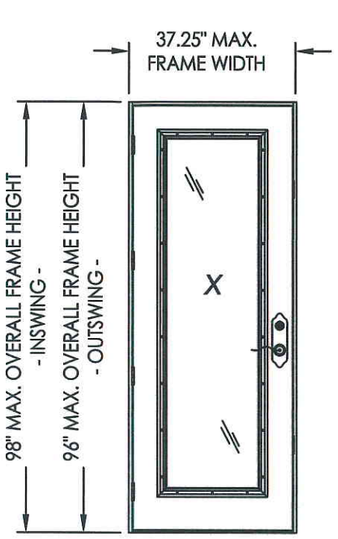
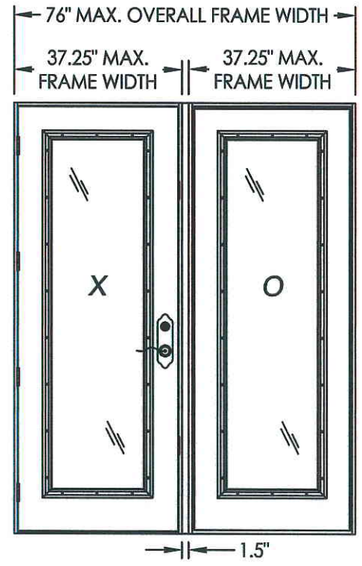
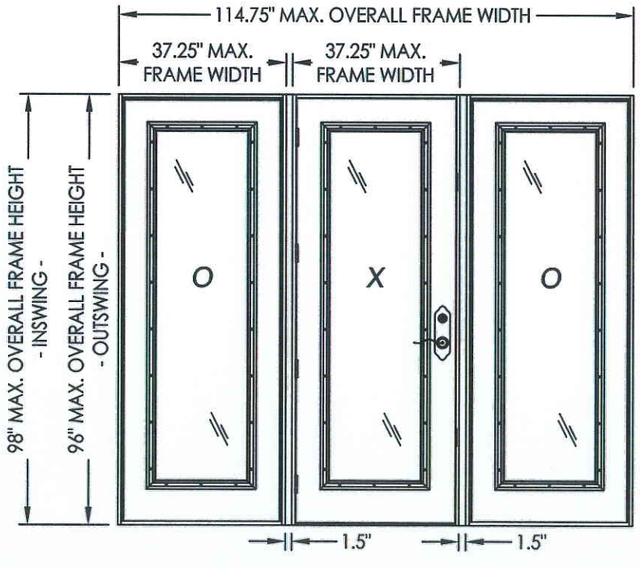
plastpro

5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

GLAZED FIBERGLASS SINGLE DOOR
w/ or w/o SIDELITES
INSWING / OUTSWING
"IMPACT"







EVALUATED FOR USE IN THE STATE OF TEXAS

The Plastpro 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" and includes Wind Zone 4 as defined in ASTM E1996.
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.

SUPPORTING DOCUMENTS & EVIDENCE

1. Testing per AAMA/WDMA/CSA 101/I.S.2/A440-05 & ASTM E 1886/1996-05:
   Testing Evaluation Laboratories, Inc. test report(s) #: TEL 01390242 & TEL 01390242-IC.
2. Calculations (Anchoring and Glass load resistance report ASTM E1300-04) prepared by Lyndon F. Schmidt, P.E.
3. Certificate of Participation issued by the National Accreditation and Management Institute, Inc., certifying that Plastpro is manufacturing products within a Quality Assurance program.

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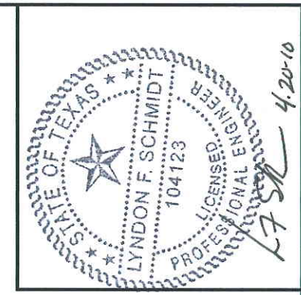
1	Typical elevations, design pressures & general notes
2	Door panel & glazing details
3	Sidelite panel & glazing details
4	Elevations
5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Frame anchoring
9	Frame anchoring
10	Components, multi-lock details & bill of materials

CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
				POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.25" x 98.00"	21.00" x 79.0"	G1	+50.0	-55.0	+50.0	-50.0
OX / XO	76.00" x 98.00"	21.00" x 79.0"		+50.0	-55.0	+50.0	-50.0
OXO	114.75" x 98.00"	21.00" x 79.0"		+50.0	-55.0	+50.0	-50.0



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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY
	REVISIONS	

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 1 OF 10

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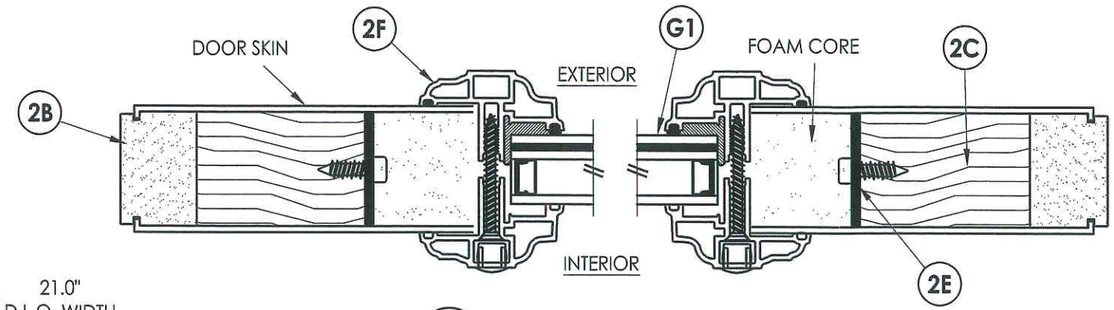
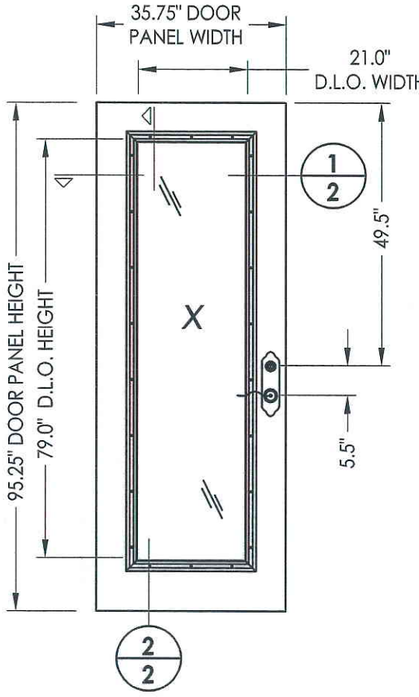
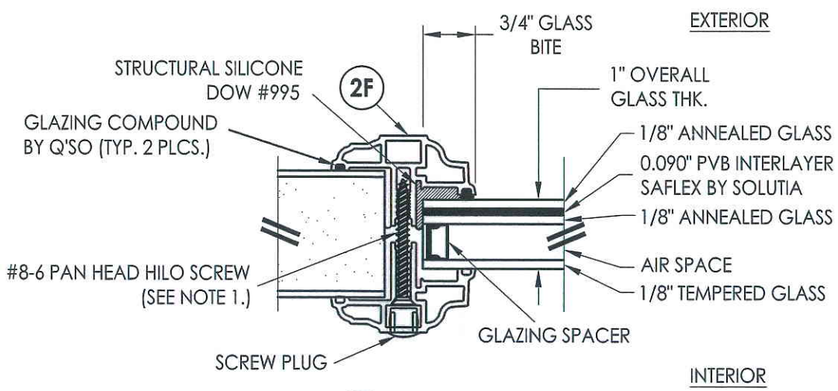


