



AFCO Millwork Products
11000 Green Valley Dr.
Olive Branch, MS 38654

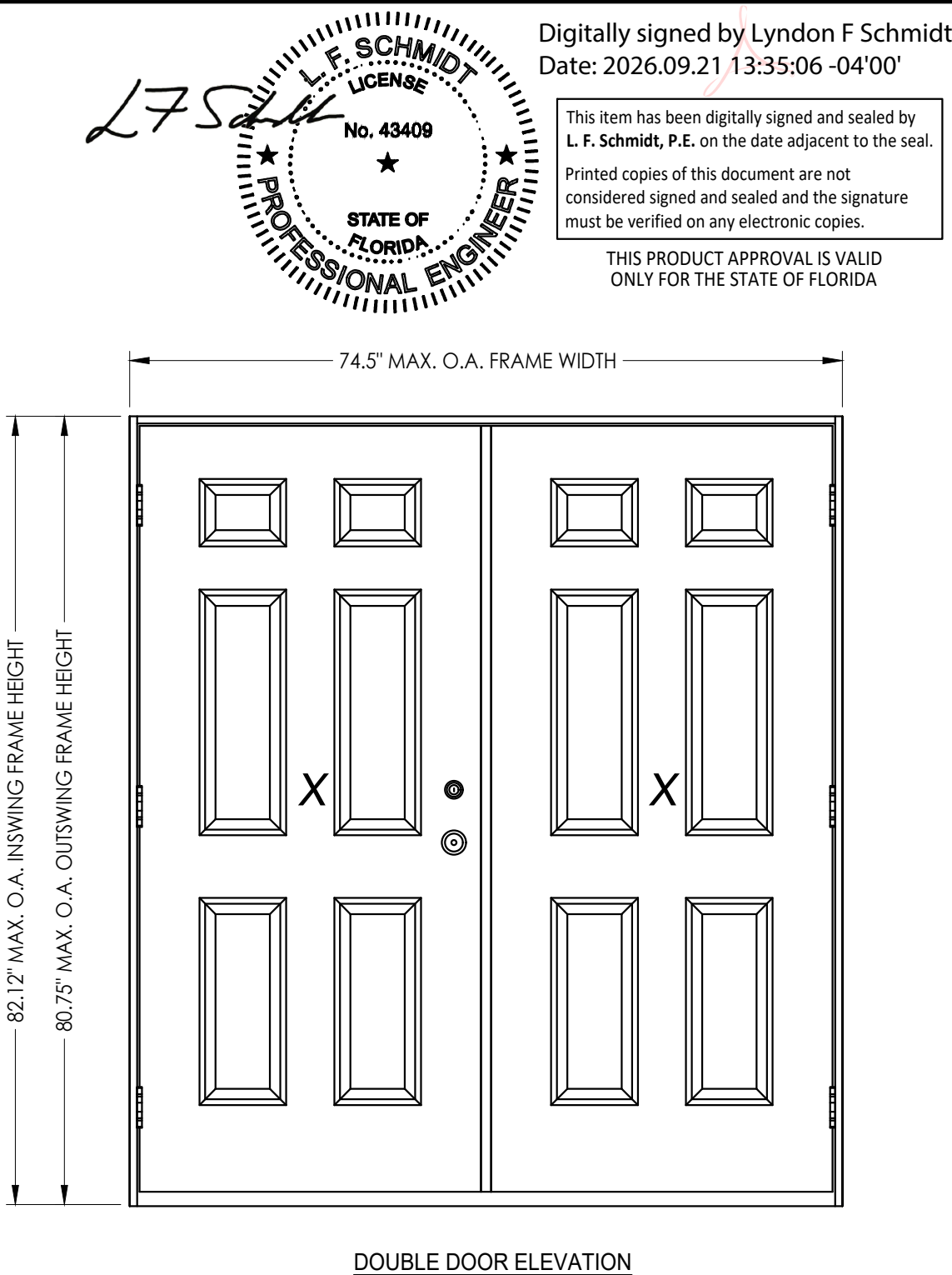
"HVHZ" ALUMINUM "T" ASTRAGAL
INSWING / OUTSWING
"IMPACT"

