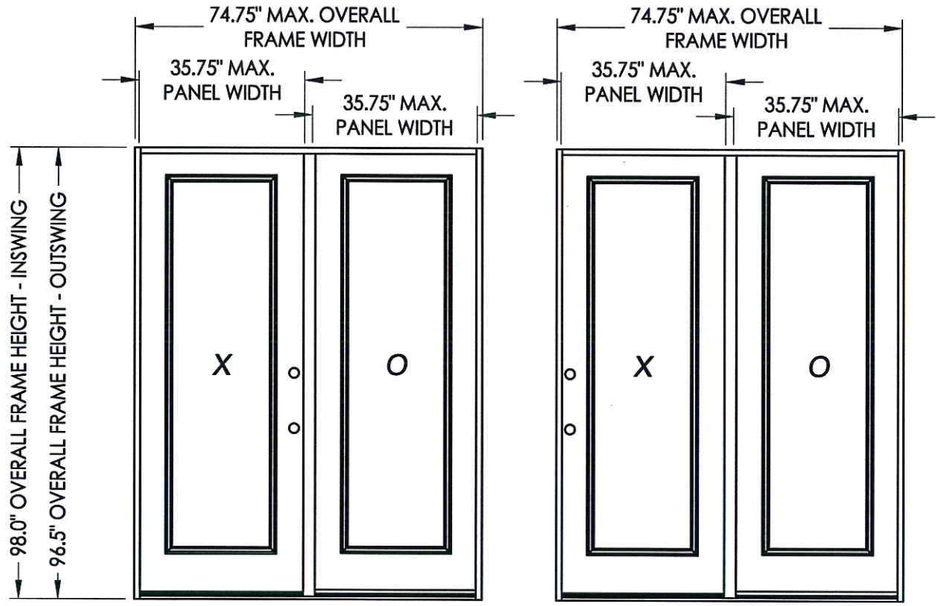
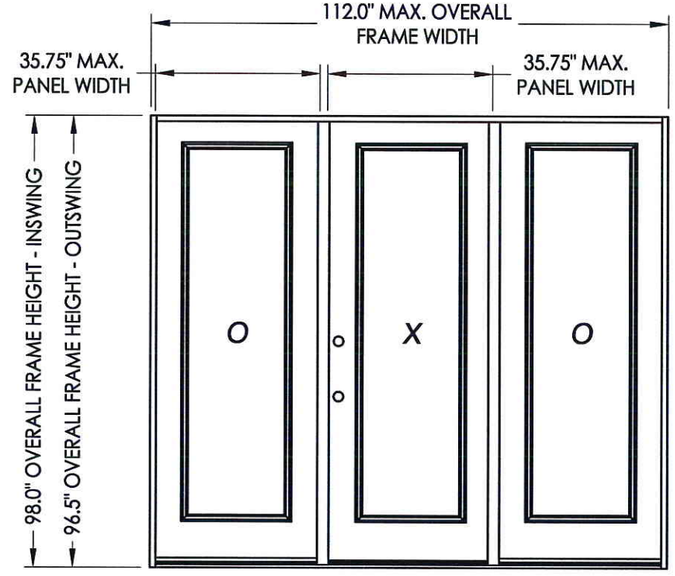
215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

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	Bill of materials & components

CONFIGURATION	*MAX. FRAME DIMENSION*	*DESIGN PRESSURE (PSF) INSWING*		*DESIGN PRESSURE (PSF) OUTSWING*	
		POSITIVE	*NEGATIVE*	*POSITIVE*	*NEGATIVE*
OX/XO	74.75" x 98.0"	+35.0	-40.0	+35.0	-35.0
OXO	112.0" x 98.0"	+35.0	-40.0	+35.0	-35.0

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

Documents Prepared By: Lyndon F. Schmidt, P.E.
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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: *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-4281
SHEET 1 OF 10

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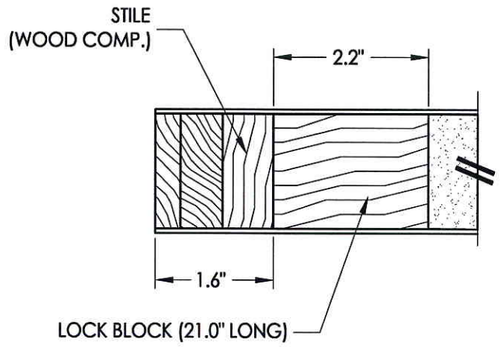
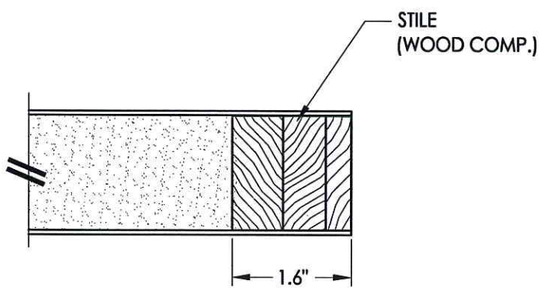
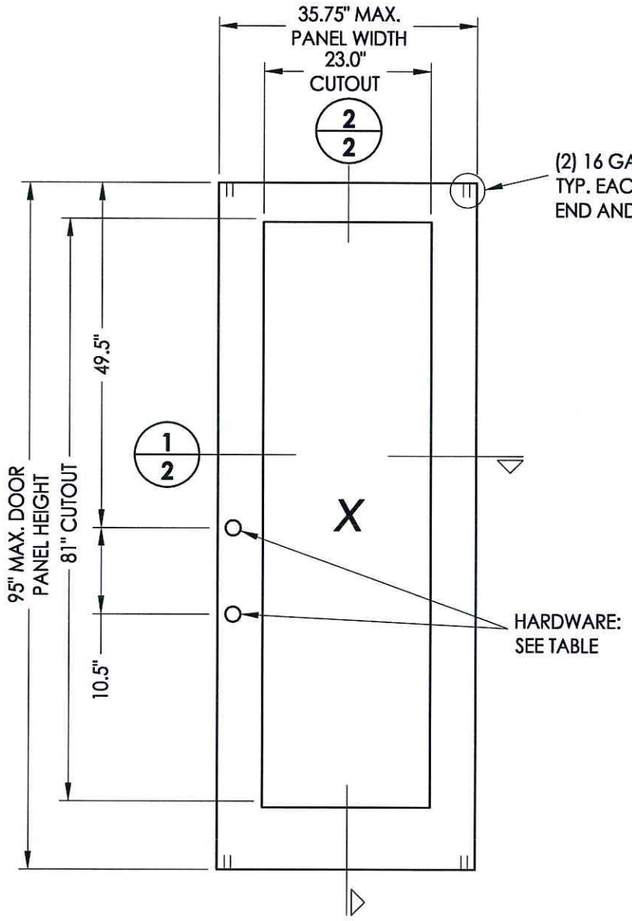


