

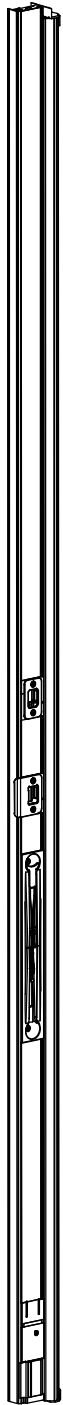


Ultimate Flip Lever Astragal
INSWING / OUTSWING
"NON-IMPACT"

GENERAL NOTES

- 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.

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



Ultimate Flip Lever Astragal

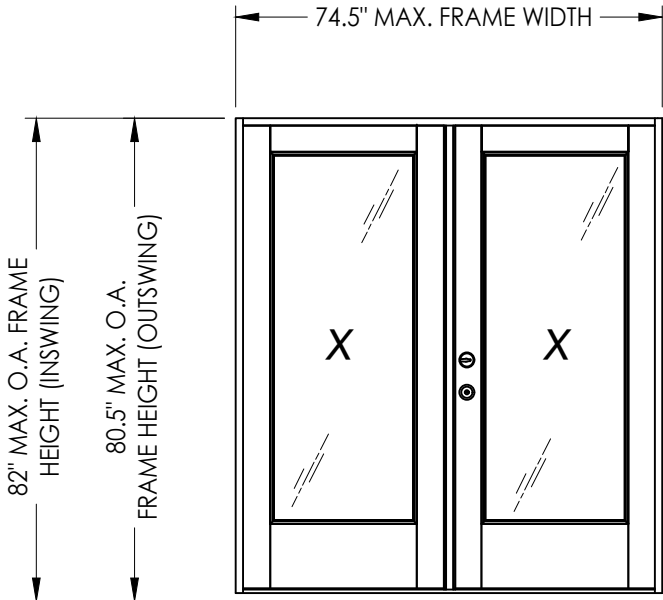
L. F. SCHMIDT
LICENSE
No. 43409
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Lyndon F Schmidt
Date: 2026.07.19 11:21:53 -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



ULTIMATE FLIP LEVER ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
JELD-WEN Insert Glazed (STEEL)	INSWING	74.5" X 82"	+40.0	-40.0
	OUTSWING	74.5" X 80.5"	+40.0	-40.0

