plastpro

5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

Rustic/Mahogany/Woodgrain/Smooth Skin Series
Fiberglass Single Door w/ & w/out Sidelite(s)

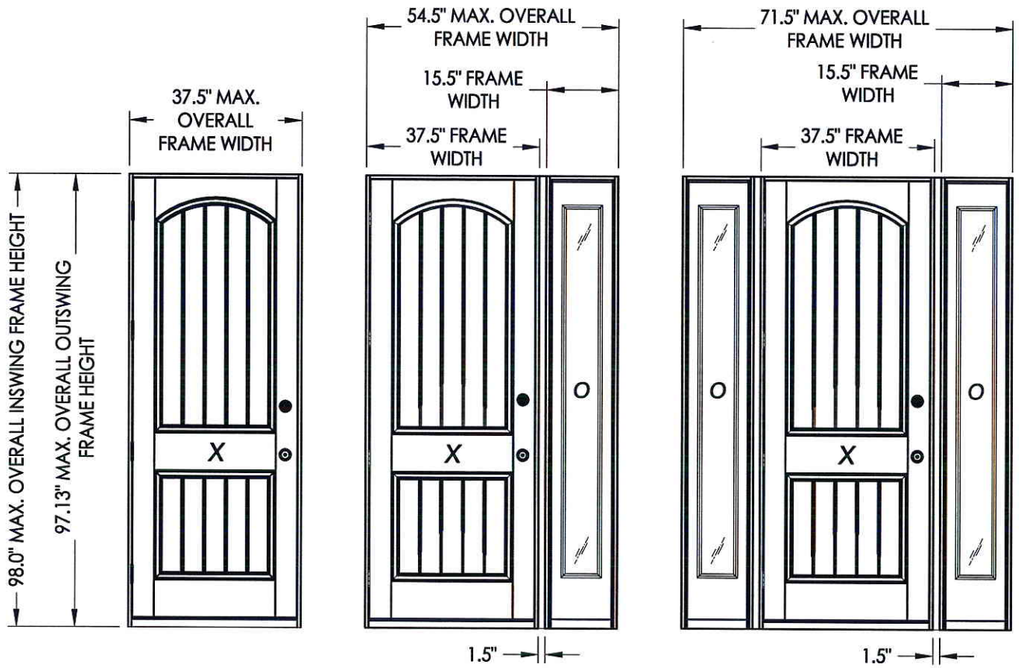
INSWING / OUTSWING
"IMPACT"

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 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	Door panel details
4	Sidelite panel details
5	Glazing details
6	Glazing details
7	Elevations
8	Horizontal cross sections
9	Vertical cross sections
10	Vertical cross sections
11	Frame anchoring
12	Frame anchoring
13	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	MAX. SIDELITE D.L.O. DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.5" x 98.0"	N / A	+60.0	-65.0	+60.0	-60.0
XO/OX	54.5" x 98.0"	6.75" X 78.75"	+55.0	-60.0	+55.0	-55.0
OXO	71.5" x 98.0"	6.75" X 78.75"	+55.0	-60.0	+55.0	-55.0

STATE OF TEXAS ★★★ LYNDON F. SCHMIDT 104123 LICENSED PROFESSIONAL ENGINEER 12.5.12

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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: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 1 OF 13

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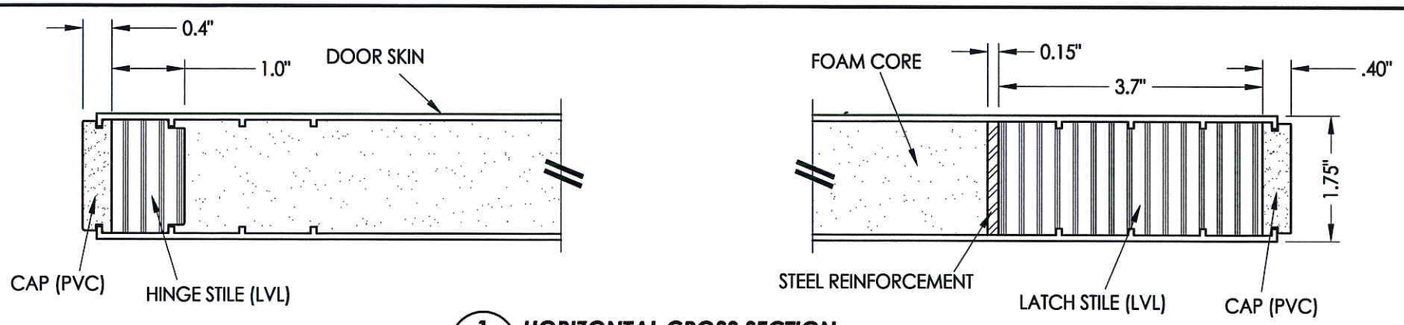
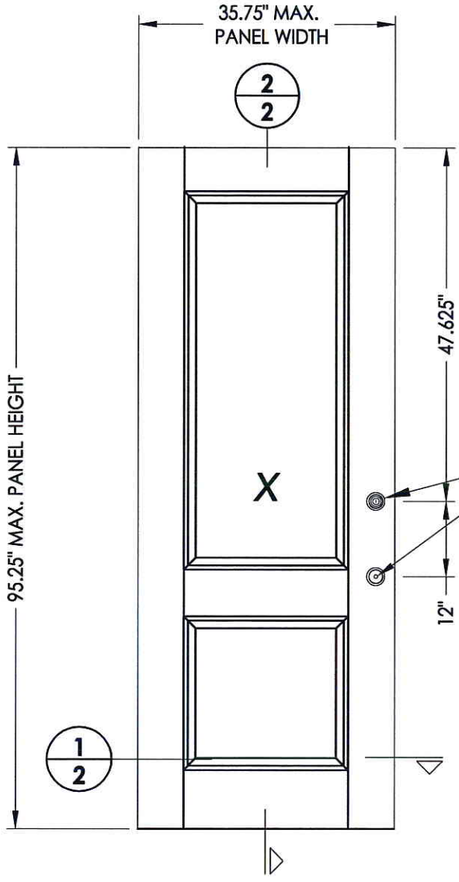
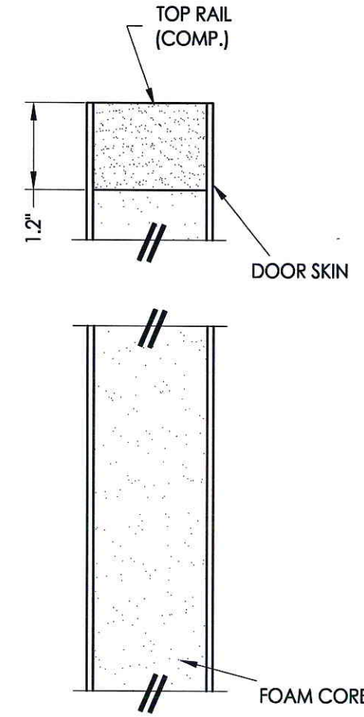


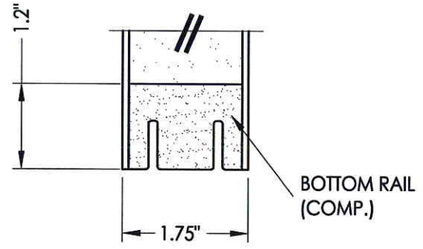
1/2 HORIZONTAL CROSS SECTION



40 DOOR PANEL
Woodgrain / Smooth Skin Series

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: "F" SERIES DEADBOLT: "B" SERIES
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (780)





2/2 VERTICAL CROSS SECTION

FIBERGLASS DOOR SKIN: MIN. 0.086" THK.
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)