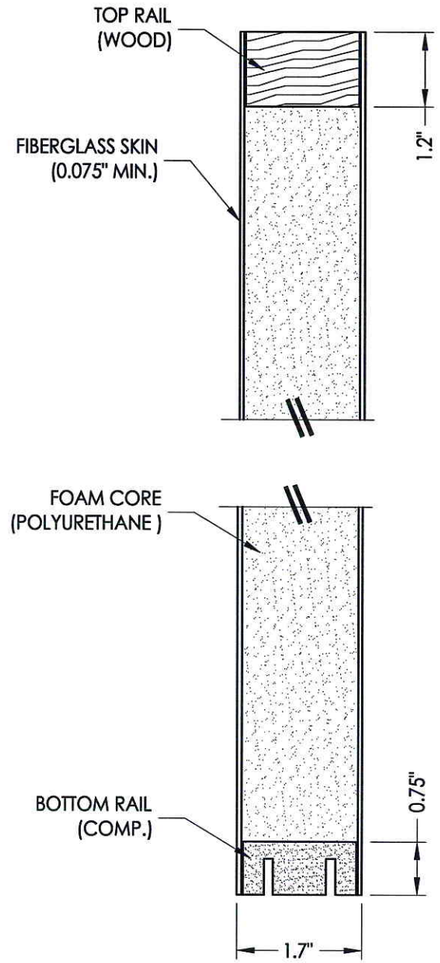


1/2 **HORIZONTAL CROSS SECTION**



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	40 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

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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-4281
SHEET 2 OF 10

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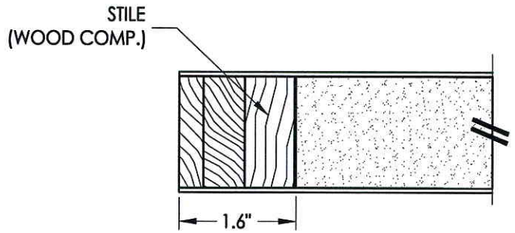
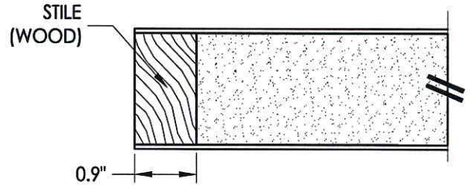