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

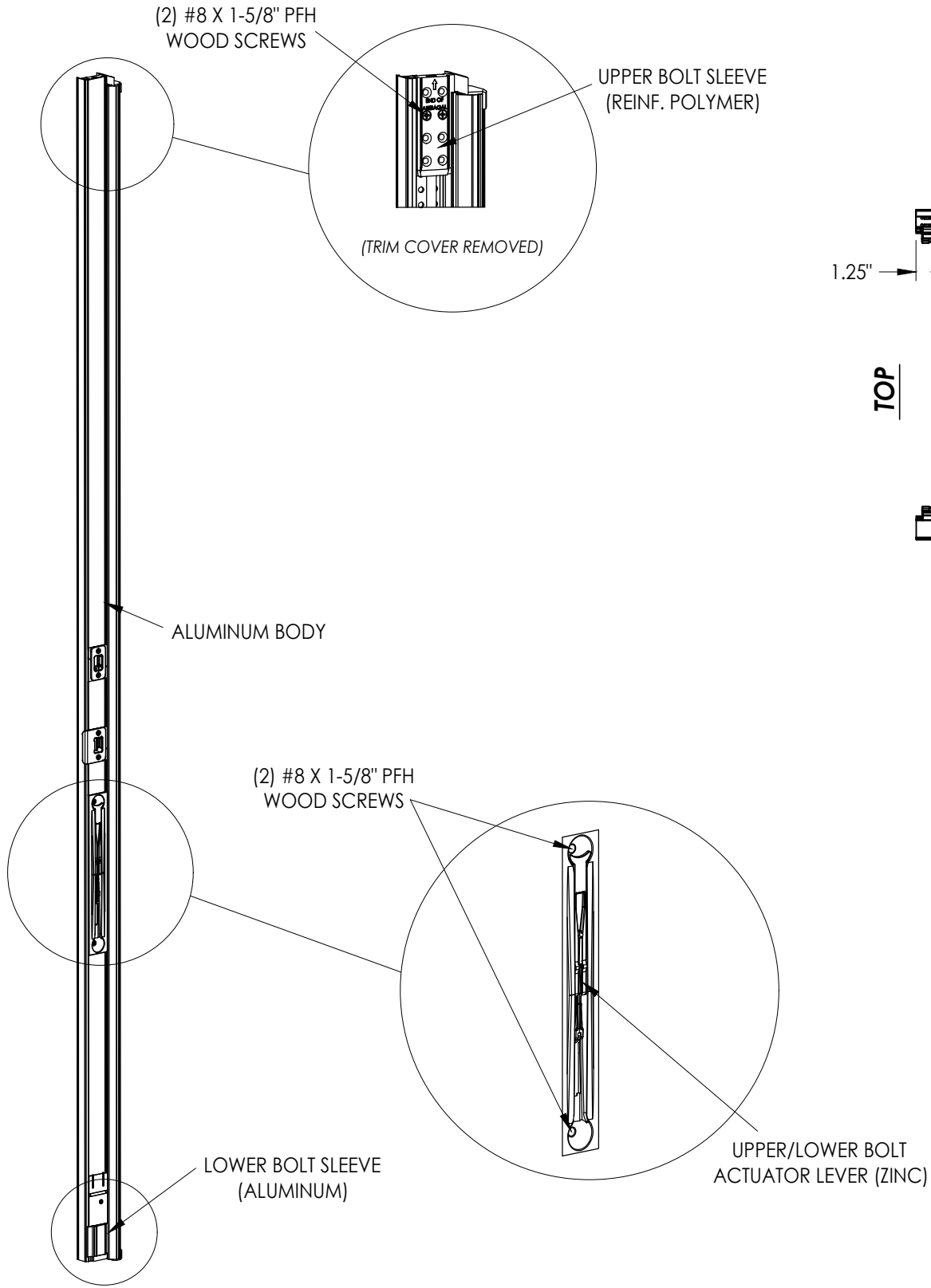
PRODUCT: ENDURA

PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

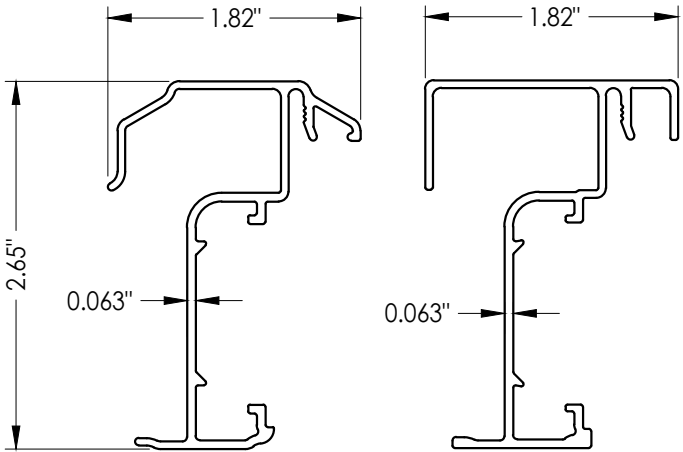
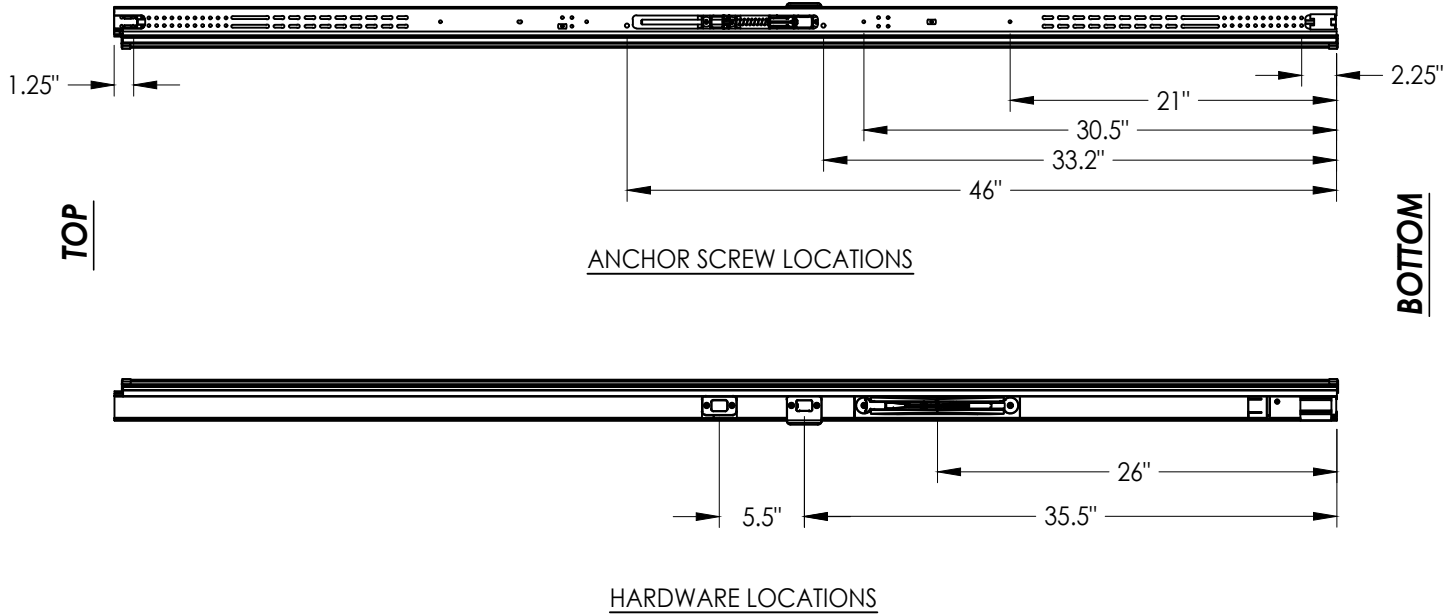
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7	4/16/24	ADD MODERN ASTRAGAL PROFILE	LFS
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
NO.	DATE		BY
REVISIONS			

DATE: 8/30/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14823.8
SHEET 1 OF 6

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ULTIMATE FLIP LEVER ASTRAGAL



"TRADITIONAL" PROFILE "MODERN" PROFILE

ASTRAGAL SECTIONS

NO.	DATE	REVISIONS
8	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	4/16/24	ADD MODERN ASTRAGAL PROFILE LFS
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
		BY

DATE:	8/30/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14823.8
SHEET	2 OF 6

PRODUCT:	ENDURA
PART OR ASSEMBLY:	ASTRAGAL DETAILS

Documents Prepared By:	Lyndon F. Schmidt P.E. No. 43409
	<i>R^W</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813

Diagram illustrating the cross-section of a door assembly, showing the interior and exterior views.

Interior View (Left):

