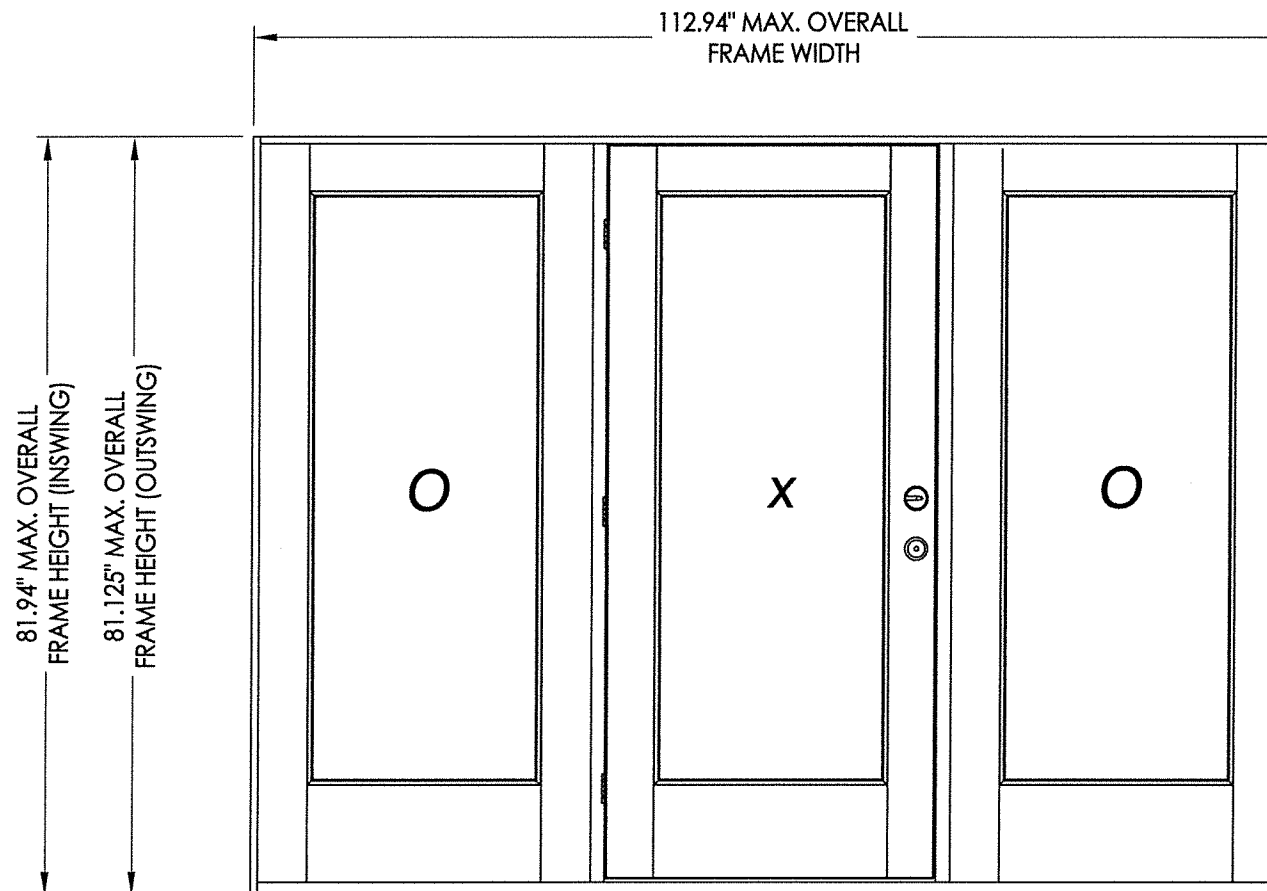


# Glazed Fiberglass Door

"NON-IMPACT"  
INSWING / OUTSWING



**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	Door/Sidelite panel details (flush glazing)
3	Horizontal cross sections
4	Vertical cross sections
5	Vertical cross sections
6	Frame anchoring

CONFIG.	MODEL	DESIGN PRESSURE (PSF) w/ PINE FRAME & FATBOY PINE MULLIONS		DESIGN PRESSURE (PSF) w/ "FusionFrame" FRAME & MULLIONS	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
OXO	INSWING	+50.0	-55.0	+50.0	-50.0
OXO	OUTSWING	+60.0	-60.0	+50.0	-50.0

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: ENDURA

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

NO.	DATE	REVISIONS
3	11/18/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IRC/IBC CODE
2	9/05/18	ADDED ADDITIONAL THRESHOLDS
1	1/07/14	ADDED ARTICULATING SILL

DATE: 8/07/12

SCALE: N.T.S.

