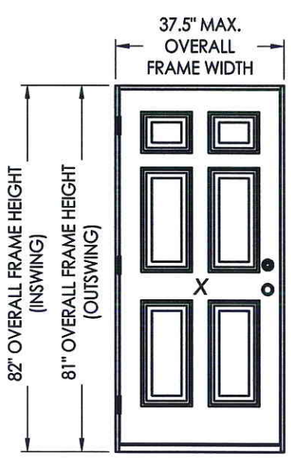
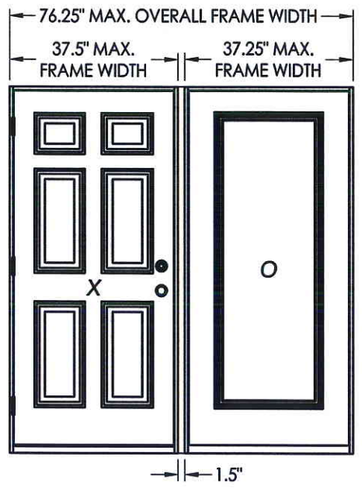
plastpro

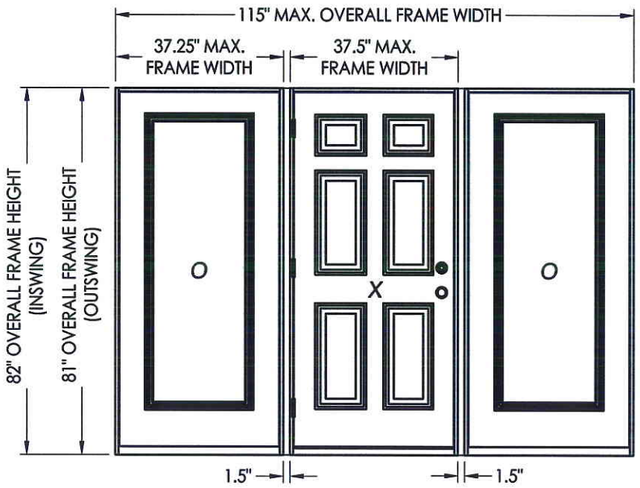
5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

OPAQUE FIBERGLASS DOORS
SINGLES
w/ or w/out SIDELITES

INSWING / OUTSWING
"IMPACT"







EVALUATED FOR USE IN THE STATE OF TEXAS

The 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. 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	Elevations
5	Vertical cross sections
6	Horizontal cross sections
7	Frame anchoring & hardware details
8	Bill of materials and components

CONFIG.	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POS.	NEG.	POS.	NEG.
X	37.5" x 82.0"	+50.0	-50.0	+50.0	-50.0
OX / XO	76.5" x 82.0"				
OXO	115.5" x 82.0"				

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL
ENGINEER

11-13-14

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: PLASTPRO FIBERGLASS DOOR

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

NO.	DATE	REVISIONS	BY

DATE: 11/11/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4479
SHEET 1 OF 8

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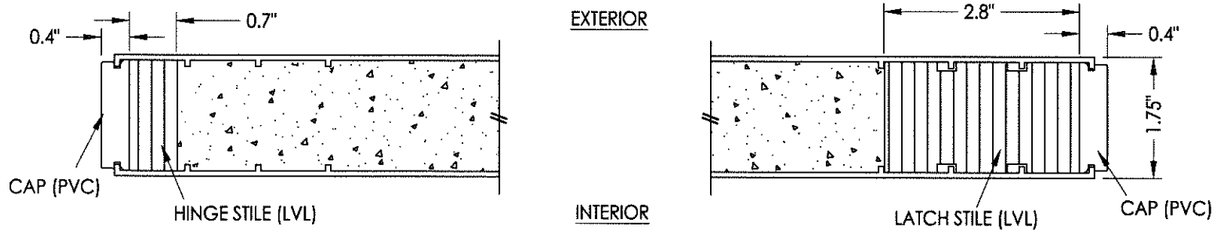
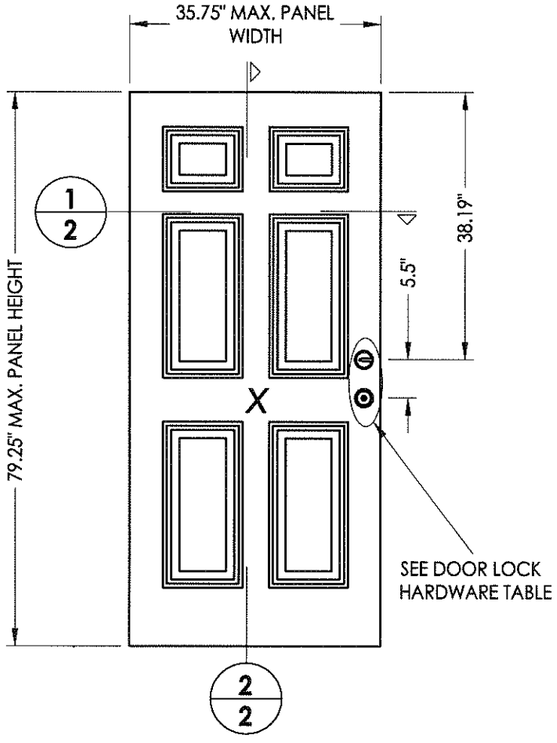
R:\Clients\Plastpro, Inc PERMANENT\TDI\TDI - DR 461 68 Opaque Impact Sgl Dbl w-wo Sidelites\Drawings\Current\TX-4479-80.dwg, TX-4479