GENERAL NOTES

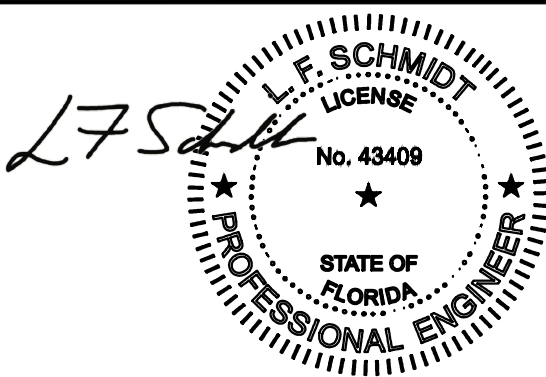
1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996.
5. This product has been tested in the door panels as specified in this approval. Substitution into a similar product may be approved for use by the local Authority Having Jurisdiction. In all cases, the door used must possess a comparable current Florida Statewide product approval. The door panel size and design pressure (DP) rating shall not exceed the sizes and DP ratings shown in this approval or the steel side hinged swing door approval being used.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations meet the water infiltration requirements for the "HVHZ".
8. Inswing configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
9. All steel shall be protected as specified in FBC Section 2222.6.
10. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

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

"HVHZ" ALUMINUM "T" ASTRAGAL



"HVHZ" ALUMINUM "T" ASTRAGAL by AFCO					
DOOR PANEL	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
THERMA-TRU STEEL	74.5" X 82.12"	+50.0	-55.0	+50.0	-55.0
PLASTPRO FIBERGLASS	74.5" X 82.12"	N/A	N/A	+60.0	-60.0



Digitally signed by Lyndon F Schmidt
Date: 2026.09.21 13:35:06 -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

PRODUCT:
"HVHZ" ALUMINUM "T" ASTRAGAL
PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