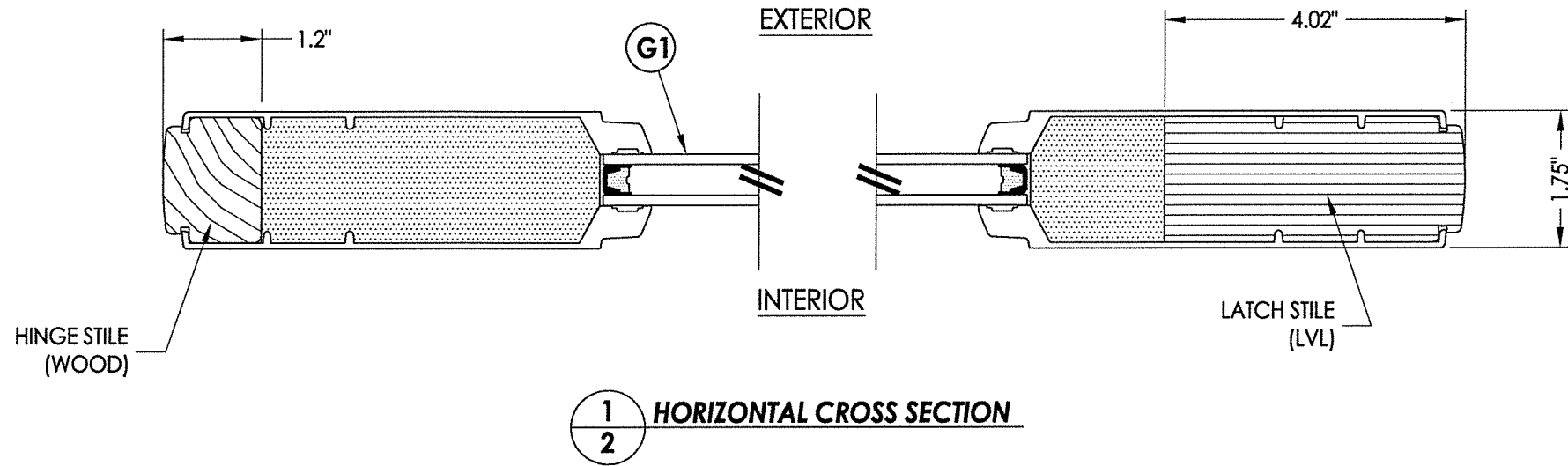
DWG. BY: JK

CHK. BY: LFS

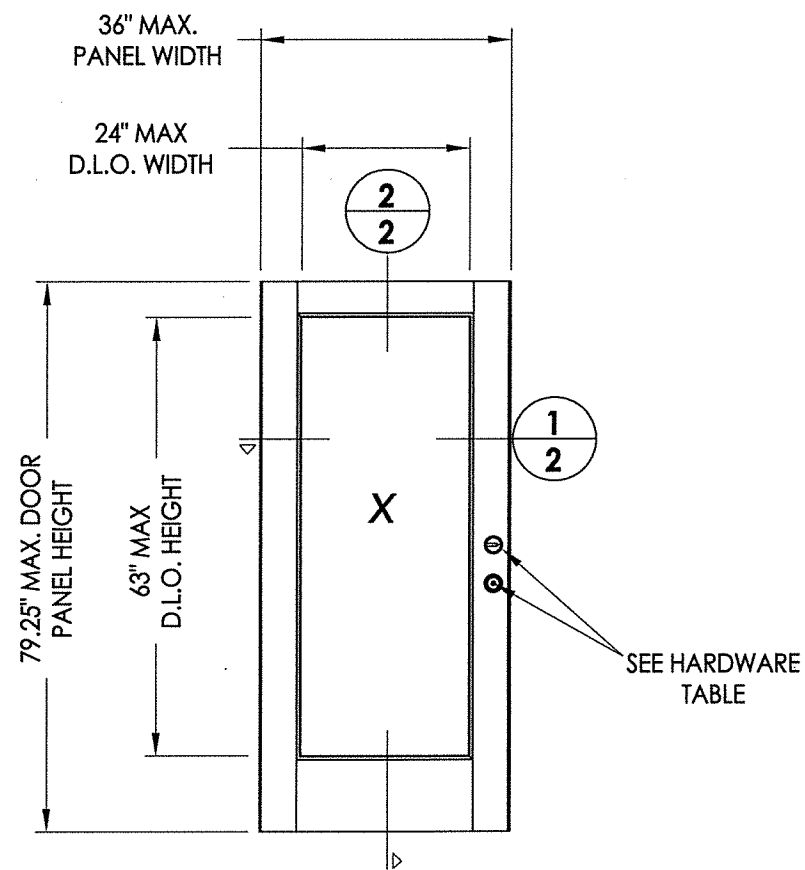
DRAWING NO.: TX-4206

SHEET 1 OF 6

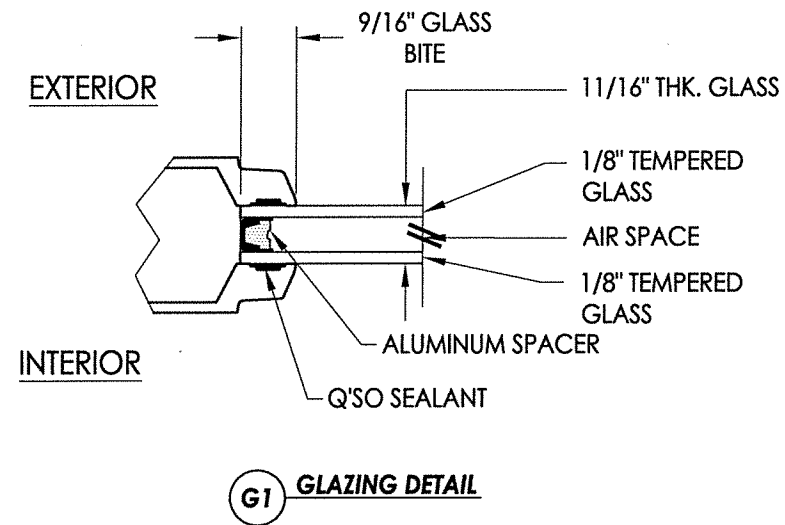
R:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-610 Therma-Tru Flush GLZ\Drawings\2019 REV\TX-4206-07.dwg, 2.3



**1**  
**2** HORIZONTAL CROSS SECTION

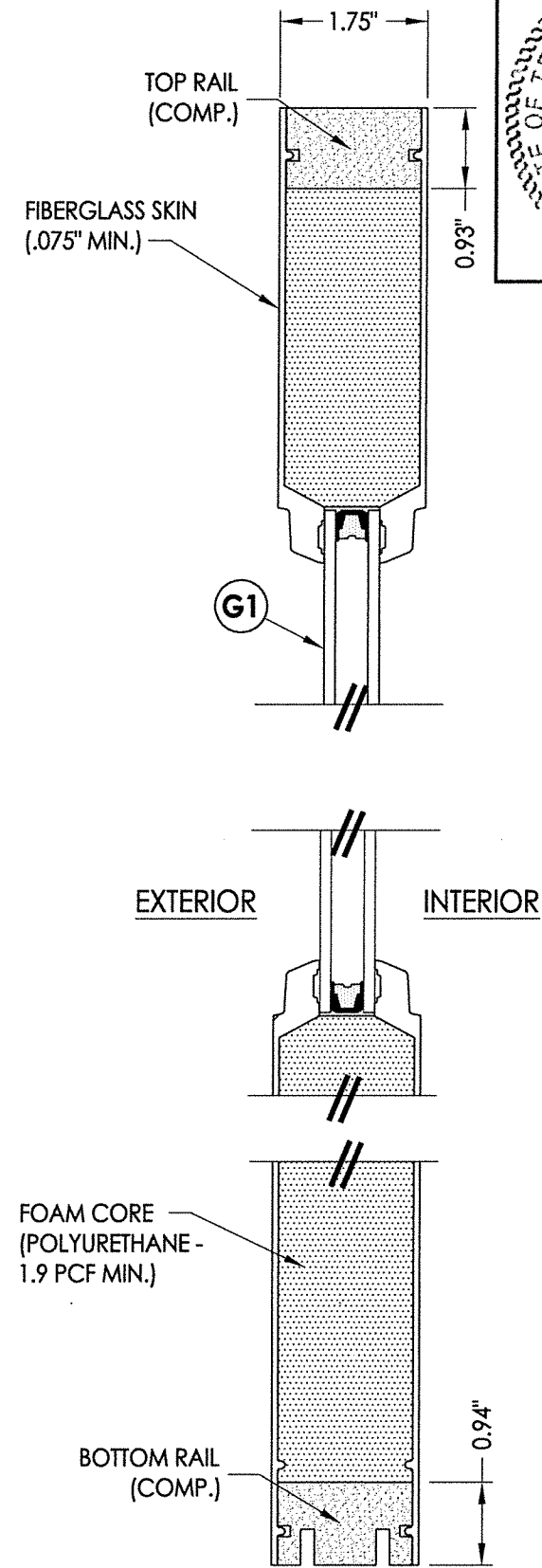


**THERMA TRU - Flush Glazed  
Door/Sidelite Panel  
(fiberglass)**

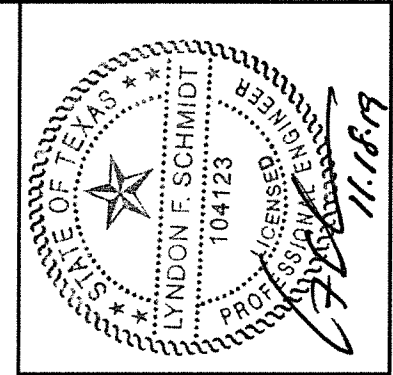


**G1** GLAZING DETAIL

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	LATCH: KWIKSET SIGNATURE SERIES (991) DEADBOLT: KWIKSET SIGNATURE SERIES (980/985)