1/3 **HORIZONTAL CROSS SECTION**



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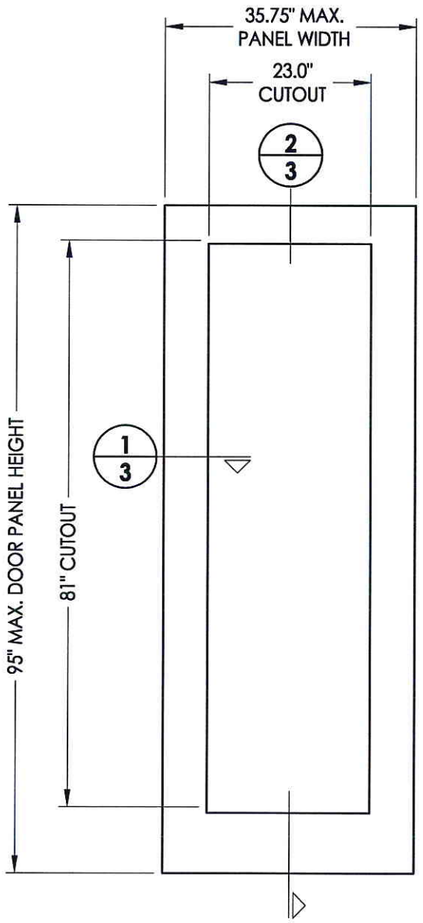
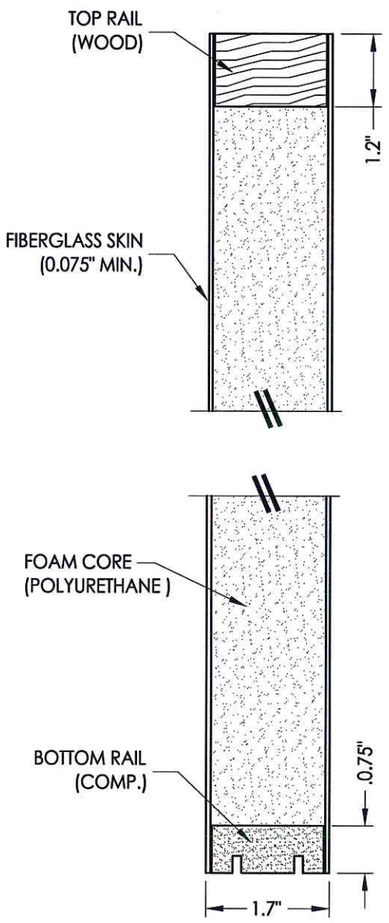
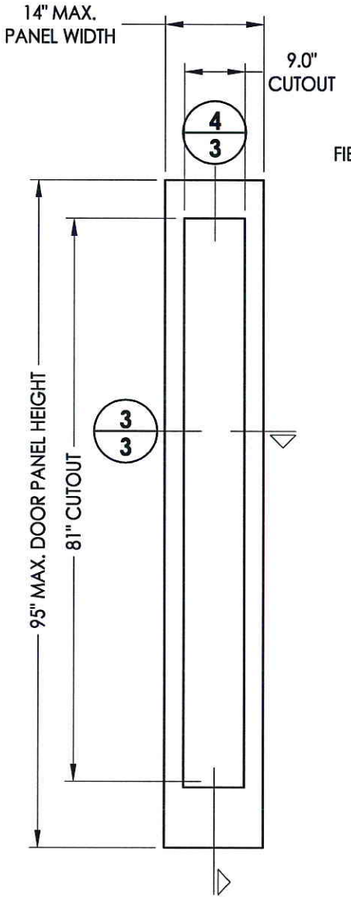


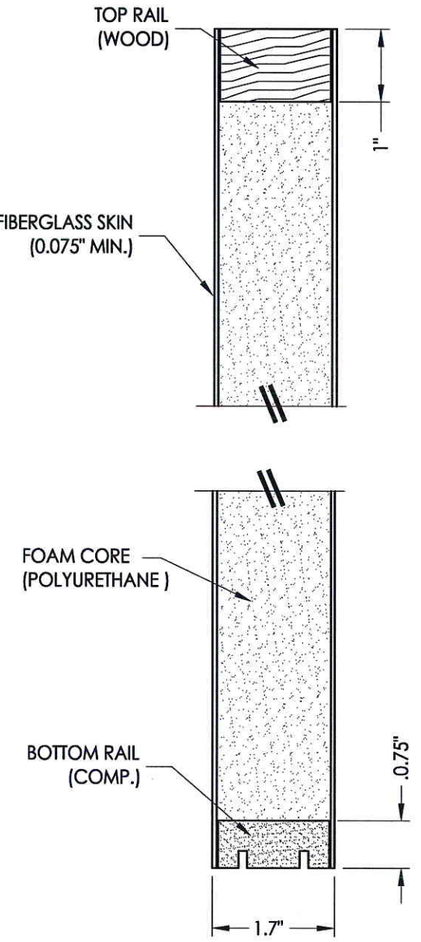
50 **SIDELITE PANEL (36" NOM.)**
Masonite



2/3 **VERTICAL CROSS SECTION**



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



4/3 **VERTICAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
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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	BY	REVISIONS

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4281
SHEET 3 OF 10

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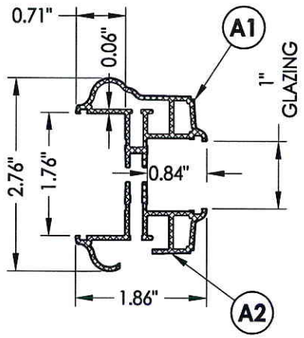
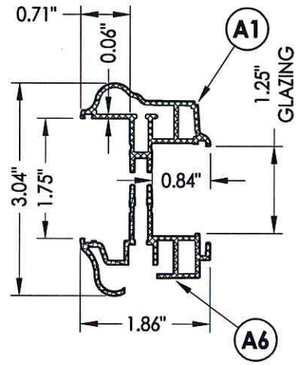
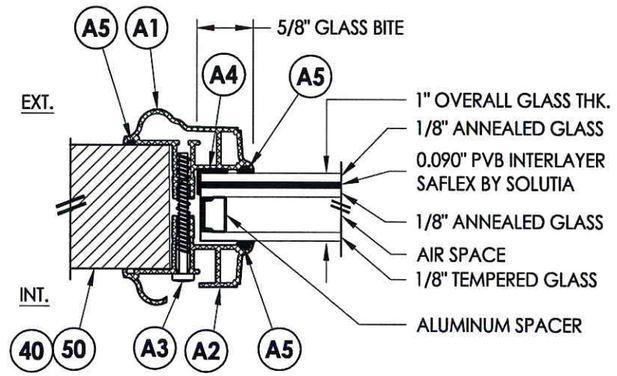


