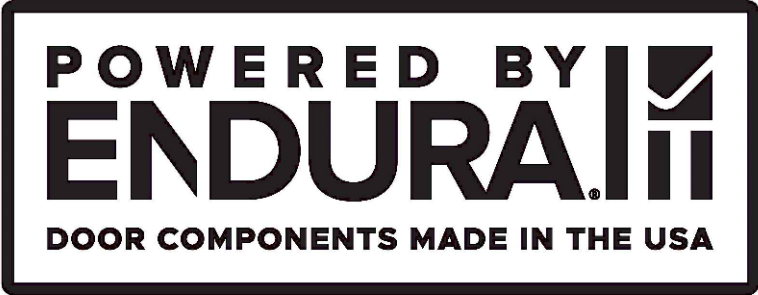


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Ultimate Hurricane Astragal

INSWING / OUTSWING

"NON-IMPACT"

GENERAL NOTES

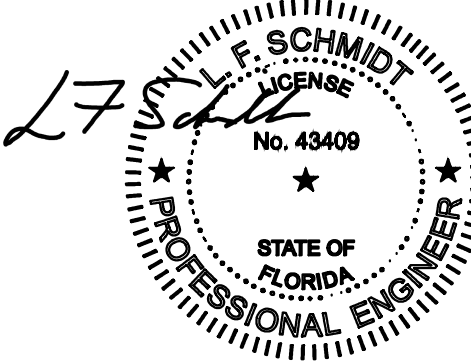
- 1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- 2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall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

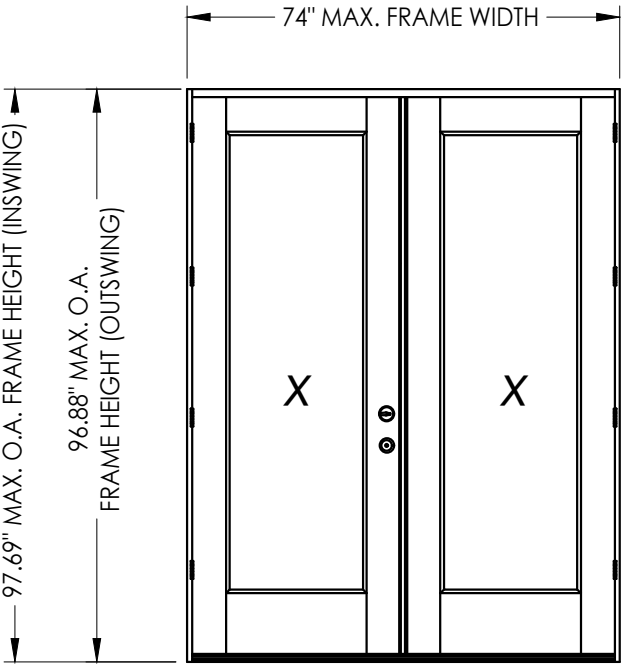
ULTIMATE HURRICANE ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE Flush Glazed (FIBERGLASS)	INSWING	74" X 97.69"	+35.0	-35.0
	OUTSWING	74" X 96.88"	+35.0	-35.0



Digitally signed by
Lyndon F Schmidt
Date: 2023.07.20
09:14:55 -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	
LFS	7/07/23	UPDATE TO 8TH ED. (2023)	FBC
LFS	8/12/20	UPDATE TO 7TH ED. (2020)	FBC
LFS	9/18/17	UPDATE TO 6TH ED. (2017)	FBC
LFS	6/9/16	ADD THRESHOLD DETAILS	
LFS	4/19/16	ADD ALUMINUM ARTICULATING SILL	
JK	3/28/15	UPDATE TO 5TH ED. (2014)	FBC
BY	DATE	REVISIONS	

DATE: 10/24/13

SCALE: N.T.S.

