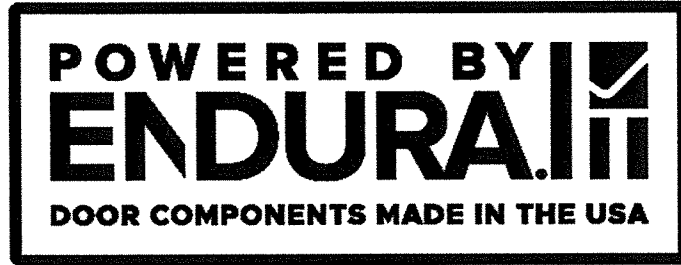


Z:\Clients\Endura PERMANENT\B - Texas Dept of Ins\TDI - DR-852\_IELD-WEN Steel Opaque (L,K,DB)\C - Drawings\TX-4639.42.dwg



# Opaque Steel Door

"NON-IMPACT"  
INSWING / OUTSWING

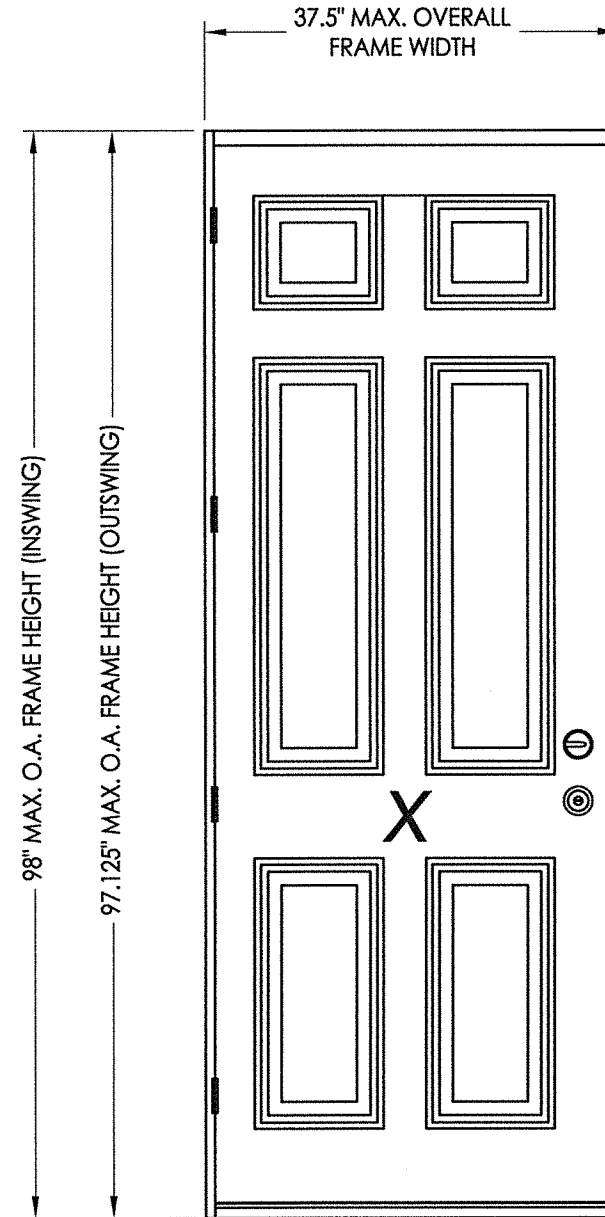
EVALUATED FOR USE IN THE STATE OF TEXAS

## TDI DR-852

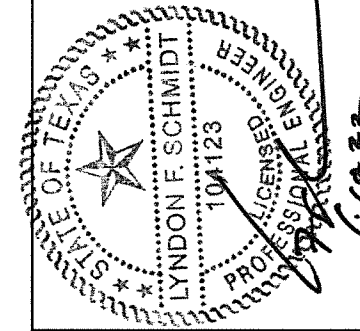
The Steel Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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 1609.1.2 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.	MODEL	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
X	INSWING	+45.0	-50.0
X	OUTSWING	+40.0	-40.0



