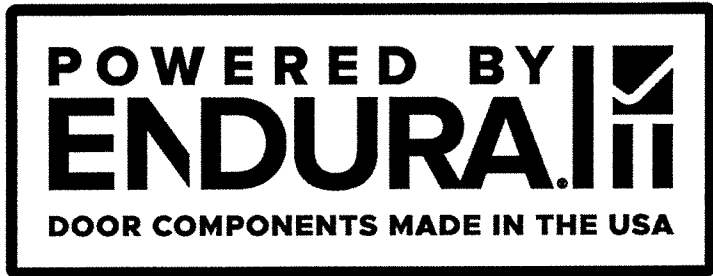


R:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-955 Opaque Therma-Tru FG door OXO (LK, DB) (4755-4756)\C - Drawings\TX-4755.56.dwg, TX-4756



Opaque Fiberglass Single Door w/ Sidelites

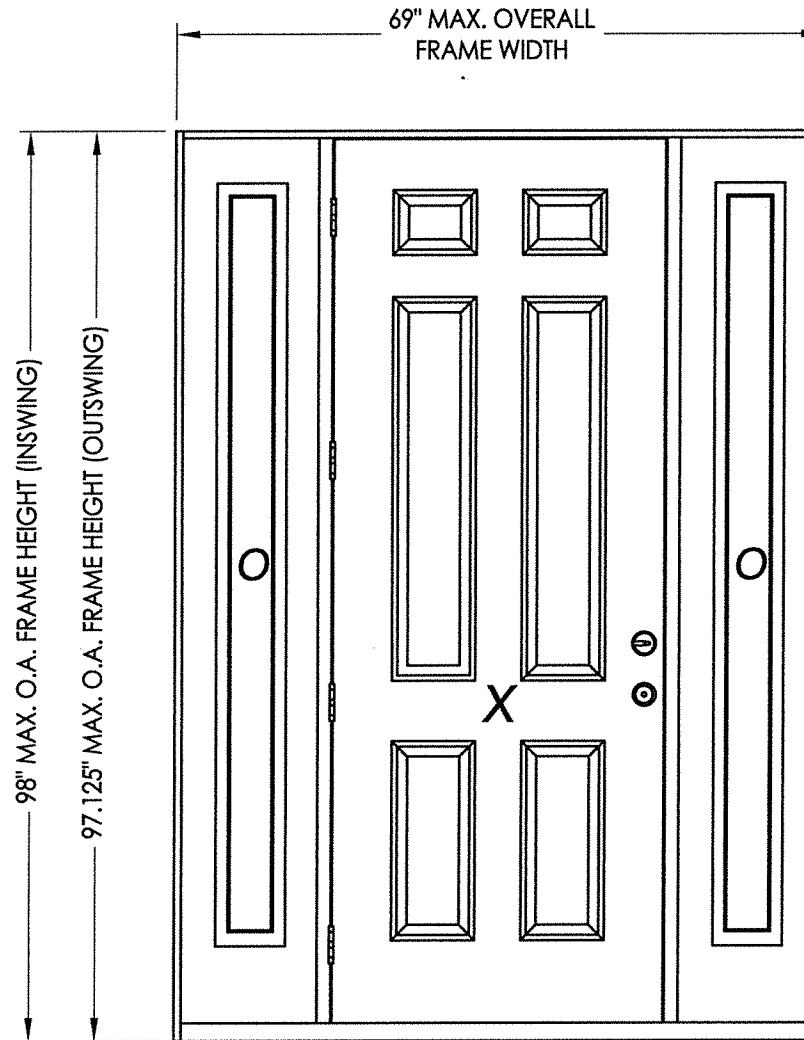
CONTINUOUS HEAD & SILL FRAME SYSTEM
IN SWING / OUT SWING
"NON-IMPACT"

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:

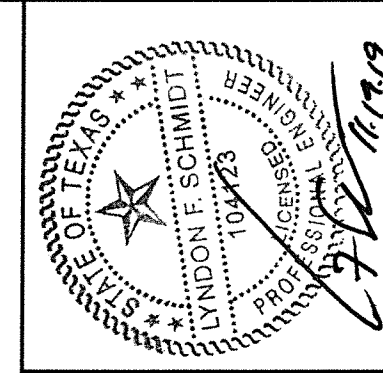
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section 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 panel details
3	Slidette panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Frame anchoring



MODEL	DESIGN PRESSURE (PSF) w/ PINE FRAME & FATBOY PINE MULLIONS		DESIGN PRESSURE (PSF) w/ "FusionFrame" FRAME & MULLIONS	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
IN SWING	+55.0	-60.0	+50.0	-50.0
OUT SWING	+45.0	-45.0	+45.0	-45.0

SEE SHEET 6 FOR THRESHOLD DESIGN PRESSURE LIMITATIONS

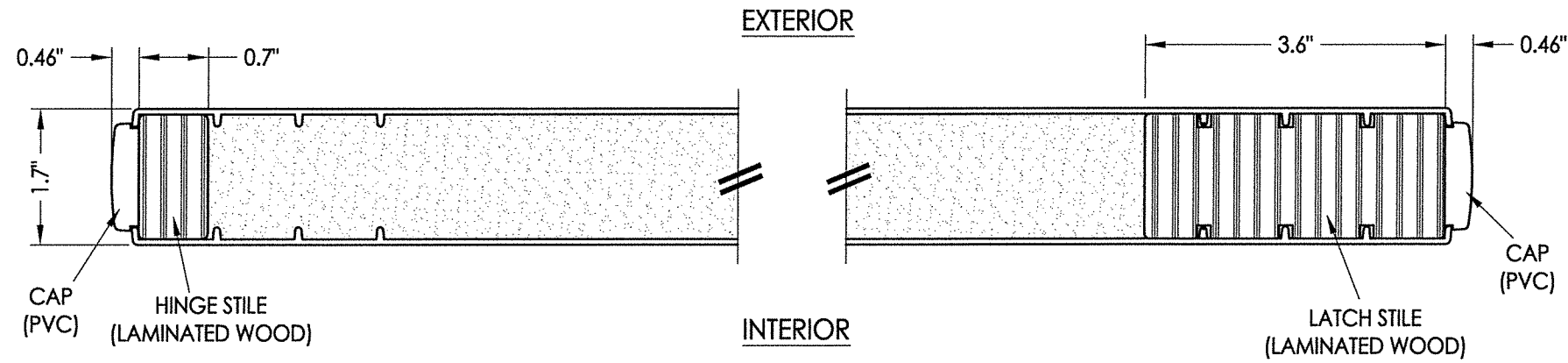


Documents Prepared By: Lyndon F. Schmidt, P.E.
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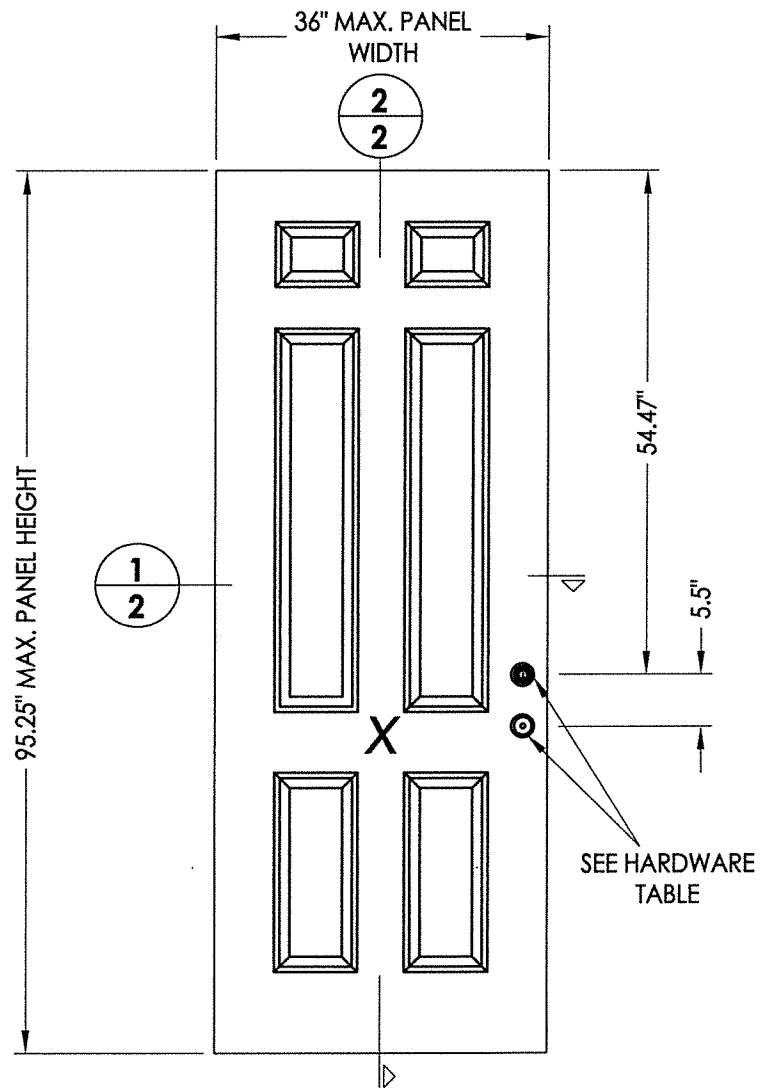
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	ENDURA		
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES		
NO.	DATE	BY	REVISIONS
1	11/19/19	LFS	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
DATE: 12/04/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4756			
SHEET 1 OF 7			

R:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-955 Opaque Thermo-Tru FG door OXO (LK, DB) (4755-4756)\C - Drawings\TX-4755.56.dwg, 2.4

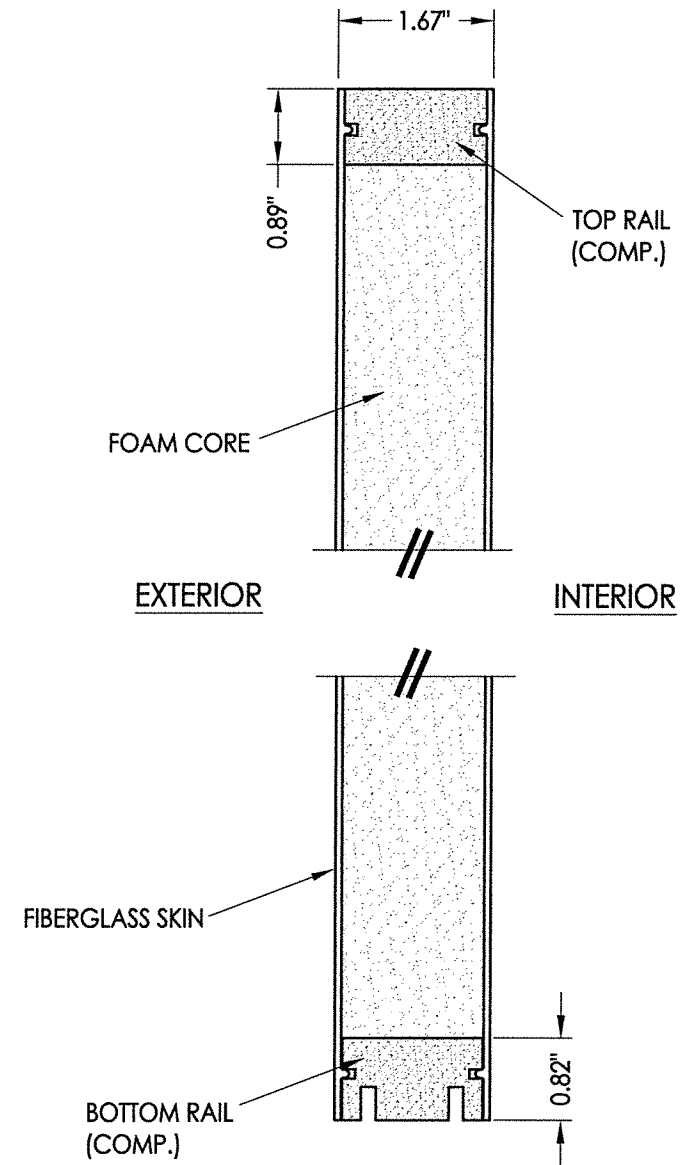


1
2 **HORIZONTAL CROSS SECTION**



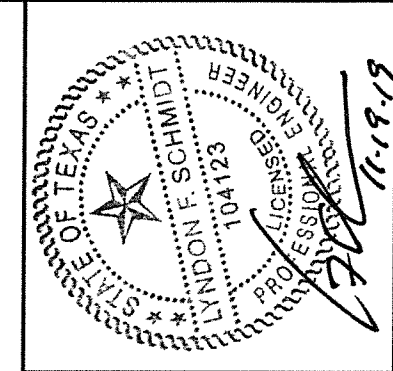
40 **DOOR PANEL**
Therma-Tru Fiberglass

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)



2
2 **VERTICAL CROSS SECTION**

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



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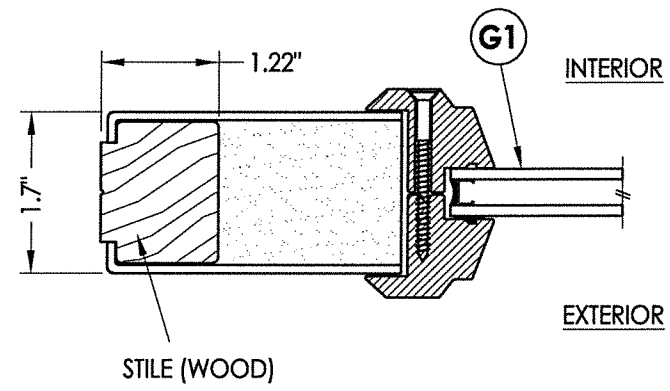
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	ENDURA	
PART OR ASSEMBLY:	DOOR PANEL DETAILS & GLAZING DETAIL	
NO.	DATE	BY
1	11/19/19	LFS
ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE		

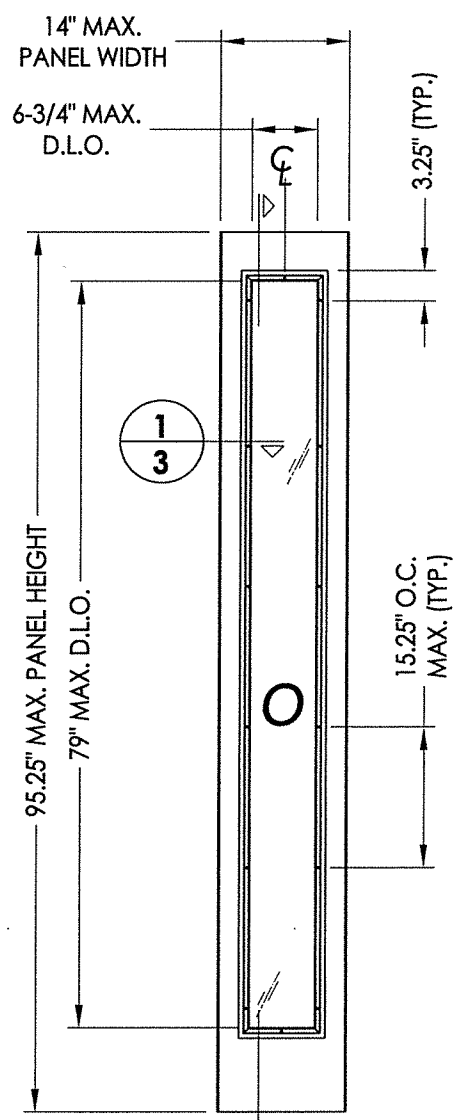
DATE:	12/04/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4756
SHEET	2 OF 7

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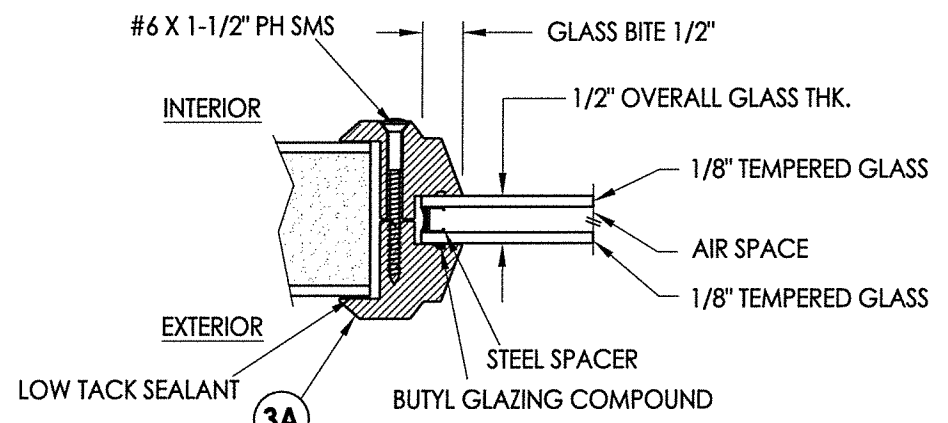
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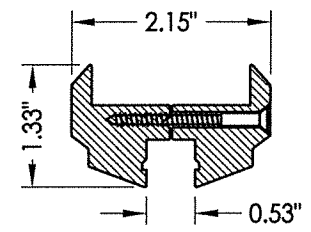
1
3 HORIZONTAL CROSS SECTION



