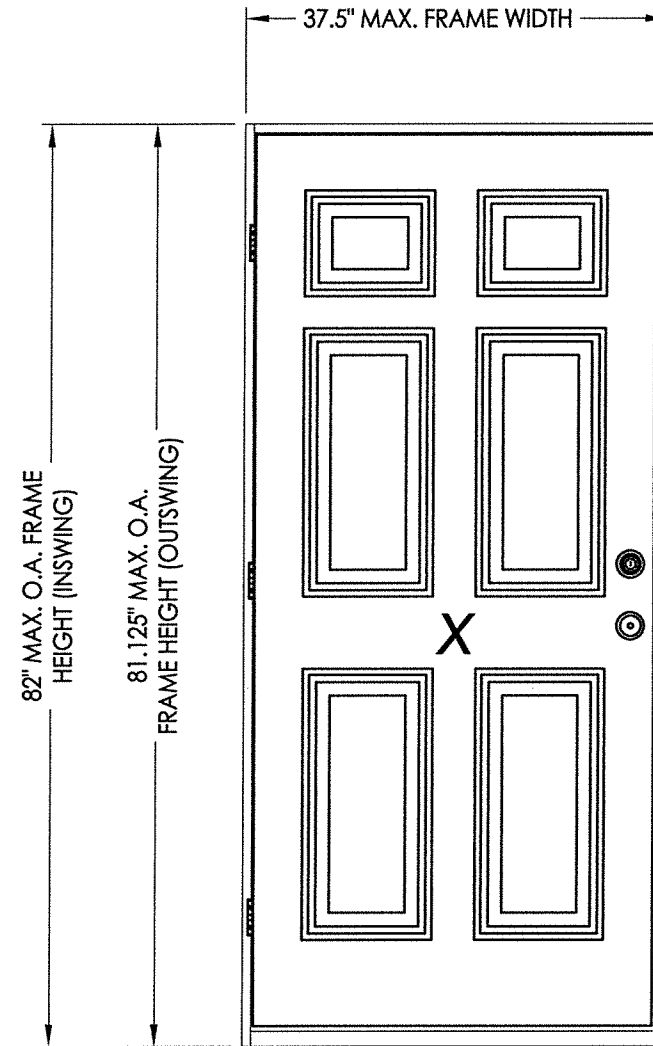




Opaque Steel Door

"NON-IMPACT"
INSWING / OUTSWING



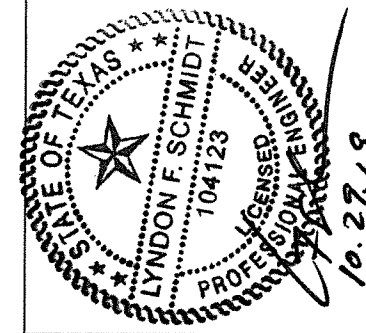
EVALUATED FOR USE IN THE STATE OF TEXAS

The Steel 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	Horizontal & vertical cross sections
4	Vertical cross sections
5	Frame anchoring

CONFIG.	FRAME TYPE	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	PINE	+50.0	-50.0	+70.0	-70.0
X	"FusionFrame"	+50.0	-50.0	+60.0	-65.0



