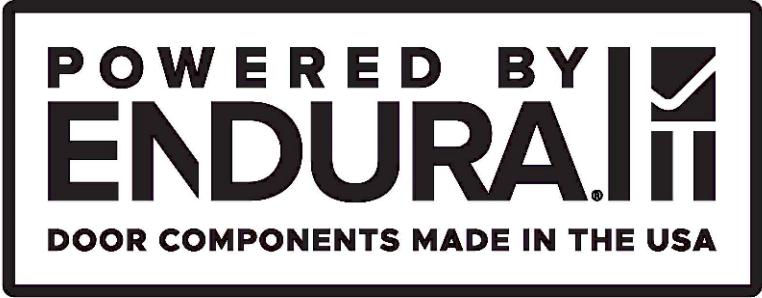


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Ultimate Multipoint Astragal

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.

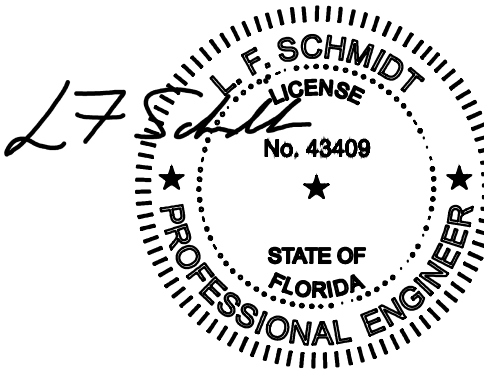
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Astragal details
3	Door panel details
4	Horizontal and vertical cross sections
5	Threshold details
6	Buck and frame anchoring



Ultimate Multipoint Astragal

ULTIMATE MULTIPOINT ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
THREMA TRU Insert Glazed (STEEL)	INSWING	74.44" X 98"	+40.0	-45.0
	OUTSWING	74.44" X 97.12"	+40.0	-40.0

See Sheet 5 for Threshold Design Pressure Limitations

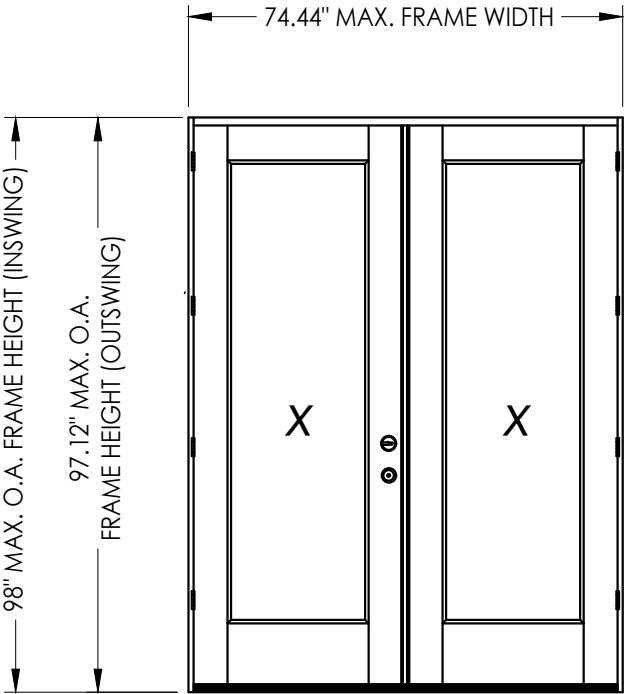


Digitally signed by Lyndon F Schmidt
Date: 2023.07.13 15:12:23 -04'00'

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	7/06/23	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

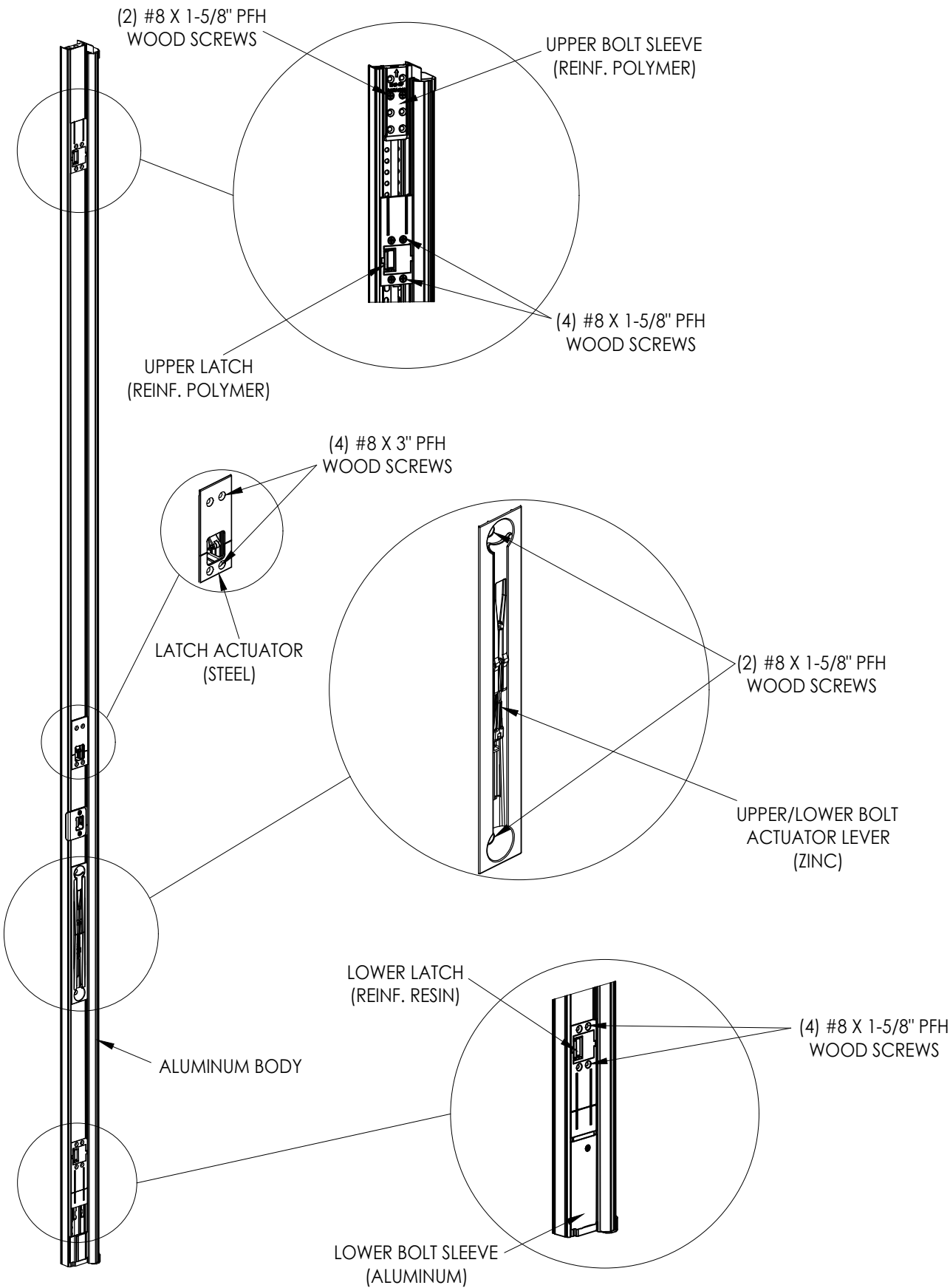
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DRAWING NO.: FL-14818.13

