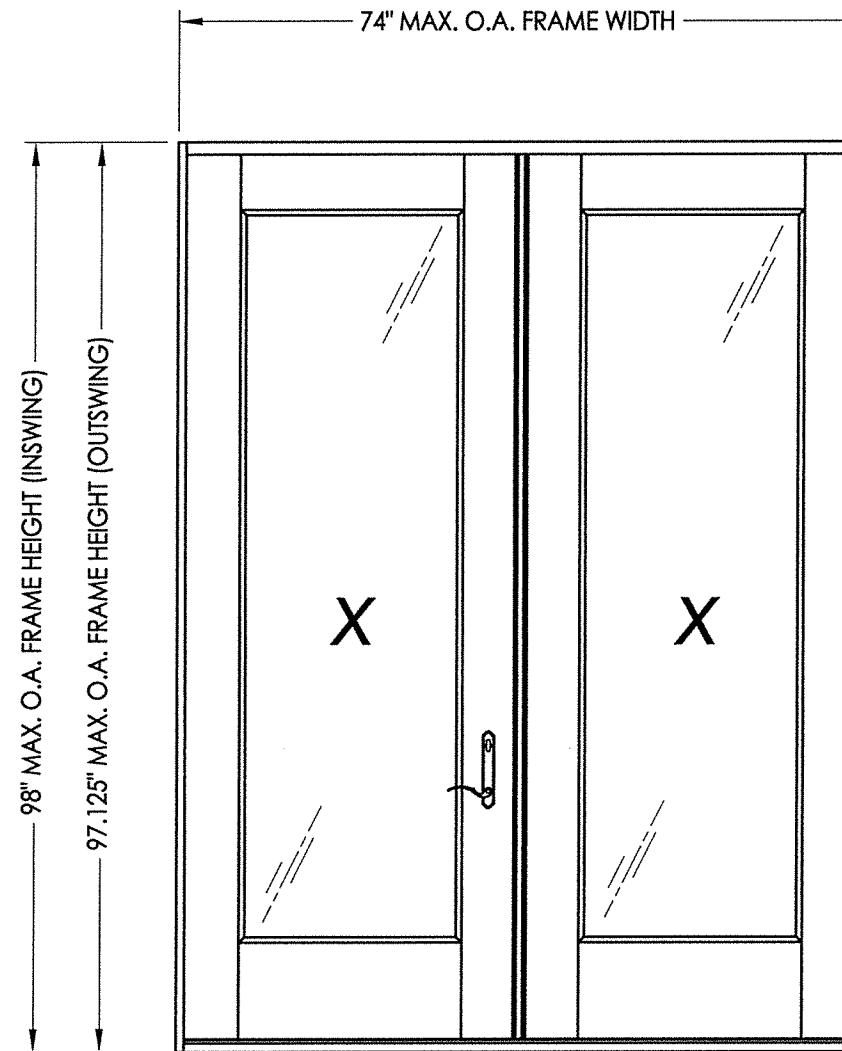


Glazed Fiberglass Door

"NON-IMPACT"
IN SWING / OUT SWING



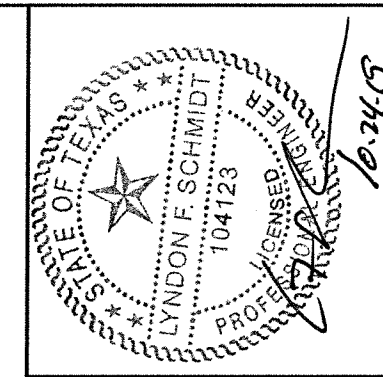
EVALUATED FOR USE IN THE STATE OF TEXAS

The Glazed 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. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.2 of the IBC.
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	Astragal details (Ultimate Trilennium)
3	Door panel details (lip lite insert glazing)
4	Door panel details (flush glazing)
5	Horizontal cross sections
6	Vertical cross sections
7	Frame anchoring

CONFIG.	GLAZING	MODEL	DESIGN PRESSURE (PSF) ULTIMATE TRILENNIUM ASTRAGAL	
			POSITIVE	NEGATIVE
XX	LIP LITE INSERT	IN SWING	+40.0	-45.0
XX	LIP LITE INSERT	OUT SWING	+35.0	-40.0
XX	FLUSH GLAZED	IN SWING	+40.0	-40.0
XX	FLUSH GLAZED	OUT SWING	+45.0	-45.0



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: ENDURA

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

NO.	DATE	REVISIONS
3	10/23/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	10/20/16	ADDED THRESHOLDS
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE

DATE: 1/16/14

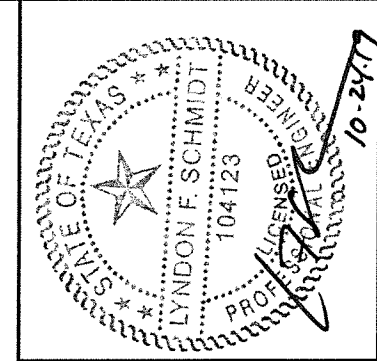
SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4433