**2**  
**2** VERTICAL CROSS SECTION



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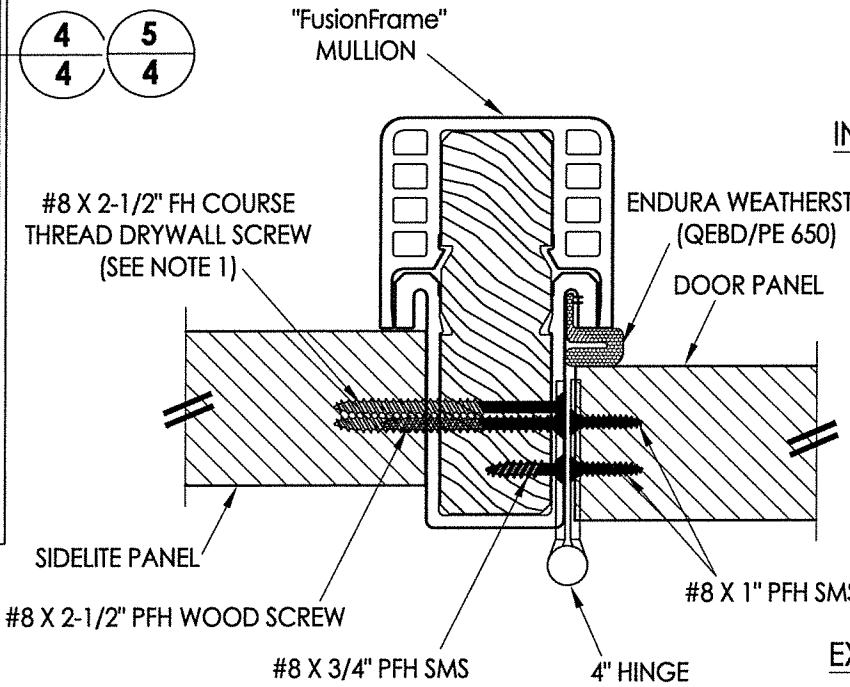
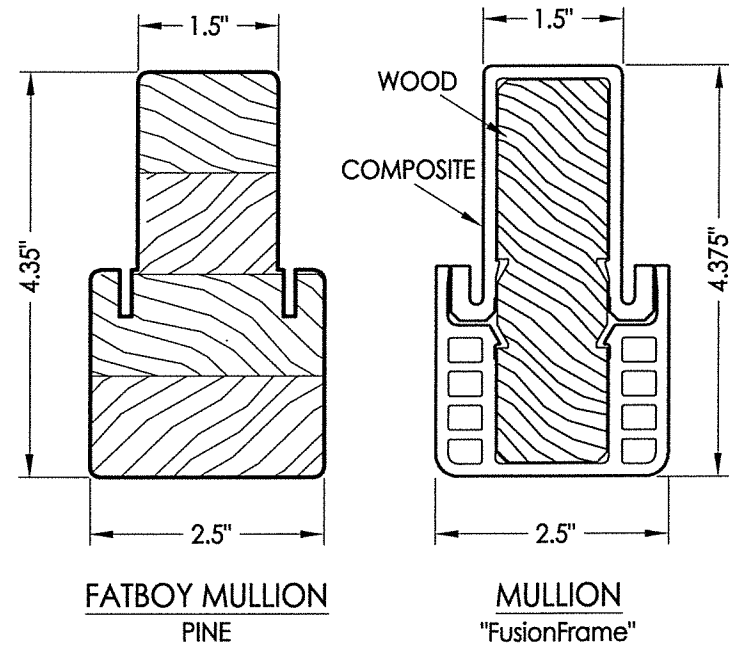
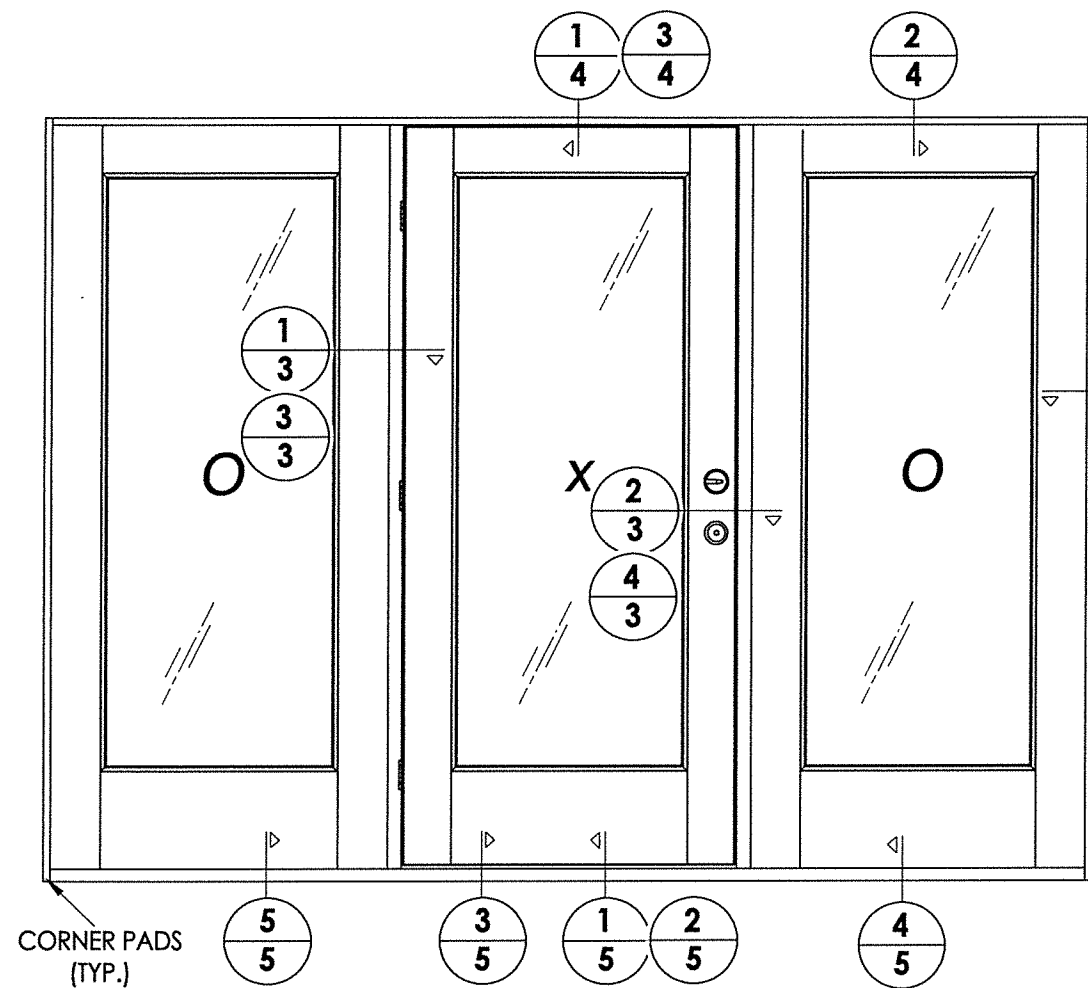
PRODUCT: ENDURA

PART OR ASSEMBLY:  
SIDELITE PANEL DETAILS  
(FLUSH GLAZING)

