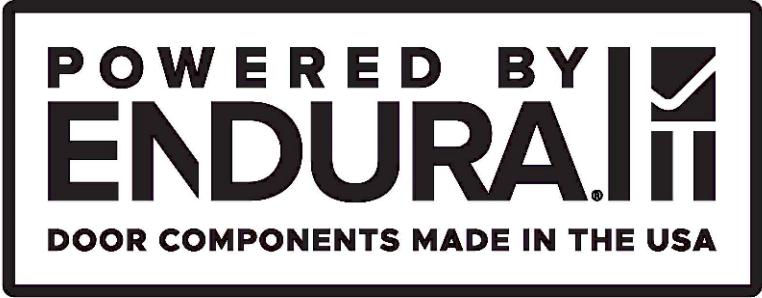


Z:\2023 FBC Drawings\Endura Products\FL-14818 R10\FL-14818.11-18.dwg



Ultimate Multipoint 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.

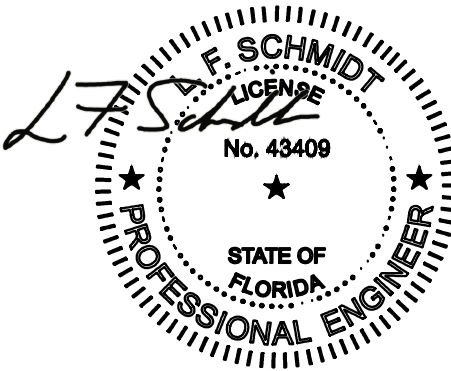
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Astragal details
3	Door panel details
4	Horizontal and vertical cross sections
5	Threshold details
6	Buck and frame anchoring



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

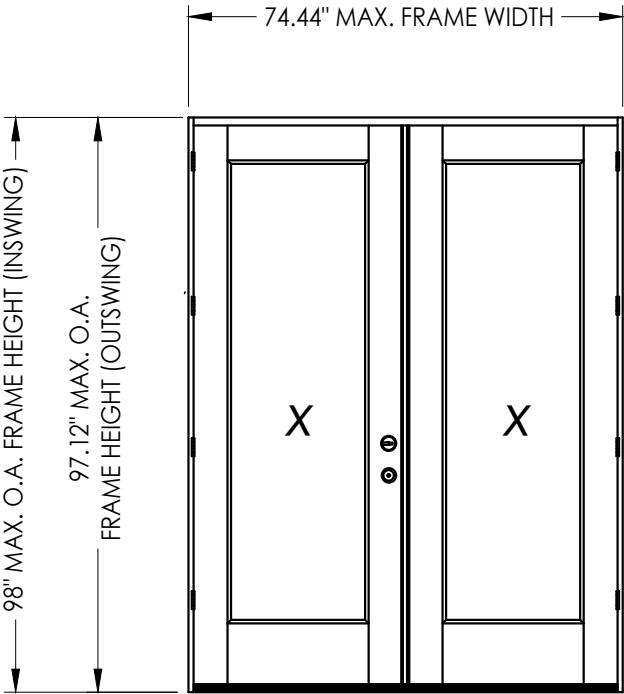
See Sheet 5 for Threshold Design Pressure Limitations



Digitally signed by Lyndon F Schmidt
Date: 2026.07.16 16:23:17 -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

8	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
7	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
6	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
NO.	DATE			BY

