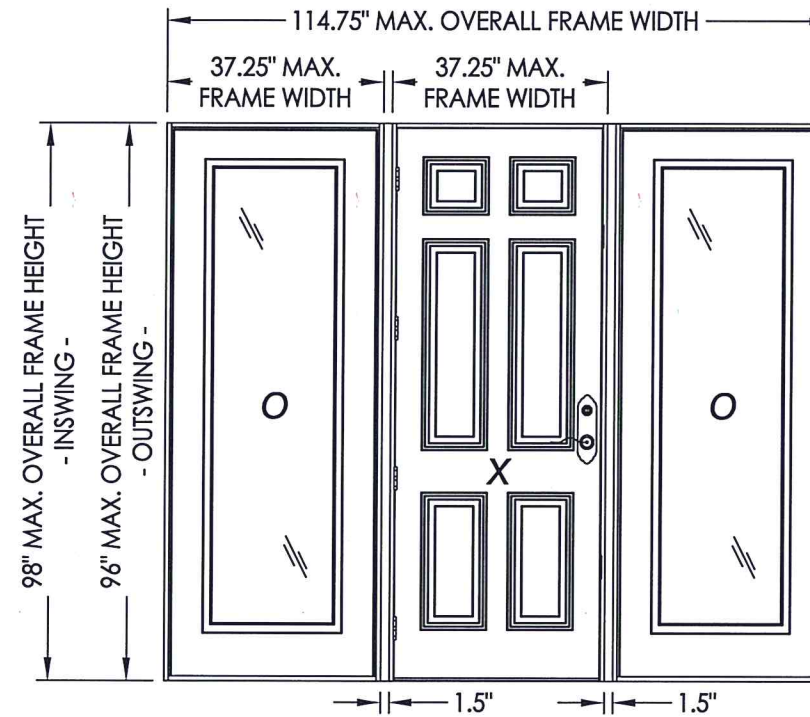
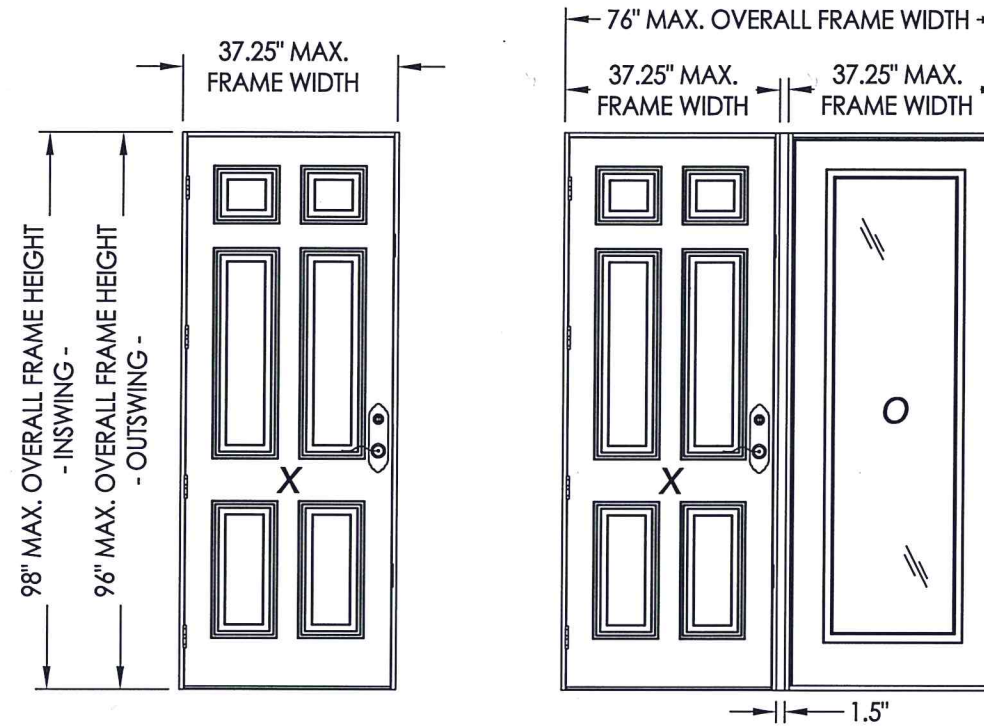


# plastpro

5200 W. CENTURY BLVD.  
LOS ANGELES, CA 90045

## OPAQUE FIBERGLASS SINGLE DOOR w/ or w/out SIDELITES INSWING / OUTSWING "IMPACT"



### EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 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 areas that require wind borne debris protection. 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 & 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	Lite frame & glazing details
11	Bill of materials and components

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 98.0"	20.63" x 78.75"	G1	+50.0	-55.0	+50.0	-50.0
OX / XO	76.0" x 98.0"	20.63" x 78.75"		+50.0	-55.0	+50.0	-50.0
OXO	114.75" x 98.0"	20.63" x 78.75"		+50.0	-55.0	+50.0	-50.0



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Phone No.: 813.659.9197

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

PRODUCT: PLASTPRO FIBERGLASS DOOR

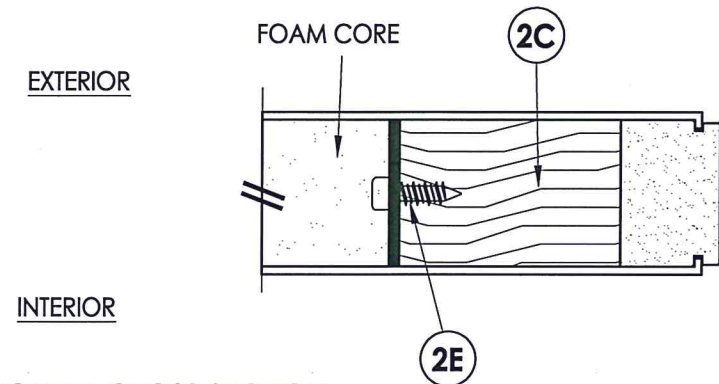
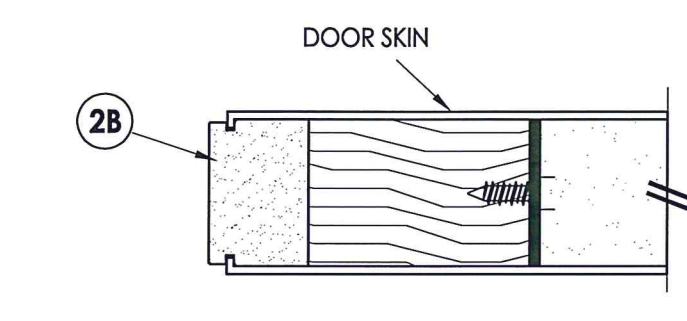
PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
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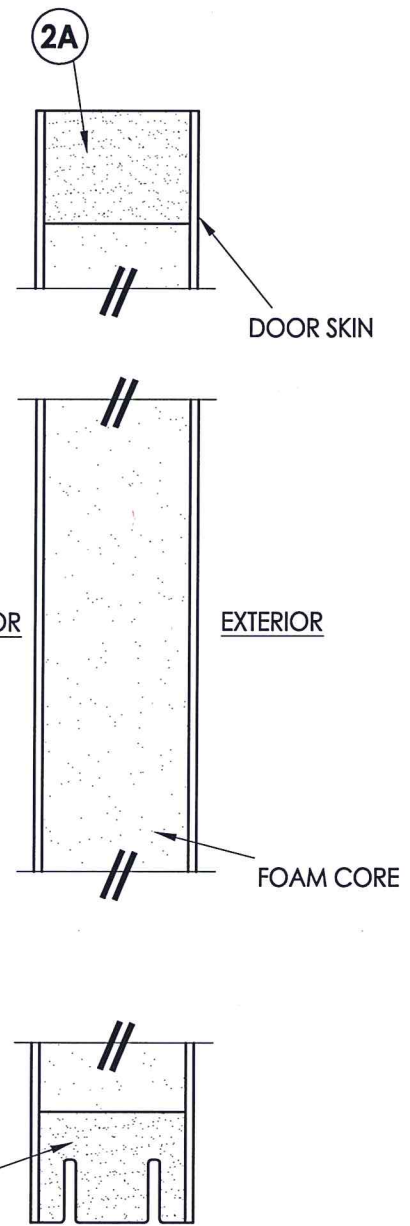
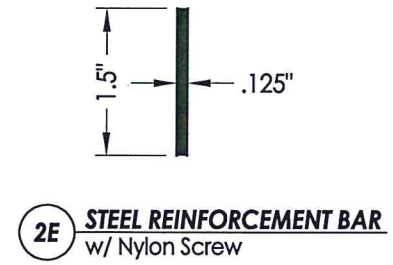
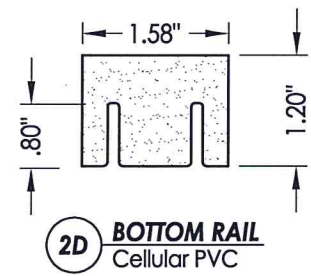
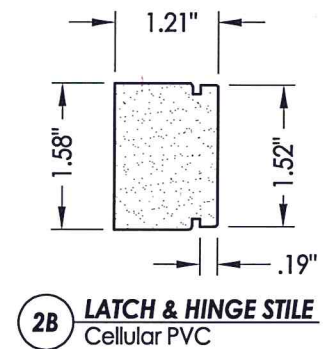
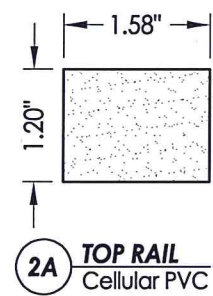
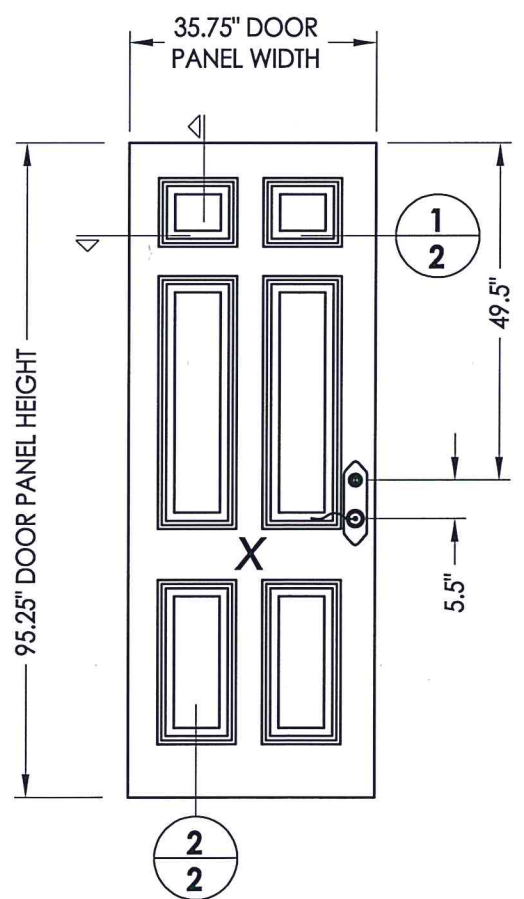
DATE: 04/13/10  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4074  
SHEET 1 OF 11



