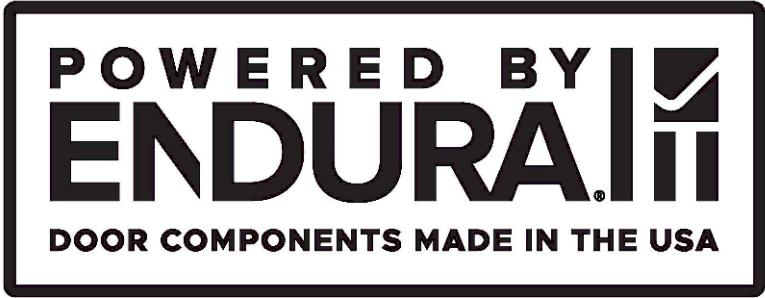


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Ultimate Hurricane Astragal

INSWING / OUTSWING

"NON-IMPACT"

GENERAL NOTES

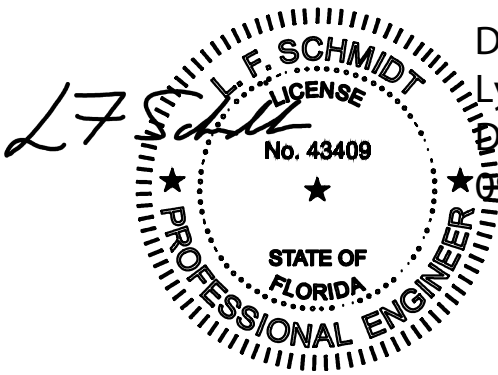
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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



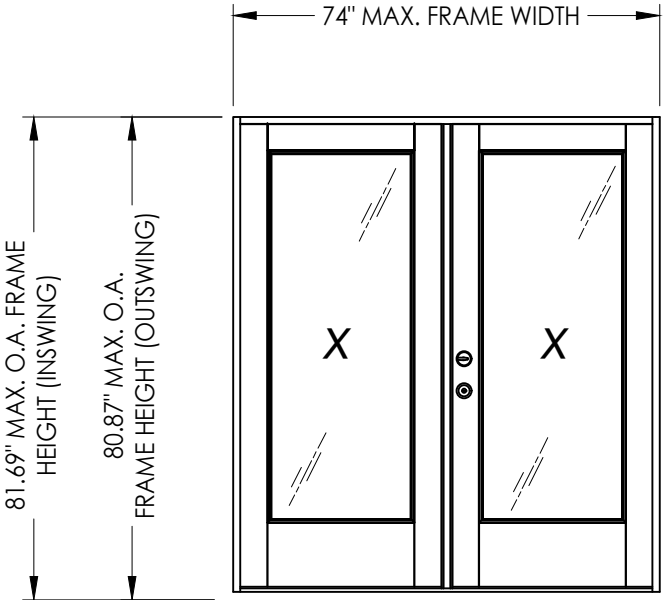
Ultimate Hurricane Astragal

ULTIMATE HURRICANE ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
JELD-WEN Insert Glazed (STEEL)	INSWING	74" X 81.69"	+55.0	-55.0
	OUTSWING	74" X 80.87"	+55.0	-55.0



Digitally signed by
Lyndon F Schmidt
Date: 2023.07.20
09:09:42 -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

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

7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
6	8/12/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
5	6/06/18	UPDATE FOR NEW TESTING		LFS
4	9/08/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
3	6/8/16	ADD THRESHOLD DETAILS		LFS
NO.	DATE			BY