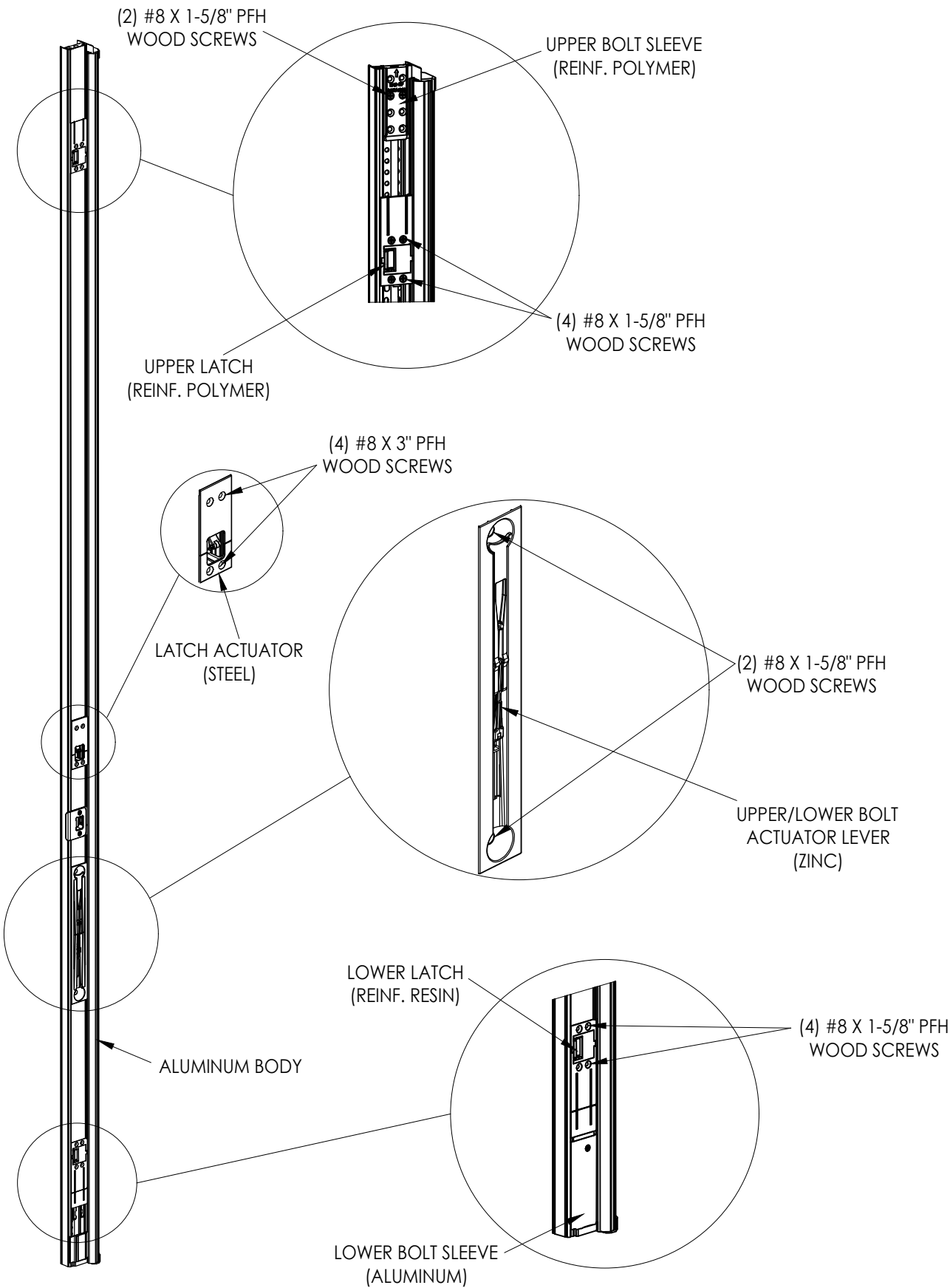
REVISIONS

DATE: 8/30/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-14818.13
SHEET 1 OF 6

