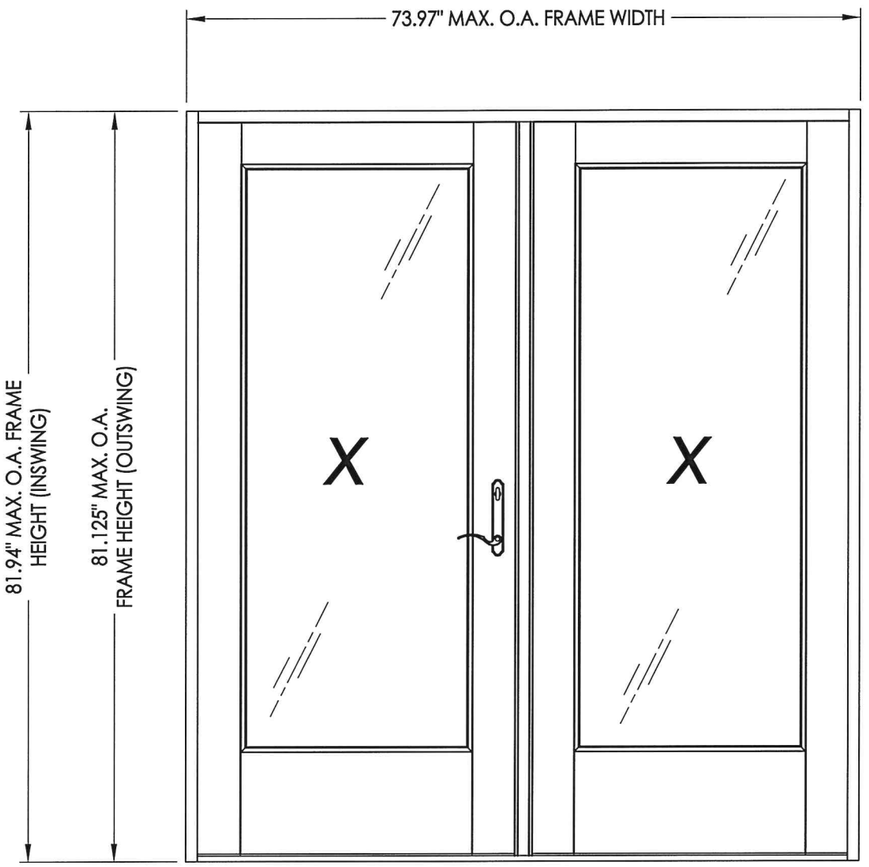
Endura
PRODUCTS, INC.
8811 West Market Street
Colfax, N.C. 27235

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 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.

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1	Typical elevations, design pressures & general notes
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3	Door panel details (lip lite insert glazing)
4	Door panel details (flush glazing)
5	Horizontal cross sections
6	Vertical cross sections
7	Frame anchoring

CONFIG.	GLAZING	MODEL	DESIGN PRESSURE (PSF) ULTIMATE ASTRAGAL LITE	
			POSITIVE	NEGATIVE
XX	LIP LITE INSERT	INSWING	+40.0	-45.0
XX	LIP LITE INSERT	OUTSWING	+35.0	-35.0
XX	FLUSH GLAZED	INSWING	+45.0	-45.0
XX	FLUSH GLAZED	OUTSWING	+55.0	-55.0

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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

REVISIONS

NO.	DATE	BY
1	5/07/15	LFS

ADD NEW ASTRAGAL PIN CAPTURE

DATE: 1/16/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4432
SHEET 1 OF 7