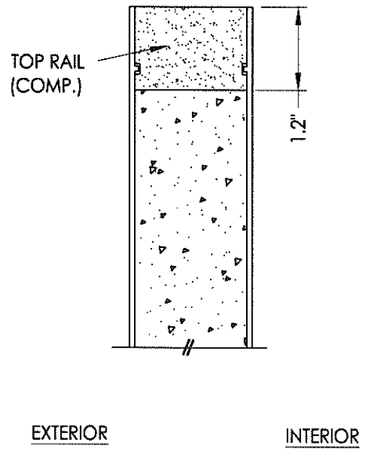


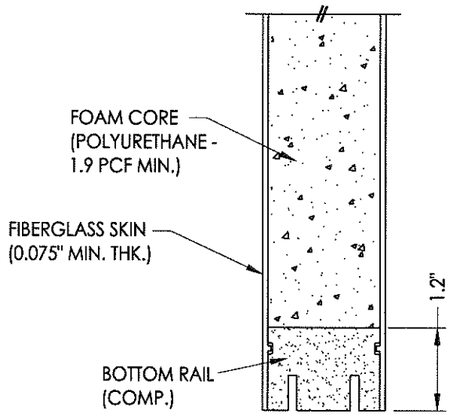
1/2 **HORIZONTAL CROSS SECTION**



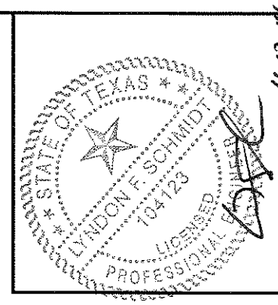
40 **PLASTPRO DOOR PANEL**

DOOR LOCK HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: KWIKSET SERIES (400) DEADBOLT: KWIKSET SERIES (660)
SCHLAGE	HANDLE SET: "F" SERIES (F10) DEADBOLT: "B" SERIES (B60/62)





2/2 **VERTICAL CROSS SECTION**



11-13-14

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: *PLASTPRO FIBERGLASS DOOR*

PART OR ASSEMBLY: *DOOR & SIDELITE PANEL DETAILS*

NO.	DATE	BY
REVISIONS		

DATE: 11/11/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4479
SHEET 2 OF 8

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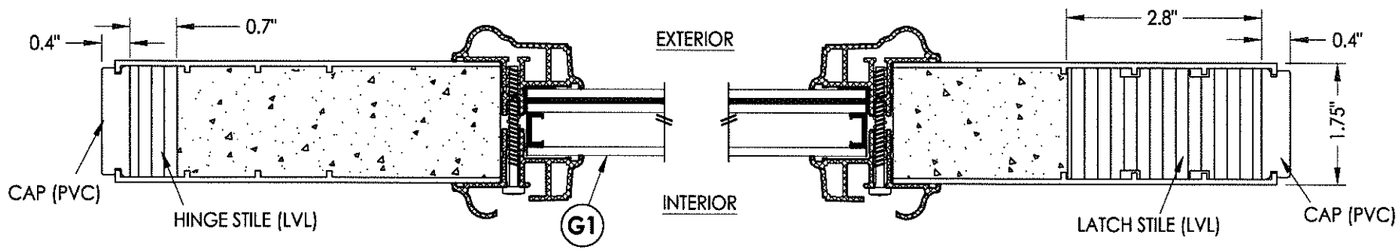
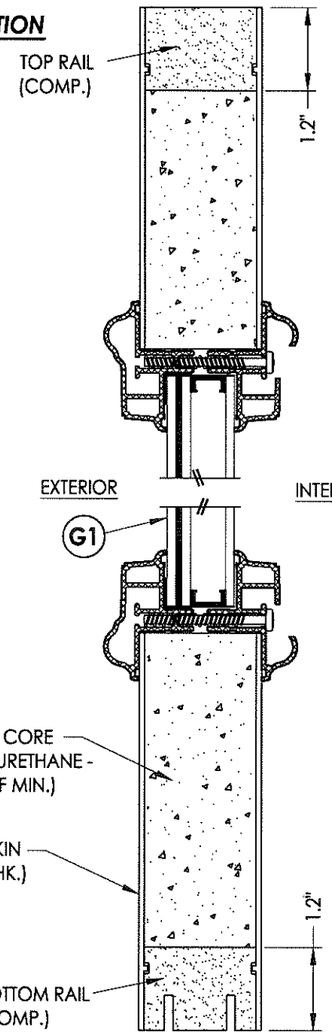
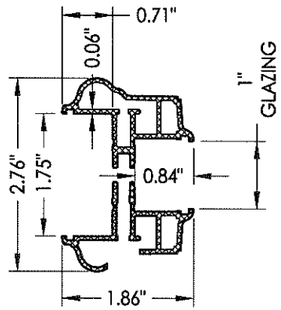