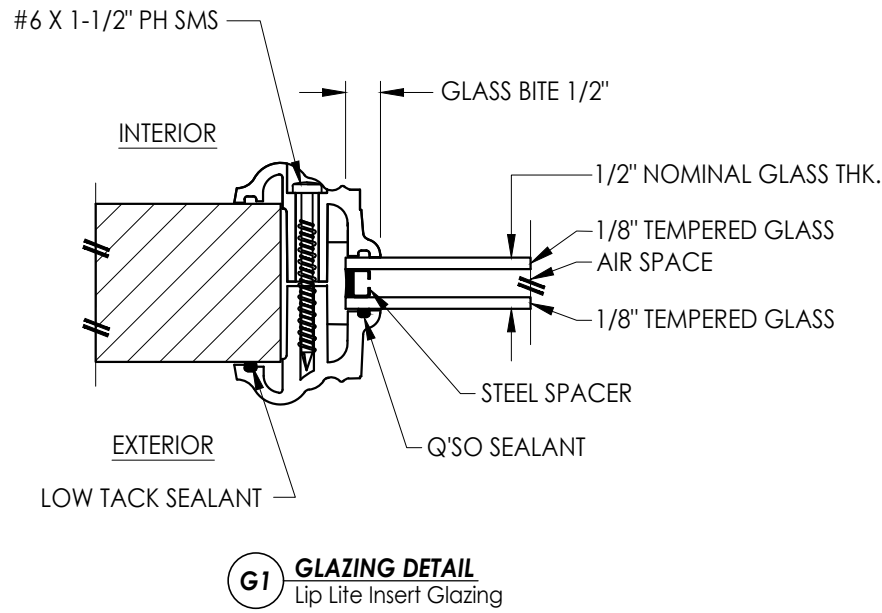
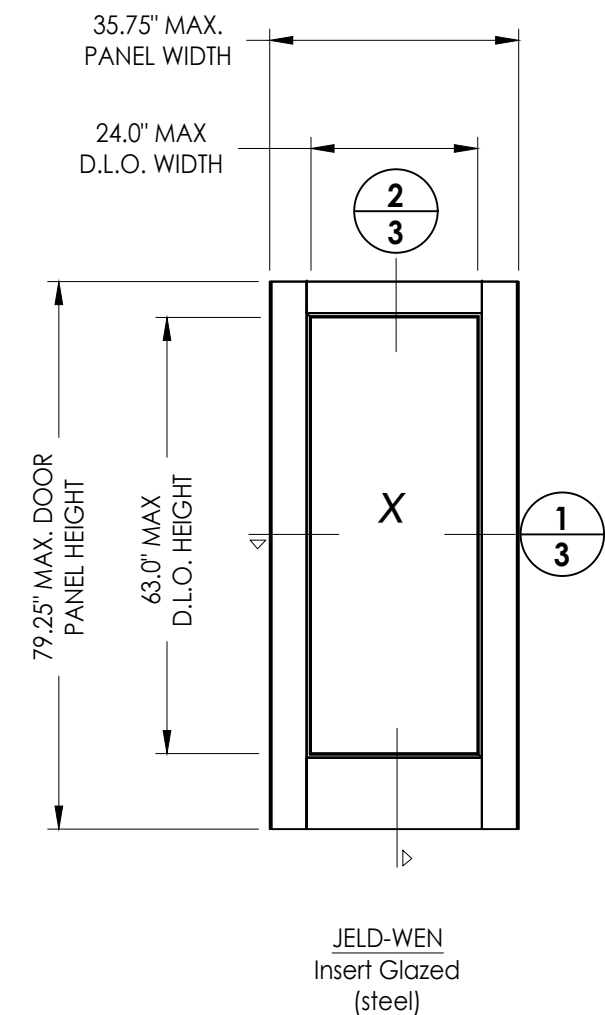
- TOP RAIL (WOOD):** The upper portion of the door assembly.
- STEEL SKIN (0.02" MIN.):** The thin metal layer on the interior side.
- Honeycomb Core:** The insulating material between the steel skin and the exterior skin.
- Dimension:** 1.75" (width of the top rail).
- Dimension:** 1/2" (thickness of the honeycomb core).

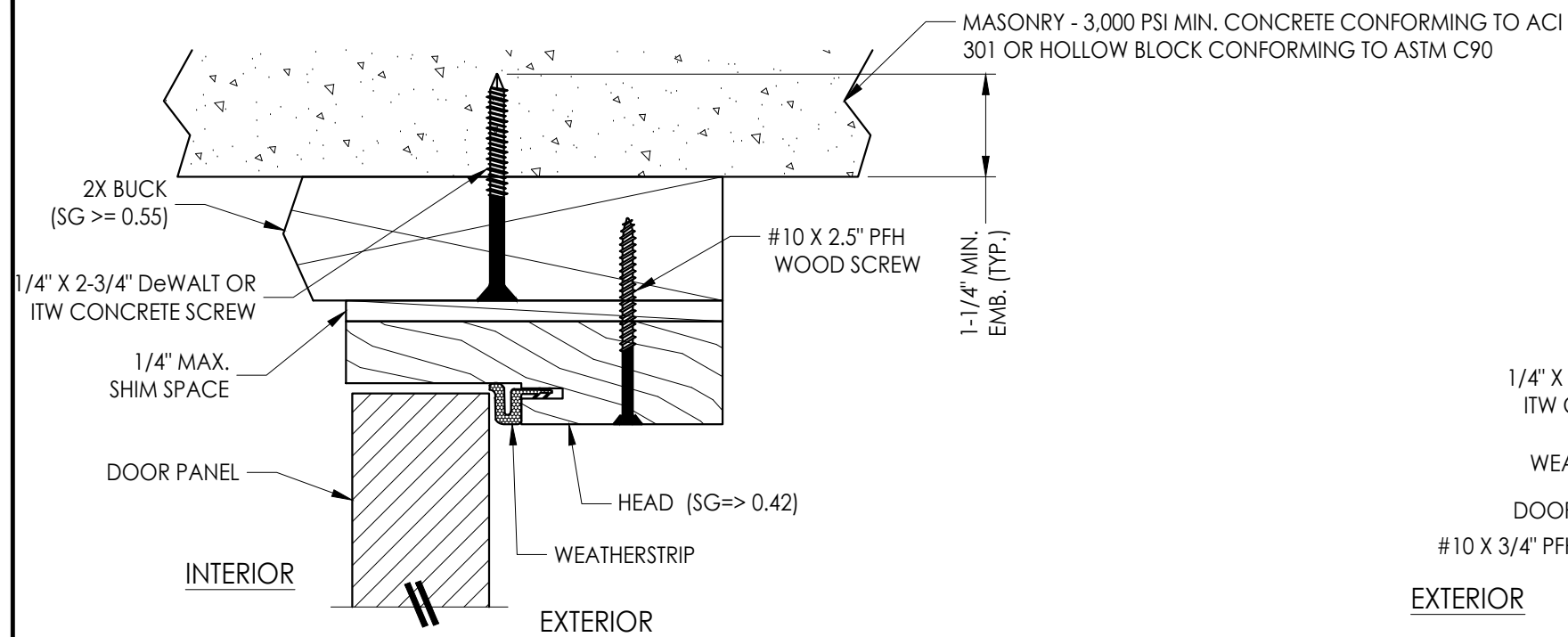
Exterior View (Right):

- G1:** A hinge or fastener located on the exterior side.
- Vertical Rod:** A rod passing through the door assembly, secured by a nut and washer.

