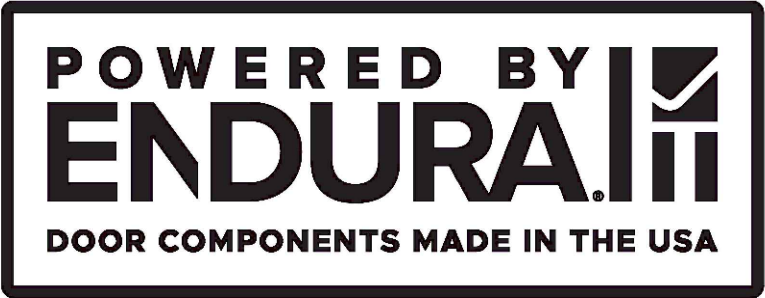


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Ultimate Flip Lever Astragal

INSWING / OUTSWING

"NON-IMPACT"

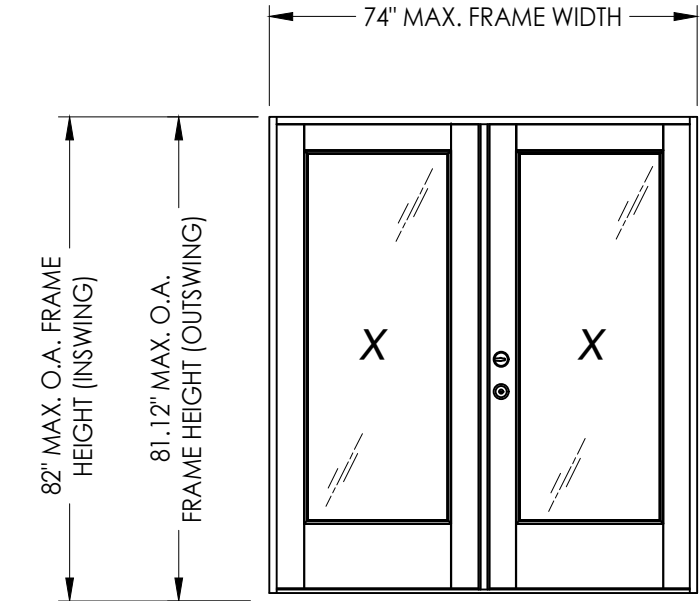
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. This product has been tested and is approved for use in the door panels as specified in this approval. Substitution into a similar product that possess a comparable current Florida Statewide product approval may be approved for use by the local Authority Having Jurisdiction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

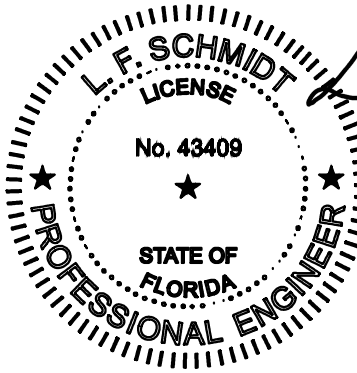
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Astragal details
3	Door panel details
4	Horizontal and vertical cross sections
5	Threshold details
6	Buck and frame anchoring



Ultimate Flip Lever Astragal



ULTIMATE FLIP LEVER ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO Flush Glazed (FIBERGLASS)	INSWING	74.5" X 82"	+60.0	-65.0
	OUTSWING	74.5" X 81.12"	+60.0	-60.0



LFS

Digitally signed by Lyndon F Schmidt

Date: 2024.04.17 16:08:26 -04'00'

This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

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

8	4/15/24	ADD MODERN ASTRAGAL PROFILE	LFS
7	7/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
6	8/11/20	UPDATE TO 7TH ED. (2020) FBC	LFS
NO.	DATE		BY
REVISIONS			

DATE: 8/30/11

SCALE: N.T.S.

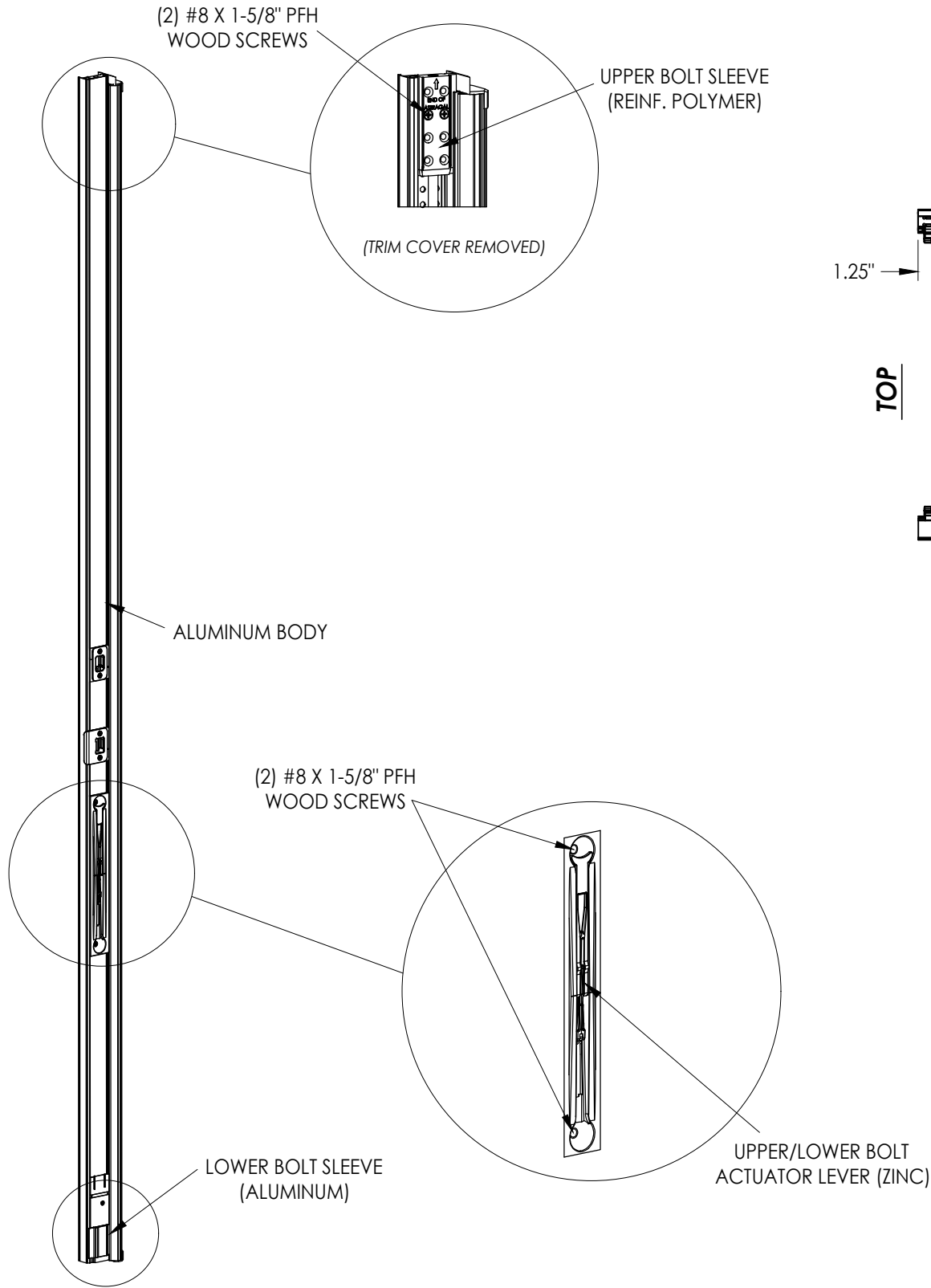
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CHK. BY: LFS