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

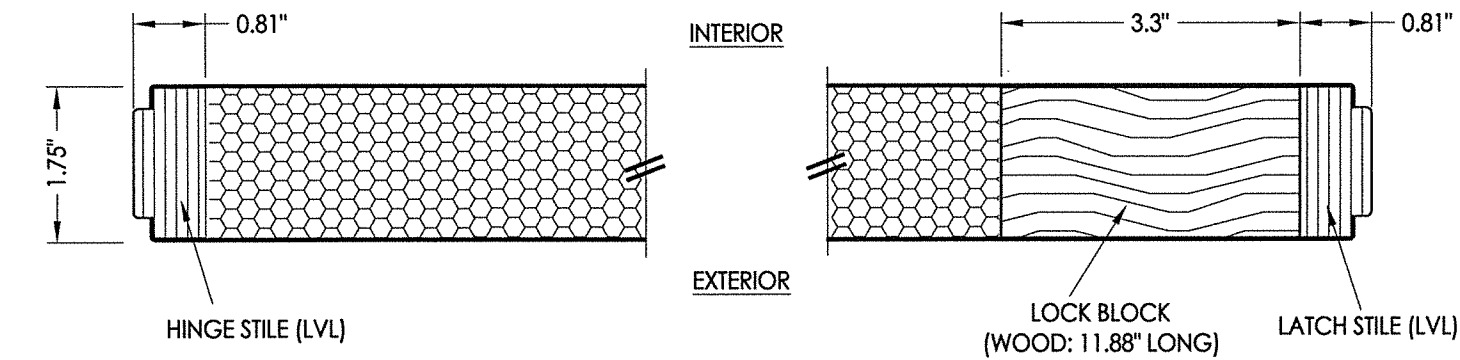
PRODUCT: ENDURA

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

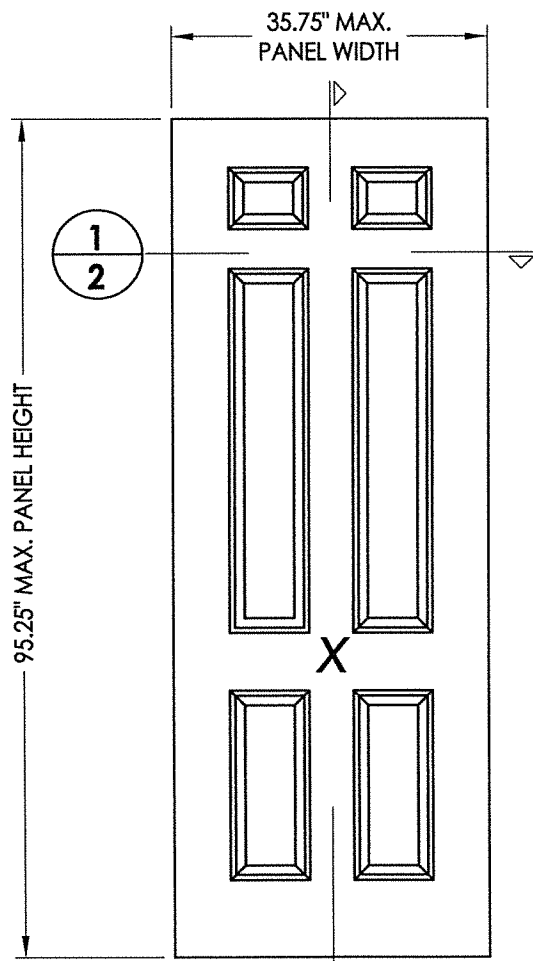
NO.	DATE	REVISIONS	BY
1	11/10/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 10/27/16  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4642  
SHEET 1 OF 5