1/2 **HORIZONTAL CROSS SECTION**

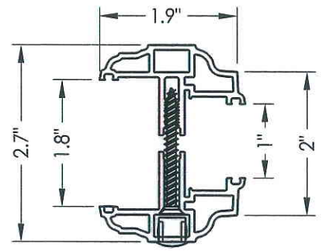


40 **DOOR PANEL**

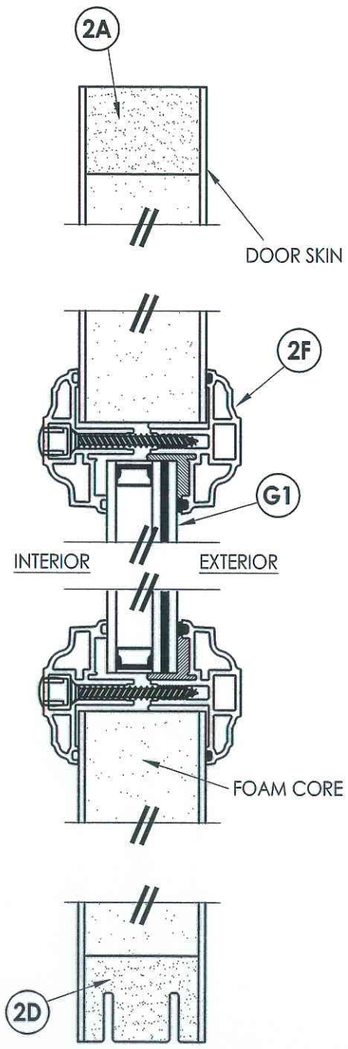
FIBERGLASS DOOR SKIN: MIN. 0.075" THK. (Fy = 11063 PSI MIN.)
CORE MATERIAL: POLYURETHANE FOAM (BASF, MIN. 1.9 PCF DENSITY)



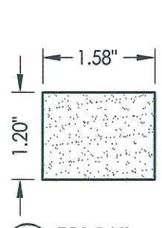
G1 **GLAZING DETAIL**
ODL Lite Frame



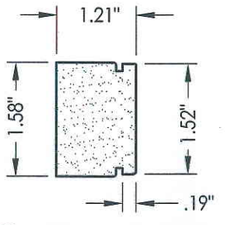
2F **ODL LITE FRAME**
Aluminum



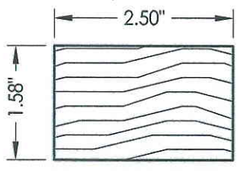
2/2 **VERTICAL CROSS SECTION**



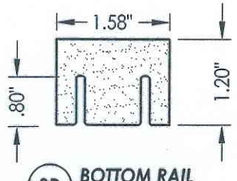
2A **TOP RAIL**
Cellular PVC



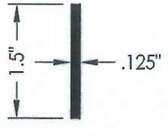
2B **LATCH & HINGE STILE**
Cellular PVC



2C **LATCH & HINGE STILE**
Wood Reinforcement
(S.G. >= 0.42)



2D **BOTTOM RAIL**
Cellular PVC



2E **STEEL REINFORCEMENT BAR**
w/ Nylon Screw

NOTE:
1. Spacing for lite frame screws is as follows:
   Sides: 4.5" from corners and 10.5" o.c. thereafter
   Top & Bottom: 4.5" from corners and @ centerline.

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: PLASTPRO FIBERGLASS DOOR
PART OR ASSEMBLY: DOOR PANEL & GLAZING DETAILS

NO.	DATE	BY	REVISIONS

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 2 OF 10

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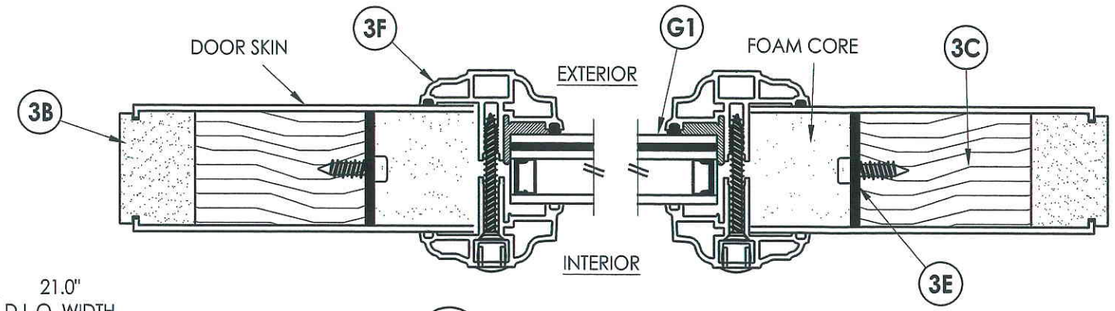
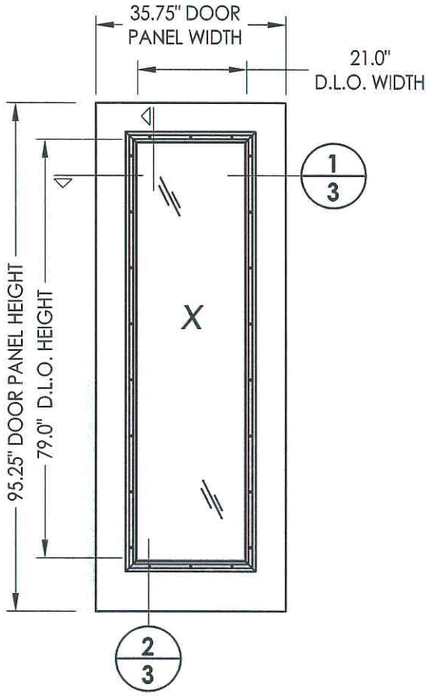
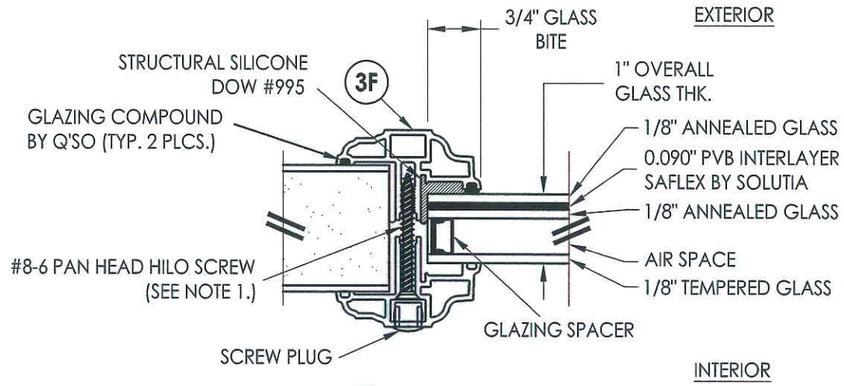