REVISIONS
NO. DATE

8 9/21/26 UPDATE TO 9TH ED. (2026) FBC LFS

7 6/26/24 ADD FLAT ASTRAGAL PROFILE LFS

6 8/09/23 UPDATE TO 8TH ED. (2023) FBC LFS

DATE BY

DATE: 3/27/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

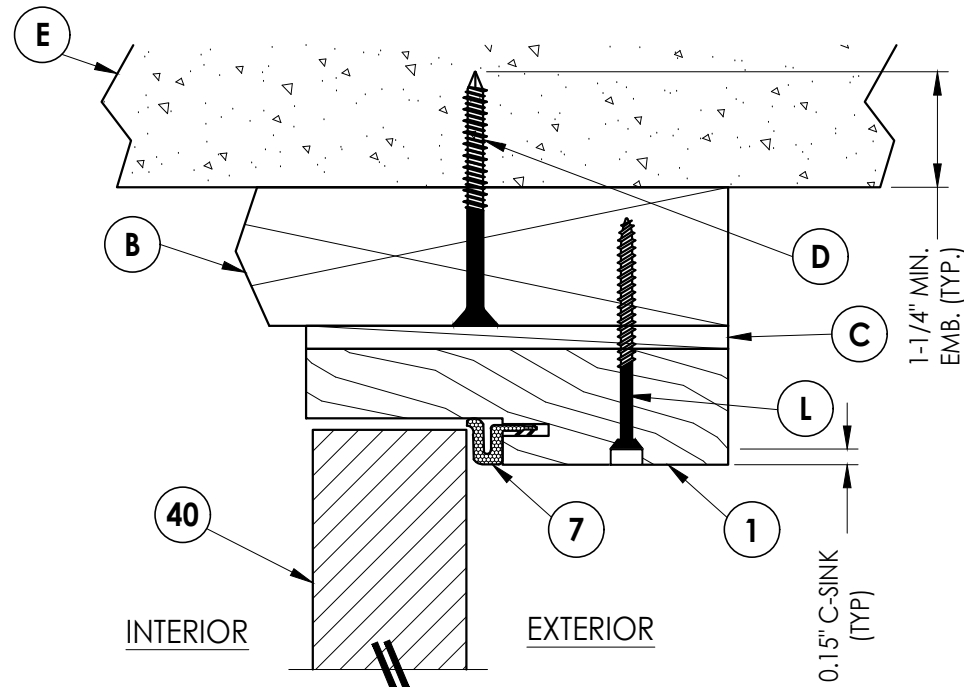
DRAWING NO.: FL-13727.3

SHEET 1 OF 6

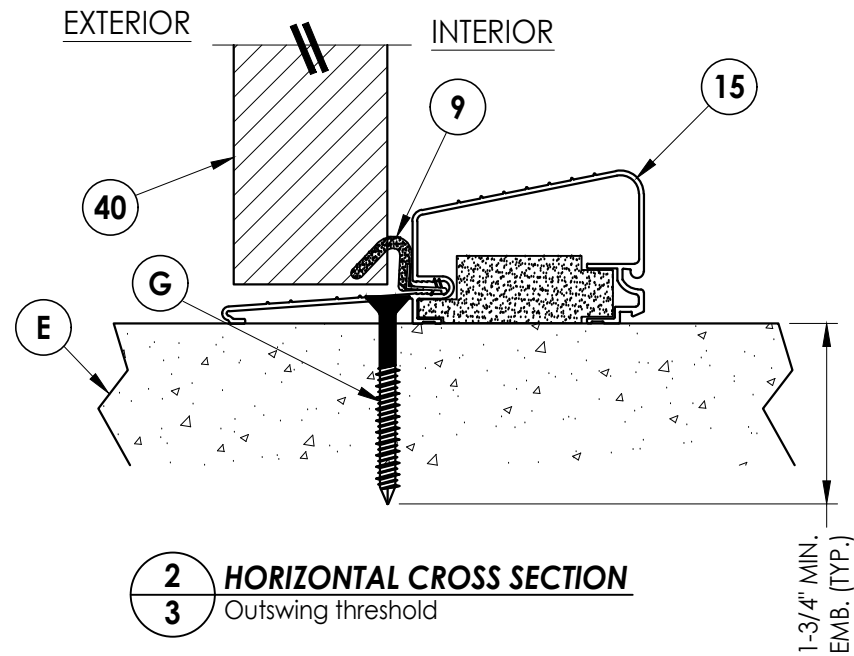