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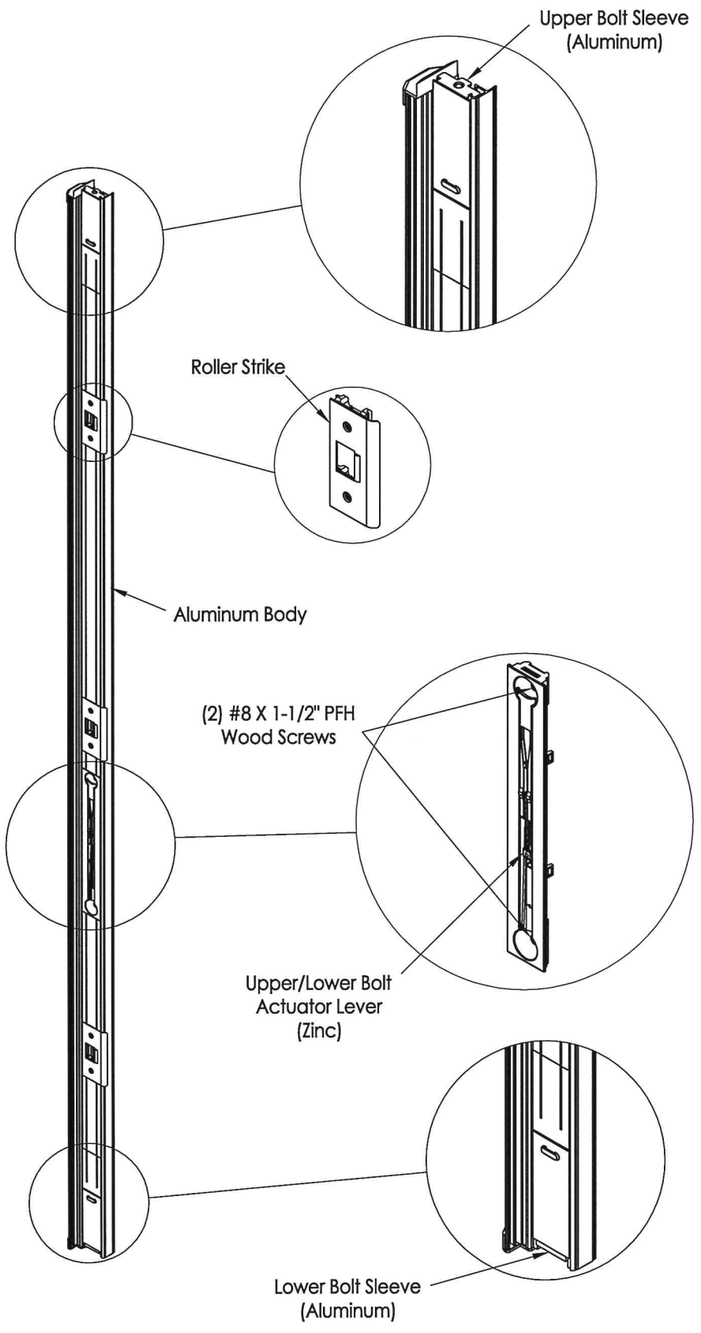
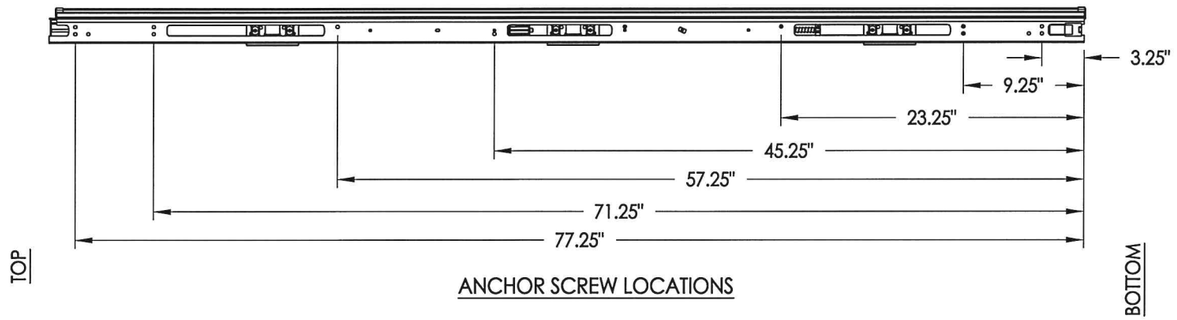
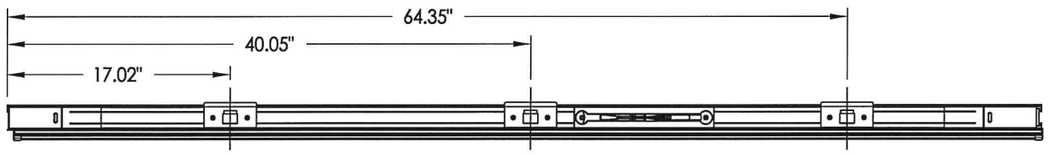


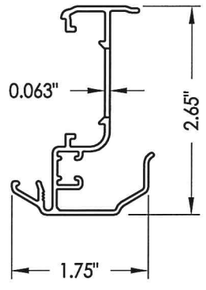
ULTIMATE TRILENNIUM ASTRAGAL



ANCHOR SCREW LOCATIONS



HARDWARE LOCATIONS



Astragal Section

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

PRODUCT: ENDURA

PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE TRILENNIUM)

NO.	DATE	REVISIONS	BY
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE	LFS

DATE: 1/16/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4432
SHEET 2 OF 7