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

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR

PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	BY	REVISIONS

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 2 OF 13

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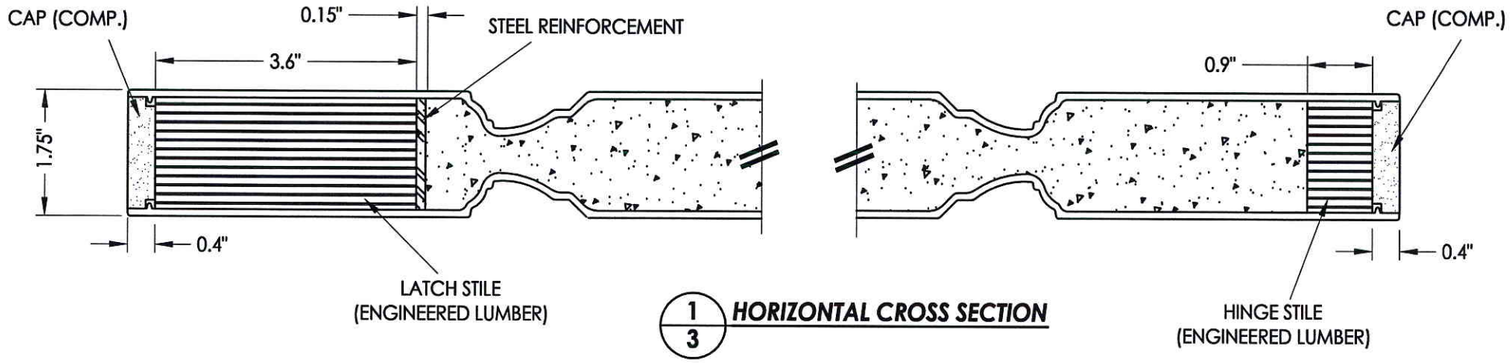
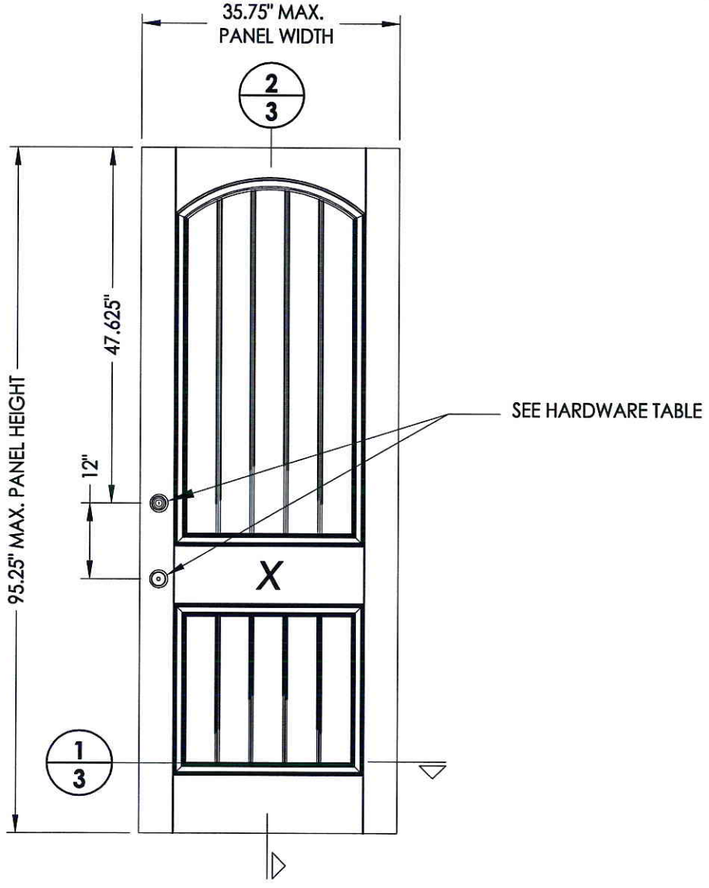
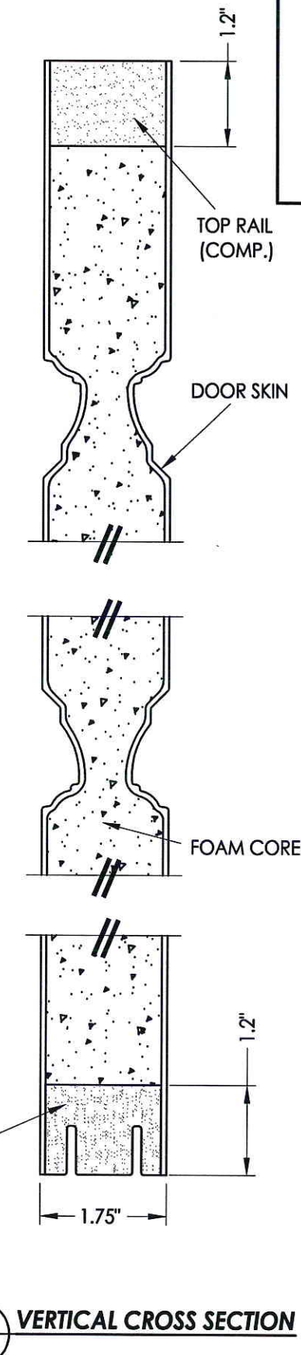


1/3 **HORIZONTAL CROSS SECTION**



41 **DOOR PANEL**
Rustic / Mahogany Series

HARDWARE TABLE	
MANUFACTURER	**MODEL**
SCHLAGE	KNOB: "F" SERIES DEADBOLT: "B" SERIES
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (780)



2/3 **VERTICAL CROSS SECTION**

FIBERGLASS DOOR SKIN: MIN. 0.100" THK.
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR

PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS	BY

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 3 OF 13

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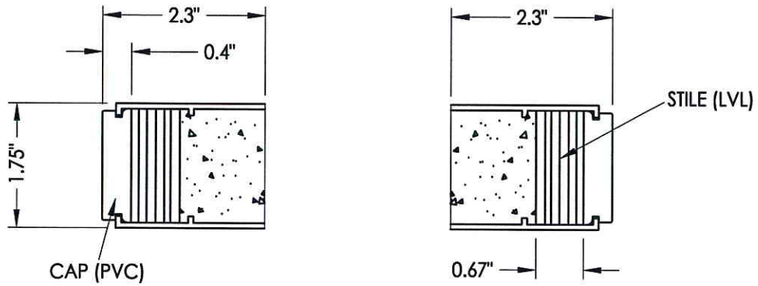

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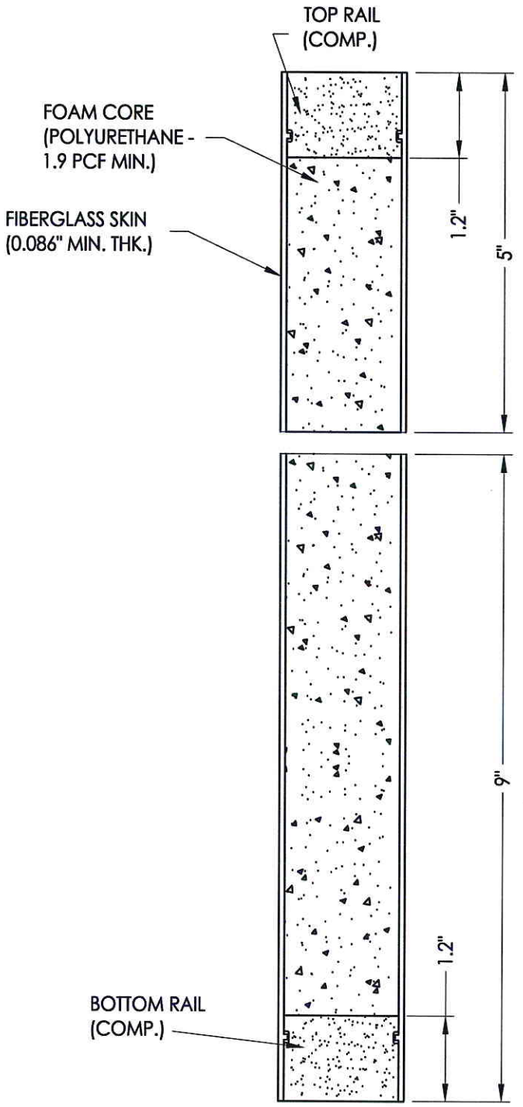

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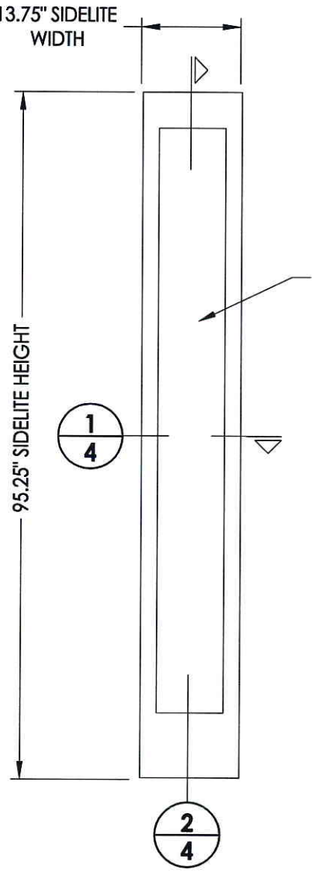

