plastpro

5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

20 MIN. FIRE RATED FIBERGLASS DOOR

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 excludes 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. Note: Fire rating is not part of this approval and it is the responsibility of the Design Professional to verify adequacy of this product to meet IBC/IRC requirements for fire ratings.
5. Conditions not covered by this drawing are subject to further engineering analysis.

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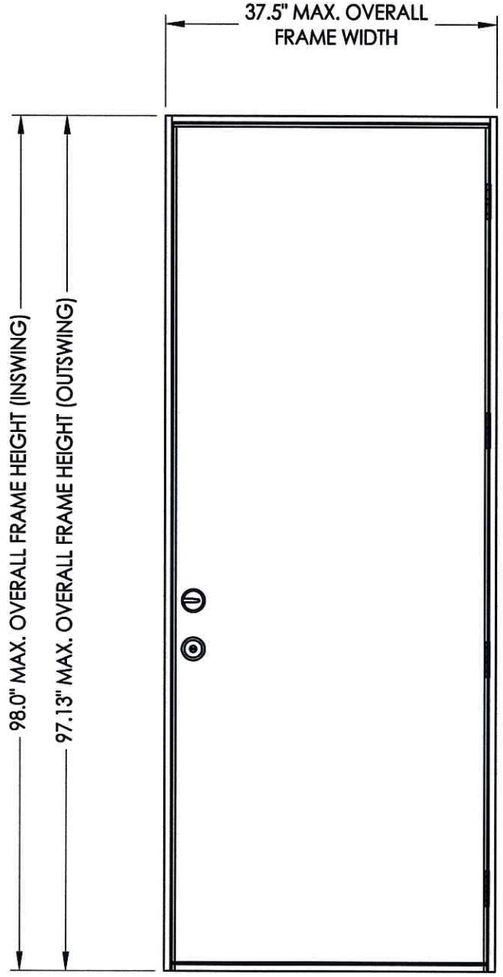
SHEET #	**DESCRIPTION**
1	Typical elevation, design pressures, & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring
6	Bill of materials & components



SWING	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
INSWING	37.5" x 98.0"	+65.0	-65.0
OUTSWING	37.5" x 97.13"	+65.0	-65.0

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
5.9.12

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RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR

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

NO.	DATE	BY	REVISIONS

DATE: 5/09/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4149
SHEET 1 OF 6

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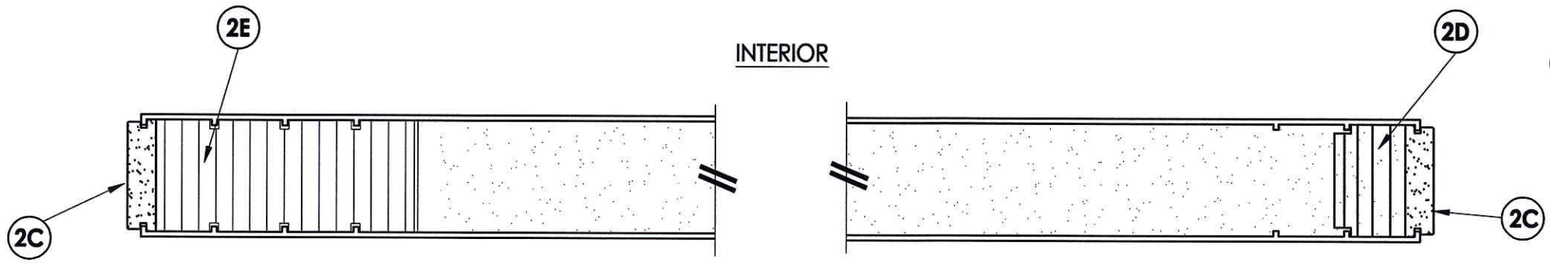
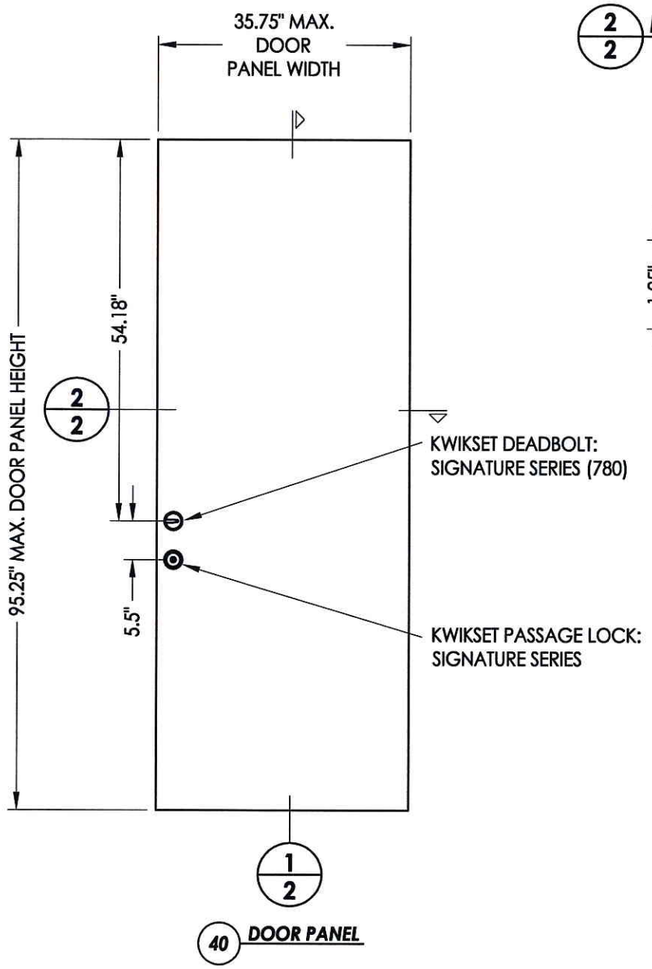
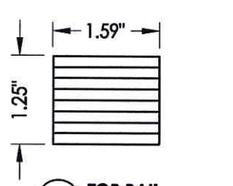


