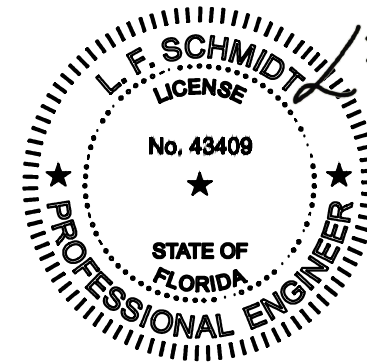




1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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



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.

Ultimate Hurricane Astragal

ULTIMATE HURRICANE ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO Insert Glazed (FIBERGLASS)	INSWING	74" X 82"	+50.0	-55.0
	OUTSWING	74" X 81.12"	+45.0	-45.0

[illegible]

[illegible]

The technical drawings illustrate the components of the Aluminum Astragal Assembly:

- BOLT RETAINER (GF NYLON):** A cross-sectional view showing a U-shaped component with a central circular hole. The height is dimensioned as 0.5" and the width of the top flange is 1.63".
- SLIDE BOLT ROD (STEEL):** A side view of a long, thin rod with a central break. The total length is 9.5", and the thickness is 0.32".
- ALUMINUM ASTRAGAL ASSEMBLY:** A perspective view showing the assembly of the Bolt Retainers, Slide Bolt Rod, and Aluminum Astragal. Labels with leader lines identify each part.