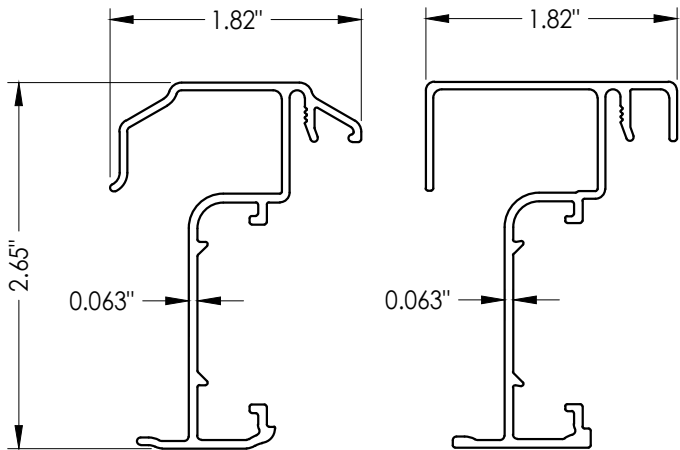
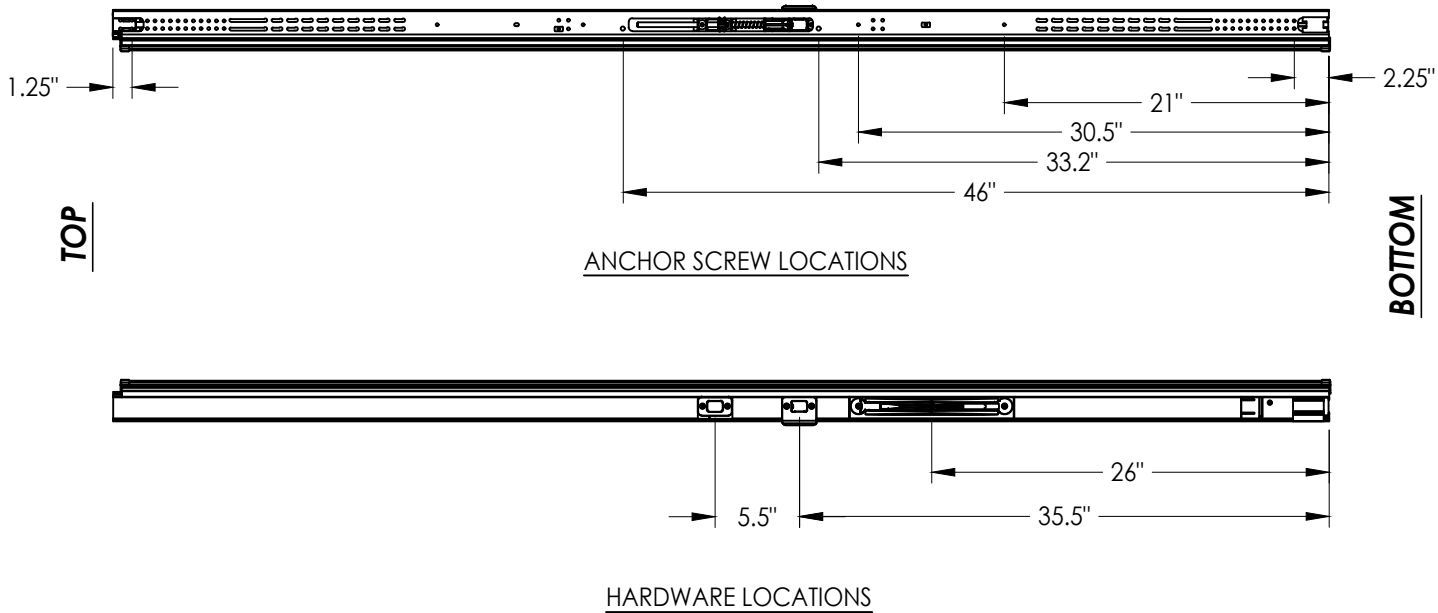
DRAWING NO.: FL-14823.1