REVISIONS

DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

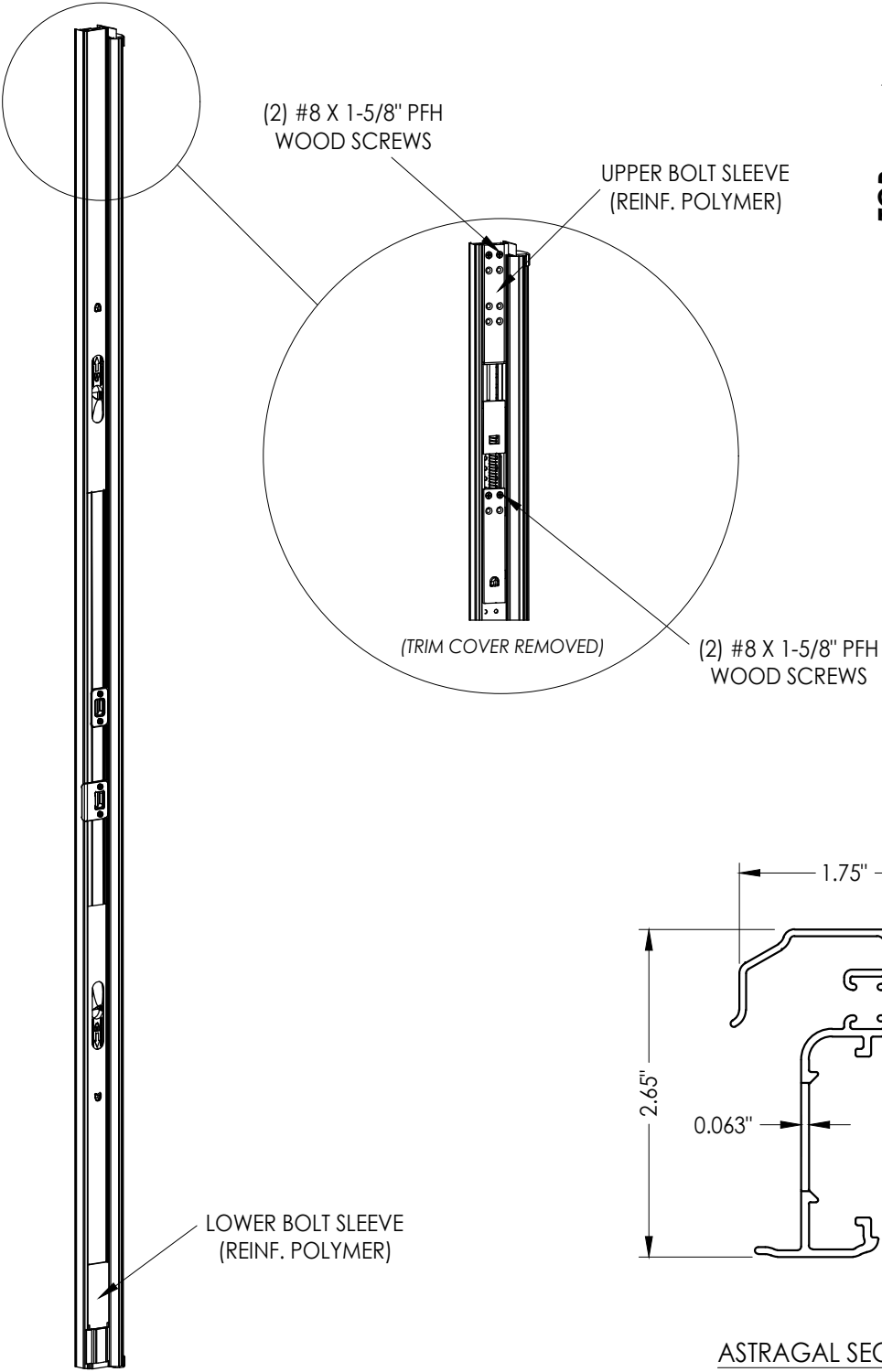
DRAWING NO.: FL-16634.8

SHEET 1 OF 6

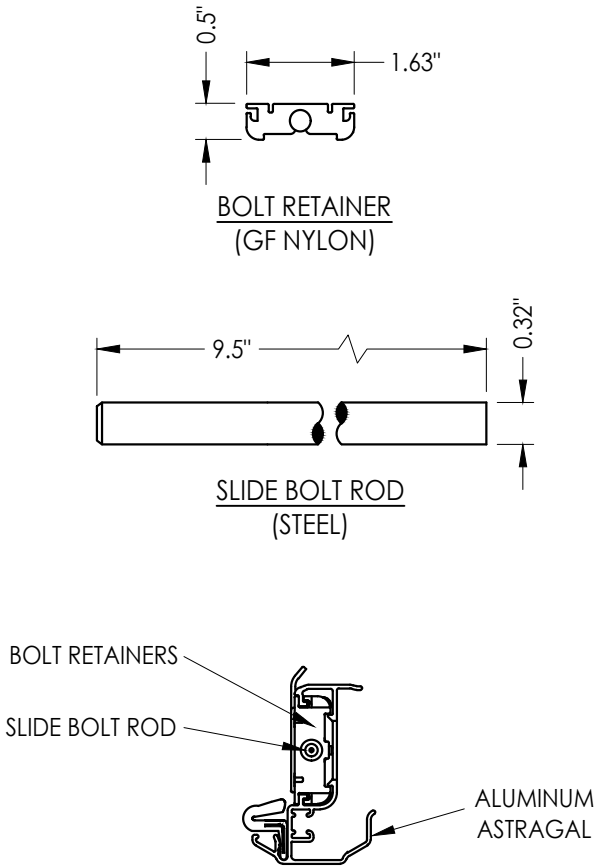
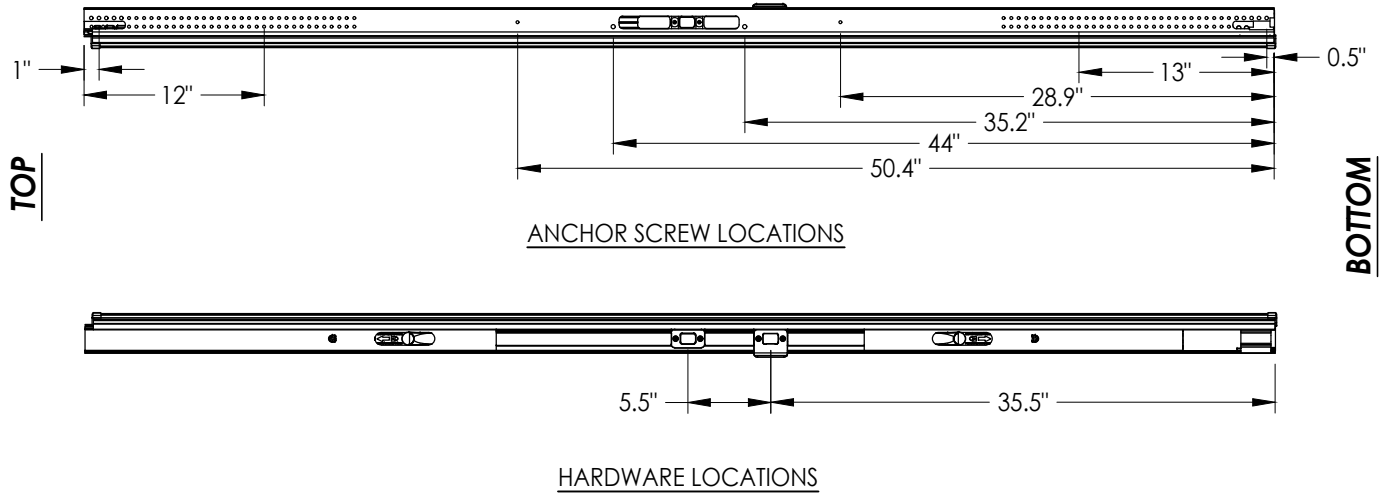
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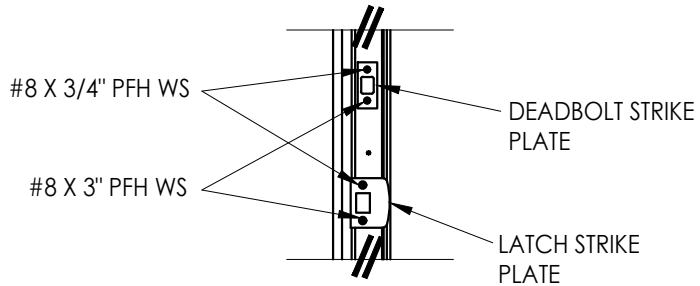
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ULTIMATE HURRICANE ASTRAGAL



