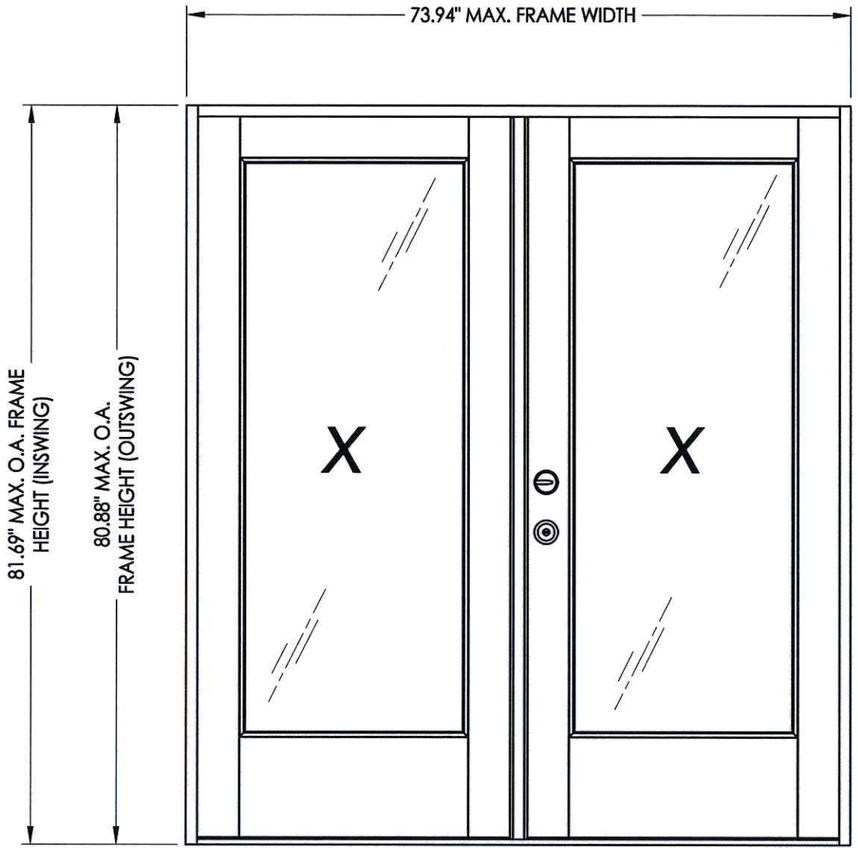
Endura PRODUCTS, INC.
8811 West Market Street
Colfax, NC 27235

Glazed Steel Door

"NON-IMPACT"
INSWING / OUTSWING



EVALUATED FOR USE IN THE STATE OF TEXAS

The Glazed Steel Door system described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) 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	Astragal details (Ultimate Hurricane)
3	Door panel details (lip lite insert glazing)
4	Horizontal cross sections
5	Vertical cross sections
6	Frame anchoring

CONFIG.	MODEL	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
XX	INSWING	+30.0	-35.0
	OUTSWING	+30.0	-30.0

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER

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	BY	REVISIONS

DATE: 9/06/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4220
SHEET 1 OF 6