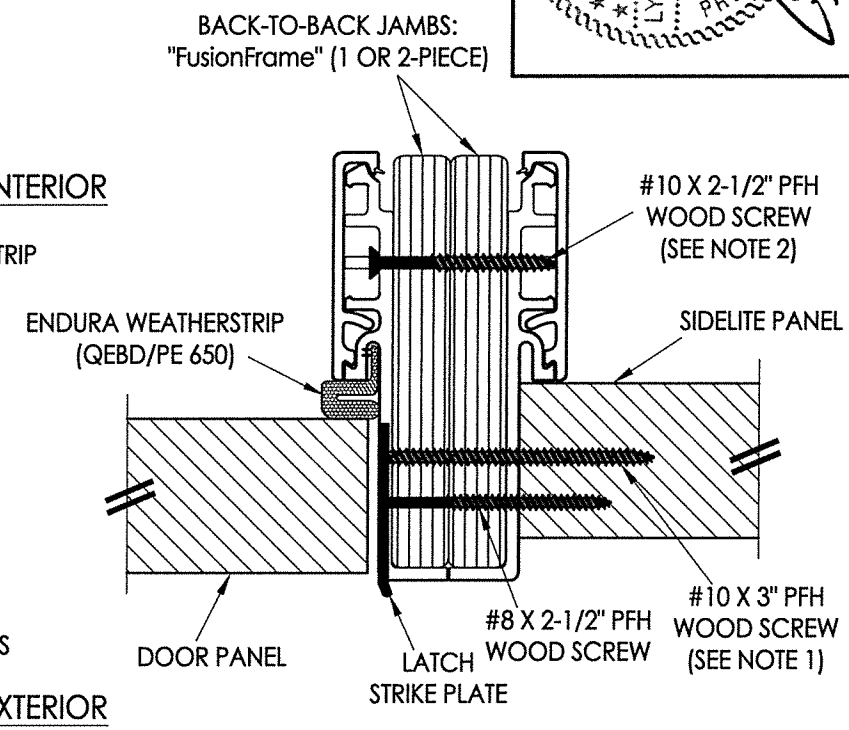
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2	9/05/18	LFS	ADDED ADDITIONAL THRESHOLDS
1	1/07/14	LFS	ADDED ARTICULATING SILL

DATE: 8/07/12  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4206  
SHEET 2 OF 6

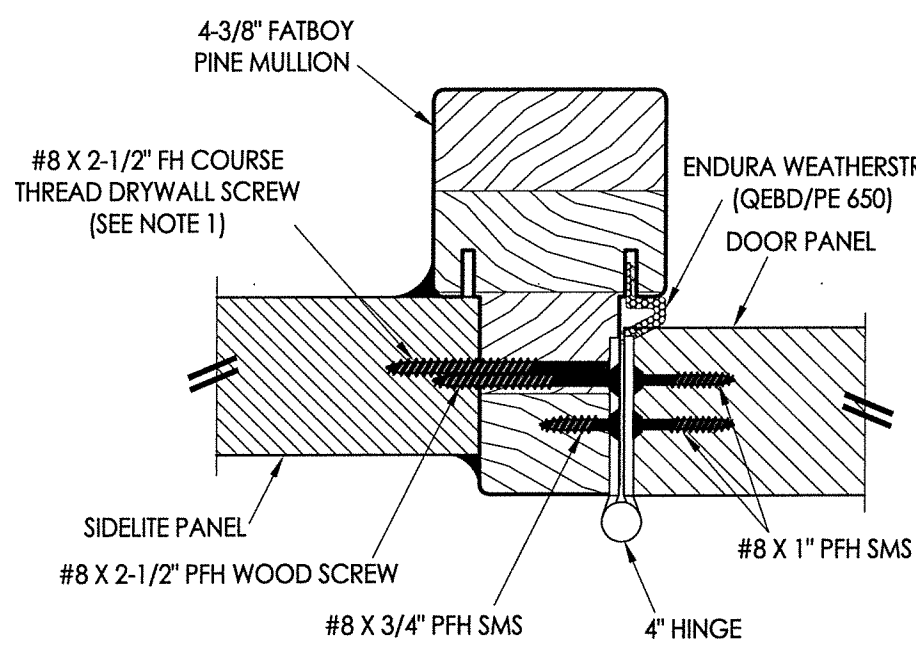
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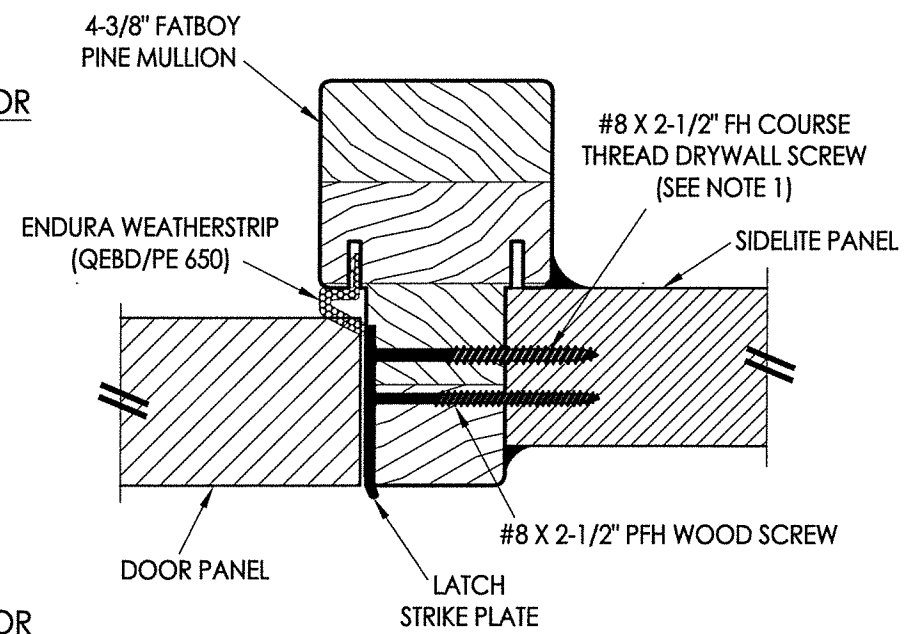
**3 HORIZONTAL CROSS SECTION**  
Outswing shown - Inswing also approved



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

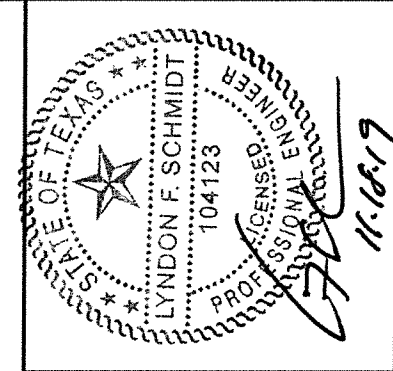


**1 HORIZONTAL CROSS SECTION**  
Outswing shown - Inswing also approved



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

**NOTES:**  
1. Spacing for sidelite screws: 6.5", 38.5" and 69" from head to sill (3 total).  
2. Spacing for mullion screws: 6" from each end plus 3 more equally spaced (5 total).



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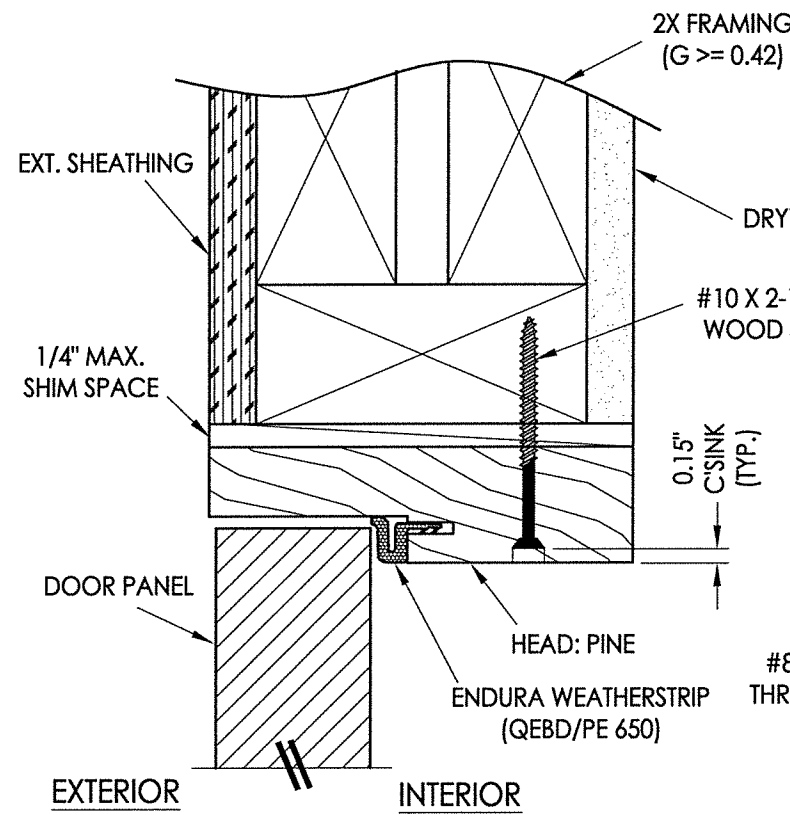
PRODUCT: ENDURA  
Steel DOOR  
PART OR ASSEMBLY:  
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
3	11/18/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE	LFS
2	9/05/18	ADDED ADDITIONAL THRESHOLDS	LFS
1	1/07/14	ADDED ARTICULATING SILL	LFS

