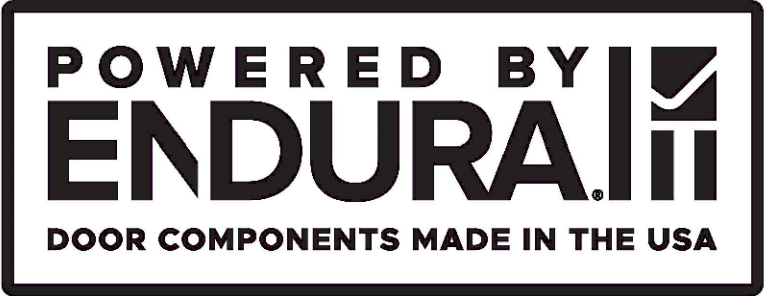


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Ultimate Multipoint Astragal

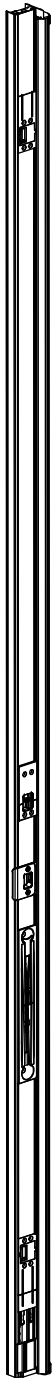
INSWING / OUTSWING

"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.

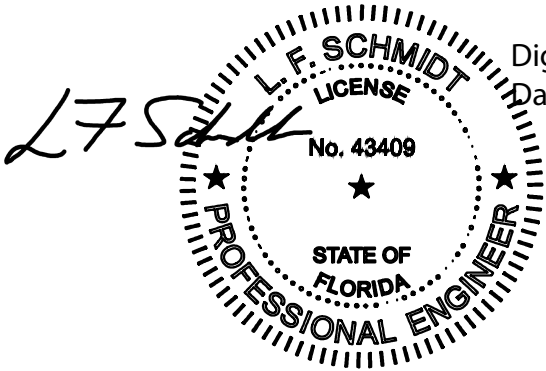
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Astragal details
3	Door panel details
4	Horizontal and vertical cross sections
5	Threshold details
6	Buck and frame anchoring



Ultimate Multipoint Astragal

ULTIMATE MULTIPOINT ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE Flush Glazed (FIBERGLASS)	INSWING	74" X 98"	+40.0	-45.0
	OUTSWING	74" X 97.12"	+40.0	-40.0

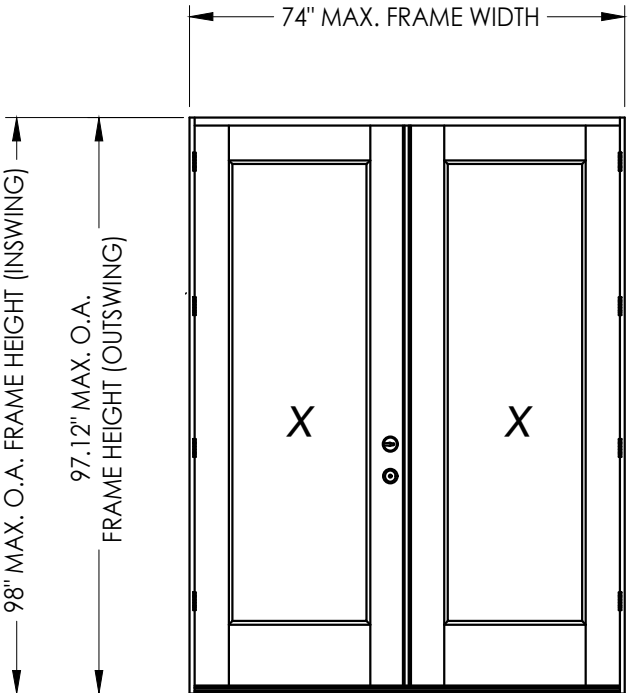
See Sheet 5 for Threshold Design Pressure Limitations



Digitally signed by Lyndon F Schmidt
Date: 2023.07.13 15:12:52 -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

ENDURA

PRODUCT:

Part or Assembly:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

77/06/23UPDATE TO 8TH ED. (2023) FBC

68/03/20UPDATE TO 7TH ED. (2020) FBC

59/05/17UPDATE TO 6TH ED. (2017) FBC

46/13/16ADD THRESHOLD DETAILS

34/19/16ADD ALUMINUM ARTICULATING SILL

NO. DATE

REVISIONS

Building Consultants, Inc.
P.O. Box 230, Vairco, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

DATE: 8/30/11

SCALE: N.T.S.