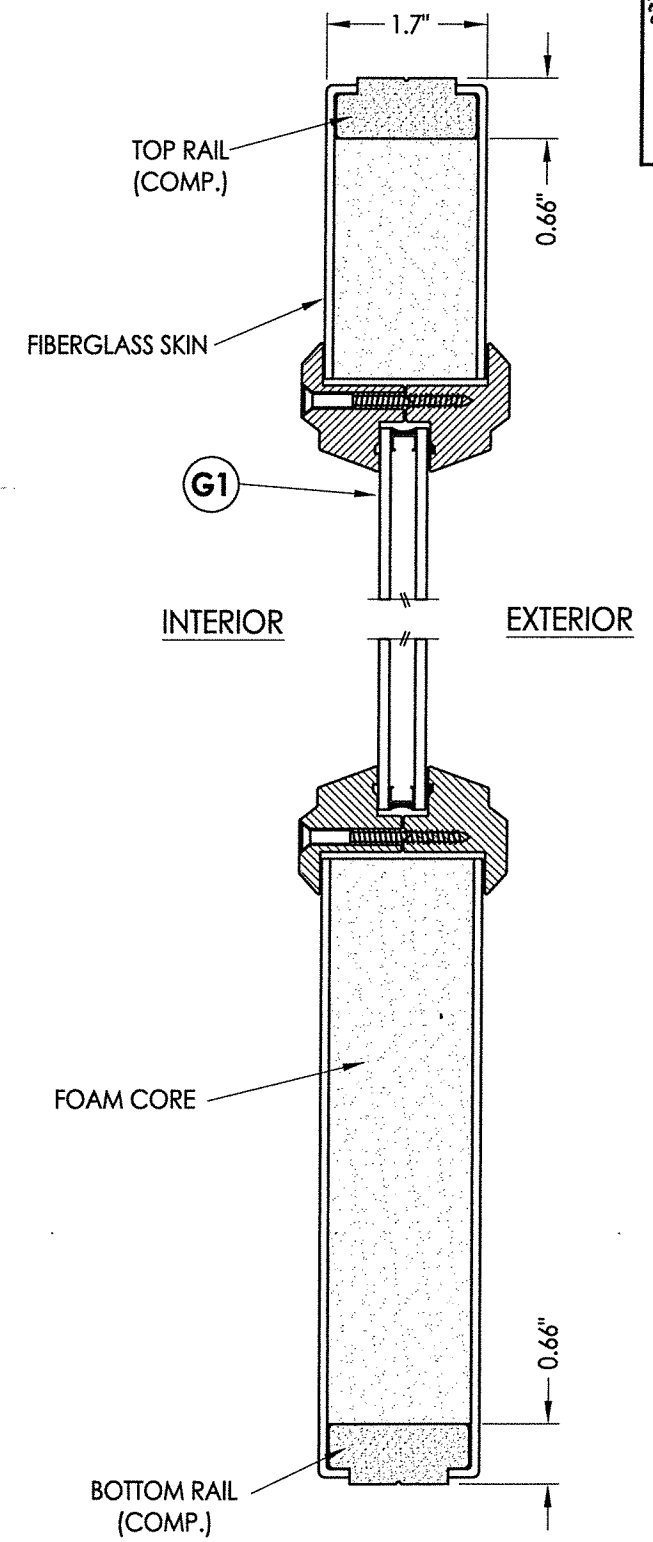
50 SIDELITE PANEL
Therma-Tru Fiberglass



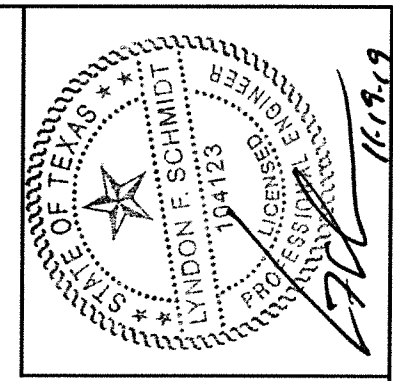
G1 GLAZING DETAIL
PVC Lite Frame



3A PVC LITE FRAME



2
3 VERTICAL CROSS SECTION



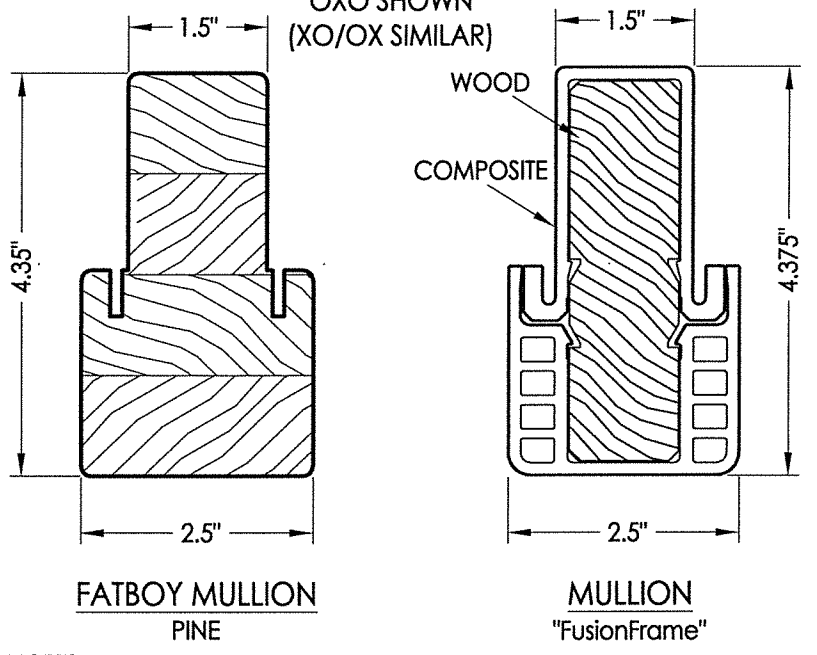
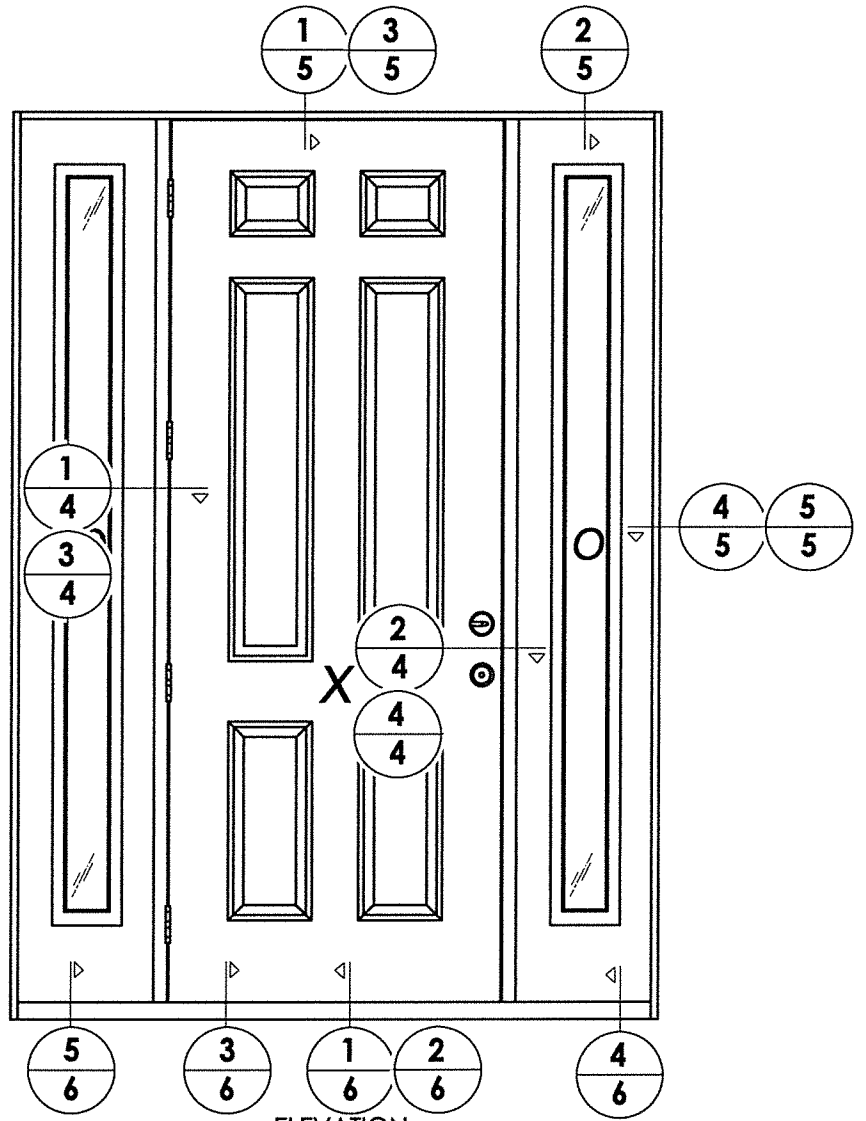
Documents Prepared By: Lyndon F. Schmidt, P.E.
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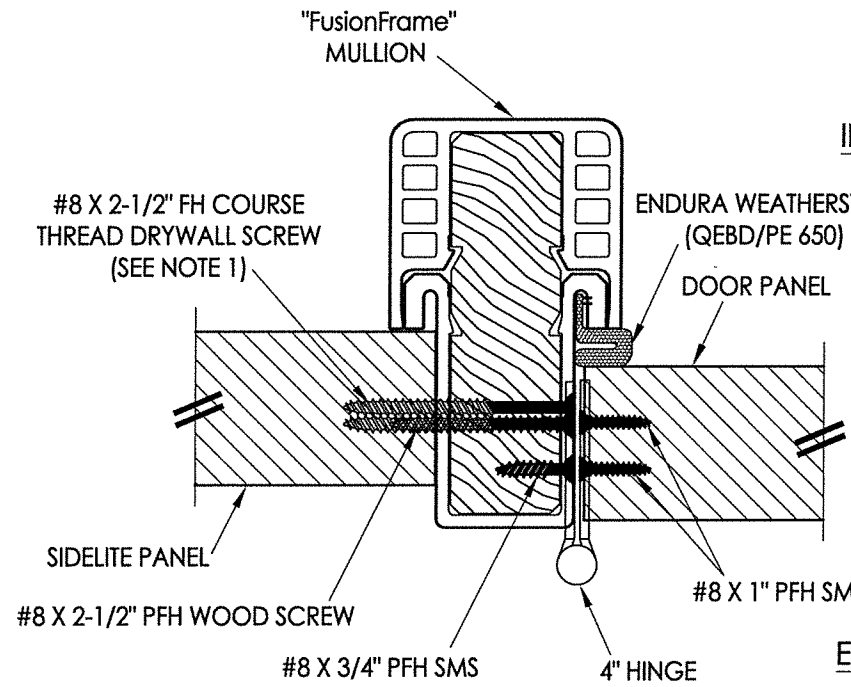
PRODUCT:	ENDURA	
PART OR ASSEMBLY:	SIDELITE PANEL DETAILS (LIP LITE INSERT GLAZING)	
NO.	DATE	BY
1	11/19/19	LFS
ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE		
REVISIONS		
DATE:	12/04/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4756	
SHEET	3 OF 7	