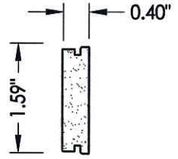
2/2 HORIZONTAL CROSS SECTION



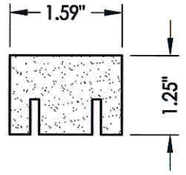
40 DOOR PANEL



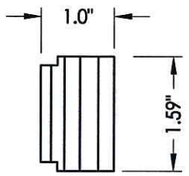
2A TOP RAIL
Engineered Wood



2C LATCH & HINGE STILE CAP
PVC Composite



2B BOTTOM RAIL
PVC Composite



2D HINGE STILE
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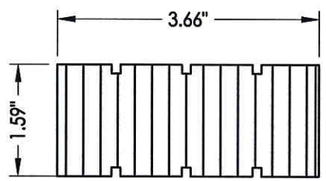
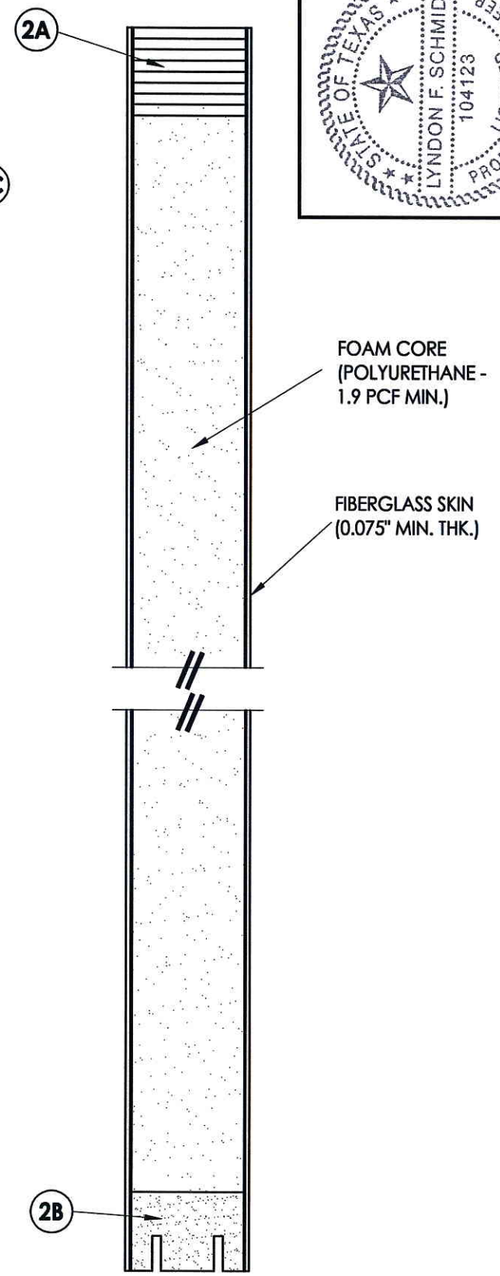