50 **SIDELITE PANEL**
Plastpro
Fiberglass

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

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

12.5.12

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR

PART OR ASSEMBLY: SIDELITE PANEL DETAILS

NO.	DATE	BY
REVISIONS		

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 4 OF 13

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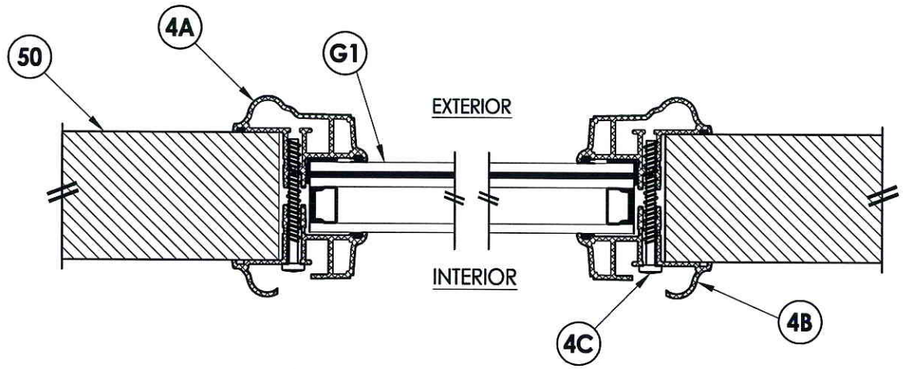
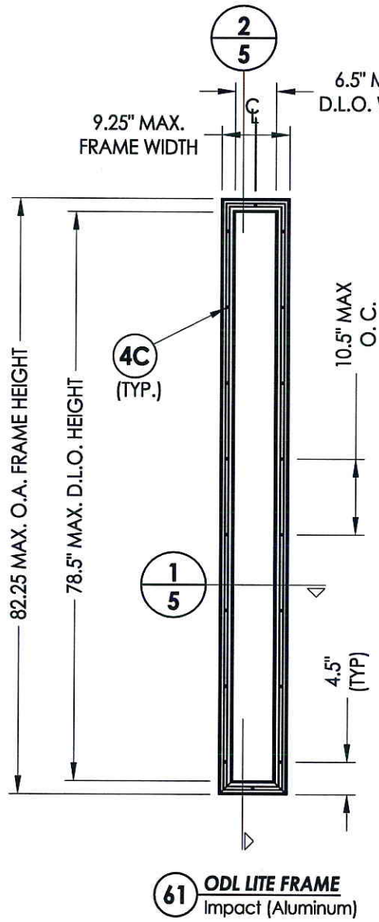
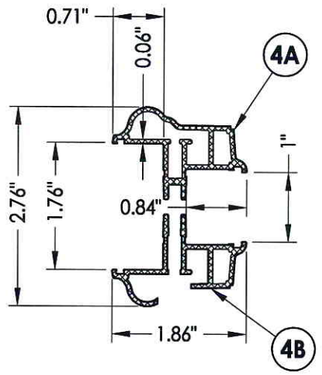


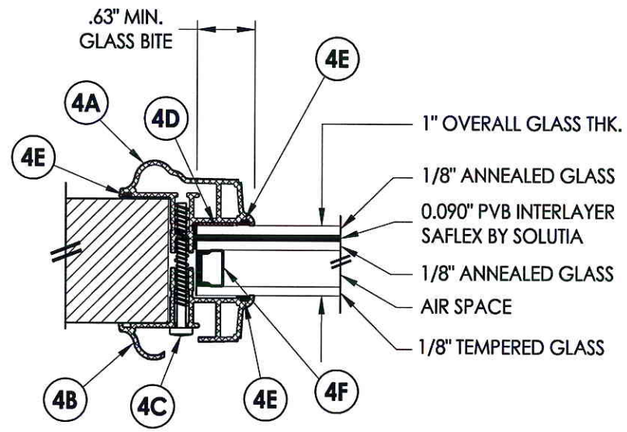
1/5 **HORIZONTAL CROSS SECTION**



61 **ODL LITE FRAME**
Impact (Aluminum)

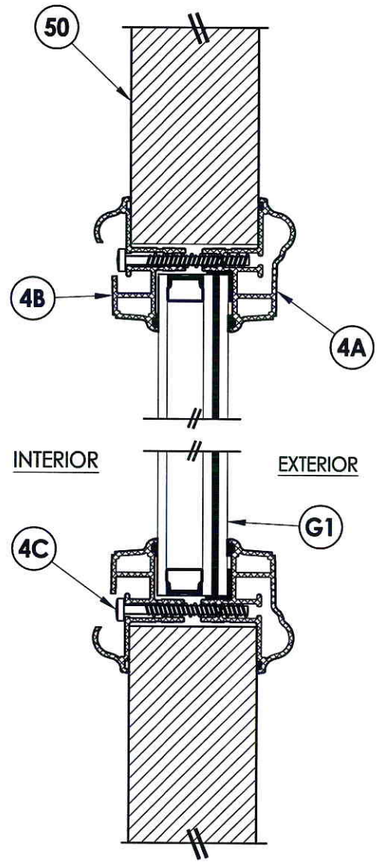


ODL LITE FRAME CROSS SECTION



G1 **GLAZING DETAIL**

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
4A	EXTERIOR FRAME	ALUM.
4B	INTERIOR FRAME	ALUM.
4C	#7-19 X 1-3/4" PPH SELF DRILLING SMS	STEEL
4D	DOW 995 STRUCTURAL SILICONE	SILICONE
4E	NON STRUCTURAL BACKBEDDING SEALANT (READISEAL)	-
4F	GLAZING SPACER	ALUM



2/5 **VERTICAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
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PROFESSIONAL ENGINEER
11.29.12

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

PRODUCT: PLASTPRO INC.
FIBERGLASS DOOR

PART OR ASSEMBLY:
GLAZING DETAILS

NO.	DATE	BY	REVISIONS

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 5 OF 13

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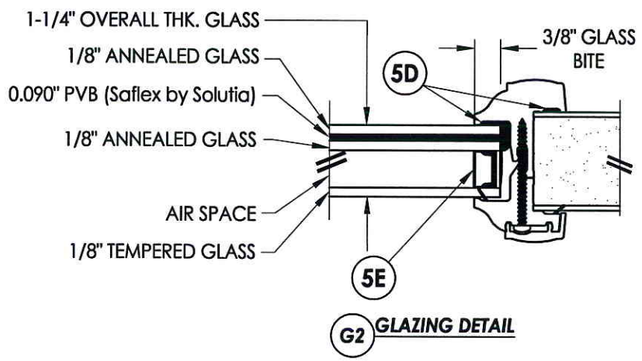
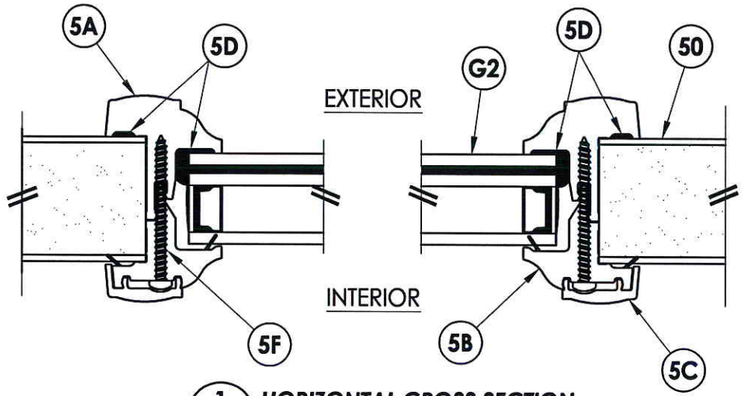
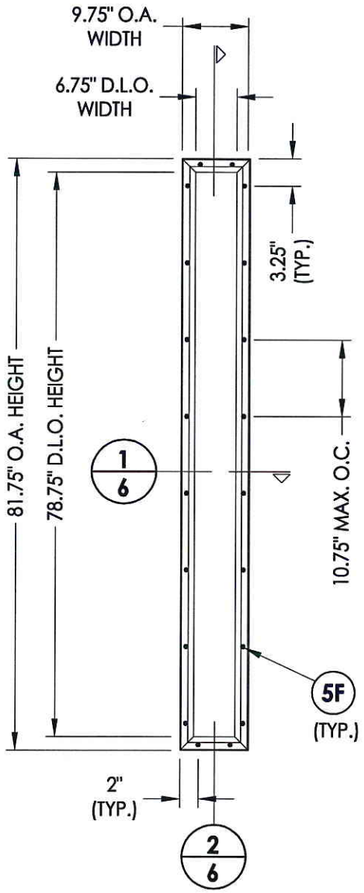