#8 X 3/4" PFH WS

#8 X 3" PFH WS

DEADBOLT STRIKE PLATE

LATCH STRIKE PLATE

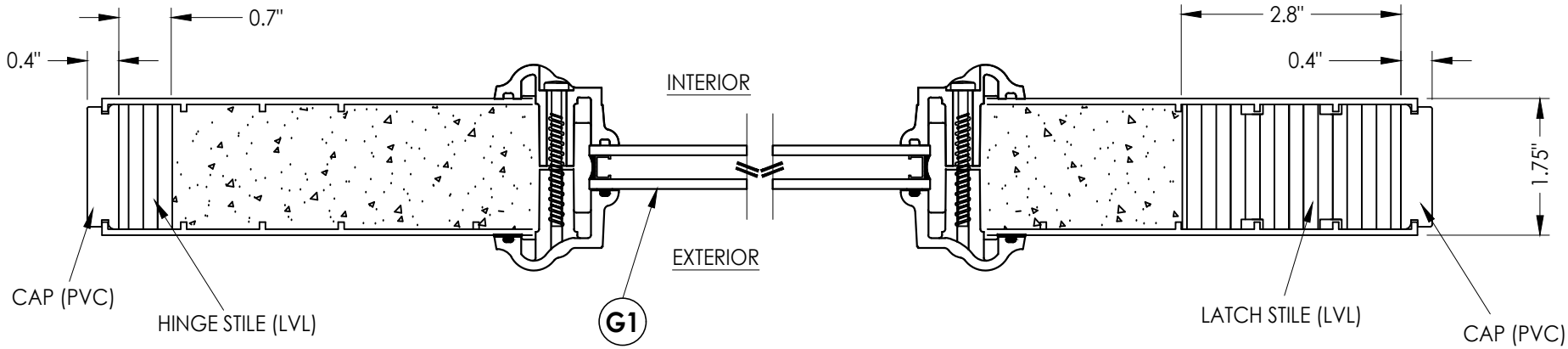
LATCH & DEADBOLT DETAIL

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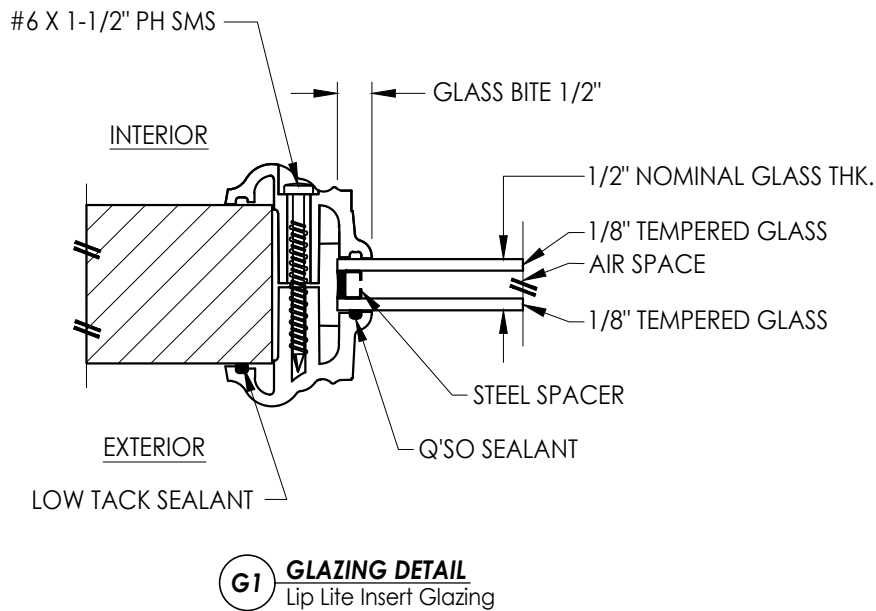
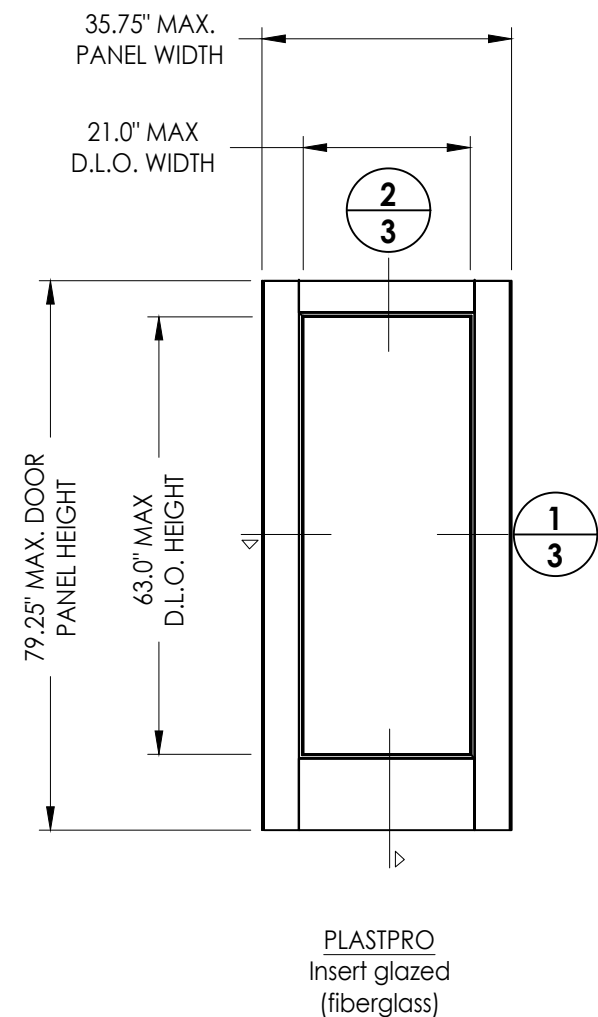
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P.E. No. 43409