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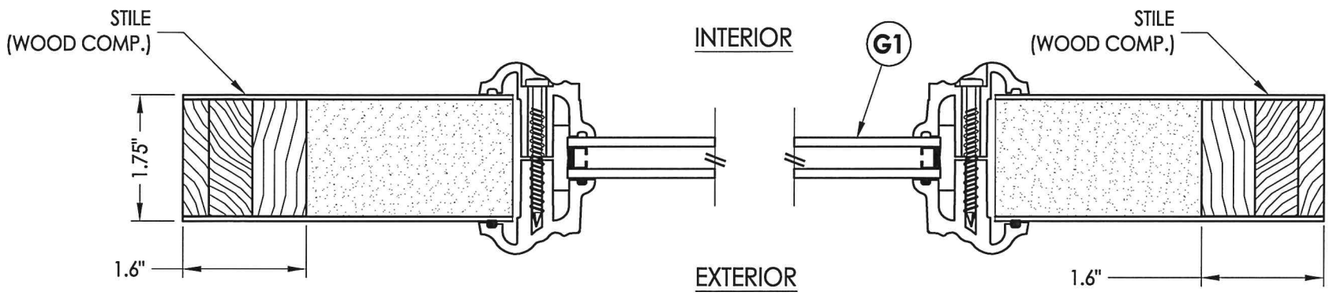
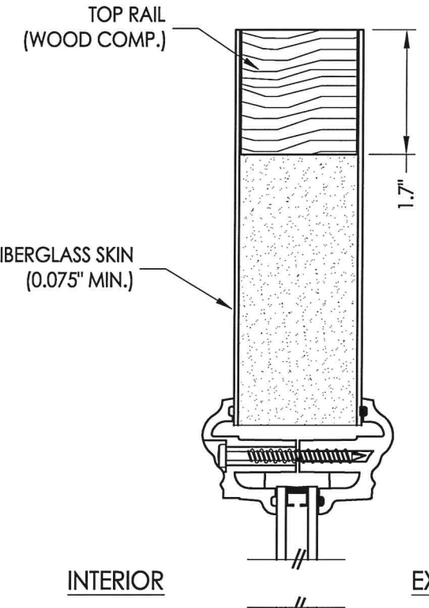
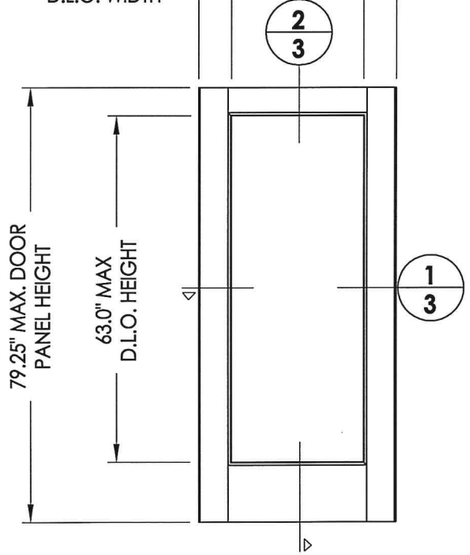
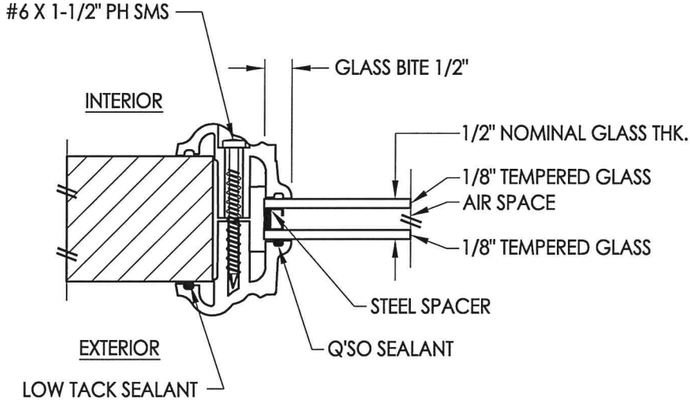


1/3 **HORIZONTAL CROSS SECTION**

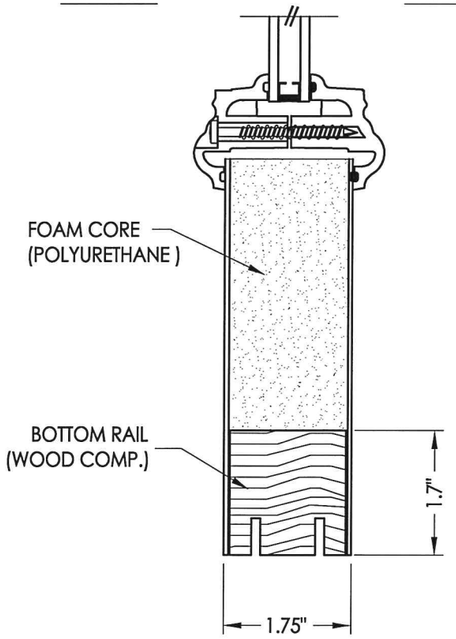




MASONITE
Insert glazed
(fiberglass)



G1 **GLAZING DETAIL**
Lip Lite Insert Glazing



2/3 **VERTICAL CROSS SECTION**

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

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

PRODUCT: ENDURA

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

NO.	DATE	REVISIONS	BY
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE	LFS

DATE: 1/16/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4432
SHEET 3 OF 7