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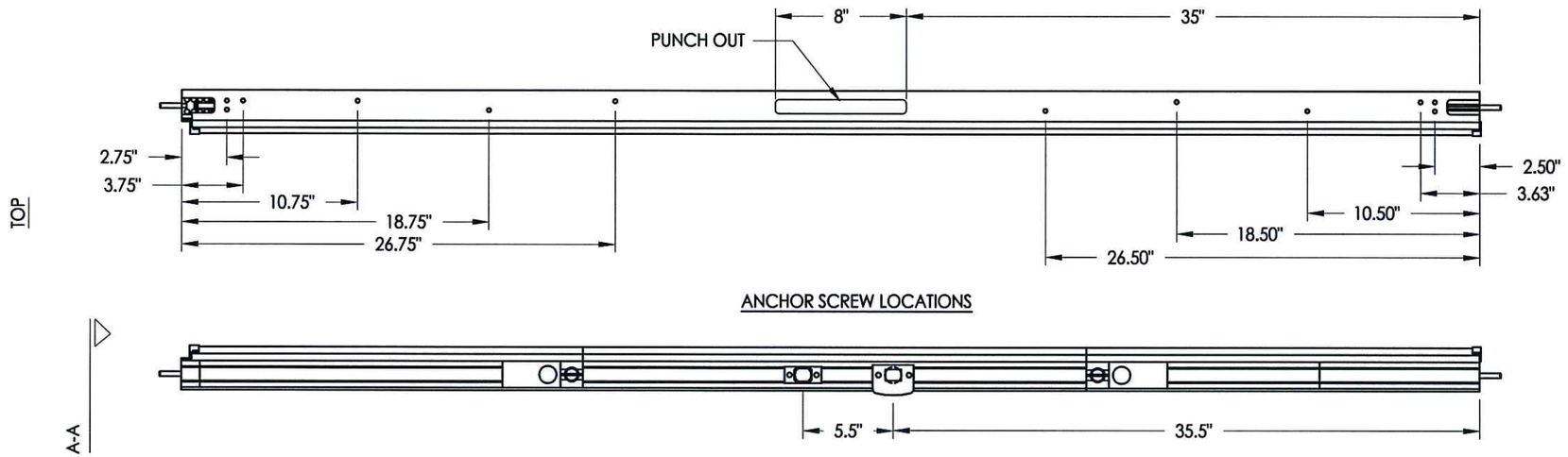
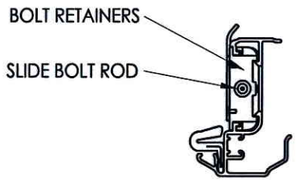
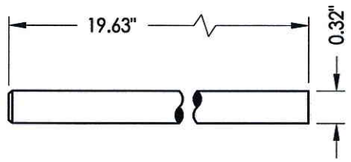


ANCHOR SCREW LOCATIONS

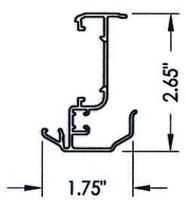
6'-8" ALUMINUM ASTRAGAL ASSEMBLY
By Endura



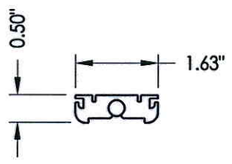
VIEW A-A
Aluminum Astragal Assembly



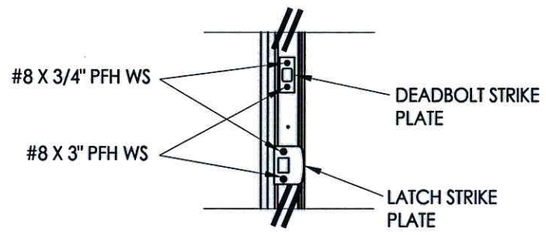
SLIDE BOLT ROD
MATL: Steel



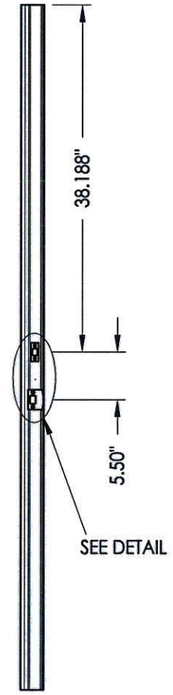
ULTIMATE HURRICANE ASTRAGAL



BOLT RETAINER
MATL: 9-3/4" Aluminum



LATCH & DEADBOLT DETAIL



ASTRAGAL

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE HURRICANE)

NO.	DATE	BY	REVISIONS

DATE: 9/06/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4220
SHEET 2 OF 6