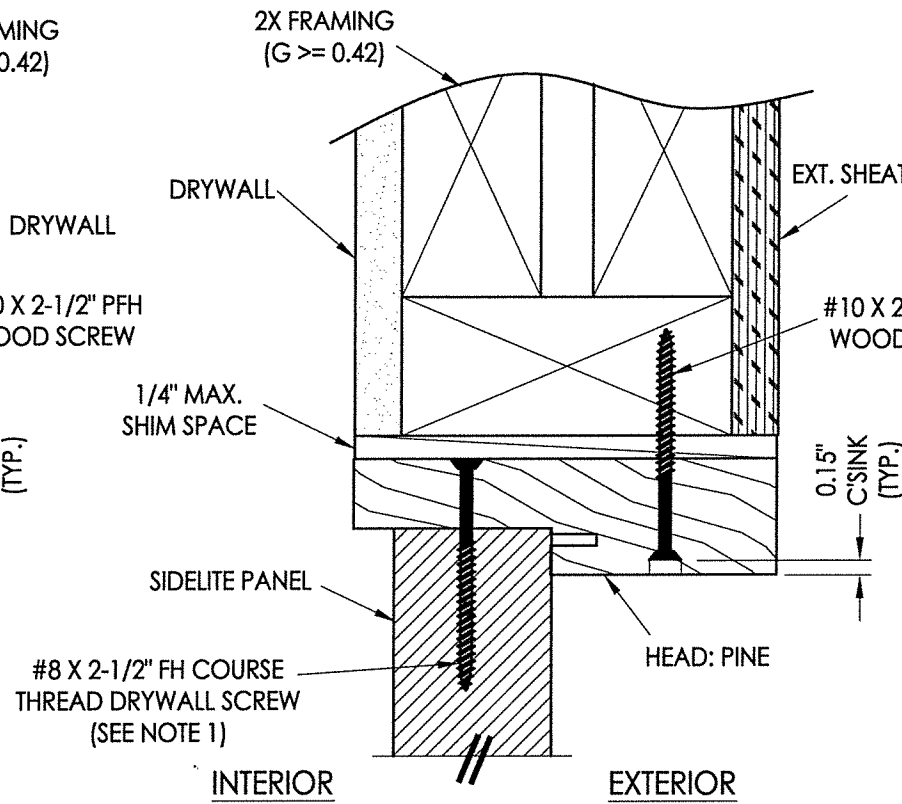
DATE: 8/07/12  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4206  
SHEET 3 OF 6

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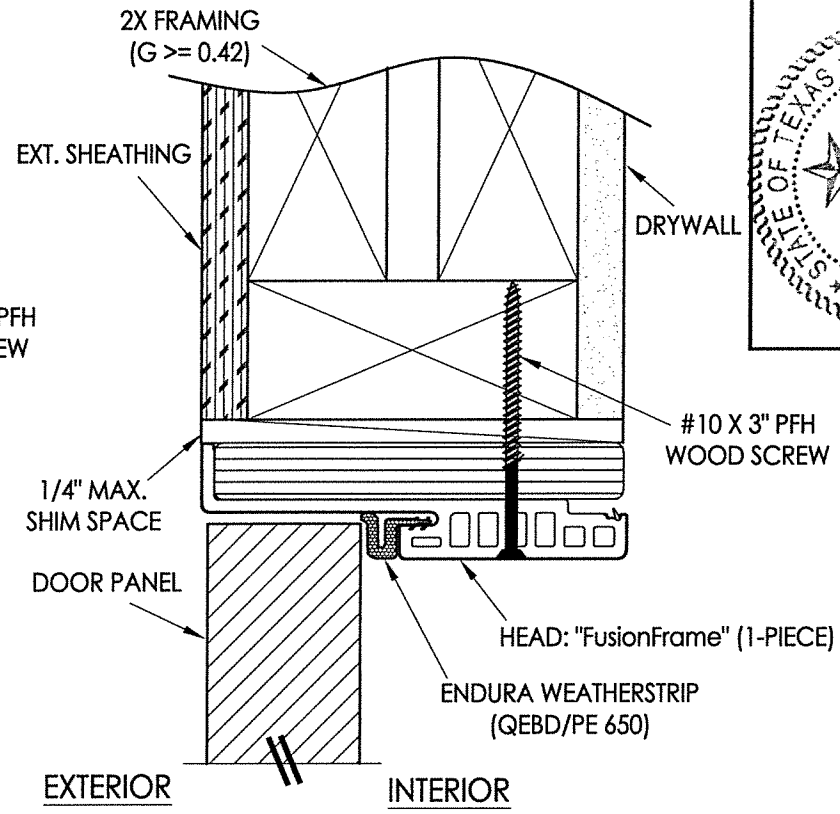
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**1 VERTICAL CROSS SECTION**  
**4** Outswing shown - inswing also approved