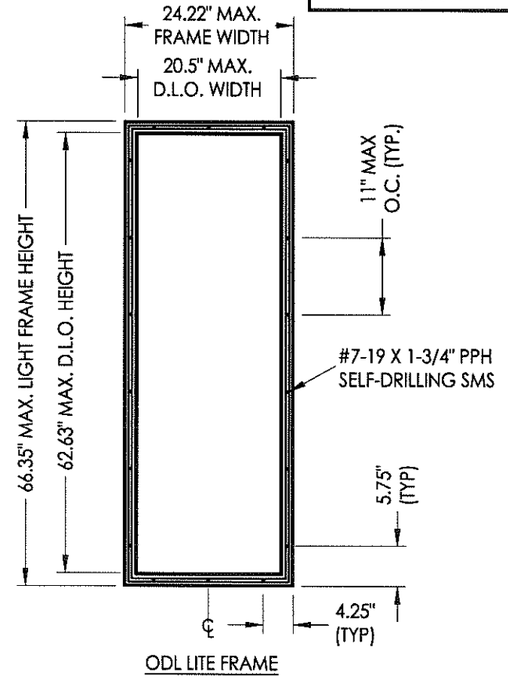
1/3 **HORIZONTAL CROSS SECTION**



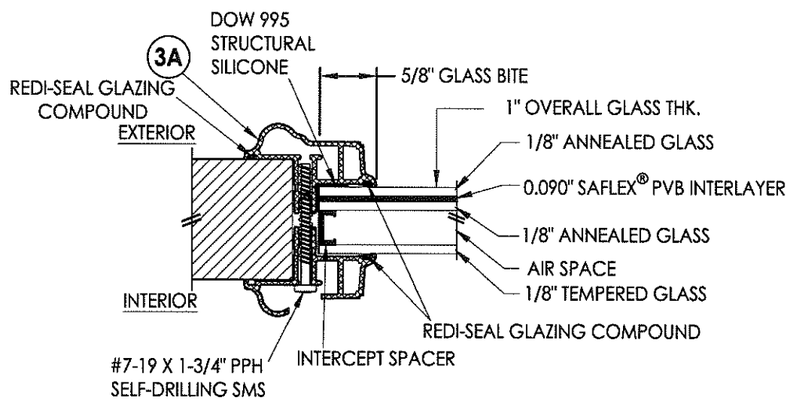
2/3 **VERTICAL CROSS SECTION**



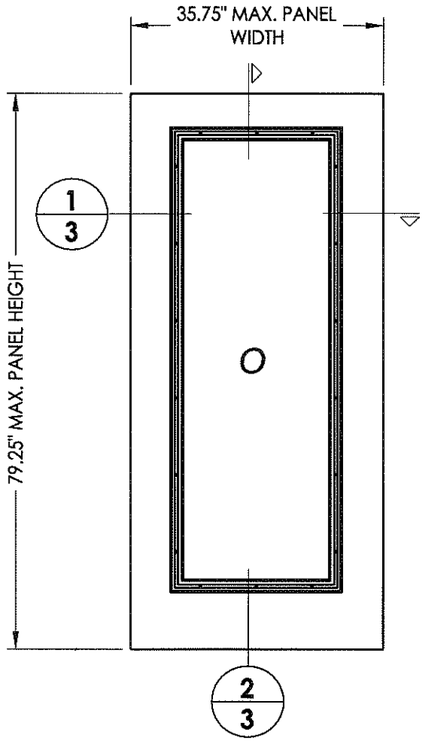
3A **ODL LITE FRAME**
Aluminum



ODL LITE FRAME



G1 **GLAZING DETAIL**
ODL Lite frame



50 **PLASTPRO SIDELITE PANEL**

STATE OF TEXAS
LYNDON F. SCHMIDT
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LICENSED PROFESSIONAL ENGINEER
11.13.14

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

PRODUCT: *PLASTPRO FIBERGLASS DOOR*

PART OR ASSEMBLY: *DOOR & SIDELITE PANEL DETAILS*

NO.	DATE	REVISIONS	BY

DATE: 11/11/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4479
SHEET 3 OF 8

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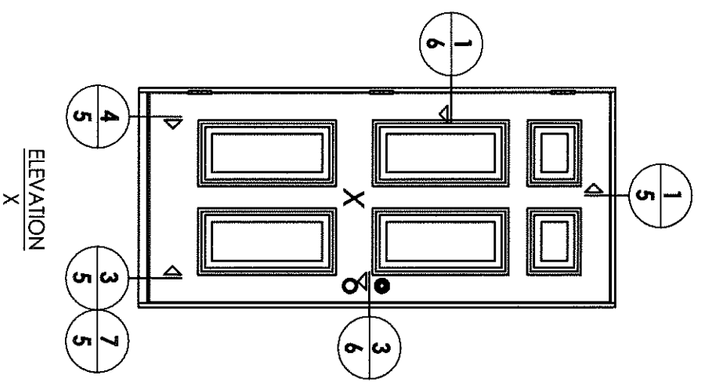