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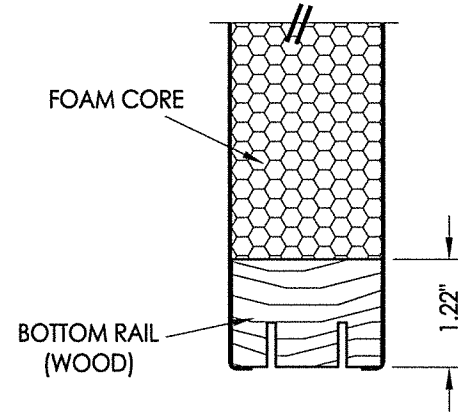
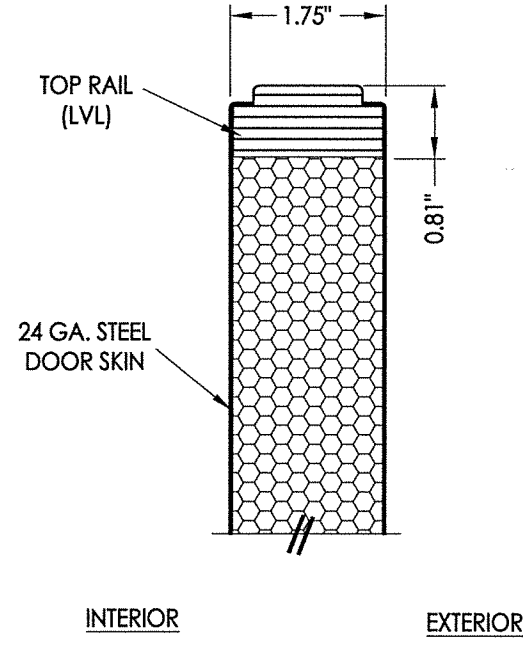