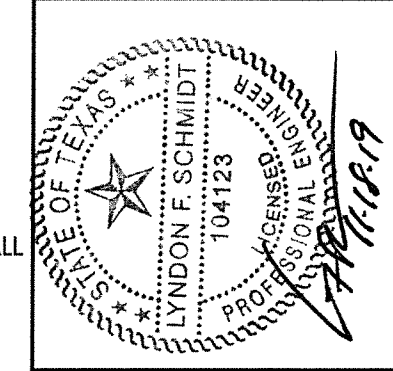


**2 VERTICAL CROSS SECTION**  
**4** Inswing shown - Outswing also approved

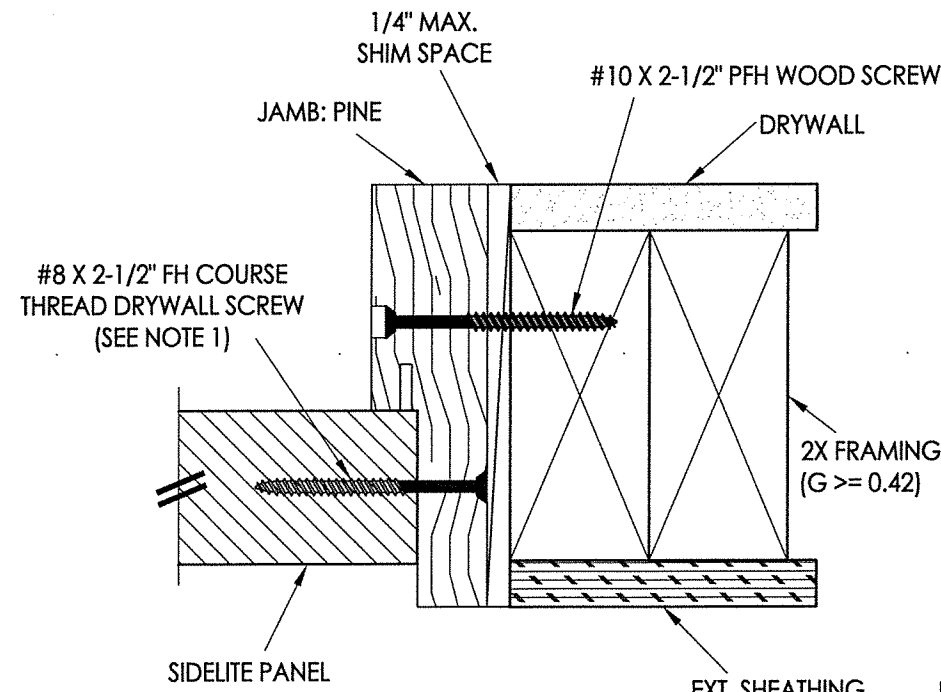
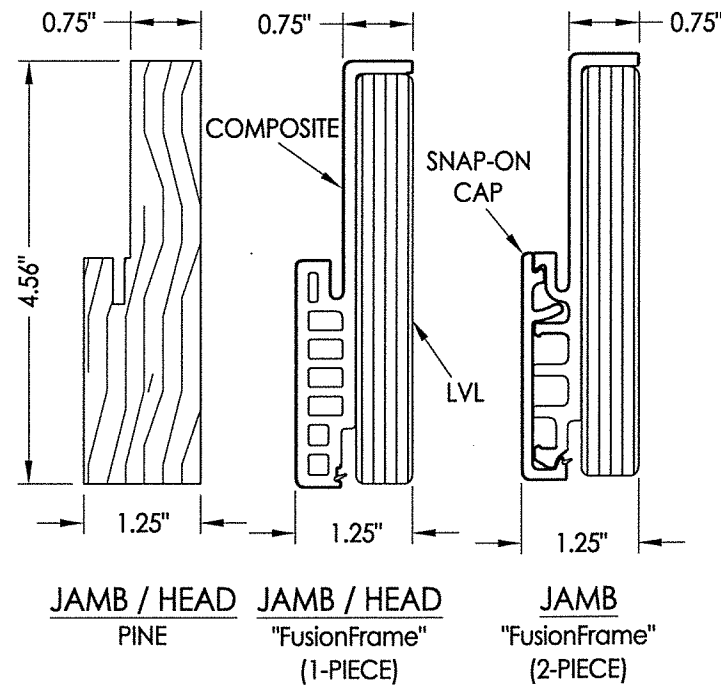


**3 VERTICAL CROSS SECTION**  
**4** Outswing shown - inswing also approved

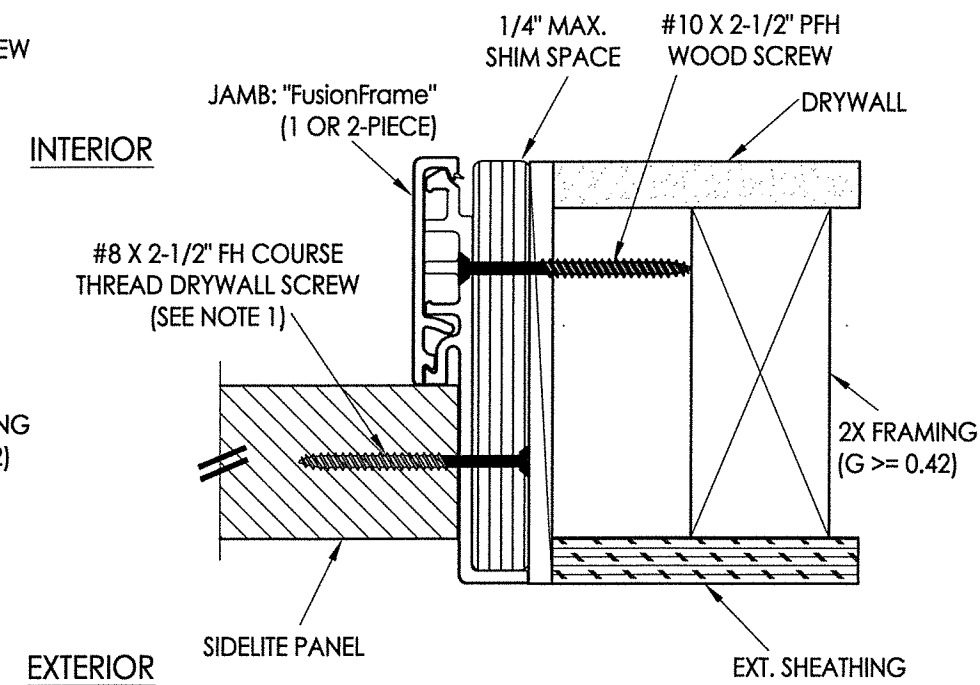
**NOTE:**  
 1. Spacing for sidelite screws: 6" from each end (2 total).



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 CERTIFICATE OF REGISTRATION # F-11852



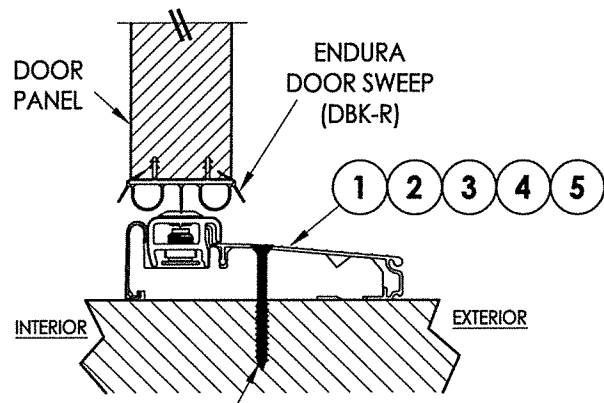
**4 HORIZONTAL CROSS SECTION**  
**4** Outswing shown - Inswing also approved



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

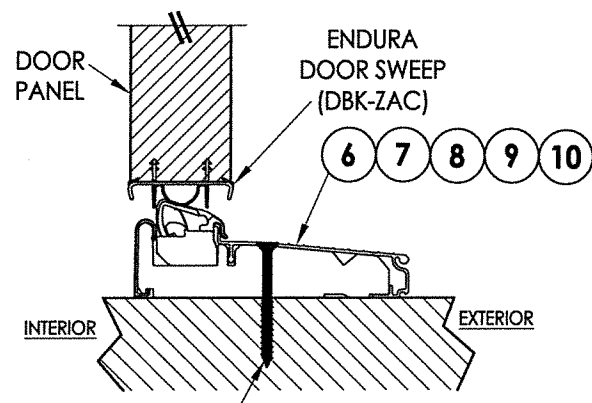
PRODUCT:	ENDURA	
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS	
NO.	DATE	BY
3	11/18/19	LFS
2	9/05/18	LFS
1	1/07/14	LFS
REVISIONS		
DATE:	8/07/12	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4206	
SHEET	4	OF 6

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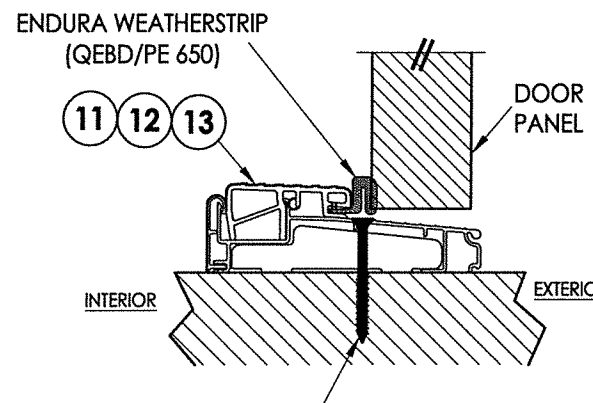
#10 X 2.5" PFH WOOD SCREW OR  
1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

