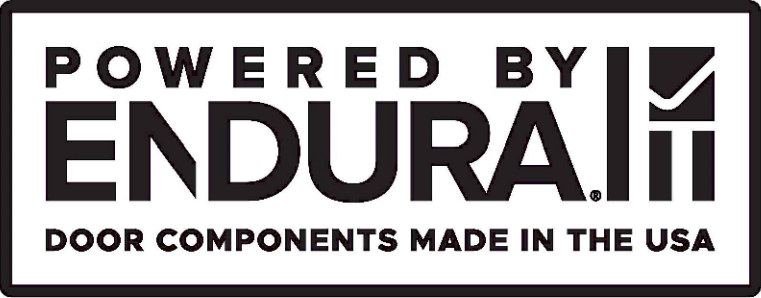


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Ultimate Hurricane Astragal

INSWING / OUTSWING

"NON-IMPACT"

GENERAL NOTES

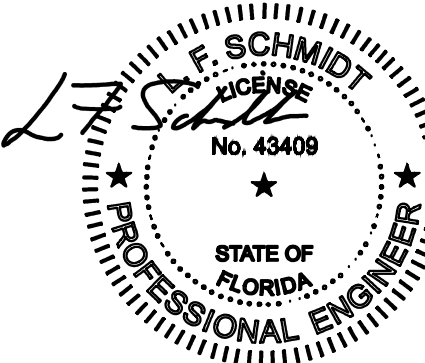
- 1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- 2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall 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 98"	+40.0	-45.0
	OUTSWING	74" X 97.12"	+35.0	-35.0



Digitally signed by
Lyndon F Schmidt
Date: 2023.07.20
09:15:22 -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	6/06/18	UPDATE FOR NEW TESTING		LFS
5	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	9/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
3	6/9/16	ADD THRESHOLD DETAILS		LFS
NO.	DATE			BY