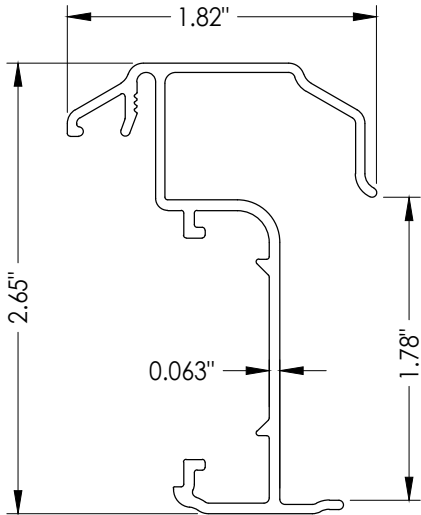
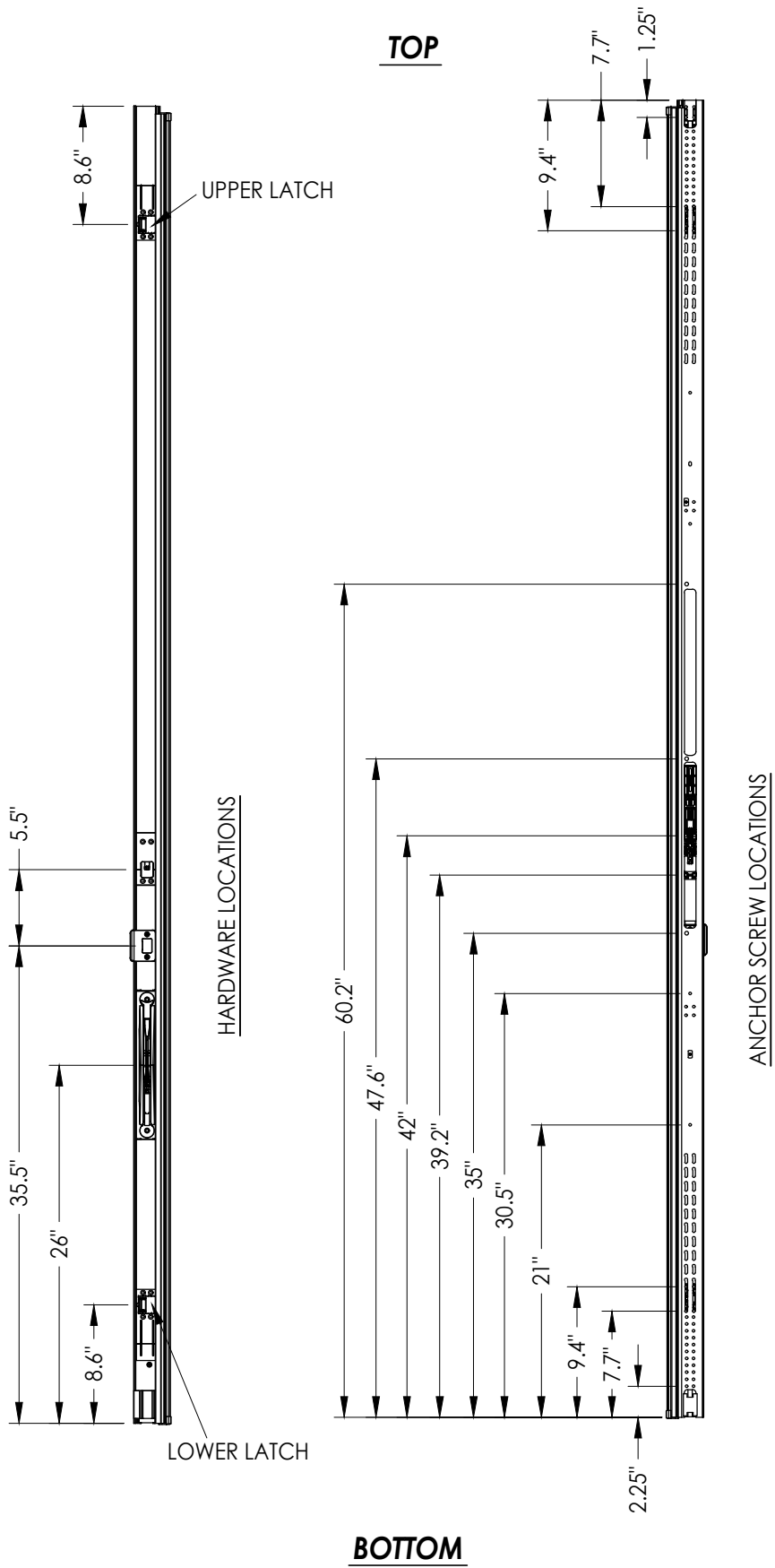
SHEET 1 OF 6