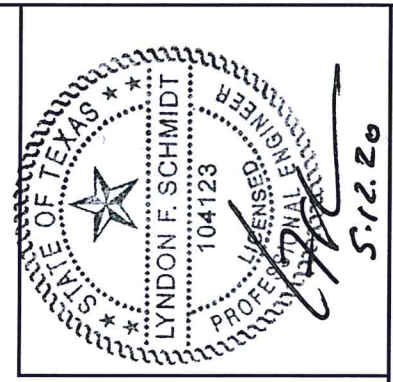
R:\Clients\Plastpro, Inc PERMANENT\B - TD\Hinged Doors - Fiberglass\DR - 444 Opaque Fiberglass (Impact)\C - Drawings\TX-4074-75.dwg, 3-2



1  
2 **HORIZONTAL CROSS SECTION**



2  
2 **VERTICAL CROSS SECTION**



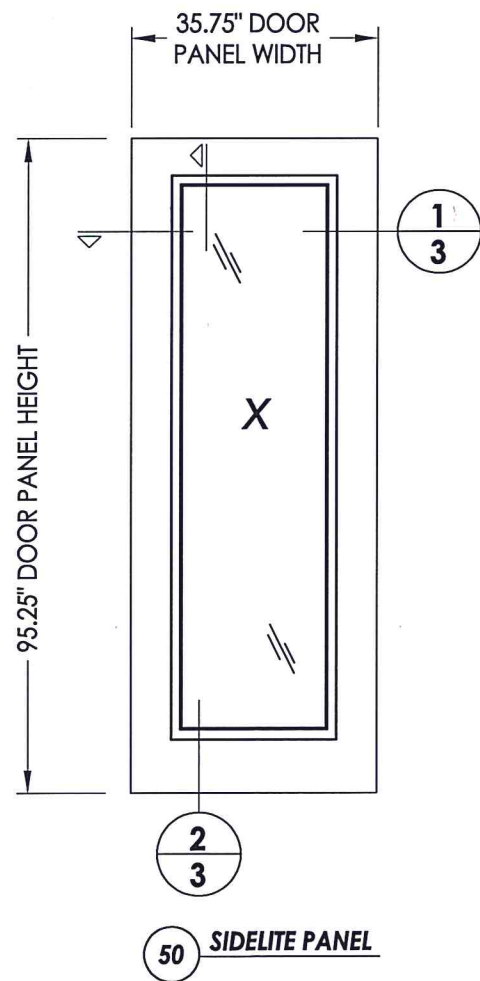
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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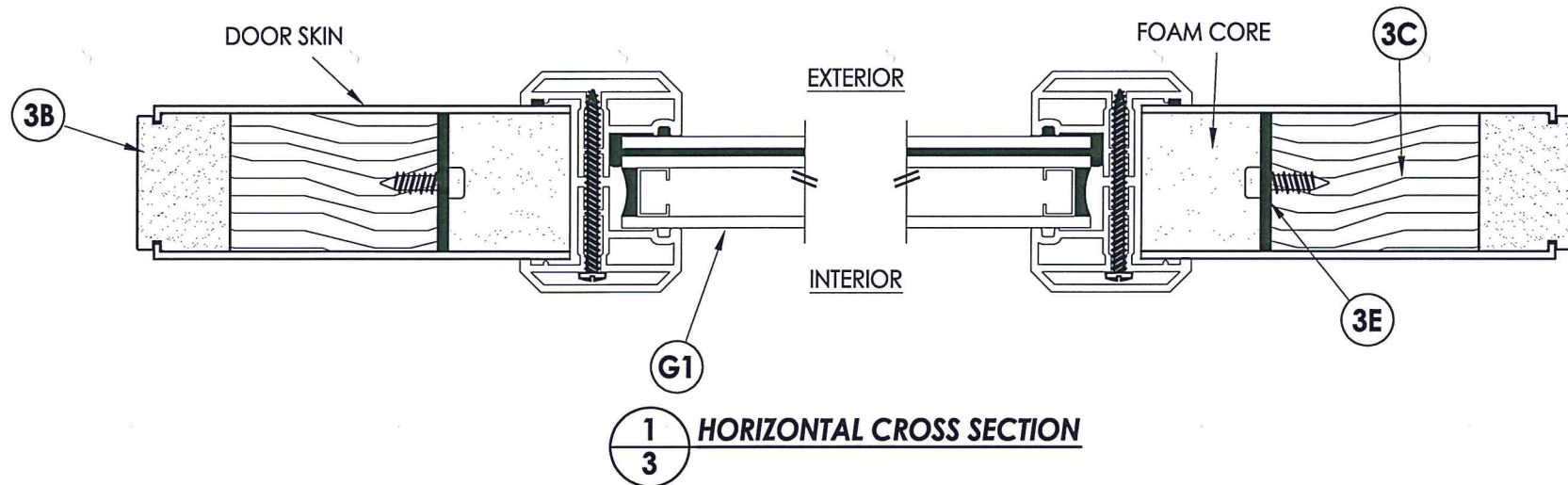
PRODUCT: PLASTPRO FIBERGLASS DOOR	
PART OR ASSEMBLY: DOOR PANEL & GLAZING DETAILS	
NO.	DATE
1	5/11/20
UPDATE TO 2018 IBC/IRC CODE AND REVISE IMPACT LITE FRAME	
LFS	BY
REVISIONS	
DATE: 04/13/10	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4074	
SHEET 2 OF 11	