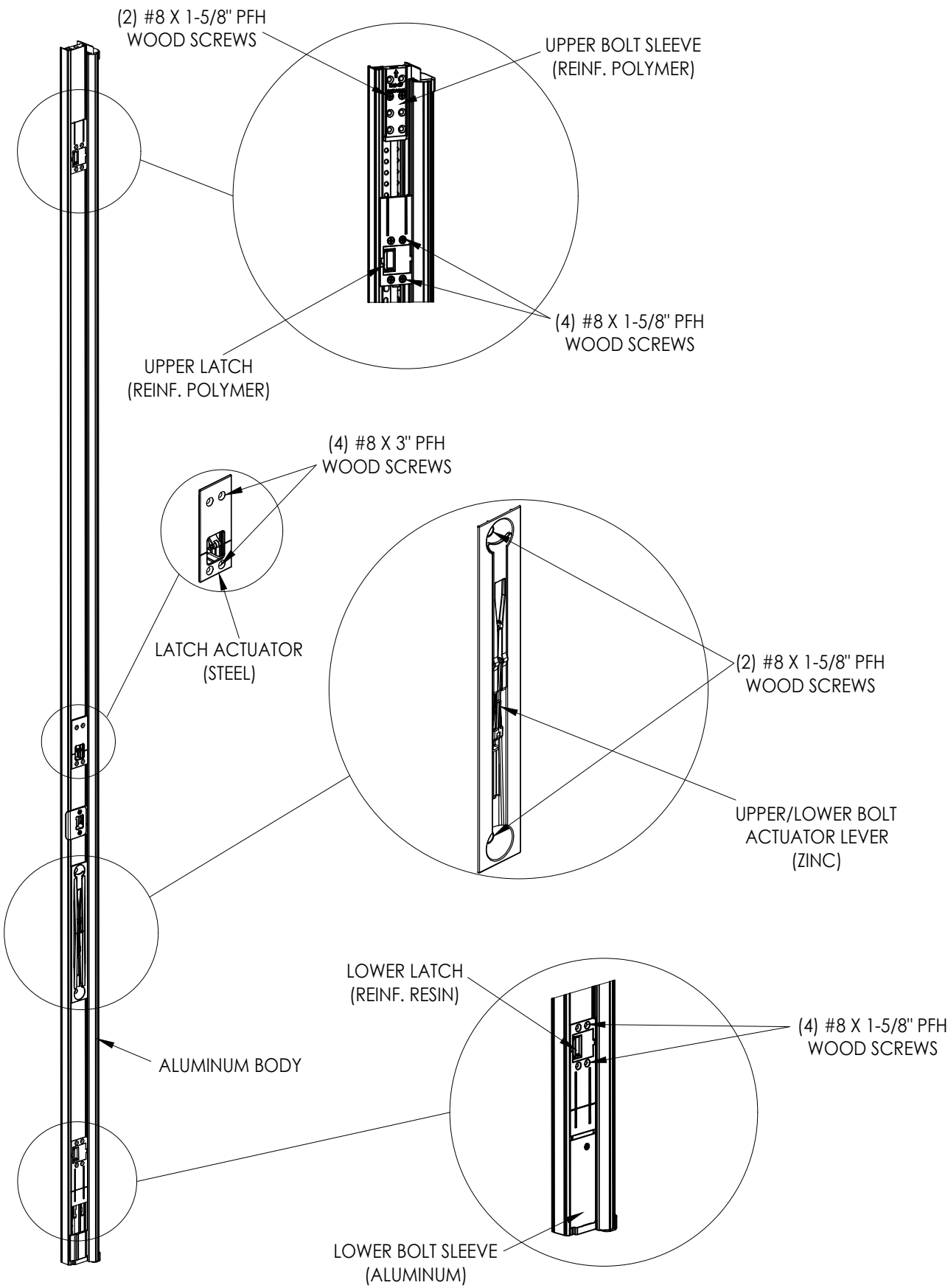
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CHK. BY: LFS