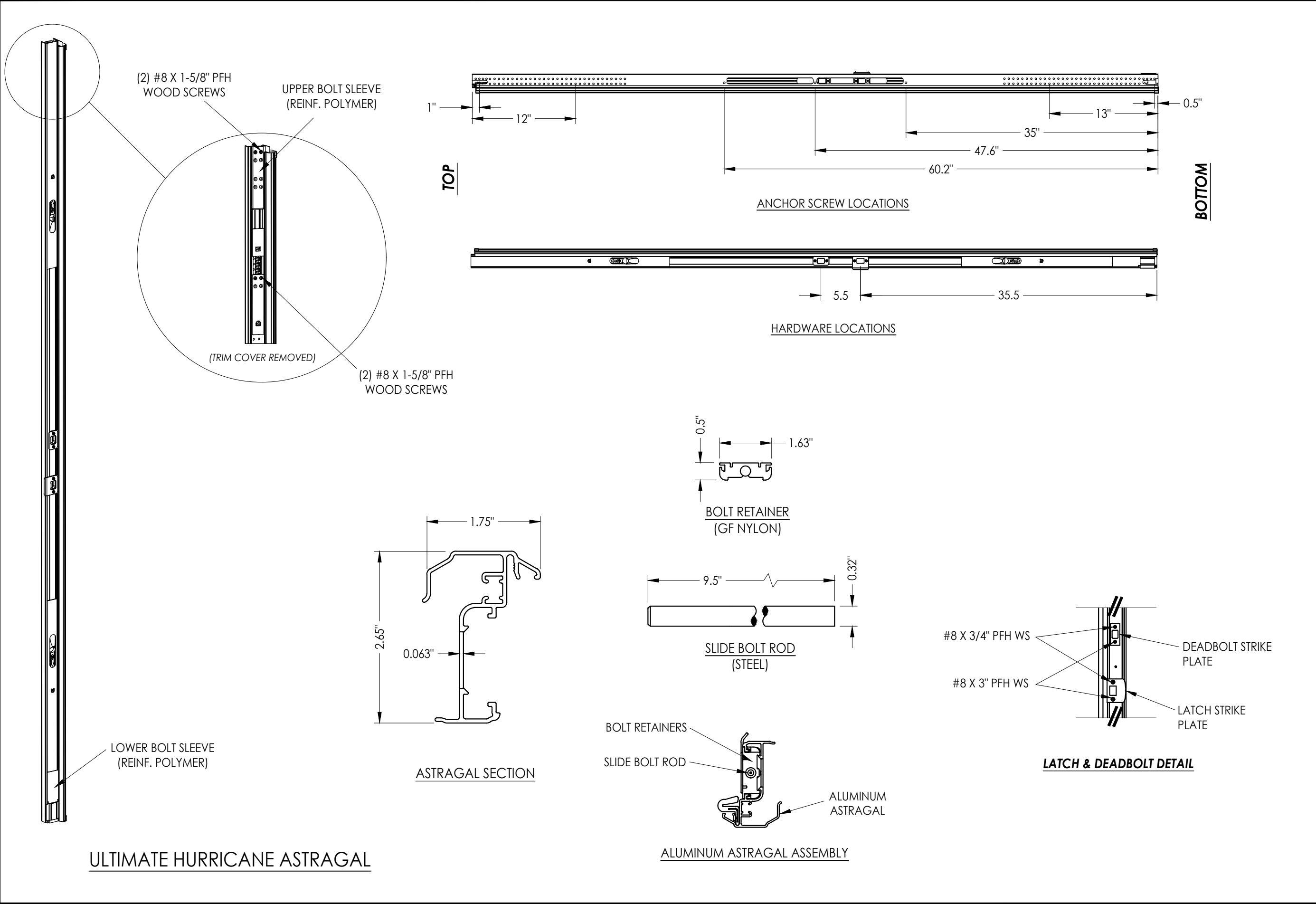
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CHK. BY: LFS