2E LATCH STILE
Engineered Wood



1/2 VERTICAL CROSS SECTION

5-9-12

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RW BUILDING CONSULTANTS, INC.
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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	REVISIONS	BY

DATE: 5/09/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4149
SHEET 2 OF 6

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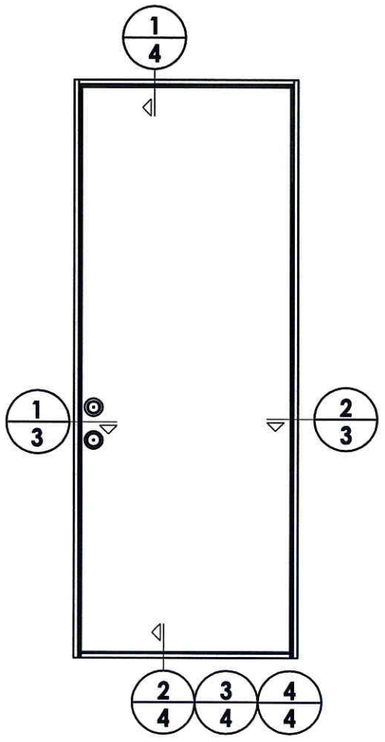
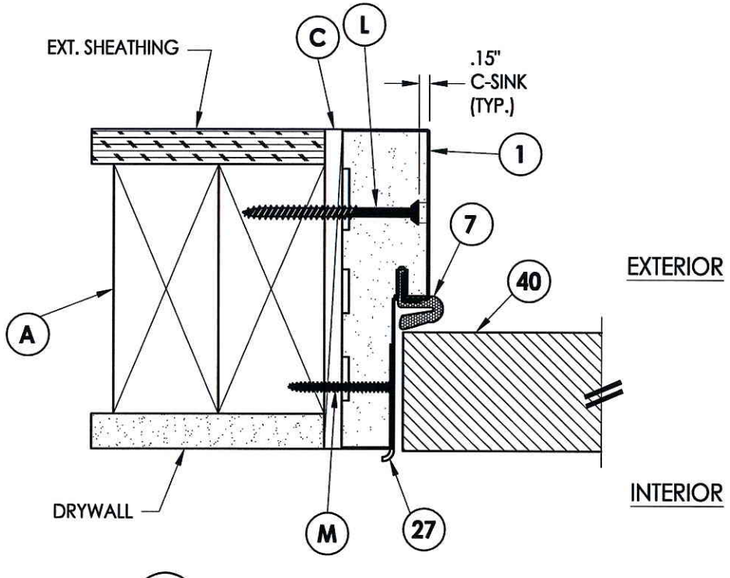
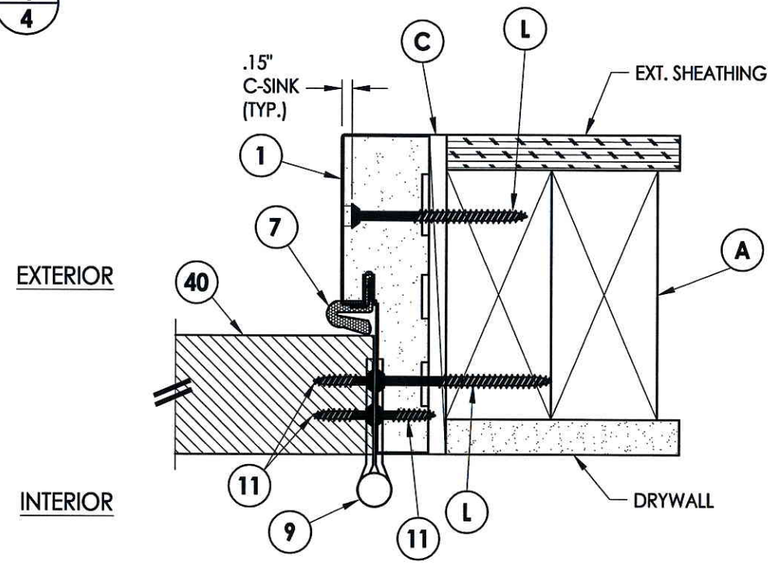