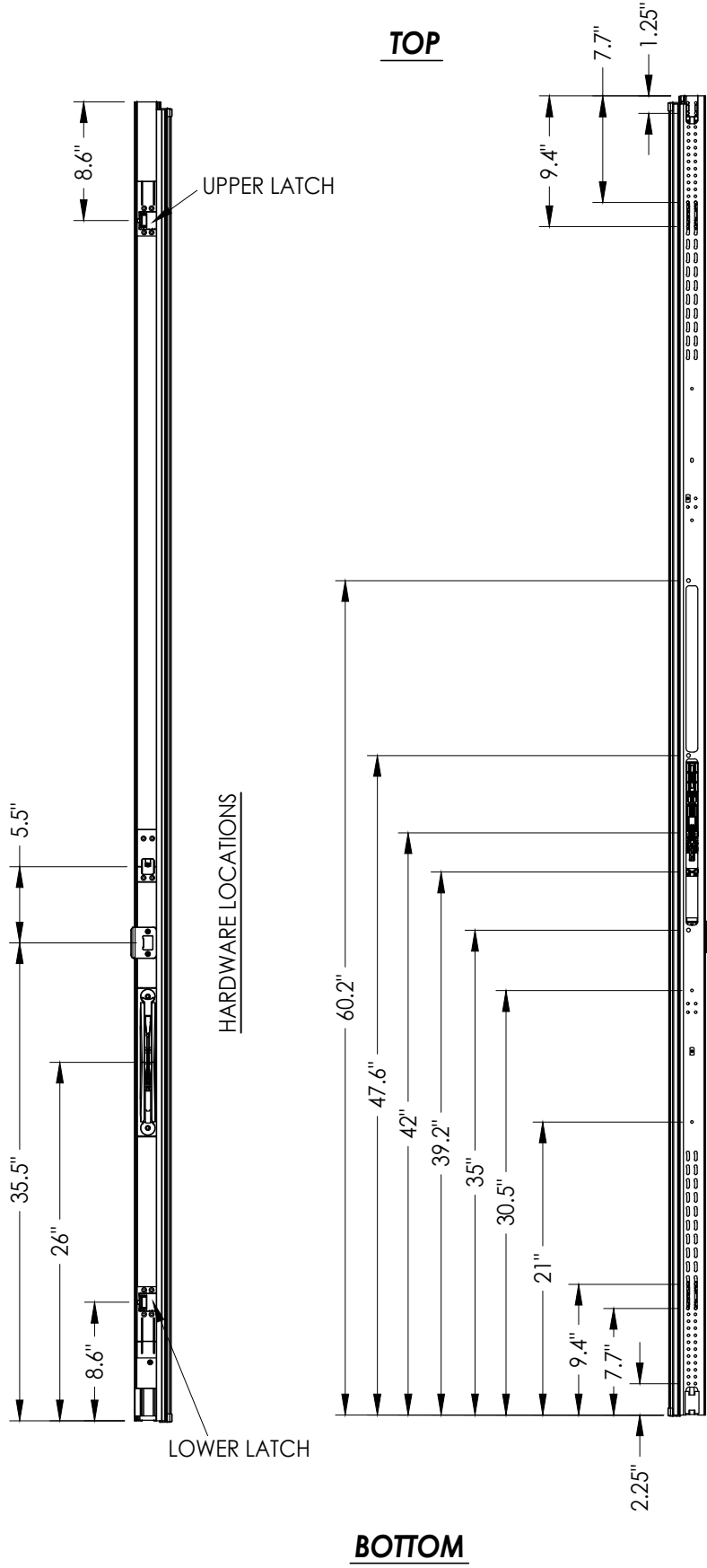
DRAWING NO.: FL-14818.14

SHEET 1 OF 6

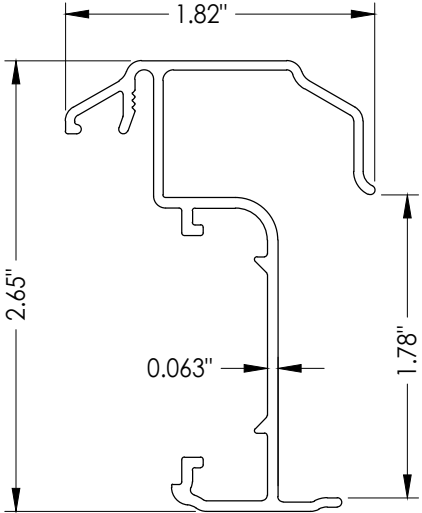
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ULTIMATE MULTIPOINT ASTRAGAL