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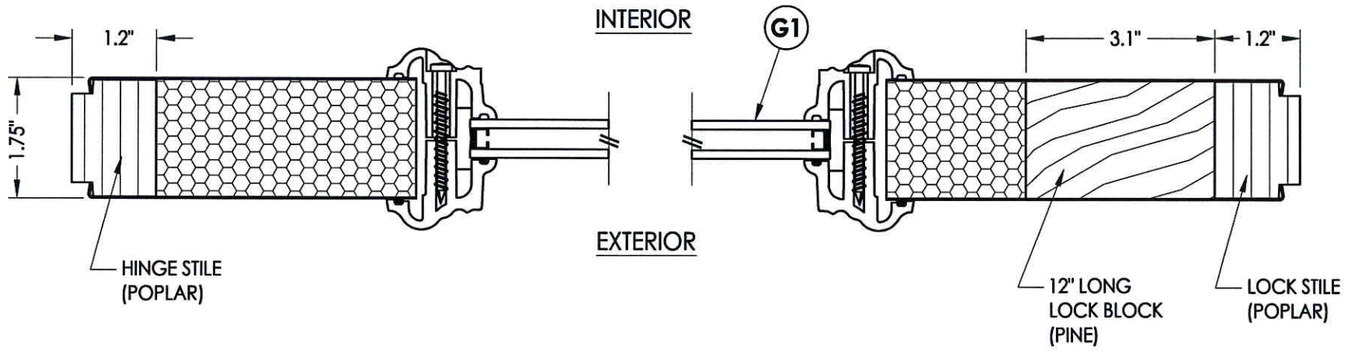
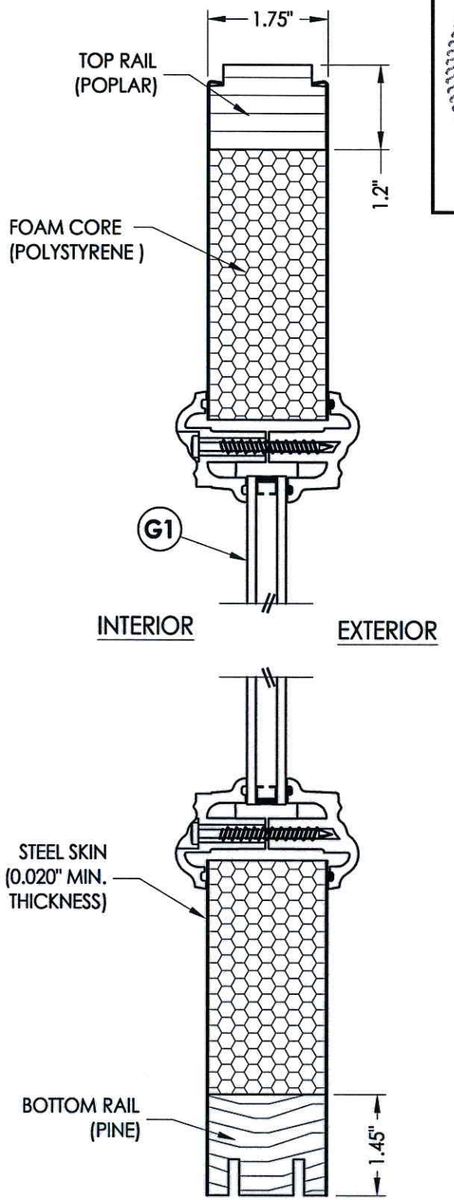
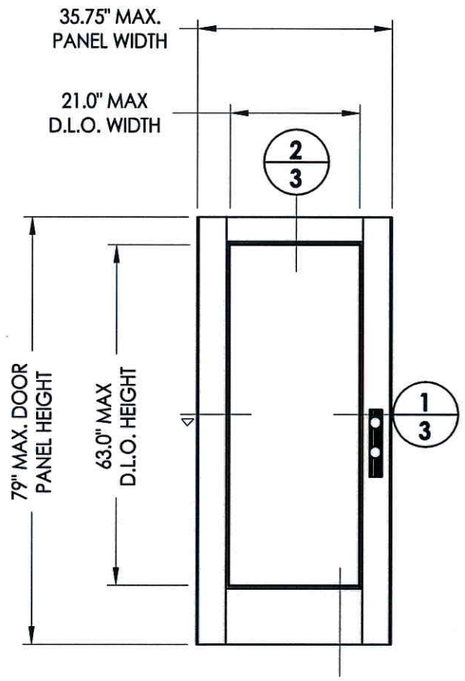