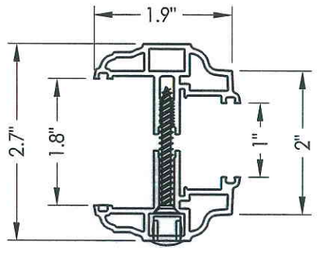
1/3 **HORIZONTAL CROSS SECTION**



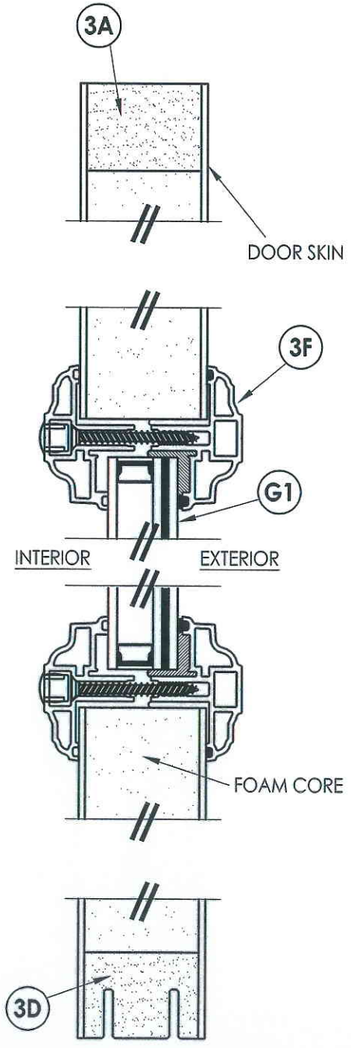
50 **SIDELITE PANEL**



G1 **GLAZING DETAIL**
ODL Lite Frame

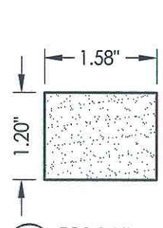


3F **ODL LITE FRAME**
Aluminum

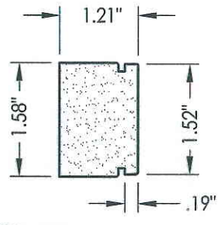


2/3 **VERTICAL CROSS SECTION**

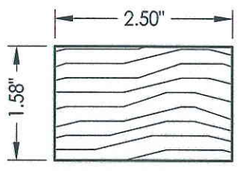
FIBERGLASS DOOR SKIN: MIN. 0.075" THK. (Fy = 11063 PSI MIN.)
CORE MATERIAL: POLYURETHANE FOAM (BASF, MIN. 1.9 PCF DENSITY)



3A **TOP RAIL**
Cellular PVC

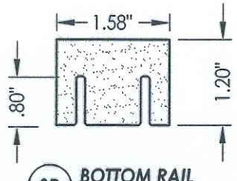


3B **STILE**
Cellular PVC

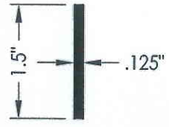


3C **STILE**
Wood Reinforcement
(S.G. >= 0.42)

NOTE:
1. Spacing for lite frame screws is as follows:
Sides: 4.5" from corners and 10.5" o.c. thereafter
Top & Bottom: 4.5" from corners and @ centerline.



3D **BOTTOM RAIL**
Cellular PVC



3E **STEEL REINFORCEMENT BAR**
w/ Nylon Screw

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
4.20.10

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: SIDELITE PANEL & GLAZING DETAILS

NO.	DATE	BY
REVISIONS		

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 3 OF 10

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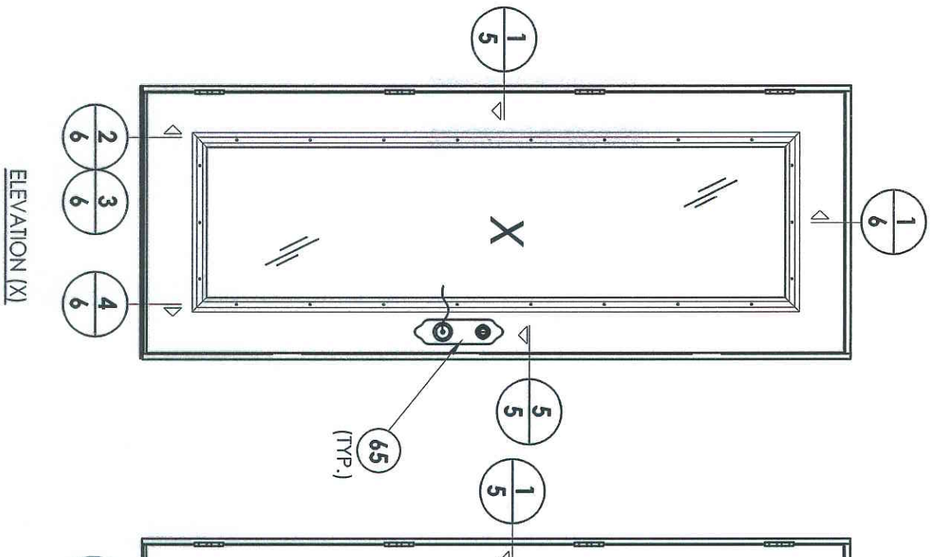