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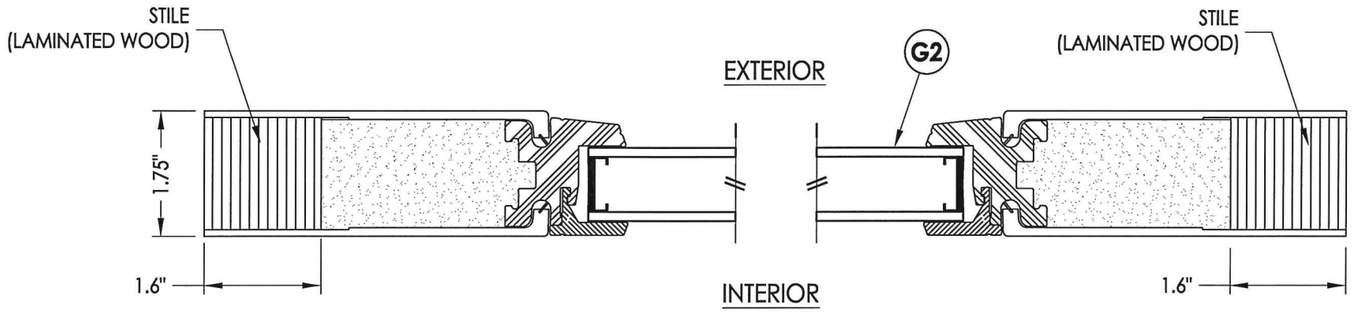
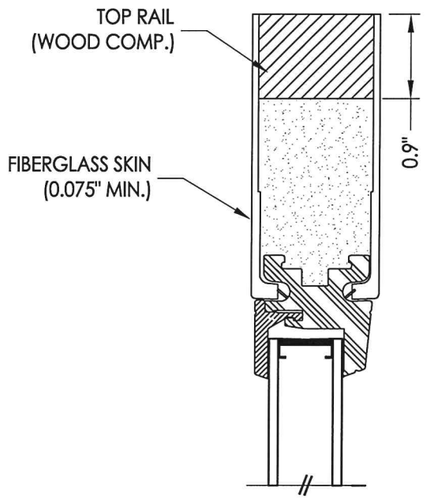
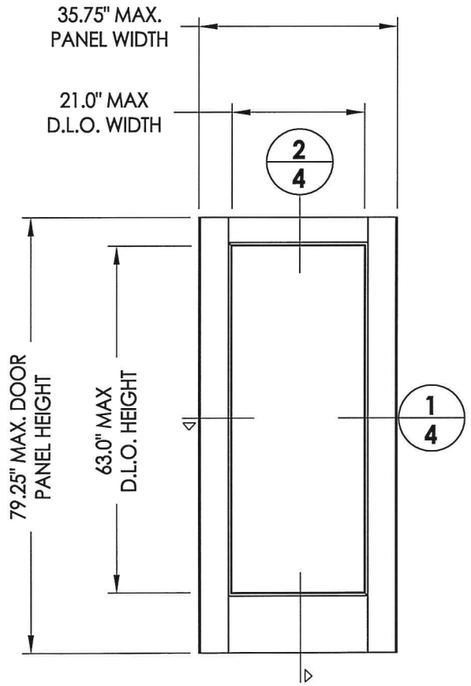
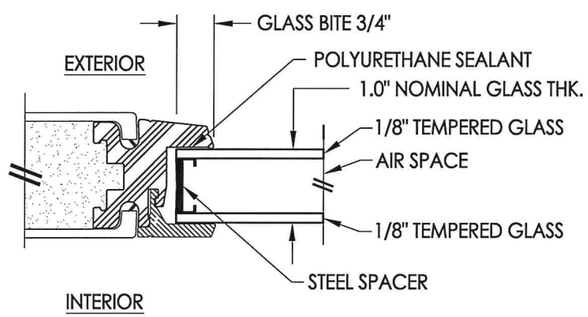


1/4 HORIZONTAL CROSS SECTION

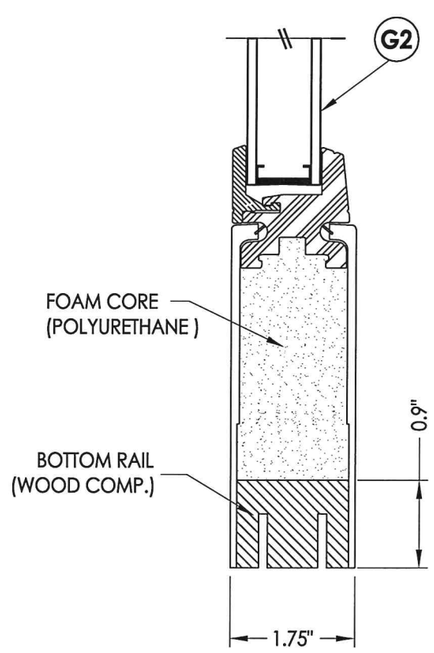




MASONITE
Flush glazed
(fiberglass)



G2 GLAZING DETAIL
Flush Glazing



2/4 VERTICAL CROSS SECTION

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

PRODUCT: ENDURA

PART OR ASSEMBLY: DOOR PANEL DETAILS (FLUSH GLAZING)

NO.	DATE	BY
1	5/07/15	LFS

ADD NEW ASTRAGAL PIN CAPTURE

REVISIONS

DATE: 1/16/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4432
SHEET 4 OF 7