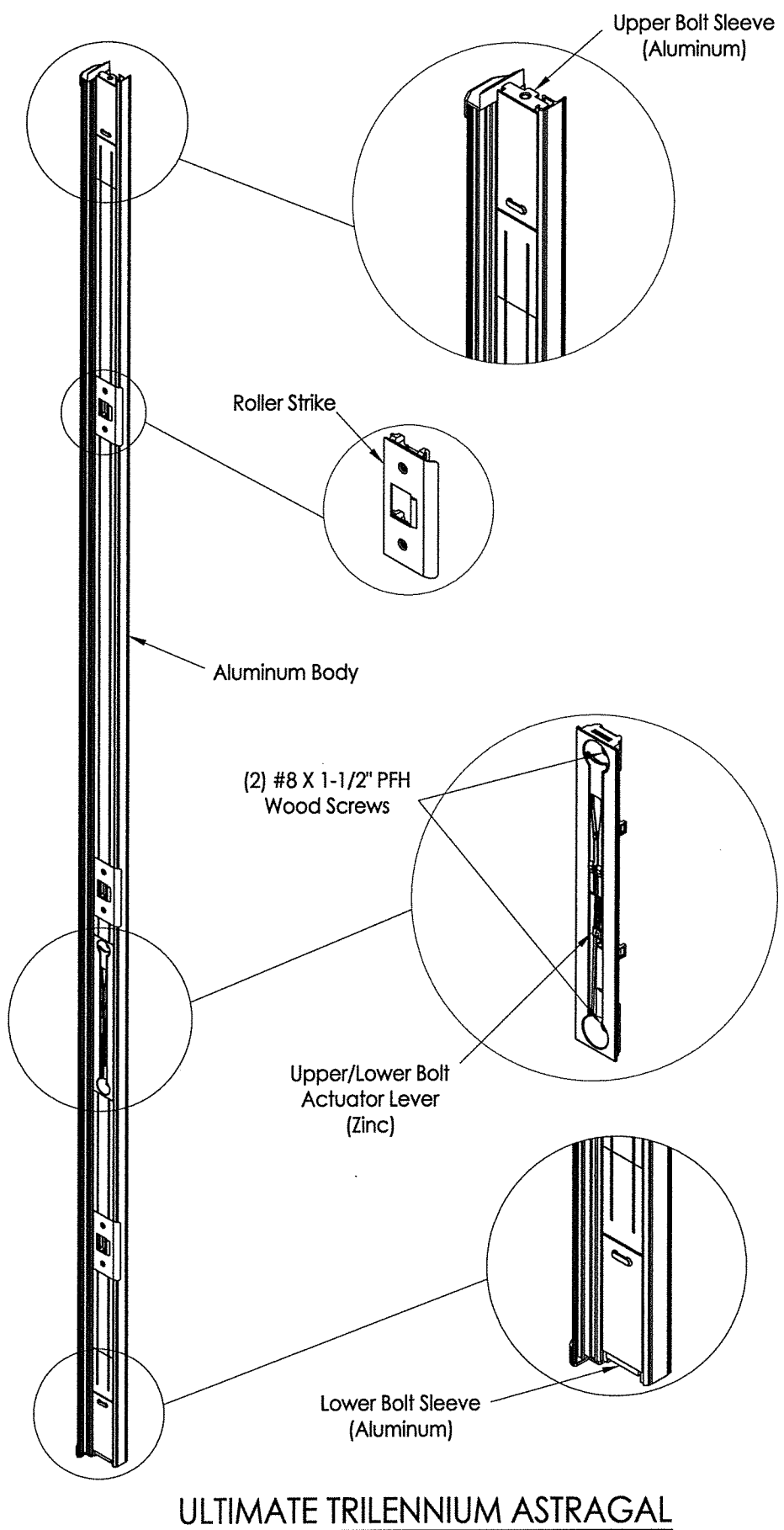
SHEET 1 OF 7



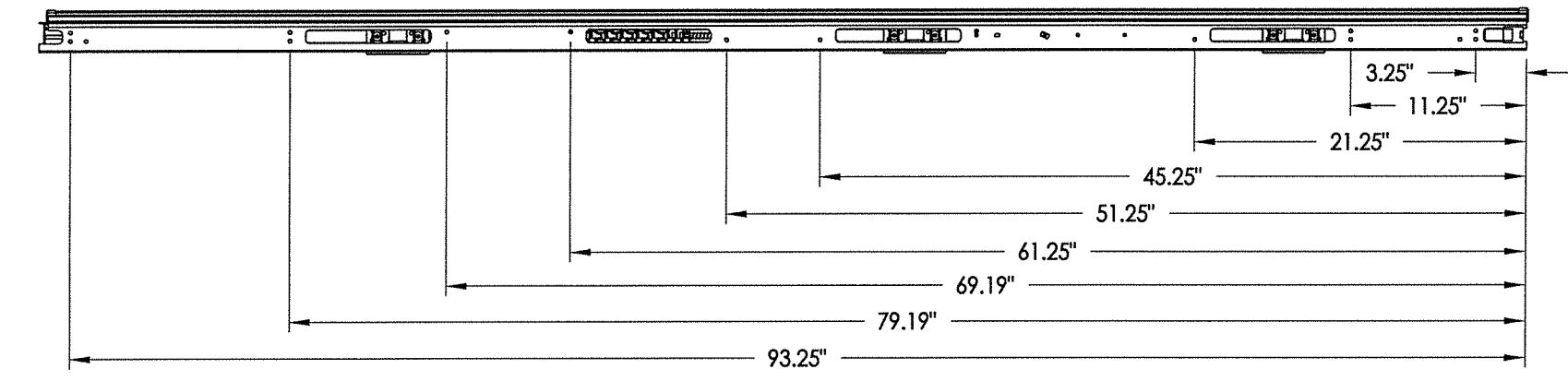
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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Phone No.: 813.689.9197

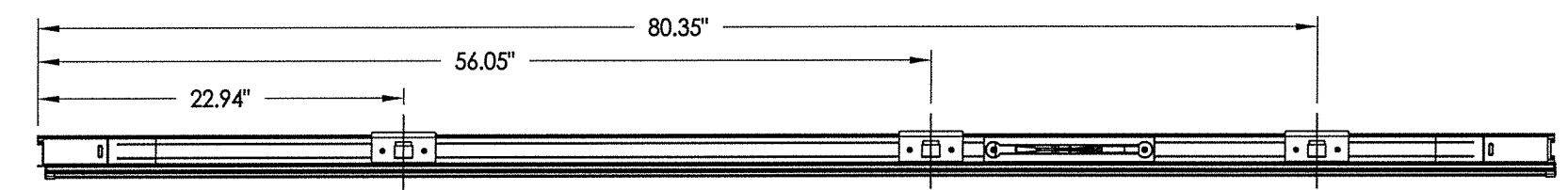
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