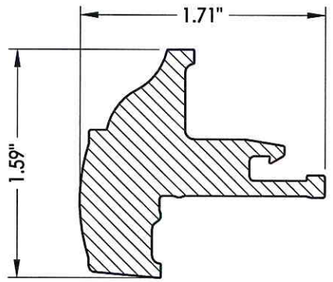
G2 **GLAZING DETAIL**



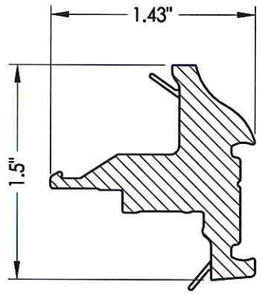
1/6 **HORIZONTAL CROSS SECTION**



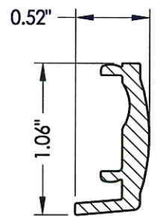
62 **RSL LITE FRAME**
Impact (PVC)



5A **EXTERIOR DOOR LITE FRAME**
(060407-5)



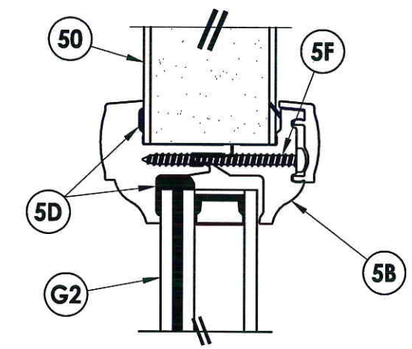
5B **INTERIOR DOOR LITE FRAME**
(060407-4)



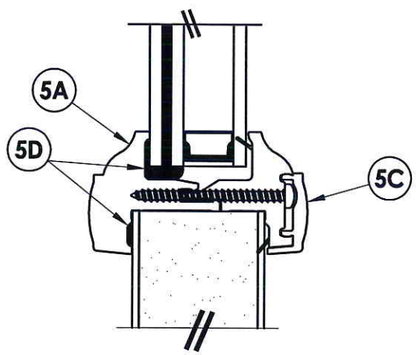
5C **SCREW COVER**
(060407-6)

BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
5A	EXTERIOR DOOR LIGHT FRAME (BY ROYAL MOULDINGS)	PVC
5B	INTERIOR DOOR LIGHT FRAME (BY ROYAL MOULDINGS)	PVC
5C	SCREW COVER (BY ROYAL MOULDINGS)	PVC
5D	DOW 995 STRUCTURAL SEALANT	SILICONE
5E	1/2" NON-GROOVE SWIGGLE W/ DELCHEM#80 POLYSULFIDE 1/8" BACKFILL	ALUM
5F	#10 X 1-3/4" PH SMS	STEEL



EXTERIOR INTERIOR



2/6 **VERTICAL CROSS SECTION**

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

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR
PART OR ASSEMBLY: GLAZING DETAILS

NO.	DATE	BY
	REVISIONS	

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 6 OF 13

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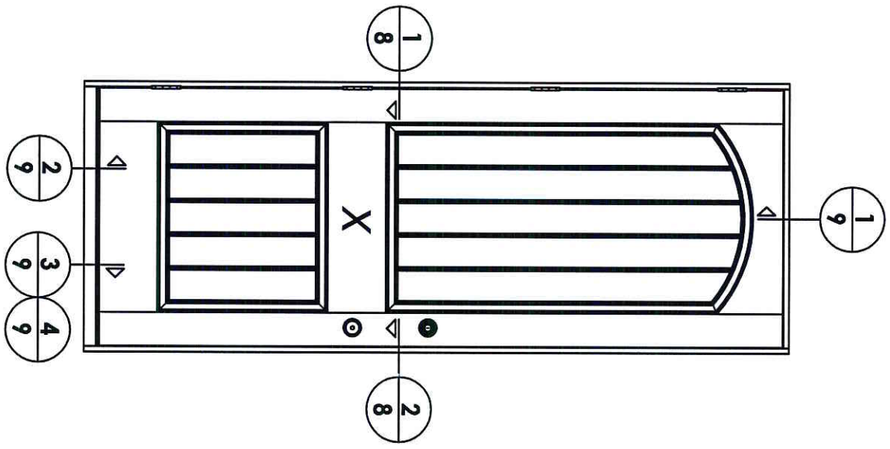

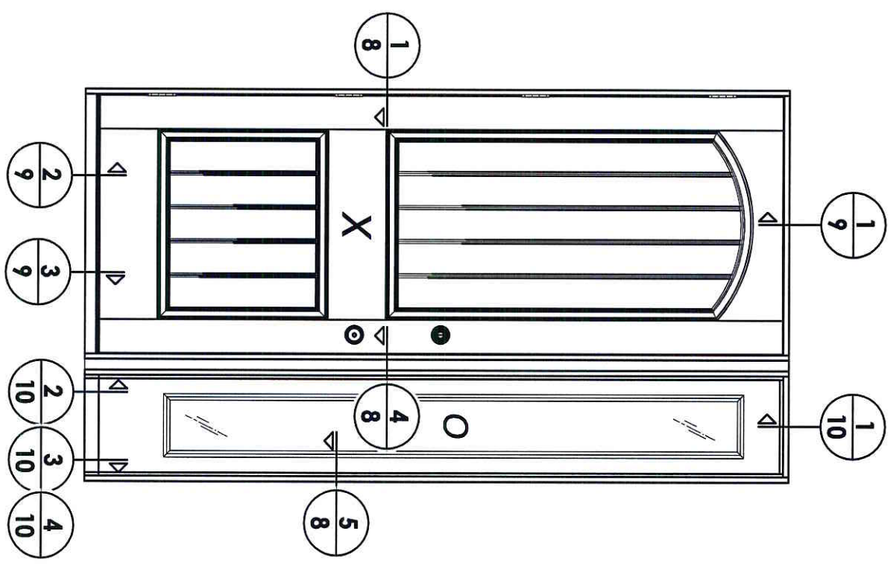

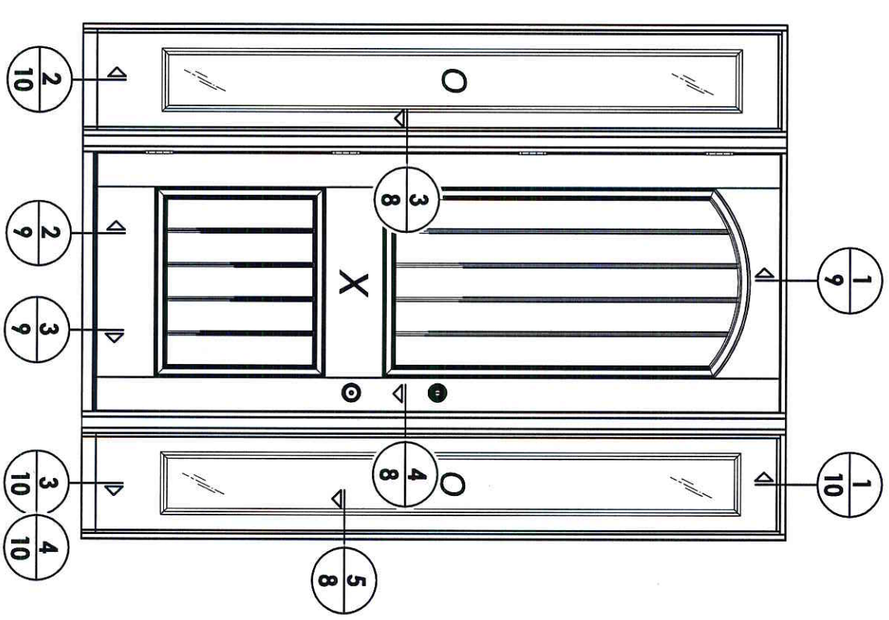

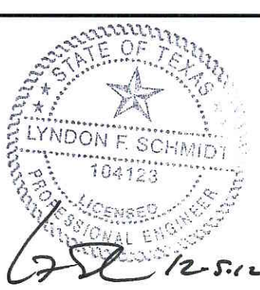

SHEET 7 OF 13	DRAWING NO.: TX-4283	CHK. BY: LFS	DWG. BY: JK
SCALE: N.T.S.	DATE: 11/29/12		

NO.	DATE	REVISIONS	BY

PRODUCT:

PLASTPRO INC.
FIBERGLASS DOOR

PART OR ASSEMBLY:

ELEVATIONS

Documents Prepared By: Lyndon F. Schmidt, P.E.
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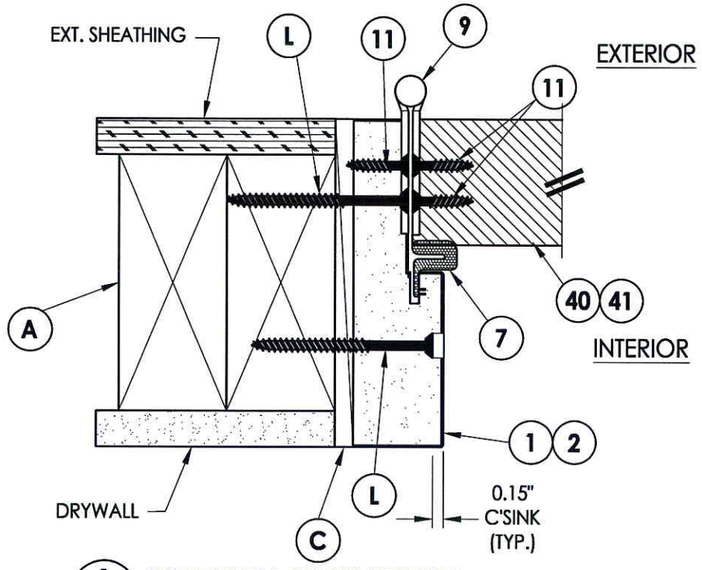
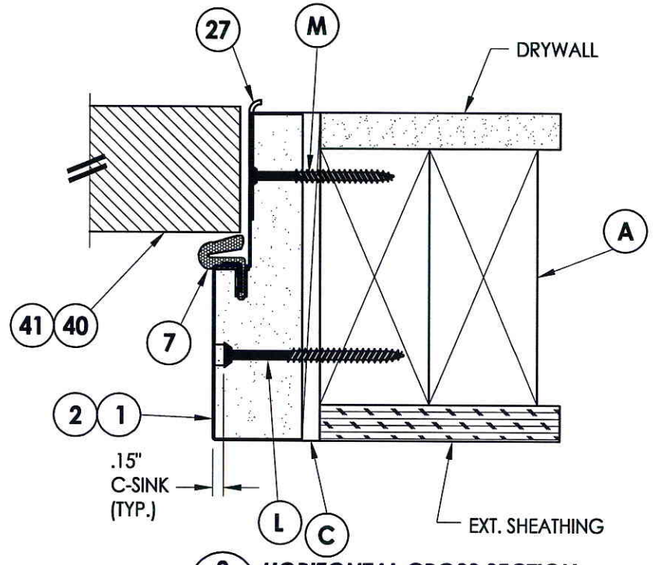
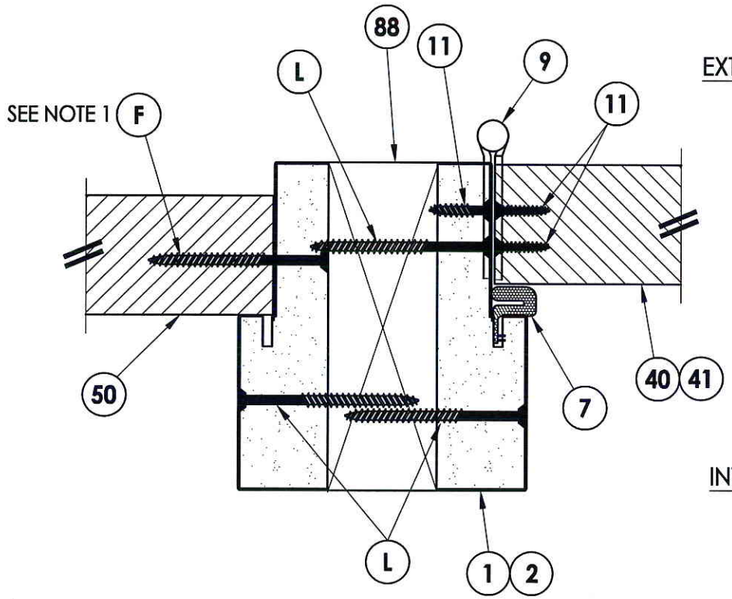


1/8 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved

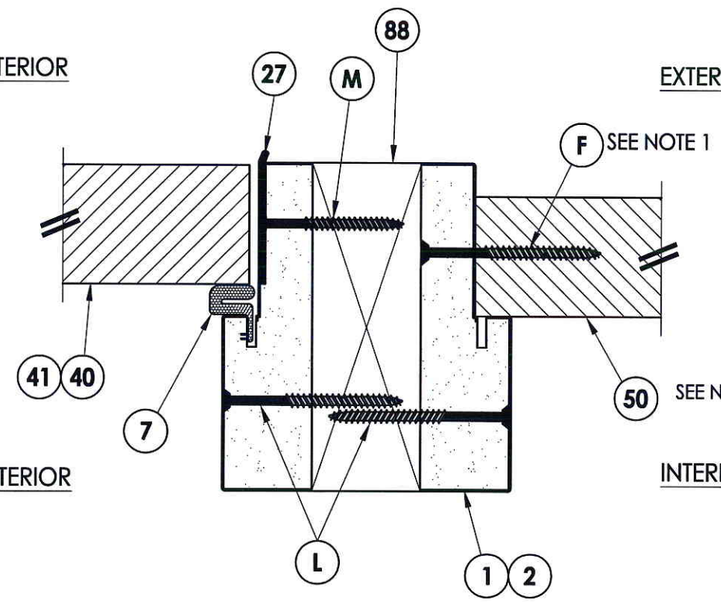


2/8 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved

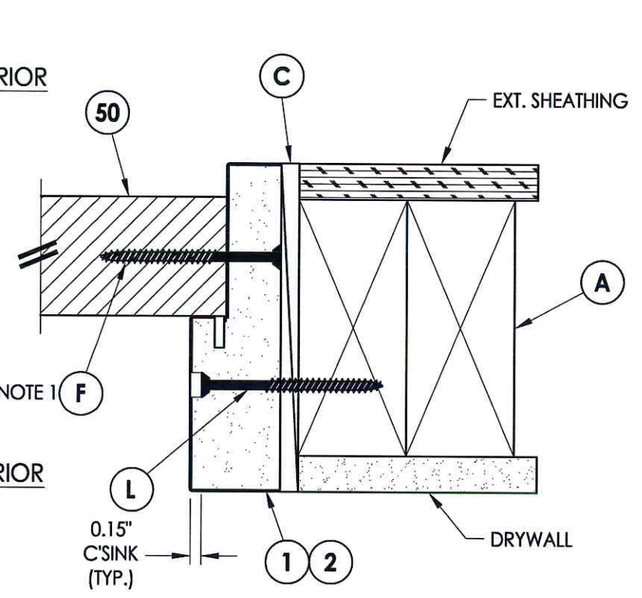
NOTE:
1. Spacing for item F: 6" from ends and 9 more equally spaced along sidelite (11 total).