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

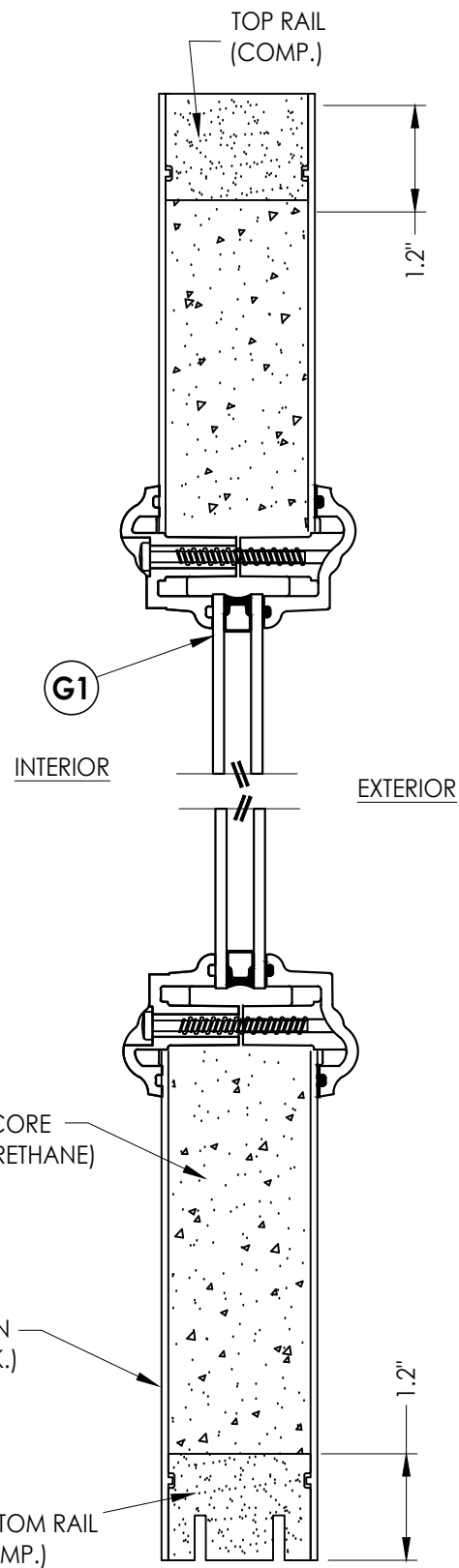
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1
3 HORIZONTAL CROSS SECTION



G1 GLAZING DETAIL
Lip Lite Insert Glazing



2
3 VERTICAL CROSS SECTION

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FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
DOOR PANEL DETAILS
& GLAZING DETAIL

NO.	DATE	REVISIONS
8	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	7/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	8/12/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