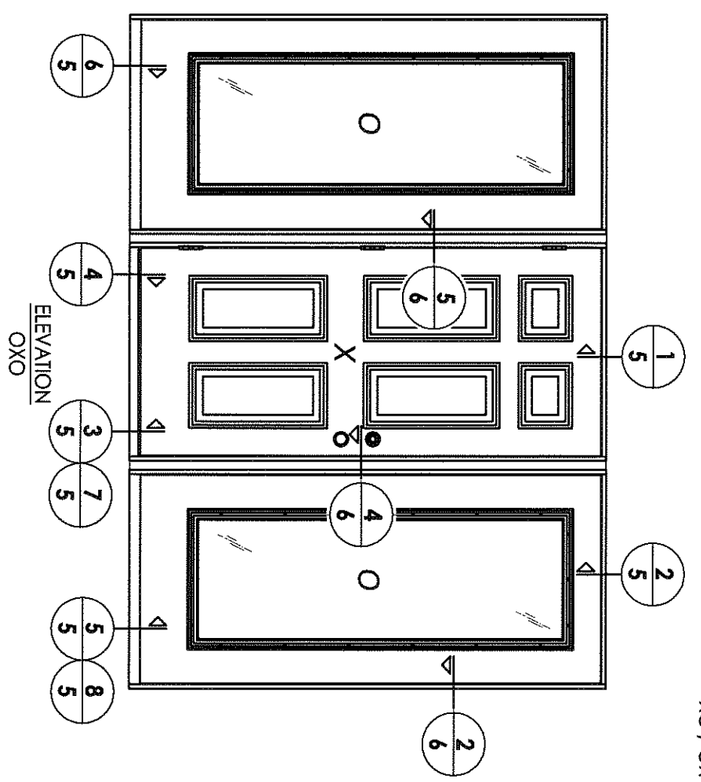

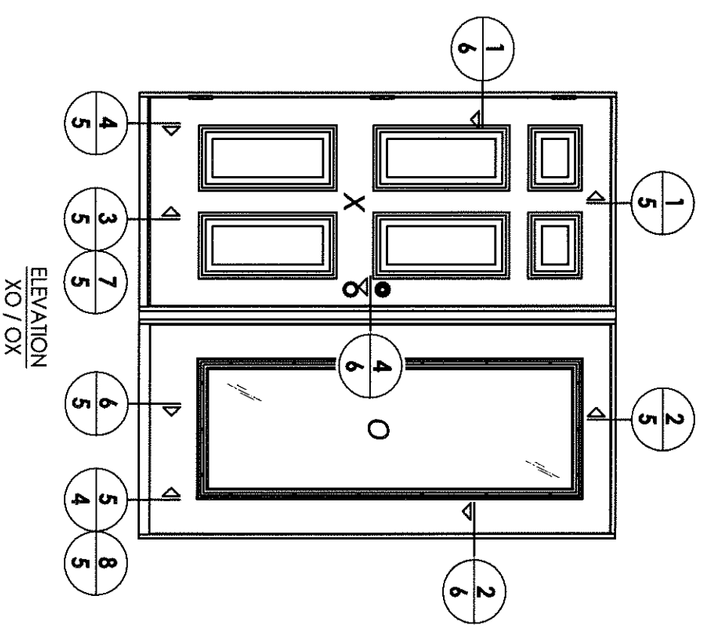

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER

11.13.14

SHEET	4 OF 8
DRAWING NO.:	TX-4479
CHK. BY:	LFS
DWG. BY:	JK
SCALE:	N.T.S.
DATE:	11/11/14

NO.	DATE		BY

REVISIONS

PRODUCT:
PLASTPRO
FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

Documents Prepared By: Lyndon F. Schmidt, P.E.
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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

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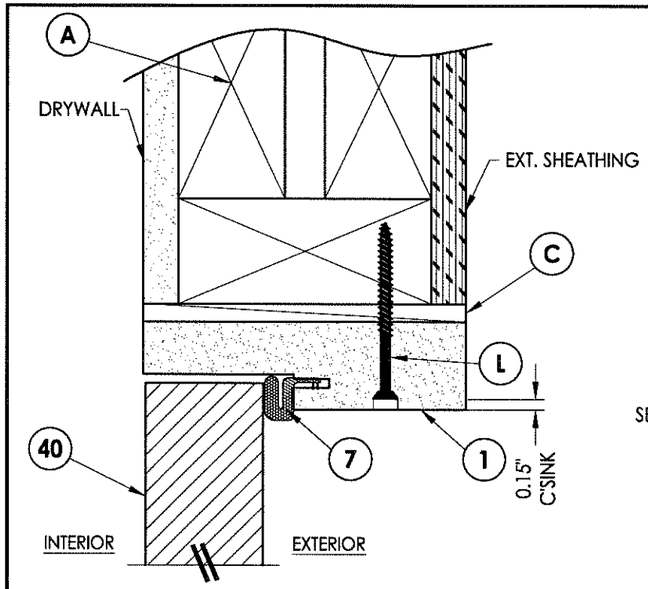
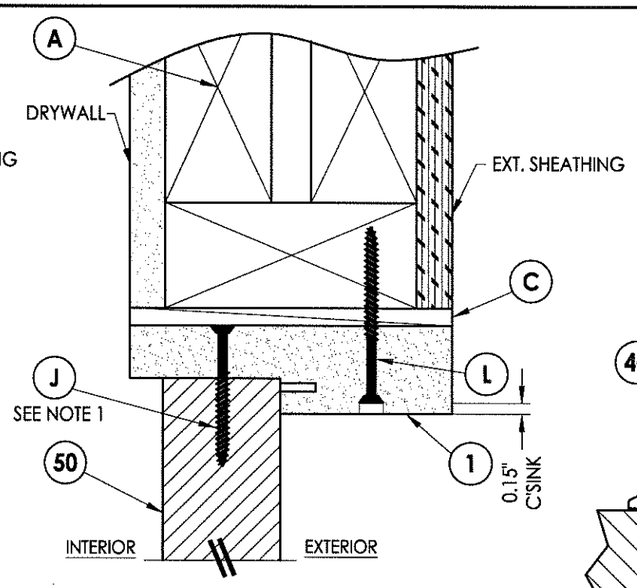
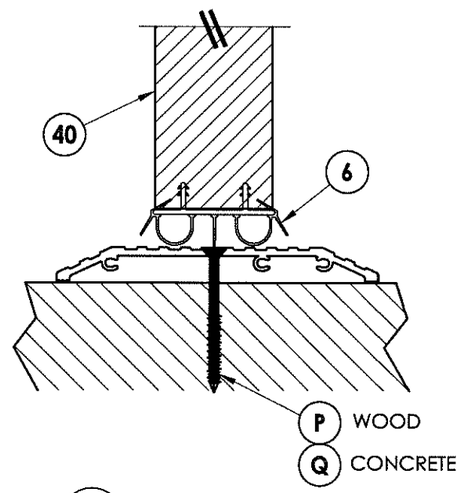