SIDELITE SKIN: FIBERGLASS (0.075" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM

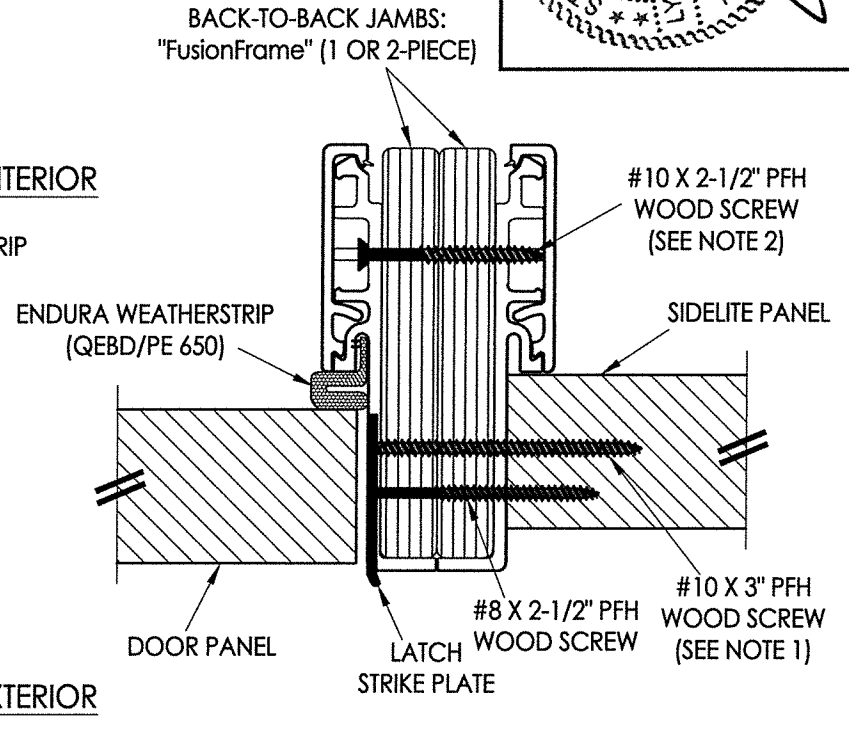
R:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-955 Opaque Therma-Tru FG door OXO (LK, DB) (4755-4756)\C - Drawings\TX-4755.56.dwg, 4.4



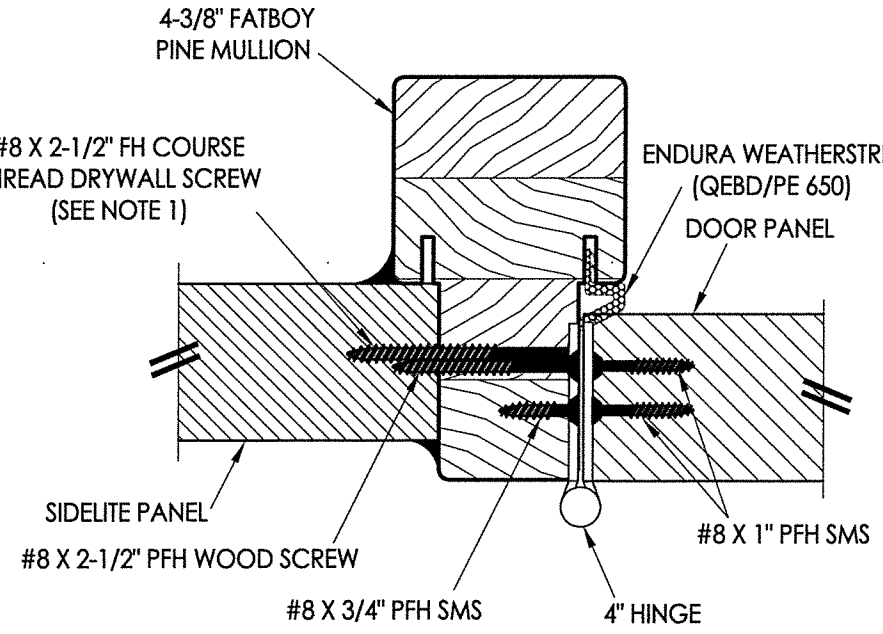
NOTES:
 1. Spacing for sidelite screws: 6.5", 35.5", 57.25" and 85" from head to sill (4 total).
 2. Spacing for mullion screws: 6" from each end plus 3 more equally spaced (5 total).