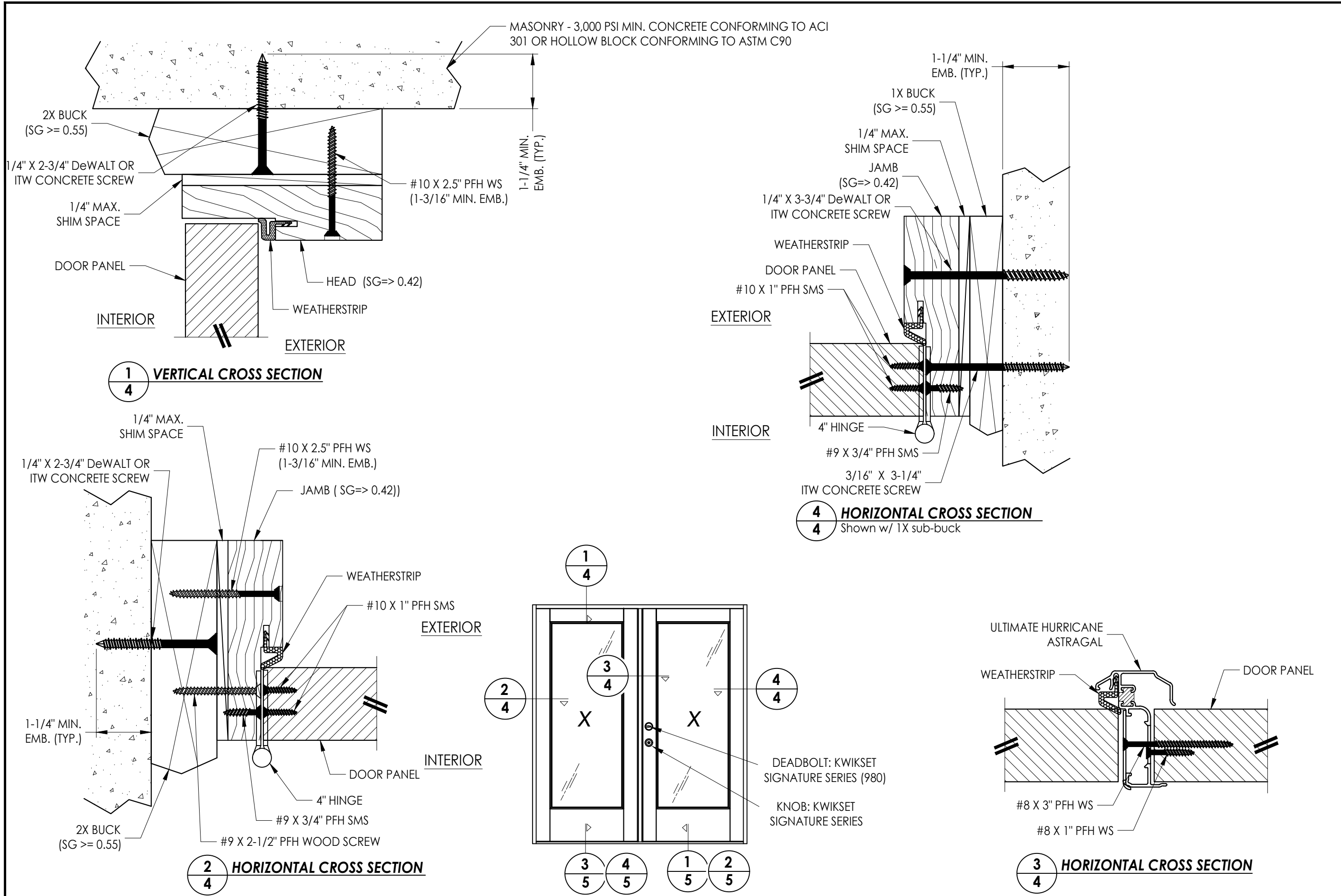
CHK. BY: LFS

DRAWING NO.:

FL-16634.2

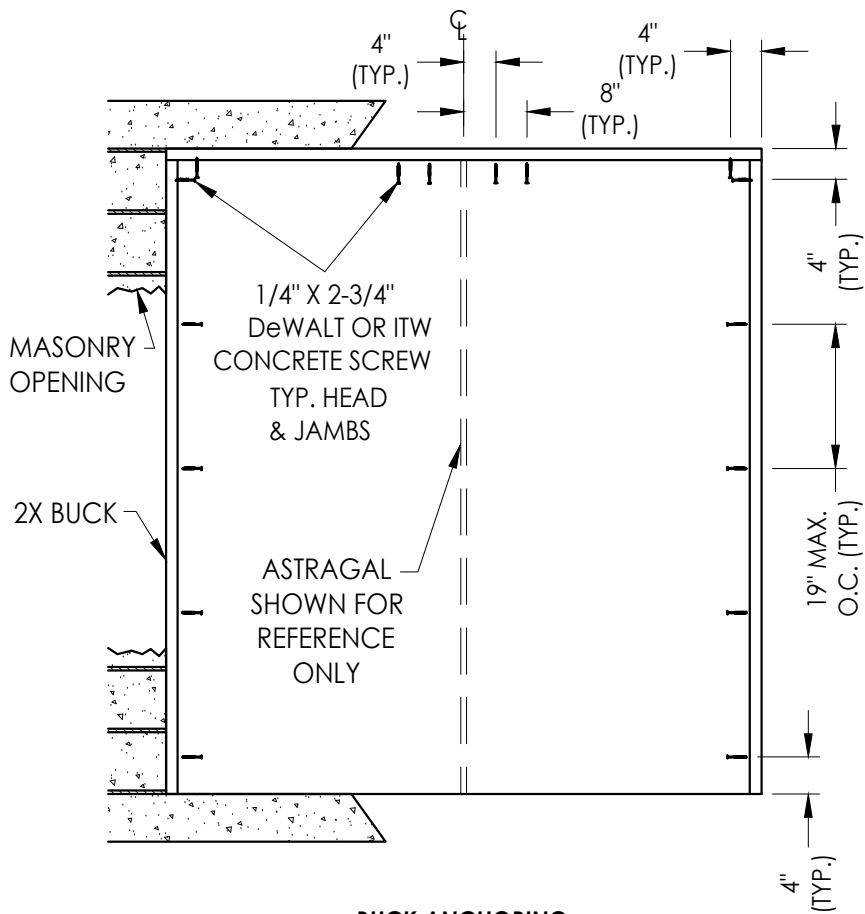
SHEET 3 OF 6

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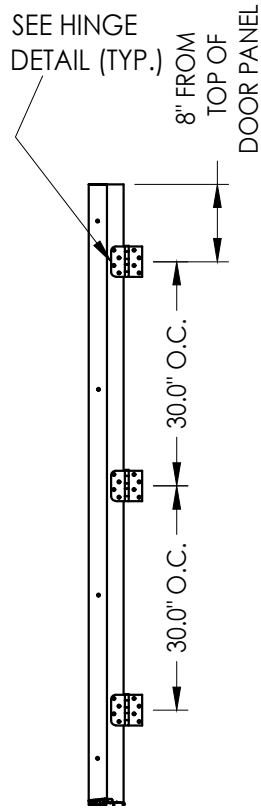


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT:	ENDURA	PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS	
		REVISIONS	
		8	7/03/26 UPDATE TO 9TH ED. (2026) FBC LFS
		7	7/07/23 UPDATE TO 8TH ED. (2023) FBC LFS
		6	8/12/20 UPDATE TO 7TH ED. (2020) FBC LFS
		NO.	DATE
DATE: 10/24/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16634.2			
SHEET 4 OF 6			

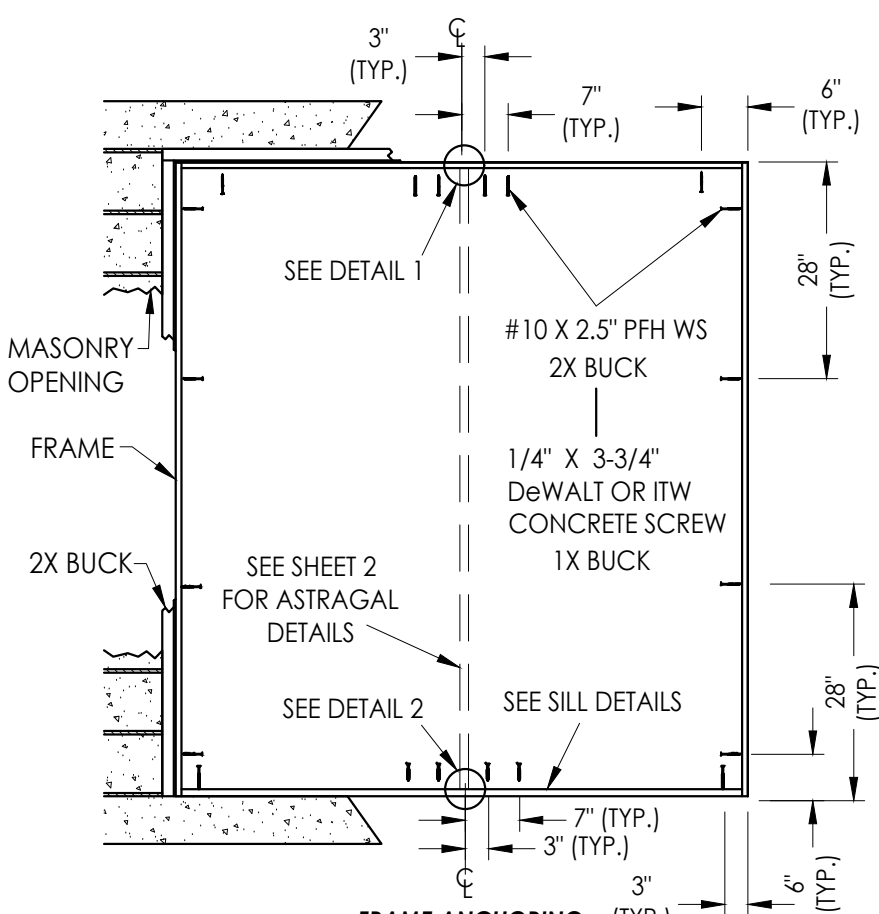
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BUCK ANCHORING
XX