DRAWING NO.: FL-16634.12

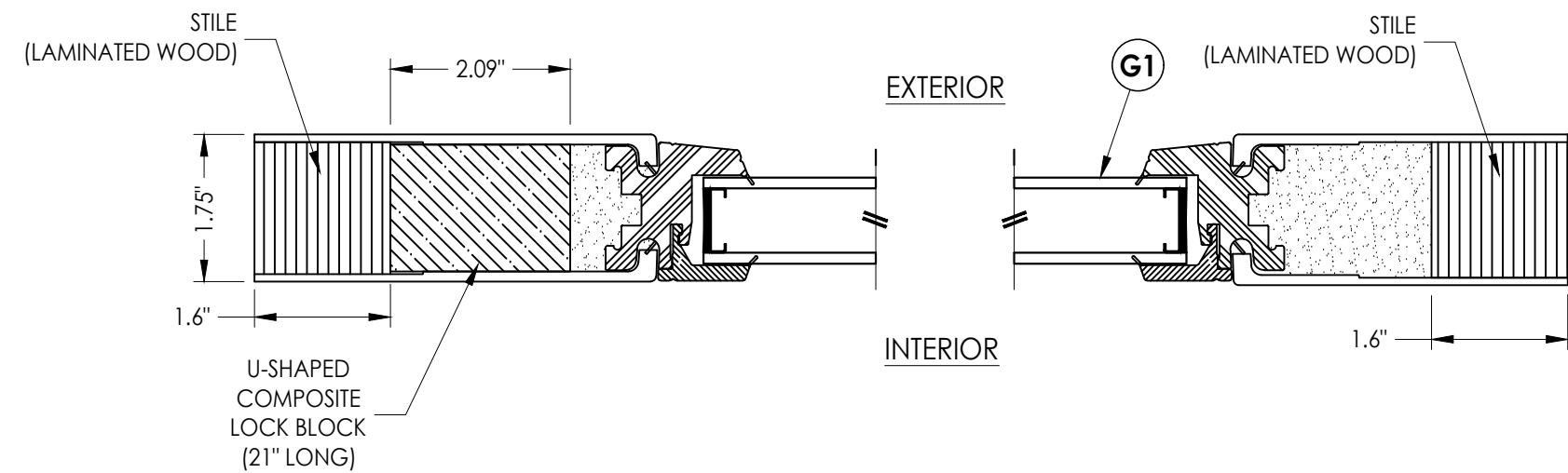
SHEET 1 OF 6

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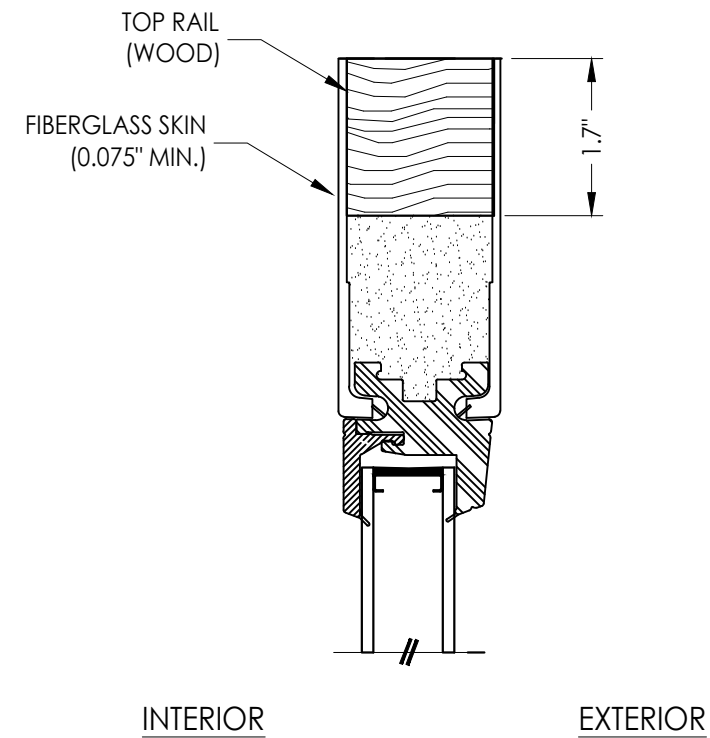


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: ENDURA				PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE HURRICANE)			
6	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
5	8/12/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
4	9/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
3	6/9/16	ADD THRESHOLD DETAILS		LFS			
2	4/19/16	ADD ALUMINUM ARTICULATING SILL		LFS			
1	3/28/15	UPDATE TO 5TH ED. (2014)	FBC	JK			
NO.	DATE			BY			
				REVISIONS			
DATE: 10/24/13							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-16634.12							
SHEET 2 OF 6							