**1**  
**2** HORIZONTAL CROSS SECTION

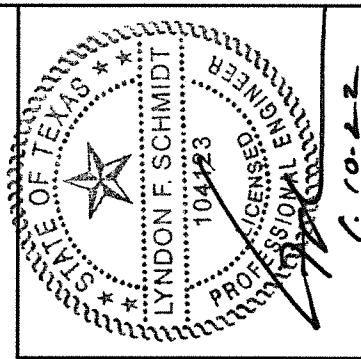


**2**  
**2**  
**DOOR PANEL**  
JELD-WEN  
Steel (Wood Edge)

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



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



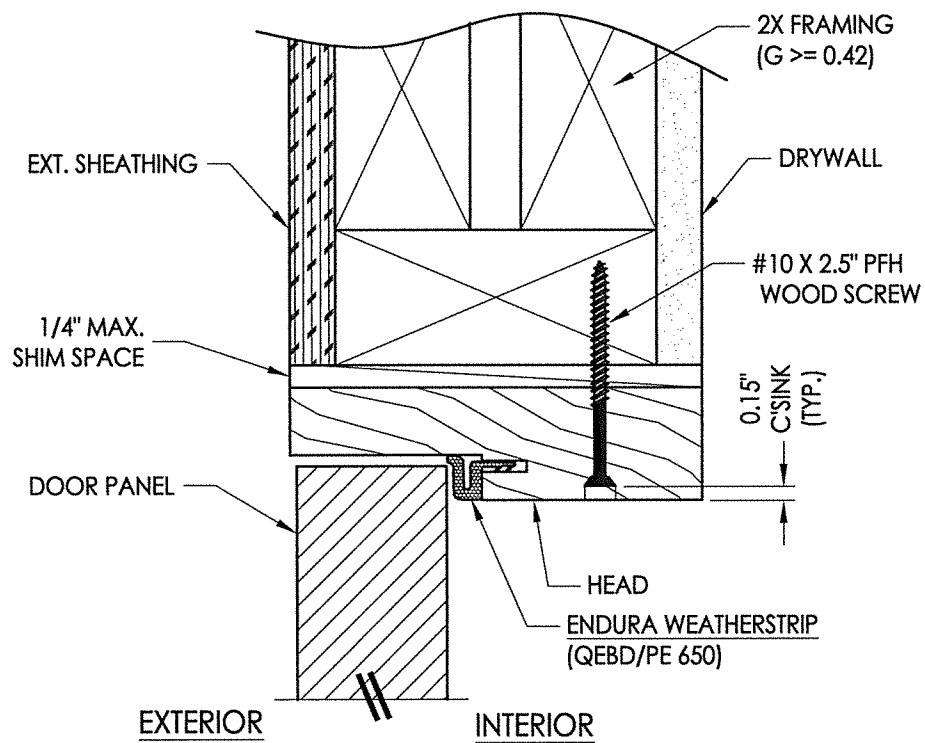
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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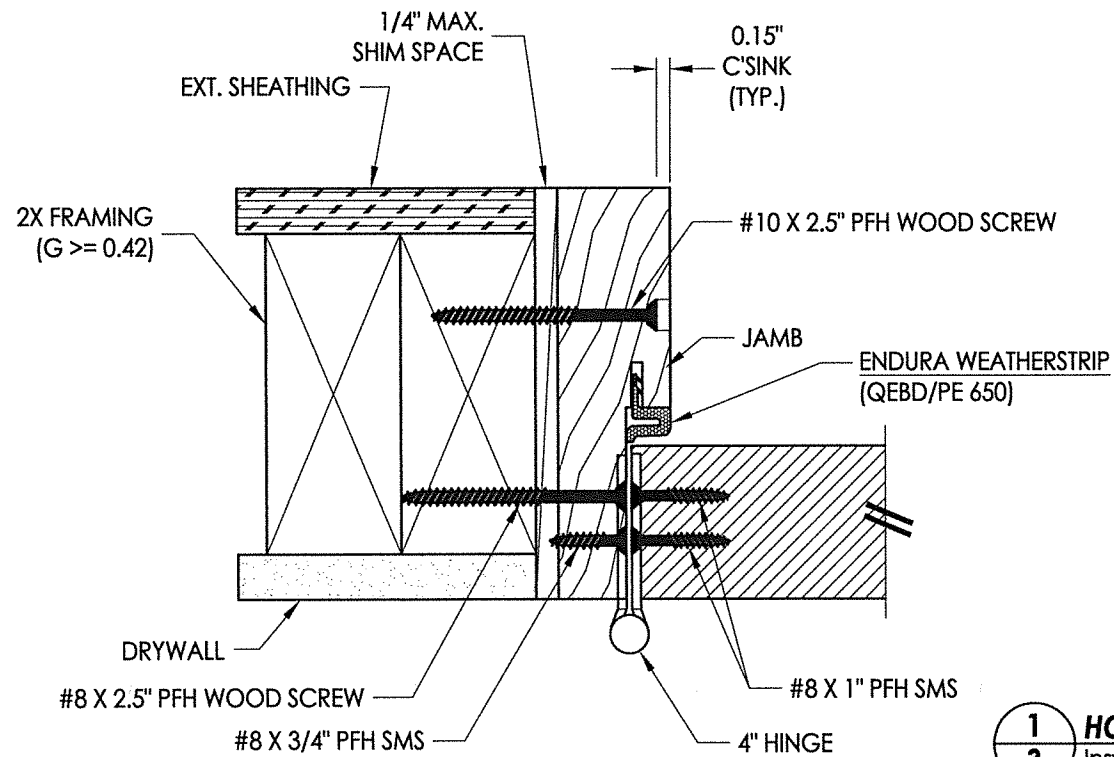
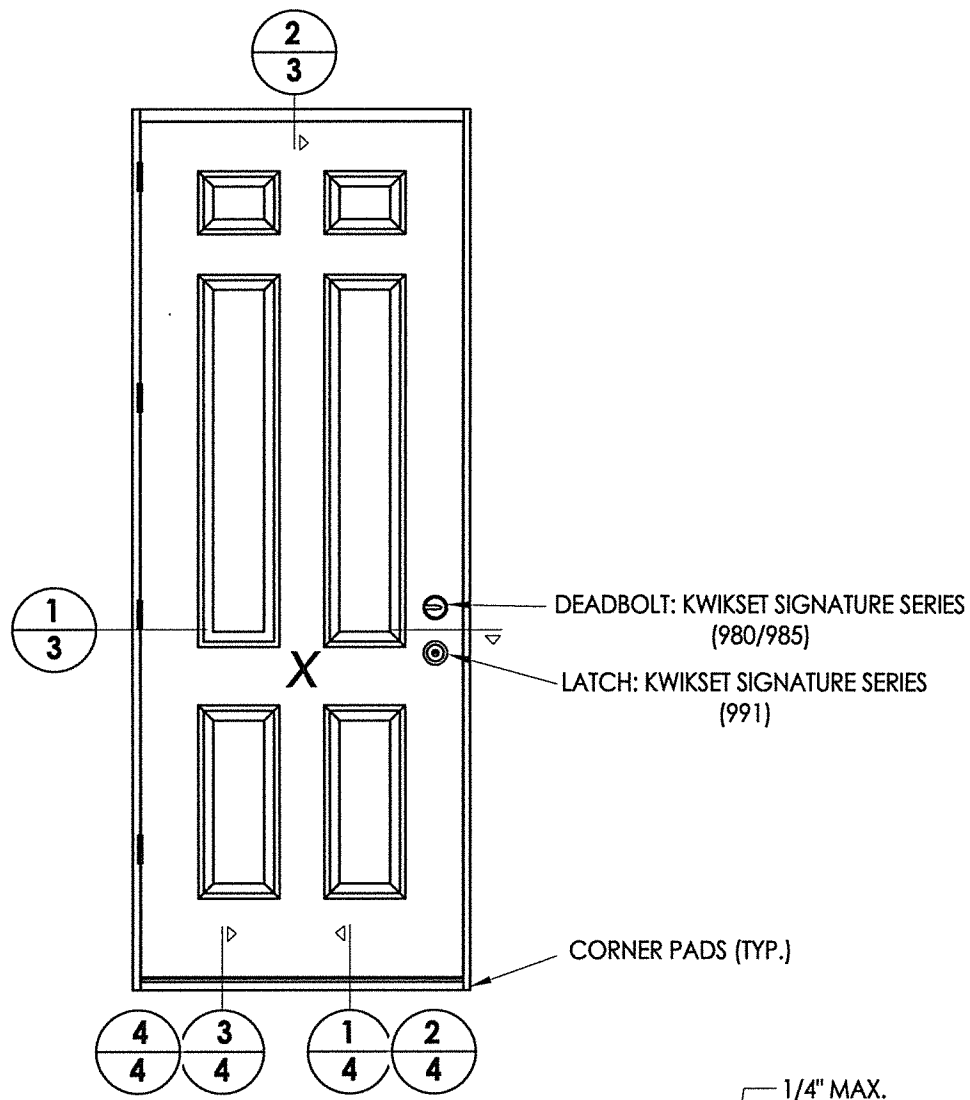
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	ENDURA	
PART OR ASSEMBLY:	DOOR PANEL DETAILS	
NO.	DATE	BY
1	11/10/21	LFS
UPDATE TO 2018 IBC/IRC CODE		
REVISIONS		
DATE:	10/27/16	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4642	
SHEET	2	OF 5