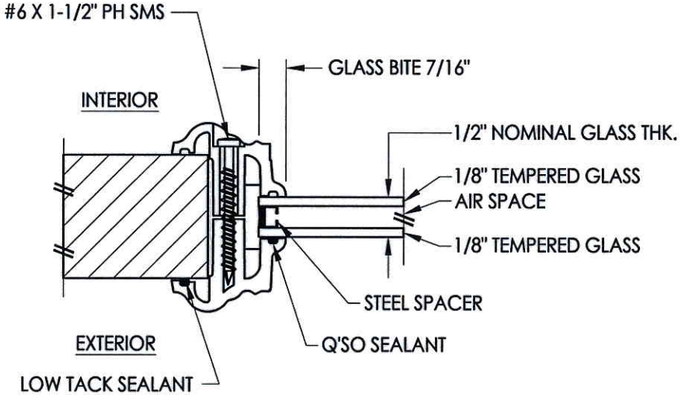
1/3 **HORIZONTAL CROSS SECTION**



2/3 **VERTICAL CROSS SECTION**



CREST
Insert glazed
(steel)



G1 **GLAZING DETAIL**
Lip Lite Insert Glazing (RSL)

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
10.1.12

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

PRODUCT: ENDURA

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

NO.	DATE	BY	REVISIONS

DATE: 9/06/12
SCALE: N.T.S.
DWG. BY: JK
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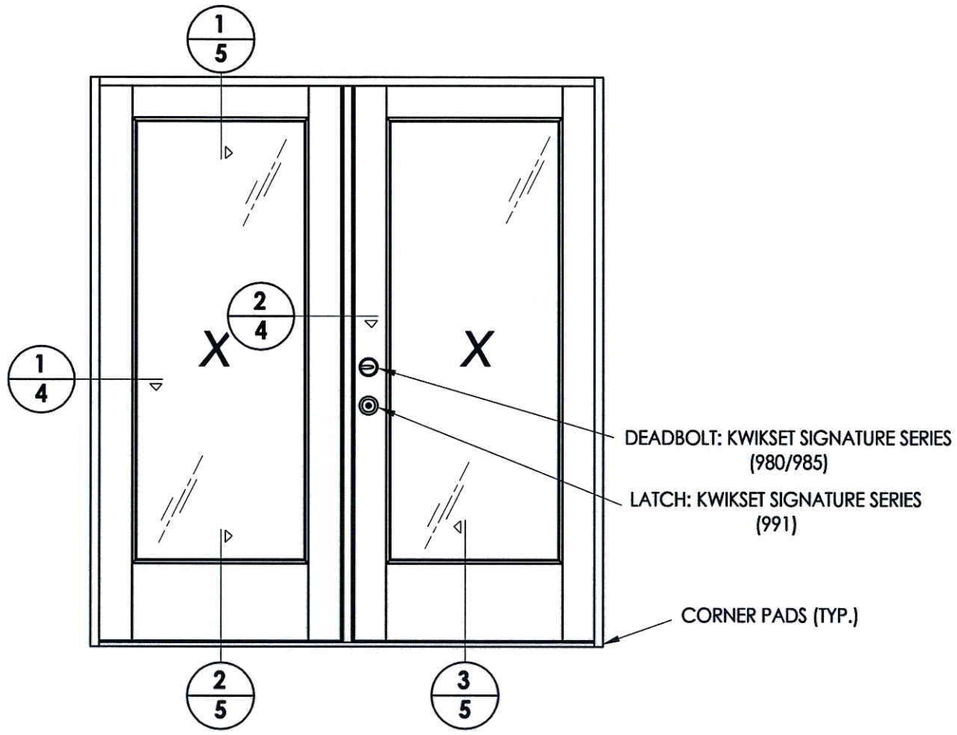
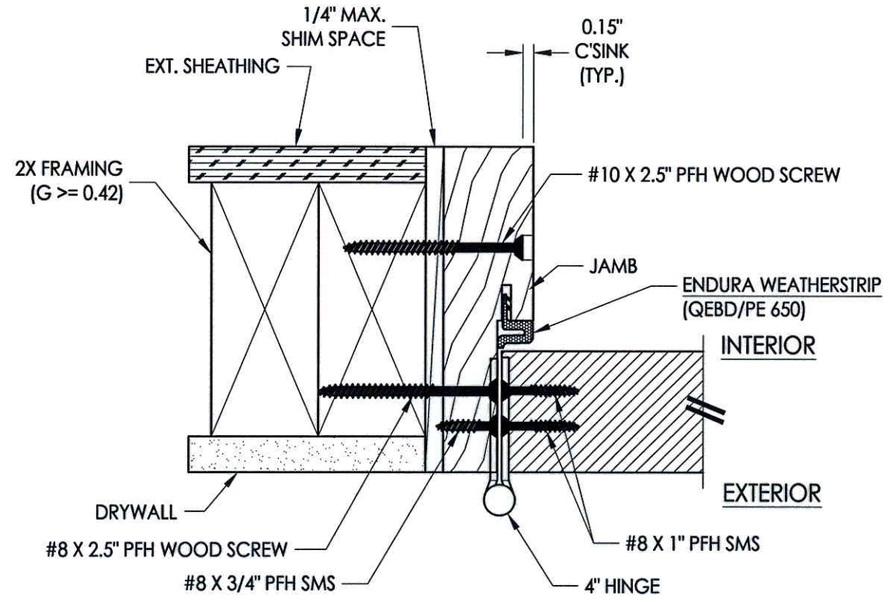
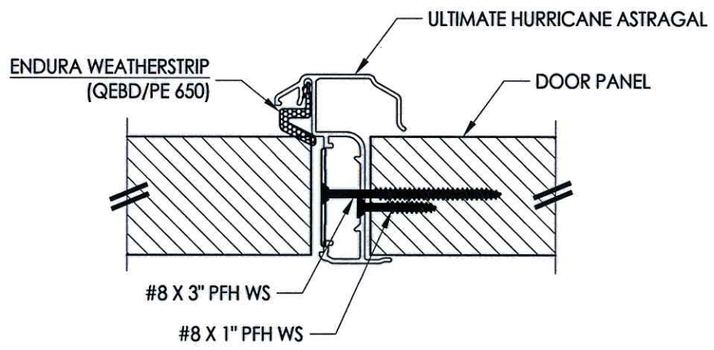