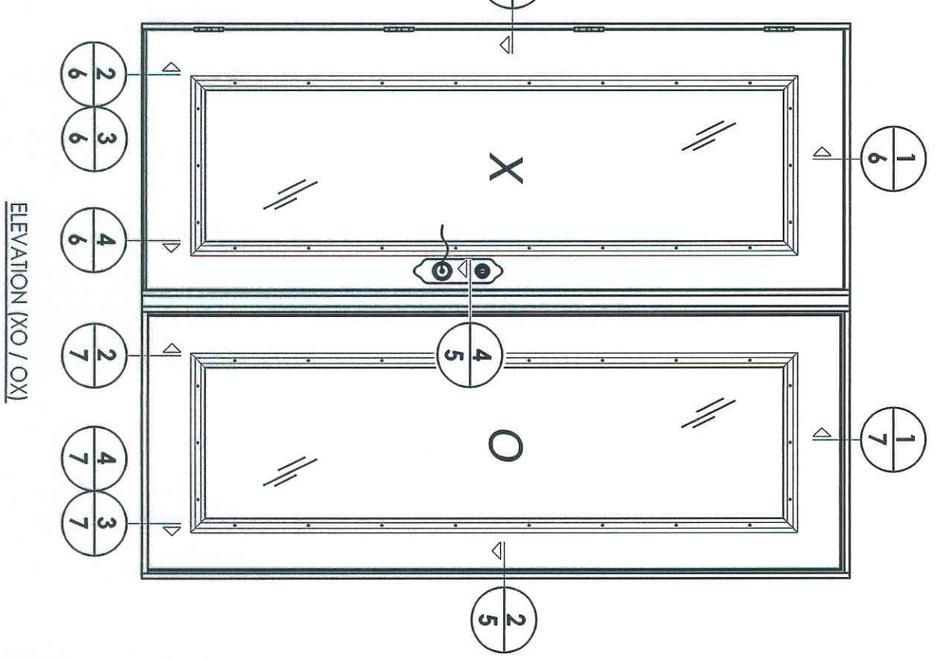

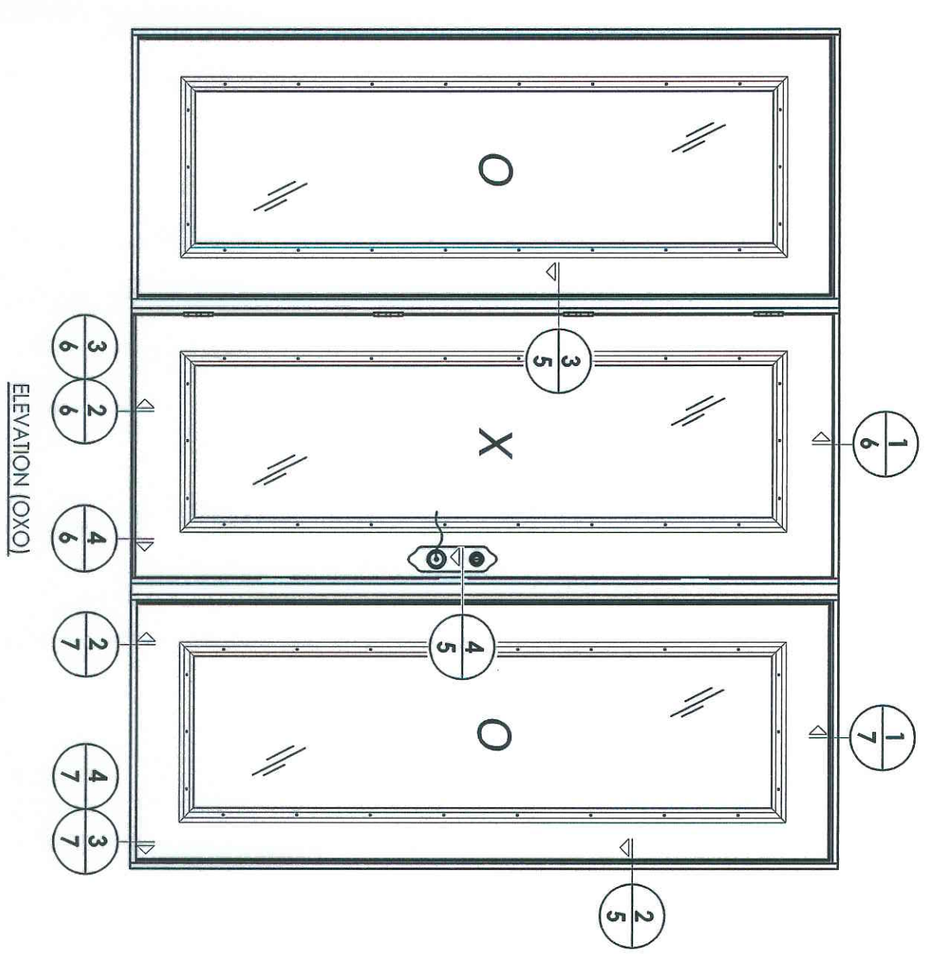

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
4-20-10

SHEET	4 OF 10
DRAWING NO.:	TX-4072
CHK. BY:	LFS
DWG. BY:	JK
SCALE:	N.T.S.
DATE:	04/13/10

NO.	DATE	BY
REVISIONS		

PRODUCT:
PLASTPRO FIBERGLASS DOOR

PART OR ASSEMBLY:
ELEVATIONS

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

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197

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

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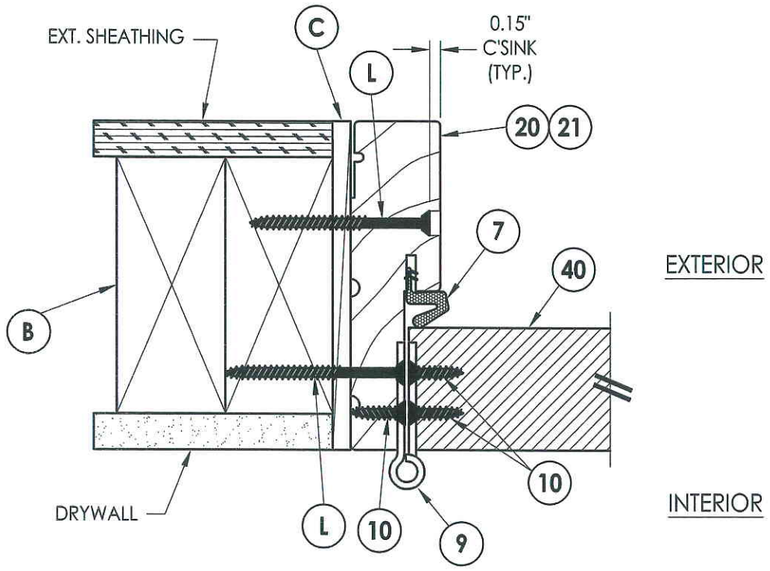
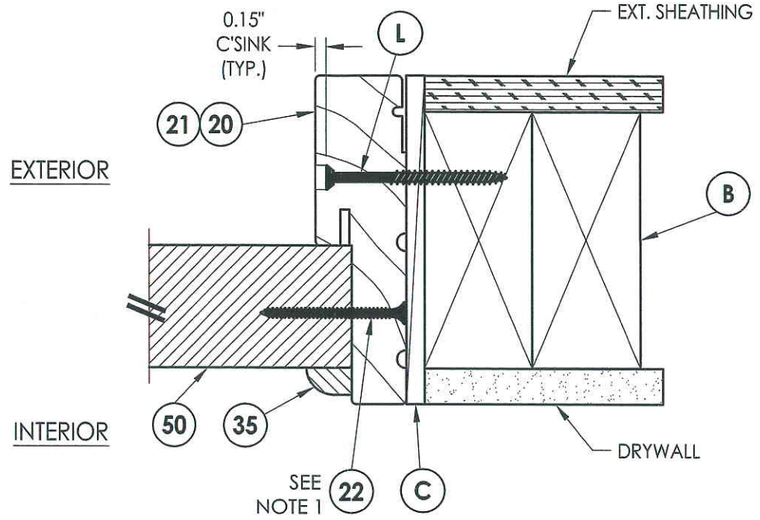


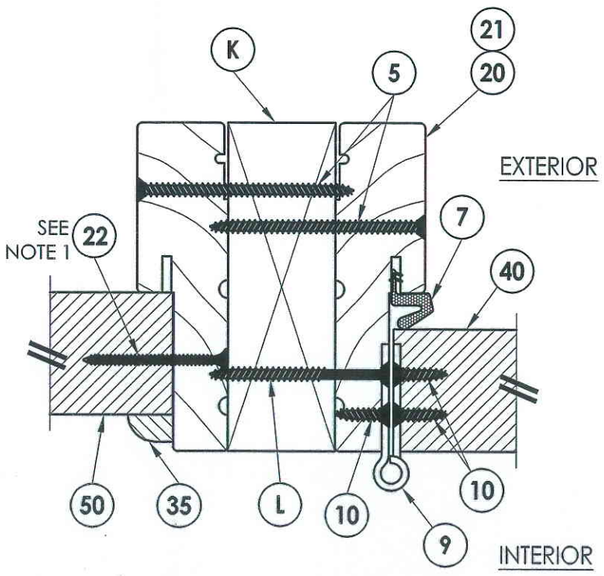
1/5 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved



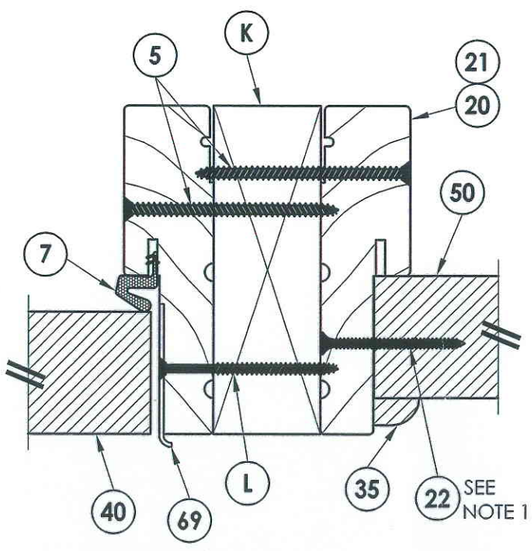
2/5 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved

NOTE:

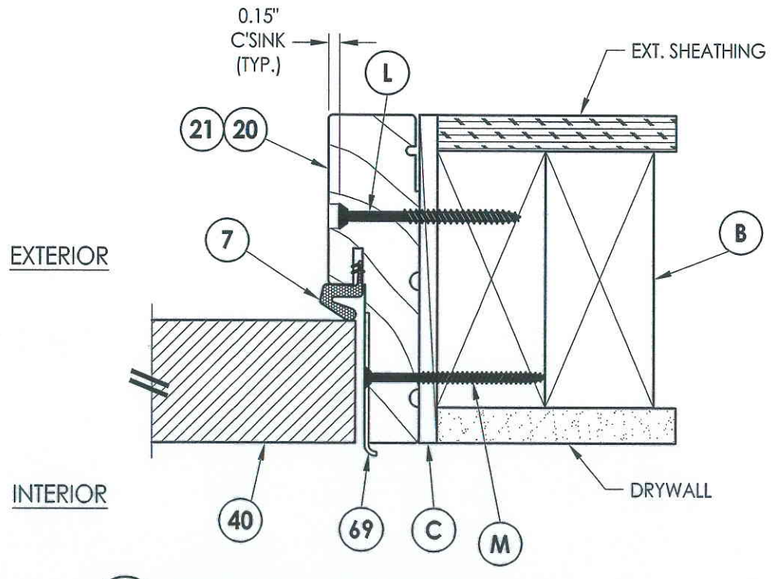
1. Sidelite screws (item #22) located at 3", 5.5", 8", 18", 28", 39", 50", 61", 72", 82" and 92" from bottom of panel.



3/5 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved



4/5 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved



5/5 **HORIZONTAL CROSS SECTION**
Inswing shown - outswing also approved

Documents Prepared By: Lyndon F. Schmidt, P.E.
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RW BUILDING CONSULTANTS, INC.
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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: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 5 OF 10

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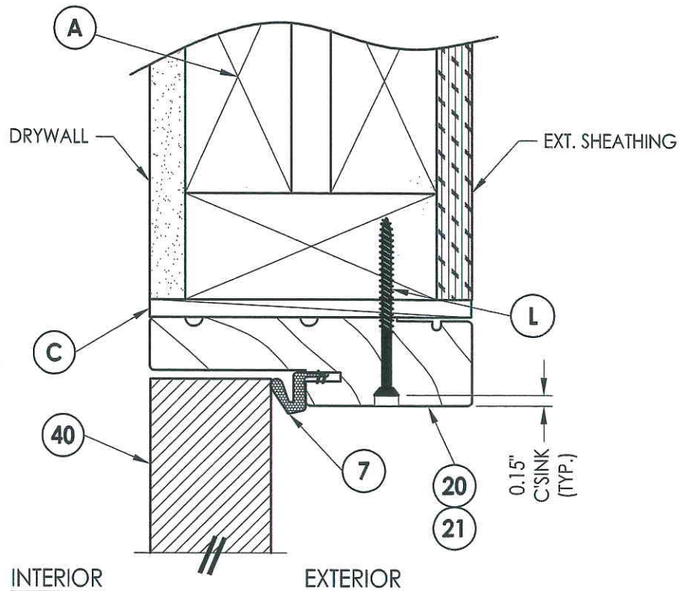
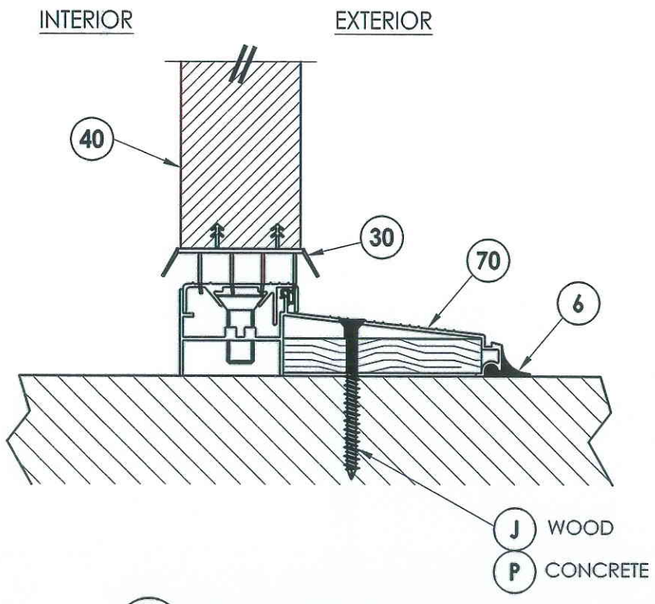
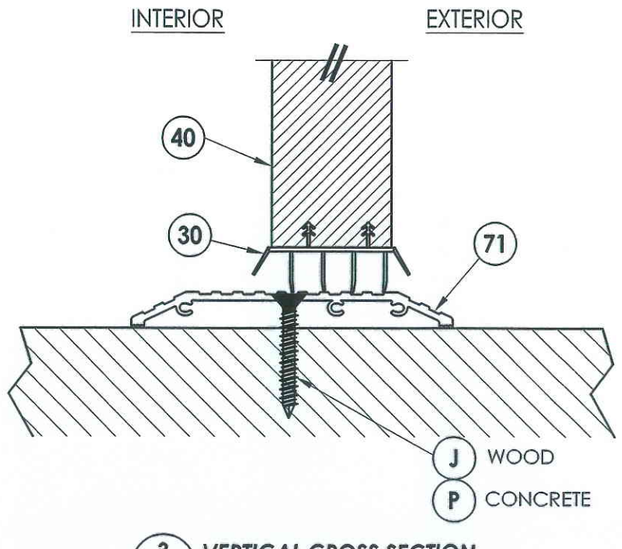


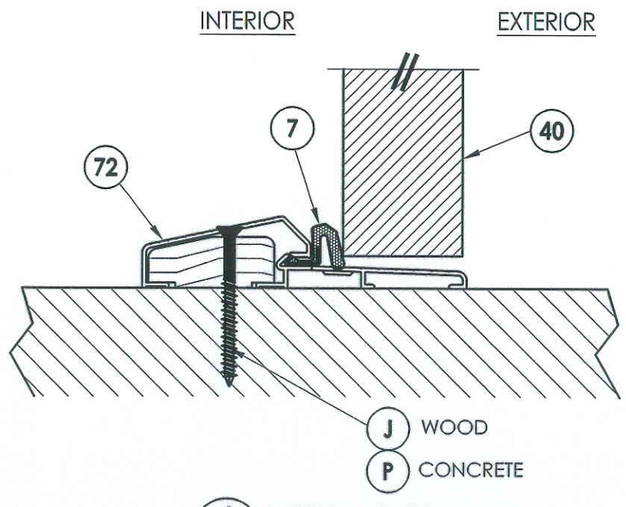
1/6 **VERTICAL CROSS SECTION**
Inswing shown - outswing also approved