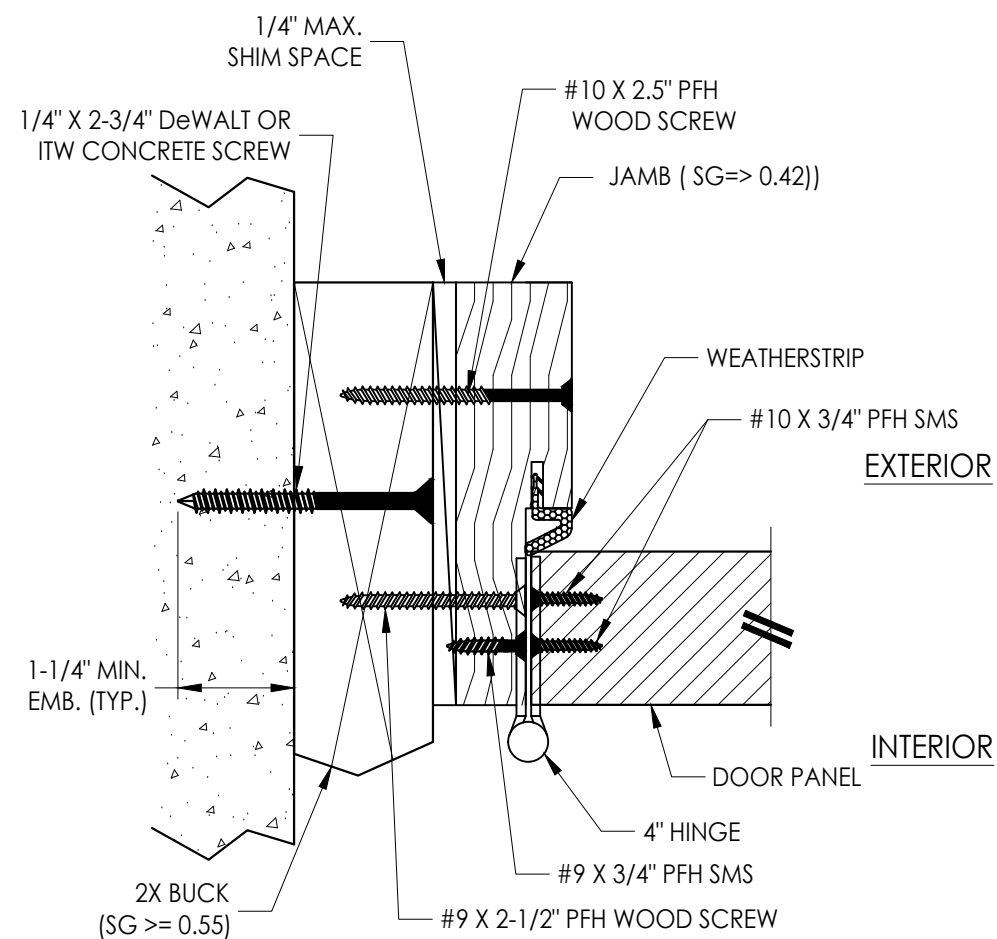
Orientation: The diagram is labeled **INTERIOR** on the left and **EXTERIOR** on the right.

2 **VERTICAL CROSS SECTION**
3

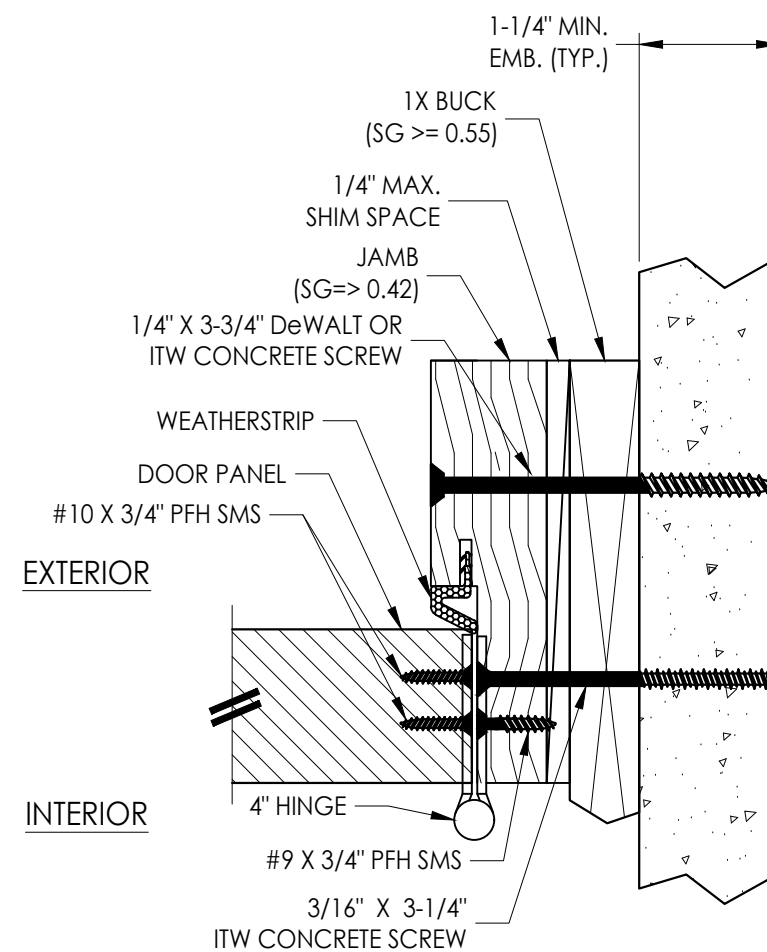
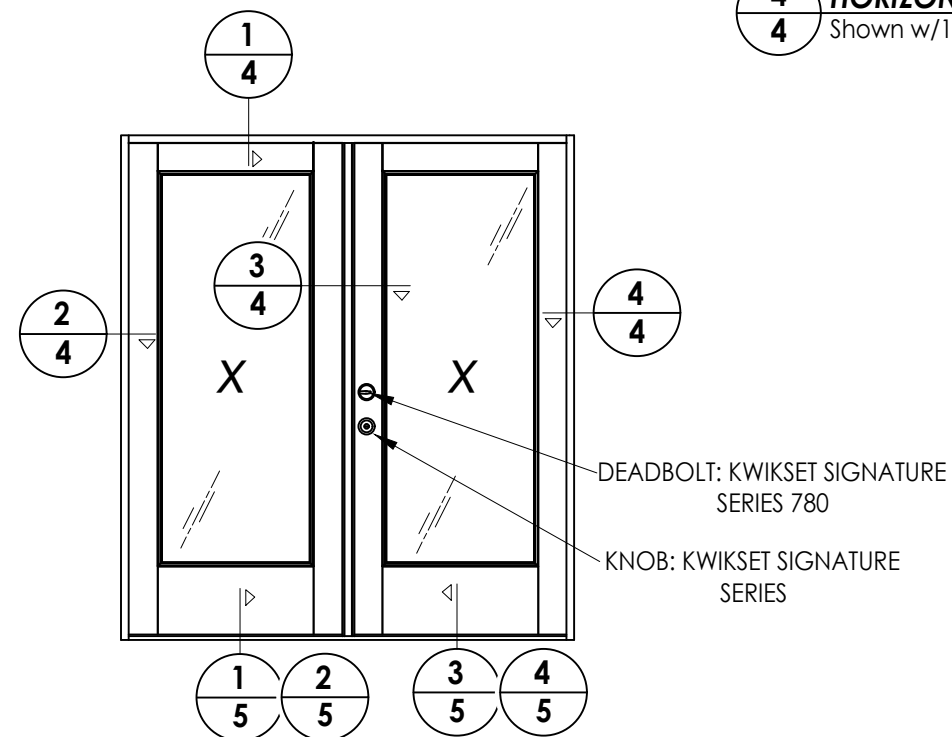
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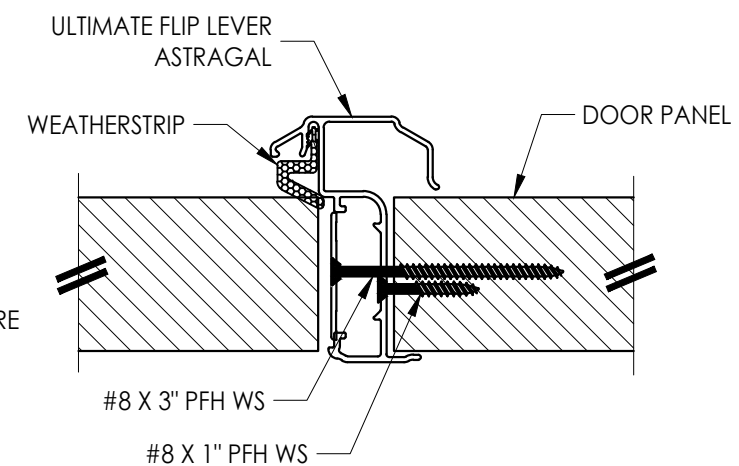
1 **VERTICAL CROSS SECTION**
4