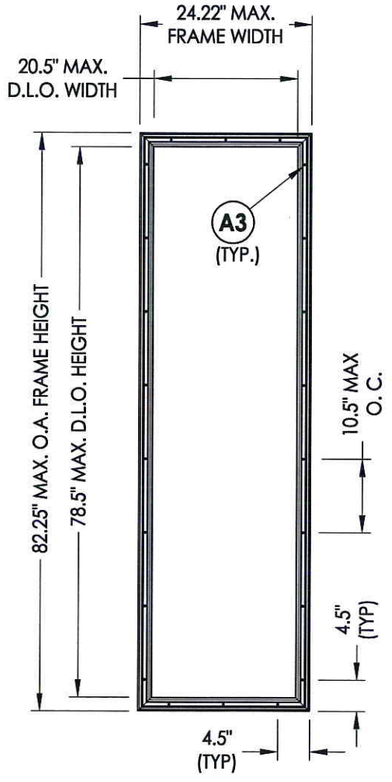
ODL LITE FRAME CROSS SECTION
1" GLAZING



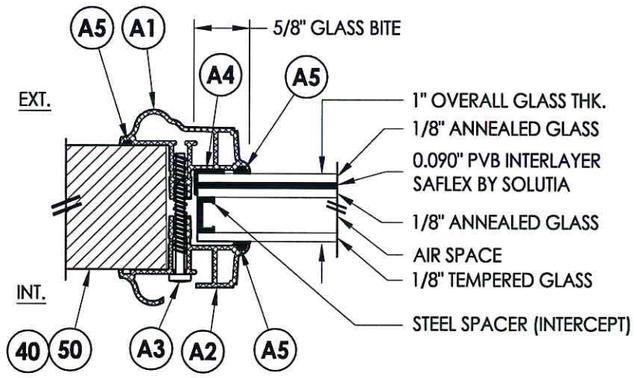
ODL LITE FRAME CROSS SECTION
1.25" GLAZING



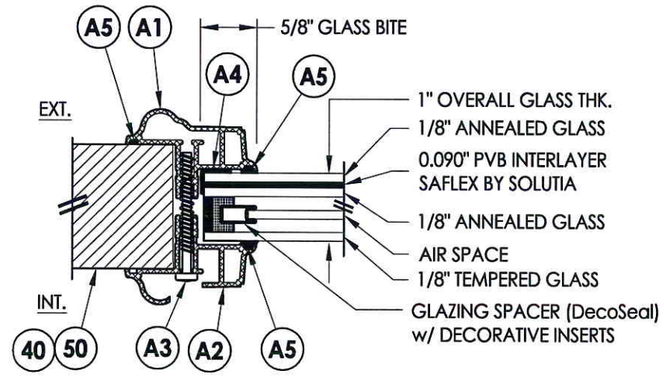
G1 GLAZING DETAIL



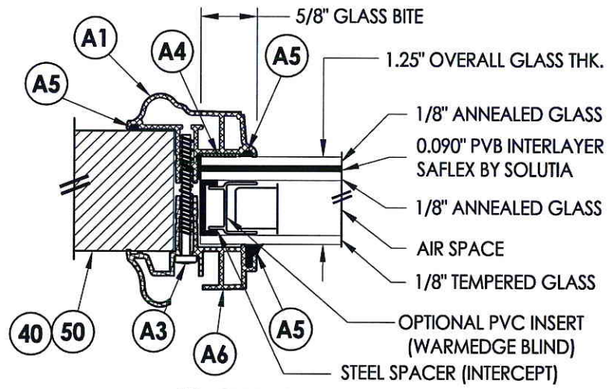
ODL LITE FRAME



G2 GLAZING DETAIL



G3 GLAZING DETAIL



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
12-28-12

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

PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: LITE FRAME & GLAZING DETAILS

NO.	DATE	BY	REVISIONS

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4281
SHEET 4 OF 10

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ELEVATION (XO - OX)

ELEVATION (XO - OX)
center hinge

ELEVATION (OXO)

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

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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

DATE: *11/28/12*
SCALE: *N.T.S.*
DWG. BY: *JK*
CHK. BY: *LFS*
DRAWING NO.: *TX-4281*
SHEET 5 OF 10

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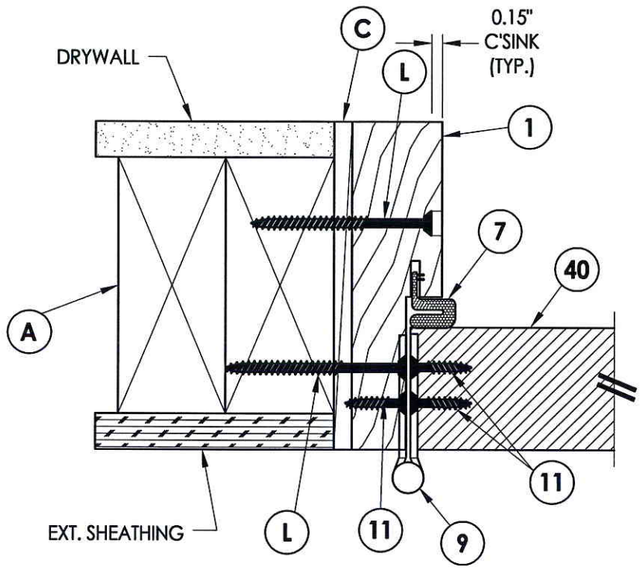
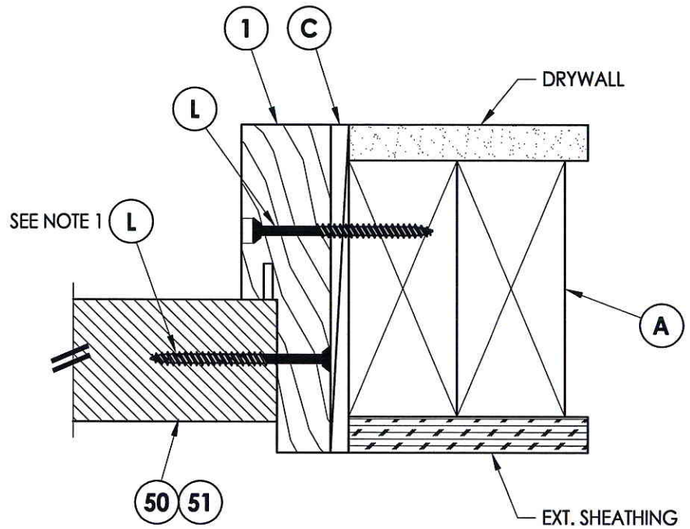