REVISIONS

DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

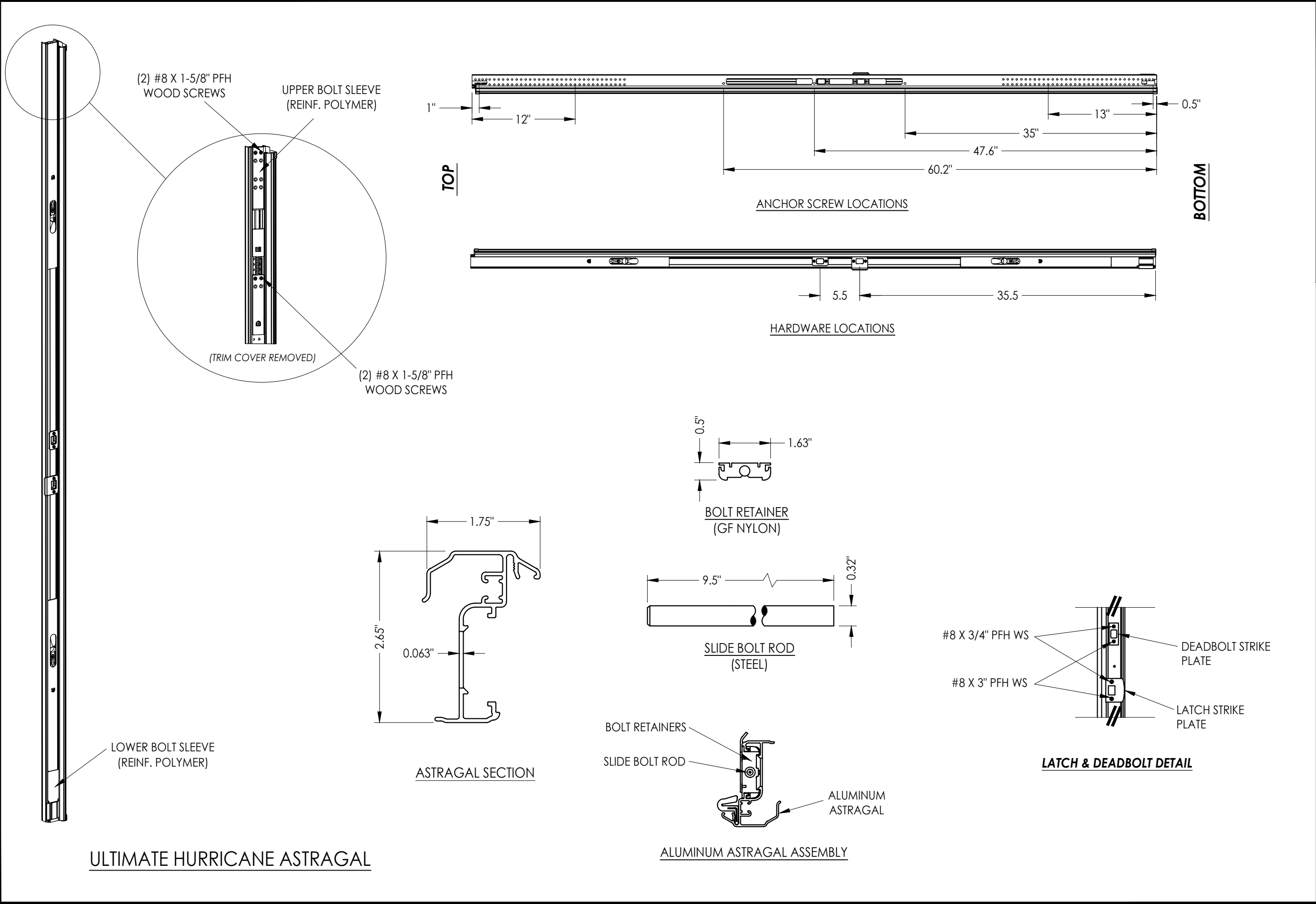
CHK. BY: LFS

DRAWING NO.:
FL-16634.16

SHEET 1 OF 6

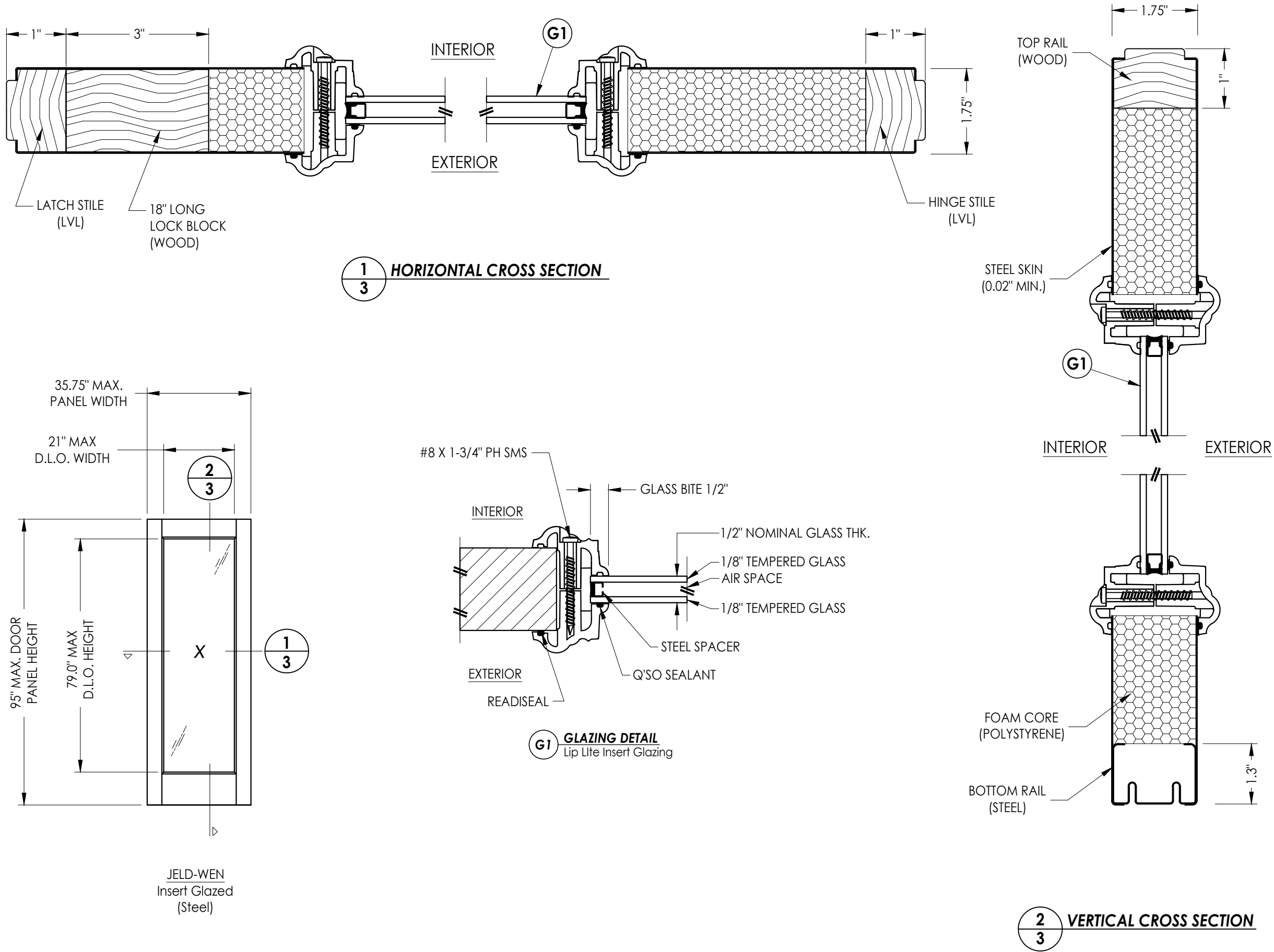
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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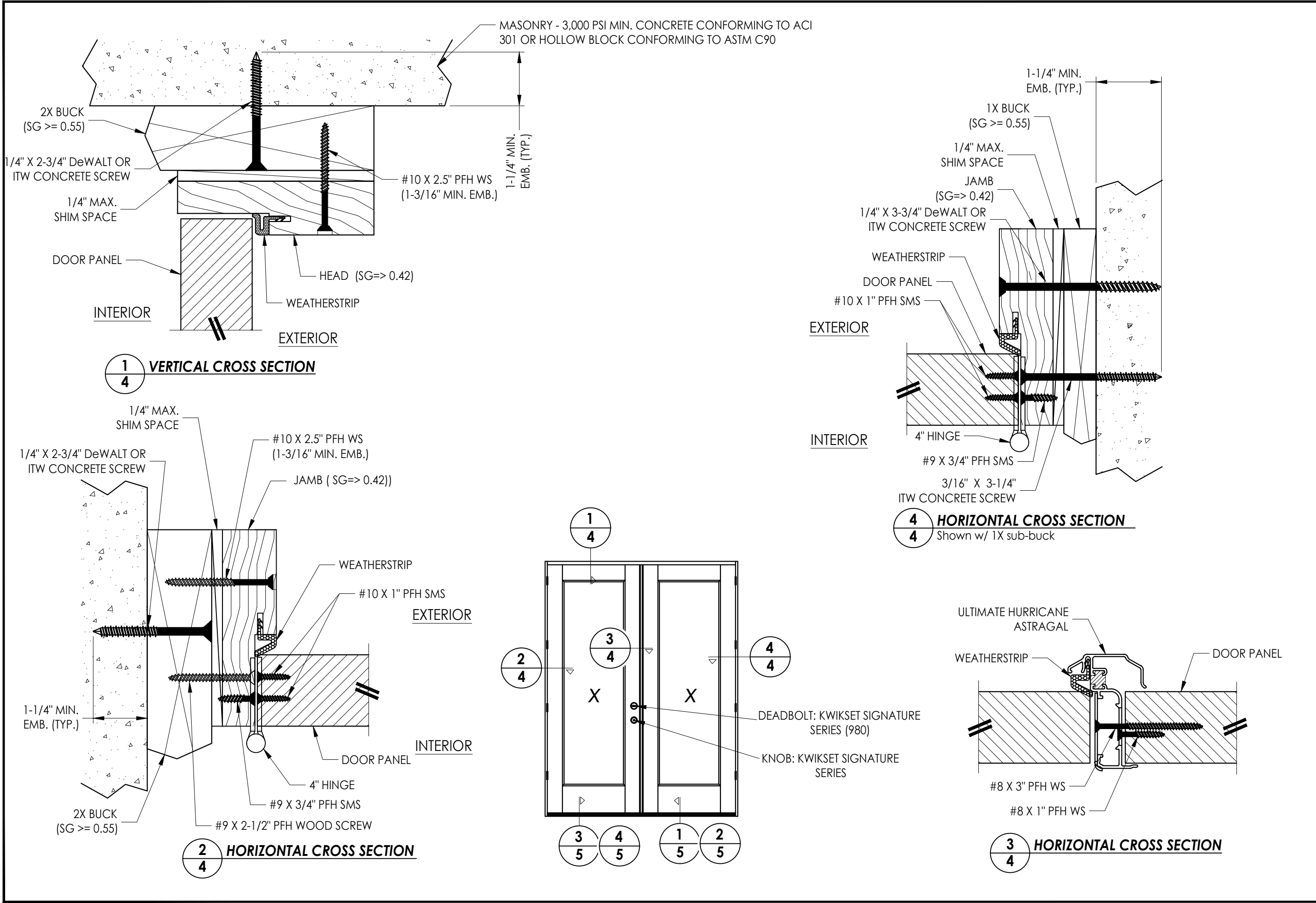
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: ENDURA				PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE HURRICANE)			
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6	6/06/18	UPDATE FOR NEW TESTING		LFS			
5	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
4	9/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
3	6/9/16	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-16634.16							
SHEET 2 OF 6							