SHEET 1 OF 6

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ULTIMATE FLIP LEVER ASTRAGAL



ASTRAGAL SECTIONS

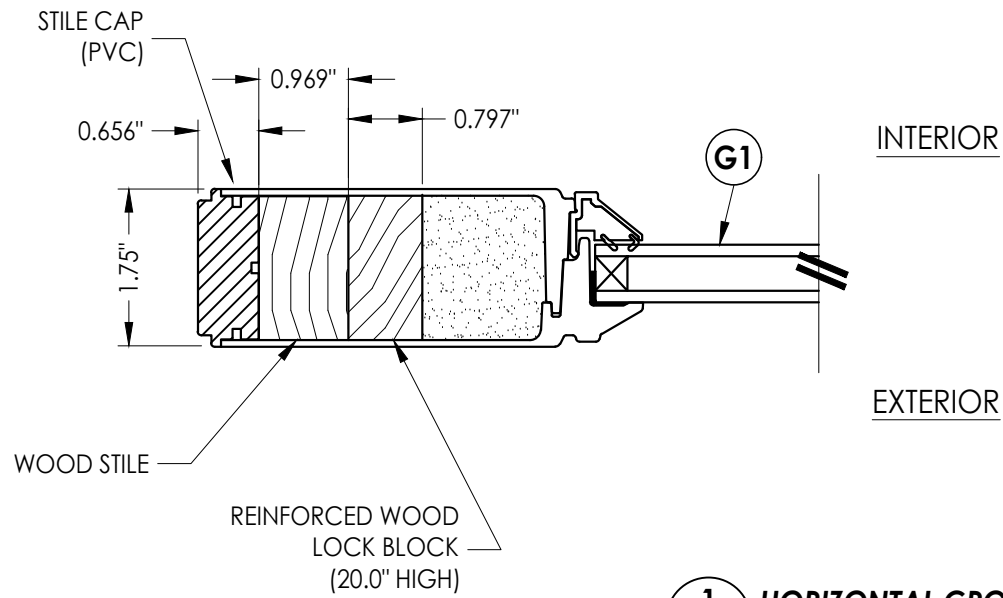
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8	4/15/24	ADD MODERN ASTRAGAL PROFILE	LFS	
7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
6	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
			BY	

DATE:	8/30/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14823.1
SHEET	2 OF 6

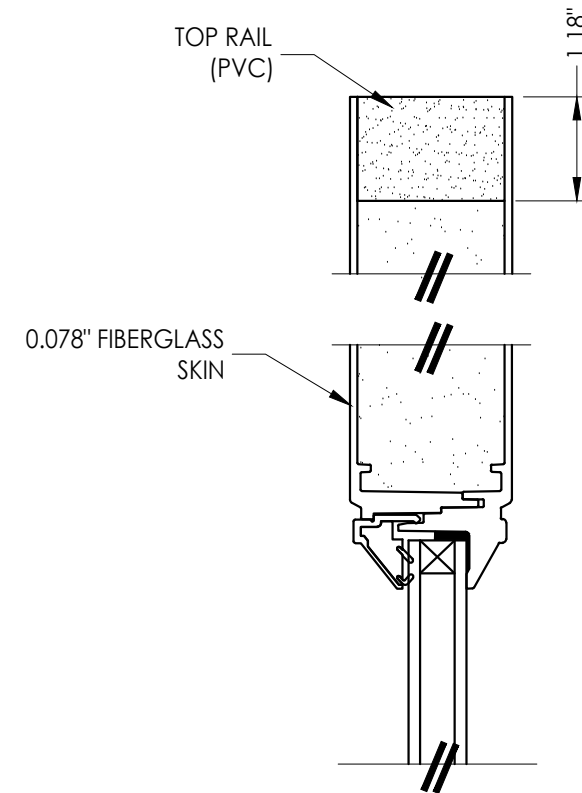
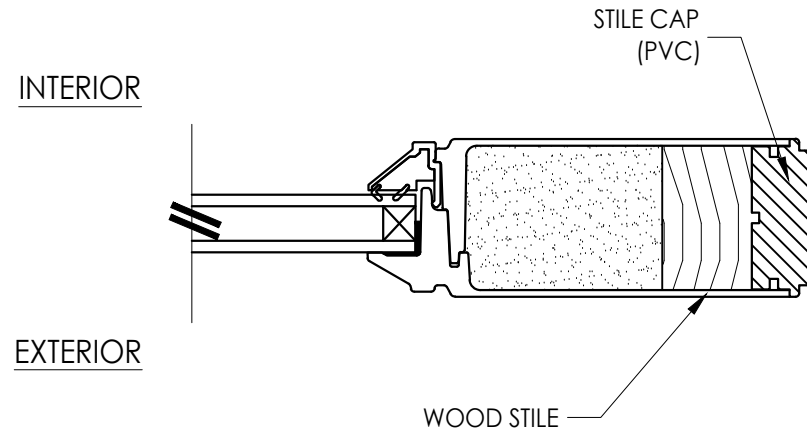
PRODUCT:	ENDURA
PART OR ASSEMBLY:	ASTRAGAL DETAILS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

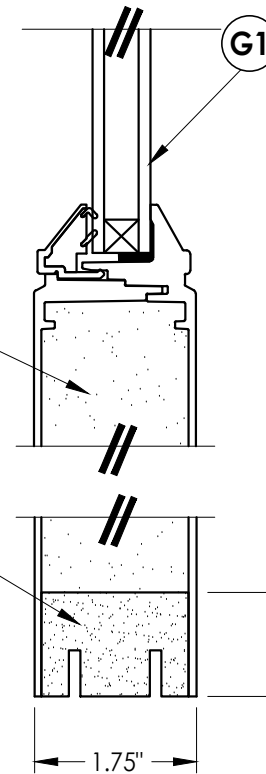
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