1/5 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)

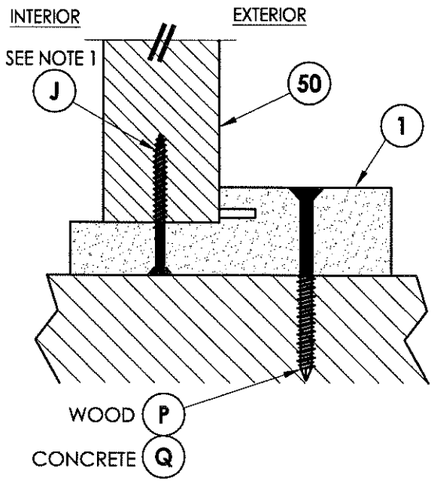


2/5 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)

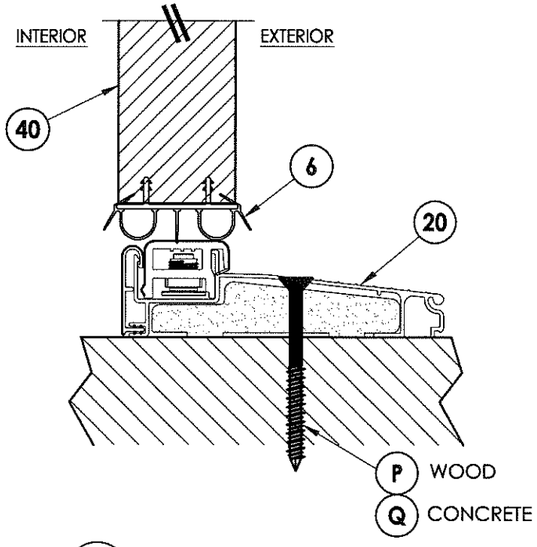
NOTE:
1. Spacing for item J @ head & sill: 6" from each end plus 1 @ centerline (3 total).



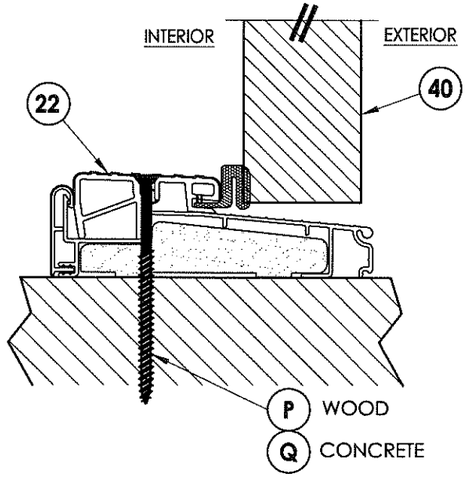
7/5 **VERTICAL CROSS SECTION**
ADA sill



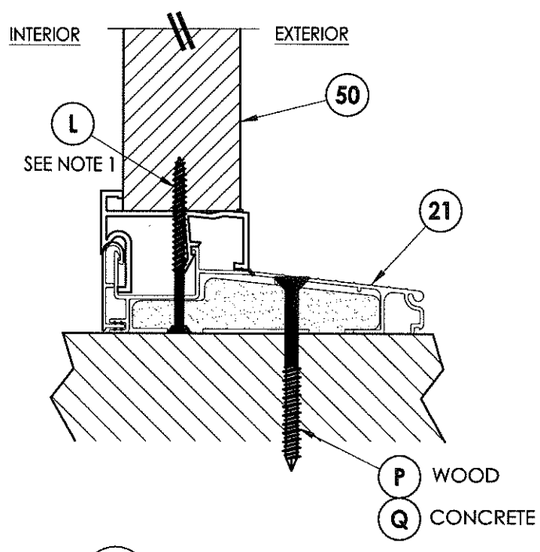
8/5 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)