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

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ULTIMATE MULTIPOINT ASTRAGAL



ASTRAGAL SECTION

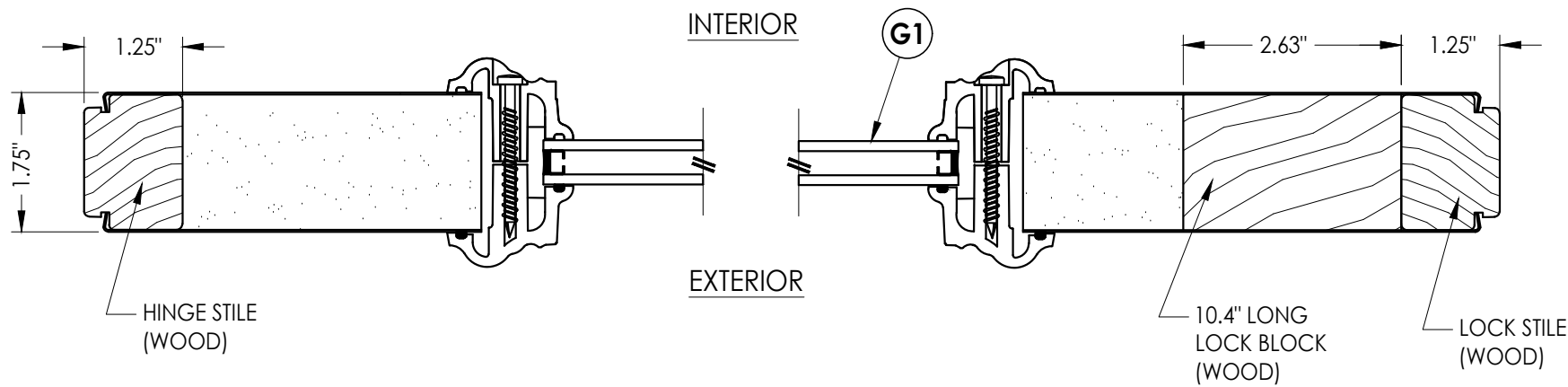
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6	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
5	9/05/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
4	6/13/16	ADD THRESHOLD DETAILS		LFS			
3	4/19/16	ADD ALUMINUM ARTICULATING SILL		LFS			
NO.	DATE						

DATE: 8/30/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14818.13
SHEET 2 OF 6