1/3 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



2/3 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved

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PRODUCT: *PLASTPRO INC. FIBERGLASS DOOR*

PART OR ASSEMBLY: *HORIZONTAL CROSS SECTIONS*

NO.	DATE	REVISIONS	BY

DATE: 5/09/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4149
SHEET 3 OF 6

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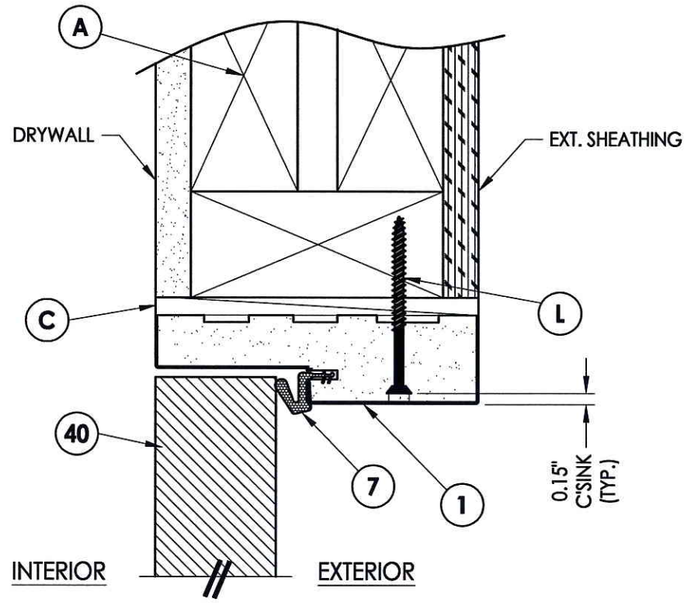
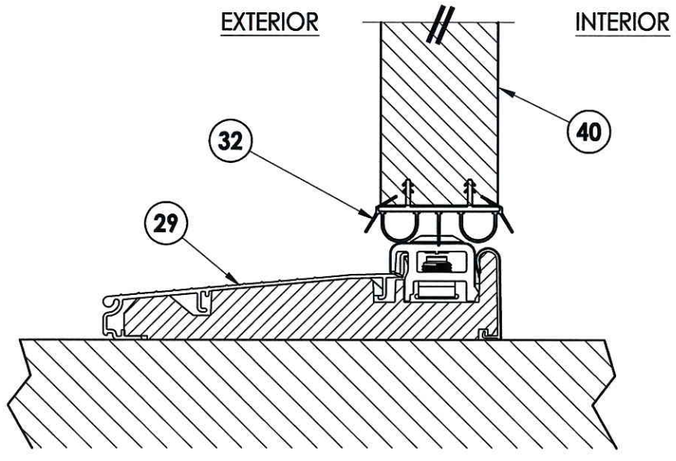
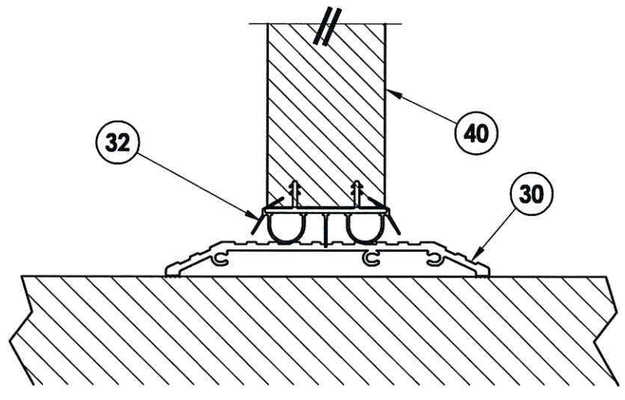