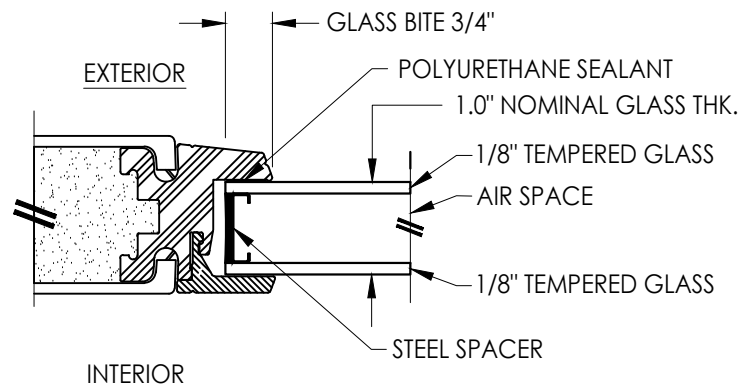
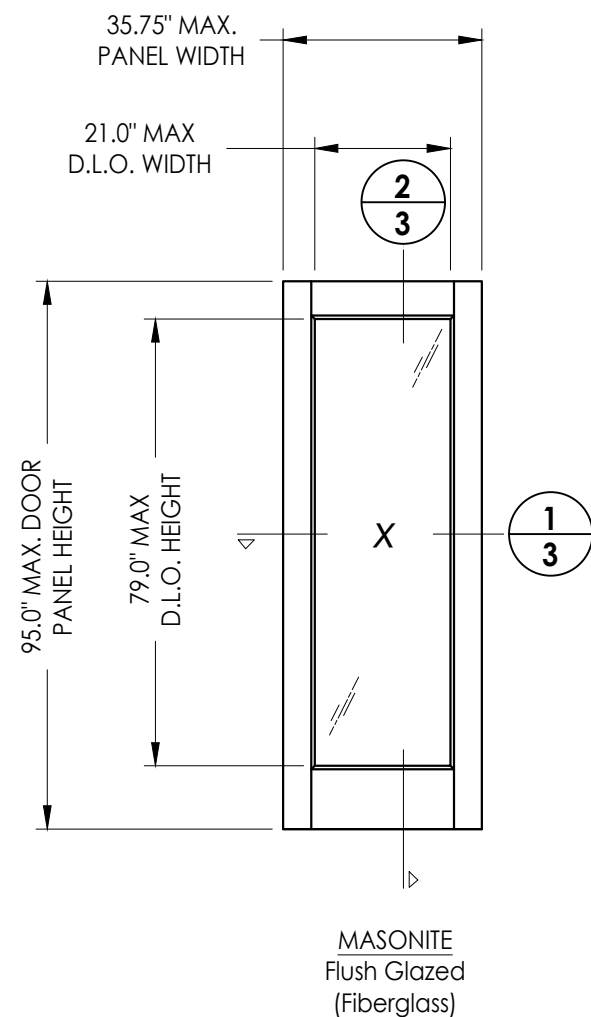
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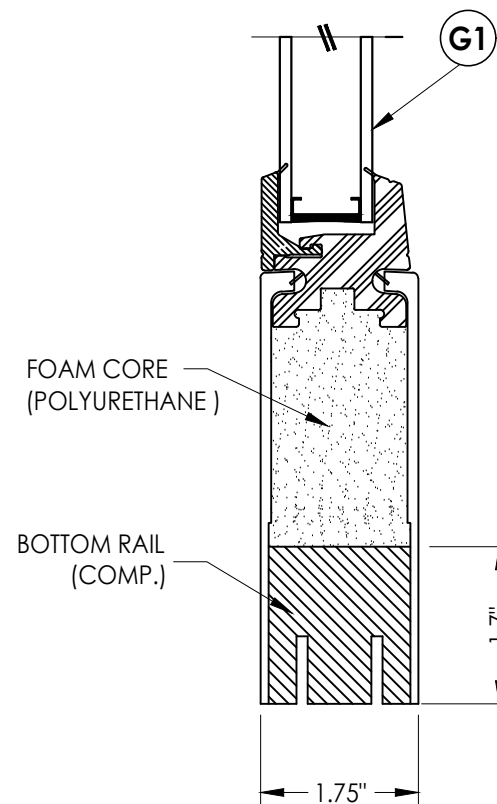
1
3 HORIZONTAL CROSS SECTION



2
3 VERTICAL CROSS SECTION



G1 GLAZING DETAIL
Flush Glazing



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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT: ENDURA
PART OR ASSEMBLY: DOOR PANEL DETAILS & GLAZING DETAIL

NO.	DATE	REVISIONS
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC
5	8/12/20	UPDATE TO 7TH ED. (2020) FBC
4	9/18/17	UPDATE TO 6TH ED. (2017) FBC
3	6/9/16	ADD THRESHOLD DETAILS
2	4/19/16	ADD ALUMINUM ARTICULATING SILL
1	3/28/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 10/24/13

SCALE: N.T.S.