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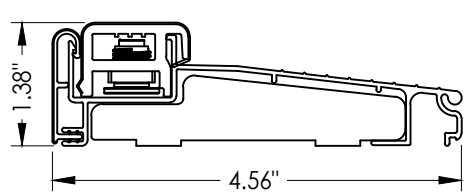
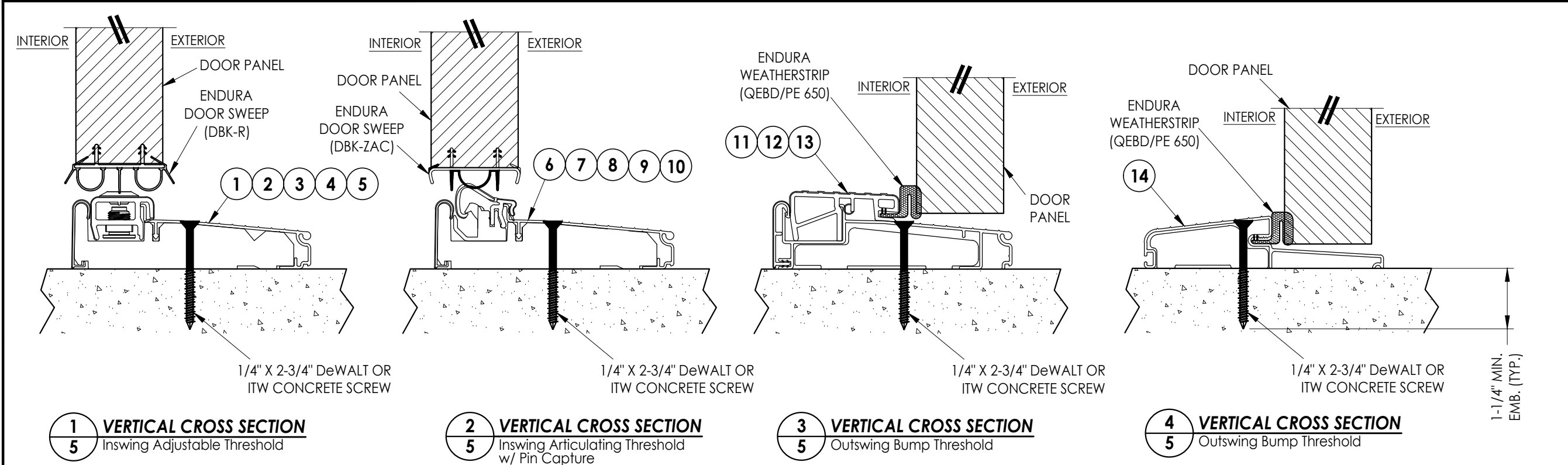
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: ENDURA		PART OR ASSEMBLY: DOOR PANEL DETAILS & GLAZING DETAIL	
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6	6/06/18	UPDATE FOR NEW TESTING	LFS
5	7/07/23	UPDATE TO 8TH ED. (2023)	FBC
4	9/18/17	UPDATE TO 6TH ED. (2017)	FBC
3	6/9/16	ADD THRESHOLD DETAILS	LFS
NO. DATE		REVISIONS	
DATE: 10/24/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16634.16			
SHEET 3 OF 6			