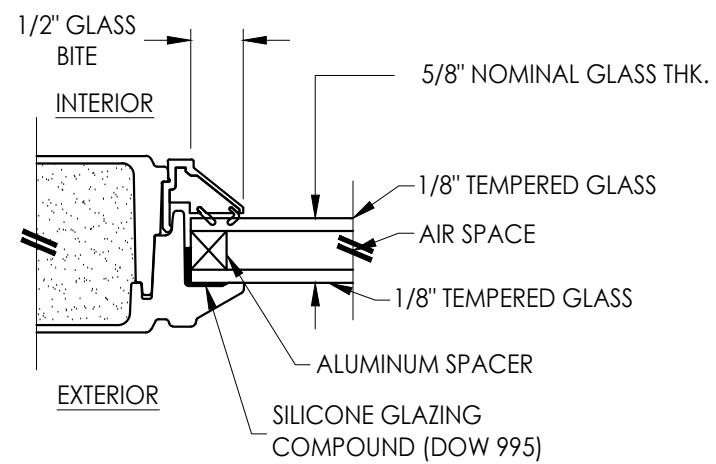
1 **HORIZONTAL CROSS SECTION**
3



INTERIOR EXTERIOR

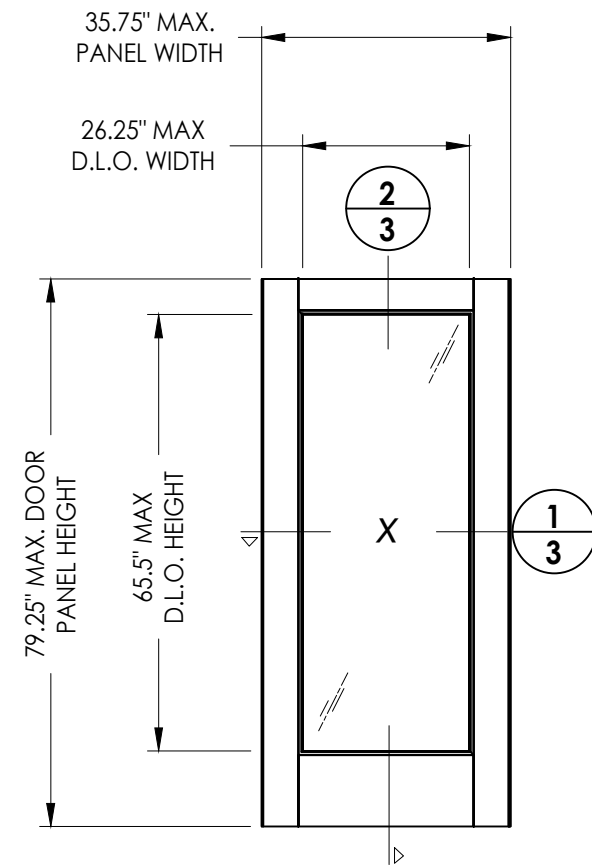


2 VERTICAL CROSS SECTION



G1 GLAZING DETAIL

Flush Glazing



PLASTPRO
Flushglazed
(Fiberglass)

[illegible]