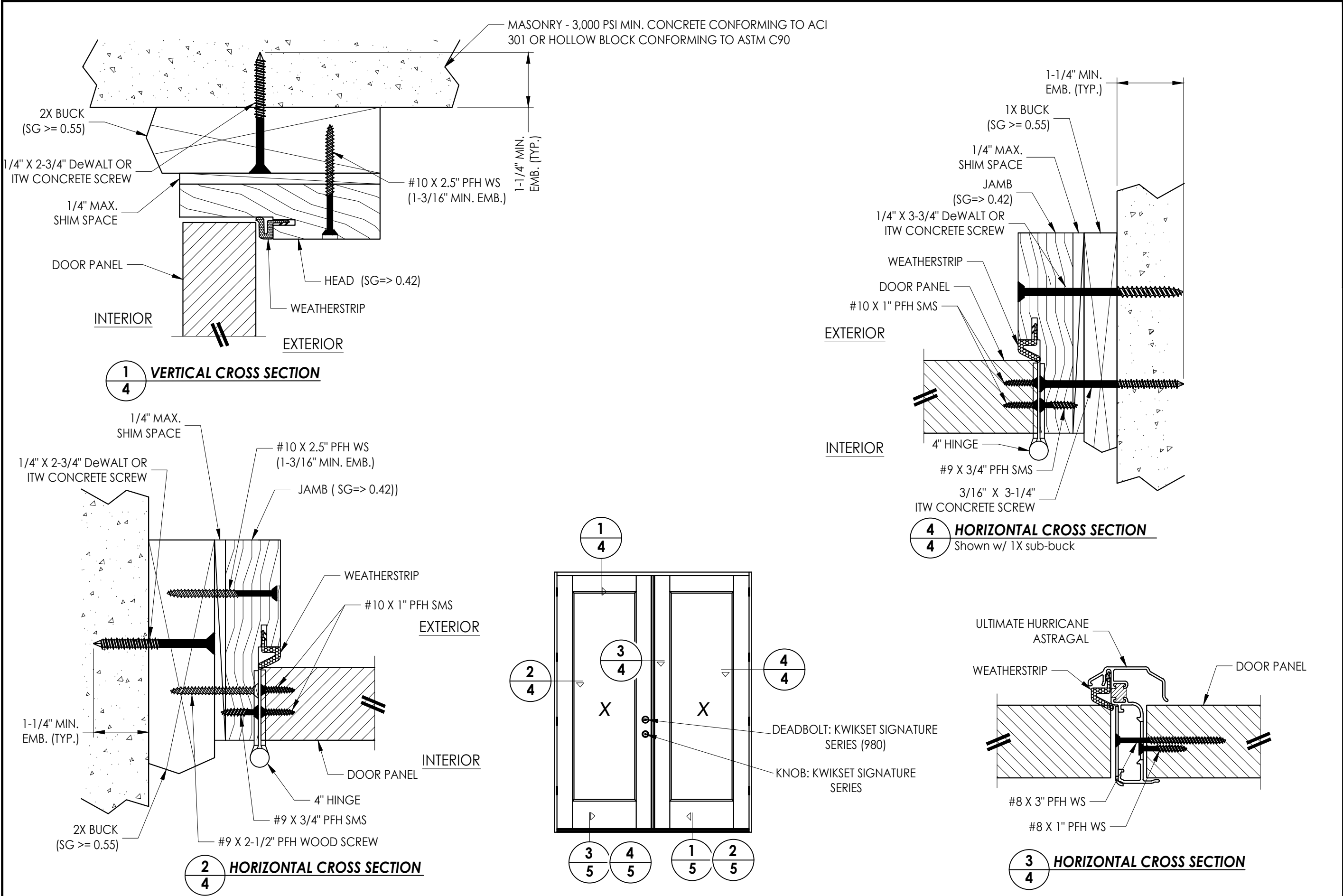
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CHK. BY: LFS