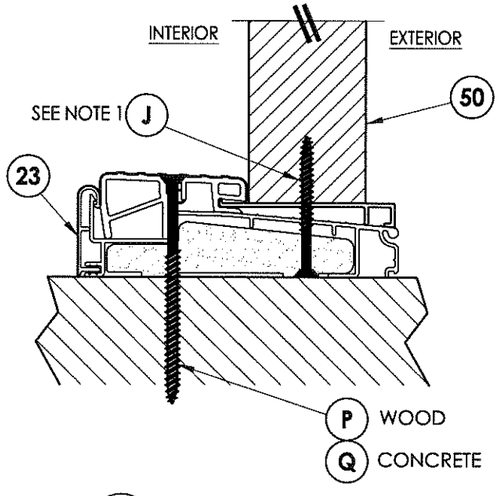
3/5 **VERTICAL CROSS SECTION**
Inswing sill



4/5 **VERTICAL CROSS SECTION**
Outswing sill



5/5 **VERTICAL CROSS SECTION**
Inswing sill



6/5 **VERTICAL CROSS SECTION**
Outswing sill

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
PROFESSIONAL ENGINEER
11.13.14

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: PLASTPRO FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 11/11/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4479
SHEET 5 OF 8

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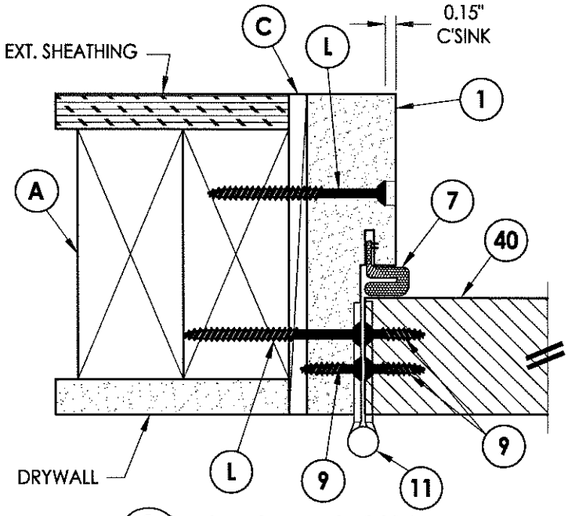
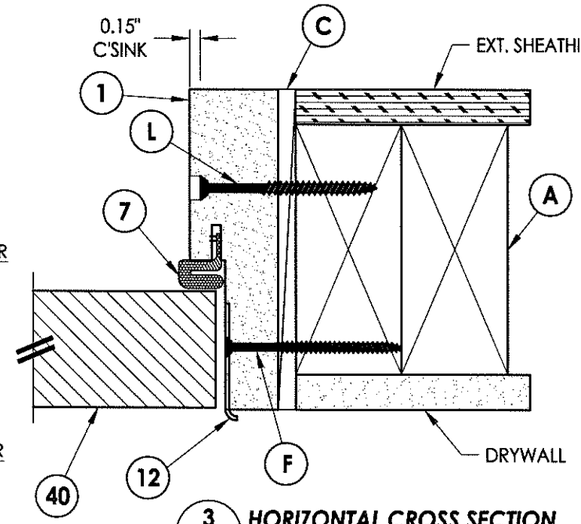
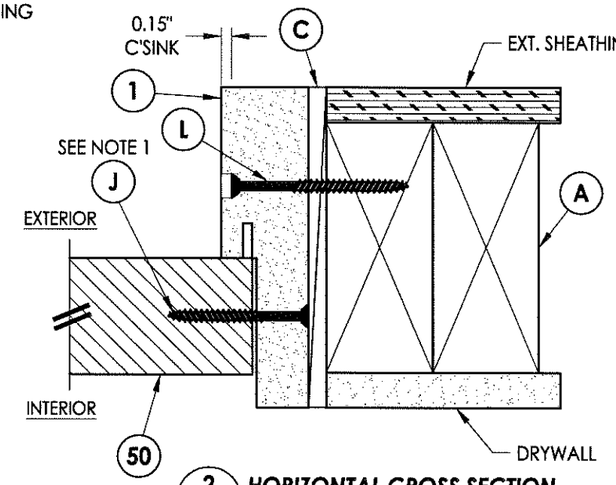


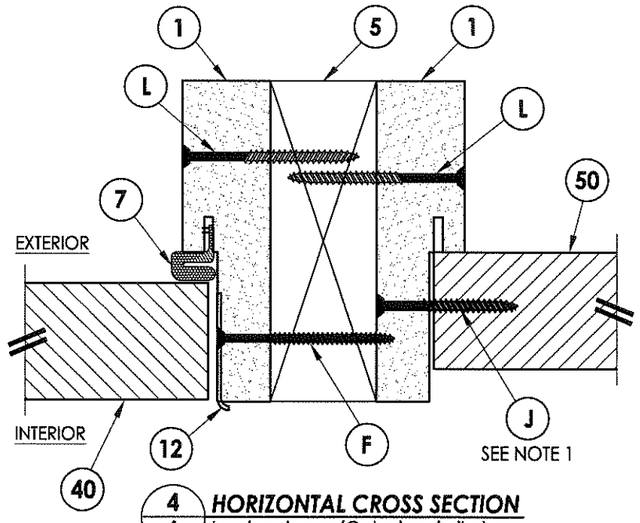
1/6 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