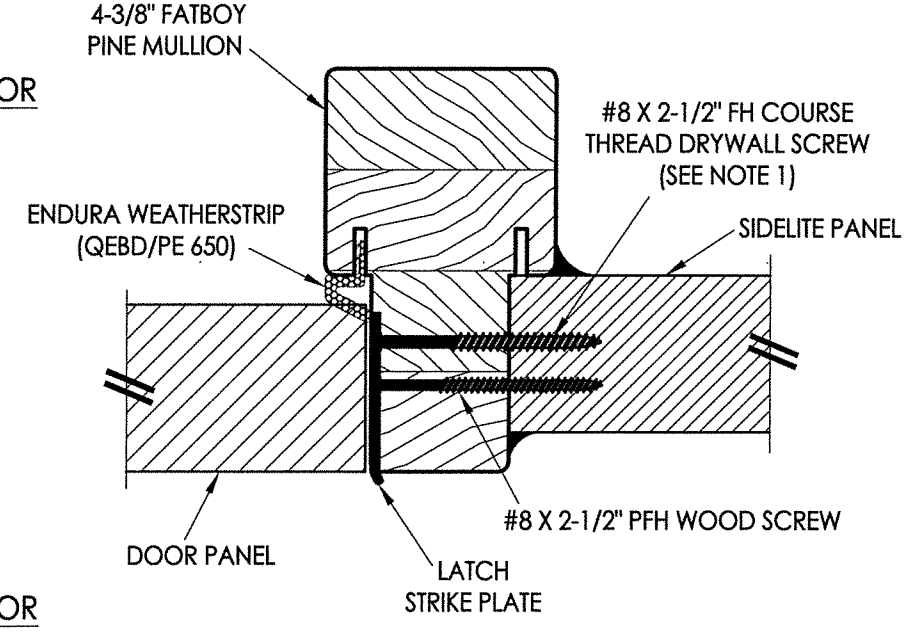
3 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



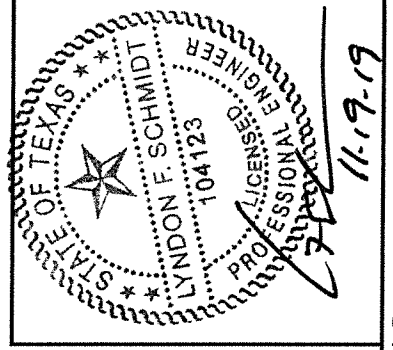
4 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



1 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



2 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



Documents Prepared By: Lyndon F. Schmidt, P.E.
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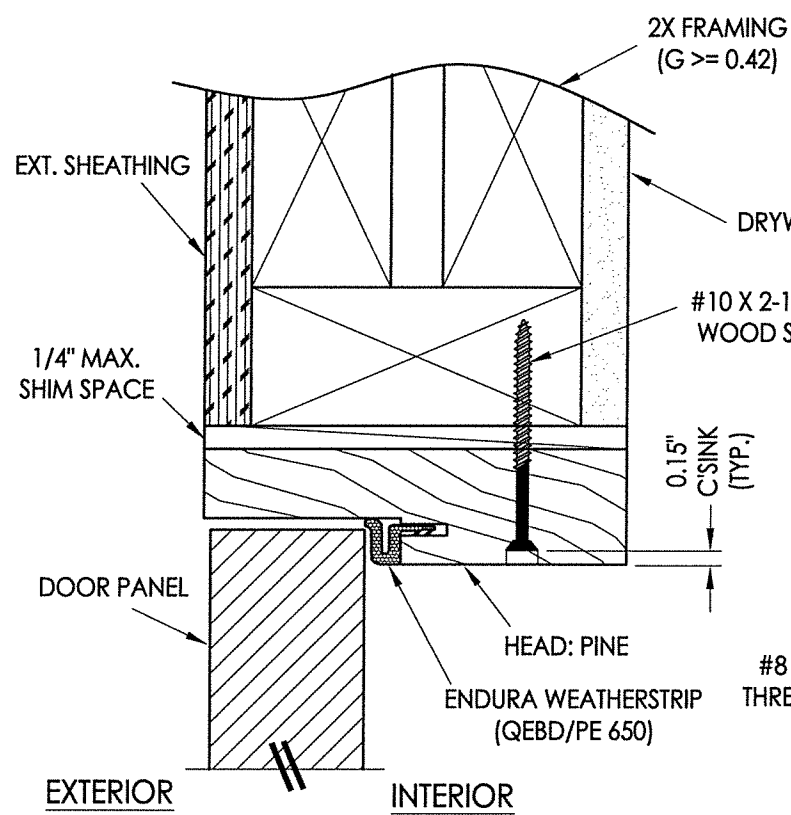
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

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

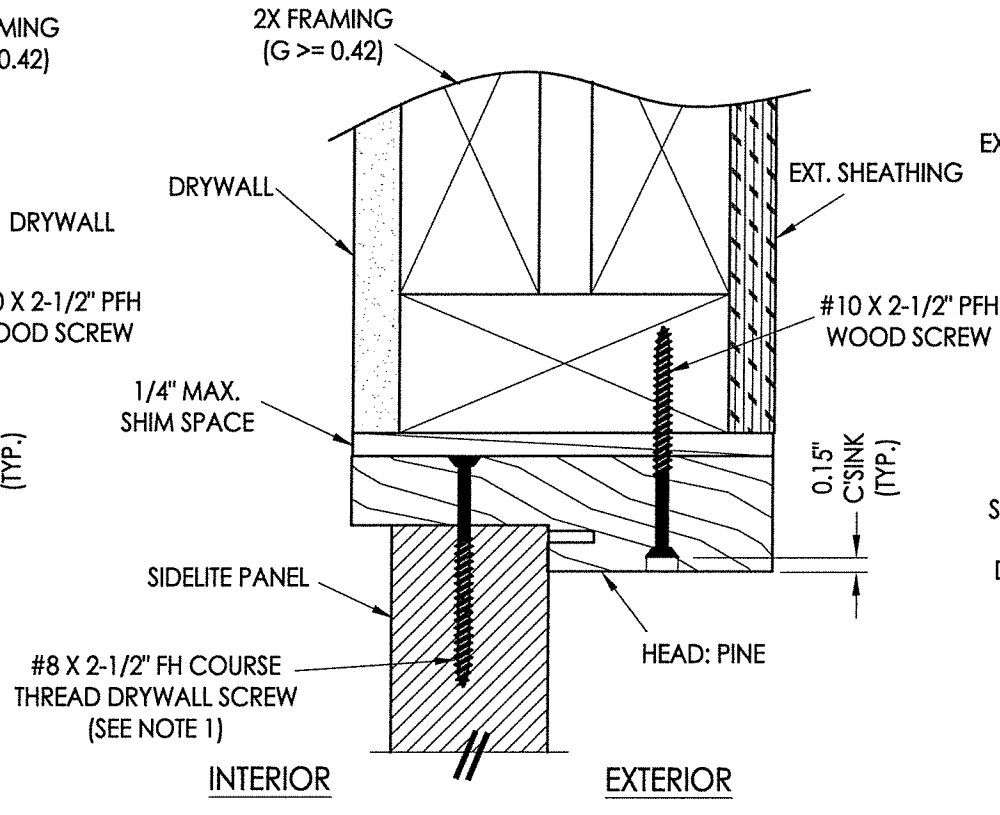
PRODUCT:	ENDURA FIBERGLASS DOOR		
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS		
DATE:	12/04/17		
SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	TX-4756		
SHEET	4 OF 7		
NO.	DATE	BY	REVISIONS
1	11/19/19	LFS	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE

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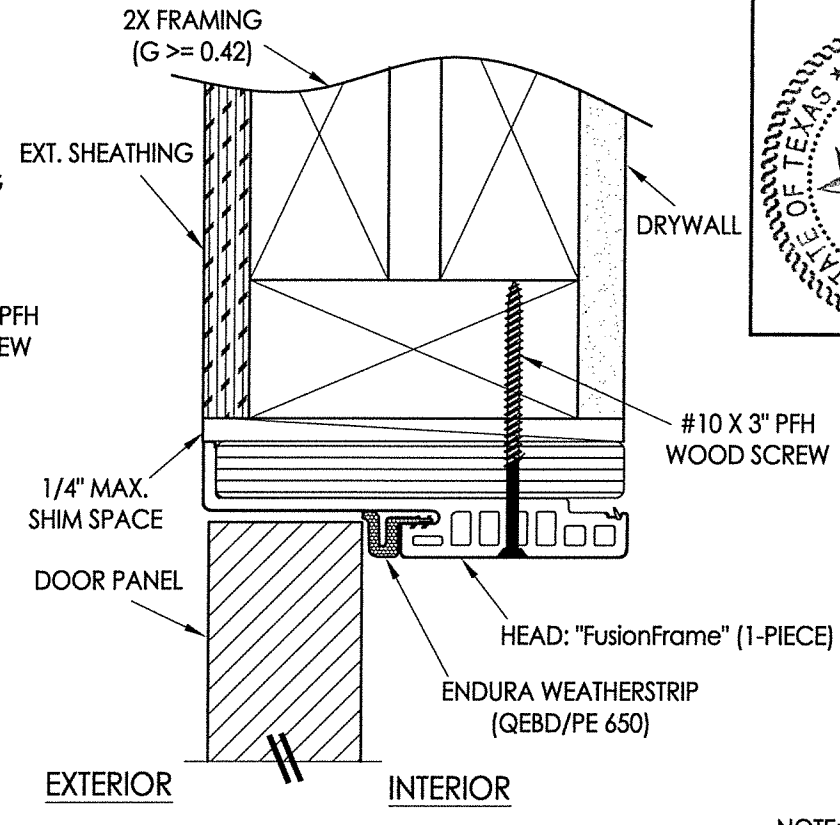
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1 VERTICAL CROSS SECTION
5 Outswing shown - inswing also approved