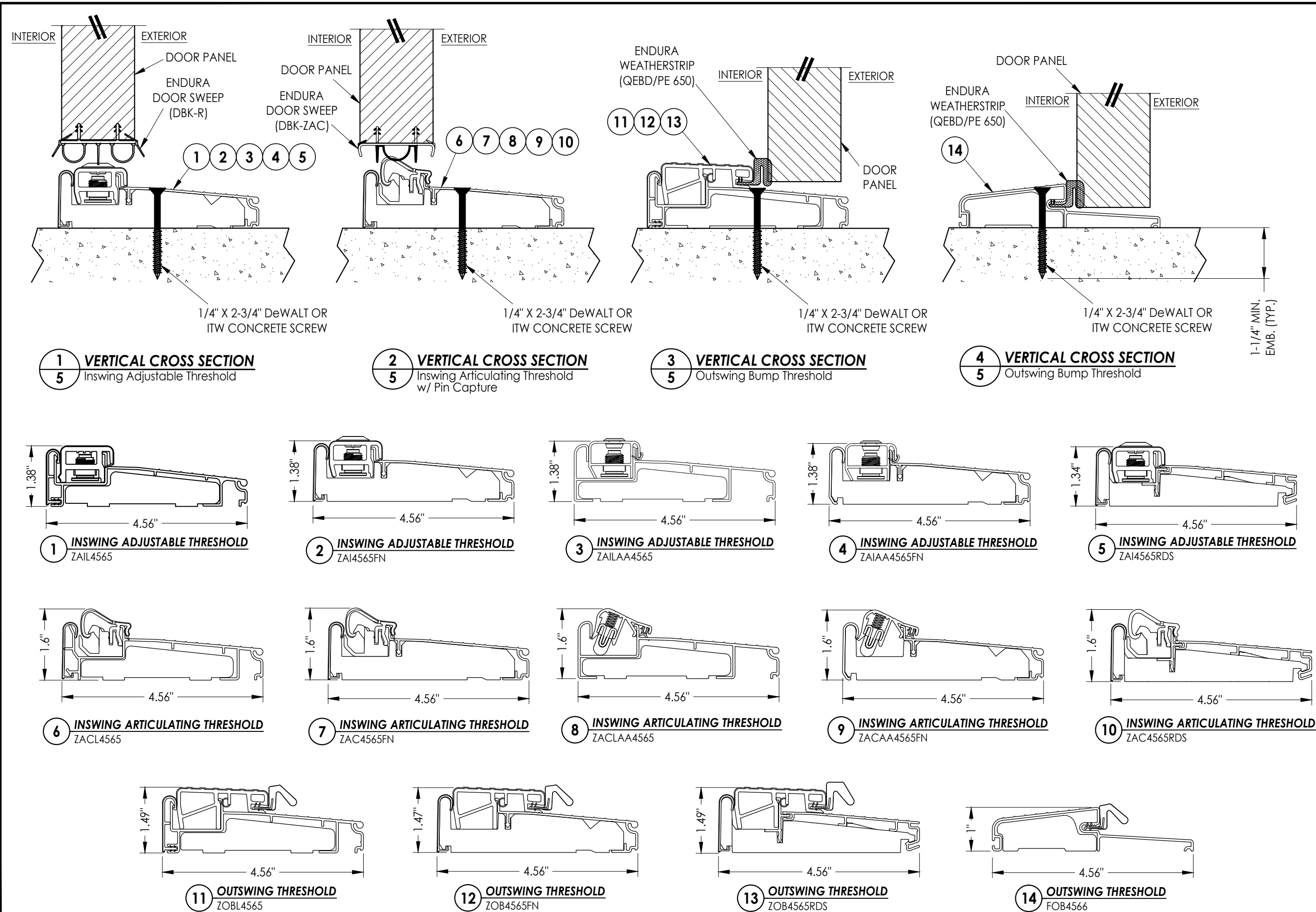
DRAWING NO.: FL-16634.12

SHEET 3 OF 6

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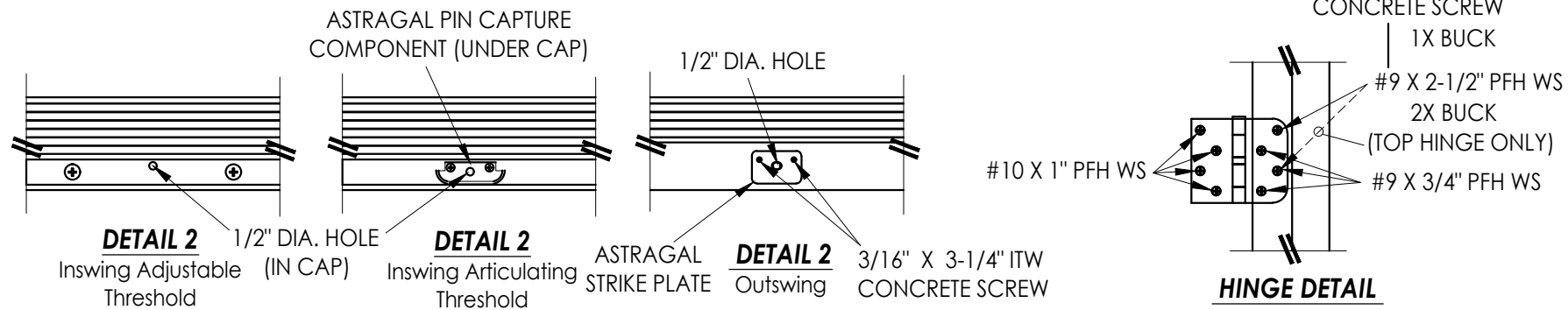