ALUMINUM ASTRAGAL ASSEMBLY



LATCH & DEADBOLT DETAIL

NO.	DATE	REVISIONS
7	7/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	8/12/20	UPDATE TO 7TH ED. (2020) FBC LFS
5	6/06/18	UPDATE FOR NEW TESTING LFS
4	9/08/17	UPDATE TO 6TH ED. (2017) FBC LFS
3	6/8/16	ADD THRESHOLD DETAILS LFS
2		
1		

DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-16634.8

SHEET 2 OF 6

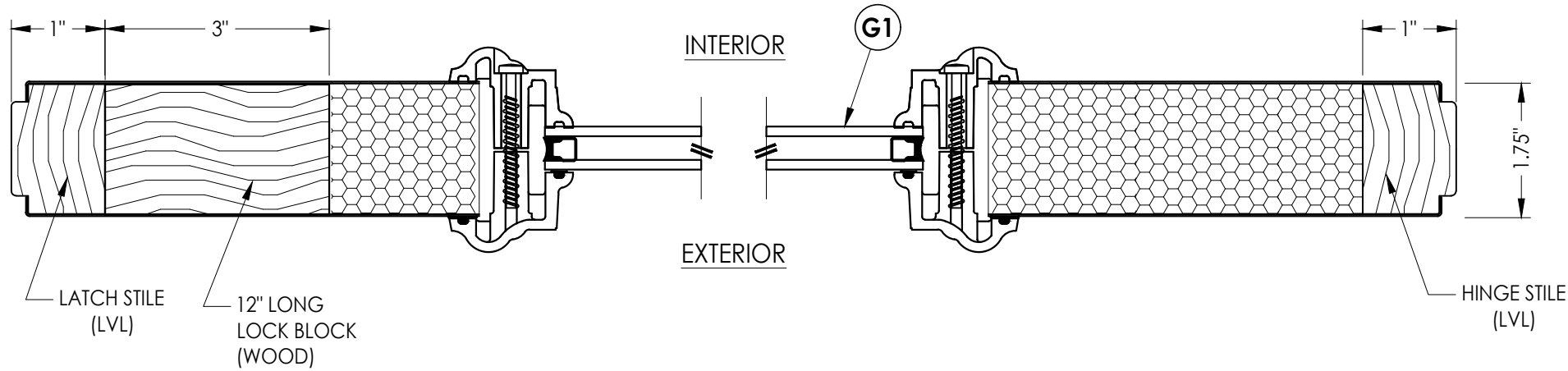
Documents Prepared By:
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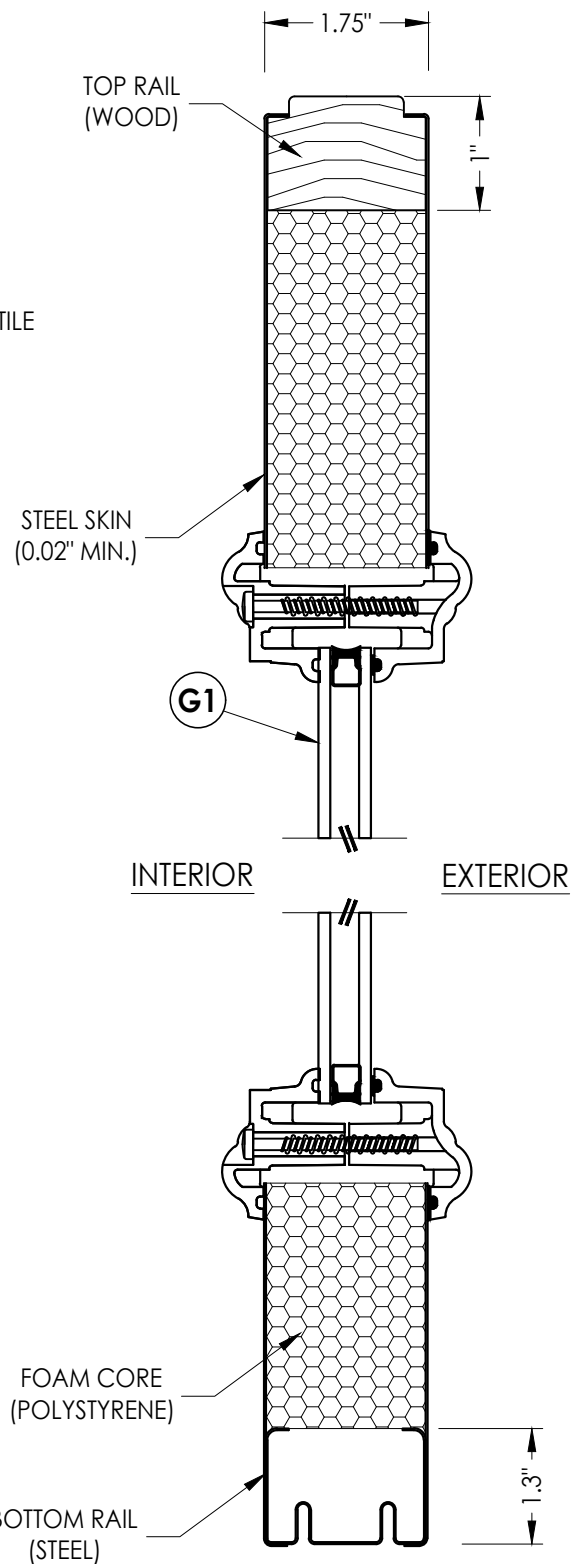
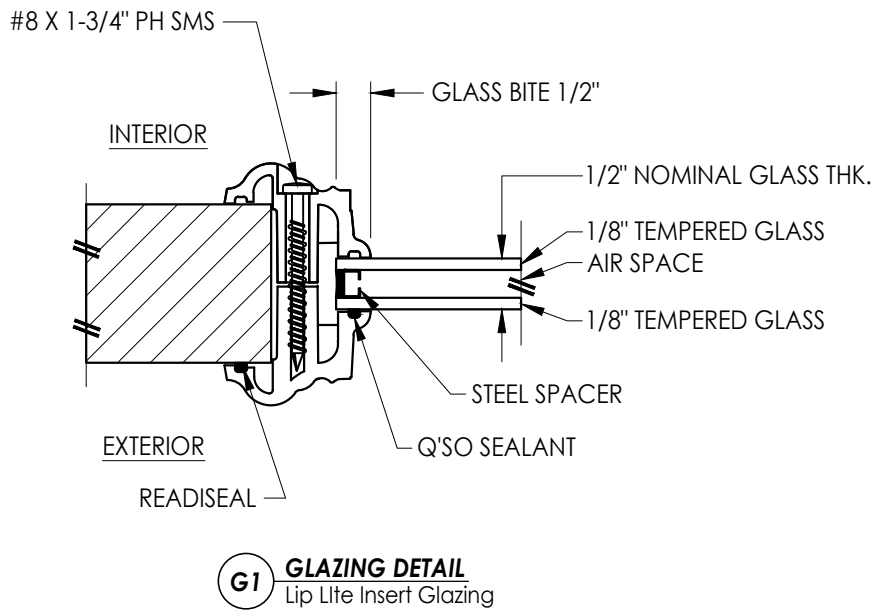
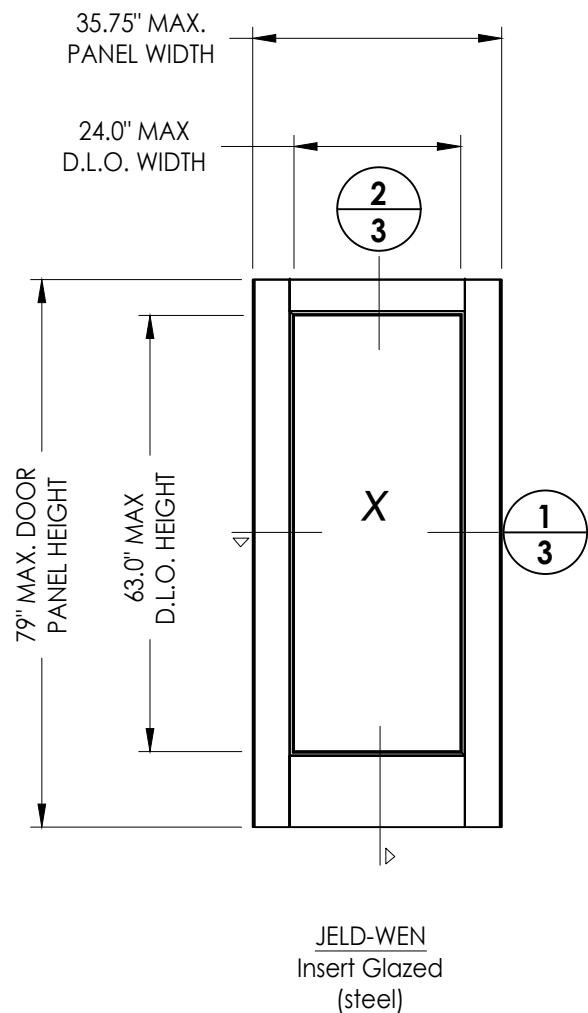
PRODUCT: ENDURA