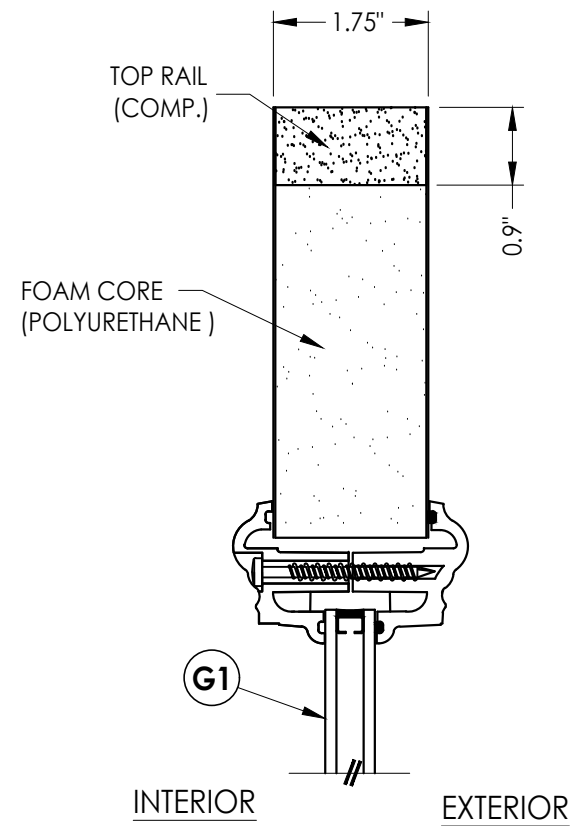
PRODUCT: ENDURA
PART OR ASSEMBLY: ASTRAGAL DETAILS

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

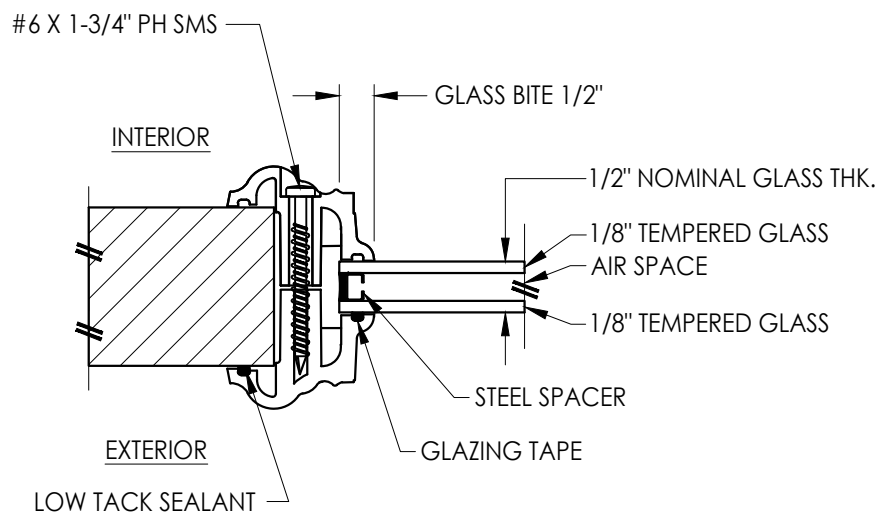
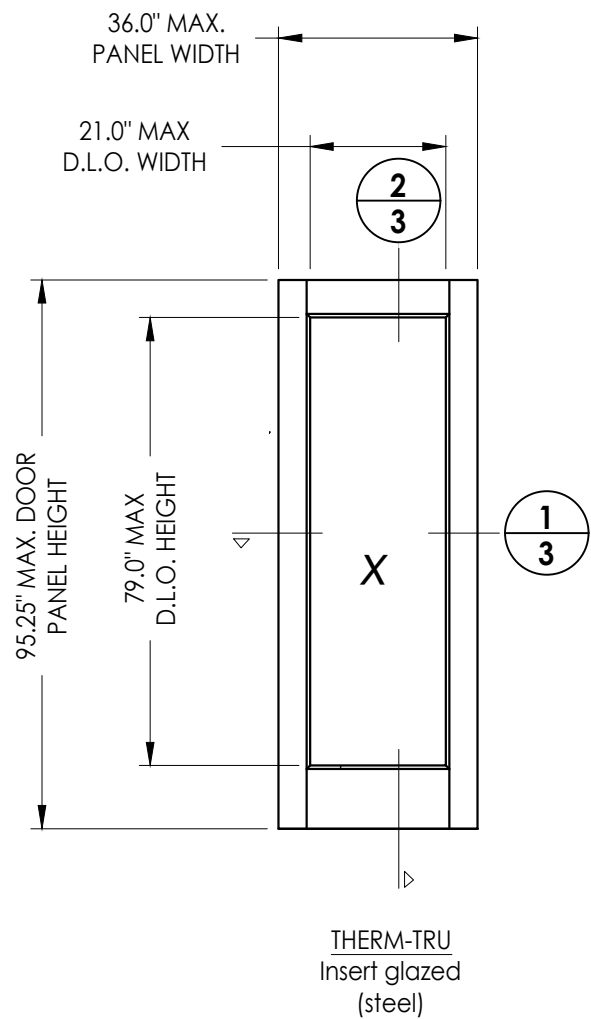
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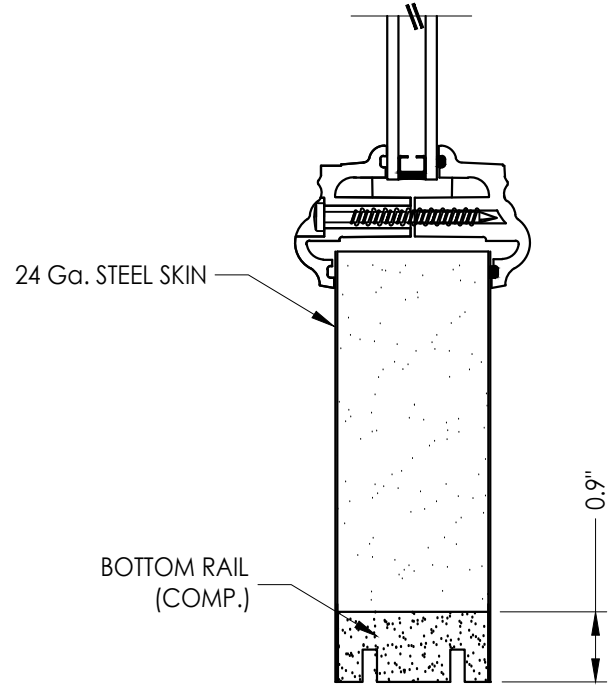
1
3 HORIZONTAL CROSS SECTION