1/6 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved

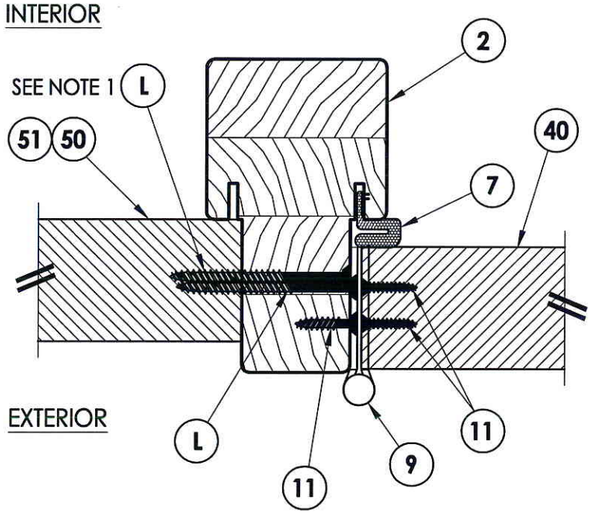
INTERIOR

EXTERIOR

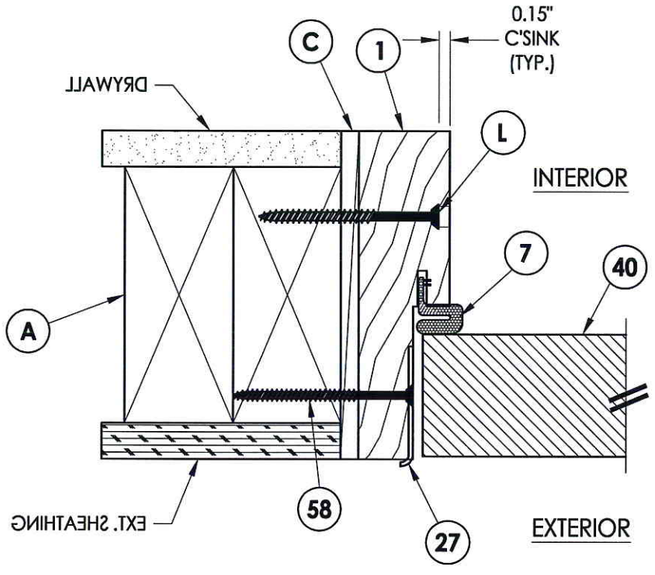


4/6 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved

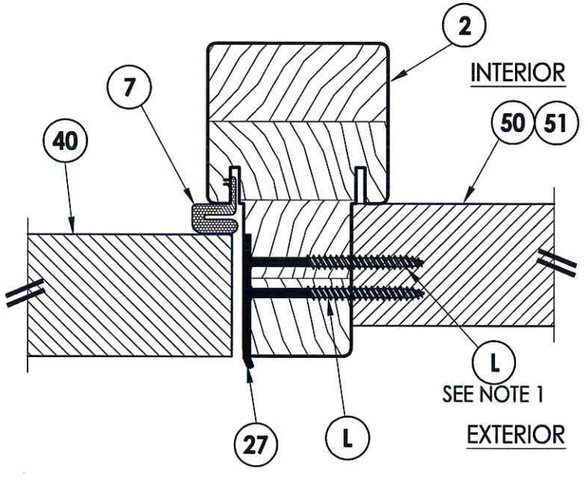
NOTE:
1. Sidelite panel screws located 6" from each end and equally spaced (4 screws total)



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

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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: *HORIZONTAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4281
SHEET 6 OF 10