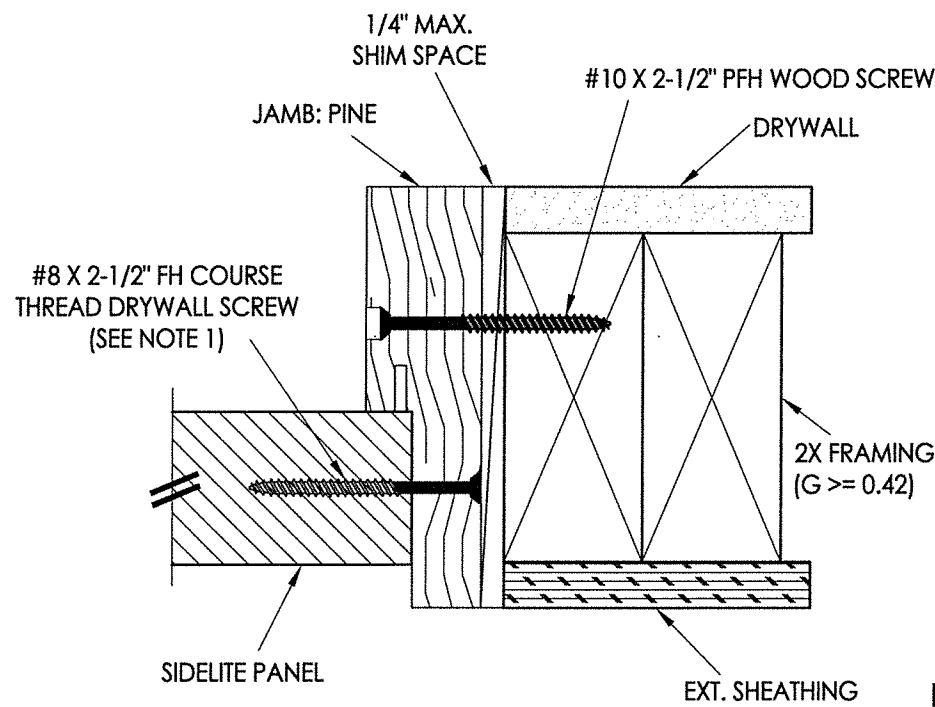
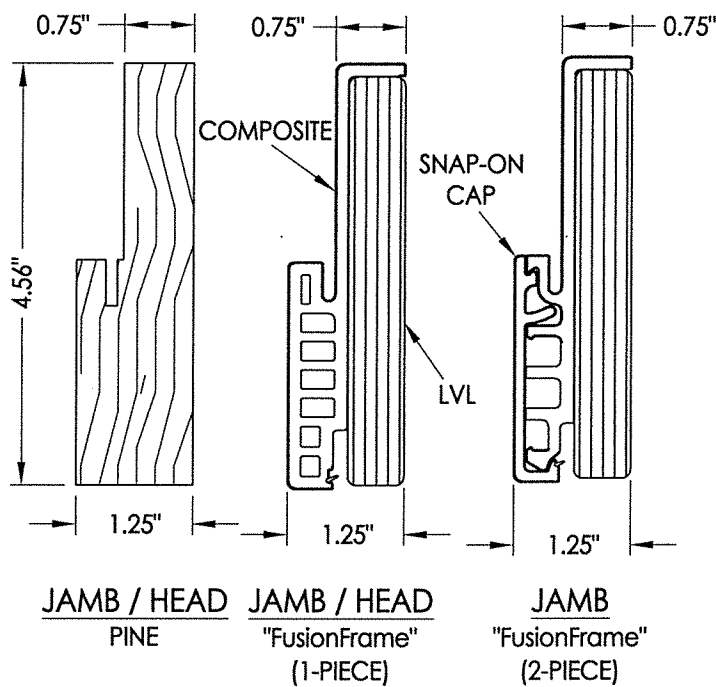


2 VERTICAL CROSS SECTION
5 Inswing shown - Outswing also approved

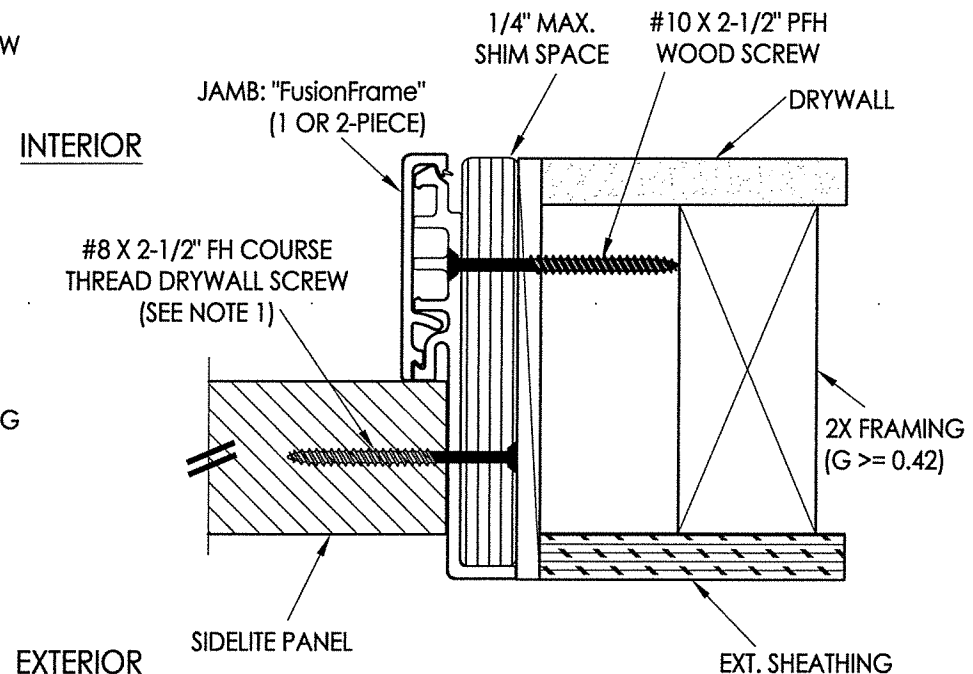


3 VERTICAL CROSS SECTION
5 Outswing shown - inswing also approved

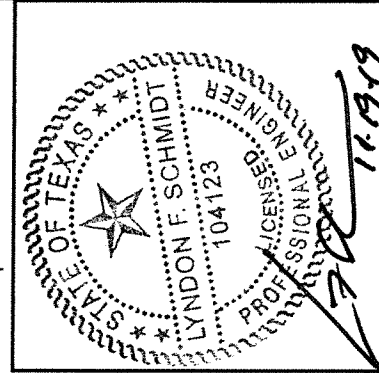
NOTE:
1. Spacing for sidelite screws: 4" from each end (2 total).