2 **HORIZONTAL CROSS SECTION**
4

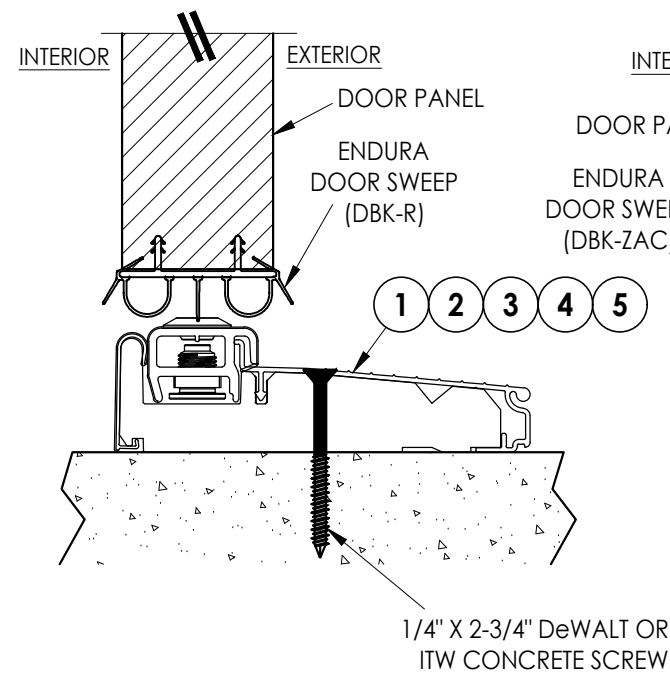


4 HORIZONTAL CROSS SECTION
 4 Shown w/1X sub-buck

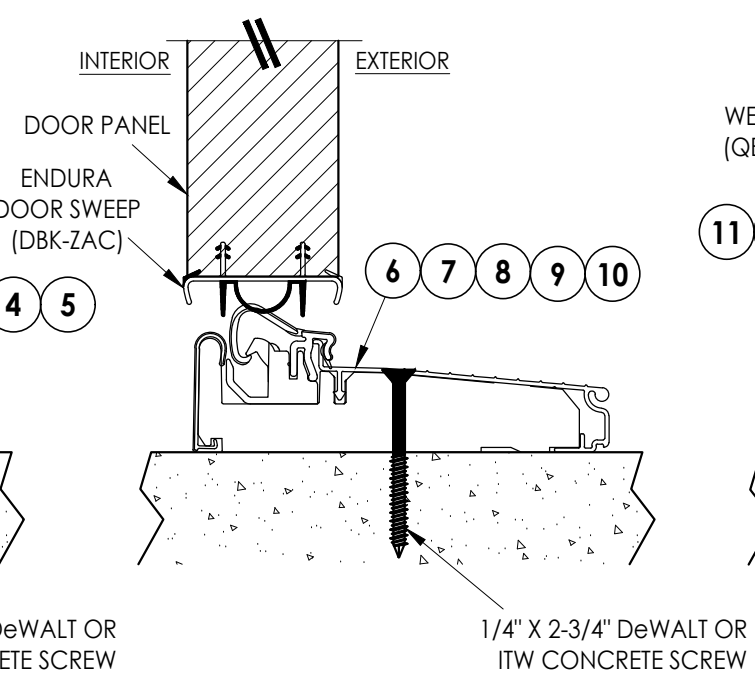


3 HORIZONTAL CROSS SECTION

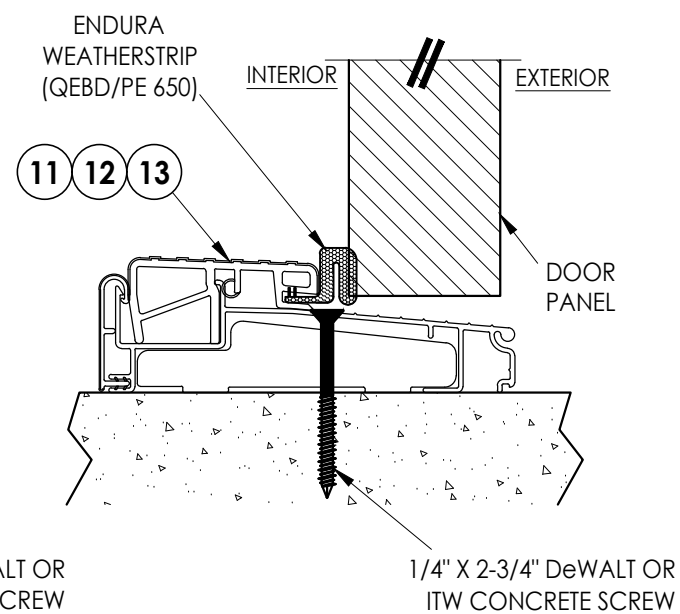
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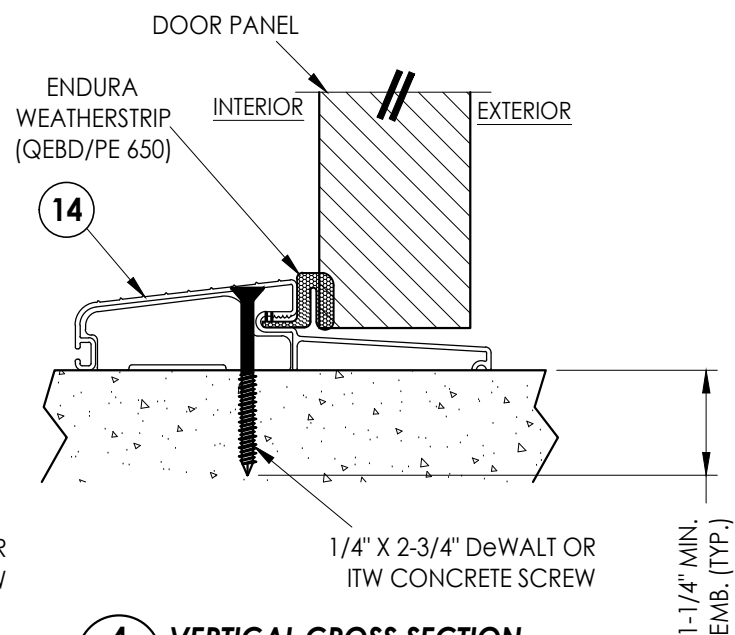
1 VERTICAL CROSS SECTION
5 Inswing Adjustable Threshold



2 **VERTICAL CROSS SECTION**
5 Inswing Articulating Threshold
w/ Pin CAPture

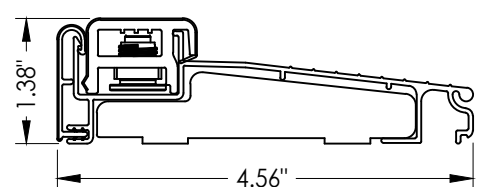


3 VERTICAL CROSS SECTION
5 Outswing Bump Threshold

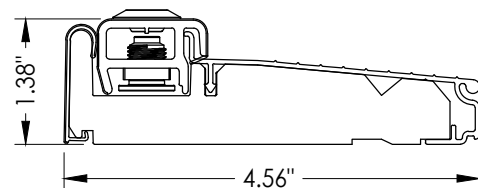


4 VERTICAL CROSS SECTION

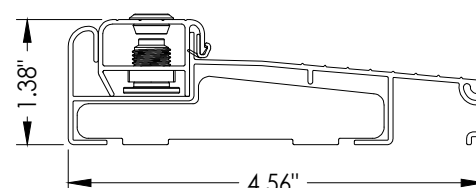
5 Outswing Bump Threshold



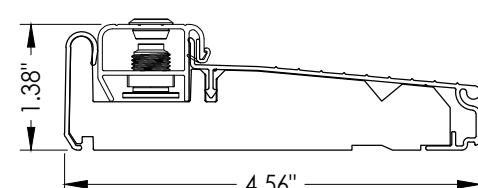