2
3 VERTICAL CROSS SECTION

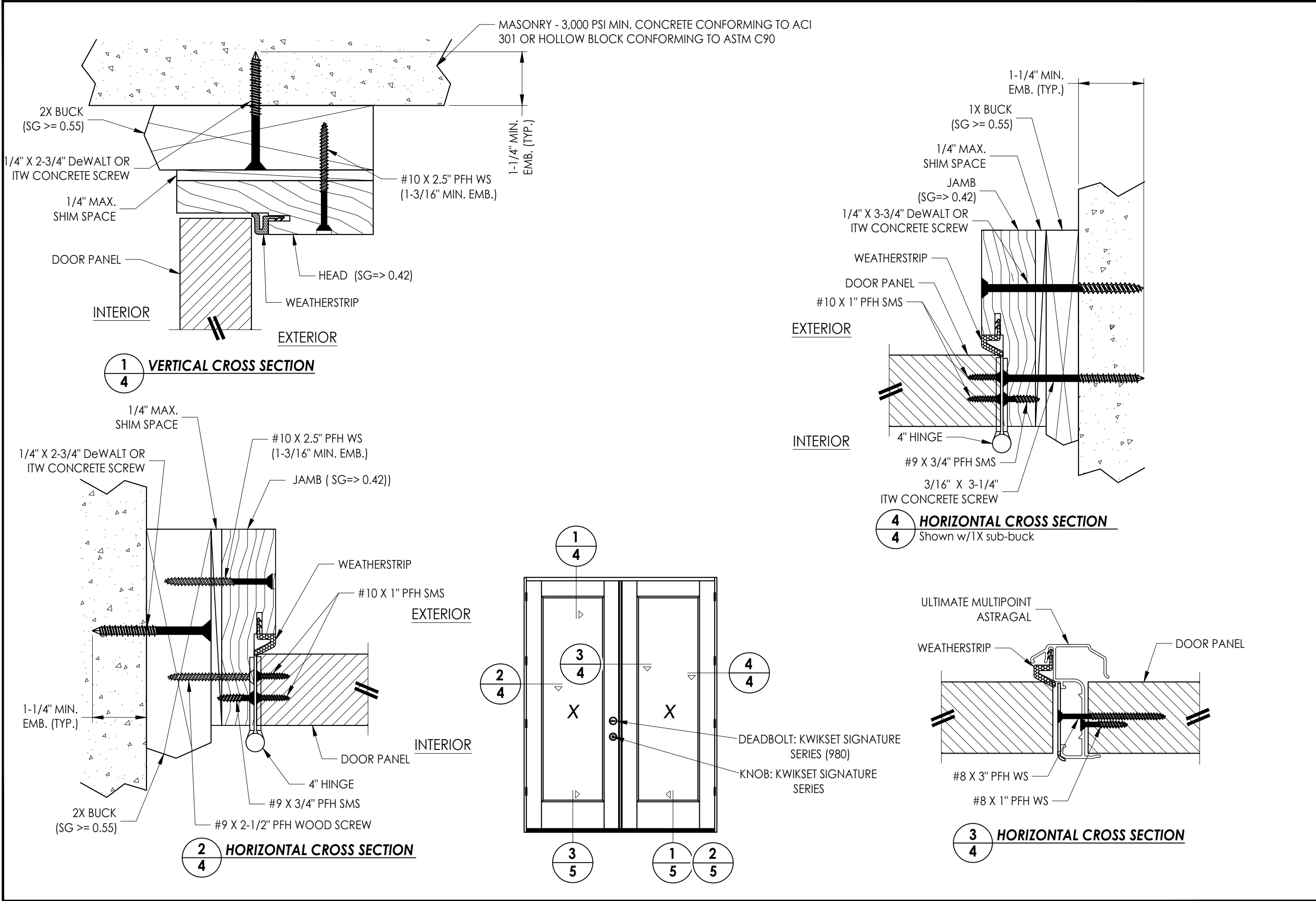


G1 GLAZING DETAIL
Lip Life Insert Glazing



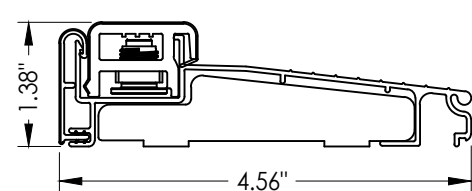
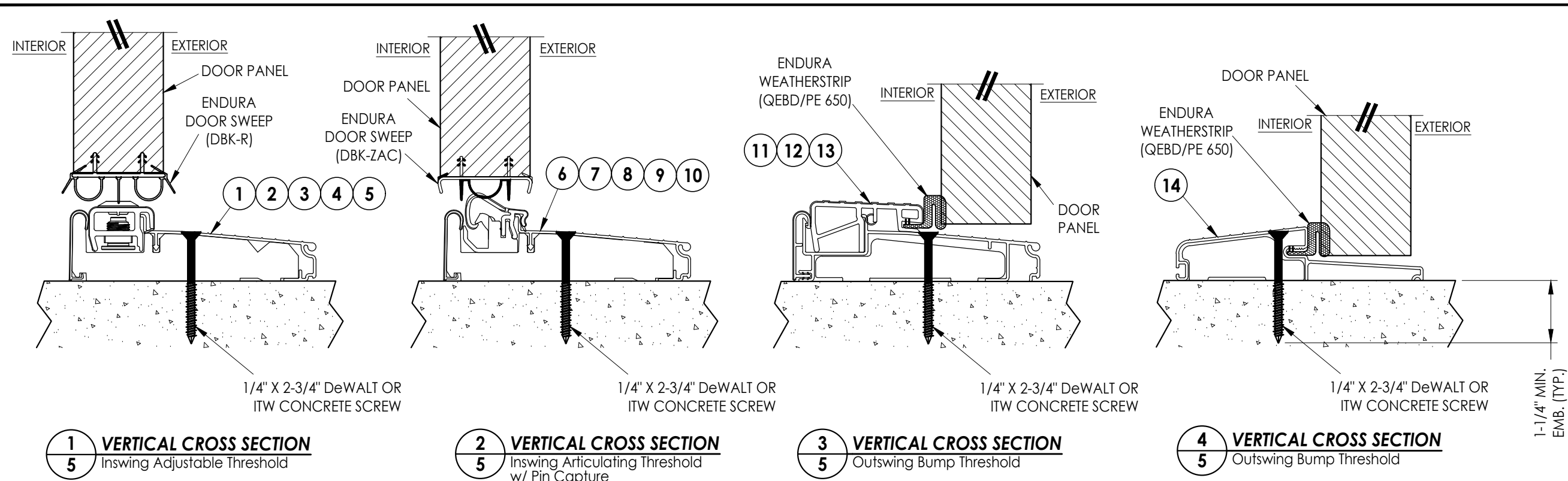
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: ENDURA				PART OR ASSEMBLY: DOOR PANEL DETAILS & GLAZING DETAIL			
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6	8/03/20	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-14818.13							
SHEET 3 OF 6							