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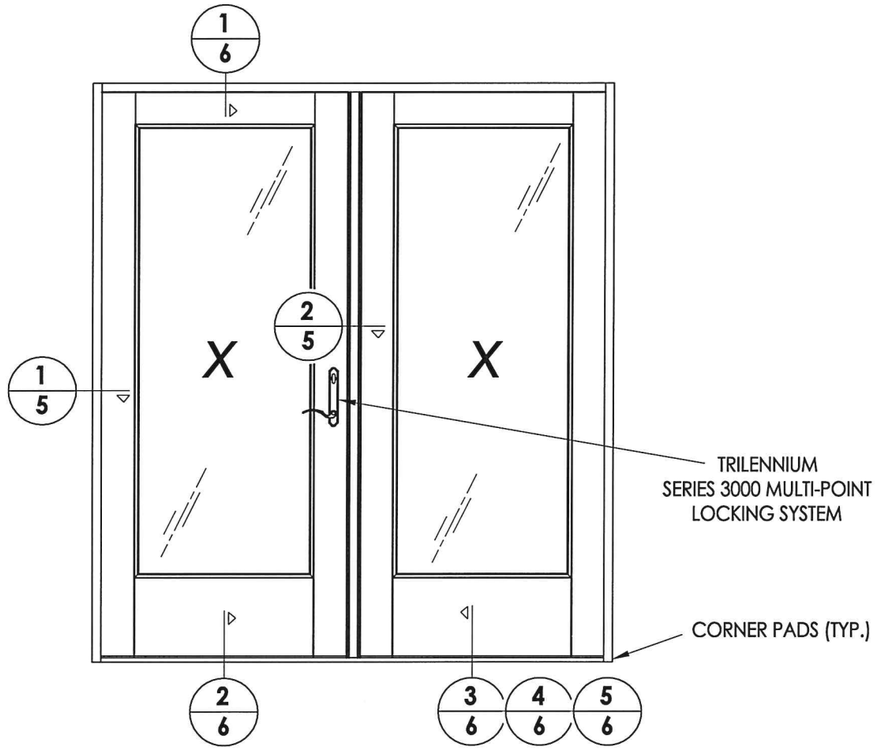
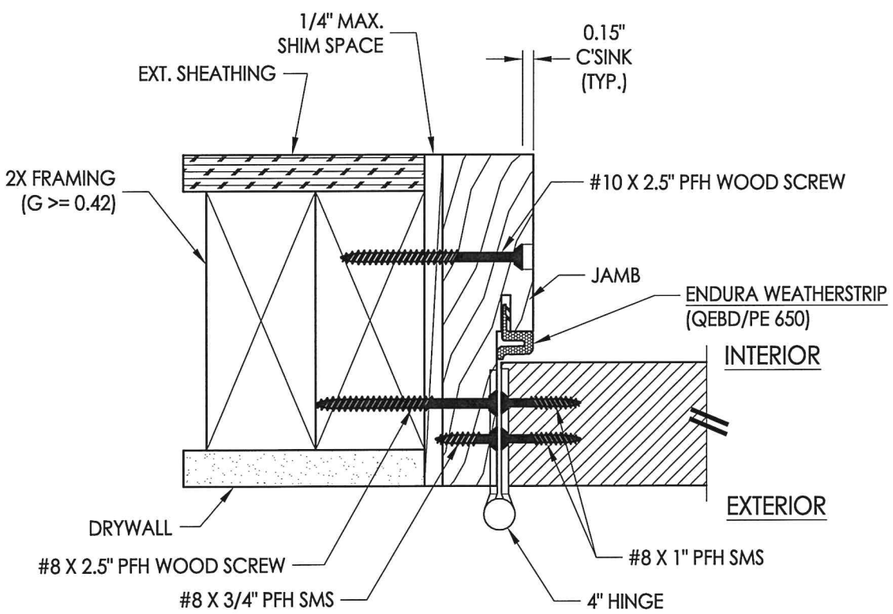
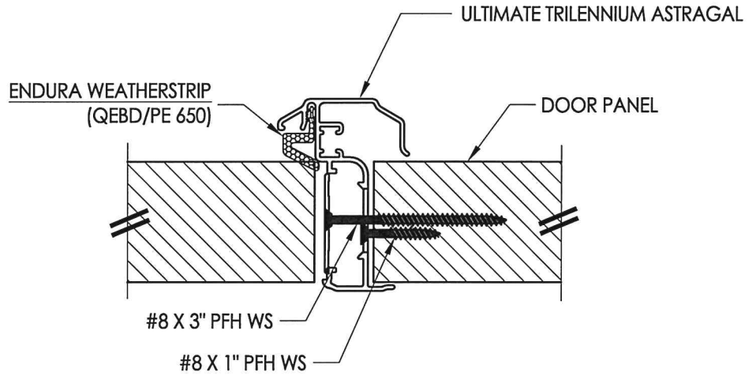
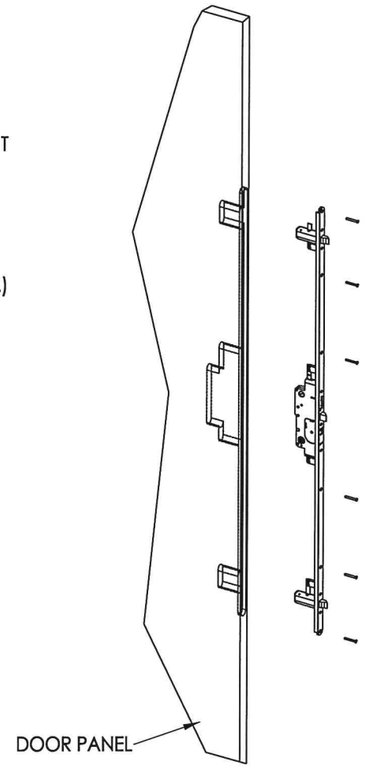