3/8 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved



4/8 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved



5/8 **HORIZONTAL CROSS SECTION**
Outswing shown - Inswing also approved

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

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 8 OF 13

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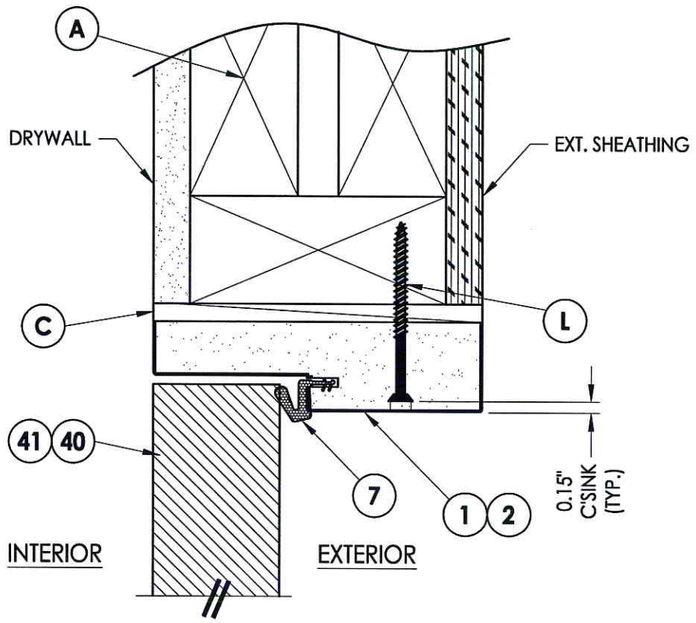
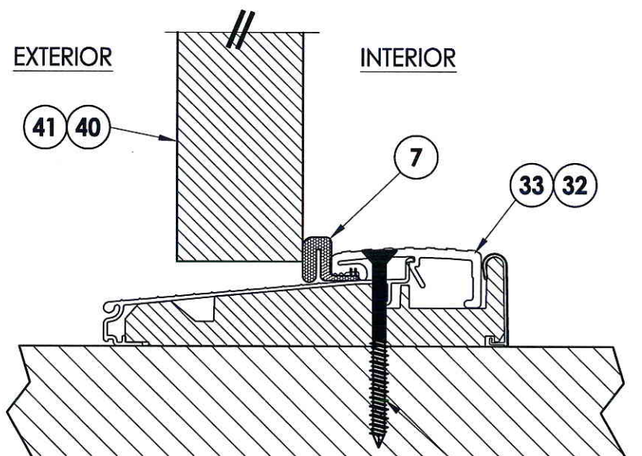
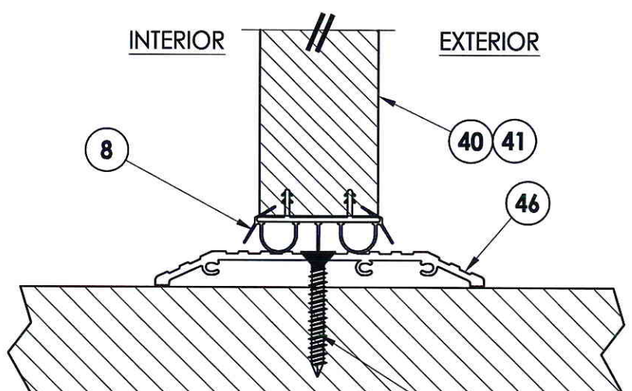


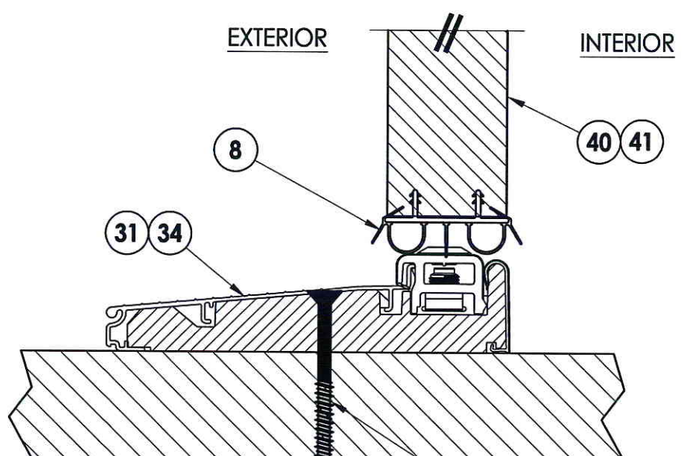
1/9 **VERTICAL CROSS SECTION**
Inswing shown - Outswing also approved



2/9 **VERTICAL CROSS SECTION**
Outswing configuration

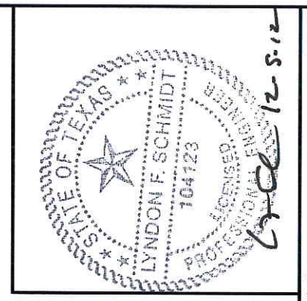


4/9 **VERTICAL CROSS SECTION**
Shown w/ ADA threshold



3/9 **VERTICAL CROSS SECTION**
Inswing configuration

NOTE:
1. Sill anchor not required for single (X) units.



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 INC. FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 9 OF 13

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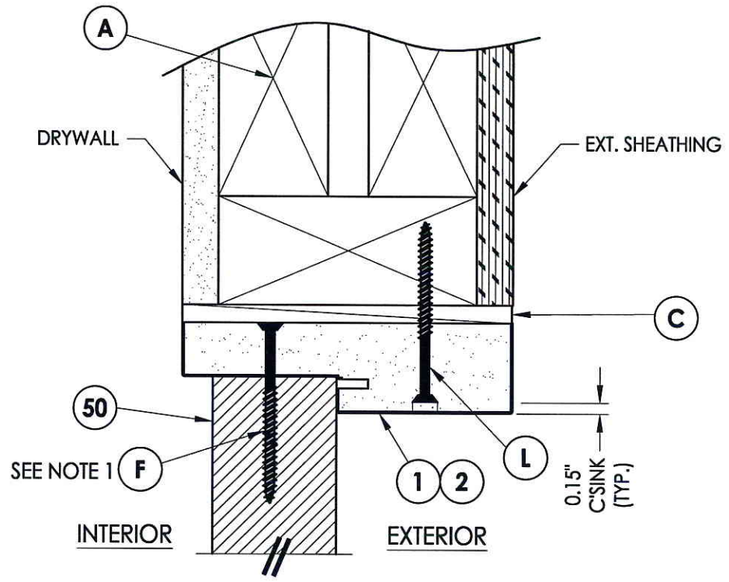
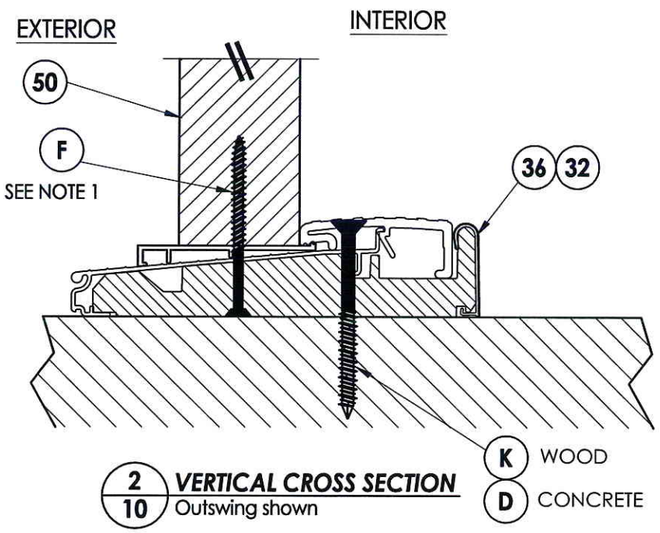
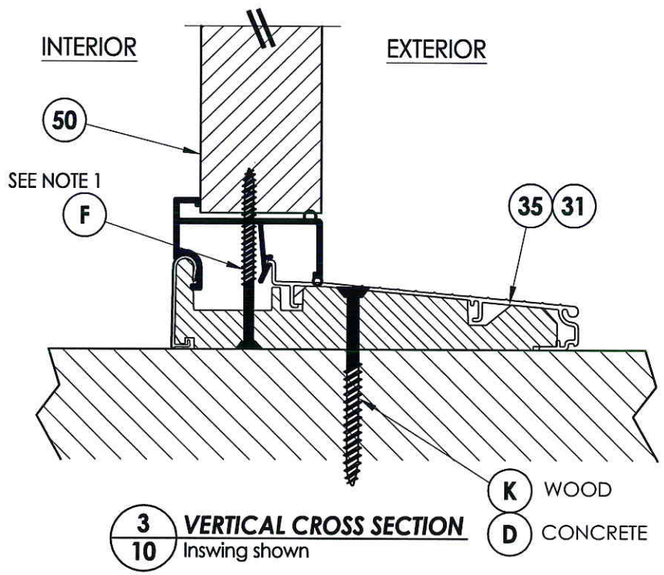
NOTE:
1. Spacing for item F: 3" from each end.