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

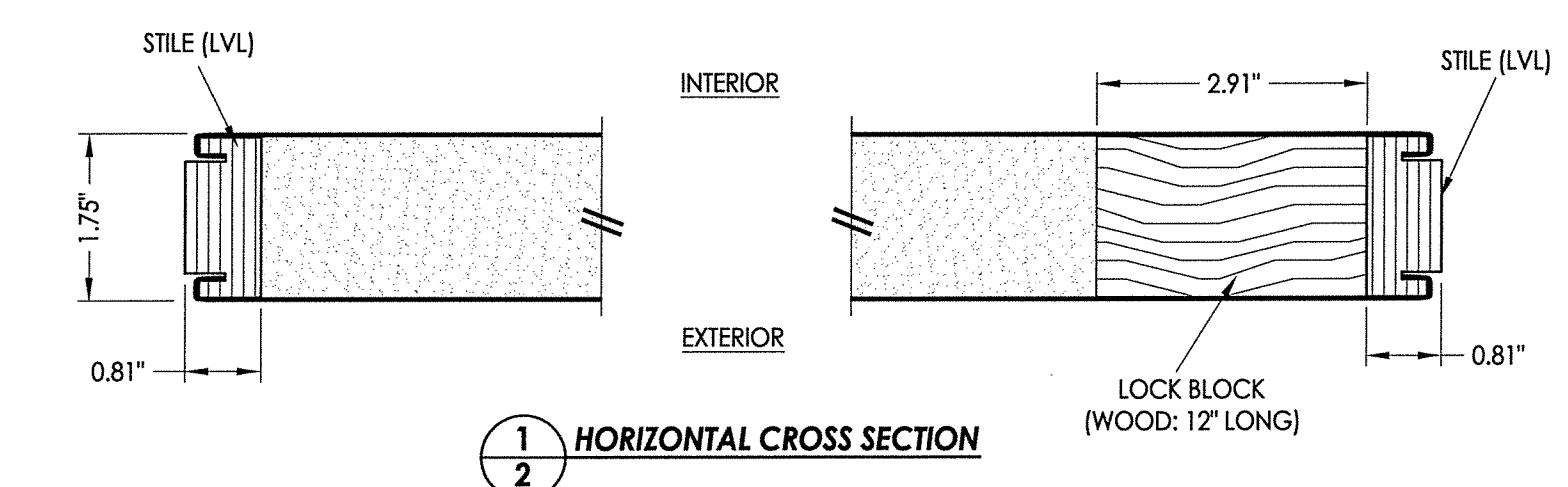
PRODUCT: ENDURA

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

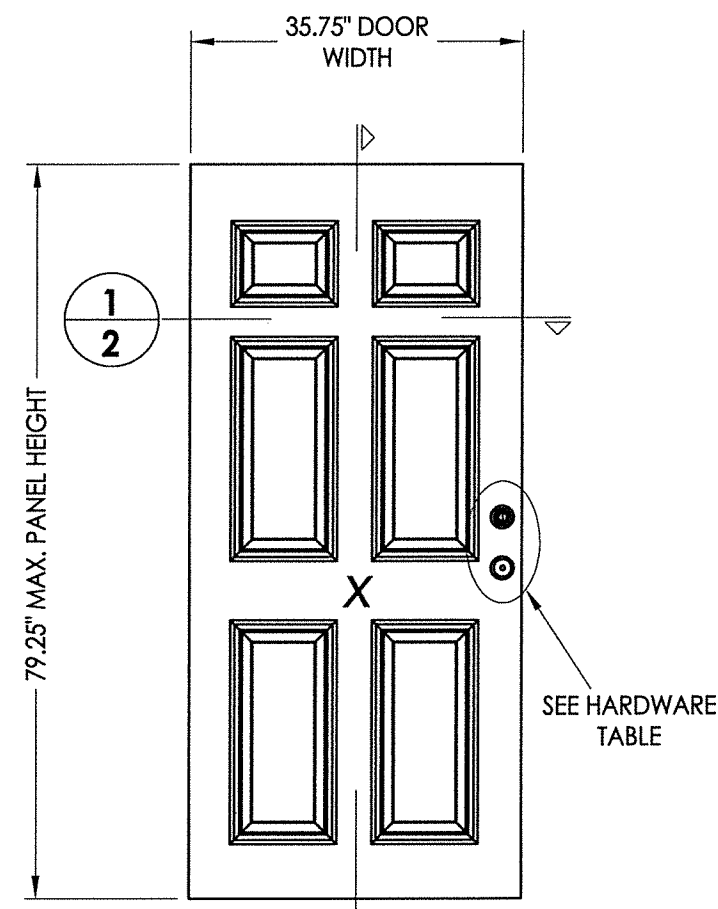
NO.	DATE	REVISIONS
1	10/28/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE

DATE: 11/08/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4651
SHEET 1 OF 5

R:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-850 Masonite ST Opaque (L.K.DB)\C - Drawings\TX-4651.54.dwg, 2.7



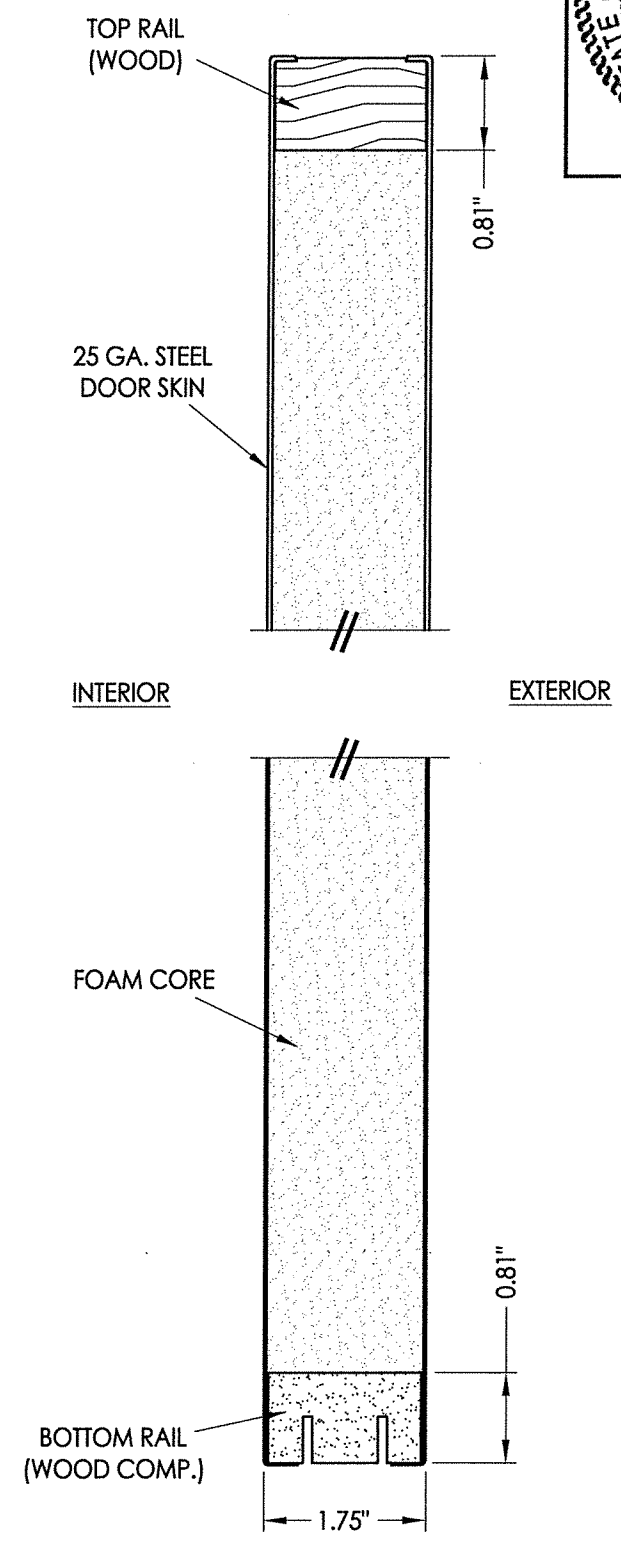
1
2 HORIZONTAL CROSS SECTION



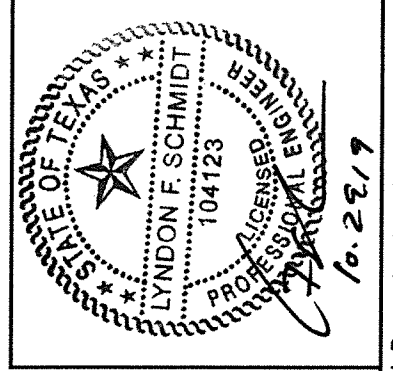
40 **2**
2 DOOR PANEL
Masonite
Steel (Wood Edge)