DATE: 8/30/11

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

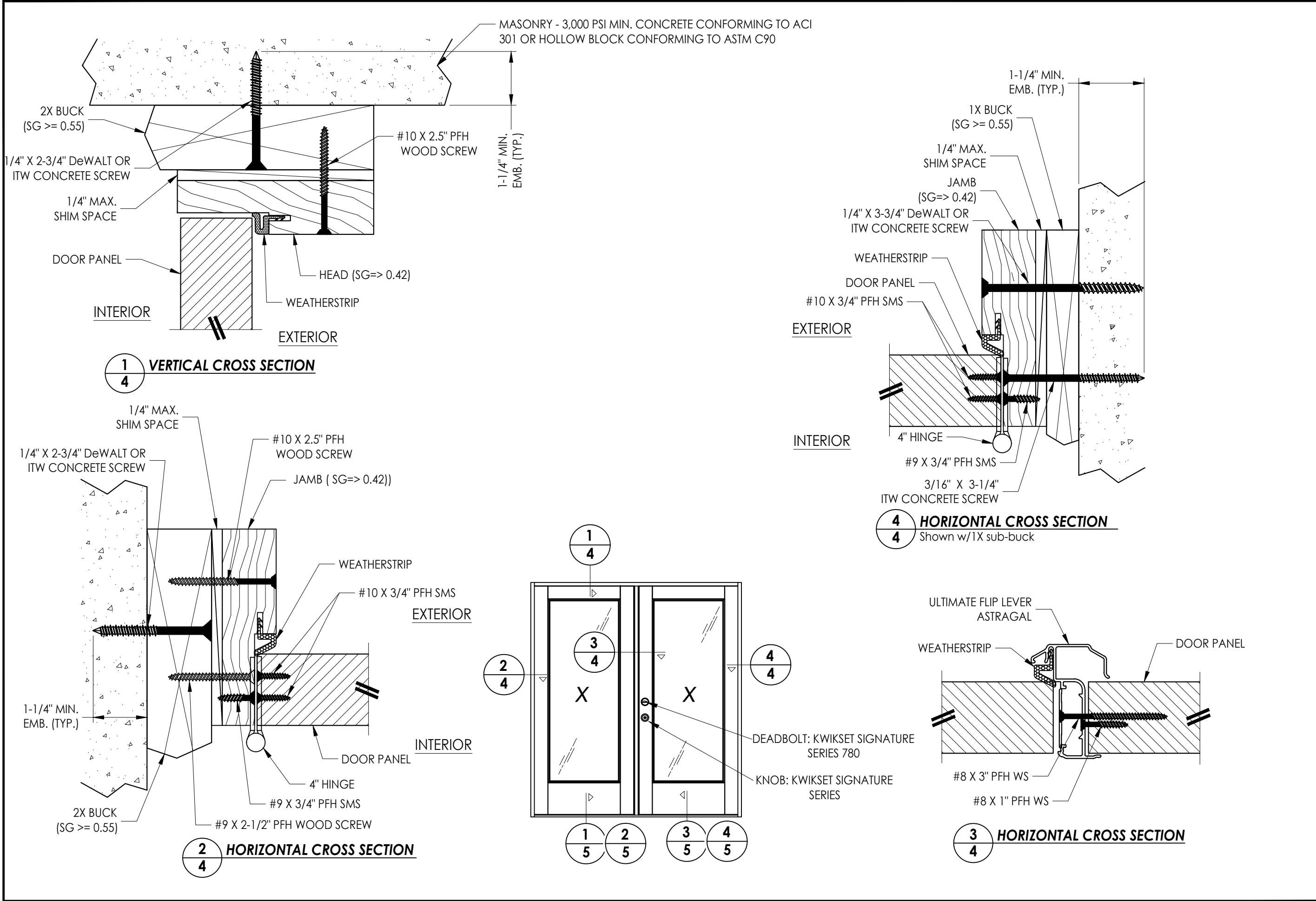
FL-14823.1

SHEET 3 OF 6

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

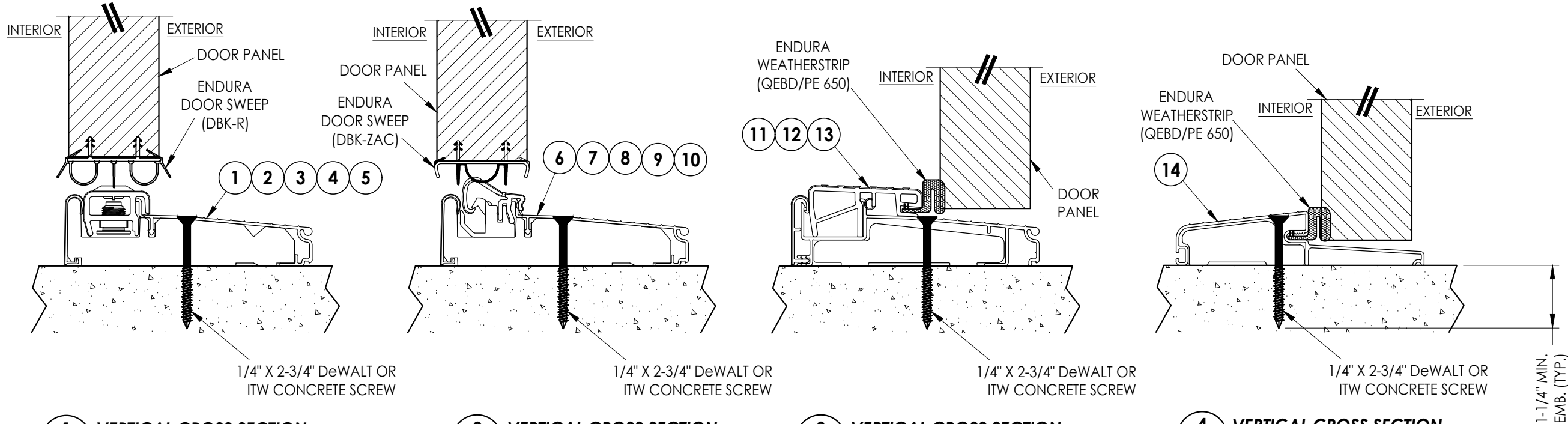
R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: ENDURA	PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS	REVISONS	
		NO.	DATE
		8	4/15/24
		7	7/07/23
		6	8/11/20
		5	
		4	
		3	
		2	
		1	
DATE: 8/30/11		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-14823.1		SHEET 4 OF 6	

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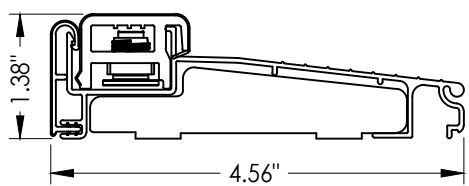


1 **VERTICAL CROSS SECTION**
5 Inswing Adjustable Threshold

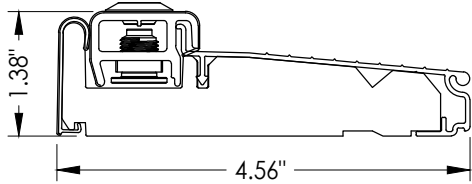
2 **VERTICAL CROSS SECTION**
5 Inswing Articulating Threshold
w/ Pin CAPture

3 **VERTICAL CROSS SECTION**
5 Outswing Bump Threshold

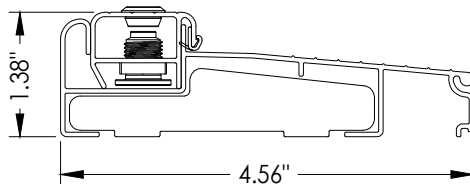
4 **VERTICAL CROSS SECTION**
5 Outswing Bump Threshold