1 INSWING ADJUSTABLE THRESHOLD



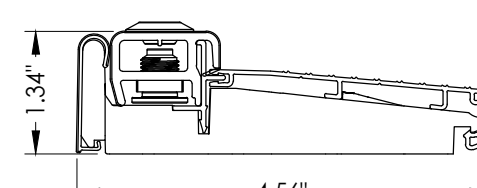
2 INSWING ADJUSTABLE THRESHOLD



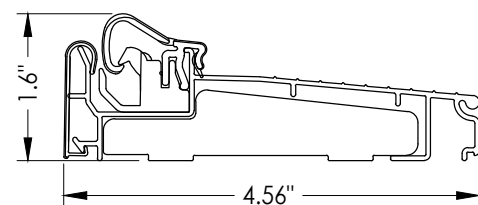
3 INSWING ADJUSTABLE THRESHOLD



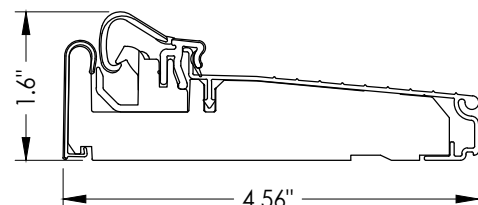
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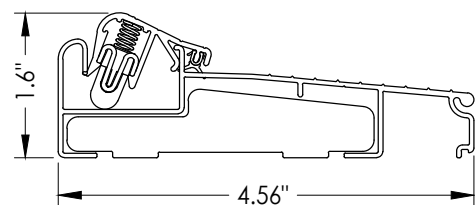
5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS



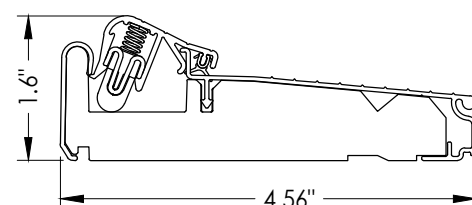
6 INSWING ARTICULATING THRESHOLD



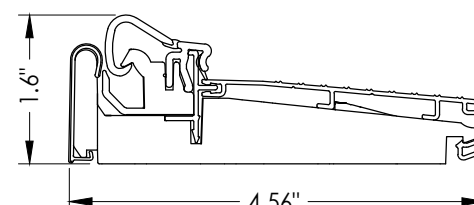
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN



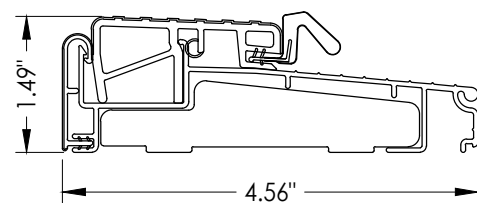
8 INSWING ARTICULATING THRESHOLD



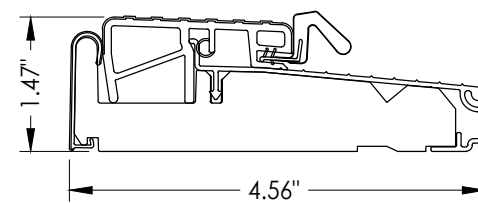
9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