2/6 **VERTICAL CROSS SECTION**
Inswing configuration



3/6 **VERTICAL CROSS SECTION**
Shown w/ ADA threshold



4/6 **VERTICAL CROSS SECTION**
Outswing configuration

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

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
4.20.10

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

NO.	DATE	REVISIONS	BY

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 6 OF 10

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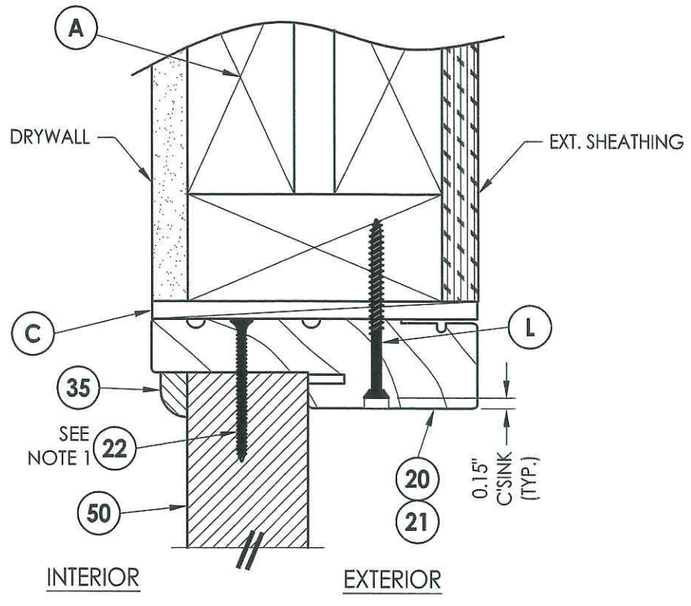
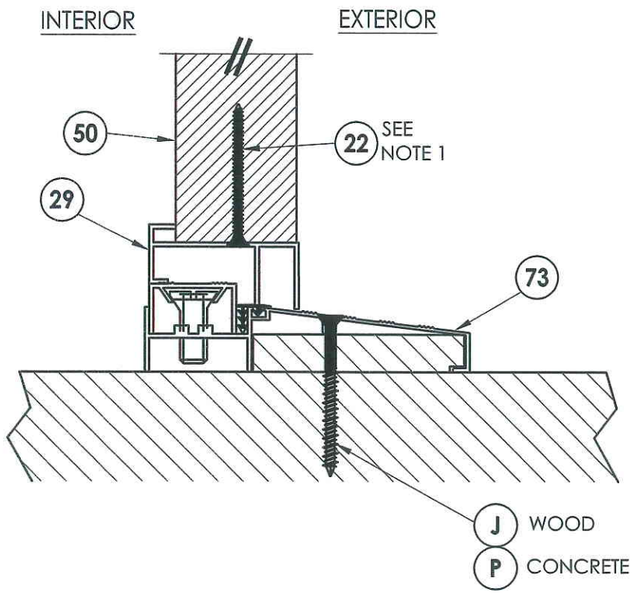
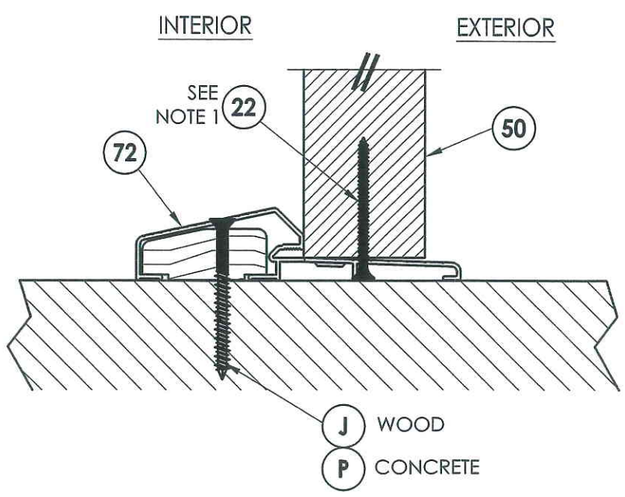


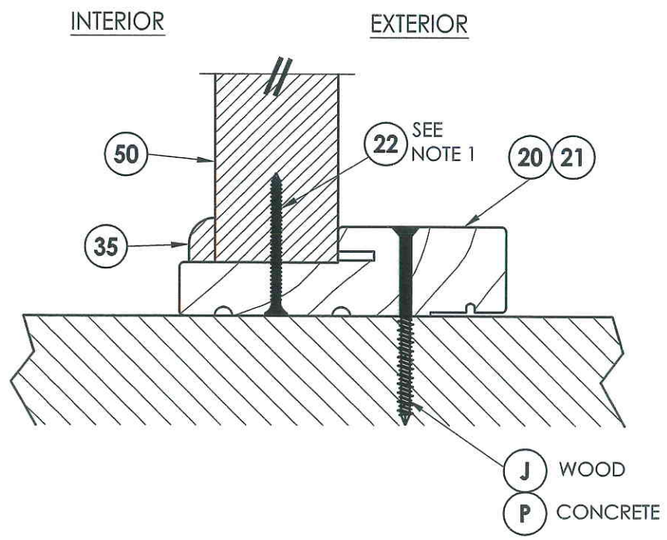
1/7 VERTICAL CROSS SECTION
Inswing shown - outswing also approved



2/7 VERTICAL CROSS SECTION
Inswing configuration



3/7 VERTICAL CROSS SECTION
Outswing configuration



4/7 VERTICAL CROSS SECTION
Outswing configuration

NOTE:

1. Screws thru head and sill jamb located 3" from each end and on center line.

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

4-20-10

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: *VERTICAL CROSS SECTIONS*

NO.	DATE	BY
	REVISIONS	

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 7 OF 10

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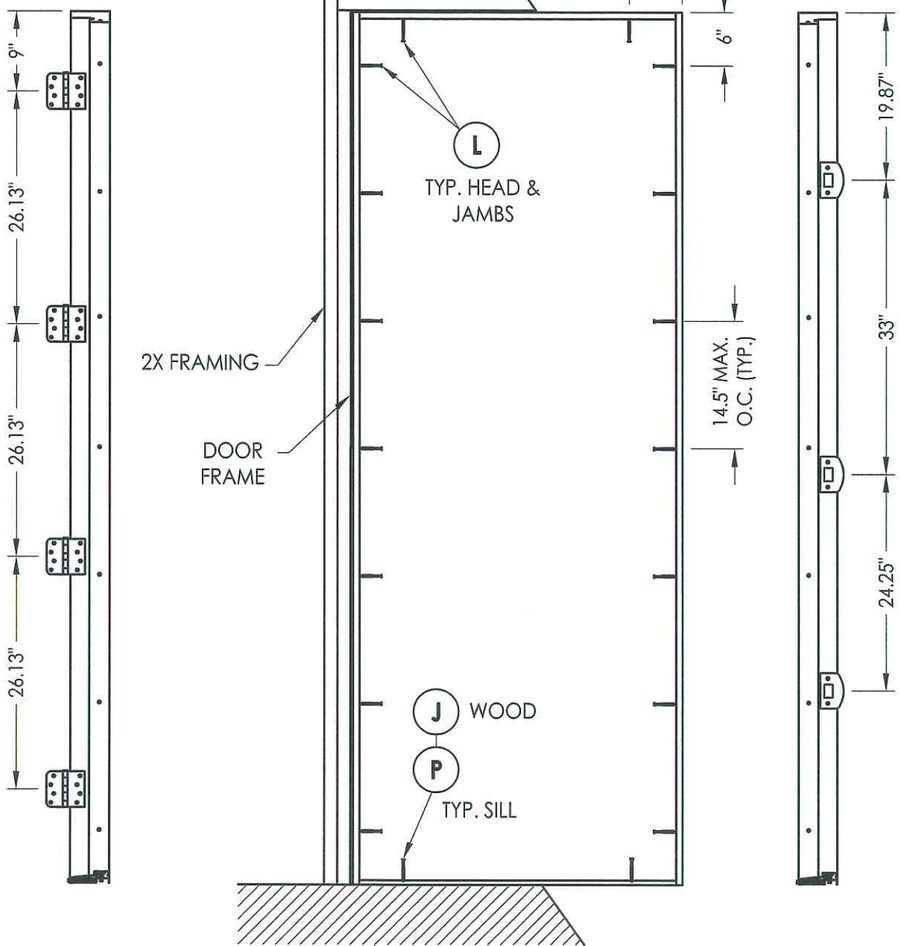
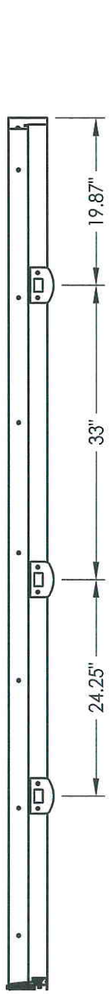