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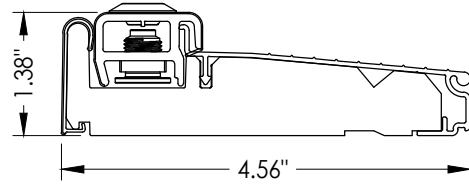


Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409		BUILDING CONSULTANTS, INC.		P.O. Box 230, Valrico, FL 33595		Phone No.: 813.659.9197		FBPE Registry No. 9813	
PRODUCT:		ENDURA		PART OR ASSEMBLY:		HORIZONTAL AND VERTICAL CROSS SECTIONS							
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	LFS	UPDATE TO 8TH ED. (2023)	FBC		LFS	UPDATE TO 6TH ED. (2017)	FBC						
	LFS	ADD THRESHOLD DETAILS			LFS								
	BY				DATE								
REVISIONS													
7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC										
6	6/06/18	UPDATE FOR NEW TESTING											
5	7/07/23	UPDATE TO 8TH ED. (2023)	FBC										
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3	6/9/16	ADD THRESHOLD DETAILS											
DATE: 10/24/13													
SCALE: N.T.S.													
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CHK. BY: LFS													
DRAWING NO.: FL-16634.16													
SHEET 4 OF 6													

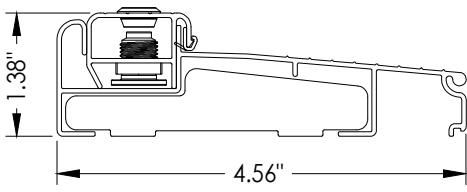
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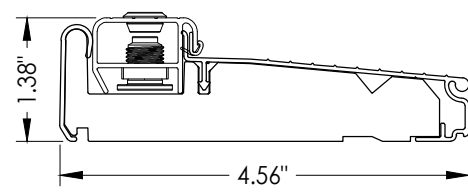
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MAX. DESIGN PRESSURE = ± 40 PSF



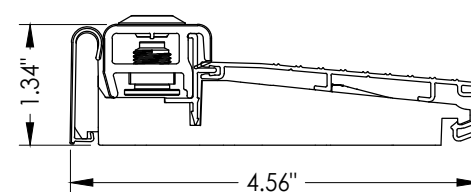
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ZAI4565FN
MAX. DESIGN PRESSURE = ± 40 PSF



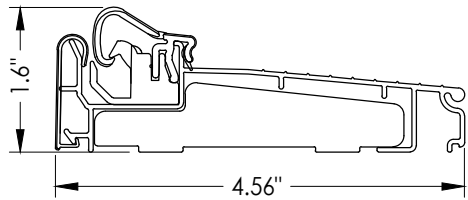
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ZAI4A4565
MAX. DESIGN PRESSURE = ± 40 PSF