1/5 **HORIZONTAL CROSS SECTION**
Inswing shown - Outswing also approved



2/5 **HORIZONTAL CROSS SECTION**



TRILENNIUM
SERIES 3000 MULTI-POINT
LOCKING SYSTEM

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

PRODUCT: ENDURA

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE	LFS

DATE: 1/16/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4432
SHEET 5 OF 7

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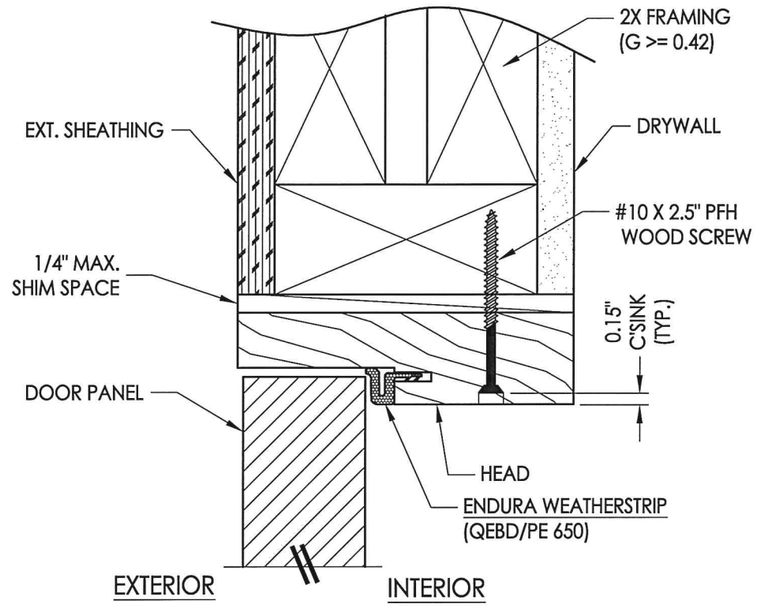
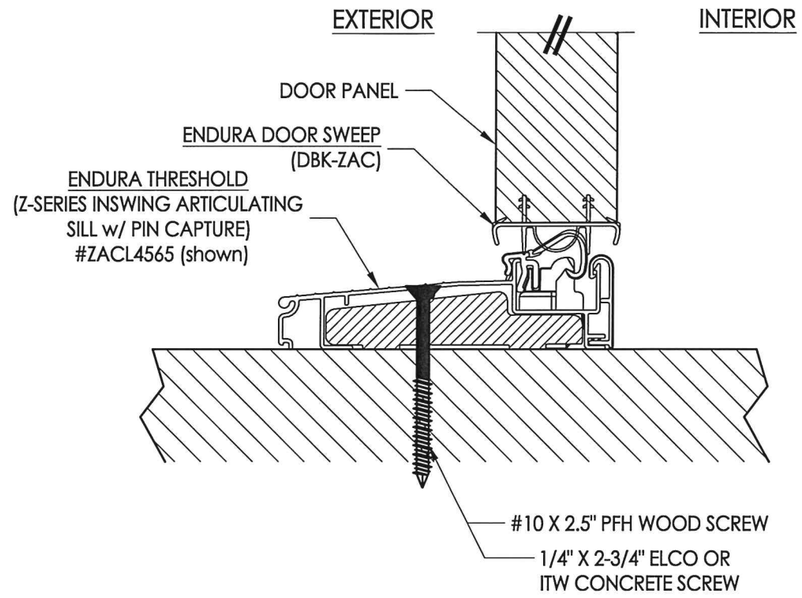
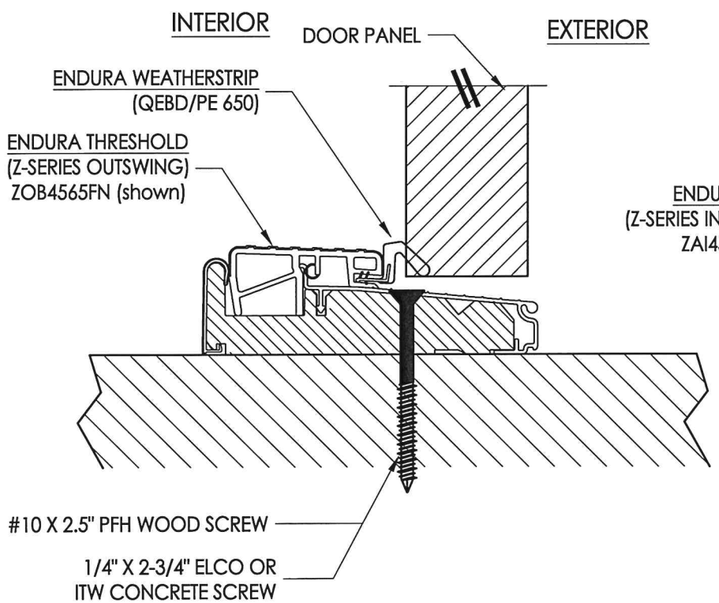