**1** VERTICAL CROSS SECTION  
**5** Inswing Adjustable Threshold



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

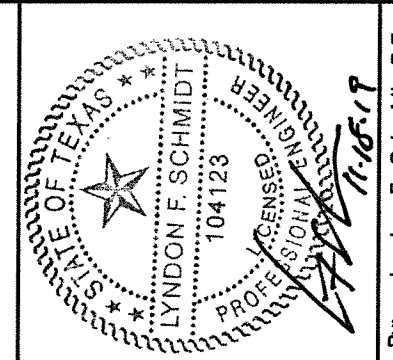
**2** VERTICAL CROSS SECTION  
**5** Inswing Articulating Threshold



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

**3** VERTICAL CROSS SECTION  
**5** Outswing Bump Threshold

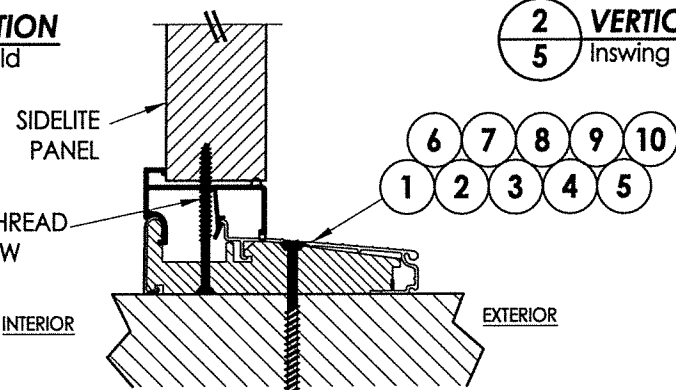
NOTE:  
1. Spacing for sidelite screws:  
6" from each end (2 total).



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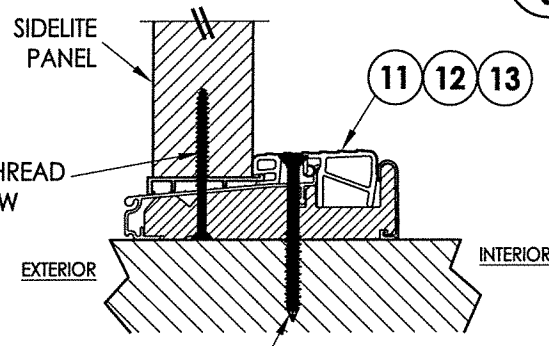
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852



#8 X 2.5" COURSE THREAD  
DRYWALL SCREW  
(SEE NOTE 1)

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

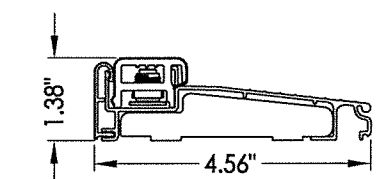
**4** VERTICAL CROSS SECTION  
**5** Inswing configuration



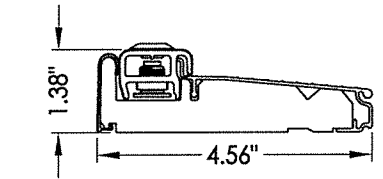
#8 X 2.5" COURSE THREAD  
DRYWALL SCREW  
(SEE NOTE 1)

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

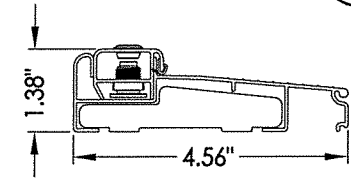
**5** VERTICAL CROSS SECTION  
**5** Outswing configuration



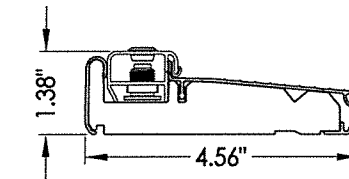
**1** INSWING ADJUSTABLE THRESHOLD  
ZAIL4565



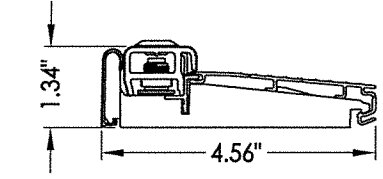
**2** INSWING ADJUSTABLE THRESHOLD  
ZAI4565FN



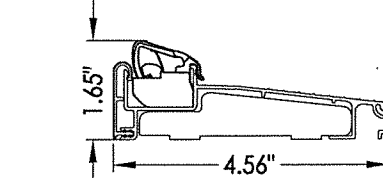
**3** INSWING ADJUSTABLE THRESHOLD  
ZAILAA4565



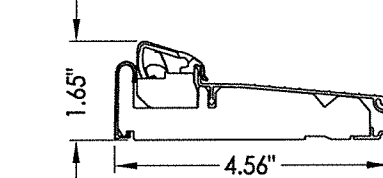
**4** INSWING ADJUSTABLE THRESHOLD  
ZAI4565FN



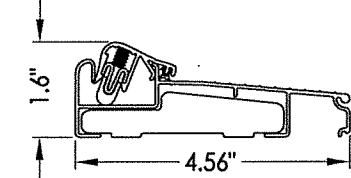
**5** INSWING ADJUSTABLE THRESHOLD  
ZAI4565RDS



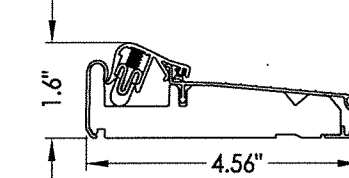
**6** INSWING ARTICULATING THRESHOLD  
ZACL4565



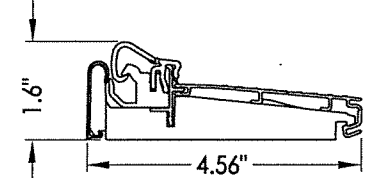
**7** INSWING ARTICULATING THRESHOLD  
ZAC4565FN



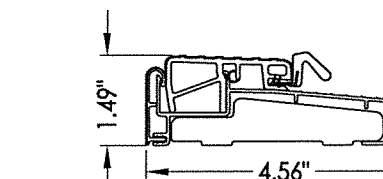
**8** INSWING ARTICULATING THRESHOLD  
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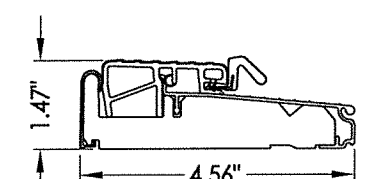
**9** INSWING ARTICULATING THRESHOLD  
ZACAA4565FN



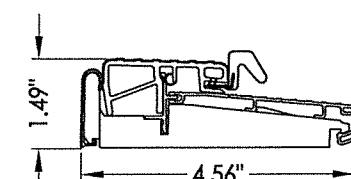
**10** INSWING ARTICULATING THRESHOLD  
ZAC4565RDS