PART OR ASSEMBLY:
ASTRAGAL DETAILS
(ULTIMATE HURRICANE)

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1
3 HORIZONTAL CROSS SECTION



NO.	DATE	REVISIONS
7	7/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	8/12/20	UPDATE TO 7TH ED. (2020) FBC LFS
5	6/06/18	UPDATE FOR NEW TESTING LFS
4	9/08/17	UPDATE TO 6TH ED. (2017) FBC LFS
3	6/8/16	ADD THRESHOLD DETAILS LFS

DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16634.8

SHEET 3 OF 6

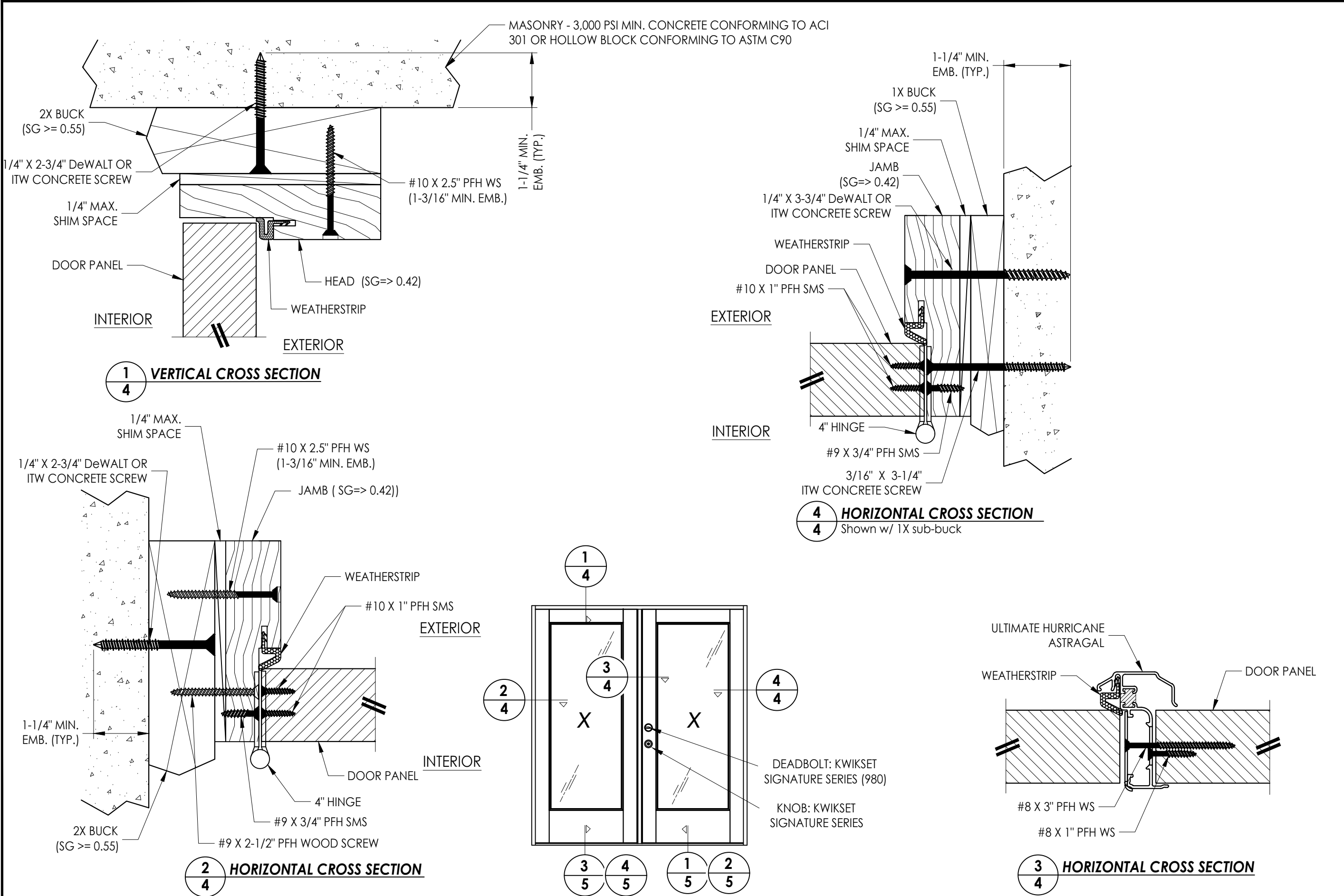
PRODUCT: ENDURA

PART OR ASSEMBLY: DOOR PANEL DETAILS & GLAZING DETAIL