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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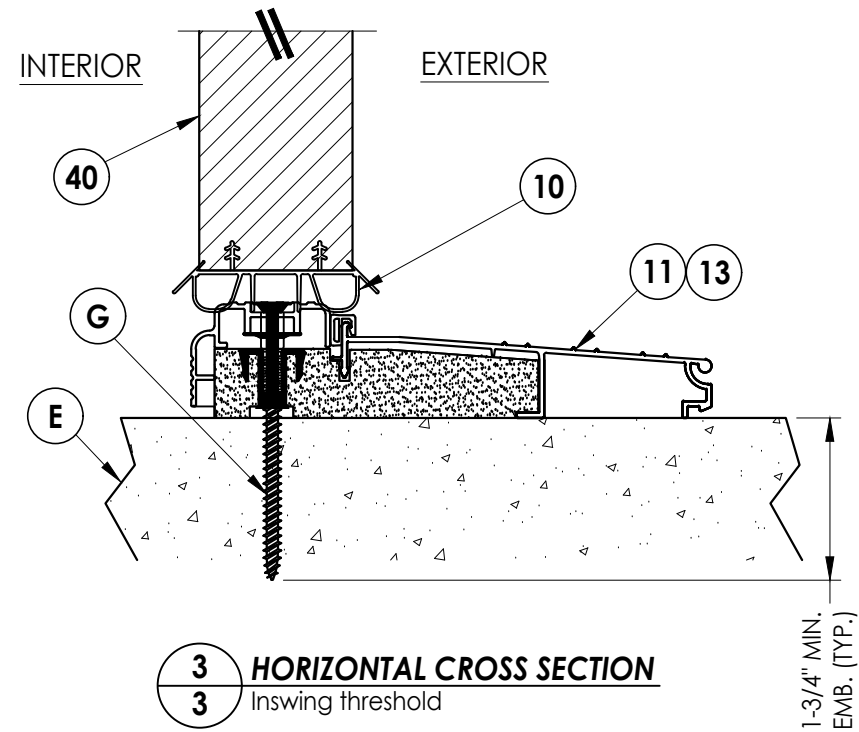
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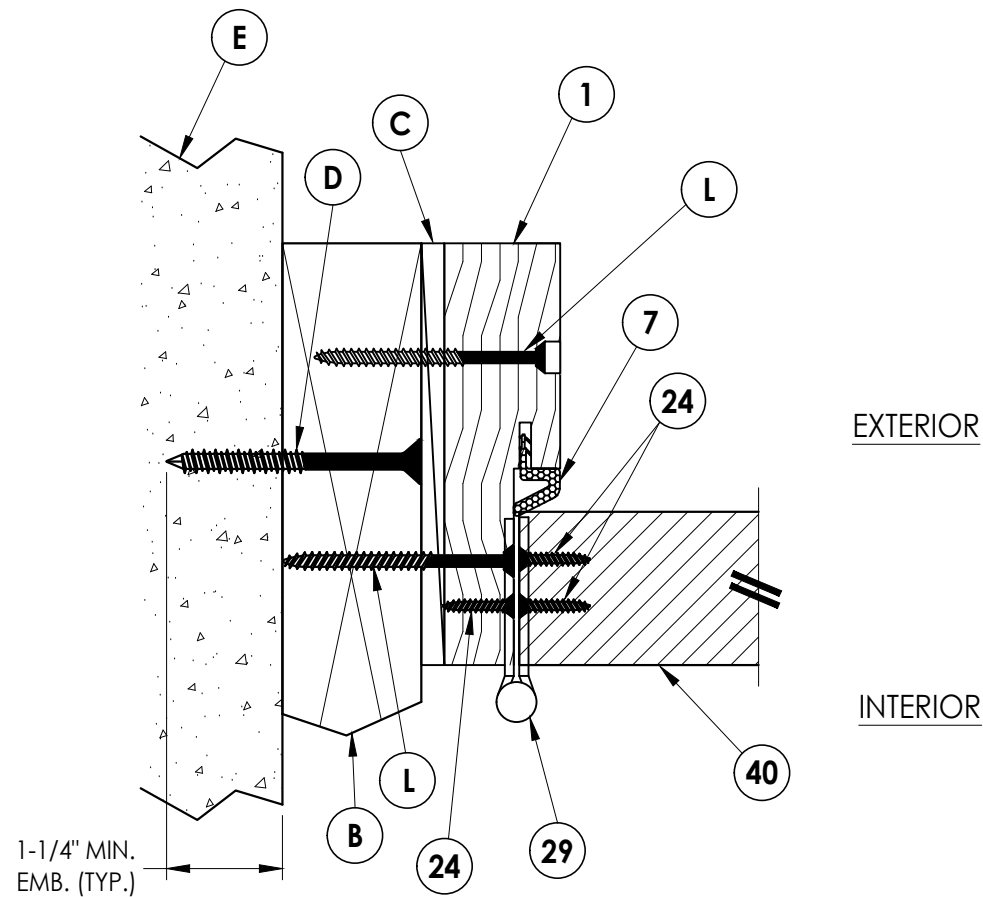
1 **VERTICAL CROSS SECTION**
3 Inswing shown
Outswing also approved