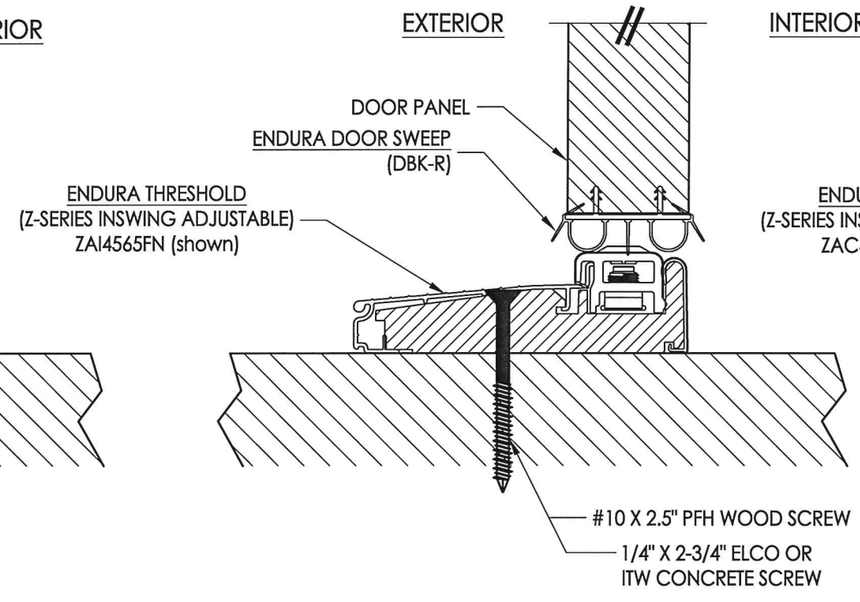
1/6 VERTICAL CROSS SECTION
Outswing shown - inswing also approved



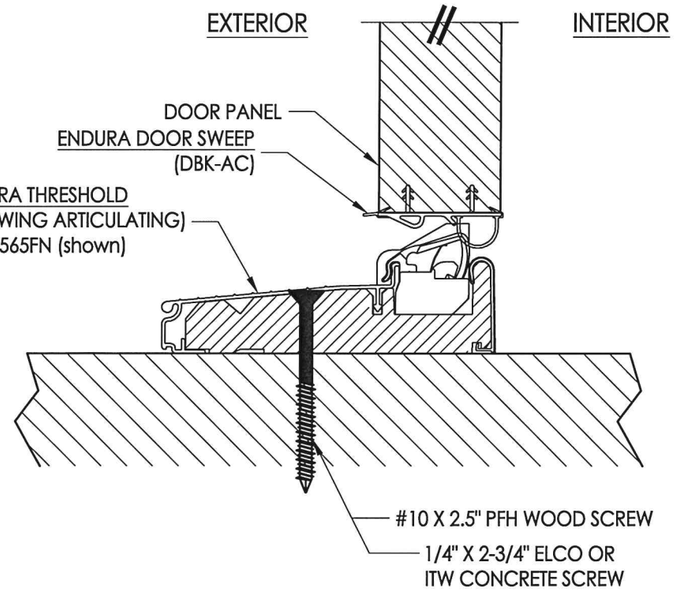
5/6 VERTICAL CROSS SECTION
Inswing configuration



2/6 VERTICAL CROSS SECTION
Outswing shown



3/6 VERTICAL CROSS SECTION
Inswing configuration



4/6 VERTICAL CROSS SECTION
Inswing configuration

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

PRODUCT: ENDURA

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	5/07/15	ADD NEW ASTRAGAL PIN CAPTURE	LFS

DATE: 1/16/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4432
SHEET 6 OF 7