1/4 HORIZONTAL CROSS SECTION
Inswing shown - Outswing also approved



2/4 HORIZONTAL CROSS SECTION

STATE OF TEXAS
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104123
LICENSED PROFESSIONAL ENGINEER

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PRODUCT: ENDURA

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	BY
	REVISIONS	

DATE: 9/06/12
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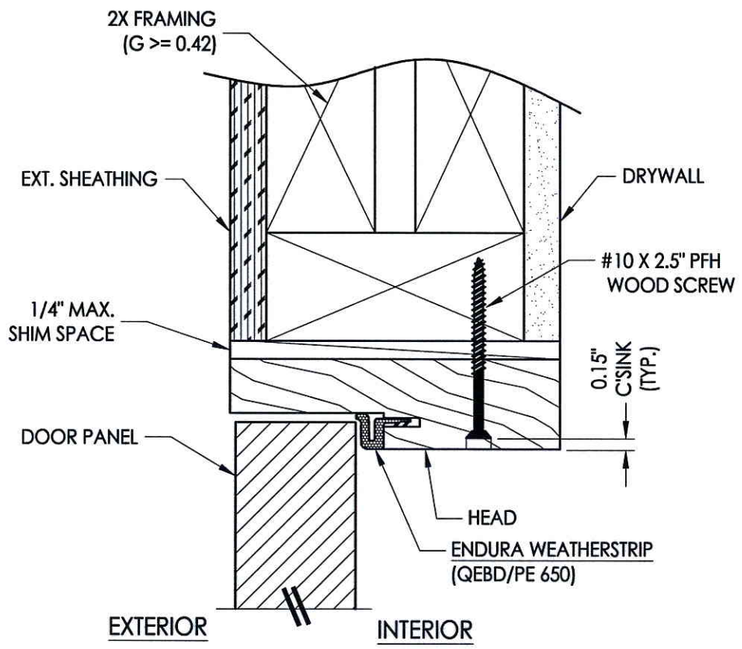
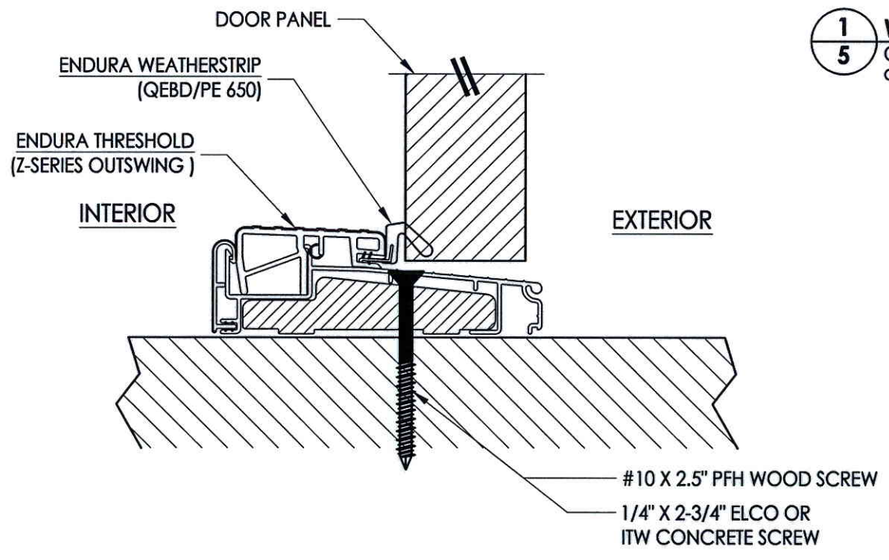
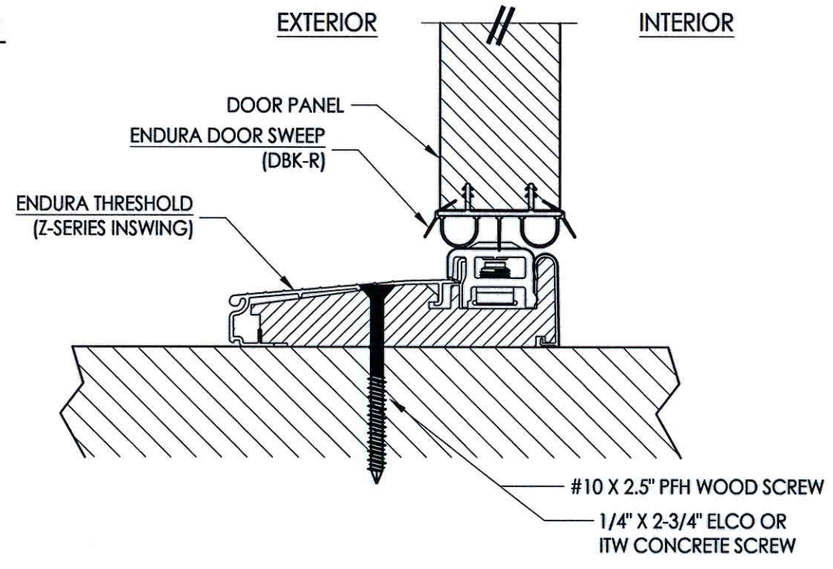


1/5 VERTICAL CROSS SECTION
Outswing shown - inswing also approved



2/5 VERTICAL CROSS SECTION
Outswing shown



3/5 VERTICAL CROSS SECTION
Inswing configuration

Documents Prepared By: Lyndon F. Schmidt, P.E.
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PRODUCT: ENDURA