DOOR SKIN: 25 GA. STEEL (0.020" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)

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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TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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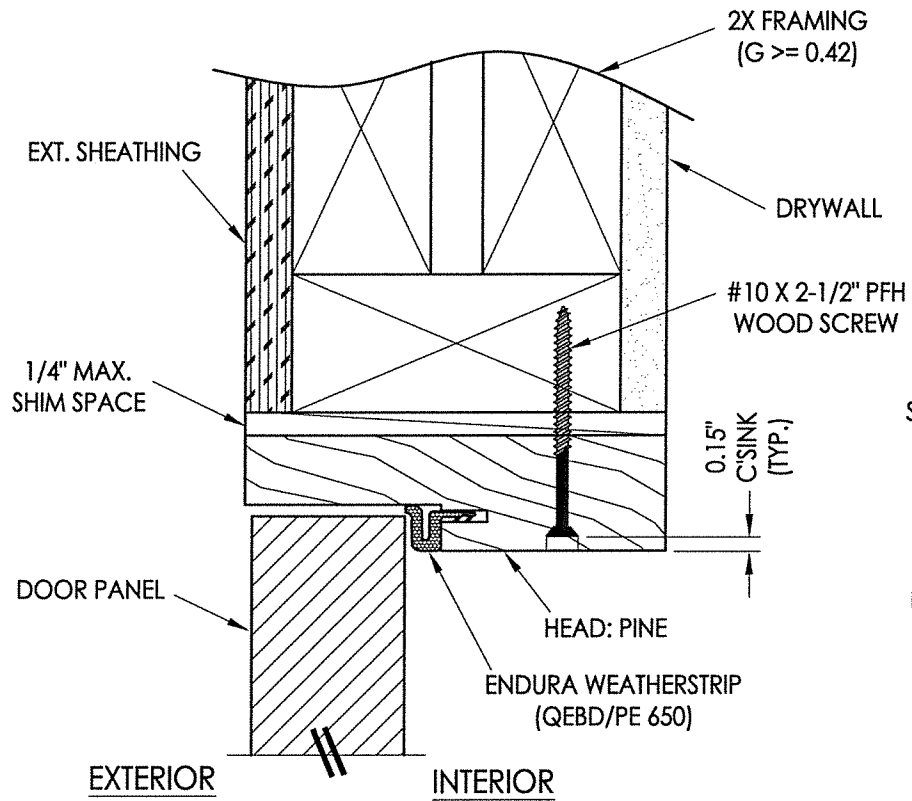
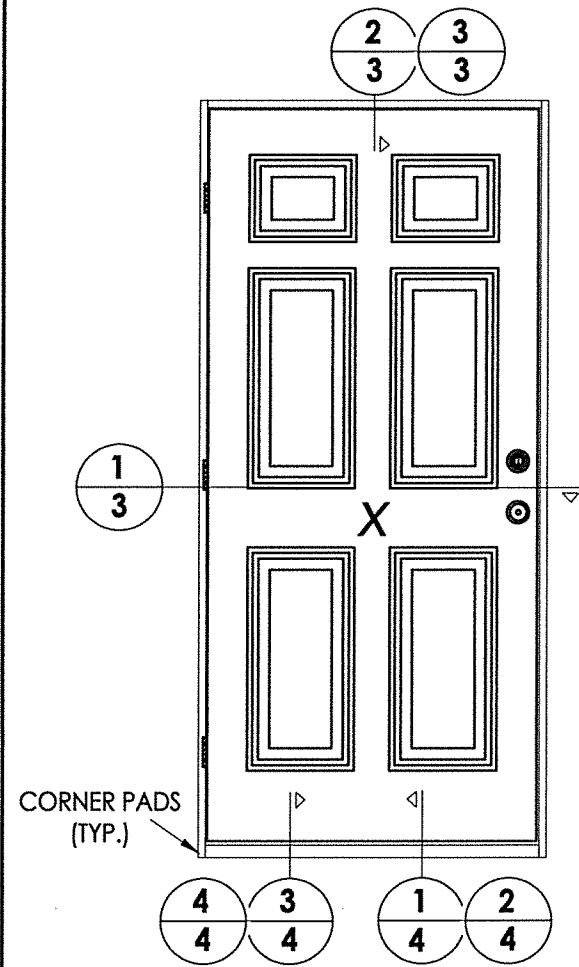
PRODUCT: ENDURA

PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS	BY
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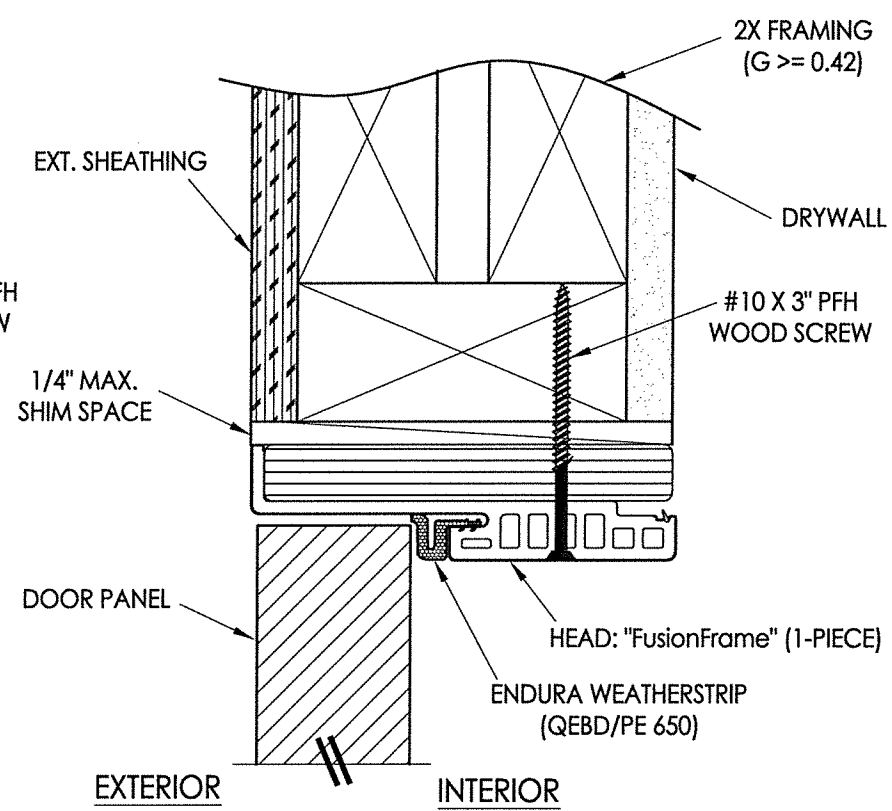
DATE: 11/08/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4651
SHEET 2 OF 5

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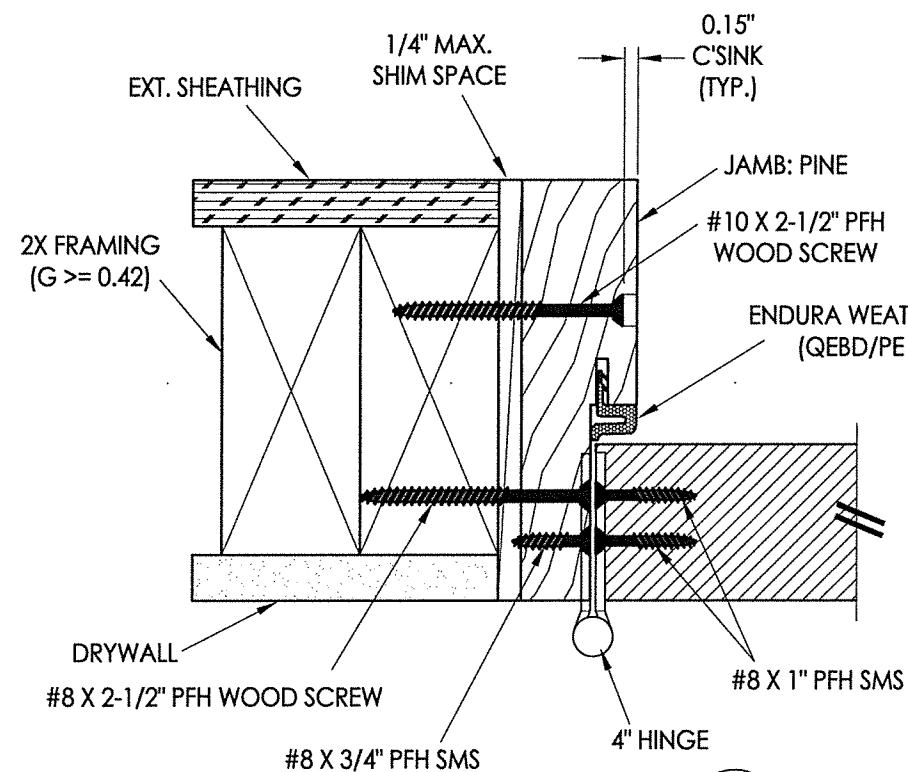
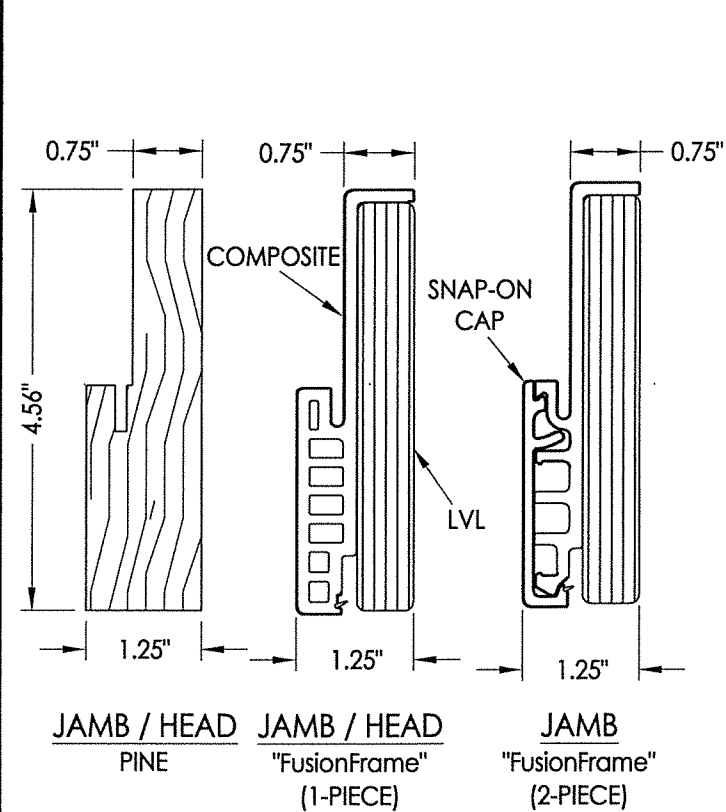
2 VERTICAL CROSS SECTION