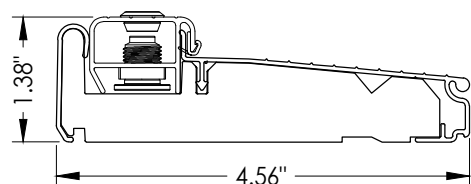
1 **INSWING ADJUSTABLE THRESHOLD**
ZAIL4565
MAX. DESIGN PRESSURE = +50/-55 PSF



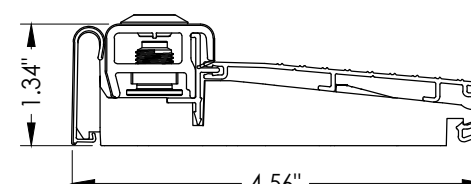
2 **INSWING ADJUSTABLE THRESHOLD**
ZAI4565FN
MAX. DESIGN PRESSURE = +50/-55 PSF



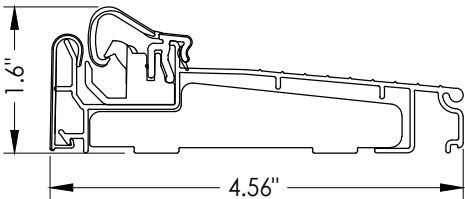
3 **INSWING ADJUSTABLE THRESHOLD**
ZAILAA4565
MAX. DESIGN PRESSURE = +50/-55 PSF



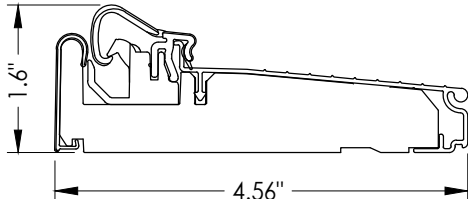
4 **INSWING ADJUSTABLE THRESHOLD**
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MAX. DESIGN PRESSURE = +50/-55 PSF



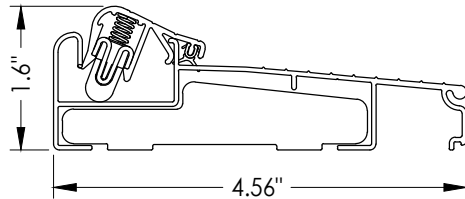
5 **INSWING ADJUSTABLE THRESHOLD**
ZAI4565RDS
MAX. DESIGN PRESSURE = ±50 PSF



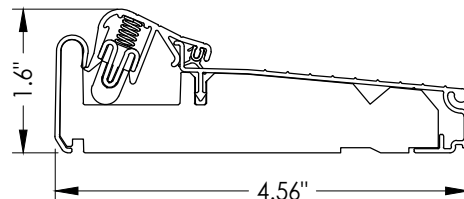
6 **INSWING ARTICULATING THRESHOLD**
ZACL4565
MAX. DESIGN PRESSURE = +45/-50 PSF



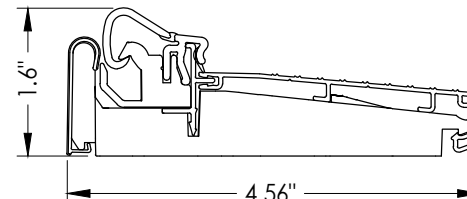
7 **INSWING ARTICULATING THRESHOLD**
ZAC4565FN
MAX. DESIGN PRESSURE = +45/-50 PSF



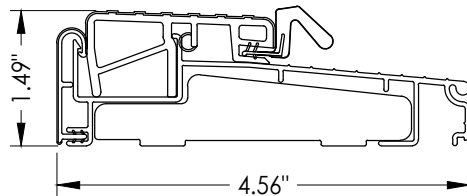
8 **INSWING ARTICULATING THRESHOLD**
ZACLAA4565
MAX. DESIGN PRESSURE = +45/-50 PSF



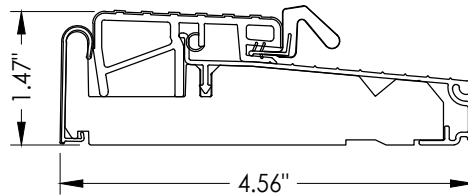
9 **INSWING ARTICULATING THRESHOLD**
ZACAA4565FN
MAX. DESIGN PRESSURE = +45/-50 PSF



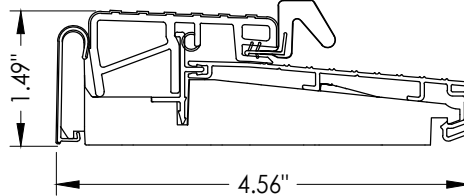
10 **INSWING ARTICULATING THRESHOLD**
ZAC4565RDS
MAX. DESIGN PRESSURE = ±45 PSF



11 **OUTSWING THRESHOLD**
ZOBL4565

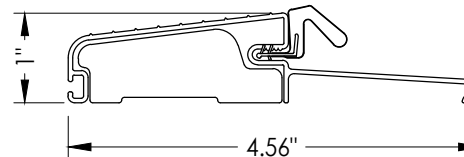


12 **OUTSWING THRESHOLD**
ZOB4565FN



13 **OUTSWING THRESHOLD**
ZOB4565RDS

MAX. DESIGN PRESSURE = ±55 PSF



14 **OUTSWING THRESHOLD**
FOB4566

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
THRESHOLD
DETAILS

NO.	DATE	REVISIONS
8	4/15/24	ADD MODERN ASTRAGAL PROFILE
7	7/07/23	UPDATE TO 8TH ED. (2023) FBC
6	8/11/20	UPDATE TO 7TH ED. (2020) FBC
5		
4		
3		
2		
1		

DATE: 8/30/11

SCALE: N.T.S.