4 HORIZONTAL CROSS SECTION
5 Outswing shown - Inswing also approved



5 HORIZONTAL CROSS SECTION
5 Outswing shown - Inswing also approved



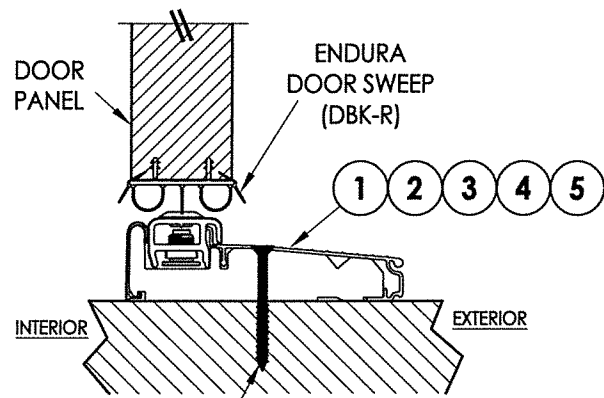
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	ENDURA
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

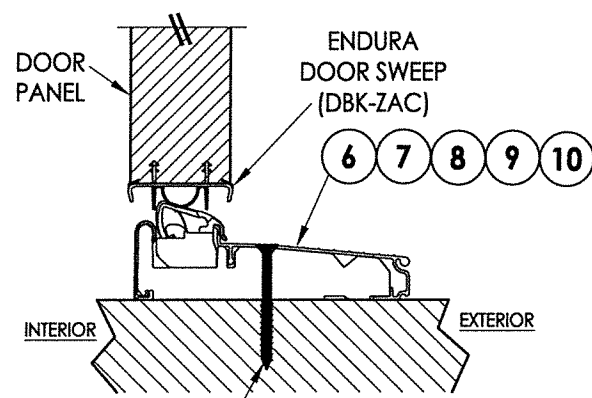
NO.	DATE	BY	REVISIONS
1	11/19/19	LFS	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE

DATE:	12/04/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4756
SHEET	5 OF 7



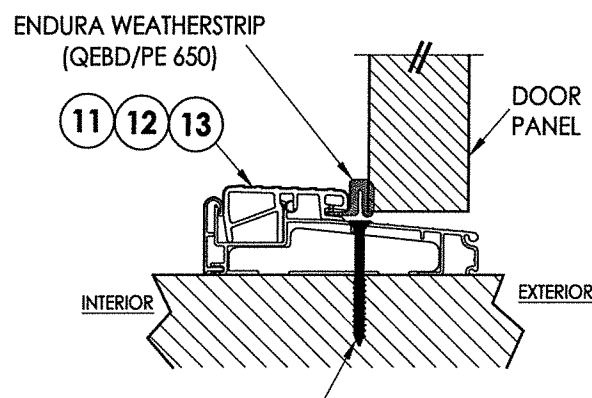
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1 VERTICAL CROSS SECTION
6 Inswing Adjustable Threshold



#10 X 2.5\"/>

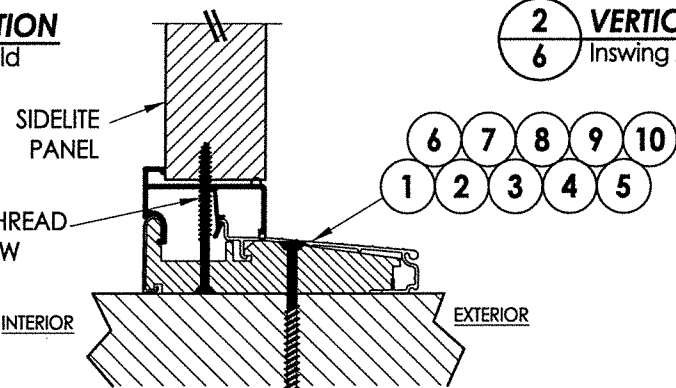
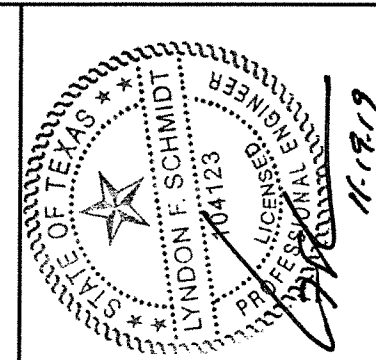
2 VERTICAL CROSS SECTION
6 Inswing Articulating Threshold



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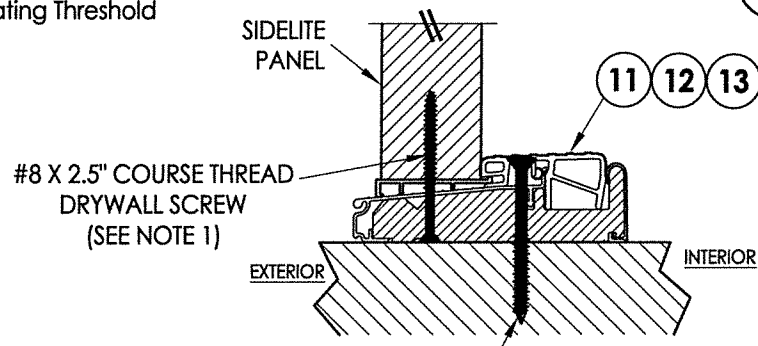
3 VERTICAL CROSS SECTION
6 Outswing Bump Threshold

NOTE:
1. Spacing for sidelite screws:
6\"/>



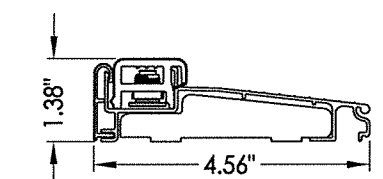
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4 VERTICAL CROSS SECTION
6 Inswing configuration

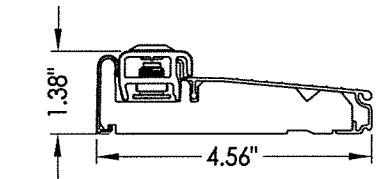


#10 X 3\"/>

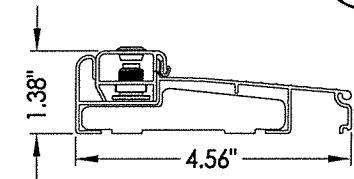
5 VERTICAL CROSS SECTION
6 Outswing configuration



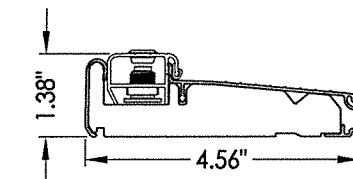
1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



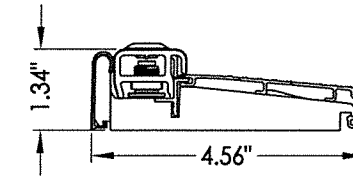
2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



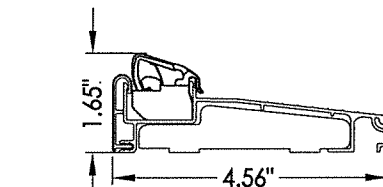
3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



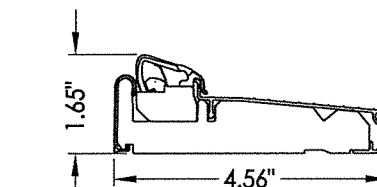
4 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



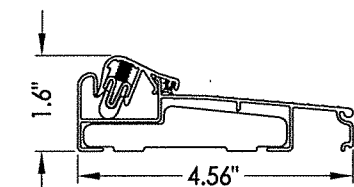
5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS
MAX. DESIGN PRESSURE = ±40 PSF



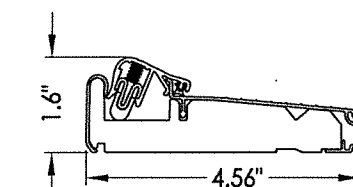
6 INSWING ARTICULATING THRESHOLD
ZACL4565
MAX. DESIGN PRESSURE = +50/-50 PSF



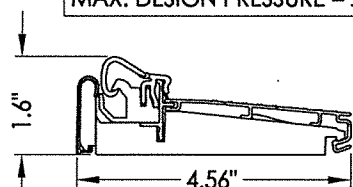
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN
MAX. DESIGN PRESSURE = +50/-50 PSF



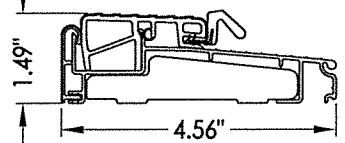
8 INSWING ARTICULATING THRESHOLD
ZACLA4565
MAX. DESIGN PRESSURE = +50/-50 PSF



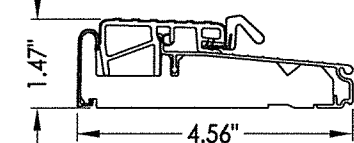
9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN
MAX. DESIGN PRESSURE = +50/-50 PSF



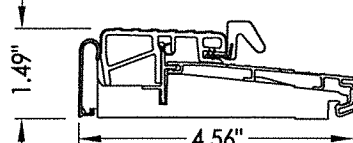
10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS
MAX. DESIGN PRESSURE = ±40 PSF