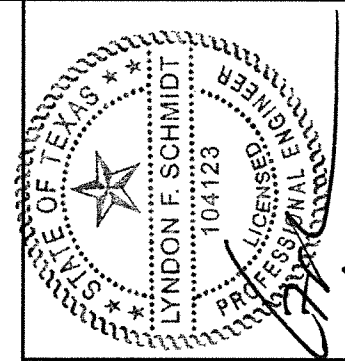
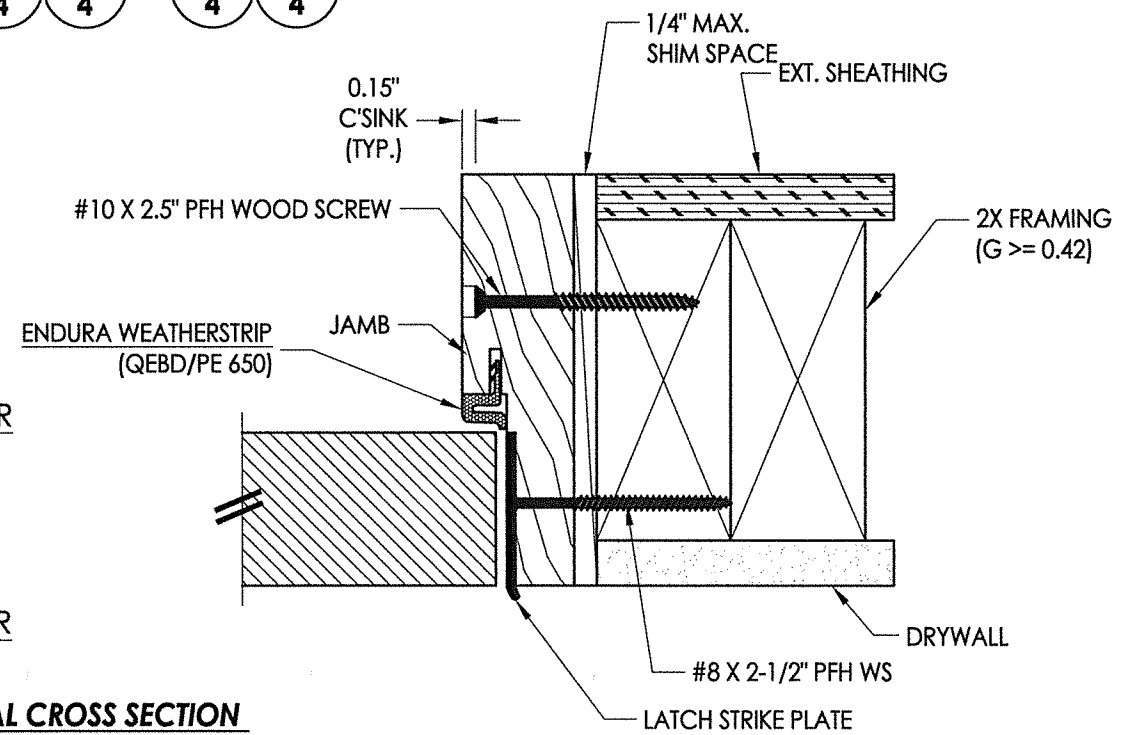
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**2 VERTICAL CROSS SECTION**  
3 Outswing shown - inswing also approved