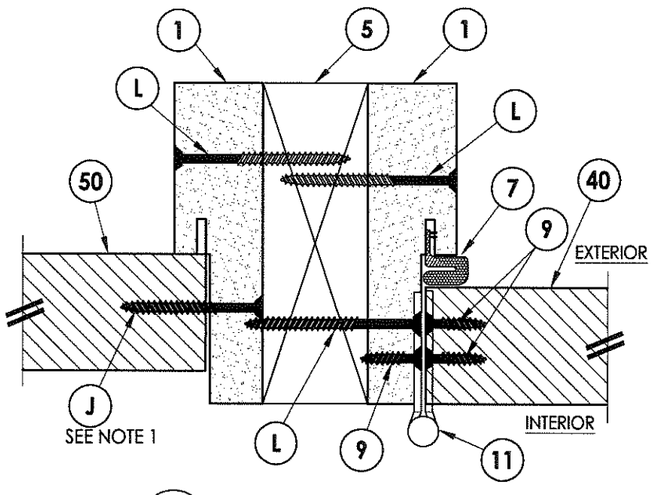
3/6 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



2/6 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



4/6 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



5/6 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

NOTE:
1. Spacing for sidelite to frame screws: 6" from each end and 5 more equally spaced along sidelite jamb (7 total).

STATE OF TEXAS * LYNDON F. SCHMIDT * 104123 * LICENSED PROFESSIONAL ENGINEER
11/13/14

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: *PLASTPRO FIBERGLASS DOOR*

PART OR ASSEMBLY: *HORIZONTAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY

DATE: 11/11/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4479
SHEET 6 OF 8

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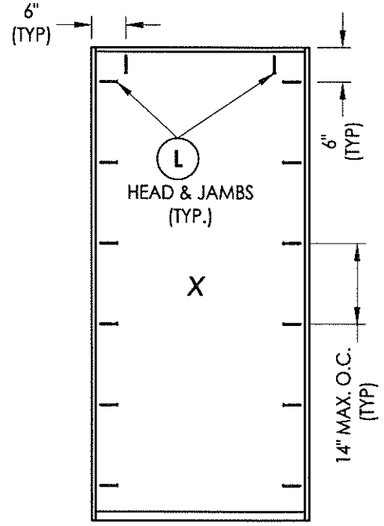
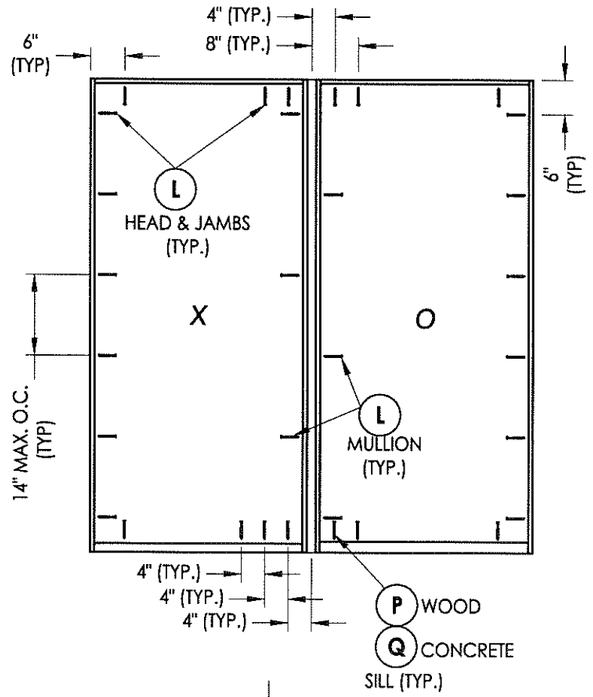
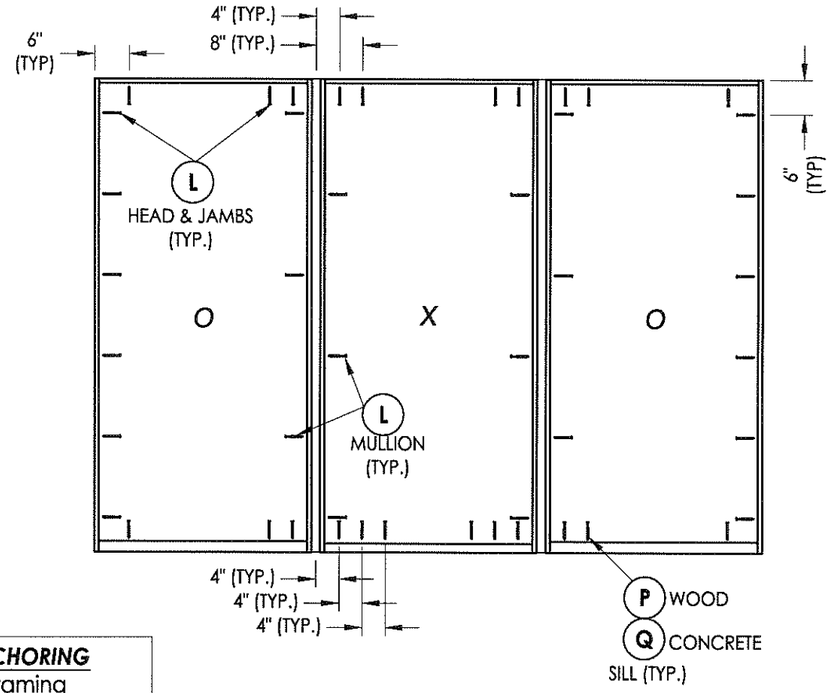
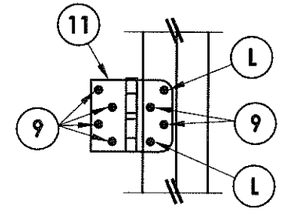