FIBERGLASS DOOR SKIN: MIN. 0.075" THK.  
CORE MATERIAL: POLYURETHANE FOAM (MIN. 1.9 PCF DENSITY)

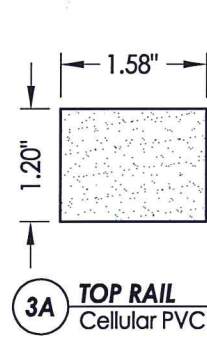


50 SIDELITE PANEL

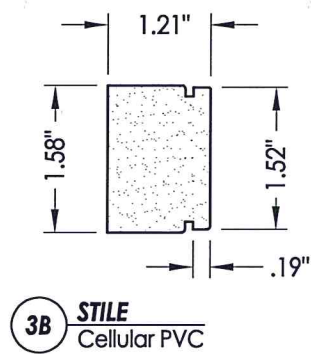
FIBERGLASS DOOR SKIN: MIN. 0.075\"/>



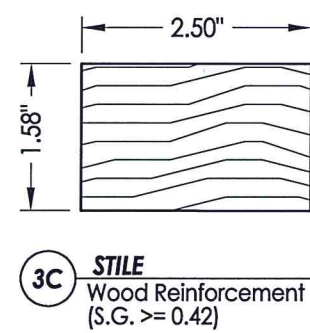
1  
3 HORIZONTAL CROSS SECTION



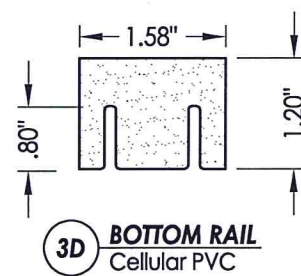
3A TOP RAIL  
Cellular PVC



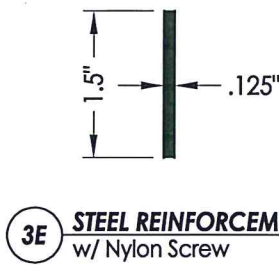
3B STILE  
Cellular PVC



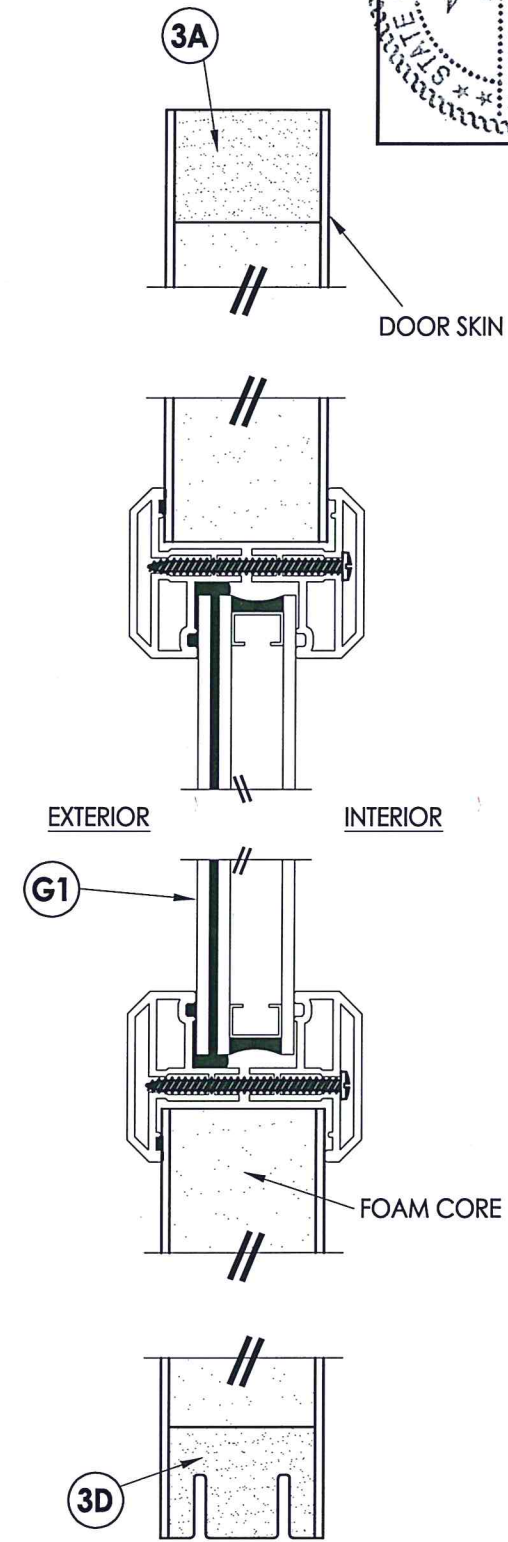
3C STILE  
Wood Reinforcement  
(S.G. >= 0.42)



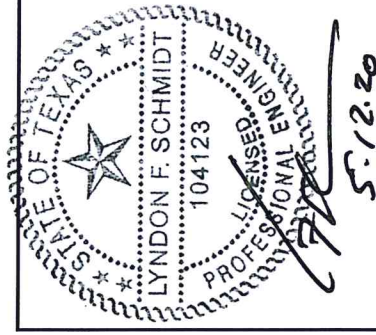
3D BOTTOM RAIL  
Cellular PVC



3E STEEL REINFORCEMENT BAR  
w/ Nylon Screw



2  
3 VERTICAL CROSS SECTION



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

PRODUCT:  
PLASTPRO  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
SIDELITE PANEL &  
GLAZING DETAILS

REVISIONS	
NO.	DATE
1	5/11/20
	DATE
	BY

DATE: 04/13/10

SCALE: N.T.S.

DWG. BY: JK

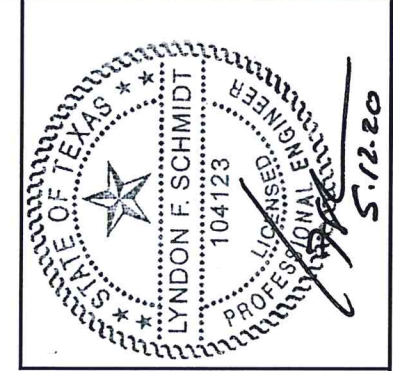
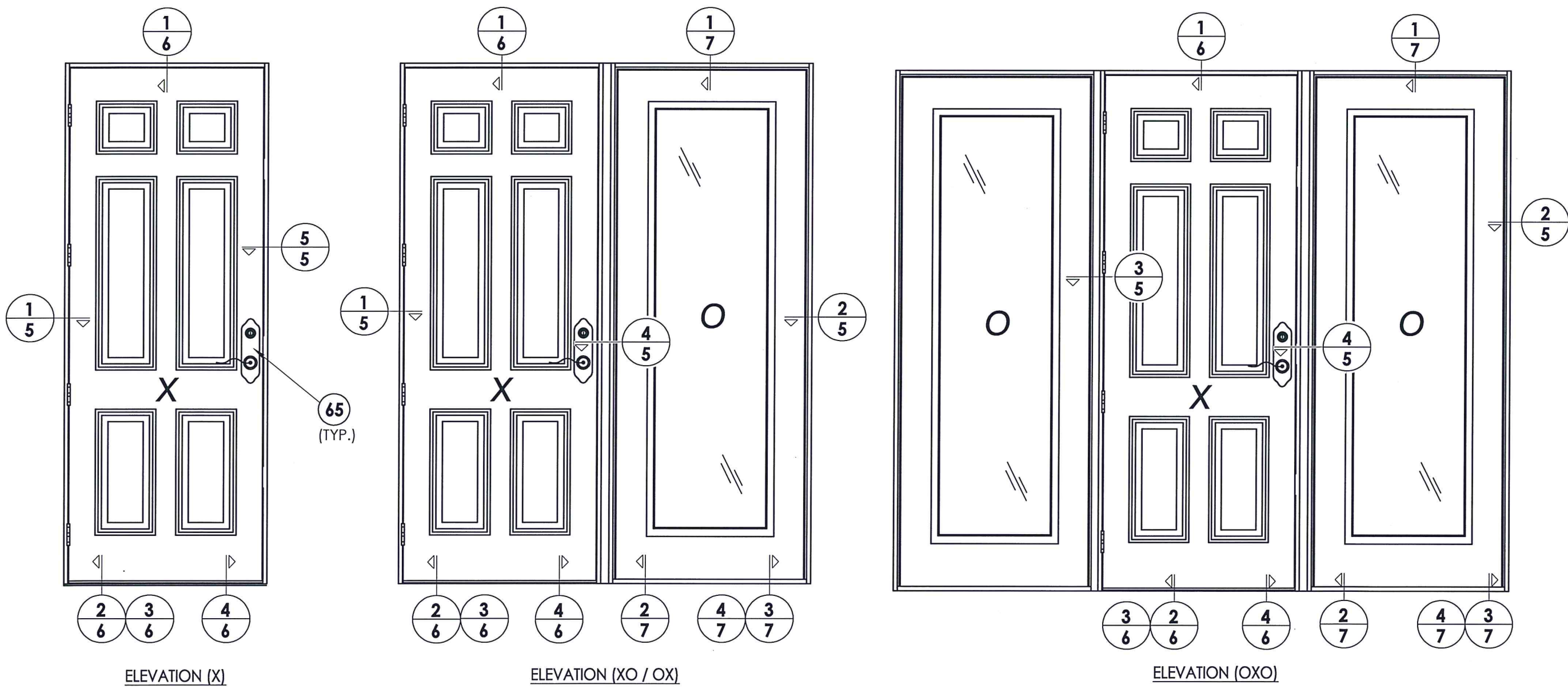
CHK. BY: LFS