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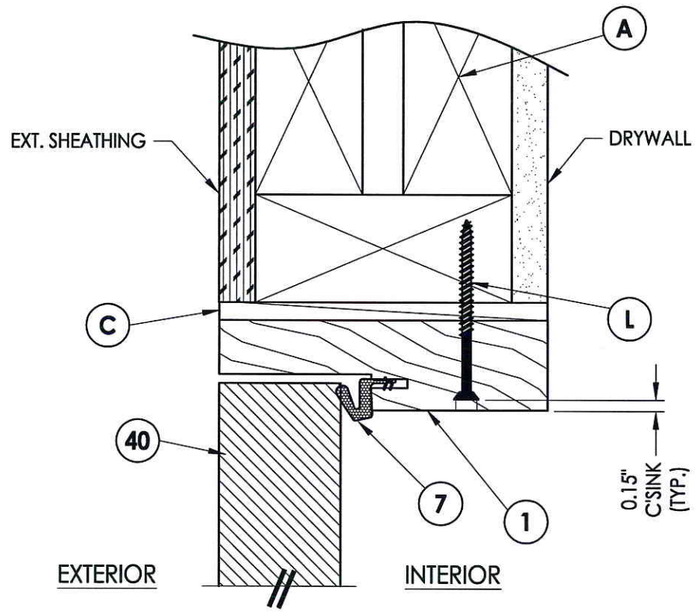
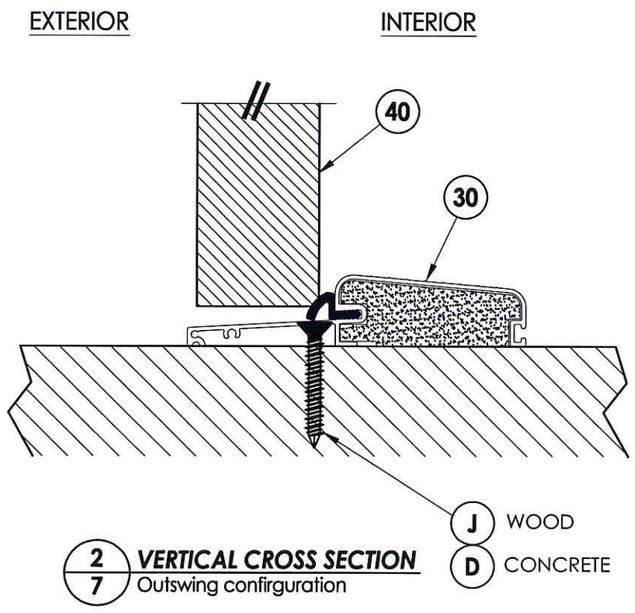
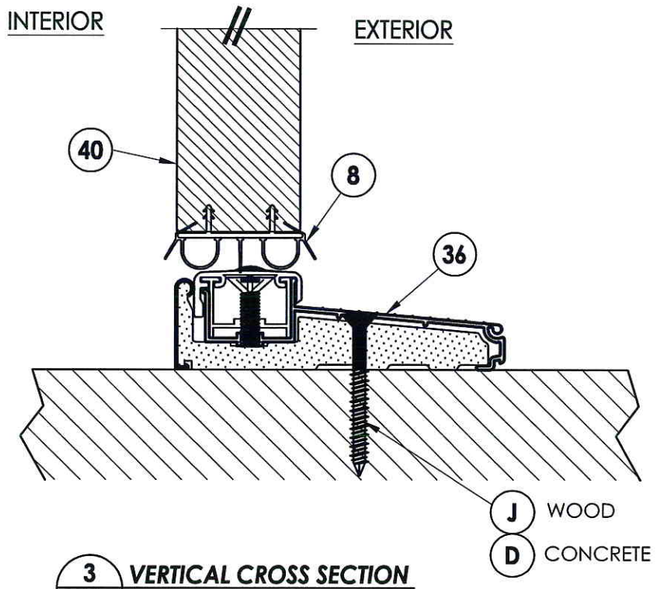


1/7 **VERTICAL CROSS SECTION**
Outswing shown - inswing also approved



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



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

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Phone No.: 813.859.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

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

12-3-12

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-4281
SHEET 7 OF 10

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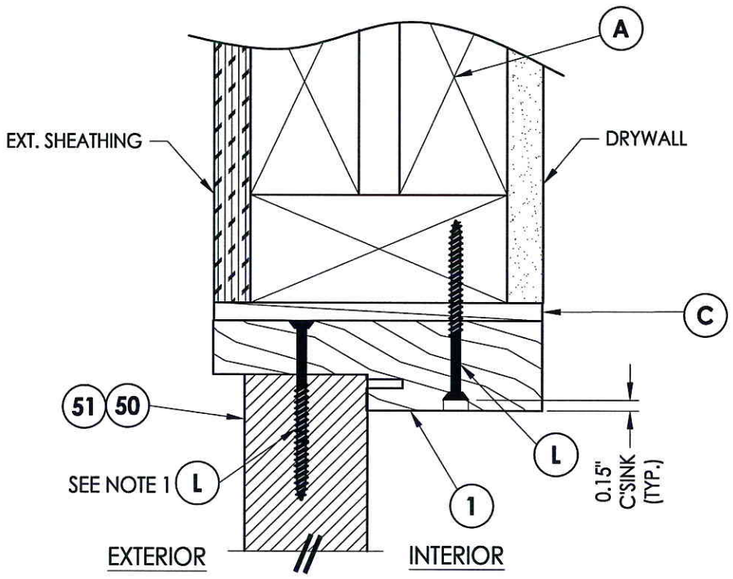
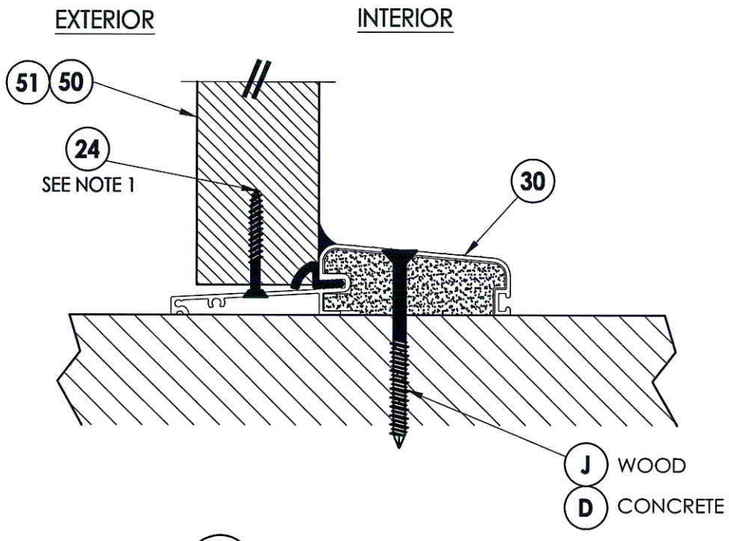
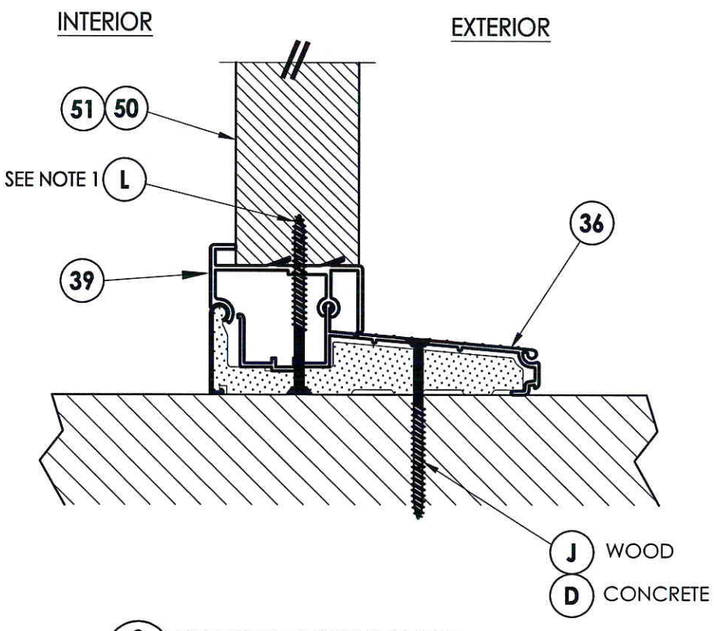