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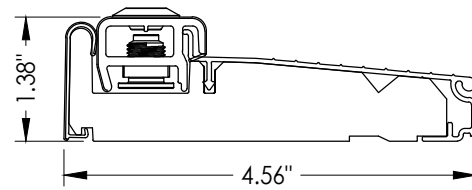


Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409		BUILDING CONSULTANTS, INC.		P.O. Box 230, Valrico, FL 33595		Phone No.: 813.659.9197		FBPE Registry No. 9813	
PRODUCT:		ENDURA		PART OR ASSEMBLY:		HORIZONTAL AND VERTICAL		CROSS SECTIONS					
		LFS	FBC	LFS	FBC	LFS	FBC	LFS	FBC	LFS	FBC	LFS	FBC
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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				LFS			
3	4/19/16	ADD ALUMINUM ARTICULATING SILL				LFS				LFS			
NO.		DATE		BY		REVISIONS							
DATE:		8/30/11											
SCALE:		N.T.S.											
DWG. BY:		JK											
CHK. BY:		LFS											
DRAWING NO.:		FL-14818.13											
SHEET		4		OF		6							

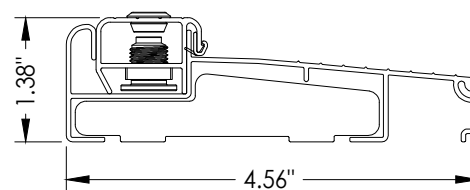
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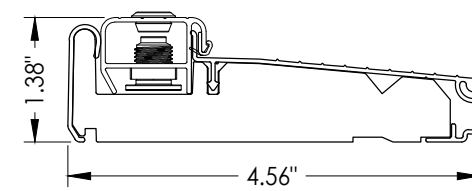
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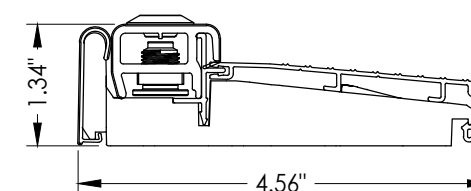
2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565

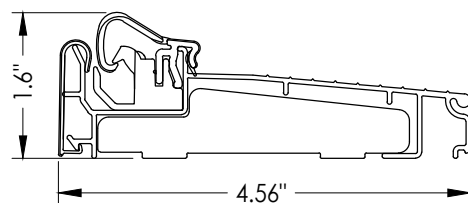


4 INSWING ADJUSTABLE THRESHOLD
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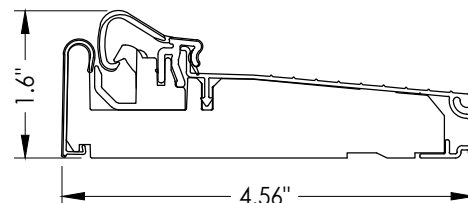


5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS

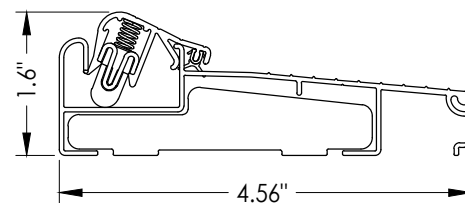
MAX. DESIGN PRESSURE = ± 40 PSF



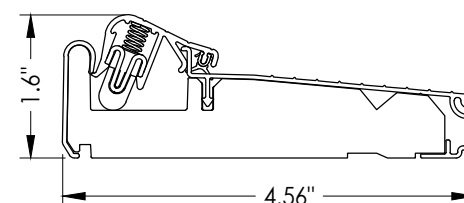
6 INSWING ARTICULATING THRESHOLD
ZACL4565



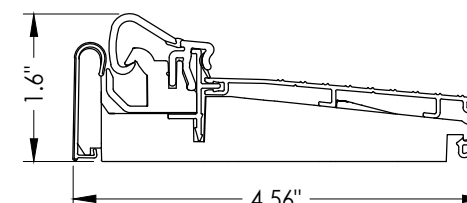
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ZAC4565FN



8 INSWING ARTICULATING THRESHOLD
ZACLA4565

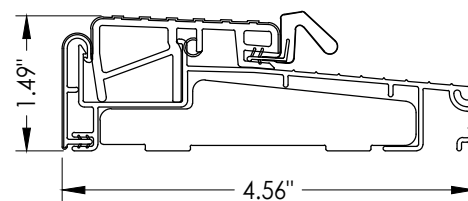


9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN

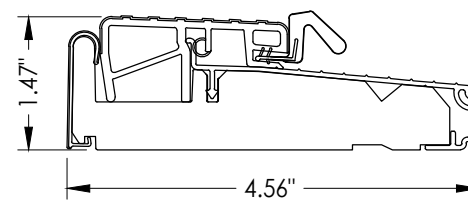


10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

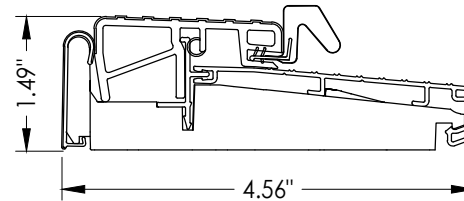
MAX. DESIGN PRESSURE = ± 35 PSF



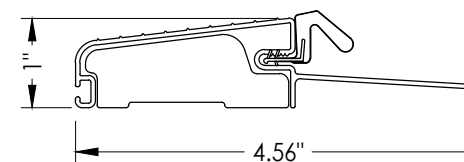
11 OUTSWING THRESHOLD
ZOBL4565



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, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
THRESHOLD
DETAILS

		LFS	FBC	FBC	FBC	LFS	LFS	BY
7	7/06/23	UPDATE TO 8TH ED. (2023)	7/06/23	7/06/23	7/06/23	7/06/23	7/06/23	
6	8/03/20	UPDATE TO 7TH ED. (2020)	8/03/20	8/03/20	8/03/20	8/03/20	8/03/20	
5	9/05/17	UPDATE TO 6TH ED. (2017)	9/05/17	9/05/17	9/05/17	9/05/17	9/05/17	
4	6/13/16	ADD THRESHOLD DETAILS	6/13/16	6/13/16	6/13/16	6/13/16	6/13/16	
3	4/19/16	ADD ALUMINUM ARTICULATING SILL	4/19/16	4/19/16	4/19/16	4/19/16	4/19/16	
NO.	DATE	REVISIONS						

DATE: 8/30/11

SCALE: N.T.S.