DRAWING NO.: TX-4074

SHEET 3 OF 11



R:\Clients\Plastpro, Inc PERMANENT\B - TD\Hinged Doors - Fiberglass\DR - 444 Opaque Fiberglass (Impact)\C - Drawings\TX-4074-75.dwg, 3-4



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: ELEVATIONS

NO.	DATE	REVISIONS	BY
1	5/11/20	UPDATE TO 2018 IBC/IRC CODE AND REVISE IMPACT LITE FRAME	LFS

DATE: 04/13/10

SCALE: N.T.S.

DWG. BY: JK

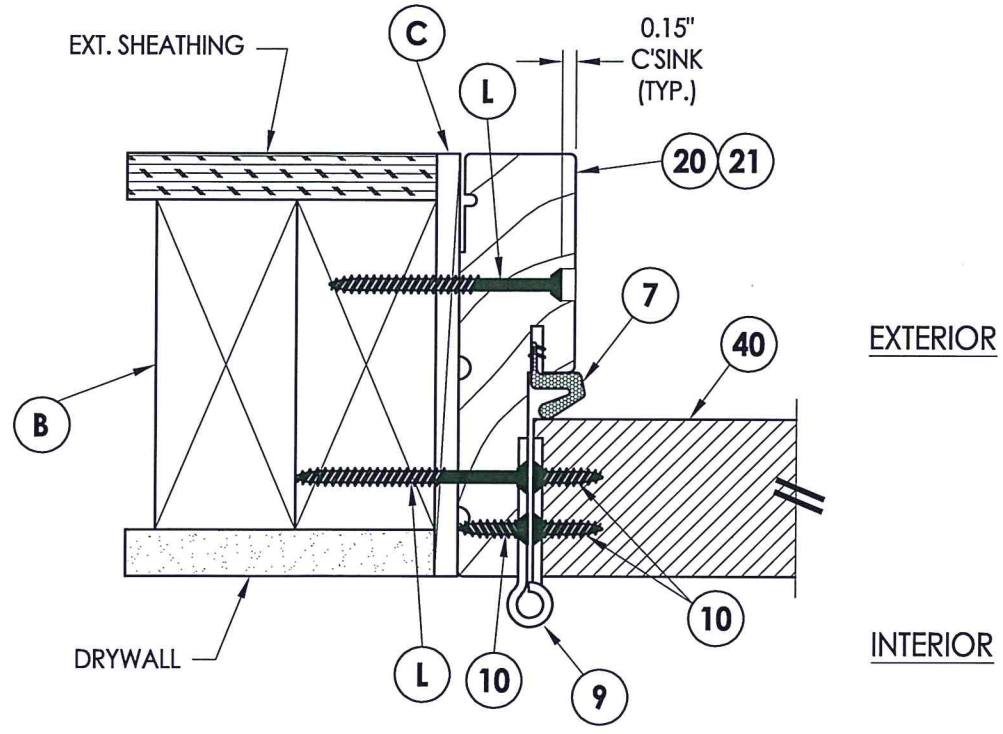
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DRAWING NO.: TX-4074