HINGE JAMB



FRAME ANCHORING
XX

CORROSION RESISTANCE - SALTWATER ENVIRONMENT

Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

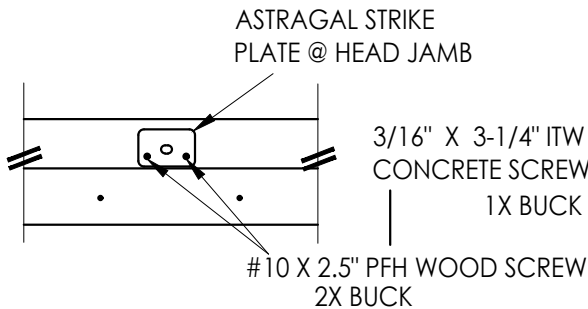
CONCRETE ANCHOR NOTES:

- 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:

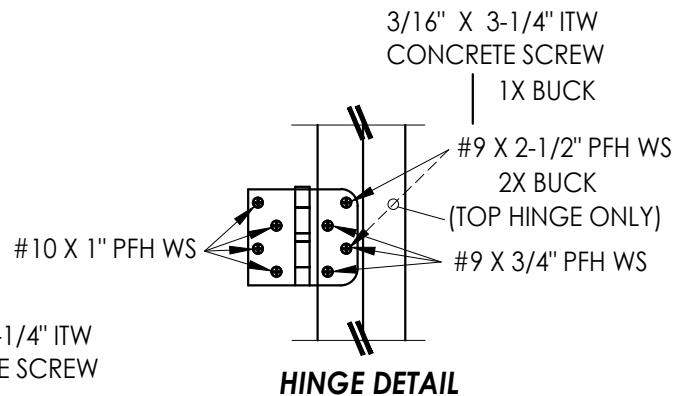
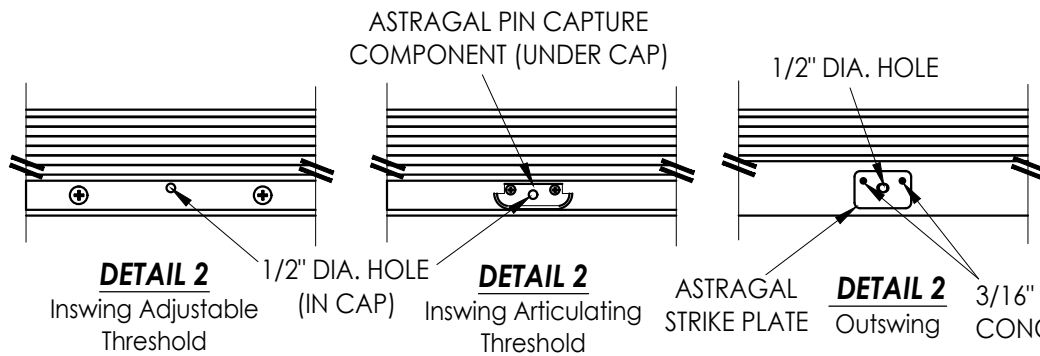
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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.



DETAIL 1



Documents Prepared By:
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PRODUCT:	ENDURA
PART OR ASSEMBLY:	BUCK AND FRAME ANCHORING

NO.	DATE	REVISIONS
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DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16634.2

SHEET 6 OF 6