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



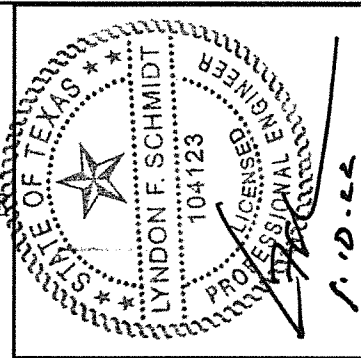
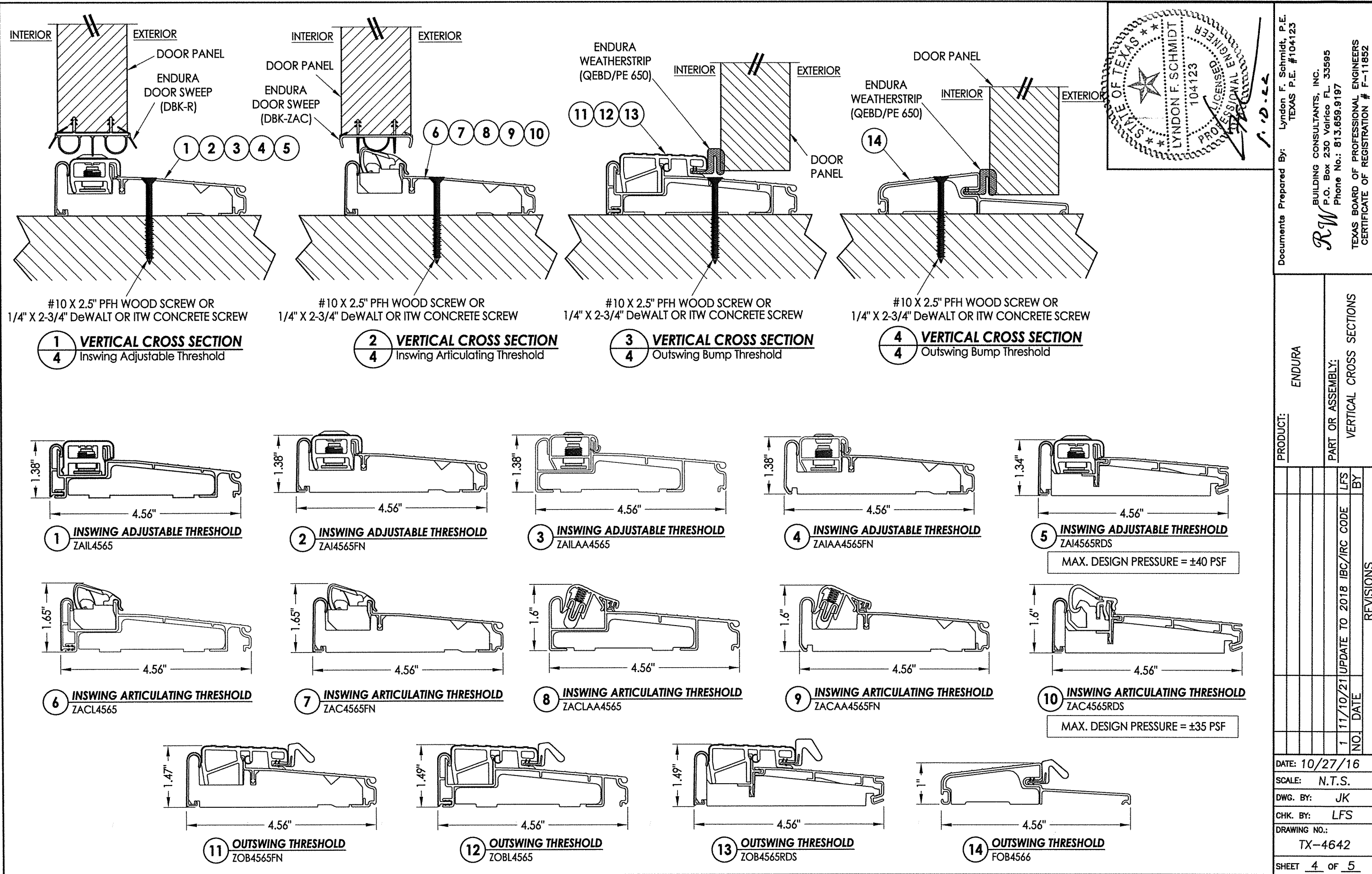
Documents Prepared By: Lyndon F. Schmidt, P.E.  
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PRODUCT:	ENDURA	
PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS	
NO.	DATE	BY
1	11/10/21	LFS
UPDATE TO 2018 IBC/IRC CODE		
REVISIONS		
DATE:	10/27/16	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4642	
SHEET	3 OF 5	