**11** OUTSWING THRESHOLD  
ZOBL4565



**12** OUTSWING THRESHOLD  
ZOB4565FN



**13** OUTSWING THRESHOLD  
ZOB4565RDS

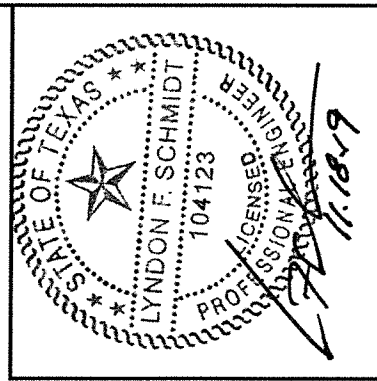
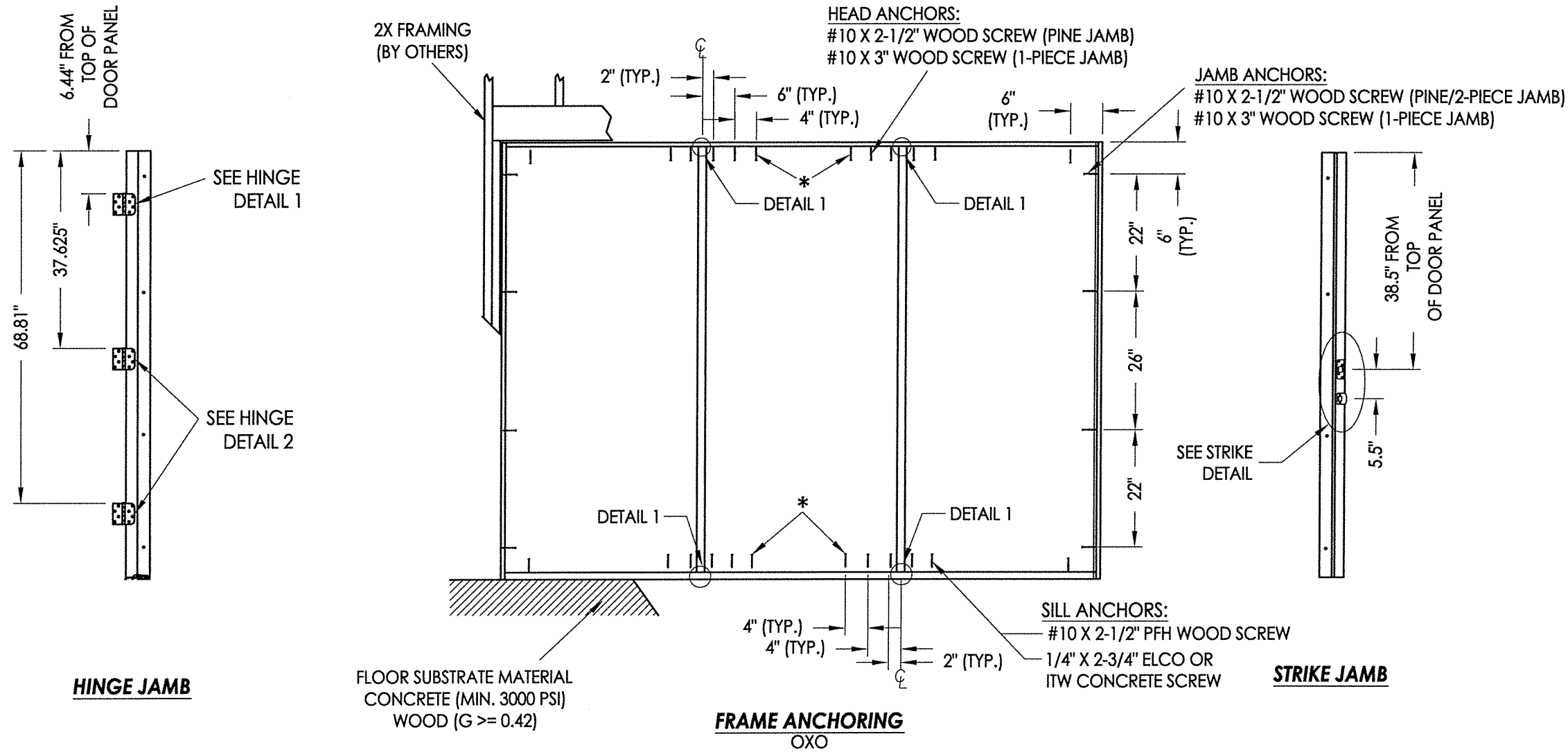
PRODUCT: ENDURA  
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	11/18/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	9/05/18	ADDED ADDITIONAL THRESHOLDS
1	1/07/14	ADDED ARTICULATING SILL

DATE: 8/07/12  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4206  
SHEET 5 OF 6

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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	11/18/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
2	9/05/18	ADDED ADDITIONAL THRESHOLDS
1	1/07/14	ADDED ARTICULATING SILL
		BY

DATE: 8/07/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4206

SHEET 6 OF 6

\*NOTE: These anchors required for D.P. > 45 PSF.

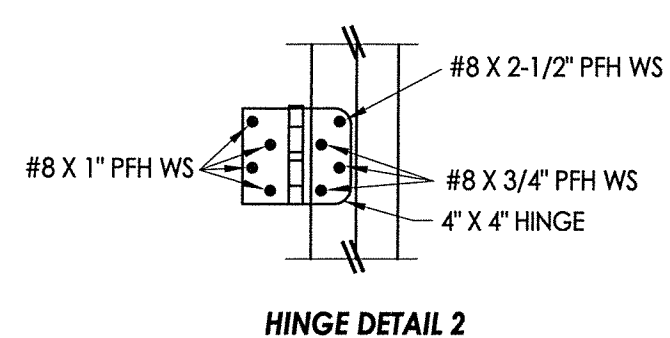
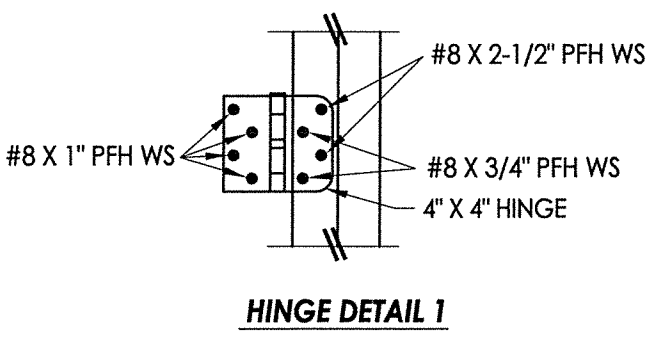
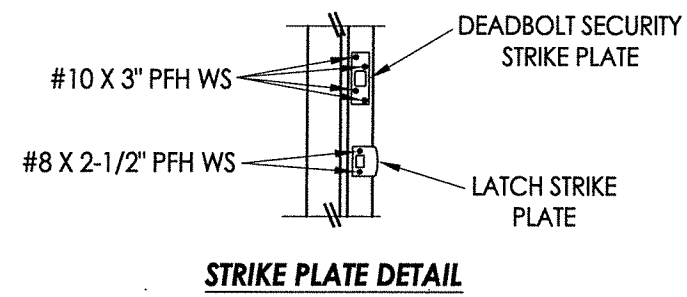
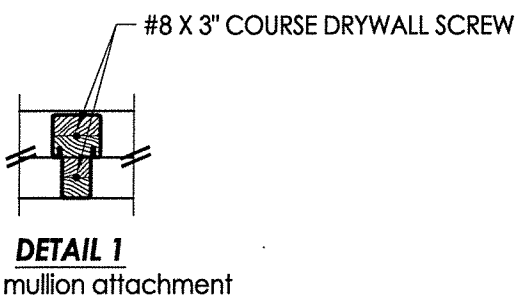
**JAMB NOTES:**  
THE PINE OR "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB. THE "FusionFrame" 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.

**INTEGRAL MULLION NOTES:**  
THE FATBOY PINE MULLION, "FusionFrame" MULLION, OR THE "FusionFrame" BACK-TO-BACK JAMB (1-PIECE OR 2-PIECE) MAY ALL BE USED AS THE INTEGRAL MULLION.

**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"



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