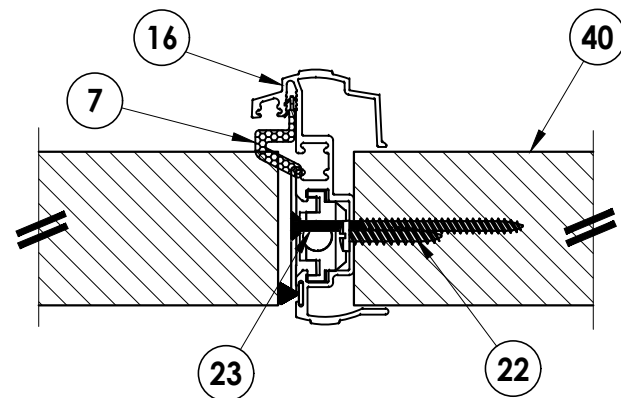
2 **HORIZONTAL CROSS SECTION**
3 Outswing threshold



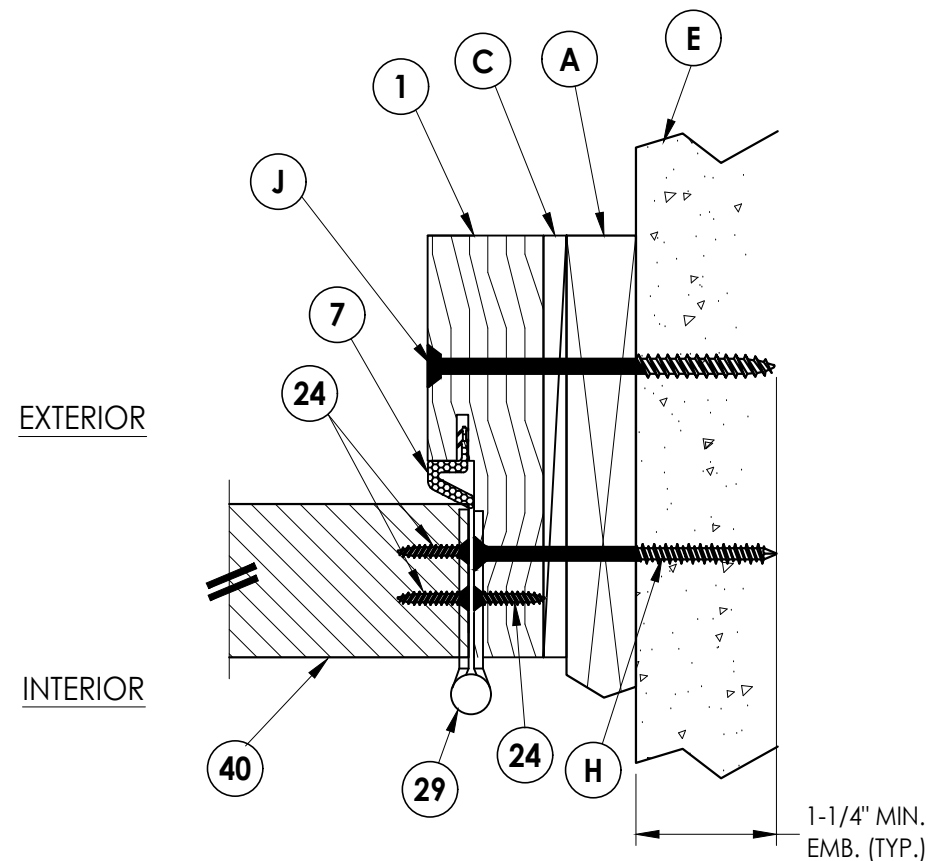
3 **HORIZONTAL CROSS SECTION**
3 Inswing threshold



4 **HORIZONTAL CROSS SECTION**
3 Inswing shown
Outswing also approved



5 **HORIZONTAL CROSS SECTION**
3 Inswing shown
Outswing also approved



6 **HORIZONTAL CROSS SECTION**
3 Shown w/1X sub-buck

Documents Prepared By:
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P.E. No. 43409

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FBPE Registry No. 9813

PRODUCT:
"HVHZ" ALUMINUM "1" ASTRALAG

PART OR ASSEMBLY:
HORIZONTAL AND VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
8	9/21/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	6/26/24	ADD FLAT ASTRALAG PROFILE LFS
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC LFS

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SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