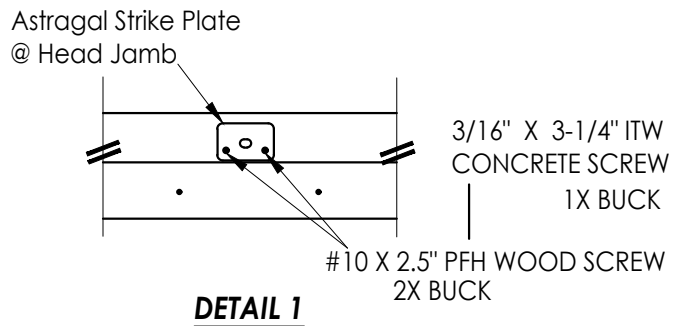
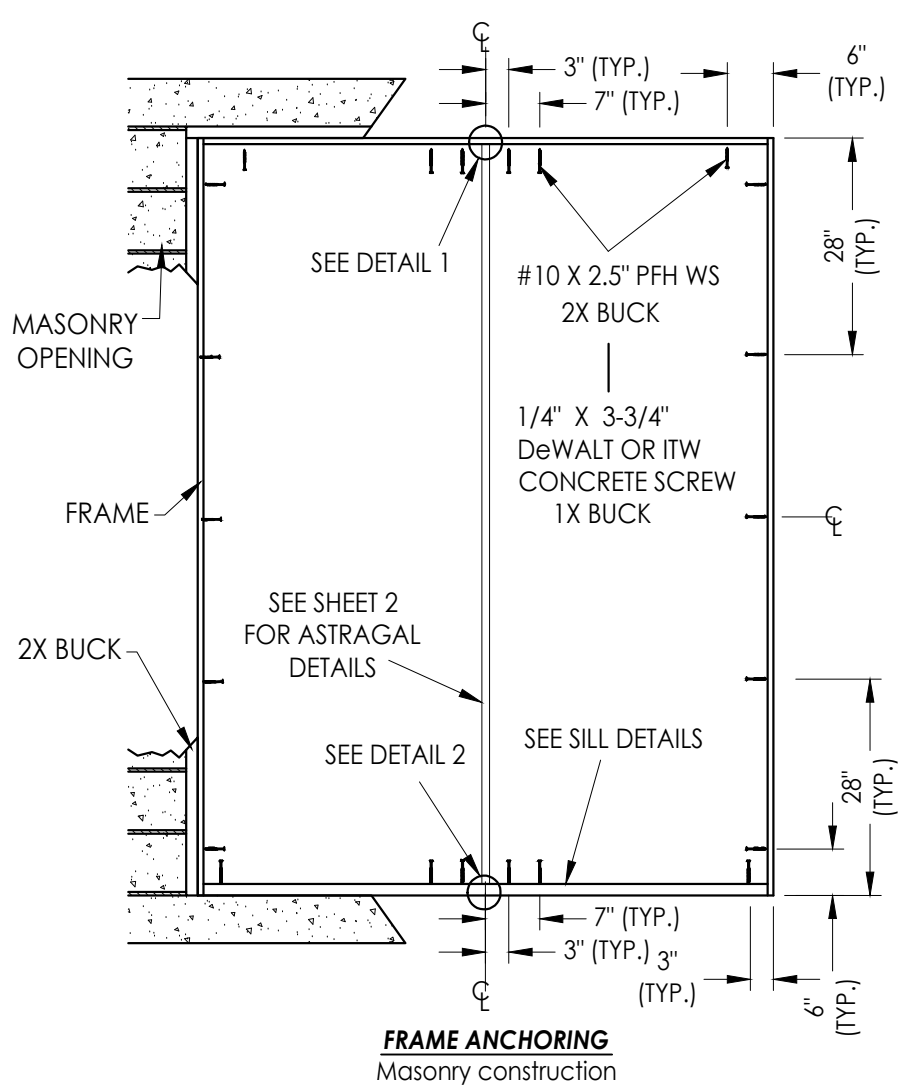
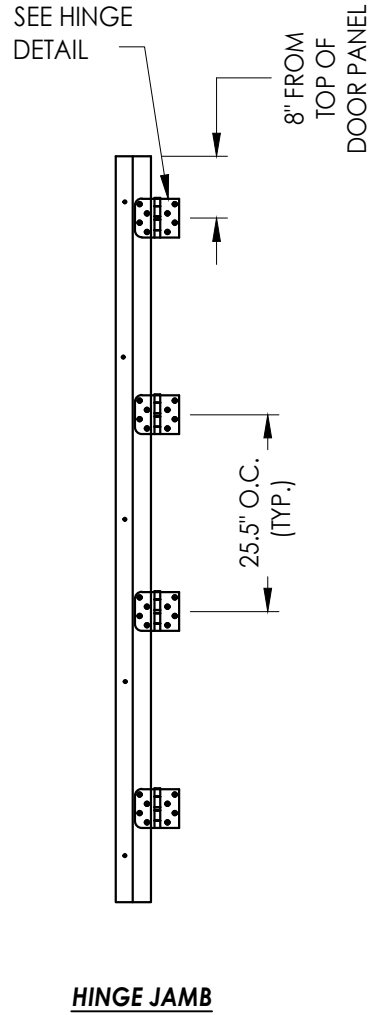
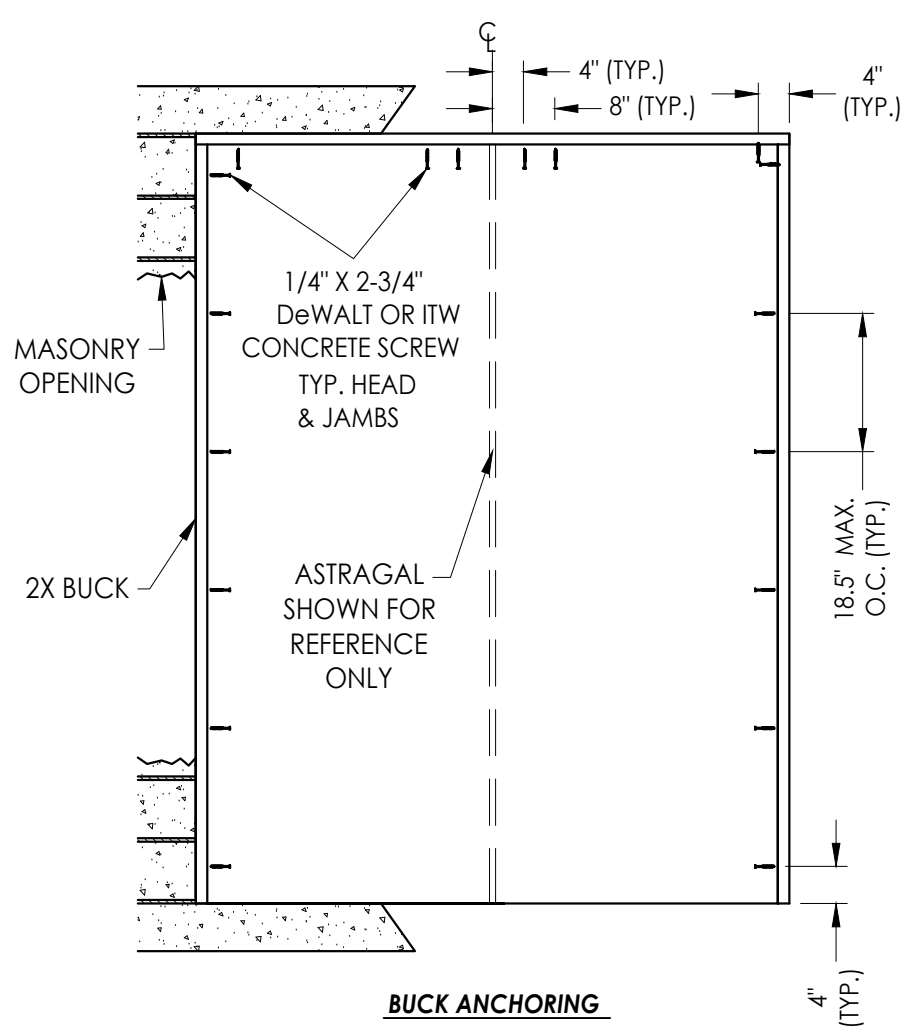