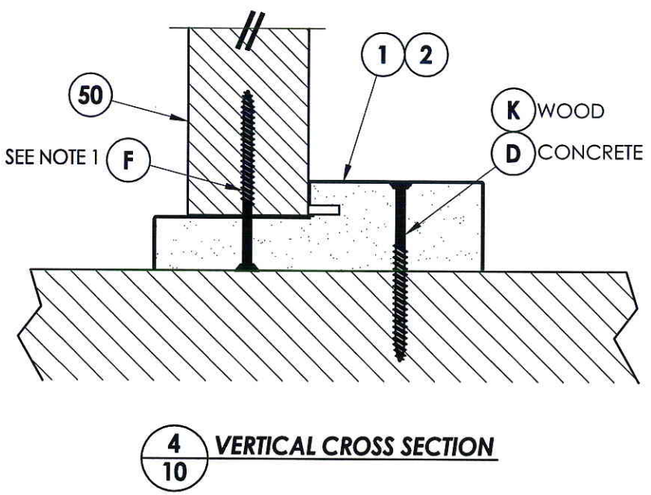
1/10 **VERTICAL CROSS SECTION**
Inswing shown - Outswing also approved



2/10 **VERTICAL CROSS SECTION**
Outswing shown



3/10 **VERTICAL CROSS SECTION**
Inswing shown



4/10 **VERTICAL CROSS SECTION**

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

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 INC. FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY
REVISIONS		

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 10 OF 13

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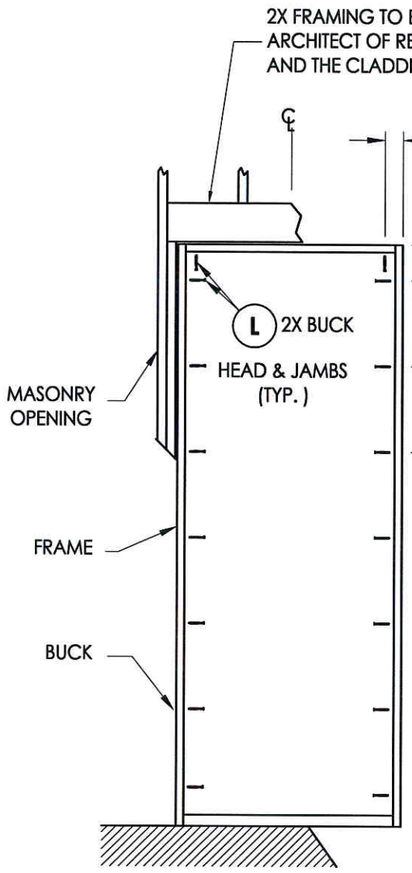
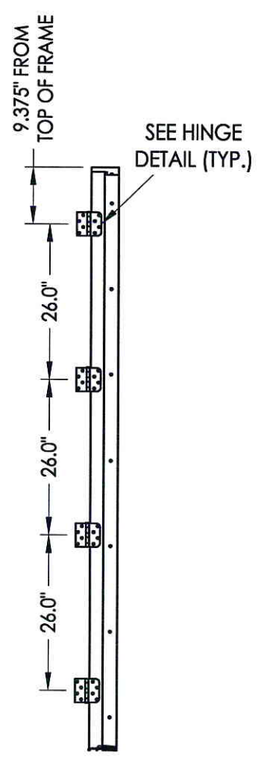
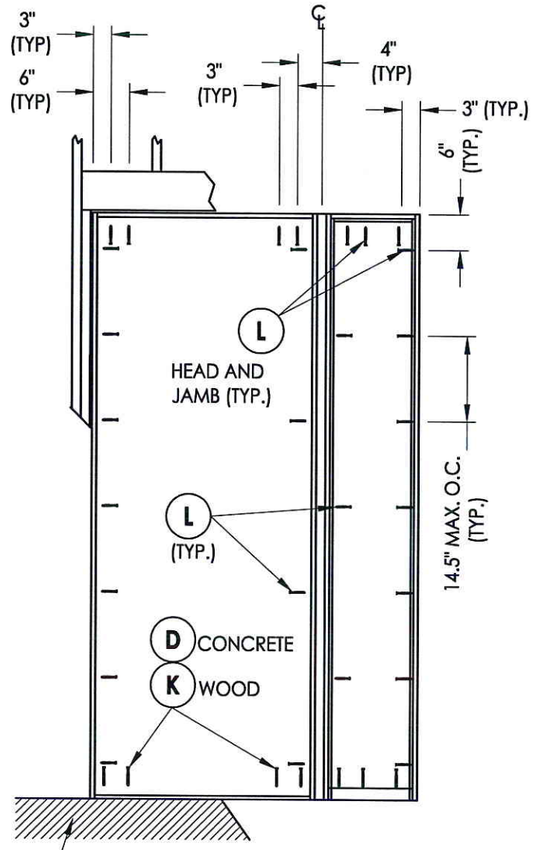


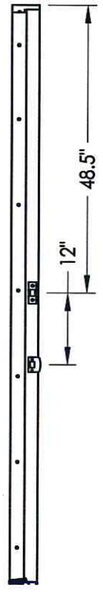
FRAME ANCHORING
(X)



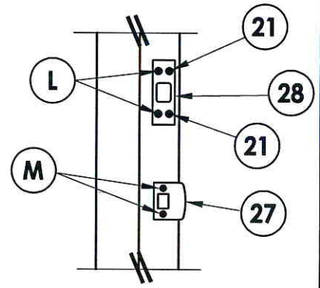
HINGE JAMB



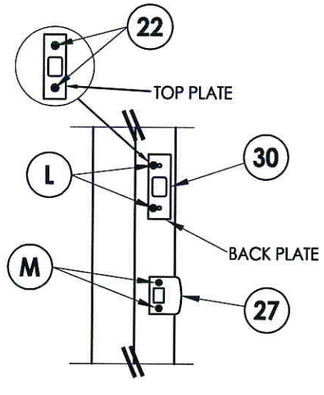
FRAME ANCHORING
OX



STRIKE JAMB



STRIKE DETAIL
Kwikset Signature Series
w/ 780 Deadbolt

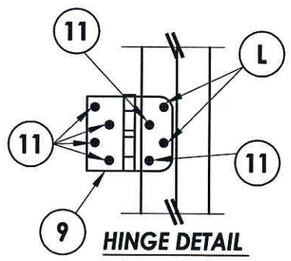


STRIKE DETAIL
Schlage F Series Latch &
B Series Deadbolt

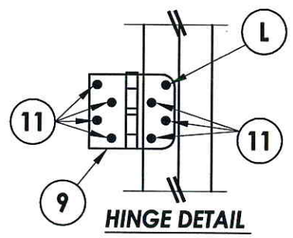
CONCRETE ANCHOR NOTES:

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"



HINGE DETAIL
Inswing



HINGE DETAIL
Outswing

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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: *FRAME ANCHORING*

NO.	DATE	REVISIONS	BY

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 11 OF 13

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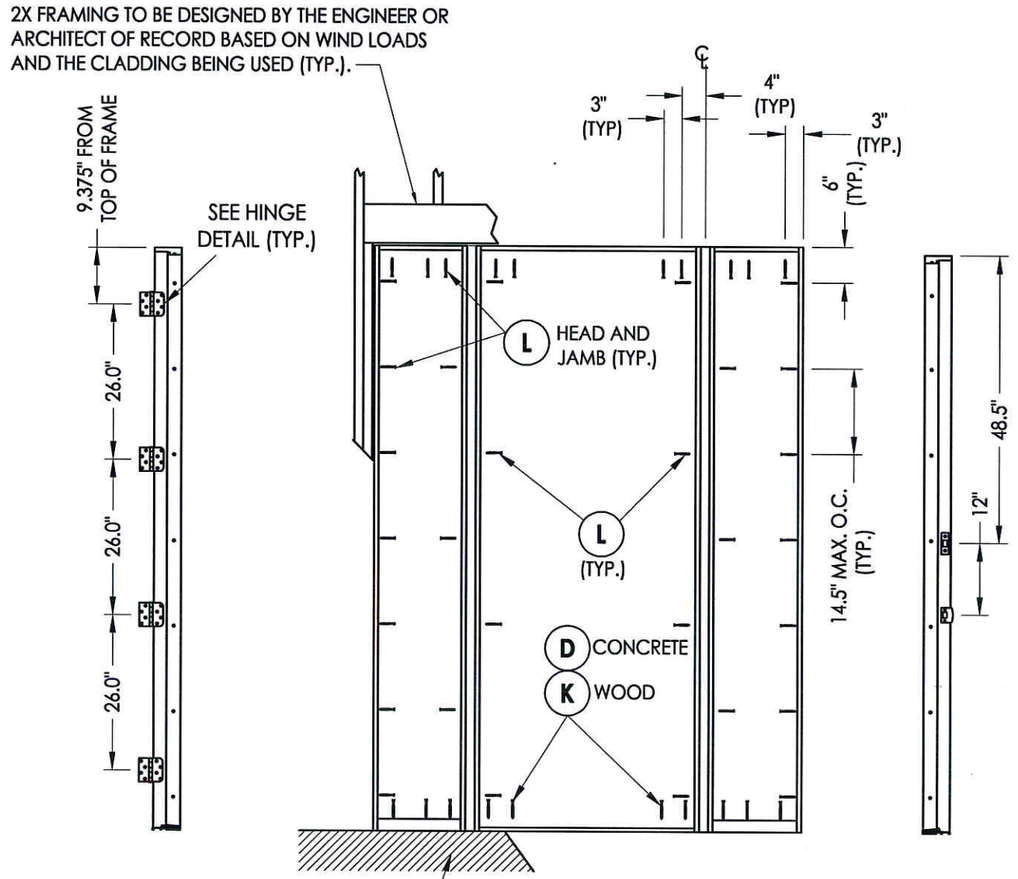