ANCHOR SCREW LOCATIONS



ASTRAGAL SECTION

REVISIONS	
NO.	DATE
7	7/06/23
6	8/03/20
5	9/05/17
4	6/13/16
3	4/19/16
2	
1	

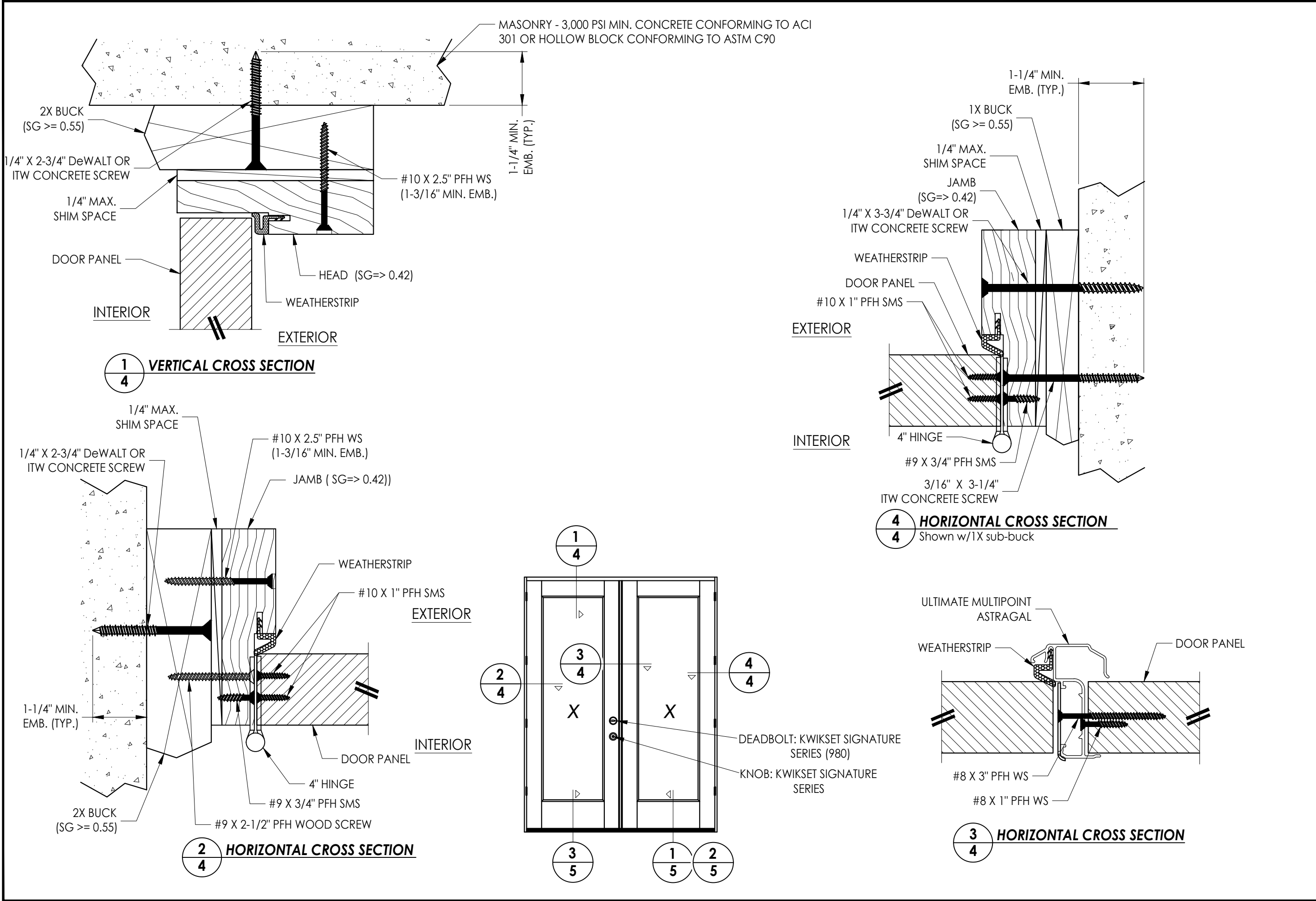
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DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14818.14
SHEET	2 OF 6