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		
PRODUCT: ENDURA		PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS		
LFS	6	7/07/23	UPDATE TO 8TH ED. (2023)	FBC
LFS	5	8/12/20	UPDATE TO 7TH ED. (2020)	FBC
LFS	4	9/18/17	UPDATE TO 6TH ED. (2017)	FBC
LFS	3	6/9/16	ADD THRESHOLD DETAILS	
LFS	2	4/19/16	ADD ALUMINUM ARTICULATING SILL	
JK	1	3/28/15	UPDATE TO 5TH ED. (2014)	FBC
BY	NO. DATE		REVISIONS	
DATE: 10/24/13				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-16634.12				
SHEET 4 OF 6				



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PRODUCT: ENDURA		PART OR ASSEMBLY: THRESHOLD DETAILS					
6	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	REVISIONS	NO.	DATE
5	8/12/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
4	9/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
3	6/9/16	ADD THRESHOLD DETAILS		LFS			
2	4/19/16	ADD ALUMINUM ARTICULATING SILL		LFS			
1	3/28/15	UPDATE TO 5TH ED. (2014)	FBC	JK			
DATE: 5/24/16							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-16634.12							
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 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.

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ENDURA

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

LFS	FBC	(2023)	UPDATE TO 8TH ED.	NO.	DATE	BY
LFS	FBC	(2020)	UPDATE TO 7TH ED.	5	8/12/20	
LFS	FBC	(2017)	UPDATE TO 6TH ED.	4	9/18/17	
LFS	FBC		ADD THRESHOLD DETAILS	3	6/9/16	
LFS	SILL		ADD ALUMINUM ARTICULATING SILL	2	4/19/16	
JK	FBC	(2014)	UPDATE TO 5TH ED.	1	3/28/15	
REVISIONS						
DATE: 10/24/13						
SCALE: N.T.S.						
DWG. BY: JK						
CHK. BY: LFS						
DRAWING NO.: FL-16634.12						
SHEET 6 OF 6						