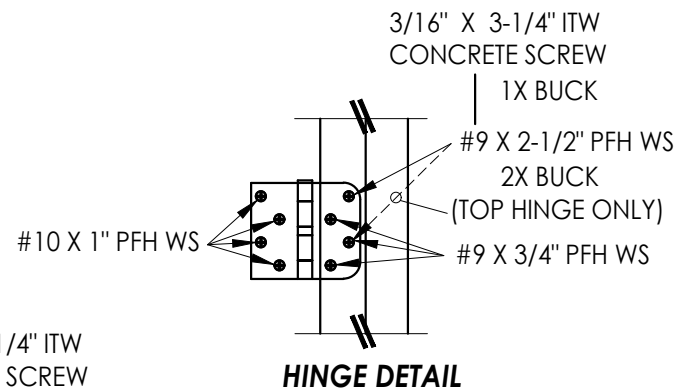
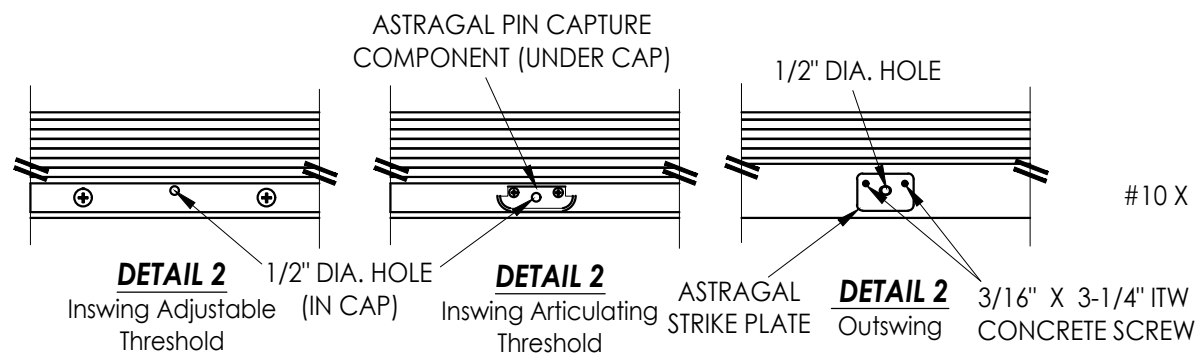
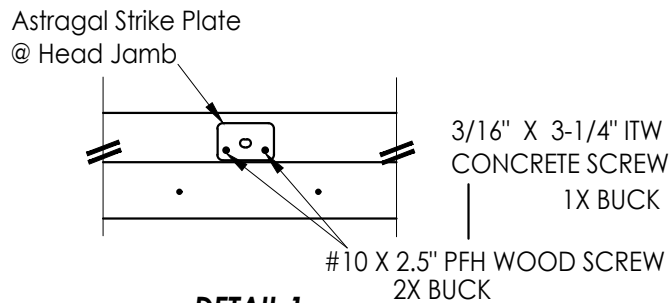
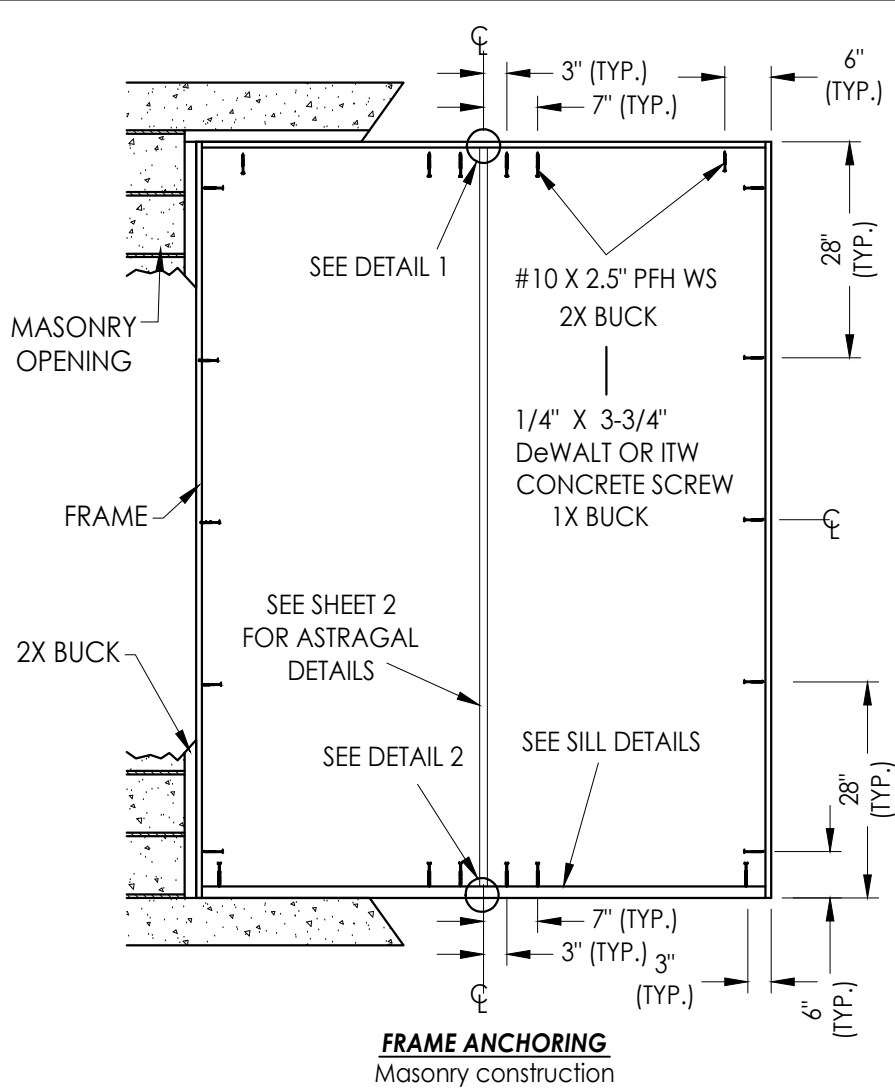
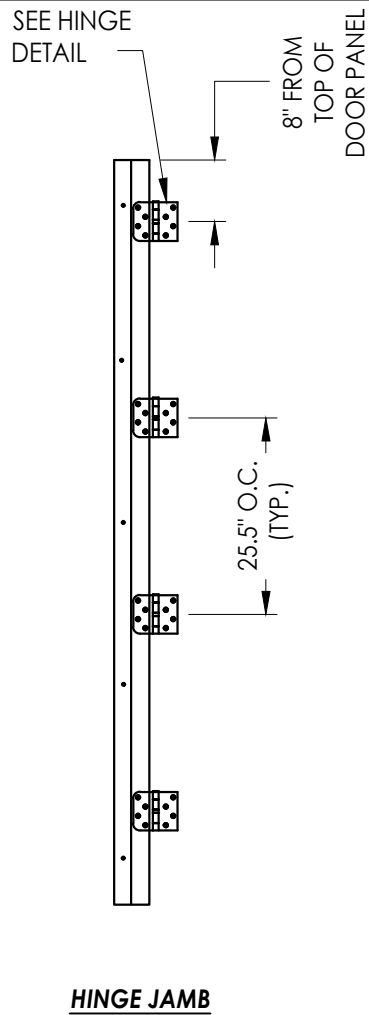
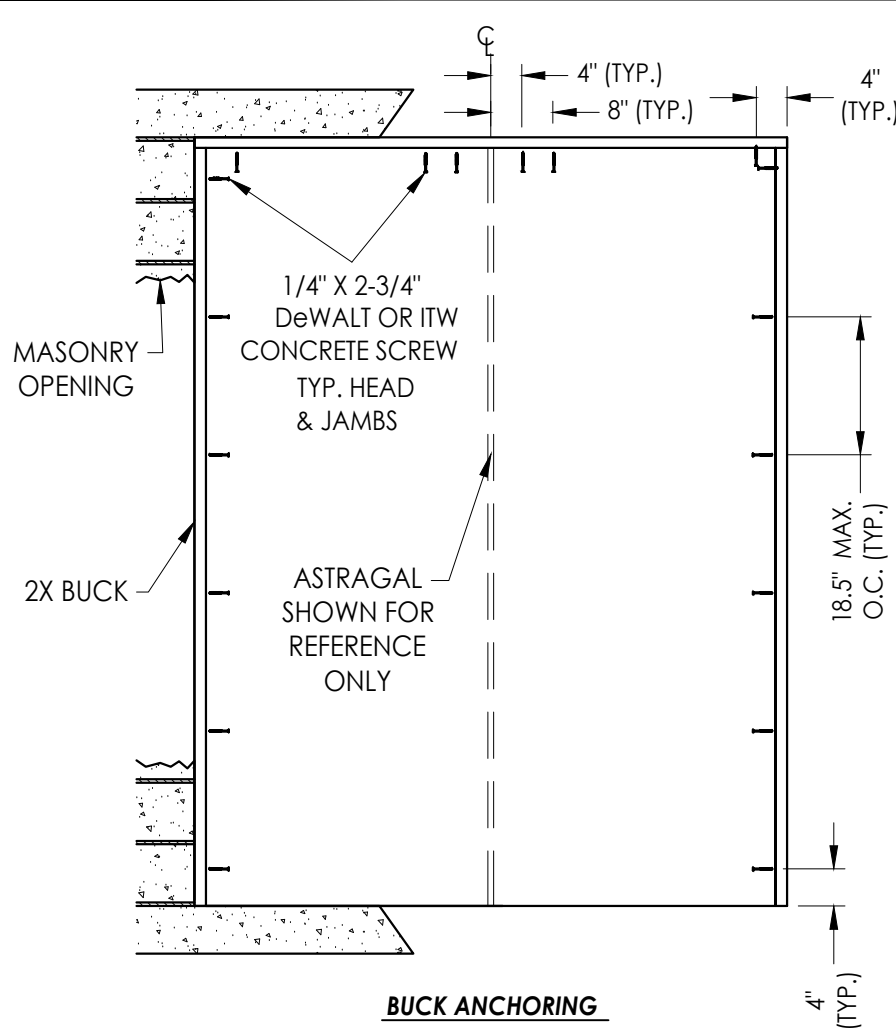
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14818.13

SHEET 5 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 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, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

NO.	DATE	REVISIONS			
		BY	LFS	SILL	DETAILS
7	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
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4	6/13/16	ADD THRESHOLD DETAILS	LFS		
3	4/19/16	ADD ALUMINUM ARTICULATING SILL	LFS		
NO.	DATE	BY	LFS		

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14818.13

SHEET 6 OF 6