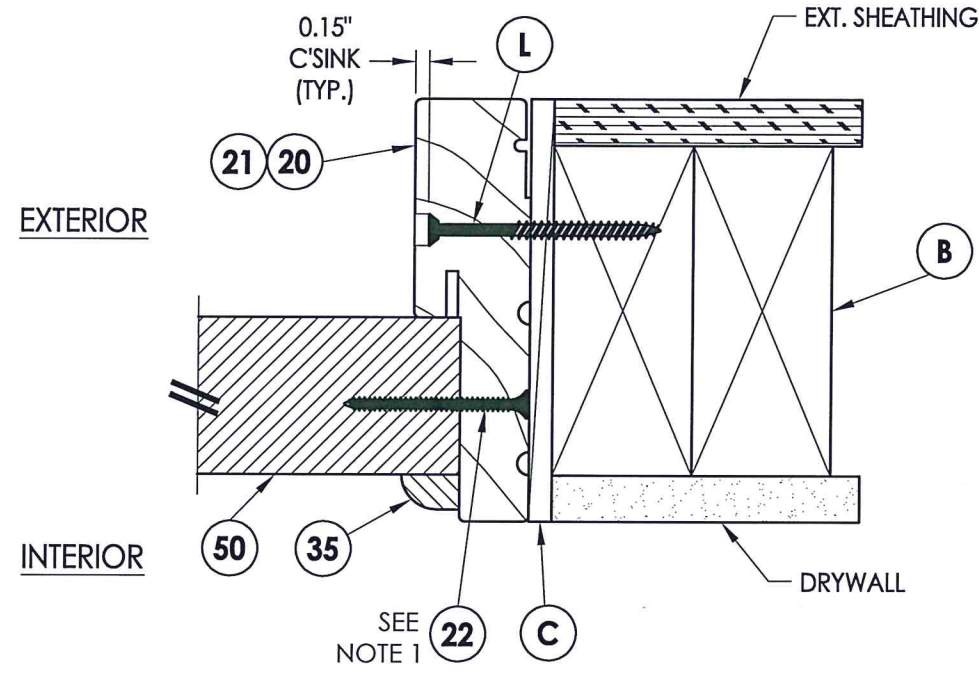
SHEET 4 OF 11



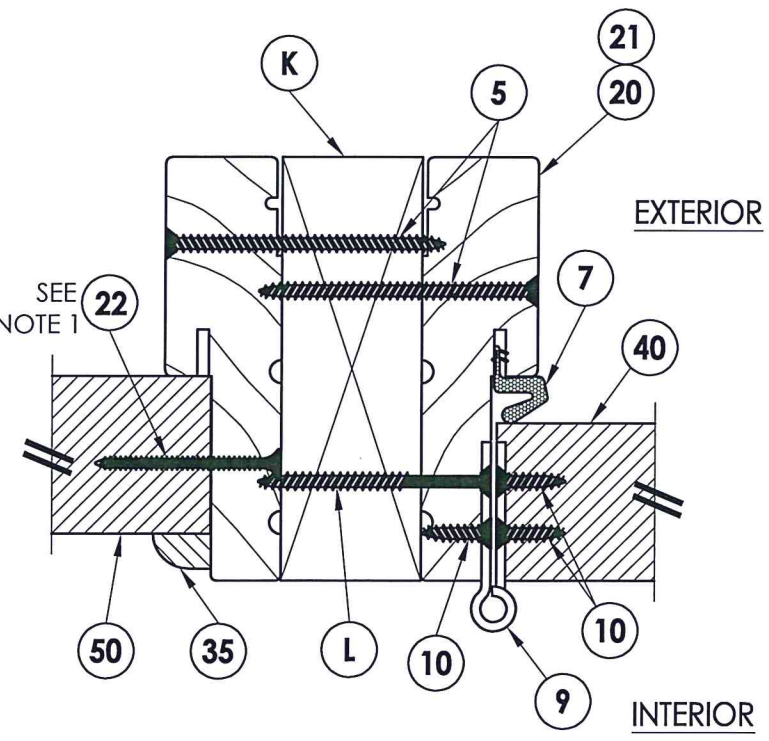
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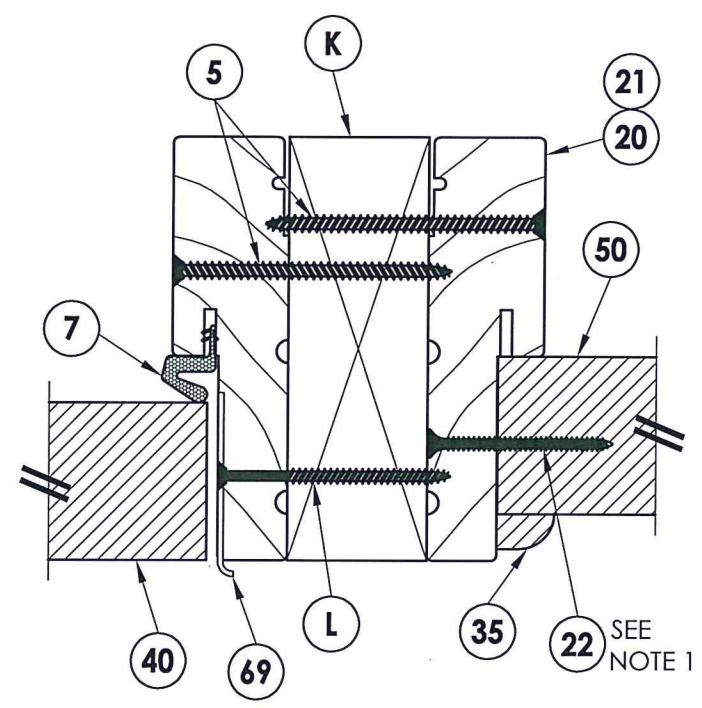
**1** HORIZONTAL CROSS SECTION  
**5** Inswing shown - outswing also approved



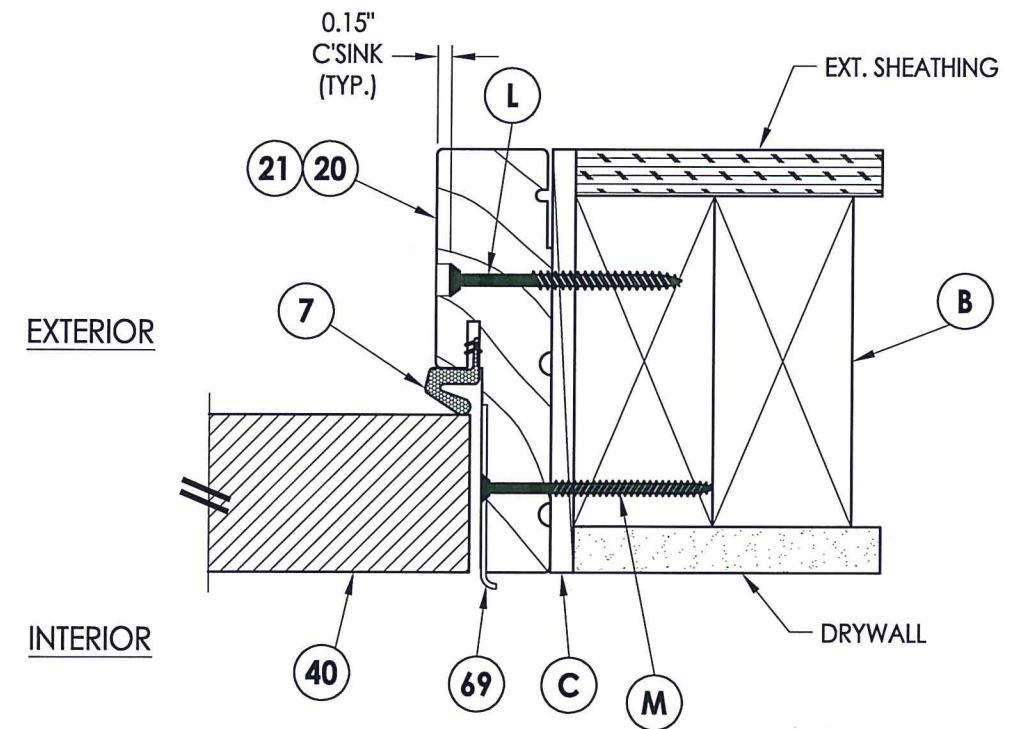
**2** HORIZONTAL CROSS SECTION  
**5** Inswing shown - outswing also approved



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

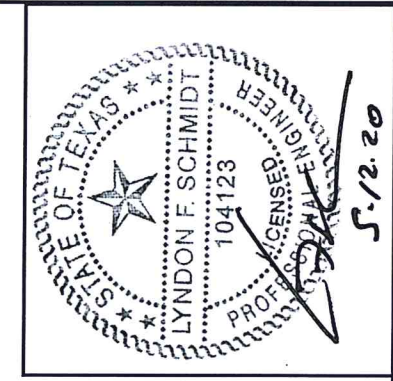


**4** HORIZONTAL CROSS SECTION  
**5** Inswing shown - outswing also approved



**5** HORIZONTAL CROSS SECTION  
**5** 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.



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: HORIZONTAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS
1	5/11/20	LFS	UPDATE TO 2018 IBC/IRC CODE AND REVISE IMPACT LITE FRAME

DATE: 04/13/10  
 SCALE: "N.T.S."  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: TX-4074  
 SHEET 5 OF 11

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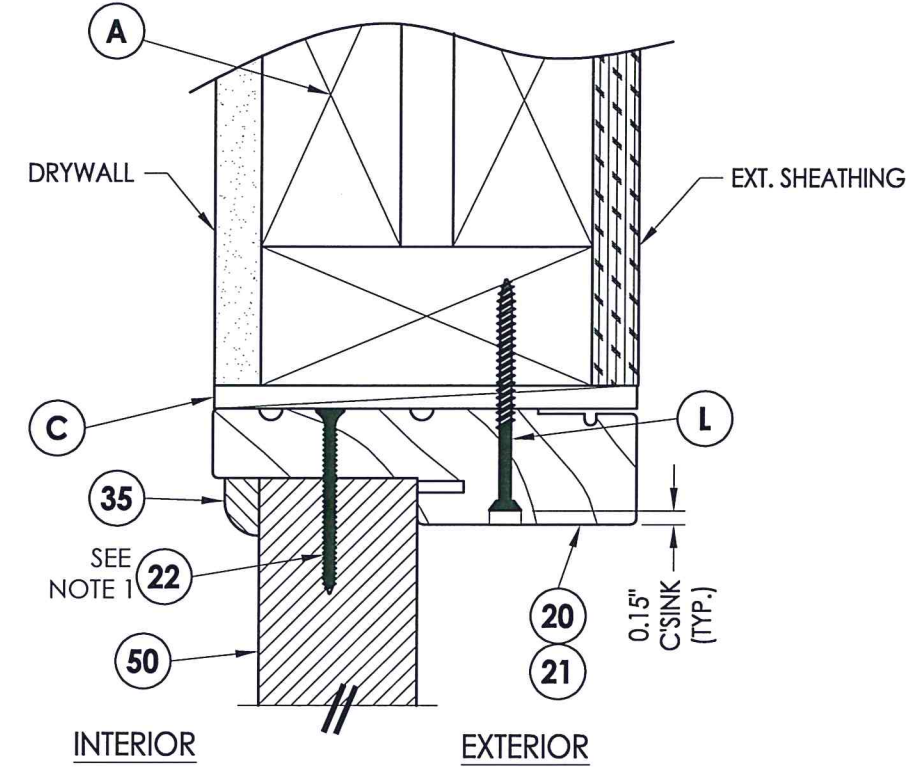