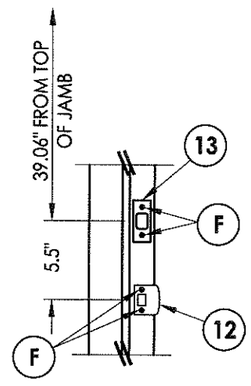




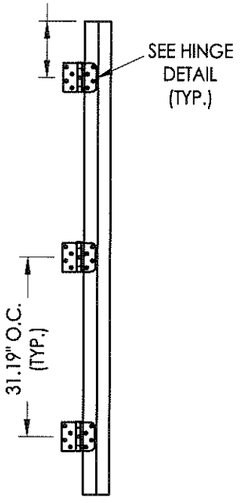
FRAME ANCHORING
2X stud framing
w/ wood/concrete substrate



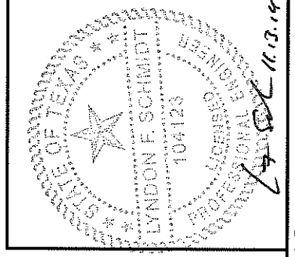
HINGE DETAIL



LATCH AND DEADBOLT DETAILS



HINGE JAMB



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

PRODUCT: *PLASTPRO FIBERGLASS DOOR*

PART OR ASSEMBLY: *FRAME ANCHORING & HARDWARE DETAILS*

NO.	DATE	BY
	REVISIONS	

DATE: 11/11/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4479
SHEET 7 OF 8

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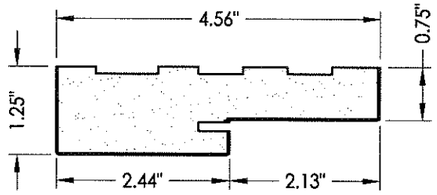
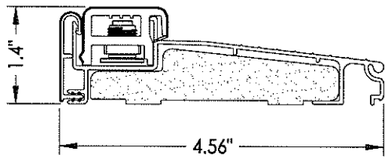
BILL OF MATERIALS

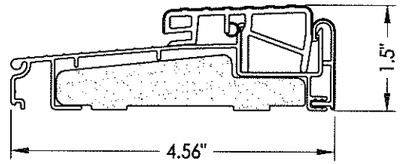
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#10 X 2-1/2" PFH WOOD SCREW	STEEL
J	#10 X 2" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
M	#8 X 2" PH SMS	STEEL
P	#10 PFH WOOD SCREW (1-1/2" MIN. EMB.)	STEEL
Q	1/4" PFH CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
1	POLY FIBER JAMB	COMP.
5	2X REINFORCEMENT (SG >= 0.55)	WOOD
6	SWEEP	PVC
7	WEATHERSTRIP (ENDURA FORCE 5)	FOAM
8	WEATHERSTRIP (Q-LON)	FOAM
9	#10 x 1" PFH WOOD SCREW	STEEL
11	4" X 4" HINGE	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE	STEEL
20	INSWING THRESHOLD	ALUM/COMP
21	INSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
22	OUTSWING THRESHOLD	ALUM/COMP
23	OUTSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
24	ADA THRESHOLD	
40	DOOR PANEL	-
50	SIDELITE PANEL	-



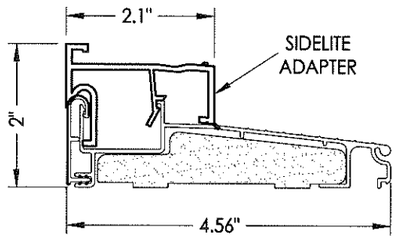
1 **POLY FIBER JAMB**



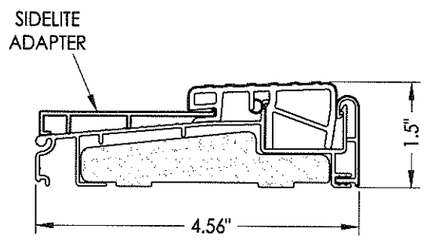
20 **INSWING THRESHOLD**
Endura (Z-Series)



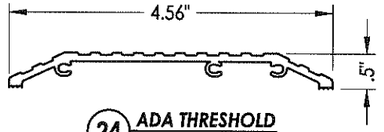
22 **OUTSWING THRESHOLD**
Endura (Z-Series)



21 **INSWING THRESHOLD w/ SIDELITE ADAPTER**
Endura (Z-Series)



23 **OUTSWING THRESHOLD w/ SIDELITE ADAPTER**
Endura (Z-Series)



24 **ADA THRESHOLD**
DLP

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"	1-1/2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	1"	4"

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: PLASTPRO FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS	BY

DATE: 11/11/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4479
SHEET 8 OF 8

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