HINGE JAMB

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

FRAME ANCHORING
OXO

STRIKE JAMB

CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
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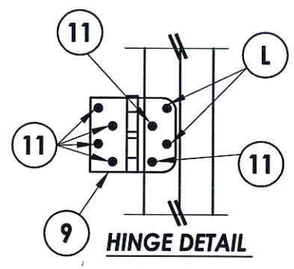
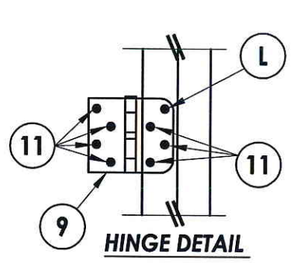
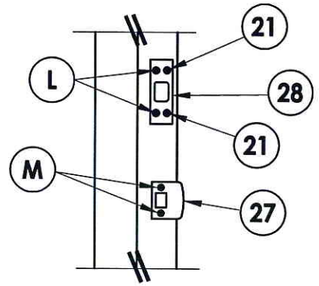


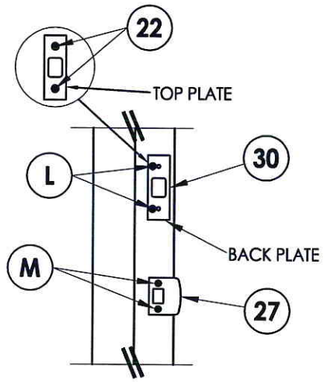
HINGE DETAIL
Inswing



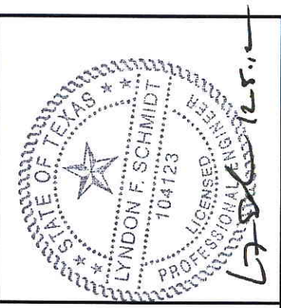
HINGE DETAIL
Outswing



STRIKE DETAIL
Kwikset Signature Series
w/ 780 Deadbolt



STRIKE DETAIL
Schlage F Series Latch &
B Series Deadbolt



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*

NO.	DATE	BY	REVISIONS

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 12 OF 13

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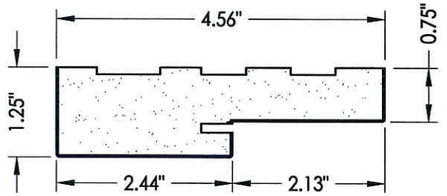
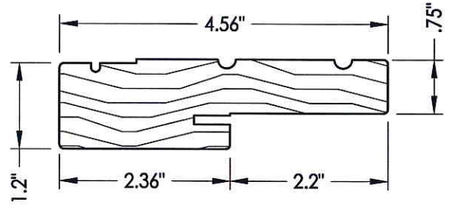
BILL OF MATERIALS

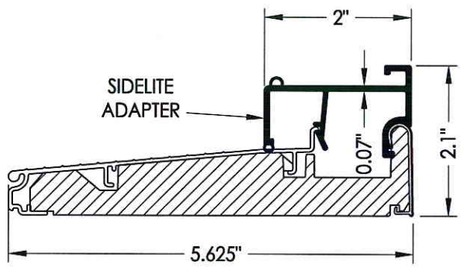
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
F	#9 X 2-1/2" PFH WOOD SCREW	STEEL
K	#10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	#8 X 2" PFH WOOD SCREW	STEEL
1	POLY FIBER JAMB	POLY FIBER
2	FINGER JOINTED PINE JAMB	WOOD
7	WEATHERSTRIP	FOAM
8	DOOR BOTTOM SWEEP	VINYL
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
21	#8 X 5/8" PFH WOOD SCREW	STEEL
22	10-32 X 3/8" PFH MACHINE SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE (Kwikset Signature Series)	STEEL
30	DEADBOLT STRIKE PLATE (Schlage B Series)	STEEL
31	INSWING ADJUSTABLE THRESHOLD	ALUM / WOOD
32	OUTSWING THRESHOLD	ALUM / WOOD
33	OUTSWING THRESHOLD	ALUM / COMP
34	INSWING ADJUSTABLE THRESHOLD	ALUM / COMP
35	INSWING ADJUSTABLE THRESHOLD w/ SIDELITE ADAPTER	ALUM / COMP
36	OUTSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM / COMP
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
41	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
46	ADA THRESHOLD	ALUM
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
61	ODL LITE FRAME	ALUM
62	RSL LITE FRAME	PVC
88	2X REINFORCEMENT (G >= 0.55)	WOOD



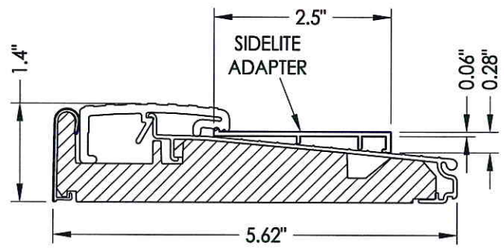
1 **HEAD & SIDE**
Poly fiber jamb



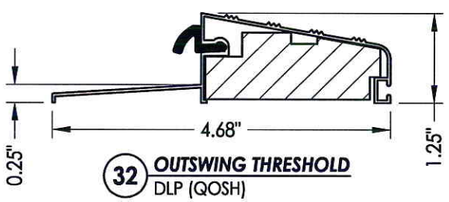
2 **WOOD JAMB**



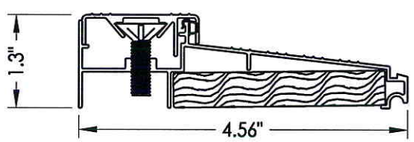
35 **INSWING THRESHOLD w/ SIDELITE ADAPTER**
Endura (Z-Series)



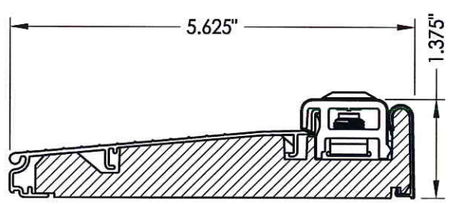
36 **OUTSWING THRESHOLD w/ SIDELITE ADAPTER**
Endura (Z-Series)



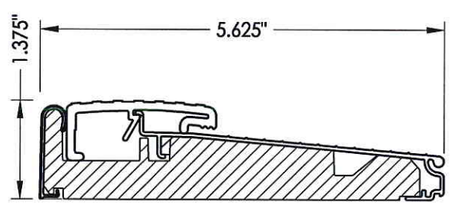
32 **OUTSWING THRESHOLD**
DLP (QOSH)



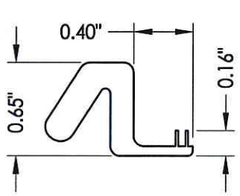
31 **INSWING THRESHOLD**
DLP (ISCS)



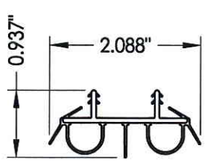
34 **ADJUSTABLE INSWING THRESHOLD**
Endura (Z-Series)



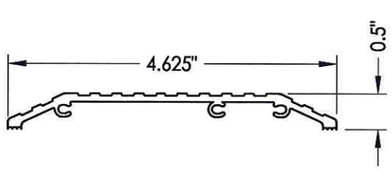
33 **OUTSWING THRESHOLD**
Endura (Z-Series)



7 **WEATHERSTRIP**
Endura Force 5



8 **DOOR BOTTOM SWEEP**



46 **ADA THRESHOLD**
DLP

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

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 INC. FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS AND COMPONENTS

NO.	DATE	BY

REVISIONS

DATE: 11/29/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4283
SHEET 13 OF 13

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