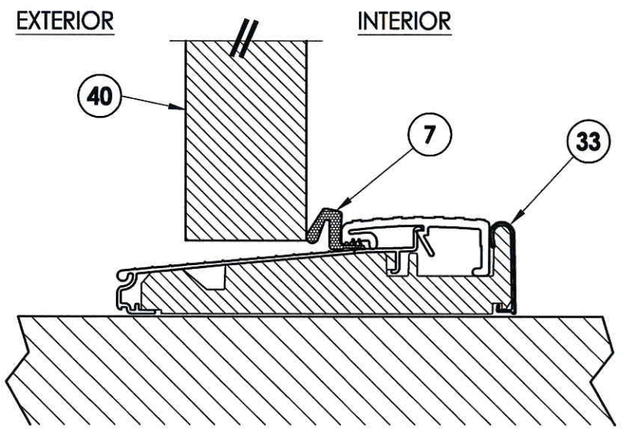
1/4 VERTICAL CROSS SECTION
Inswing shown - Outswing also approved



2/4 VERTICAL CROSS SECTION
Inswing configuration



3/4 VERTICAL CROSS SECTION
Shown w/ ADA threshold



4/4 VERTICAL CROSS SECTION
Outswing configuration

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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: 5/09/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4149
SHEET 4 OF 6

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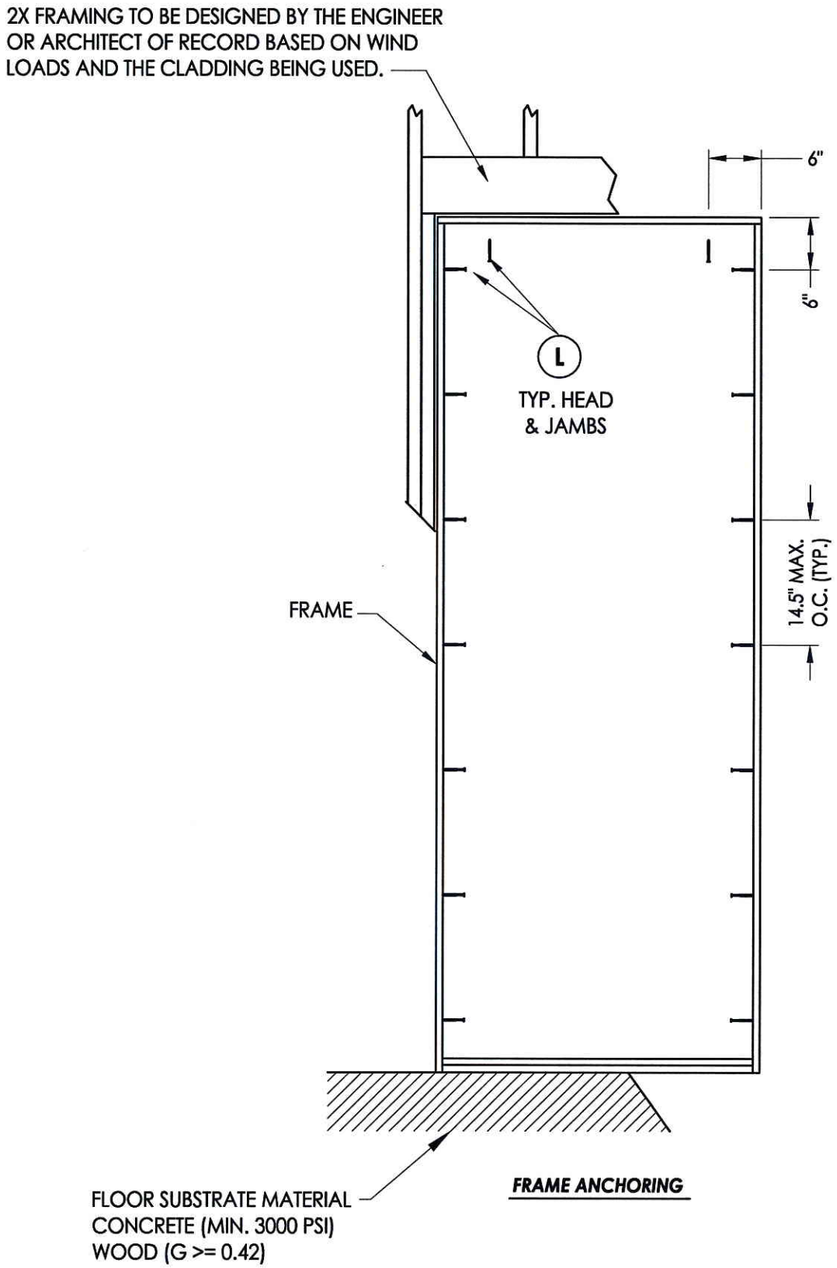
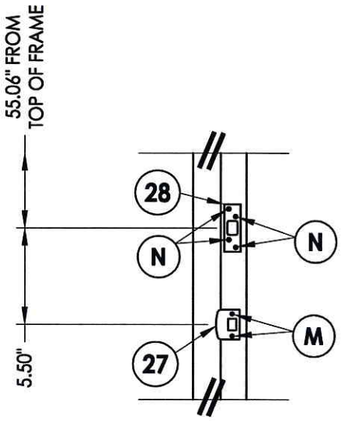
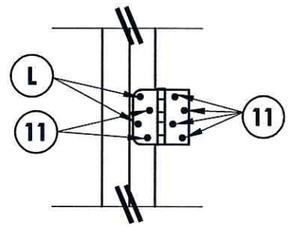