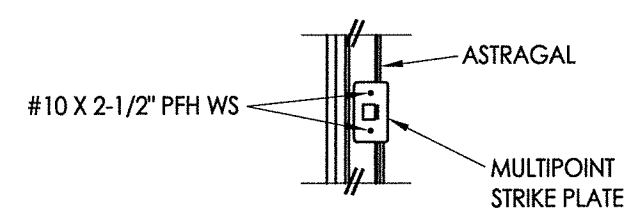
ULTIMATE TRIENNium ASTRAGAL



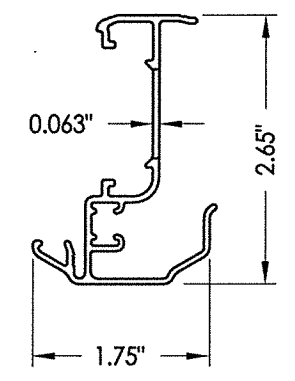
ANCHOR SCREW LOCATIONS



HARDWARE LOCATIONS



STRIKE PLATE DETAIL



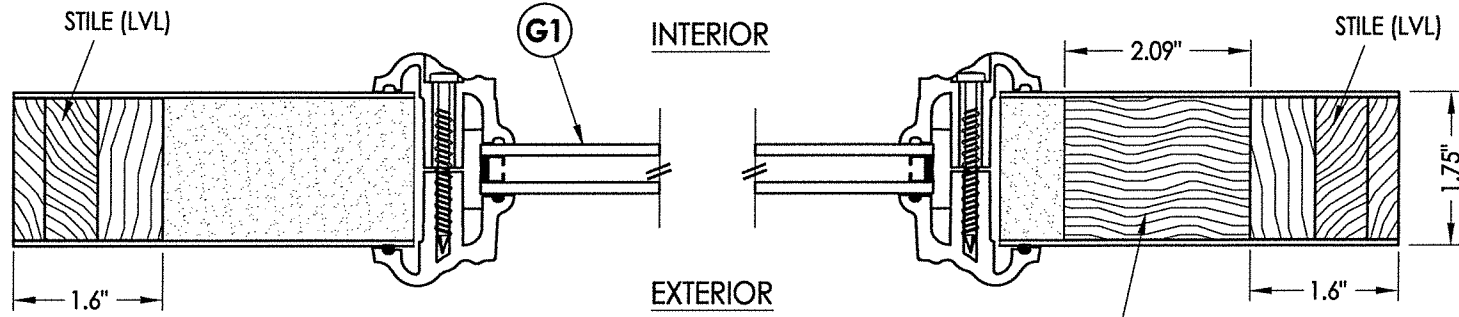
Astragal Section

TOP

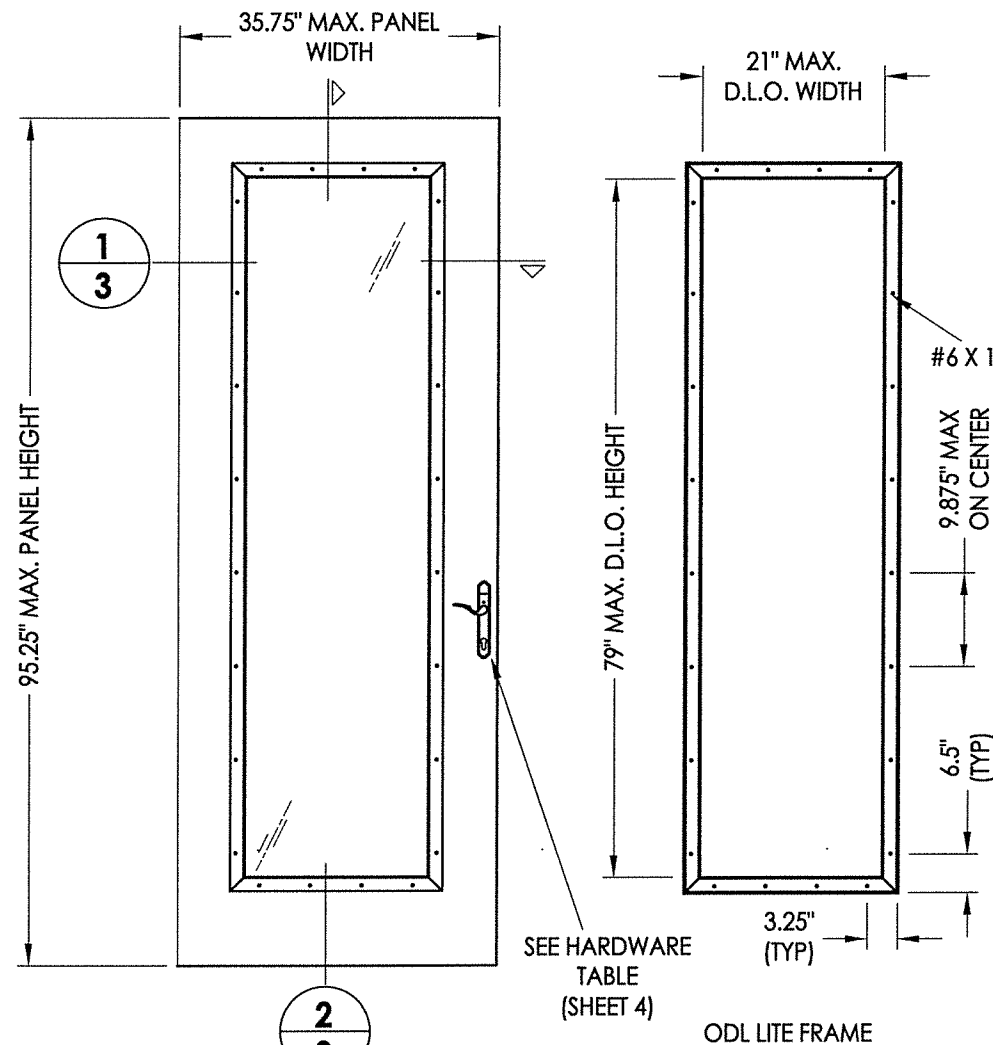
BOTTOM

PRODUCT:	ENDURA	
PART OR ASSEMBLY:	ASTRAGAL DETAILS (ULTIMATE TRIENNium)	
NO.	DATE	BY
3	10/23/19	LFS
2	10/20/16	LFS
1	5/07/15	LFS
REVISIONS		
DATE:	1/16/14	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4433	
SHEET	2 OF 7	

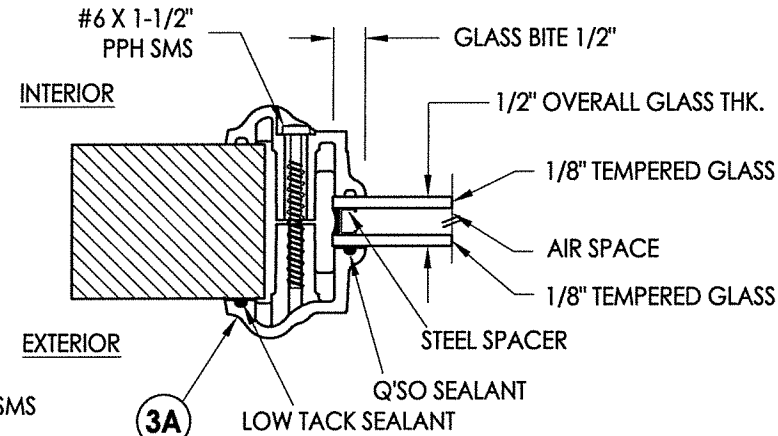
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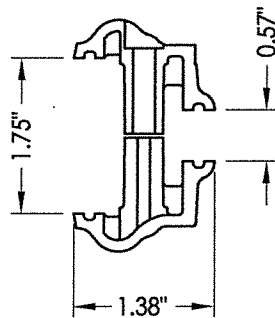
1
3 **HORIZONTAL CROSS SECTION**