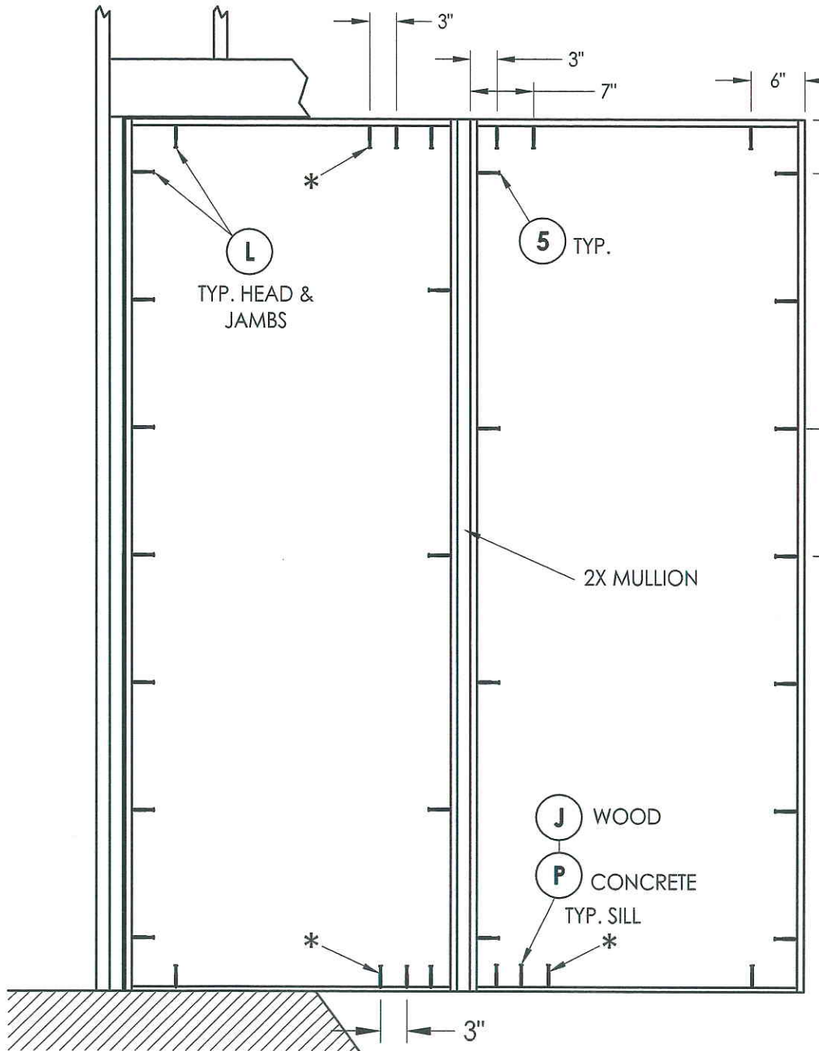
HINGE JAMB

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

FRAME ANCHORING
X

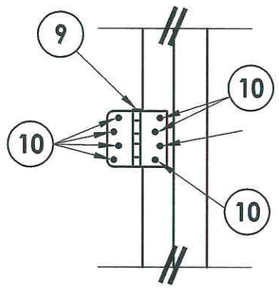


STRIKE JAMB

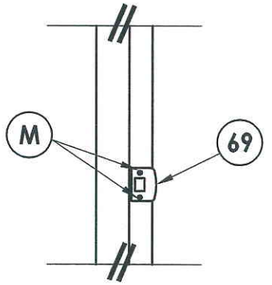


FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

FRAME ANCHORING
XO / OX



HINGE DETAIL



LATCH DETAIL

*ADDITIONAL ANCHOR REQ'D
FOR D.P. > 40 PSF
(WOOD SUBSTRATE ONLY)

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
4-20-10

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: *FRAME ANCHORING*

NO.	DATE	REVISIONS	BY

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 8 OF 10

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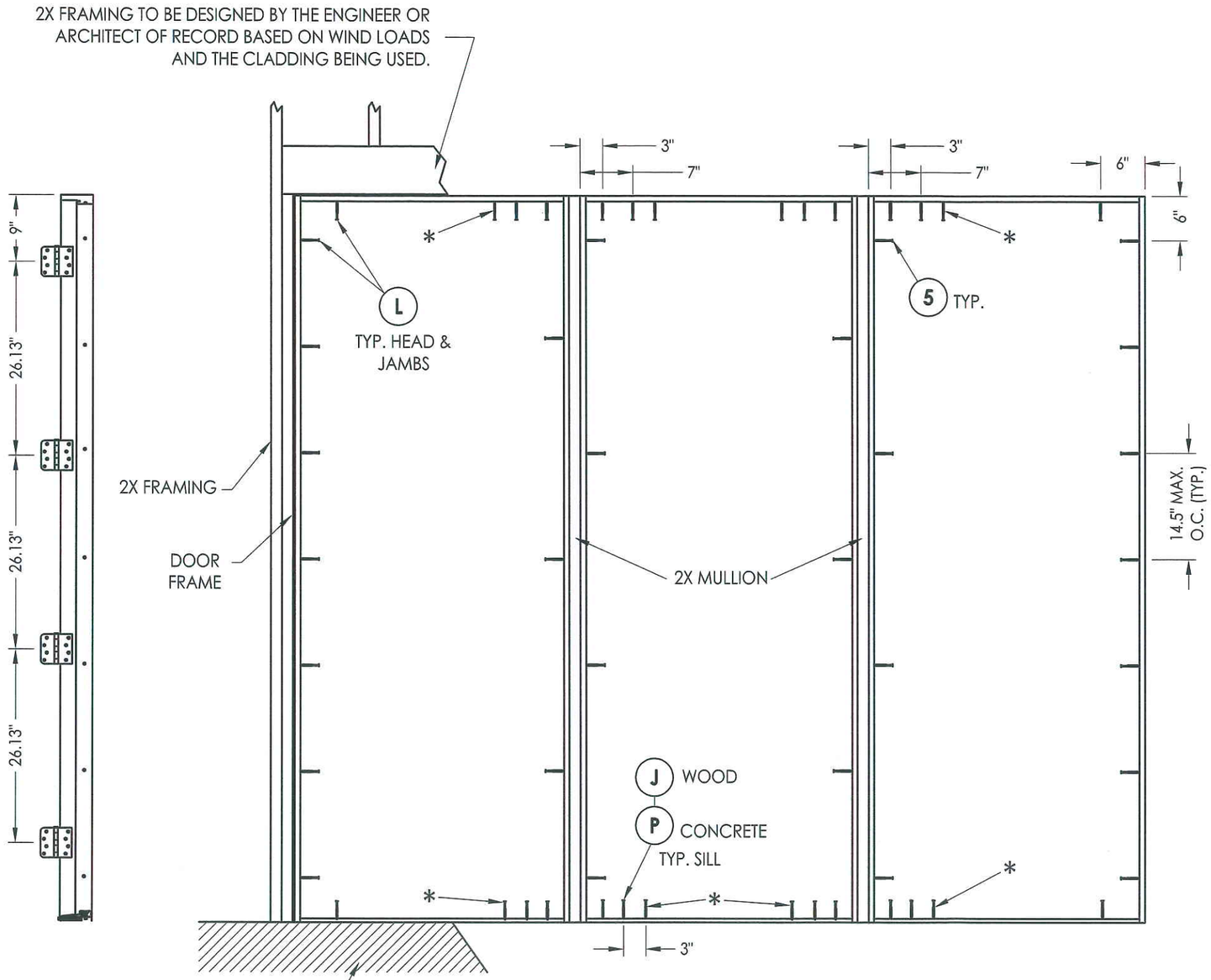
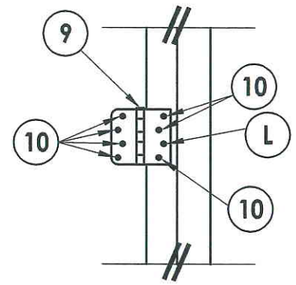