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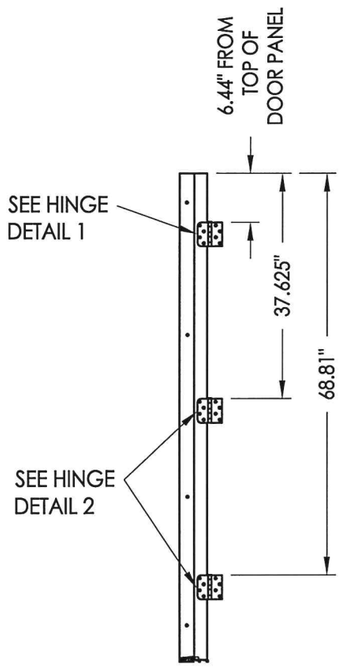
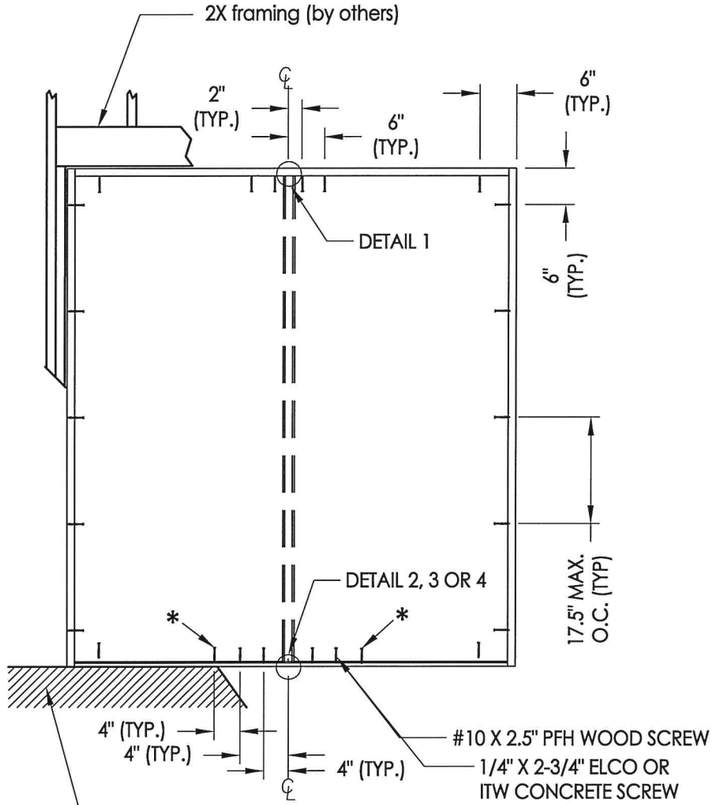
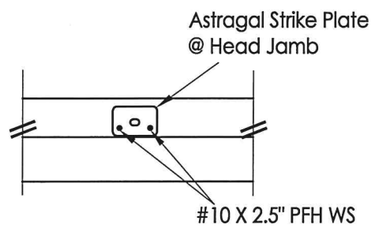


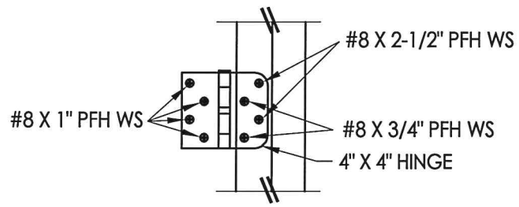
HINGE JAMB



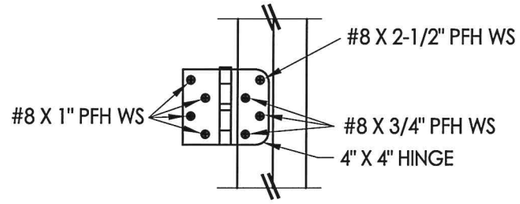
FRAME ANCHORING
XX



DETAIL 1



HINGE DETAIL 1



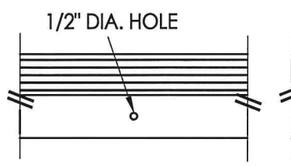
HINGE DETAIL 2

*NOTE: Outside anchors are required for D.P. > 50 PSF.

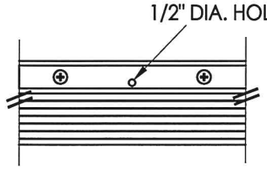
CONCRETE ANCHOR NOTES:

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:*

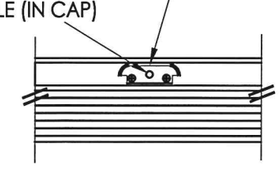
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	1-1/2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	1"	4"



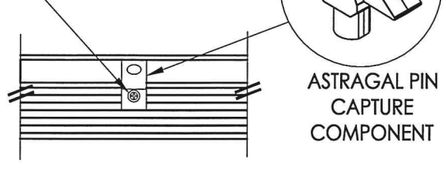
DETAIL 2
Outswing



DETAIL 2
Inswing



DETAIL 3
Inswing



DETAIL 4
Inswing

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

PRODUCT: ENDURA
PART OR ASSEMBLY: FRAME ANCHORING

REVISIONS

NO.	DATE	BY
1	5/07/15	LFS

ADD NEW ASTRAGAL PIN CAPTURE

DATE: 1/16/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4432
SHEET 7 OF 7

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