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

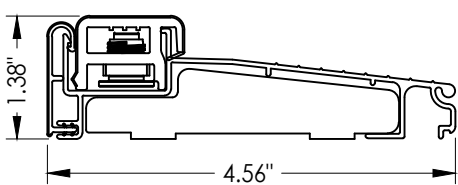
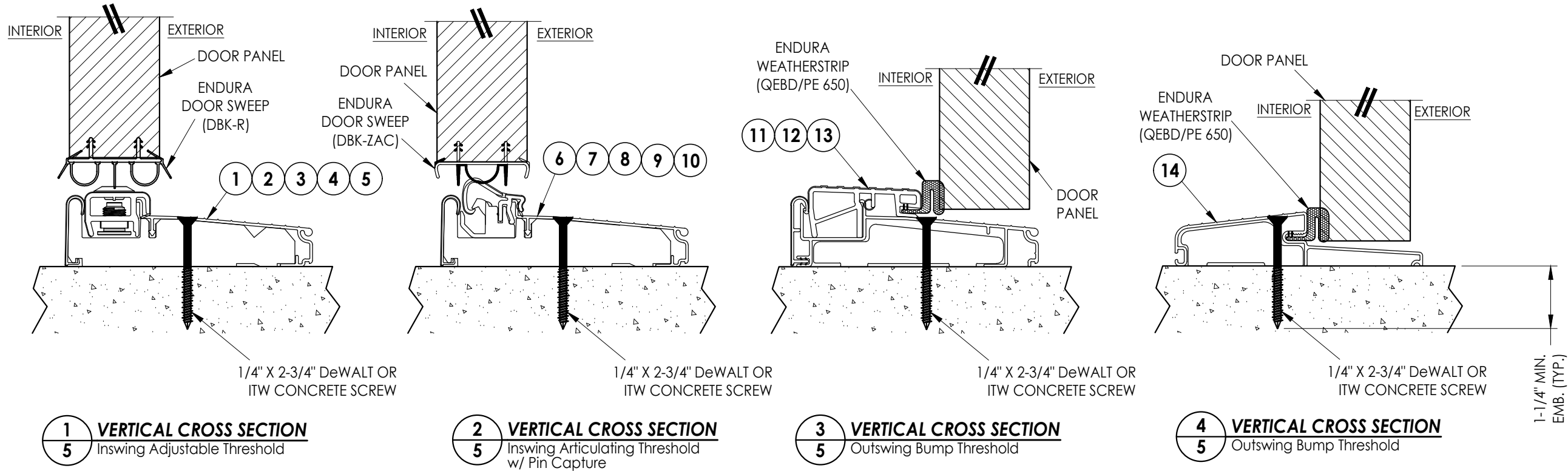
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CHK. BY:	LFS
DRAWING NO.:	FL-14818.14
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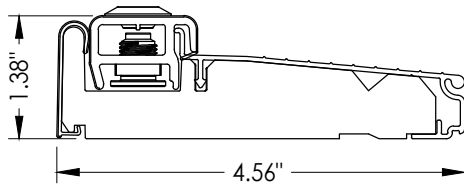


Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409	
PRODUCT:		ENDURA		PART OR ASSEMBLY:	
				HORIZONTAL AND VERTICAL CROSS SECTIONS	
7	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
6	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
5	9/05/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
4	6/13/16	ADD THRESHOLD DETAILS		LFS	
3	4/19/16	ADD ALUMINUM ARTICULATING SILL		LFS	
	NO.	DATE		BY	
REVISIONS					
DATE: 8/30/11					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-14818.14					
SHEET 4 OF 6					

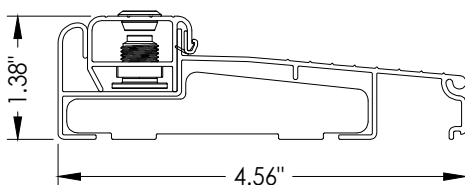
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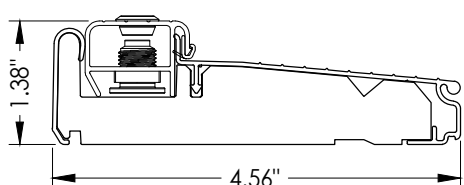
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ZAIL4565



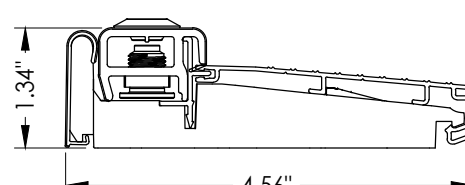
2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565

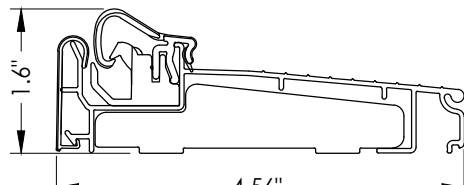


4 INSWING ADJUSTABLE THRESHOLD
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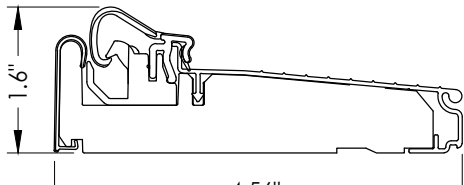


5 INSWING ADJUSTABLE THRESHOLD
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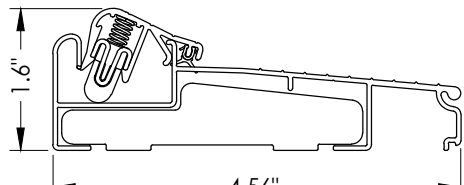
MAX. DESIGN PRESSURE = ±40 PSF