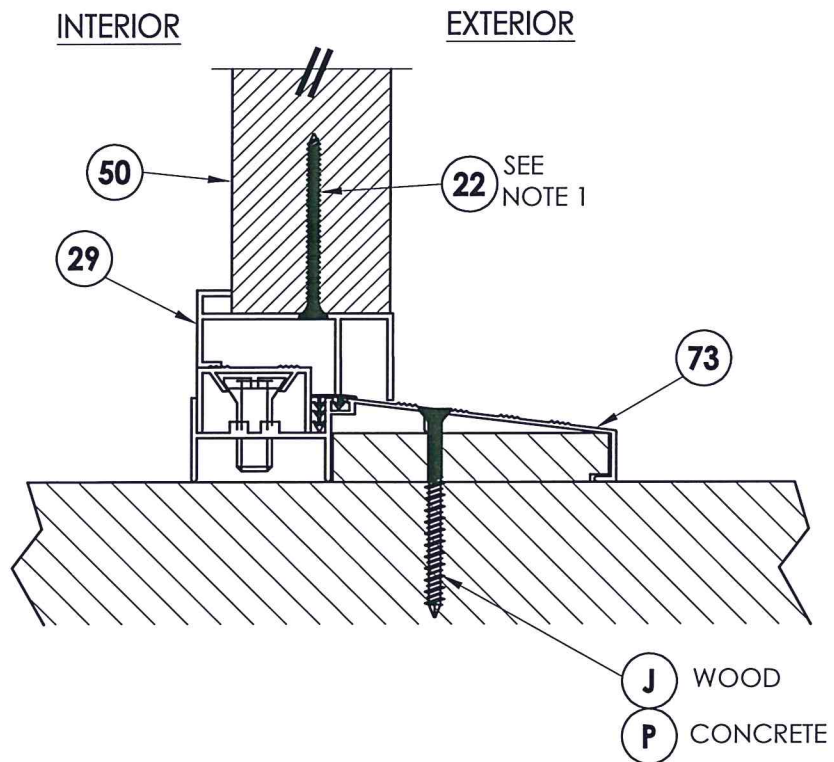
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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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

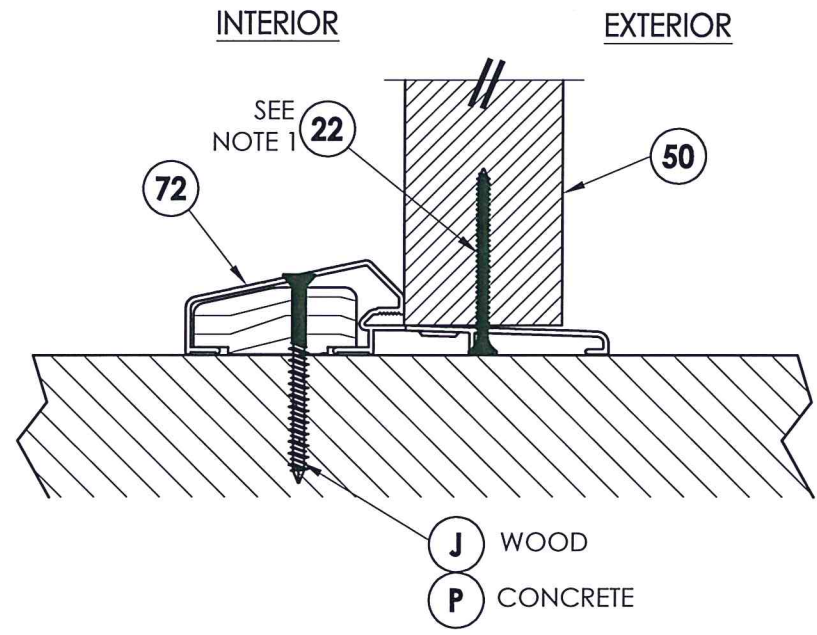


**NOTE:**  
1. Screws thru head and sill jamb located 3" from each end and on center line.

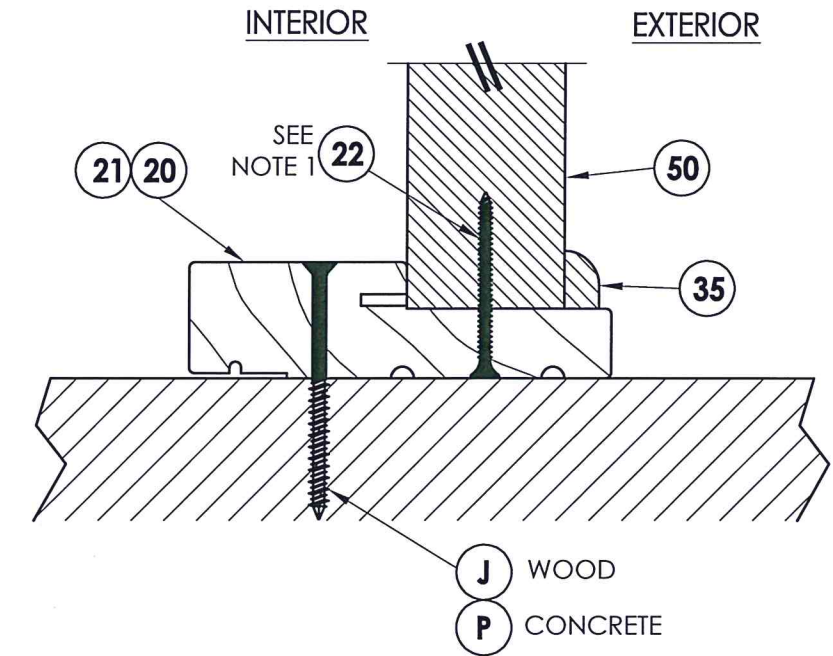
**1** VERTICAL CROSS SECTION  
**7** Inswing shown - outswing also approved