HINGE JAMB

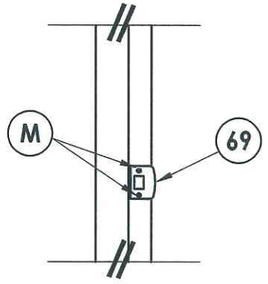
FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

FRAME ANCHORING
OXO

STRIKE JAMB



HINGE DETAIL



LATCH DETAIL

* ADDITIONAL ANCHOR REQ'D FOR D.P. > 40 PSF (WOOD SUBSTRATE ONLY)

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
4-20-12

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: PLASTPRO FIBERGLASS DOOR

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY
REVISIONS		

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 9 OF 10

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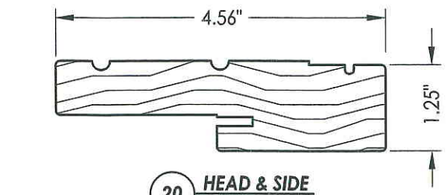
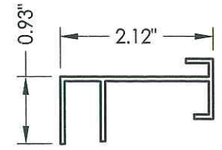
BILL OF MATERIALS

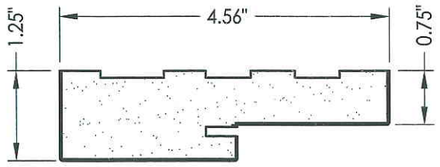
ITEM	DESCRIPTION	MATERIAL
A	2X HEADER FRAMING SG >= 0.42	WOOD
B	2X FRAMING SG >= 0.42	WOOD
C	1/4" MAX. SHIM SPACE	-
J	#10 X 3" PFH WOOD SCREW	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
K	2X REINFORCEMENT (CLEAR PINE SG >= 0.42)	WOOD
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL
M	#8 X 2-1/2" PFH WOOD SCREW	STEEL
5	#10 X 3" PFH SCREW	STEEL
6	SEALANT	SILICONE
7	WEATHERSTRIP BY Q-LON	FOAM
9	4" HINGE	STEEL
10	#9 X 3/4" PFH WOOD SCREW	STEEL
20	JAMB FINGER - JOINT - PINE (SG >= 0.42)	WOOD
21	POLY FIBER JAMB	POLY FIBER
22	#7 X 2" PFH DRYWALL SCREW	STEEL
29	SIDELITE SPACER	PVC
30	DOOR SWEEP	ALUM.
35	TRIM	WOOD
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
65	MULTI-POINT LOCK ASSEMBLY TRILENNIUM BY W & F	-
66	#10 X 1-1/2" PFH SCREW	STEEL
69	MULTI-POINT STRIKE PLATE	STEEL
70	INSWING THRESHOLD BY DLP	ALUM. / WOOD
71	ADA THRESHOLD BY DLP	ALUM.
72	OUTSWING THRESHOLD BY DLP	ALUM. / WOOD
73	SIDELITE THRESHOLD BY DLP	ALUM. / WOOD



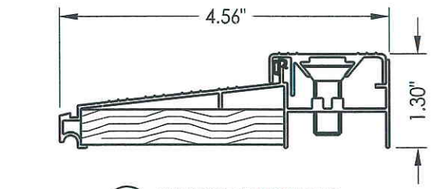
20 **HEAD & SIDE** Jamb



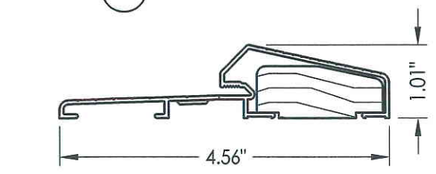
29 **SIDELITE SPACER**



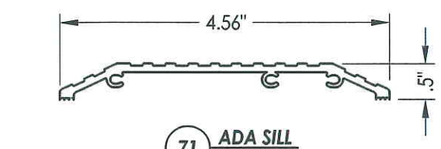
21 **HEAD & SIDE** Poly fiber jamb



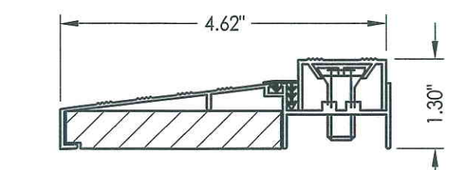
70 **INSWING THRESHOLD**



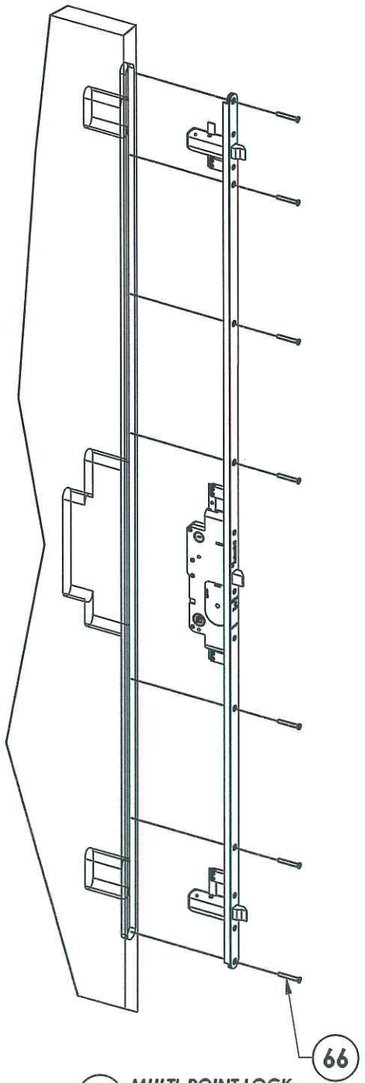
72 **OUTSWING THRESHOLD**



71 **ADA SILL**



73 **SIDELITE THRESHOLD**



65 **MULTI-POINT LOCK** Trilennium by W & F

CONCRETE ANCHOR NOTES:

1. *Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.*
2. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If 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" dimensions are not exceeded.*
3. *Concrete anchor table:*

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

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

4-20-10

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: PLASTPRO FIBERGLASS DOOR

PART OR ASSEMBLY: COMPONENTS, MULTI-LOCK DETAILS & B.O.M

NO.	DATE	BY
REVISIONS		

DATE: 04/13/10
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4072
SHEET 10 OF 10

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