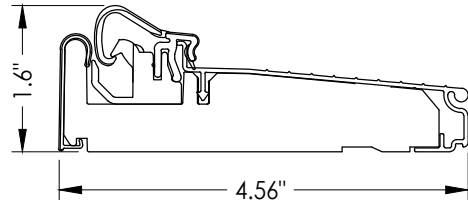
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ZAI4A4565FN
MAX. DESIGN PRESSURE = ± 40 PSF



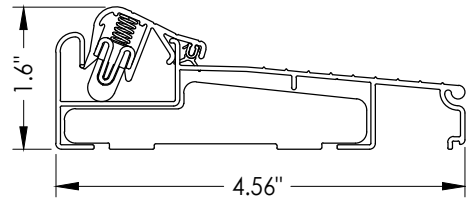
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ZAI4565RDS
MAX. DESIGN PRESSURE = ± 40 PSF



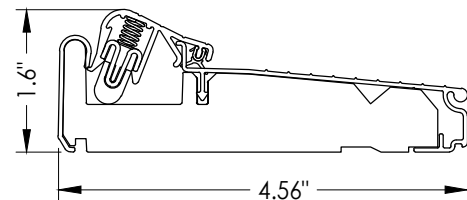
6 INSWING ARTICULATING THRESHOLD
ZACL4565



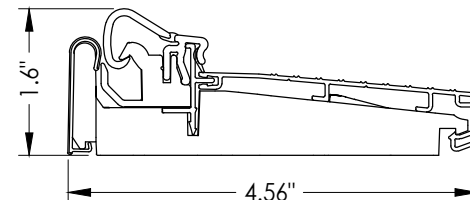
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN
MAX. DESIGN PRESSURE = ± 40 PSF



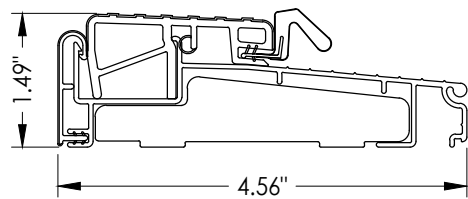
8 INSWING ARTICULATING THRESHOLD
ZACLA4565



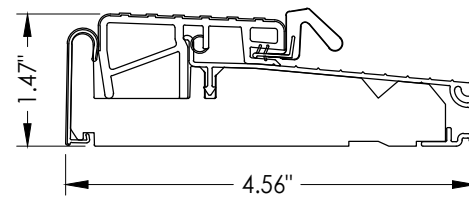
9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN
MAX. DESIGN PRESSURE = ± 40 PSF



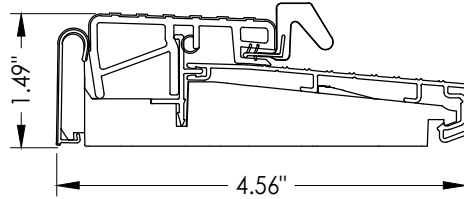
10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS
MAX. DESIGN PRESSURE = ± 35 PSF



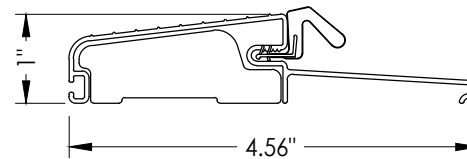
11 OUTSWING THRESHOLD
ZOBL4565



12 OUTSWING THRESHOLD
ZOB4565FN



13 OUTSWING THRESHOLD
ZOB4565RDS



14 OUTSWING THRESHOLD
FOB4566

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

PRODUCT:
ENDURA

		LFS	FBC
7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC
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NO.	DATE	BY	

DATE: 5/24/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16634.16
SHEET 5 OF 6

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PART OR ASSEMBLY:
THRESHOLD
DETAILS

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