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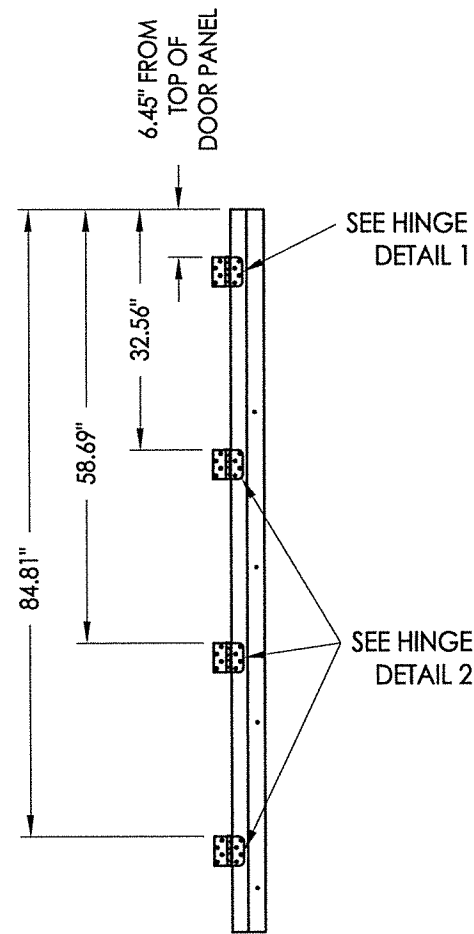
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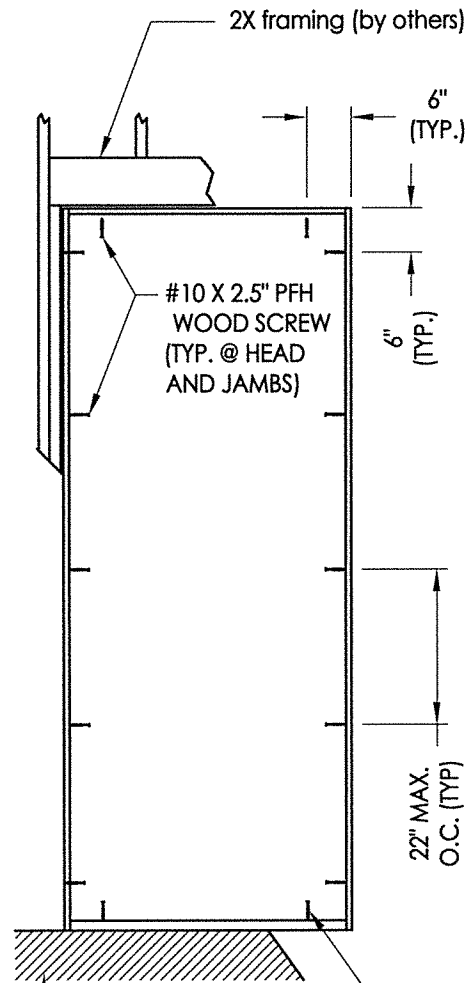
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	ENDURA
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS
DATE:	10/27/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4642
SHEET	4 OF 5