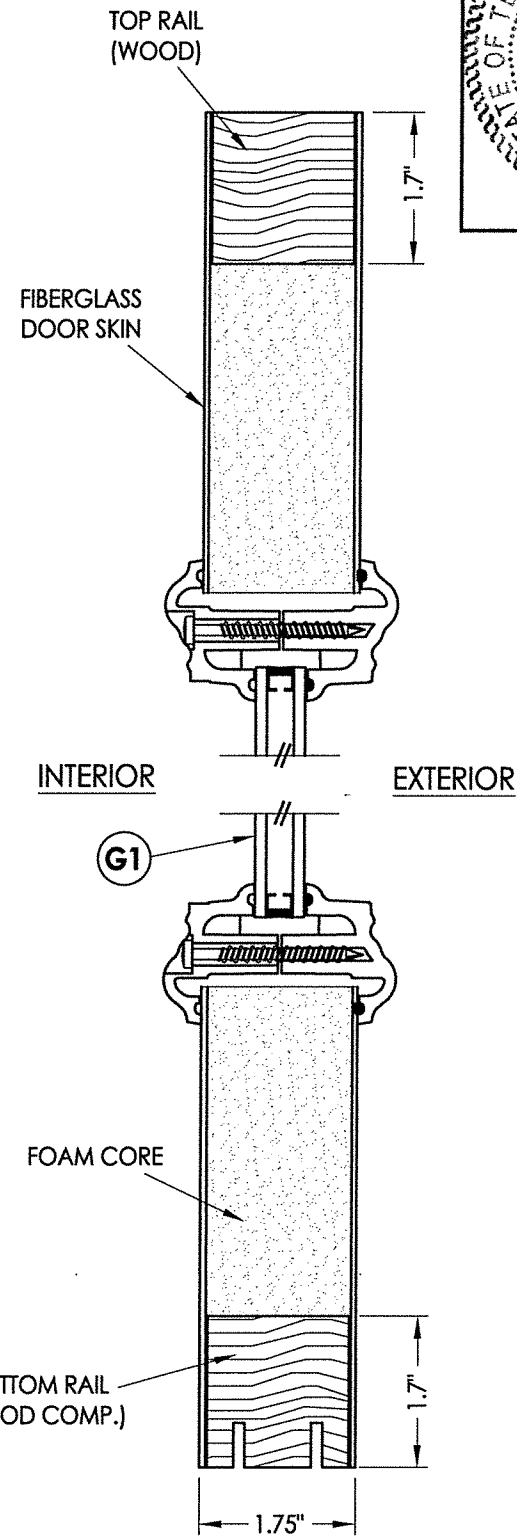
2
3 **DOOR PANEL**
Masonite
Fiberglass



G1 **GLAZING DETAIL**

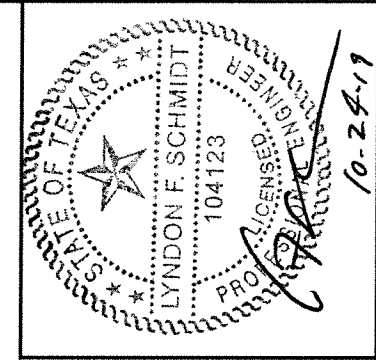


3A **ODL LITE FRAME**
HP Polypropylene



2
3 **VERTICAL CROSS SECTION**

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



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
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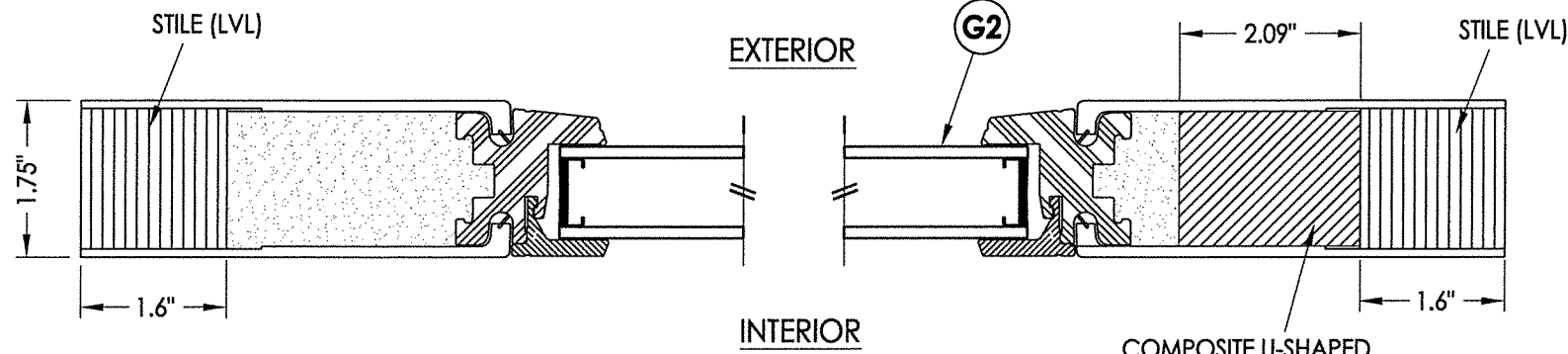
PRODUCT:	ENDURA
PART OR ASSEMBLY:	DOOR PANEL DETAILS (LIP LITE INSERT GLAZING)

NO.	DATE	BY	REVISIONS
3	10/23/19	LFS	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	10/20/16	LFS	ADDED THRESHOLDS
1	5/07/15	LFS	ADD NEW ASTRAGAL PIN CAPTURE

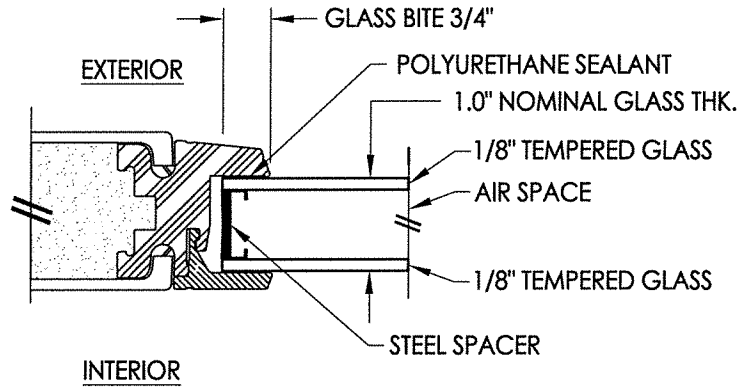
DATE:	1/16/14
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4433
SHEET	3 OF 7