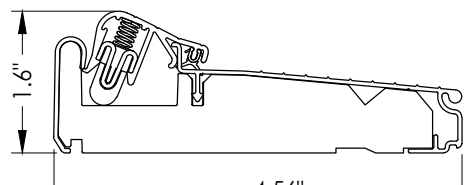
6 INSWING ARTICULATING THRESHOLD
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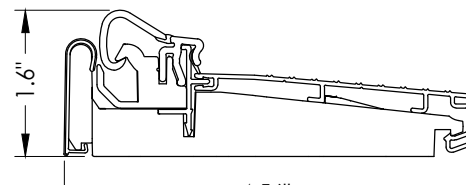
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN



8 INSWING ARTICULATING THRESHOLD
ZACLA4565

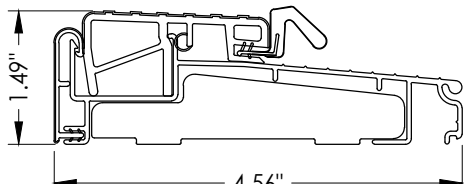


9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN

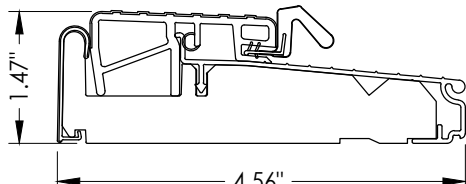


10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

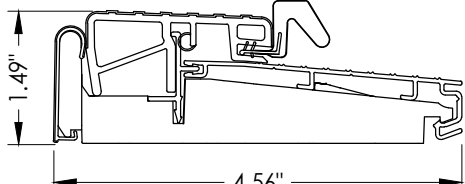
MAX. DESIGN PRESSURE = ±35 PSF



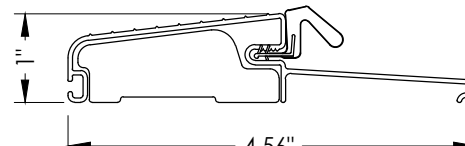
11 OUTSWING THRESHOLD
ZOBL4565



12 OUTSWING THRESHOLD
ZOB4565FN



13 OUTSWING THRESHOLD
ZOB4565RDS



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			
		BY	LFS	FBC	LFS
7	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
6	8/03/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
5	9/05/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
4	6/13/16	ADD THRESHOLD DETAILS			
3	4/19/16	ADD ALUMINUM ARTICULATING SILL			

DATE: 8/30/11

SCALE: N.T.S.