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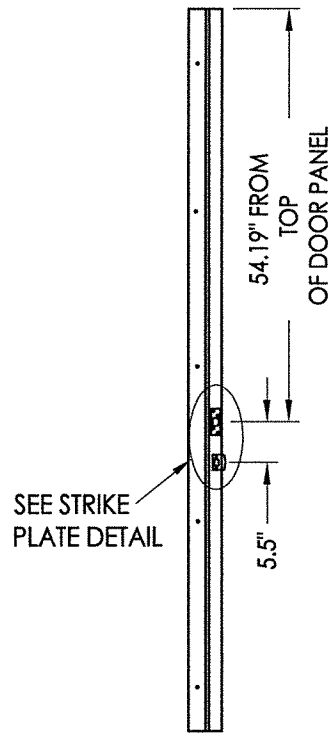


**HINGE JAMB**

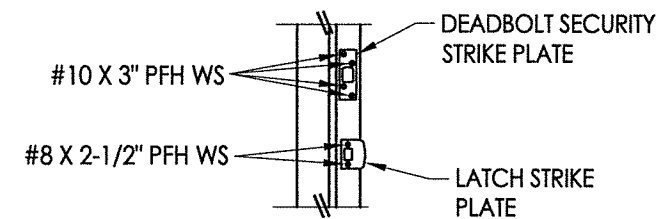


**FRAME ANCHORING**

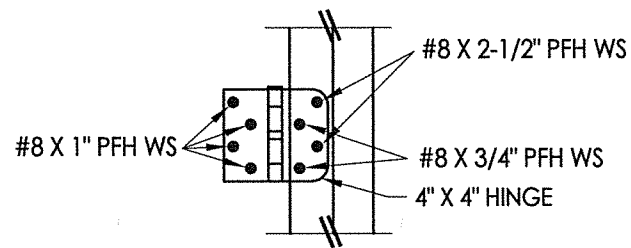
FLOOR SUBSTRATE MATERIAL (TYP.)  
 CONCRETE (MIN. 3000 PSI)  
 WOOD (G >= 0.42)



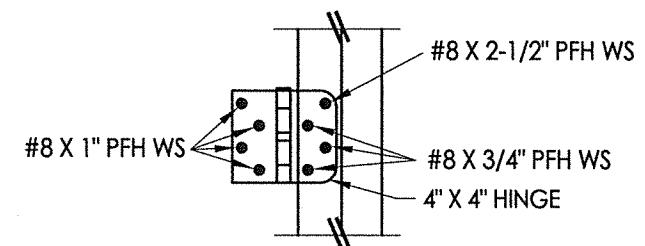
**STRIKE JAMB**



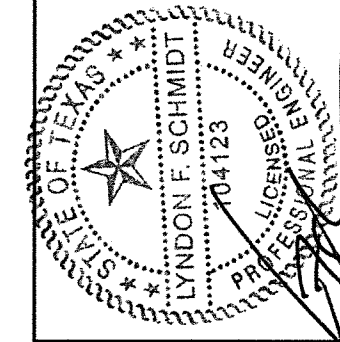
**STRIKE PLATE DETAIL**



**HINGE DETAIL 1**



**HINGE DETAIL 2**



Documents Prepared By: Lyndon F. Schmidt, P.E.  
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	ENDURA
PART OR ASSEMBLY:	FRAME ANCHORING

NO.	DATE	DESCRIPTION	BY
1	11/10/21	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	10/27/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4642
SHEET	5 OF 5

**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"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	4"