11 OUTSWING THRESHOLD
ZOBL4565

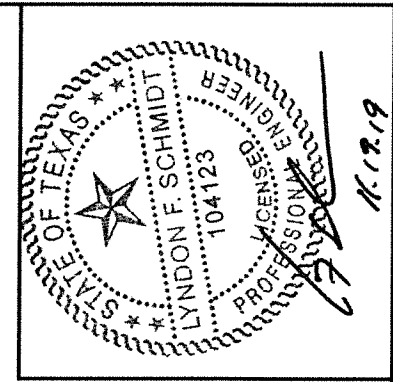
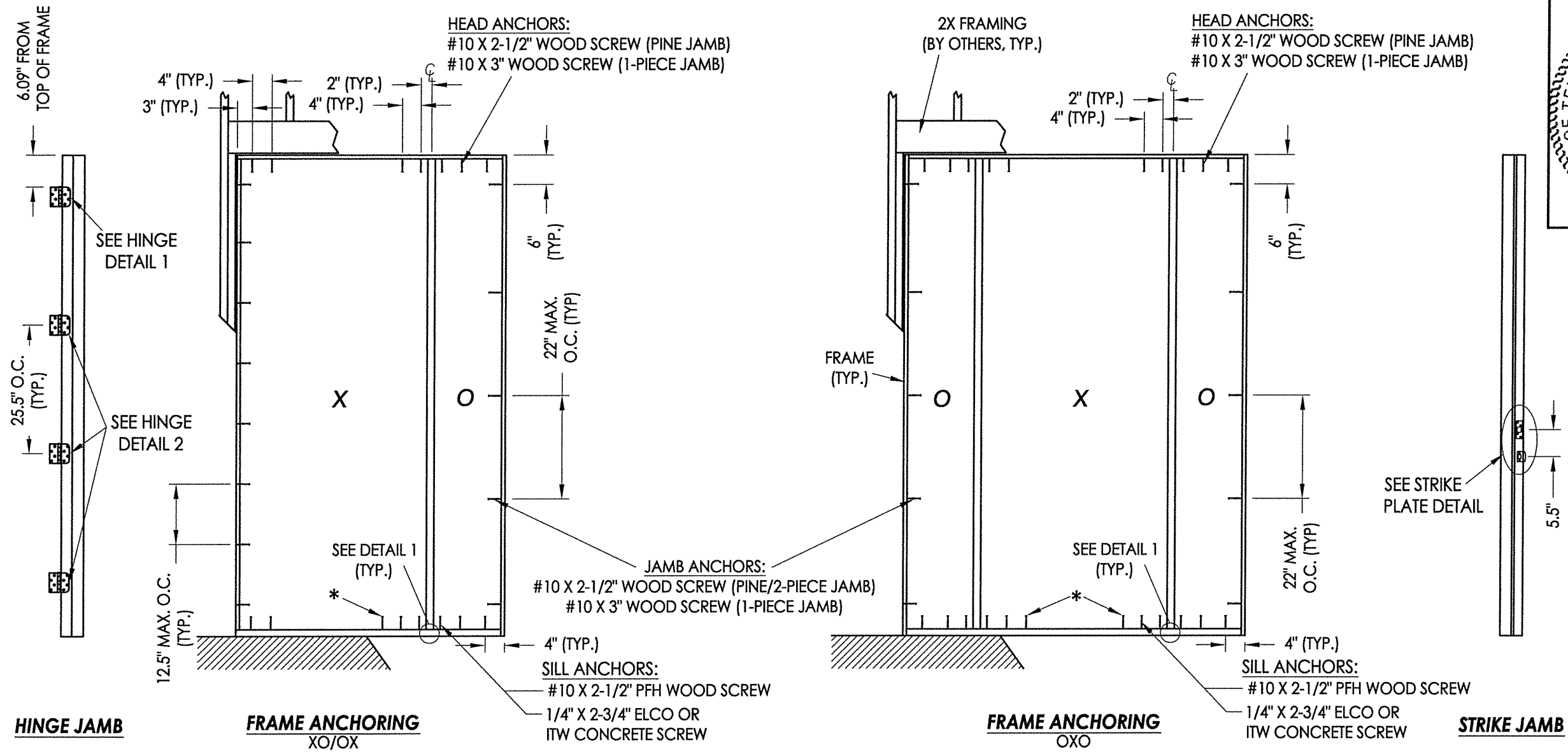


12 OUTSWING THRESHOLD
ZOB4565FN



13 OUTSWING THRESHOLD
ZOB4565RDS

Documents Prepared By: Lyndon F. Schmidt, P.E. TEXAS P.E. #104123		 BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL, 33595 Phone No.: 813.659.9197	
PRODUCT:	ENDURA	PART OR ASSEMBLY:	FIBERGLASS DOOR
		NO.	DATE
		1	11/19/19
			ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
			BY
			REVISIONS
DATE:	12/04/17	DWG. BY:	JK
SCALE:	N.T.S.	CHK. BY:	LFS
DRAWING NO.:	TX-4756		
SHEET	6	OF	7



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

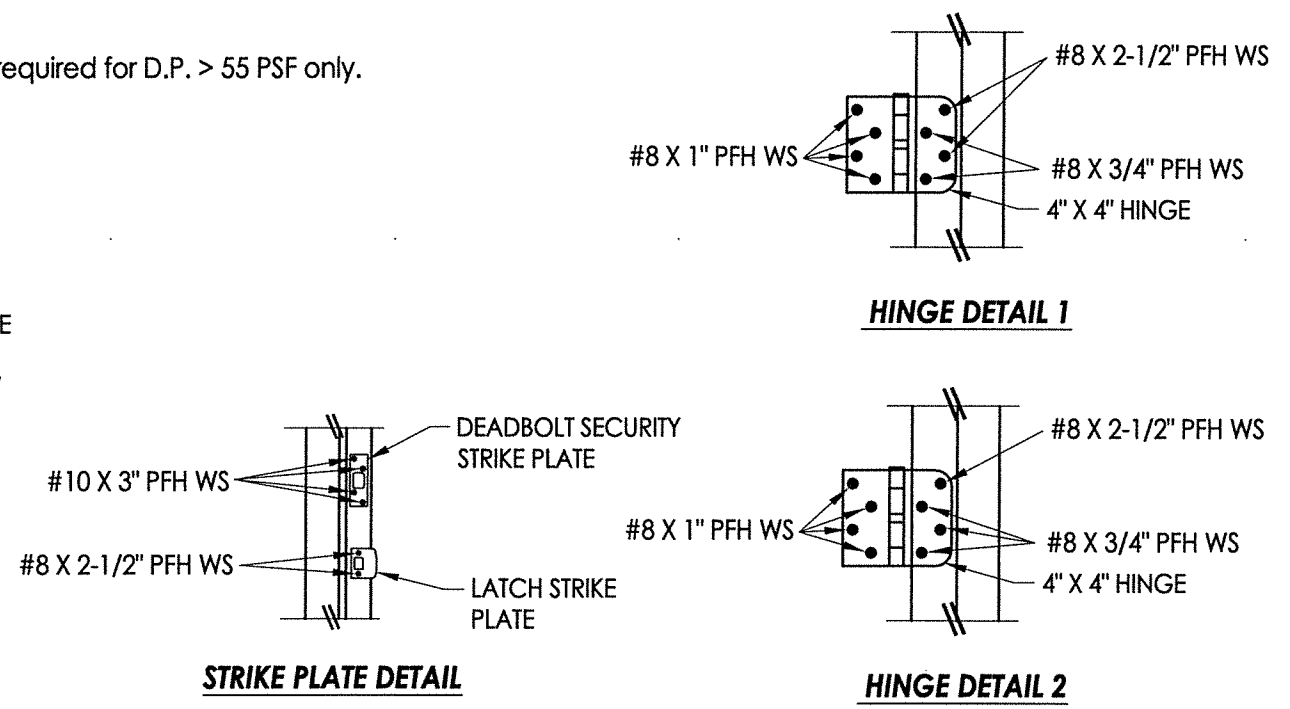
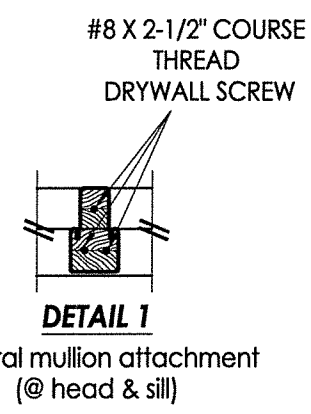
JAMB NOTES:
 THE PINE OR "FusionFrame" 1-PIECE JAMB MAY BE INSTALLED @ THE HEAD OR SIDE JAMB.
 THE FusionFrame" 2-PIECE JAMB MAY BE INSTALLED @ THE SIDE JAMBS ONLY.

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"

* NOTE: These additional anchors required for D.P. > 55 PSF only.



PRODUCT:	ENDURA
PART OR ASSEMBLY:	FRAME ANCHORING
NO.	DATE
BY	REVISIONS
1	11/19/19 ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
DATE: 12/04/17	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4756	
SHEET 7 OF 7	