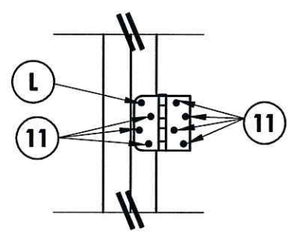
FRAME ANCHORING



LATCH & DEADBOLT DETAIL



9 ***HINGE DETAIL - 1***
Hinge (2) located @ 6-7/16" and 32-9/16" from top of door slab to top of hinge



9 ***HINGE DETAIL - 2***
Hinge (2) located @ 58-5/8" and 84-13/16" from top of door slab to top of hinge

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

PRODUCT: *PLASTPRO INC. FIBERGLASS DOOR*

PART OR ASSEMBLY: *BUCK AND FRAME ANCHORING*

NO.	DATE	REVISIONS	BY

DATE: 5/09/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4149
SHEET 5 OF 6

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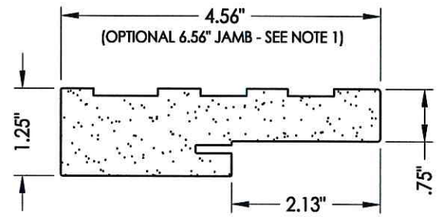
BILL OF MATERIALS

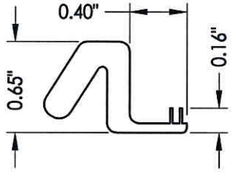
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL
M	#8 X 1-1/2" PFH WOOD SCREW	STEEL
N	#8 X 3" PFH WOOD SCREW	STEEL
1	POLY FIBER JAMB	POLY FIBER
7	WEATHERSTRIP	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
29	ADJUSTABLE INSWING THRESHOLD	ALUM / COMP
30	ADA THRESHOLD	ALUM
32	DOOR BOTTOM SWEEP	VINYL
33	OUTSWING THRESHOLD	ALUM / COMP
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-



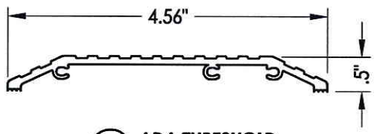
1 **HEAD & SIDE JAMB**
Poly Fiber

NOTE:

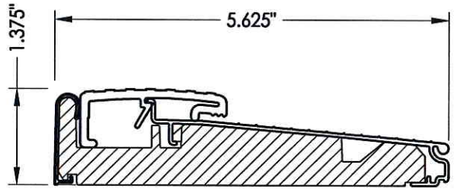
1. 6-9/16" jamb (PF or wood) may be substituted for a 4-9/16" jamb as needed.



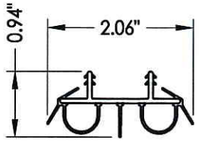
7 **WEATHERSTRIP**
Endura Force 5



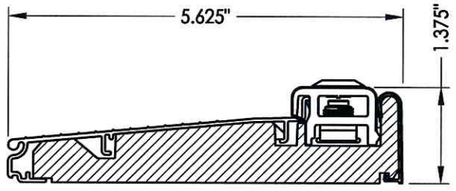
30 **ADA THRESHOLD**
DLP



33 **OUTSWING THRESHOLD**
Endura



32 **DOOR BOTTOM SWEEP**



29 **ADJUSTABLE INSWING THRESHOLD**
Endura

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

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 5/09/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4149
SHEET 6 OF 6

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