**2** VERTICAL CROSS SECTION  
**7** Inswing configuration



**3** VERTICAL CROSS SECTION  
**7** Outswing configuration



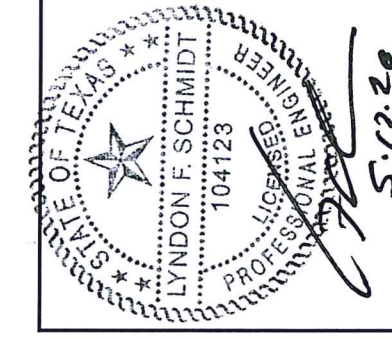
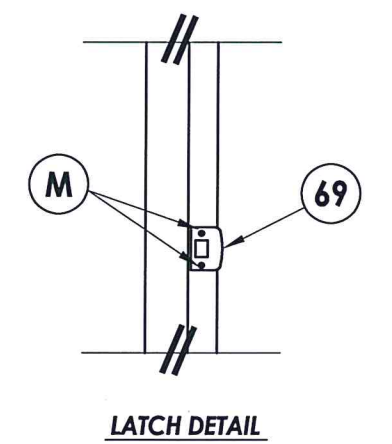
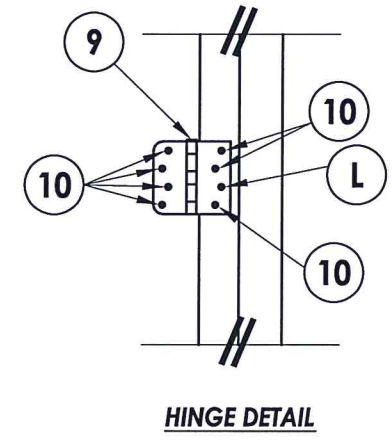
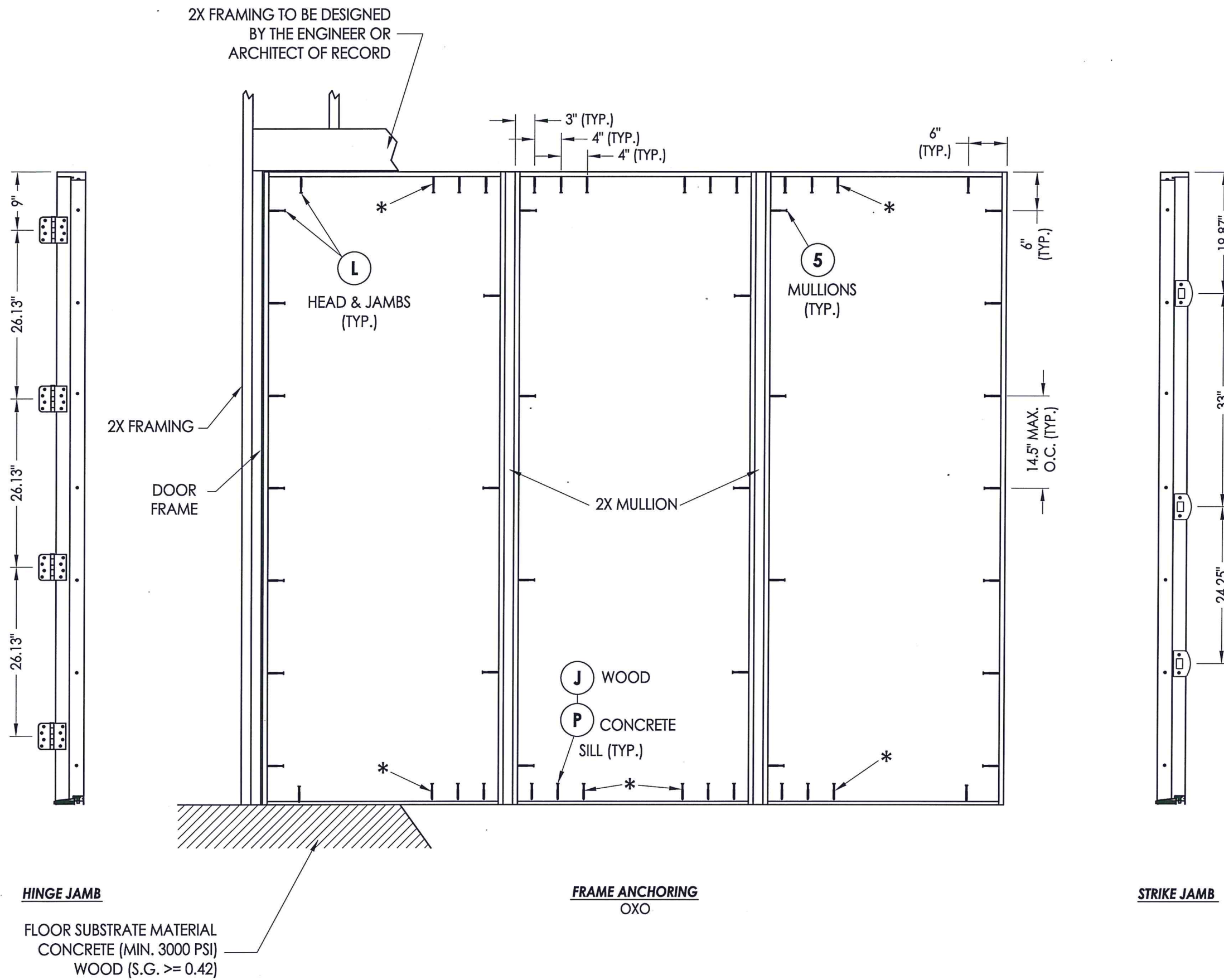
**4** VERTICAL CROSS SECTION  
**7** Outswing configuration

PRODUCT:		PLASTPRO FIBERGLASS DOOR	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
1	5/11/20	LFS	UPDATE TO 2018 IBC/IRC CODE AND REVISE IMPACT LITE FRAME
DATE: 04/13/10			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4074			
SHEET 7 OF 11			









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

PRODUCT: PLASTPRO FIBERGLASS DOOR

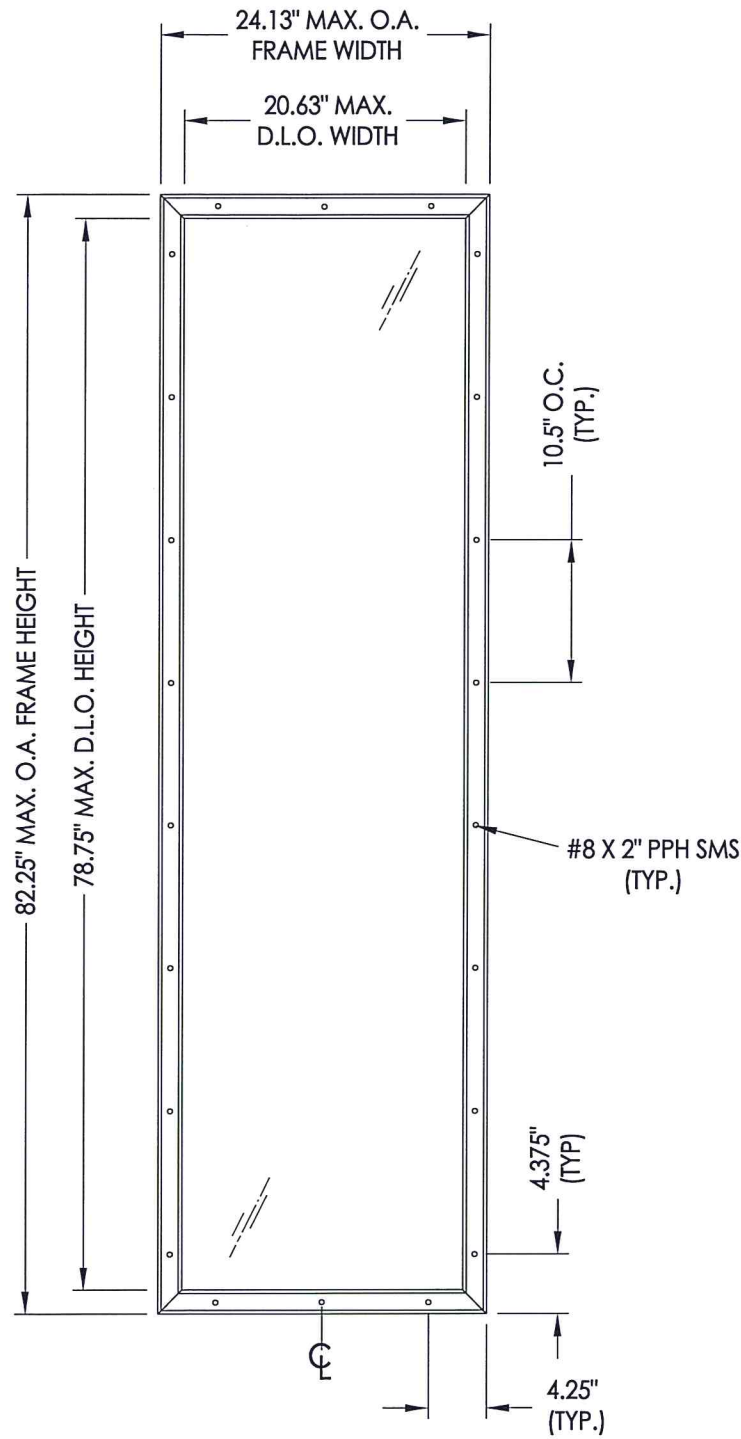
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS	BY
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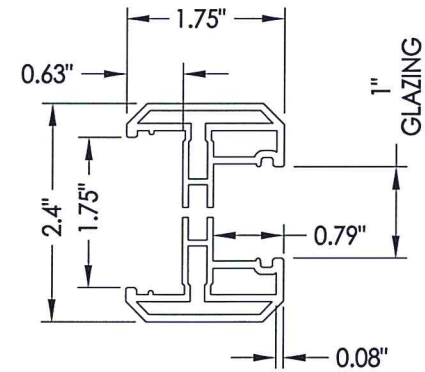
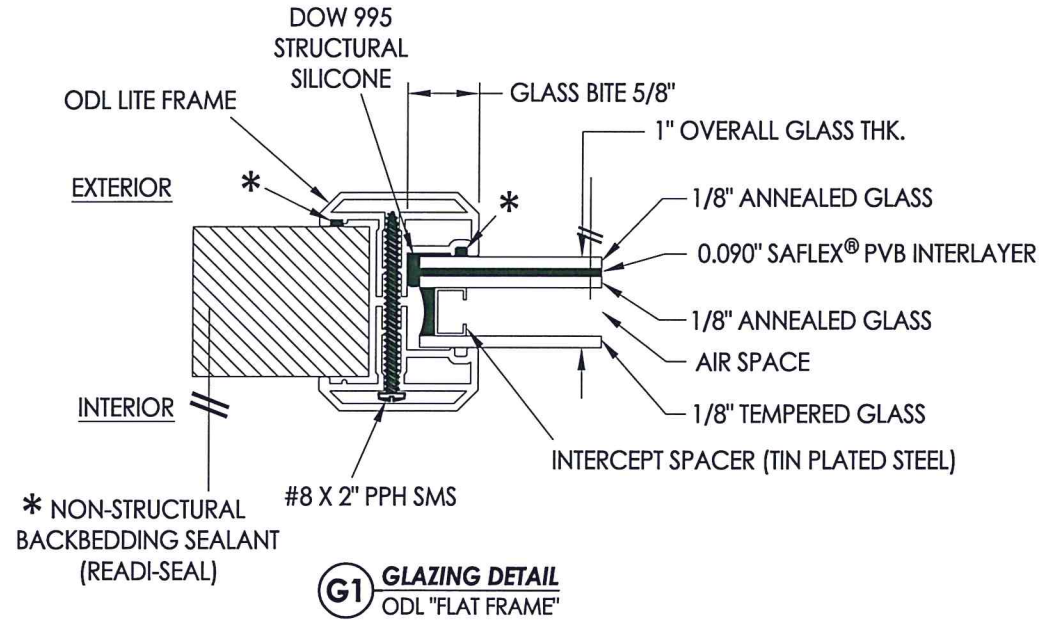
DATE: 04/13/10  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4074  
SHEET 9 OF 11