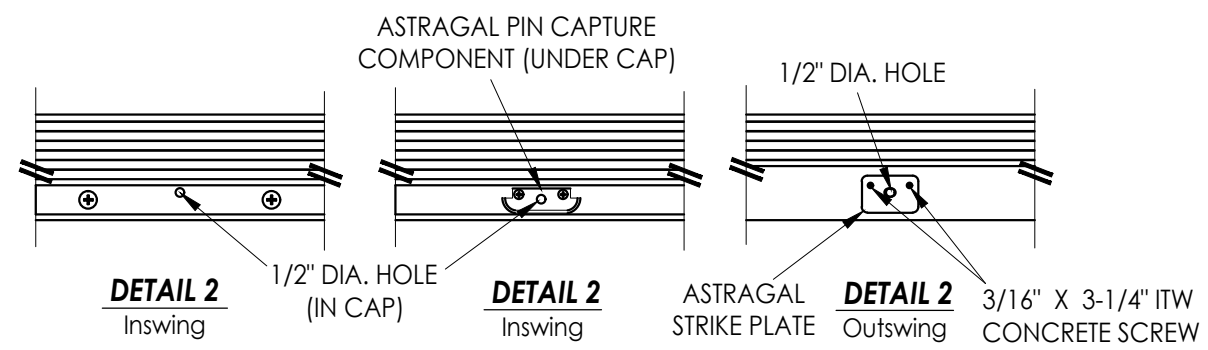
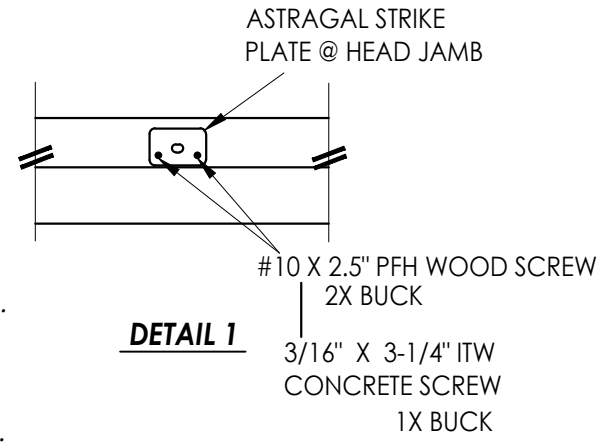
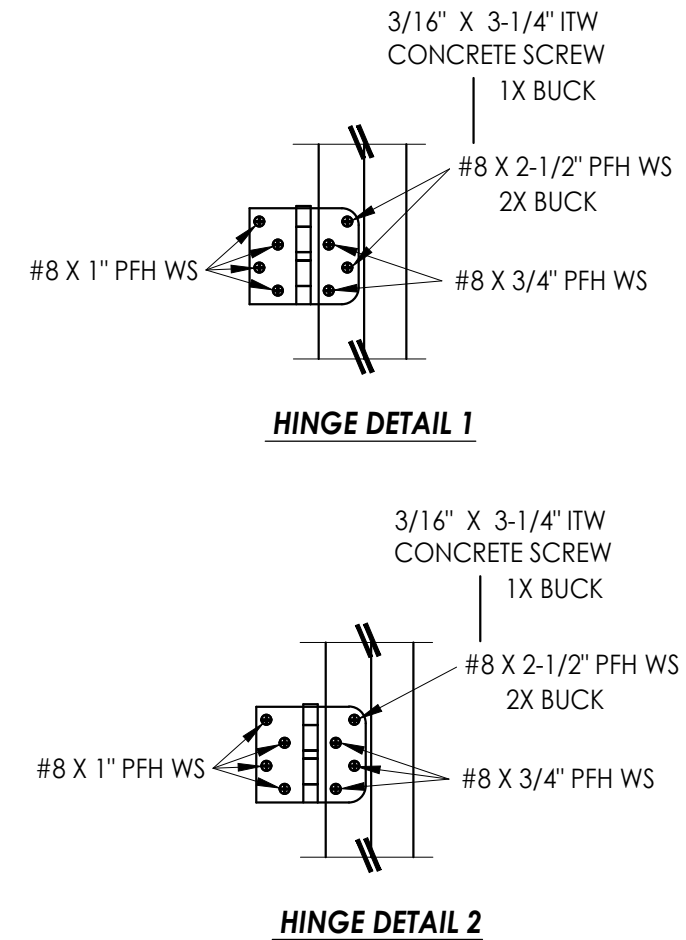
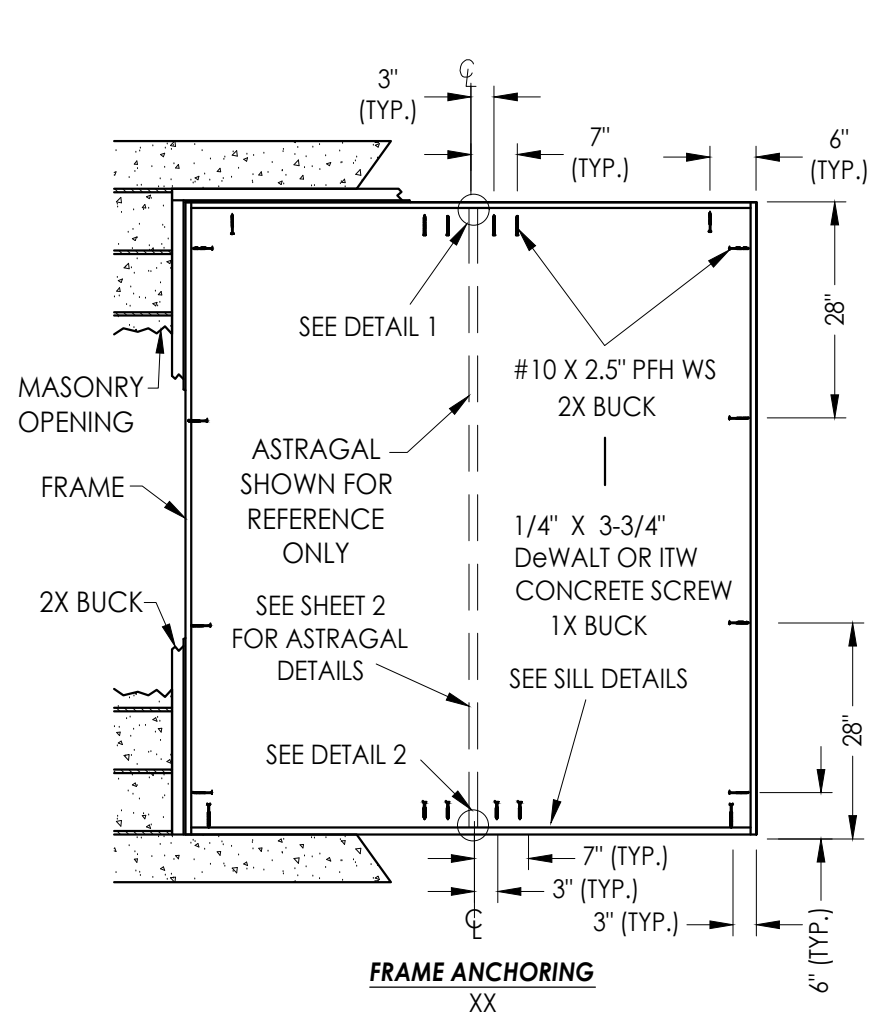
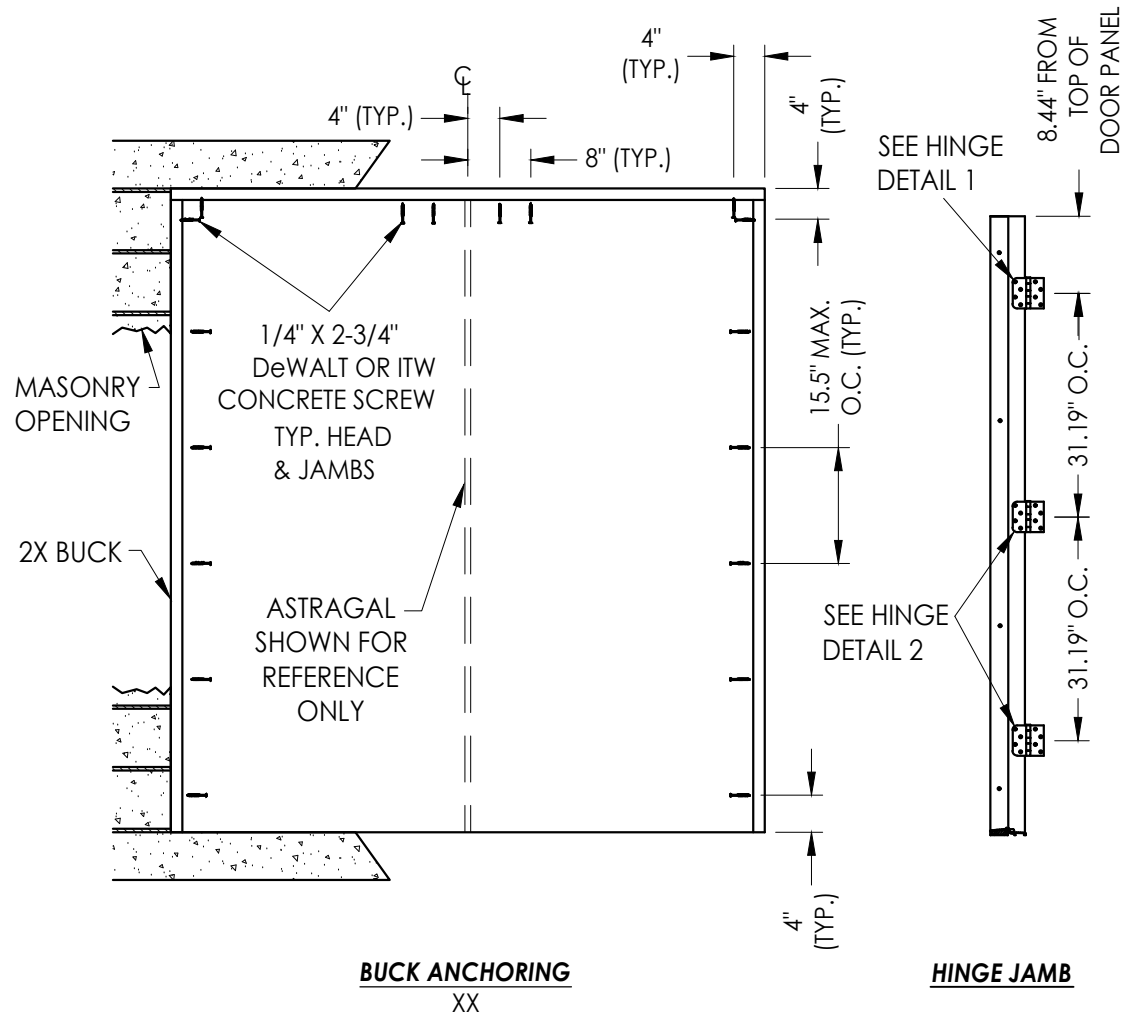
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14823.1

SHEET 5 OF 6

G:\2023 FBC DWGS\Endura Products\FL-14823 R13\FL-14823.1.5.dwg



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®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING

NO.	DATE	REVISIONS
8	4/15/24	ADD MODERN ASTRAGAL PROFILE
7	7/07/23	UPDATE TO 8TH ED. (2023) FBC
6	8/11/20	UPDATE TO 7TH ED. (2020) FBC
5		
4		
3		
2		
1		

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14823.1

SHEET 6 OF 6