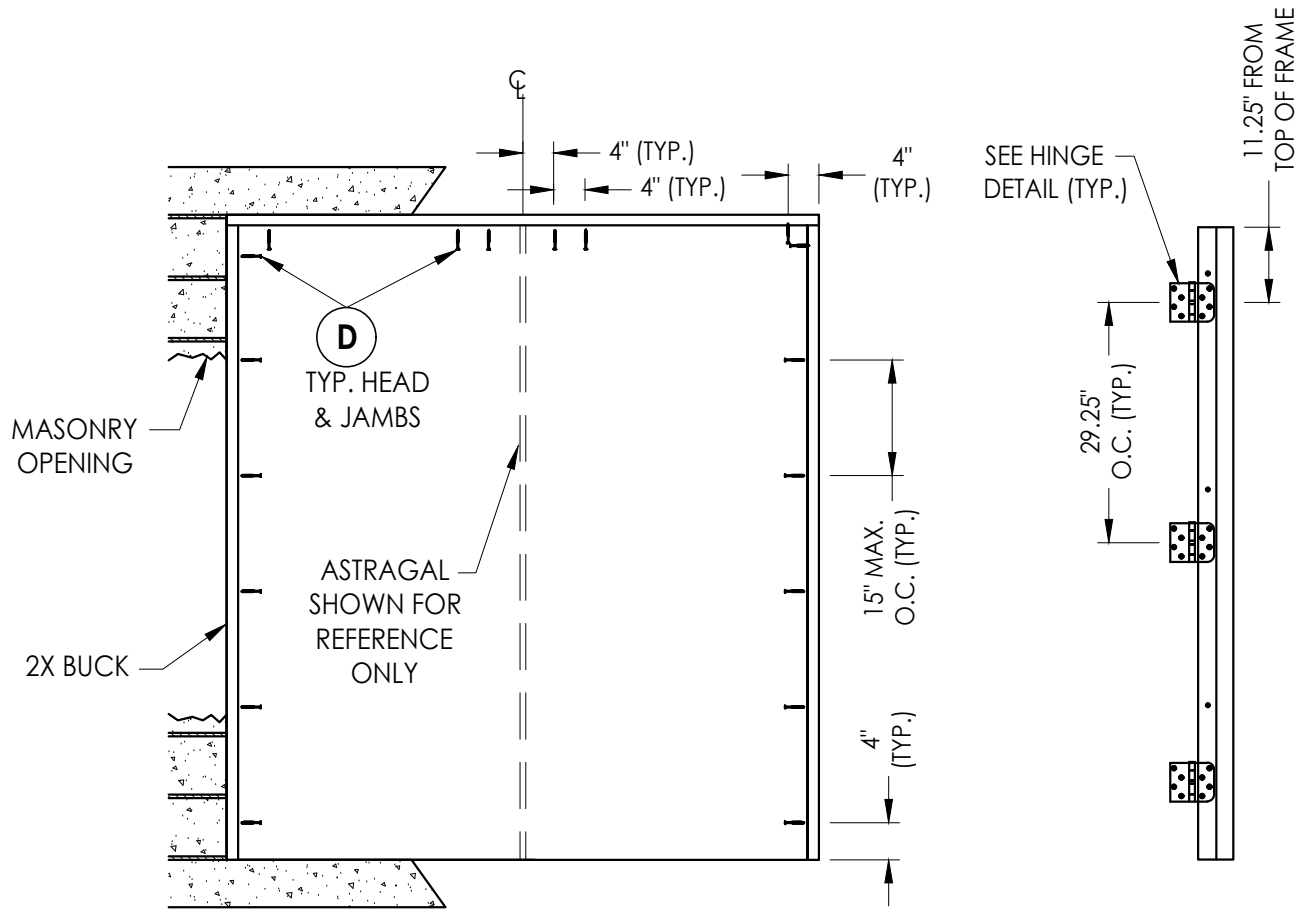
DRAWING NO.:

FL-13727.3

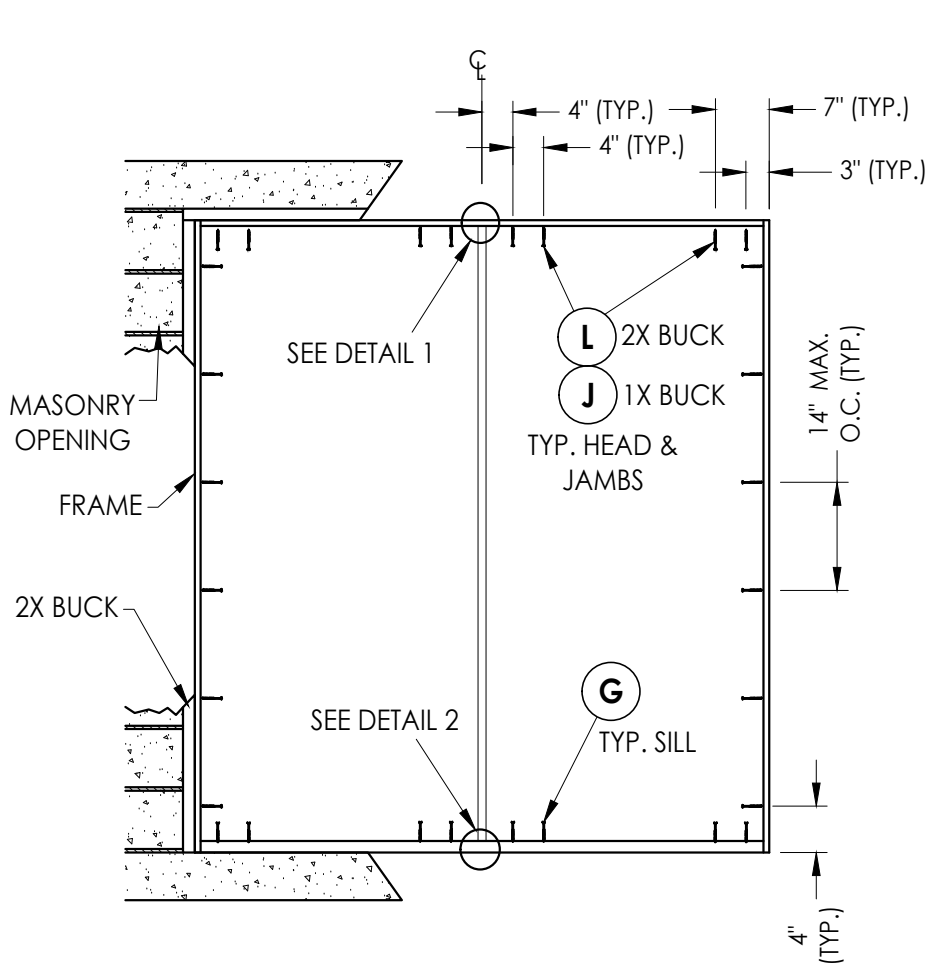
SHEET 3 OF 6

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BUCK ANCHORING



FRAME ANCHORING
Masonry construction

ASTRAGAL

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.

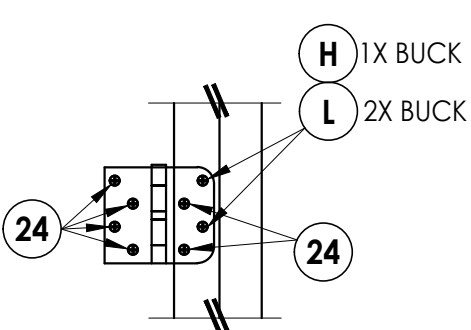
CONCRETE ANCHOR NOTES:

- 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:

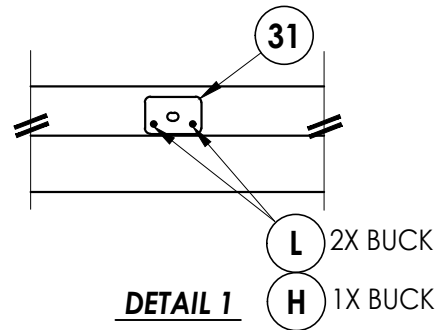
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

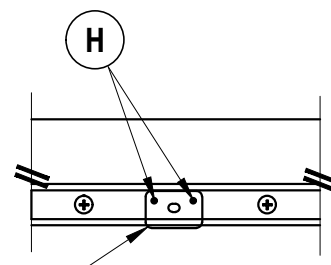
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



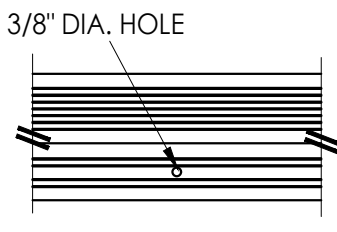
HINGE DETAIL



DETAIL 1



DETAIL 2
Inswing



DETAIL 2
Outswing

Documents Prepared By:
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P.E. No. 43409

PRODUCT:
"HVHZ" ALUMINUM "I" ASTRAGAL

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

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DATE: 3/27/13

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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13727.3

SHEET 5 OF 6