3 Outswing shown - inswing also approved



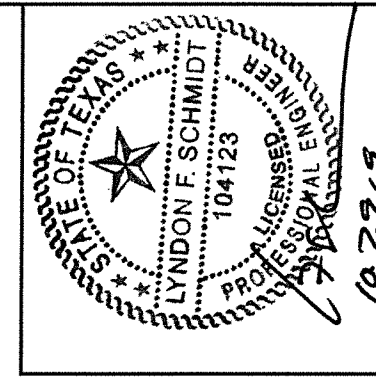
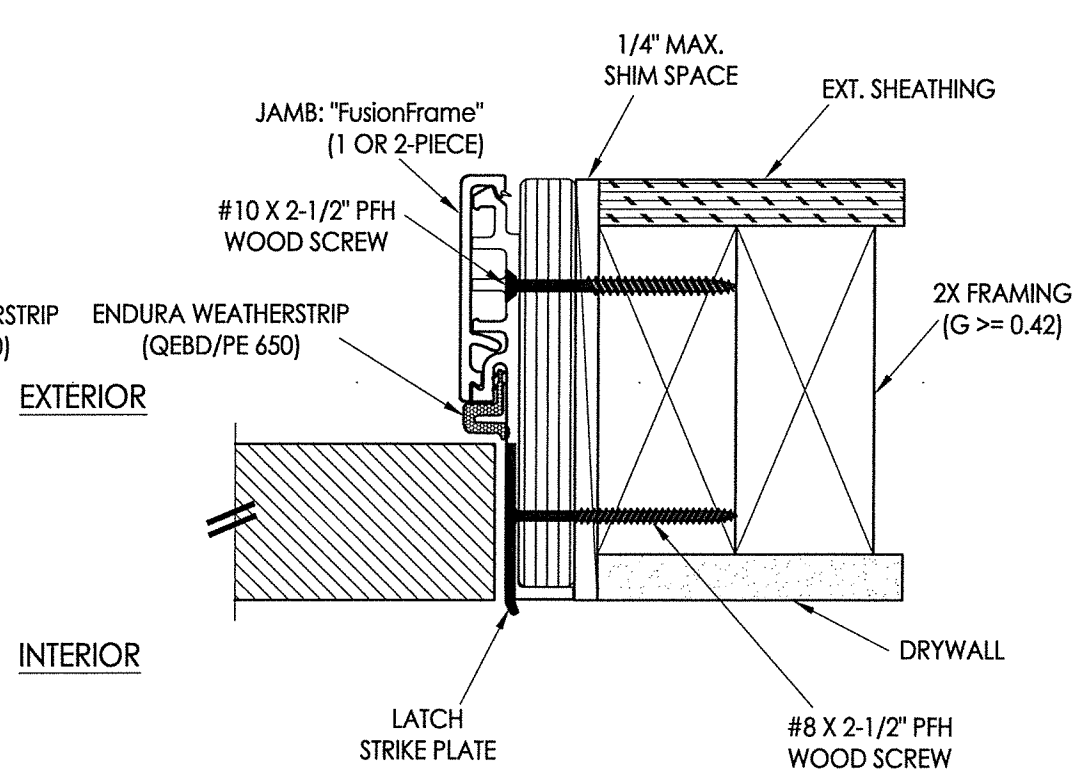
3 VERTICAL CROSS SECTION

3 Outswing shown - inswing also approved



1 HORIZONTAL CROSS SECTION

3 Inswing shown - Outswing also approved



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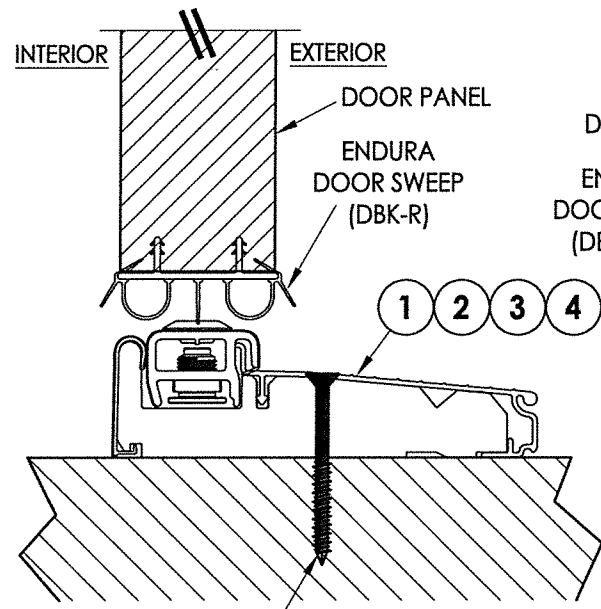
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	ENDURA
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS
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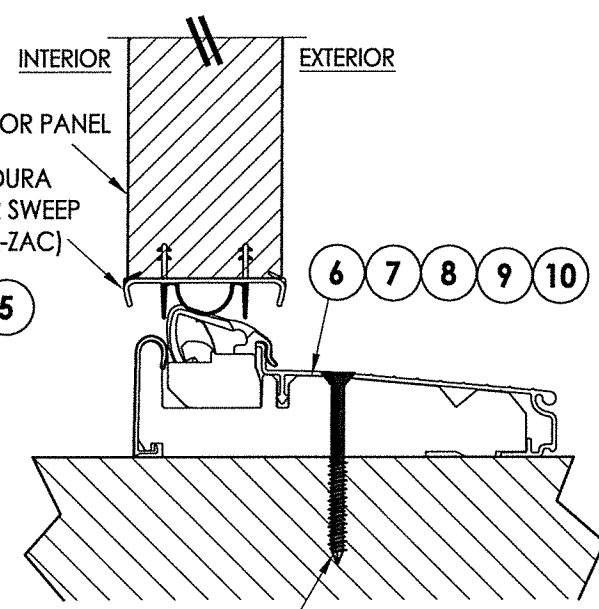
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4651
SHEET	3 of 5