1/8 **VERTICAL CROSS SECTION**
Outswing shown - Inswing also approved



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.

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: *VERTICAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4281
SHEET 8 OF 10

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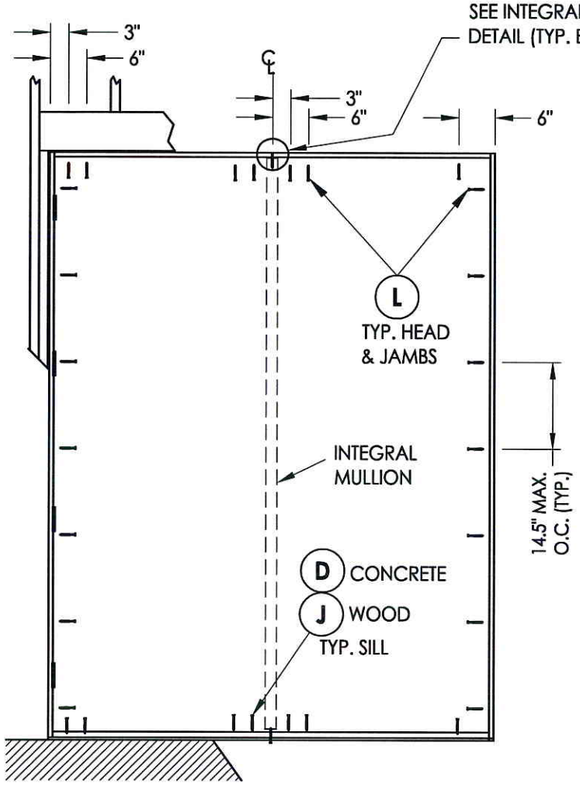
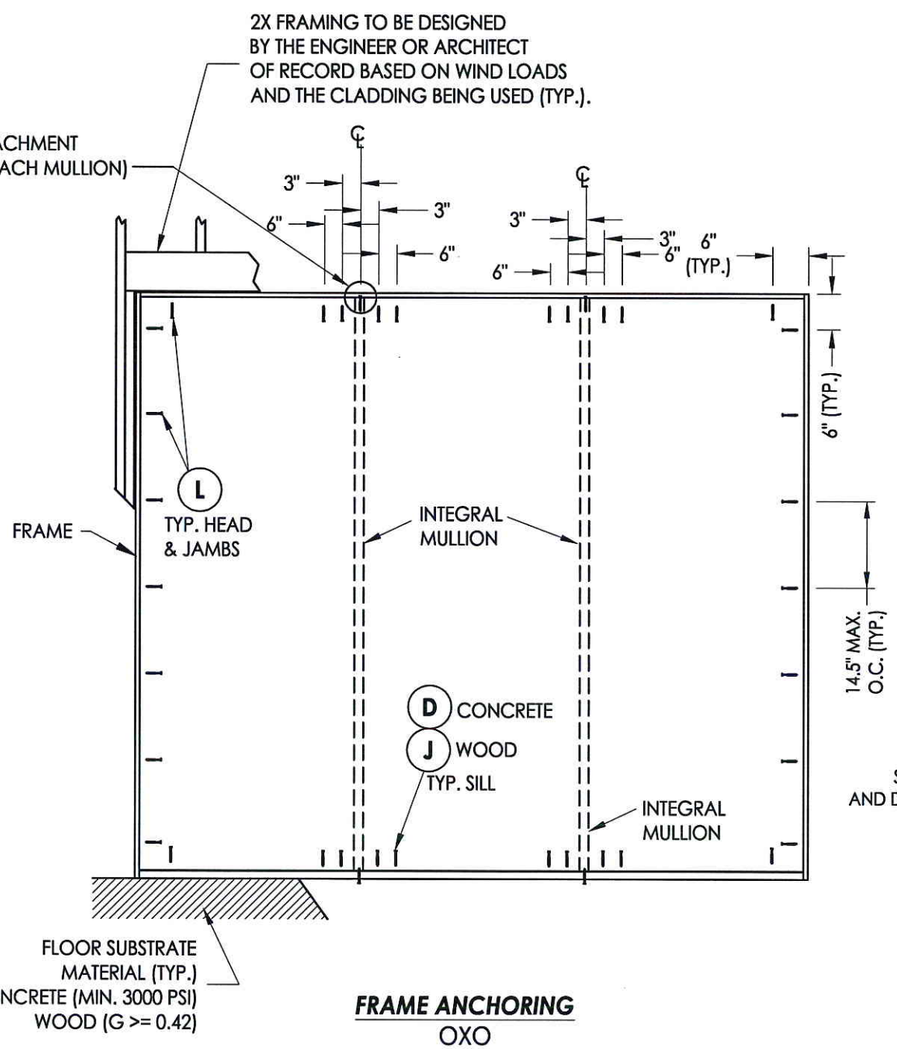
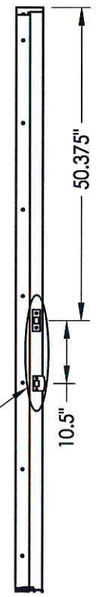