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

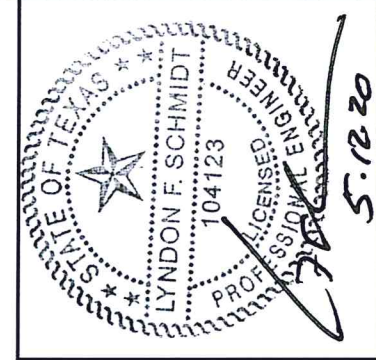




ODL LITE FRAME DETAIL  
"FLAT FRAME" PROFILE



ODL LITE FRAME  
"FLAT FRAME"  
(6063-T5 ALUM)



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:		LITE FRAME & GLAZING DETAILS	
NO.	DATE	REVISIONS	BY
1	5/11/20	UPDATE TO 2018 IBC/IRC CODE AND REVISE IMPACT LITE FRAME	LFS
REVISIONS			
DATE: 04/13/10			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4074			
SHEET 10 OF 11			



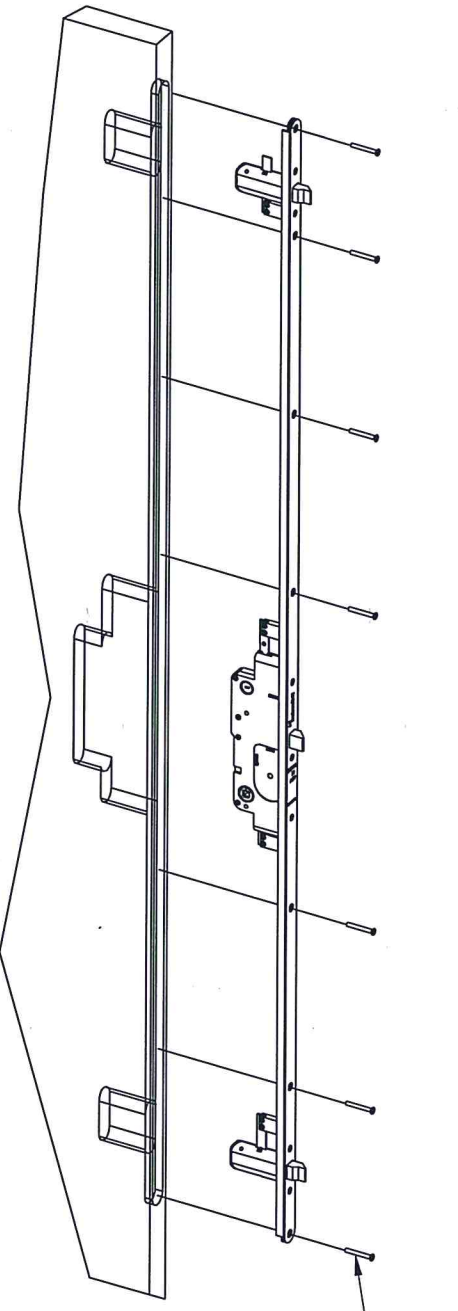
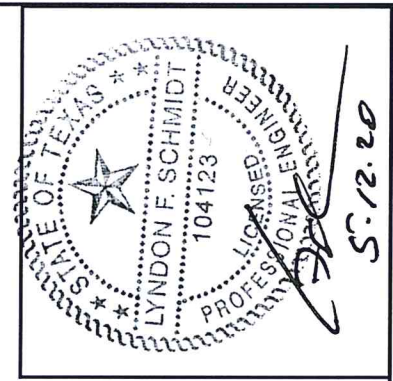
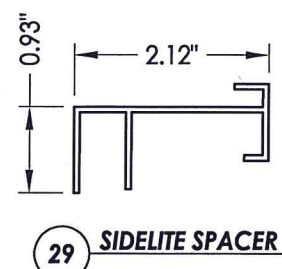
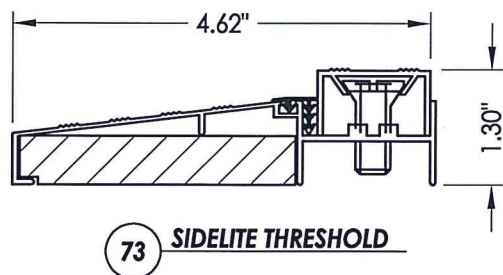
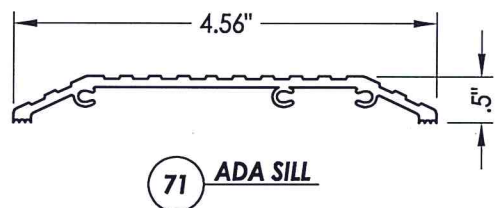
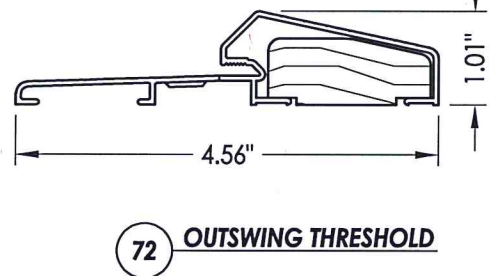
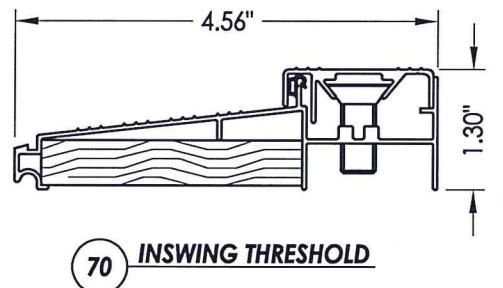
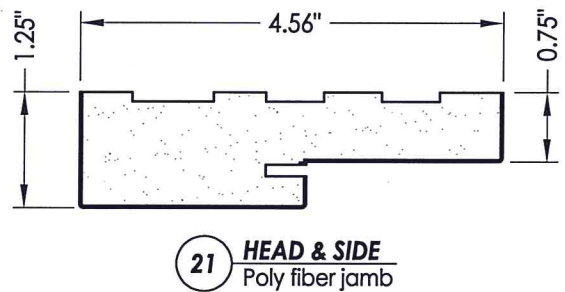
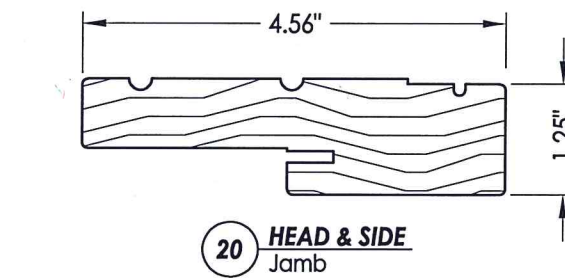
R:\Clients\Plastpro, Inc PERMANENT\B - TD\Hinged Doors - Fiberglass\DR - 444 Opaque Fiberglass (Impact)\C - Drawings\TX-4074-75.dwg, 3-11

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

**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"



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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	REVISIONS
1	5/11/20	UPDATE TO 2018 IBC/IRC CODE AND REVISE IMPACT LITE FRAME

DATE: 04/13/10

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4074

SHEET 11 OF 11