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P.E. No. 43409

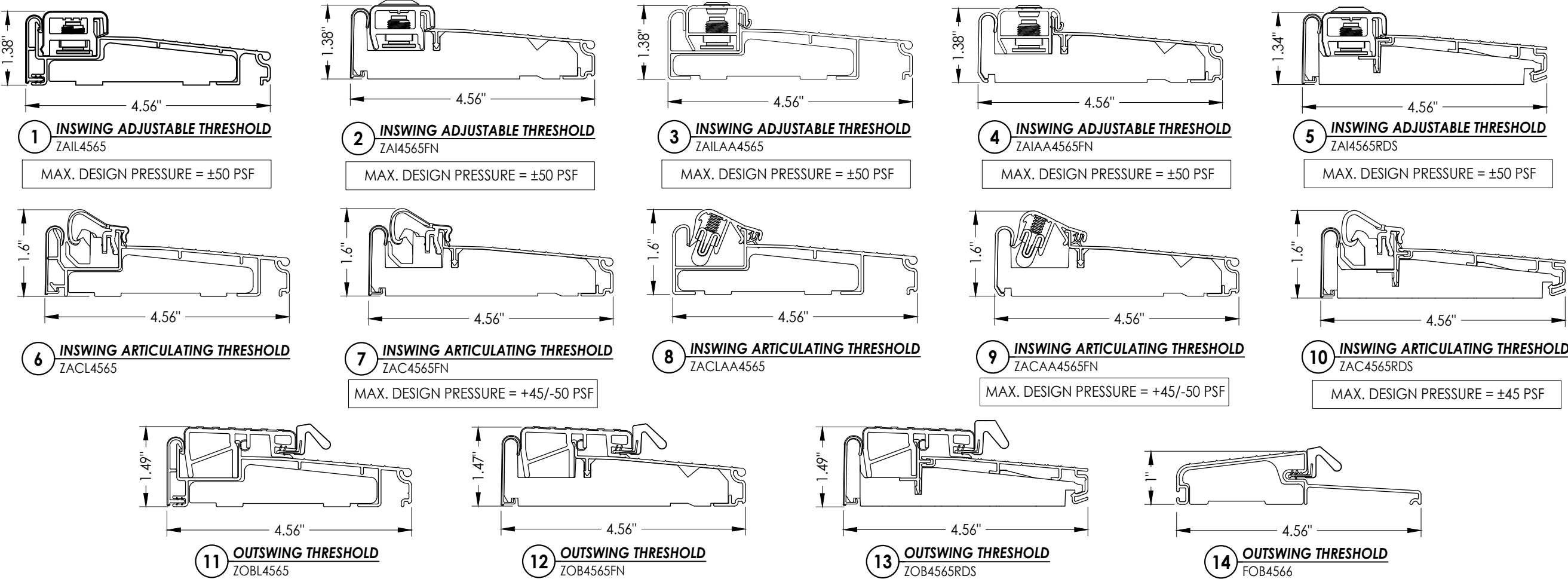
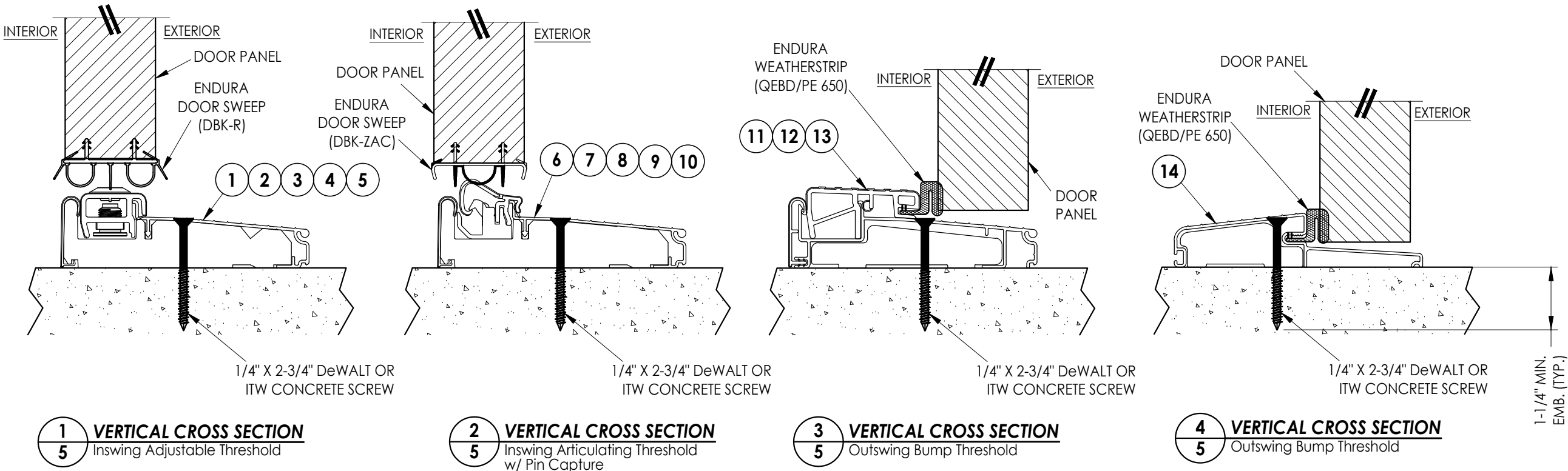
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Phone No.: 813.659.9197
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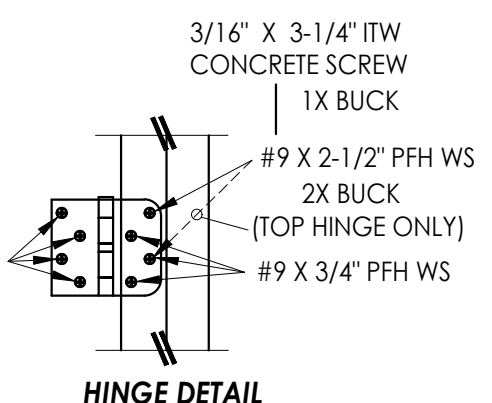
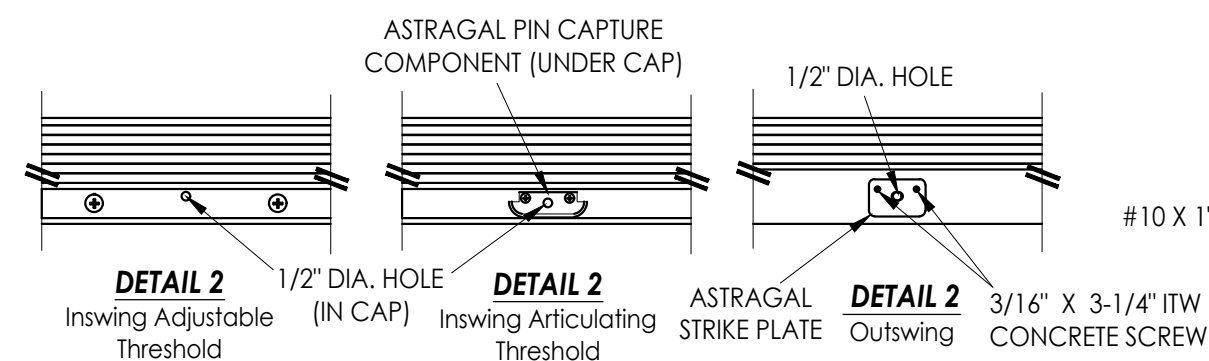
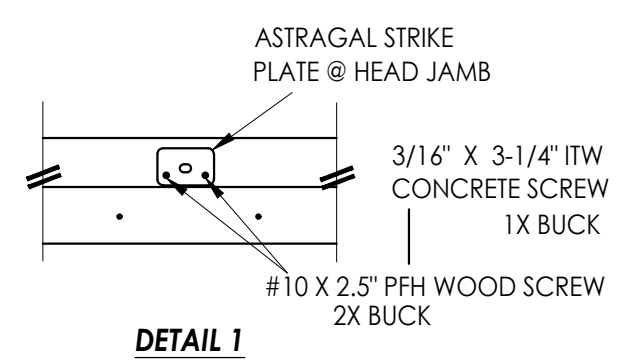
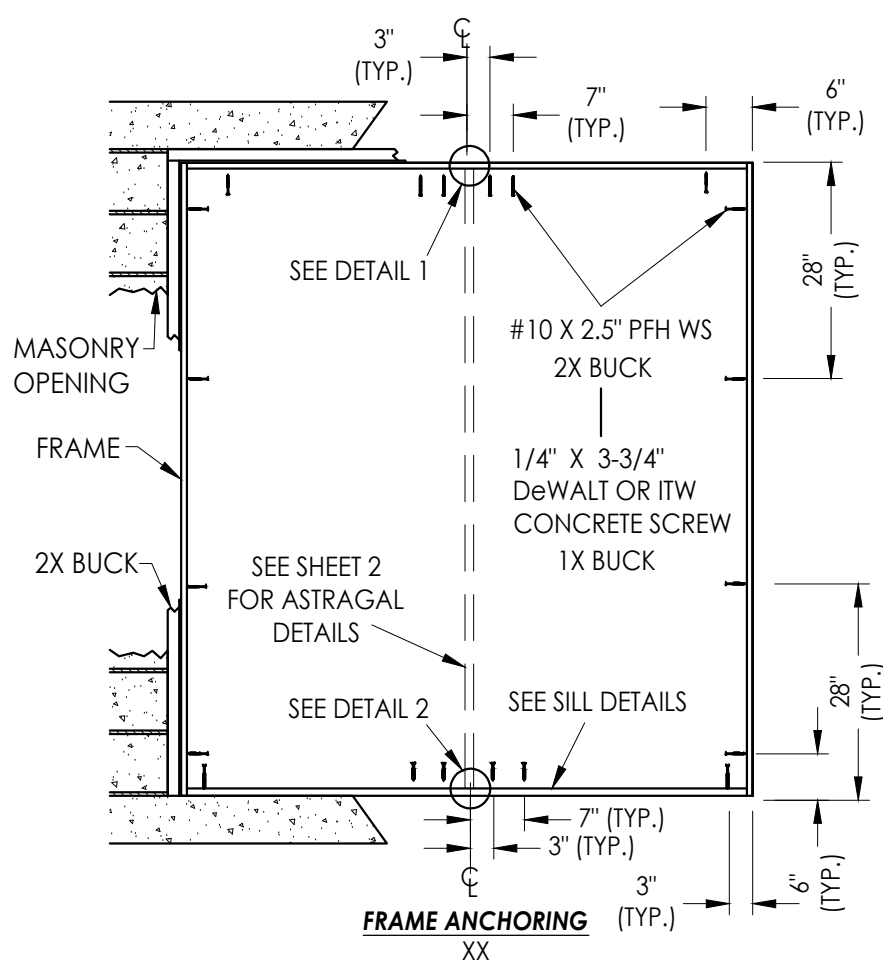
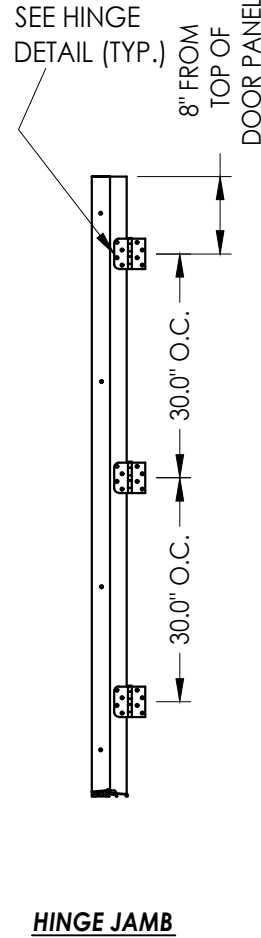
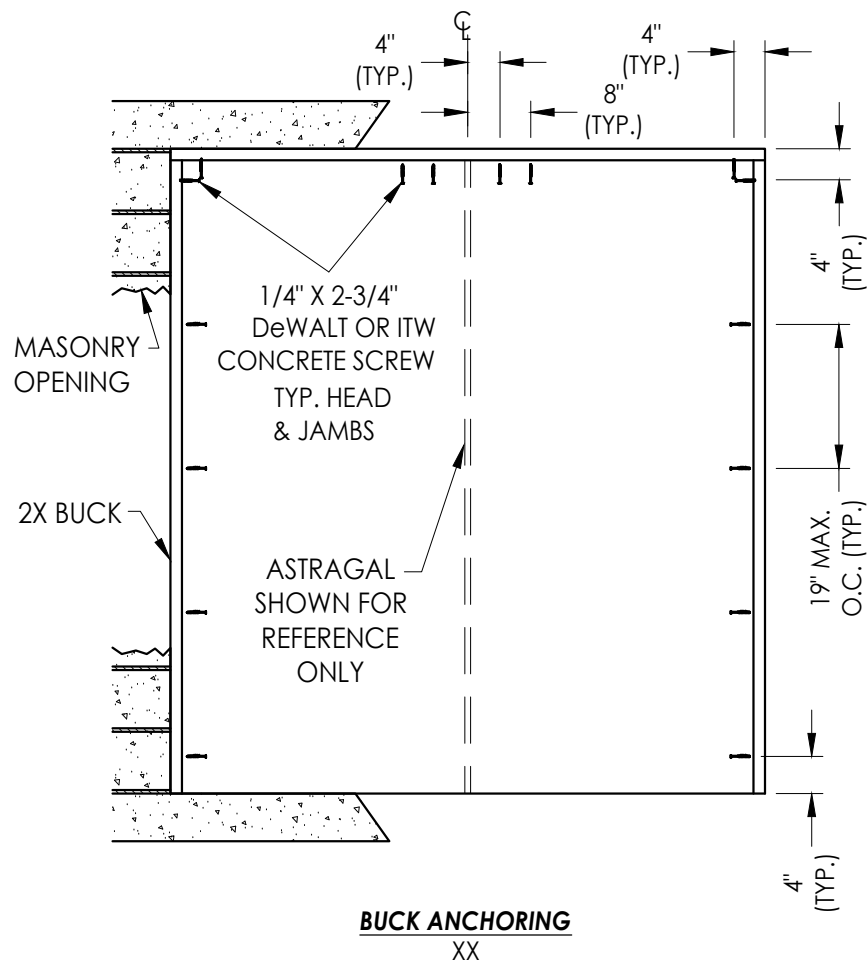
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PRODUCT: ENDURA		PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS	
7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC LFS
6	8/12/20	UPDATE TO 7TH ED. (2020)	FBC LFS
5	6/06/18	UPDATE FOR NEW TESTING	LFS
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3	6/8/16	ADD THRESHOLD DETAILS	LFS
NO.	DATE	REVISIONS	
DATE: 10/24/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16634.8			
SHEET 4 OF 6			

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- 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 ULTRACON® | 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:
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P.E. No. 43409

PRODUCT: ENDURA

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING

7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
6	8/12/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
5	6/06/18	UPDATE FOR NEW TESTING	LFS	LFS
4	9/08/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
3	6/8/16	ADD THRESHOLD DETAILS	LFS	LFS
NO.	DATE			BY

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DWG. BY: JK

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SHEET 6 OF 6

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