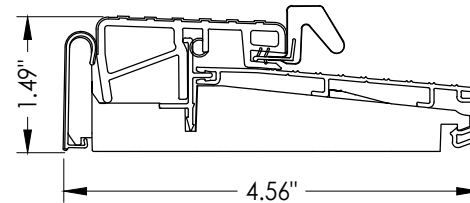
10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS



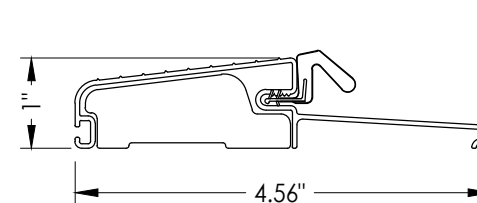
11 OUTSWING THRESHOLD



12 **OUTSWING THRESHOLD**
ZOB4565FN



13 **OUTSWING THRESHOLD**



14 OUTSWING THRESHOLD
FOB4566

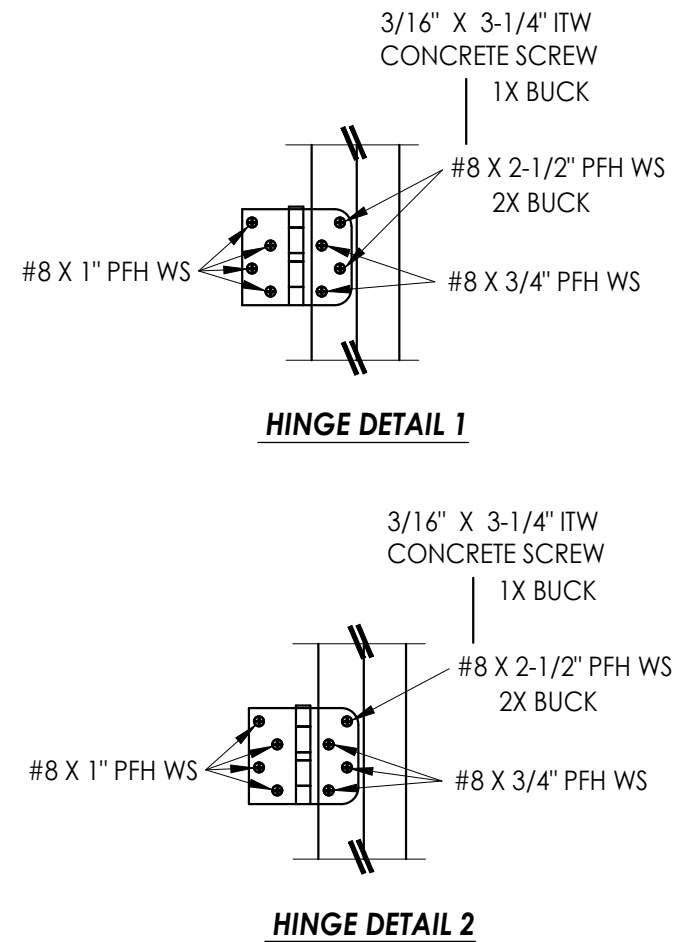
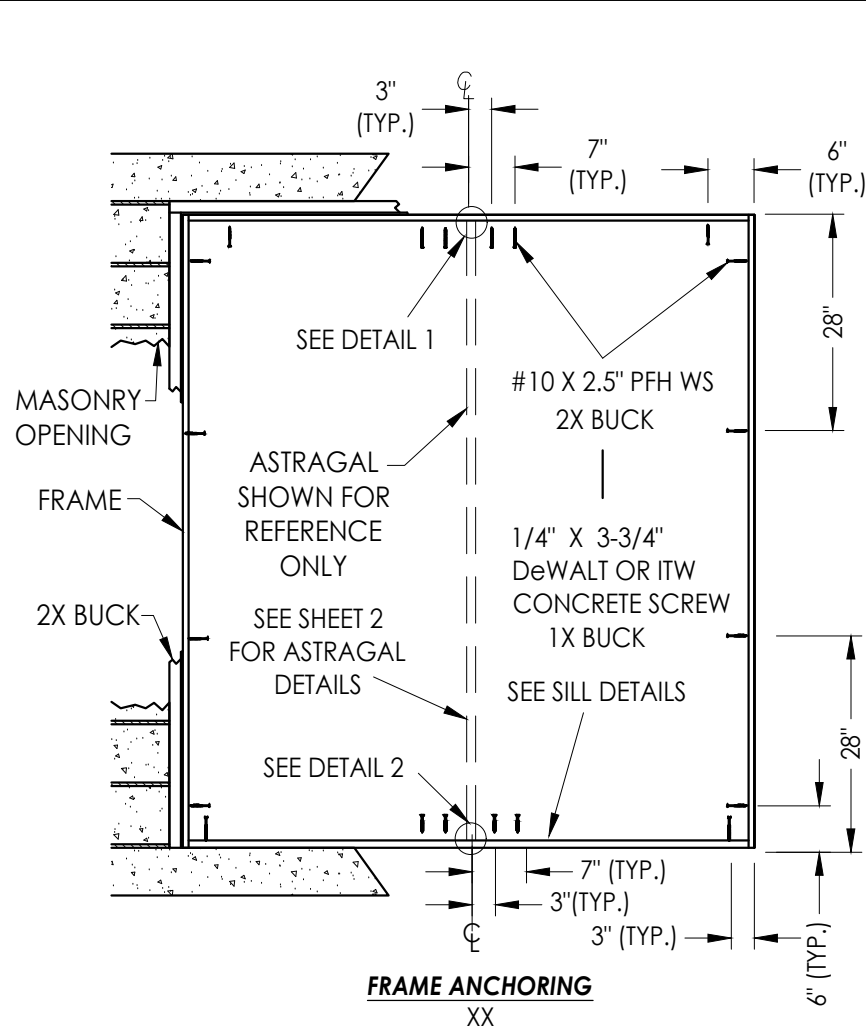
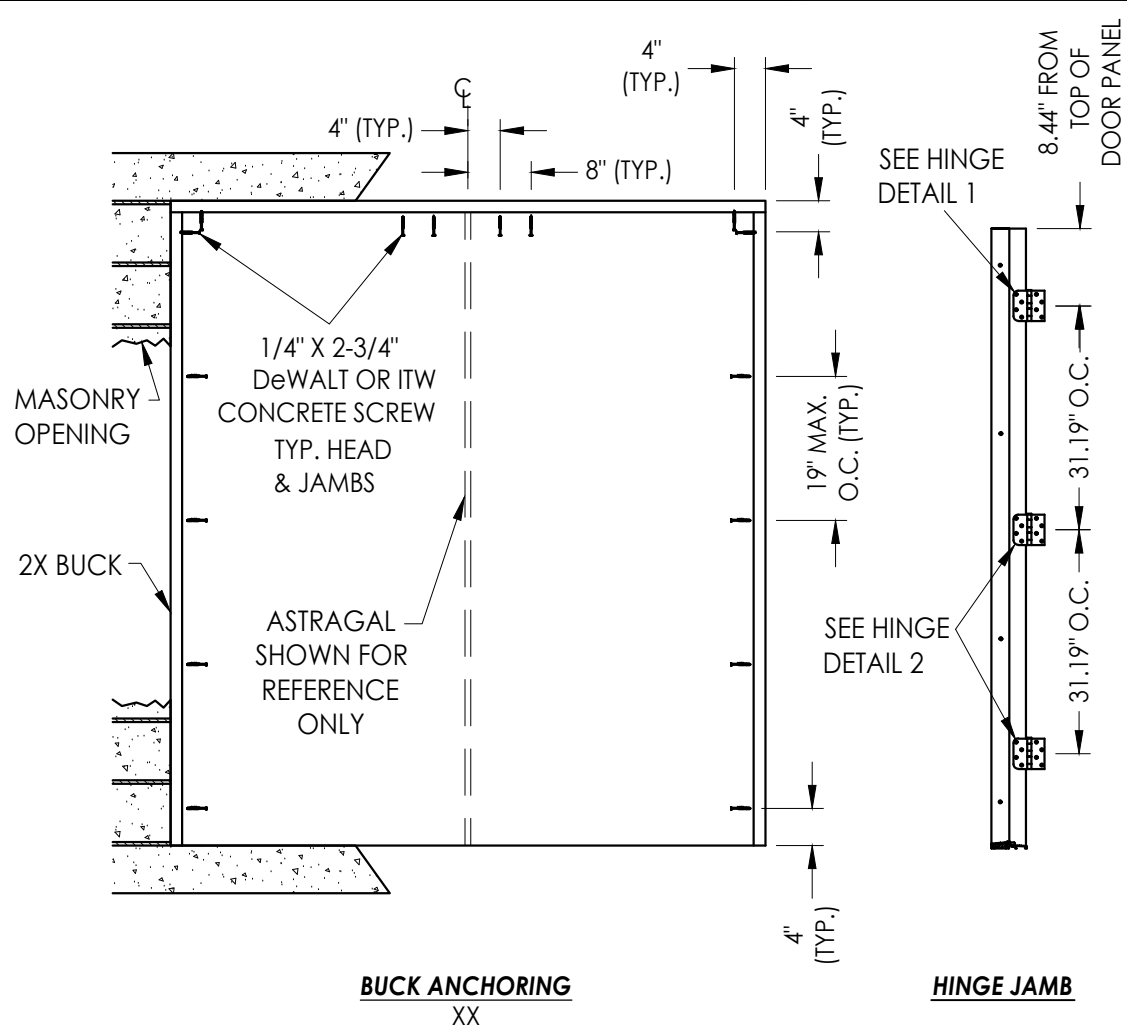
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REVISIONS				