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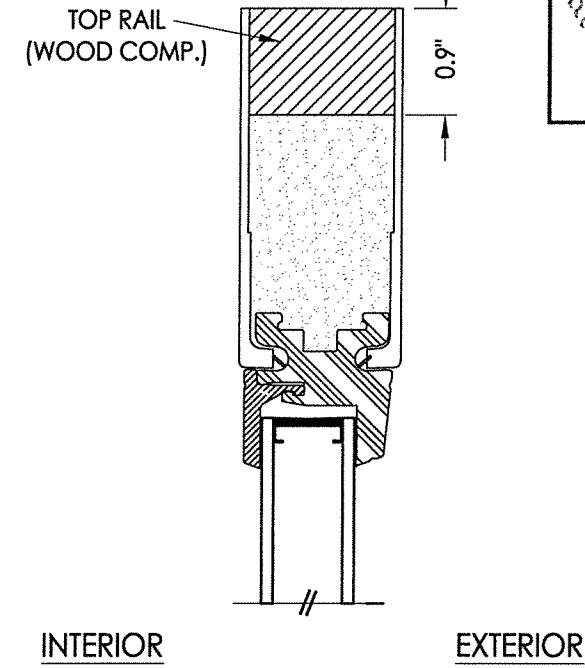
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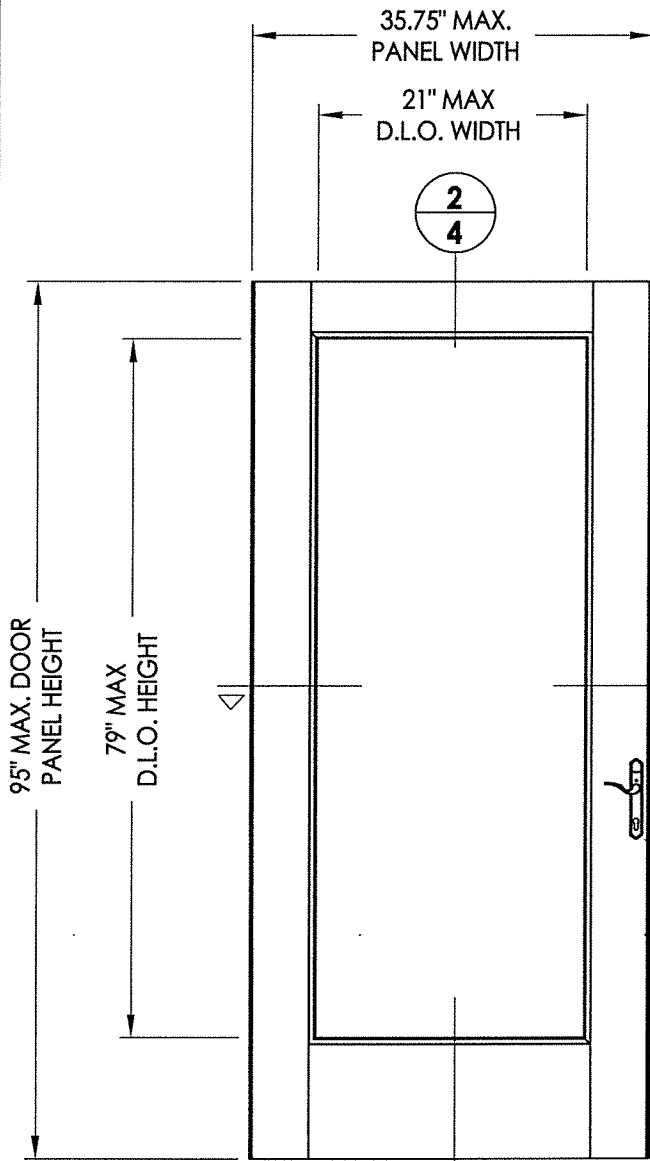
1
4 HORIZONTAL CROSS SECTION



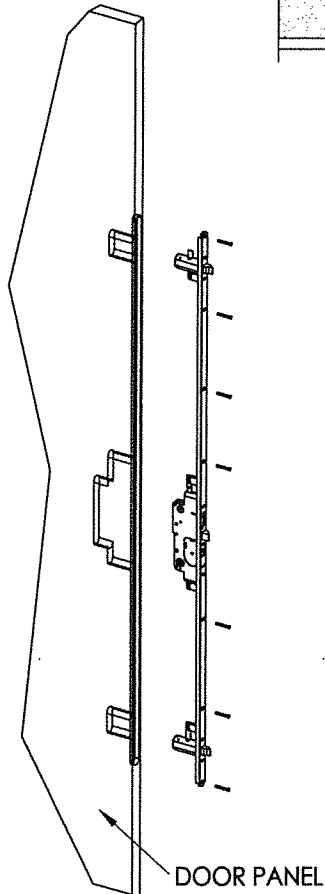
G2 GLAZING DETAIL
Flush Glazing



2
4 VERTICAL CROSS SECTION



SEE HARDWARE TABLE

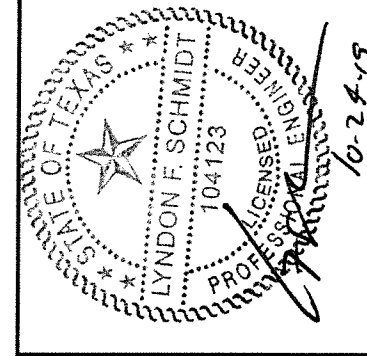


DOOR PANEL

MASONITE
Flush glazed
(fiberglass)

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

HARDWARE TABLE	
MANUFACTURER	MODEL
Endura	Trilennium® 3000 Series Multipoint lock (3pt.)