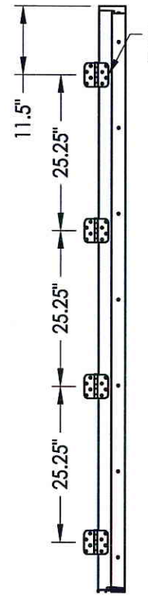
FRAME ANCHORING
XO (Shown)
OX (Similar)



FRAME ANCHORING
OXO



STRIKE LOCATIONS

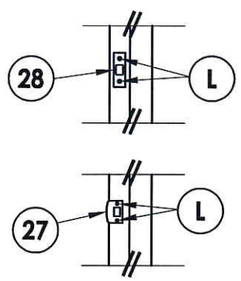


HINGE LOCATIONS

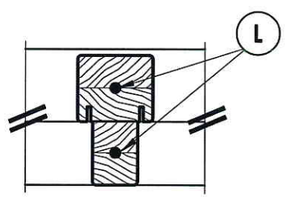
CONCRETE ANCHOR NOTES:

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:*

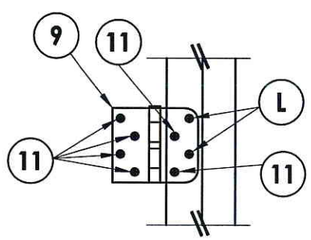
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



LATCH AND DEADBOLT DETAIL



INTEGRAL MULLION ATTACHMENT DETAIL



HINGE DETAIL

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: *FRAME ANCHORING*

NO.	DATE	BY
REVISIONS		

DATE: 11/28/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4281
SHEET 9 OF 10

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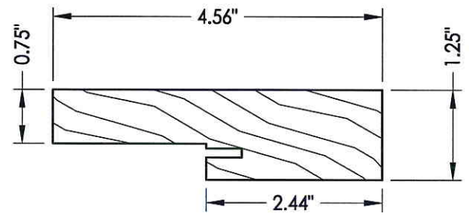
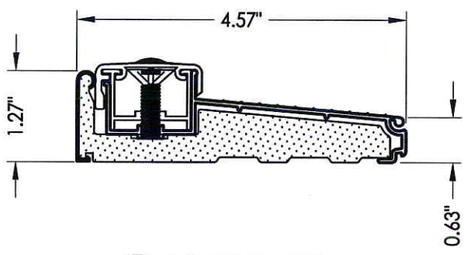
BILL OF MATERIALS

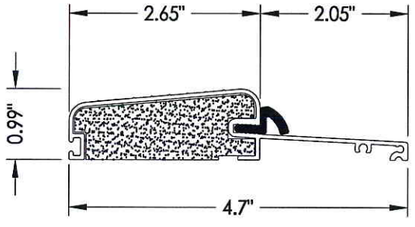
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
J	#10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMB.)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
1	HEAD & JAMB - FINGER-JOINT PINE	WOOD
2	INTEGRAL 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
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
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



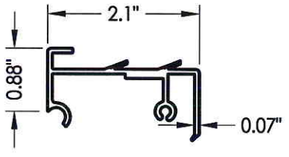
1 HEAD & JAMB
Wood



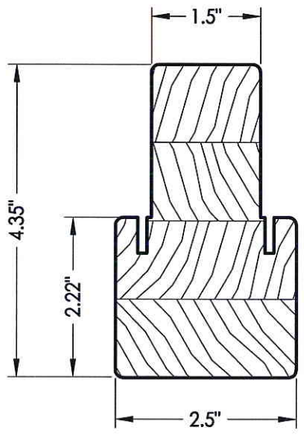
36 INSWING THRESHOLD
Columbia 900 Series



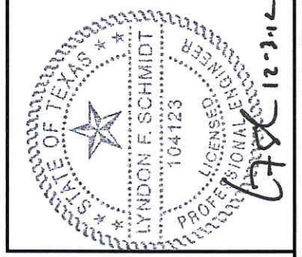
30 OUTSWING THRESHOLD
Columbia 775 Series
w/ Composite Substrate



39 SIDELITE SPACER
Inswing



2 INTEGRAL MULLION



12-3-12

Documents Prepared By: Lyndon F. Schmidt, P.E.
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SHEET 10 OF 10

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