DATE:	8/30/11
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-14823.8
SHEET	5 OF 6

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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.

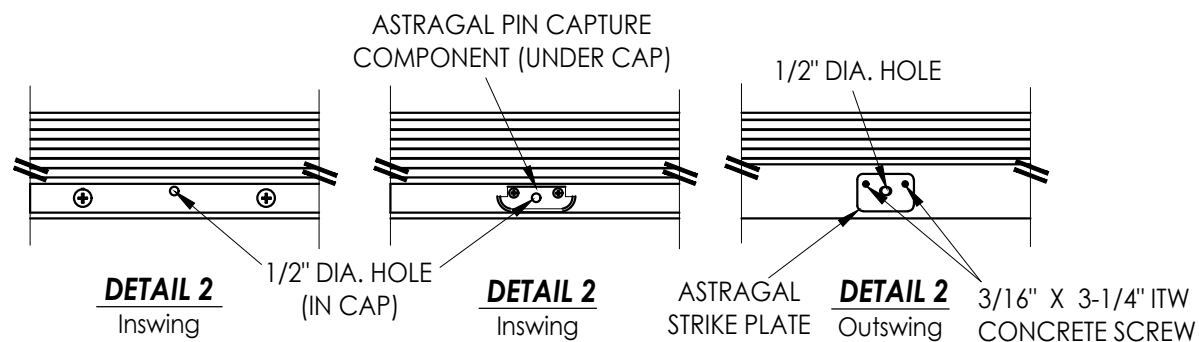
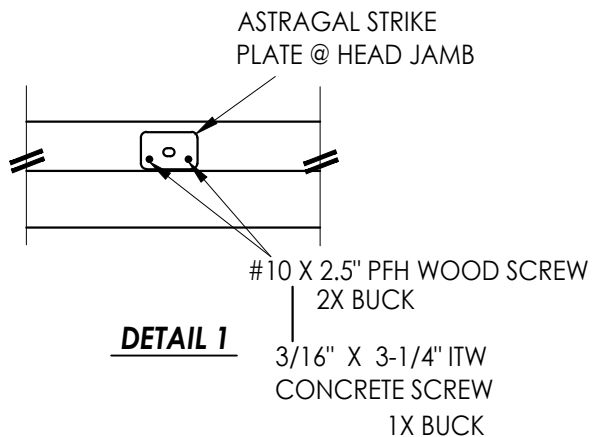
CONCRETE ANCHOR NOTES:

- 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®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	1"	4"

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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PRODUCT: ENDURA

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING

NO.	DATE	REVISIONS
8	7/03/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	4/16/24	ADD MODERN ASTRAGAL PROFILE LFS
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DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14823.8

SHEET 6 OF 6