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 9/06/12
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4220
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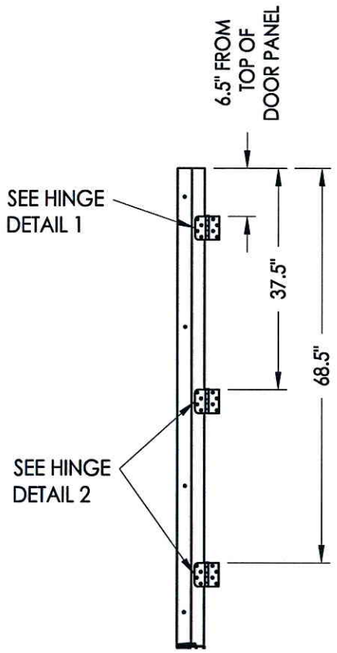
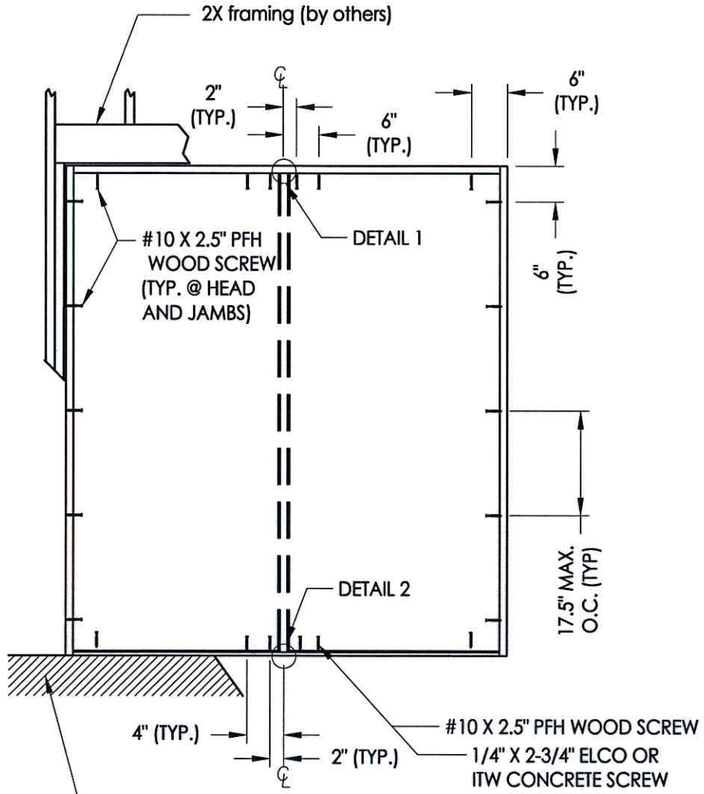
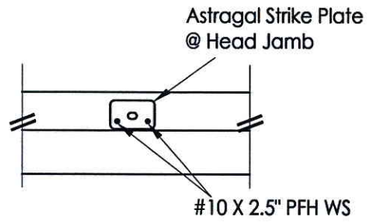


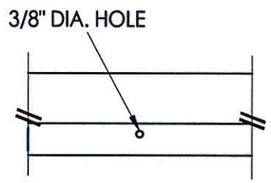
HINGE JAMB



FRAME ANCHORING
XX



DETAIL 1

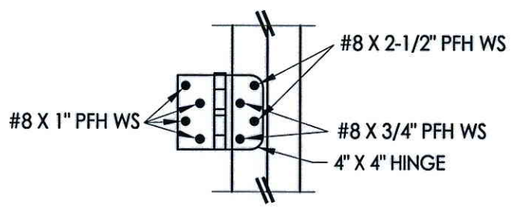


DETAIL 2

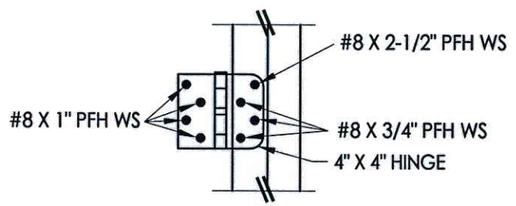
CONCRETE ANCHOR NOTES:

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



HINGE DETAIL 1



HINGE DETAIL 2

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

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P.O. Box 230 Valrico FL 33595
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ENDURA

PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY

REVISIONS

DATE: 9/06/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4220
SHEET 6 OF 6

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