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

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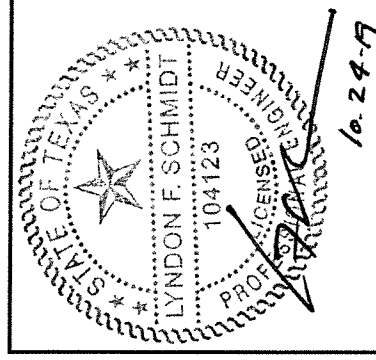
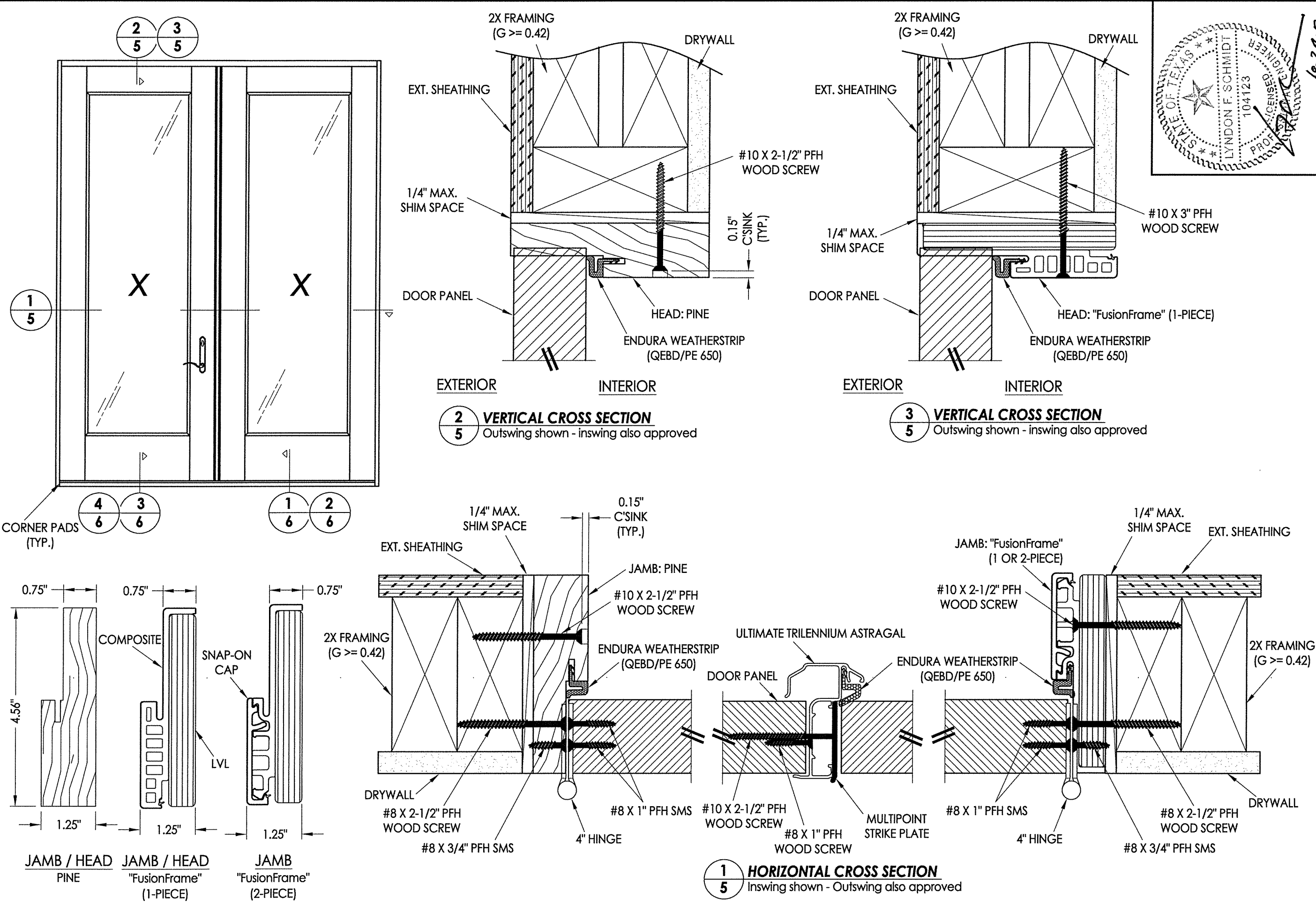
PRODUCT:	ENDURA
PART OR ASSEMBLY:	DOOR PANEL DETAILS (FLUSH GLAZING)

NO.	DATE	REVISIONS	BY
3	10/23/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE	LFS
2	10/20/16	ADDED THRESHOLDS	LFS
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE	LFS

DATE:	1/16/14
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4433
SHEET	4 OF 7

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TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
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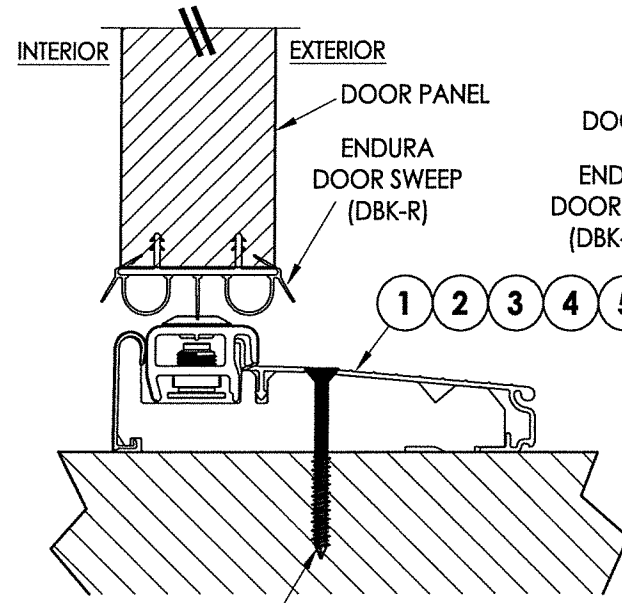
PRODUCT:	ENDURA
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
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2	10/20/16	ADDED THRESHOLDS	LFS
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE	LFS

DATE:	1/16/14
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4433
SHEET	5 OF 7

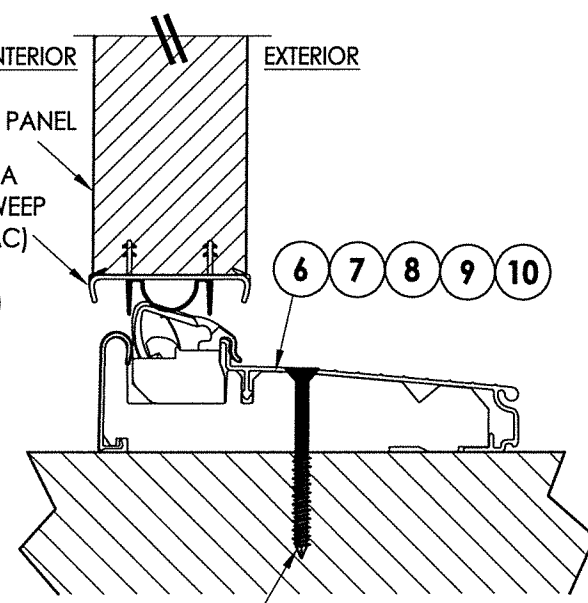
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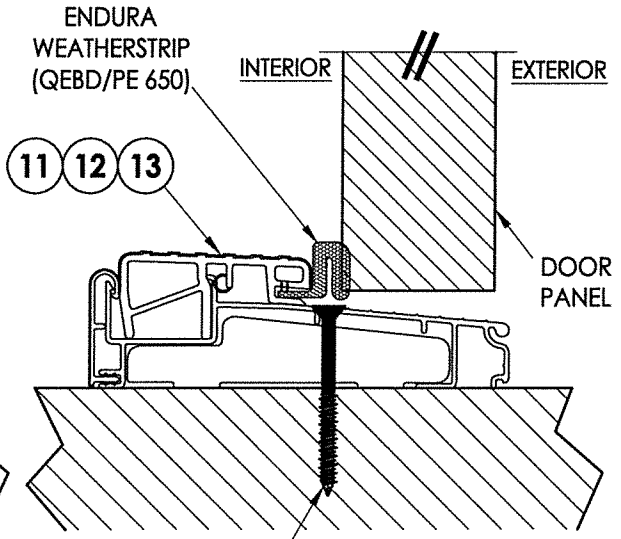
#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