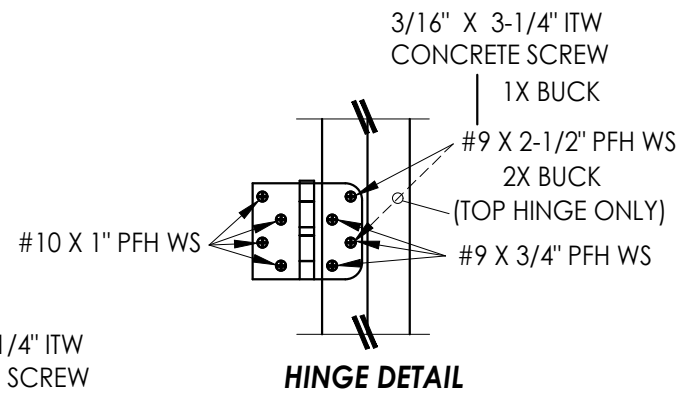
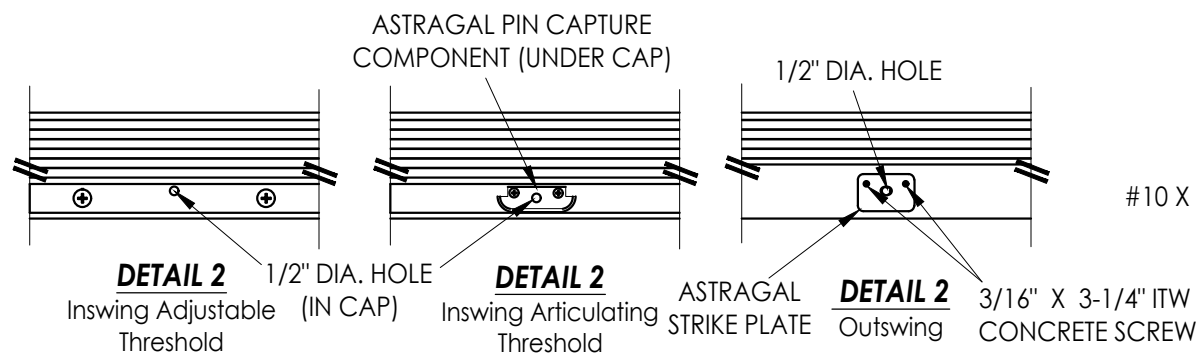
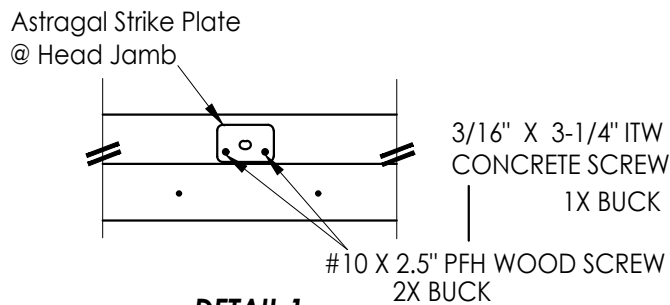
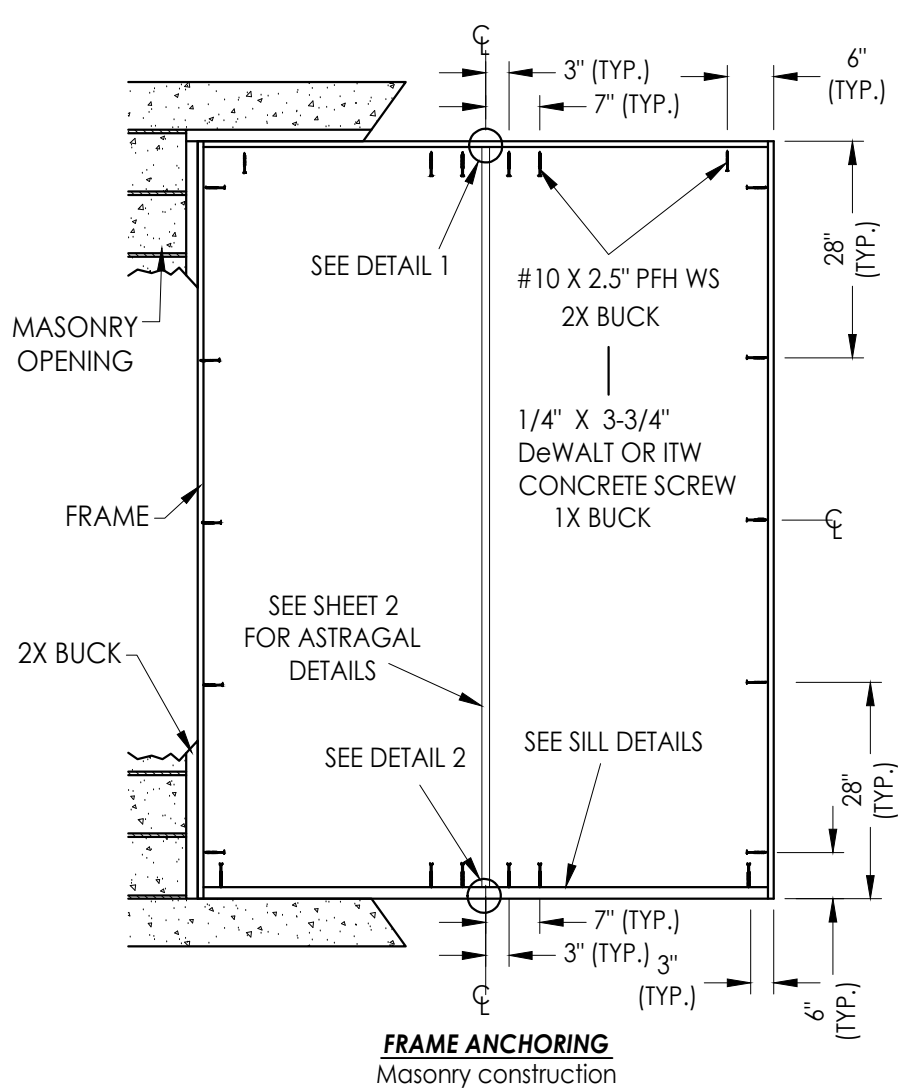
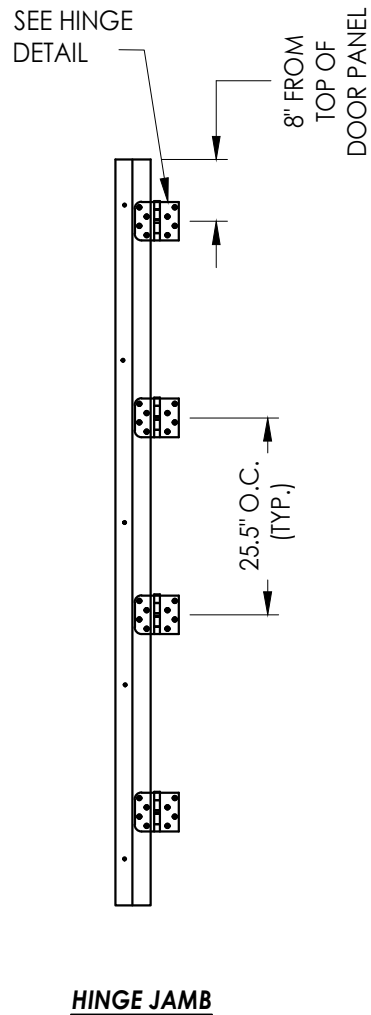
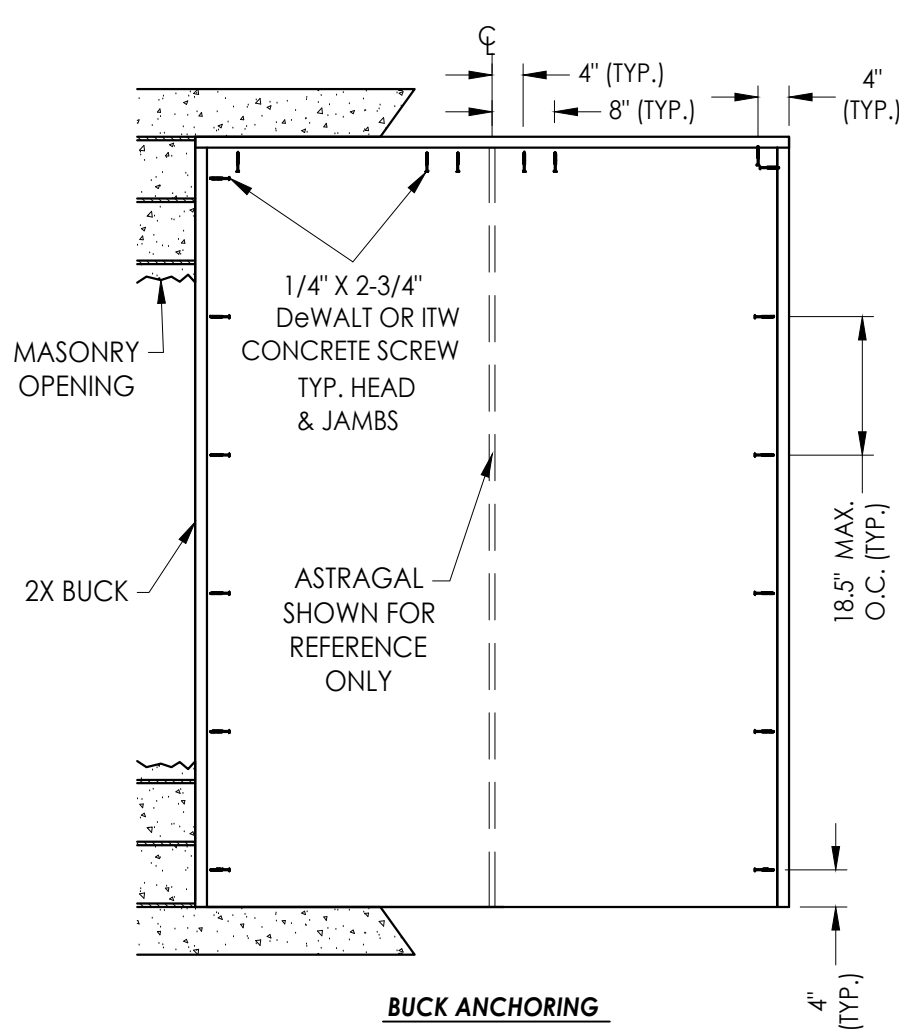
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14818.14

SHEET 5 OF 6

Z:\2023 FBC Drawings\Endura Products\FL-14818 R9\FL-14818.11-18.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®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA CON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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

ENDURA

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

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

NO.	DATE	REVISIONS
7	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS
5	9/05/17	UPDATE TO 6TH ED. (2017) FBC LFS
4	6/13/16	ADD THRESHOLD DETAILS LFS
3	4/19/16	ADD ALUMINUM ARTICULATING SILL LFS
NO.	DATE	BY
DATE: 8/30/11		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: FL-14818.14		
SHEET 6 OF 6		