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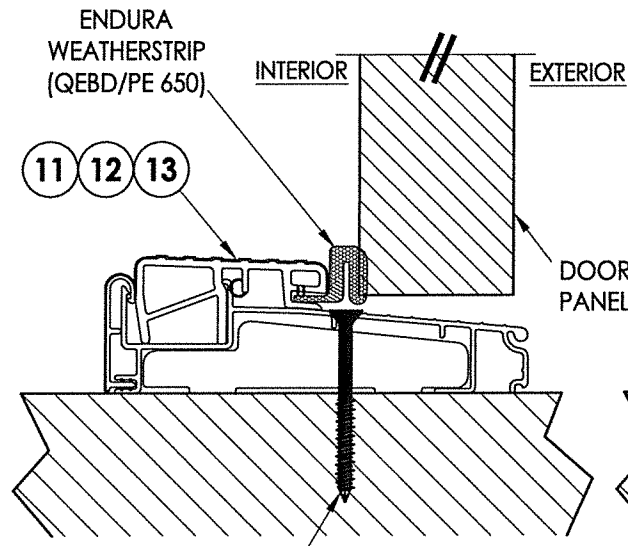
#10 X 2.5" PFH WOOD SCREW OR
1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

1 VERTICAL CROSS SECTION
4 Inswing Adjustable Threshold



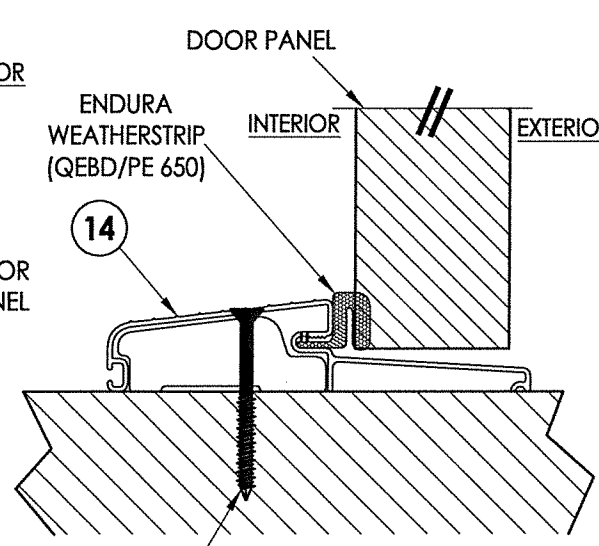
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1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

2 VERTICAL CROSS SECTION
4 Inswing Articulating Threshold



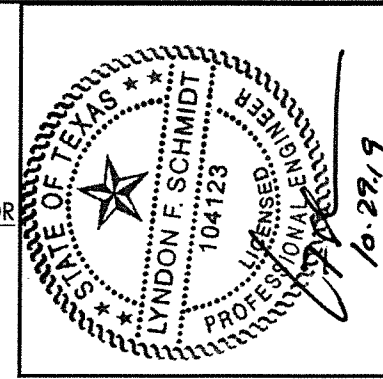
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1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW

3 VERTICAL CROSS SECTION
4 Inswing Adjustable Threshold



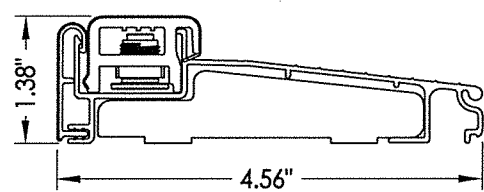
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4 VERTICAL CROSS SECTION
4 Inswing Articulating Threshold

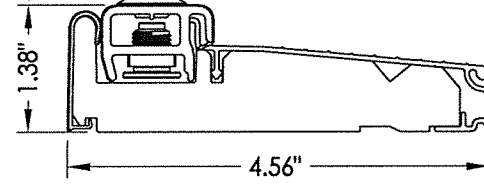


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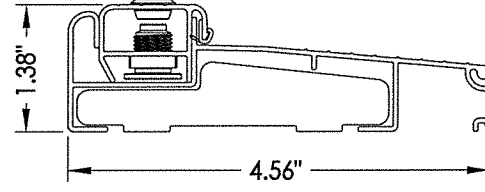
RW BUILDING CONSULTANTS, INC.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852



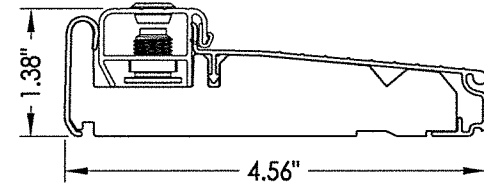
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ZAIL4565



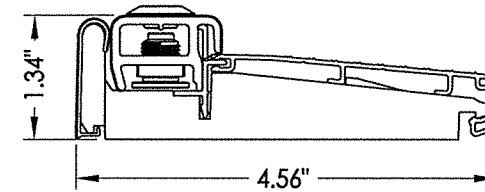
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ZAI4565FN



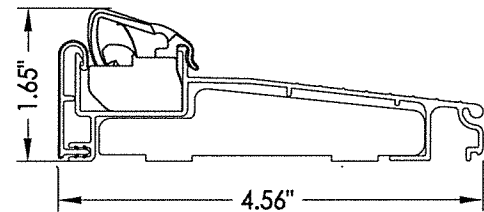
3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



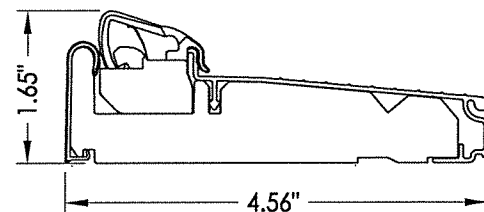
4 INSWING ADJUSTABLE THRESHOLD
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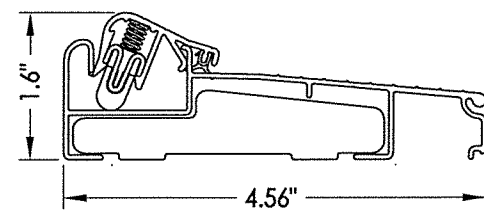
5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS



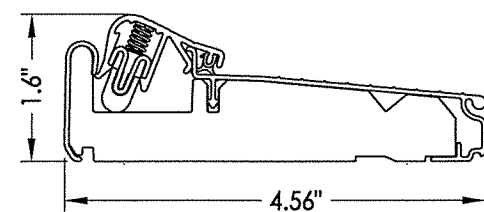
6 INSWING ARTICULATING THRESHOLD
ZACL4565



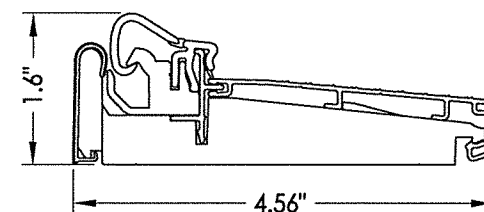
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN



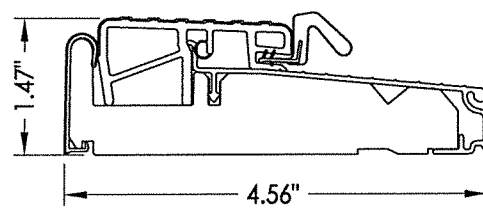
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ZACLAA4565



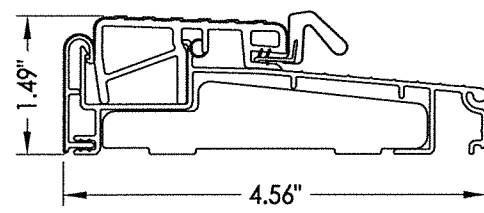
9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



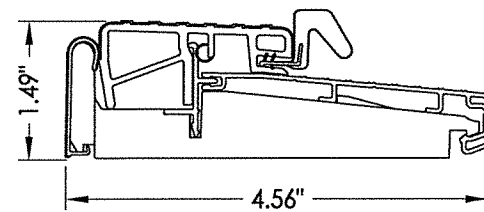
10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS



11 OUTSWING THRESHOLD
ZOB4565FN

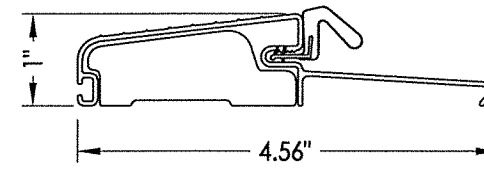


12 OUTSWING THRESHOLD
ZOBL4565



13 OUTSWING THRESHOLD
ZOB4565RDS

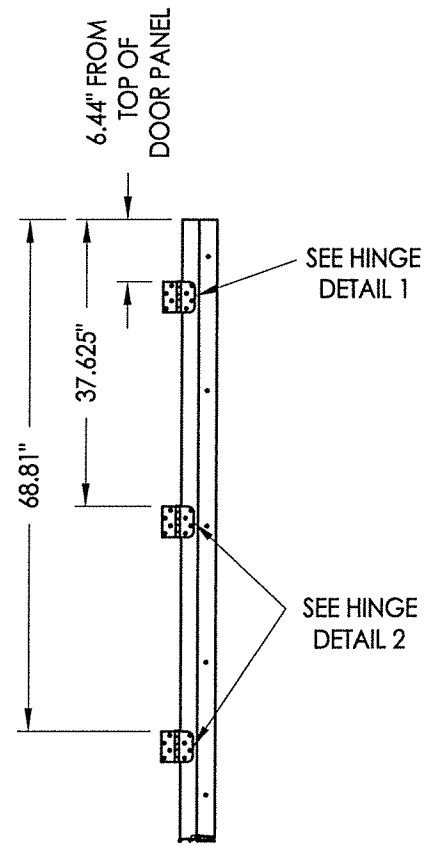
MAX. DESIGN PRESSURE = ±55 PSF



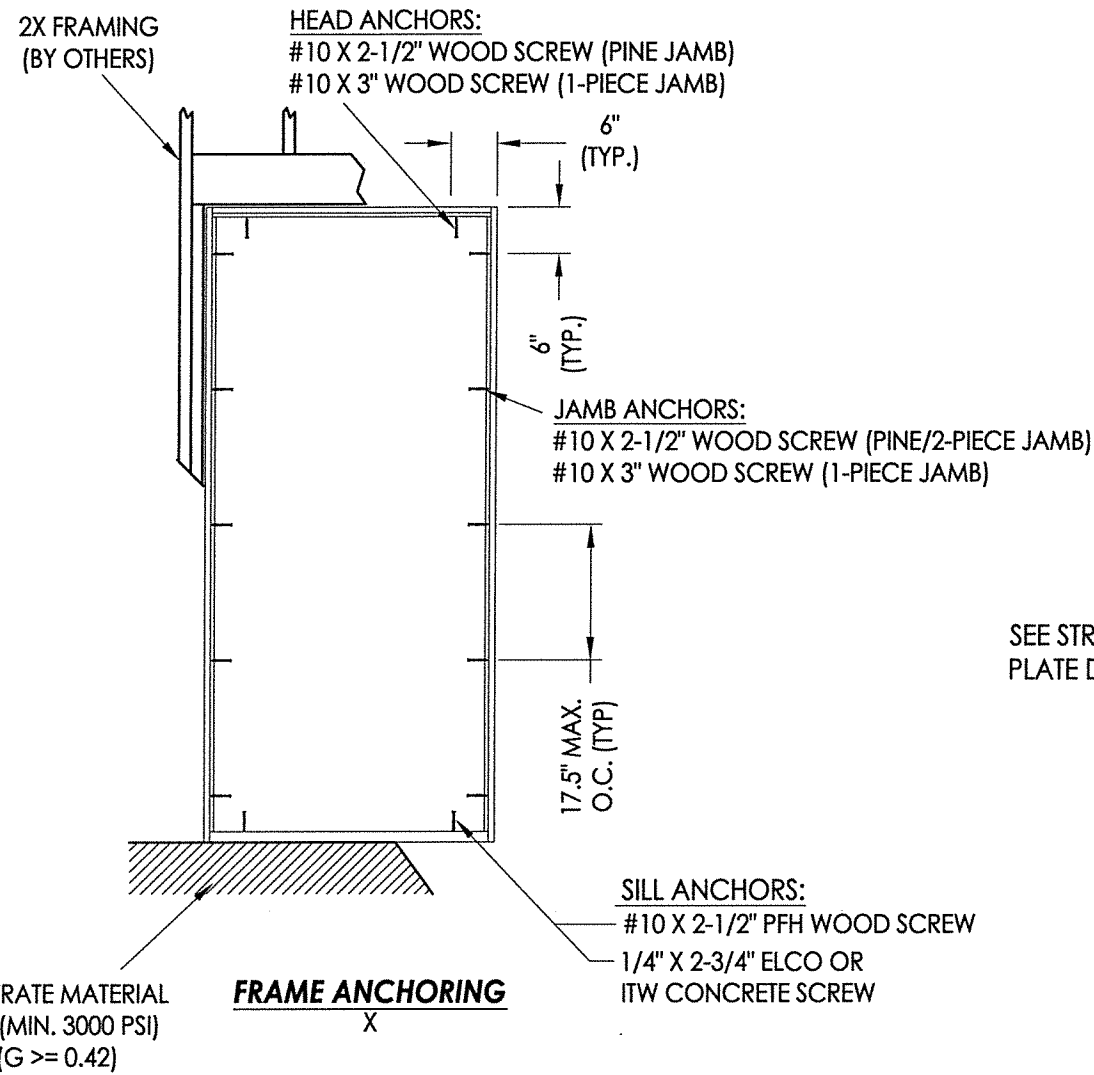
14 OUTSWING THRESHOLD
FOB4566

PRODUCT: ENDURA		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
1	10/28/19	LFS	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE
DATE: 11/08/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4651			
SHEET 4 OF 5			

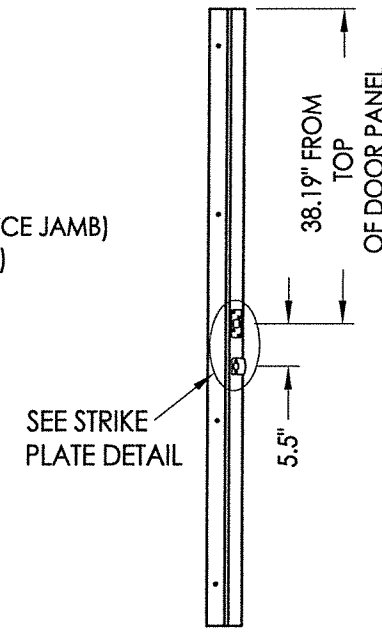
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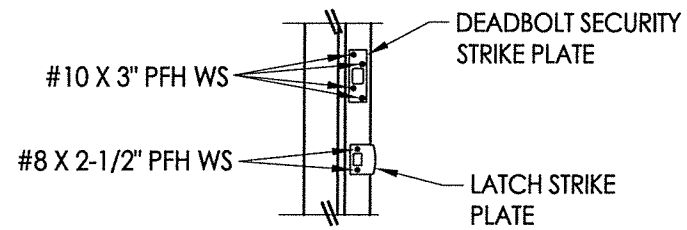
HINGE JAMB



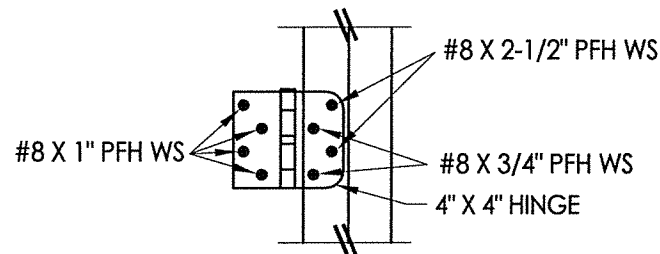
FRAME ANCHORING



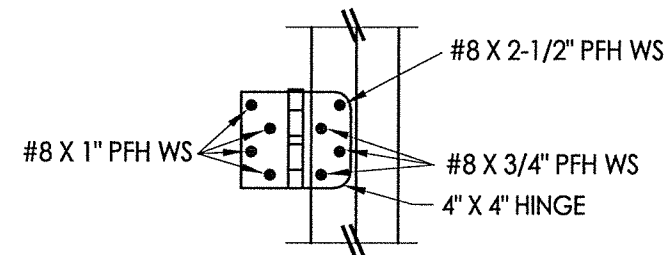
STRIKE JAMB



STRIKE PLATE DETAIL



HINGE DETAIL 1

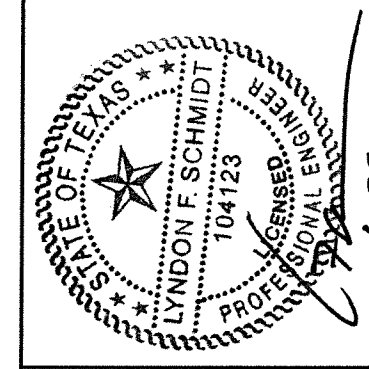


HINGE DETAIL 2

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"	1-1/2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	1"	4"



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
1	10/28/19	ADD "FusionFrame" OPTION & UPDATE TO 2018 IBC/IRC CODE

DATE: 11/08/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4651
SHEET 5 OF 5