1 VERTICAL CROSS SECTION
6 Inswing Adjustable Threshold



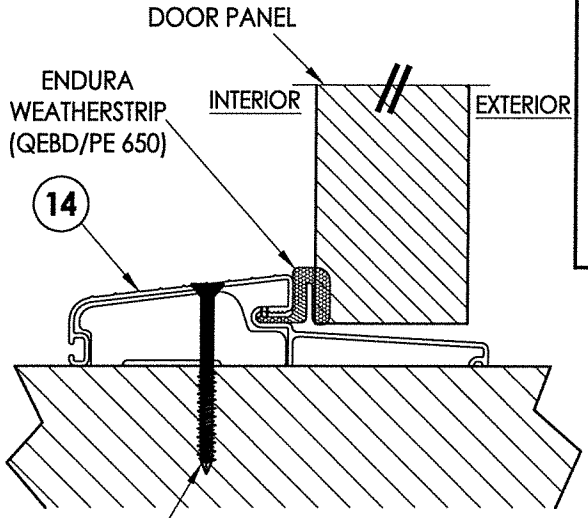
#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

2 VERTICAL CROSS SECTION
6 Inswing Articulating Threshold w/ Pin Capture



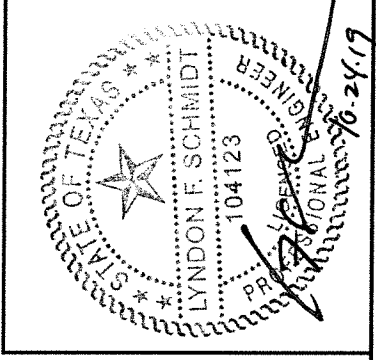
#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

3 VERTICAL CROSS SECTION
6 Inswing Adjustable Threshold



#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

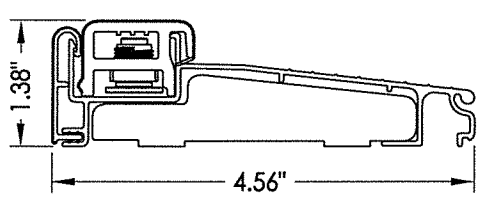
4 VERTICAL CROSS SECTION
6 Inswing Articulating Threshold



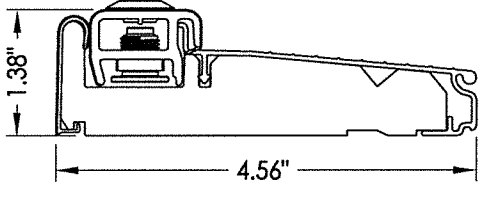
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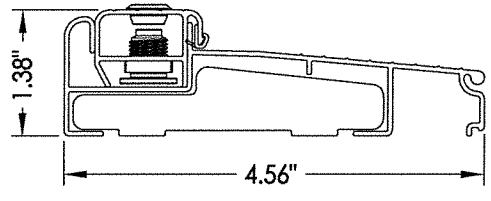
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



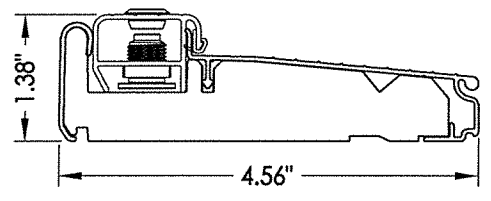
1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



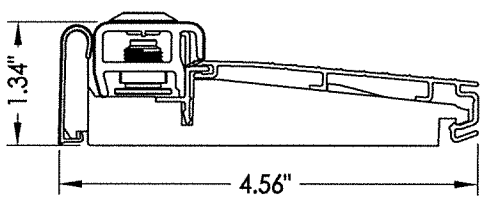
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ZAI4565FN



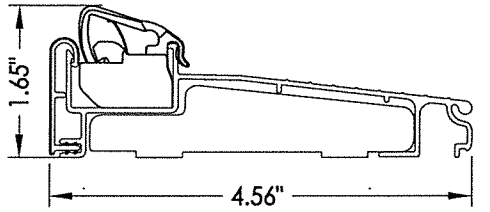
3 INSWING ADJUSTABLE THRESHOLD
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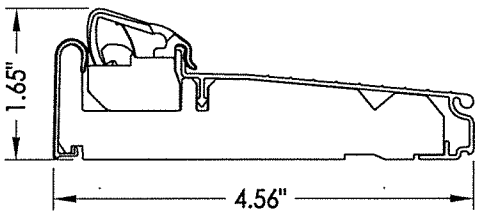
4 INSWING ADJUSTABLE THRESHOLD
ZAIAA4565FN



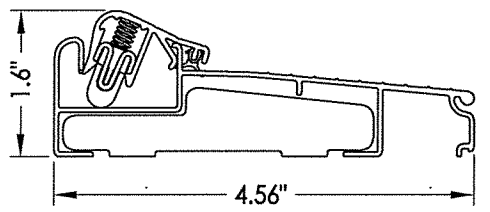
5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS
MAX. DESIGN PRESSURE = ±40 PSF



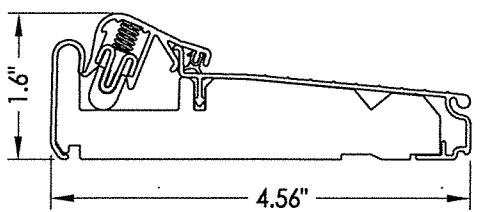
6 INSWING ARTICULATING THRESHOLD
ZACL4565



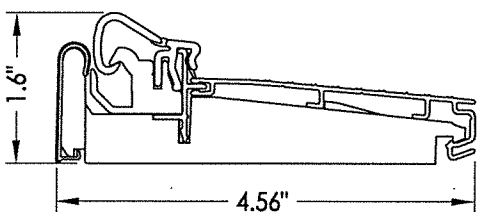
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN



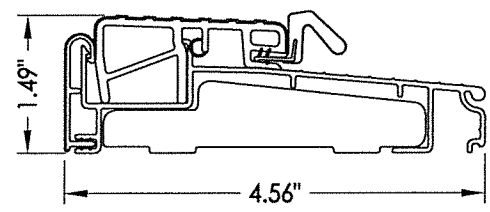
8 INSWING ARTICULATING THRESHOLD
ZACLAA4565



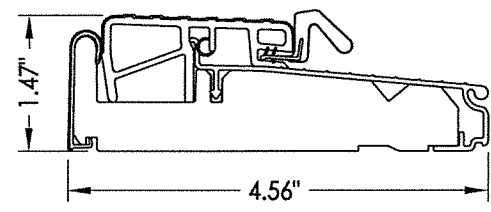
9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



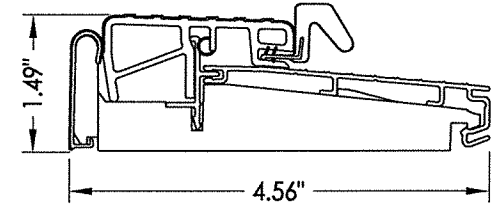
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ZAC4565RDS
MAX. DESIGN PRESSURE = ±35 PSF



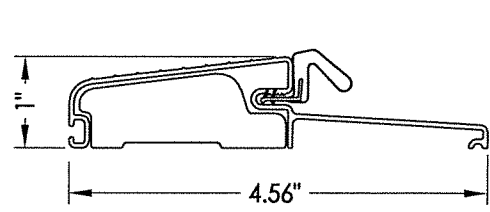
11 OUTSWING THRESHOLD
ZOBL4565



12 OUTSWING THRESHOLD
ZOB4565FN



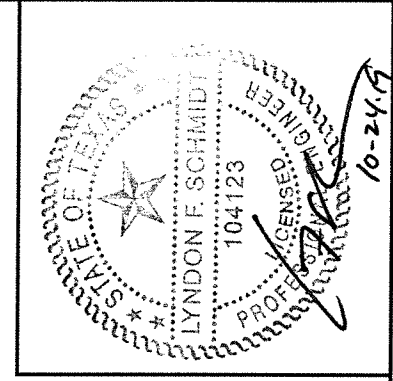
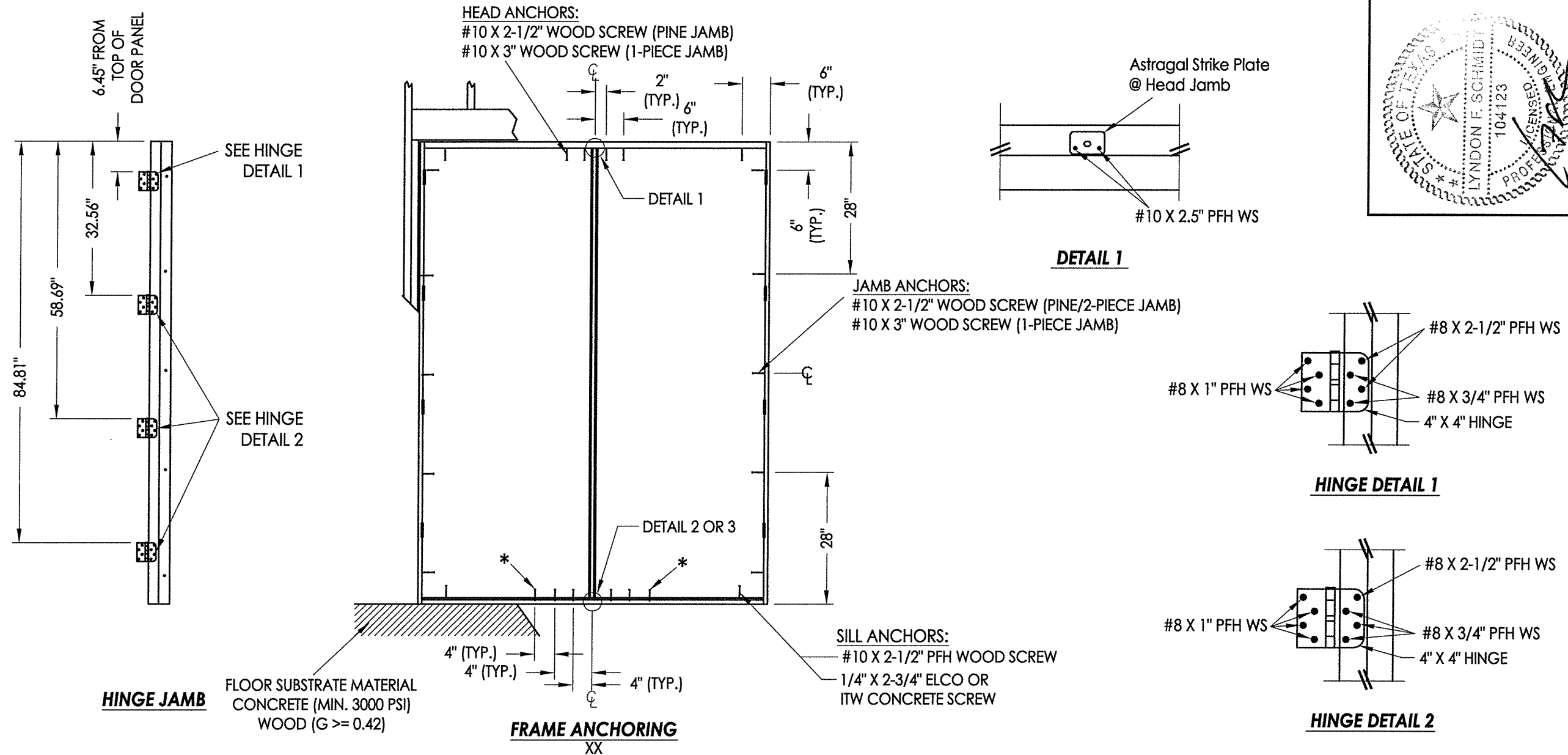
13 OUTSWING THRESHOLD
ZOB4565RDS



14 OUTSWING THRESHOLD
FOB4566

PRODUCT:		ENDURA	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
3	10/23/19	LFS	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	10/20/16	LFS	ADDED THRESHOLDS
1	5/07/15	LFS	ADD NEW ASTRAGAL PIN CAPTURE
DATE: 1/16/14			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4433			
SHEET 6 OF 7			

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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: ENDURA

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS
3	10/23/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	10/20/16	ADDED THRESHOLDS
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE

DATE: 1/16/14
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4433
 SHEET 7 OF 7

* NOTE: Outside anchors are required for D.P. > 40 PSF.

JAMB NOTES:

THE PINE OR "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB.
 THE FusionFrame" 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.

CONCRETE ANCHOR NOTES:

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