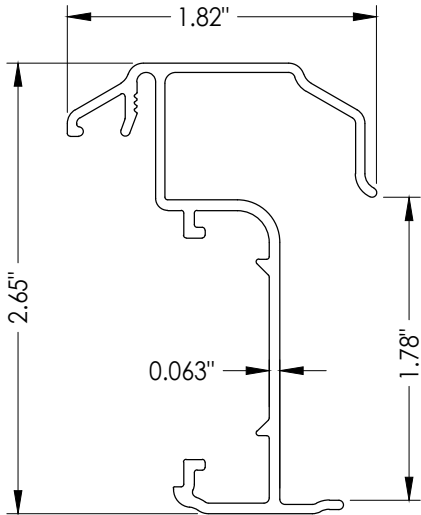
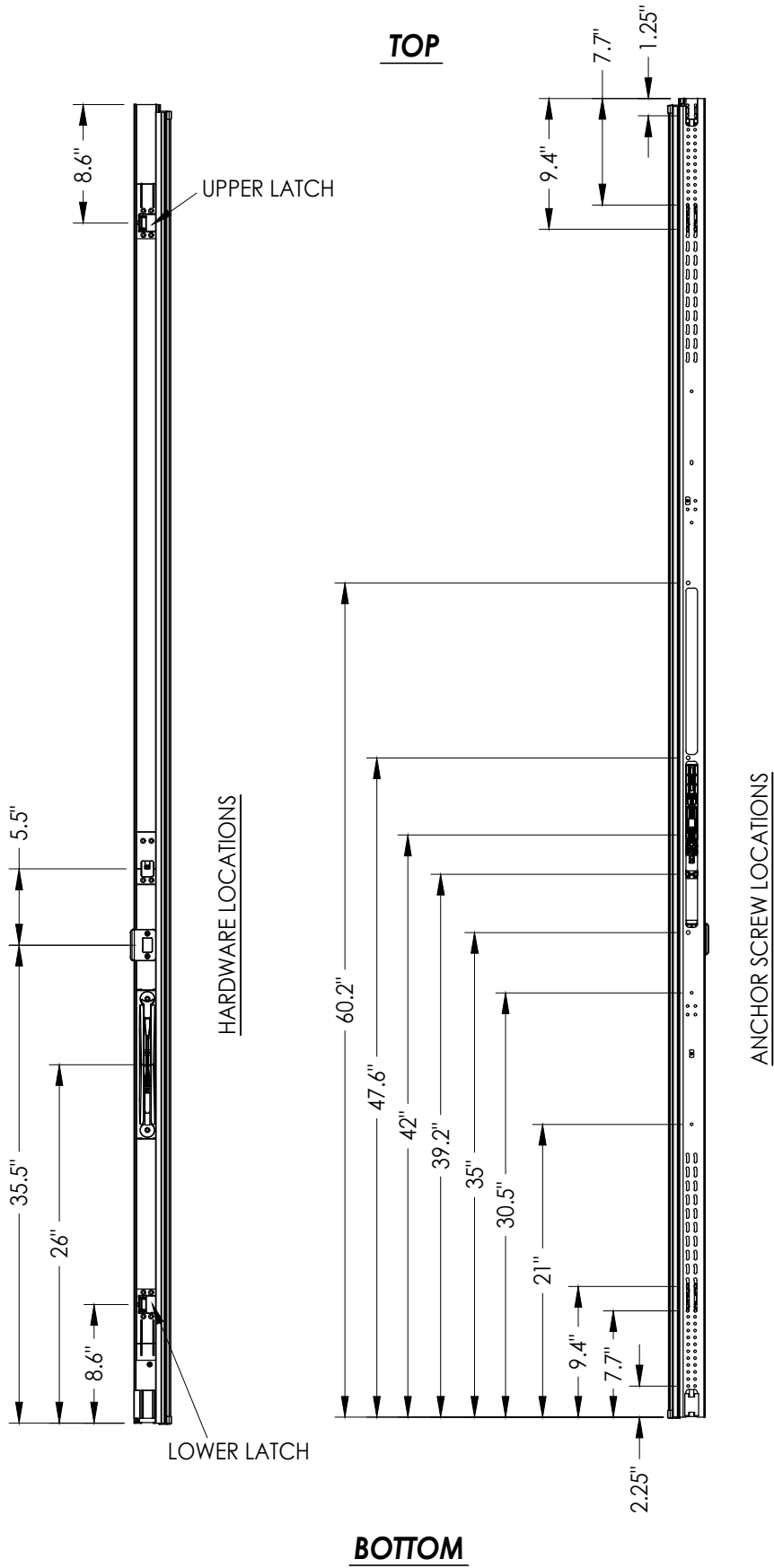
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

© 2011 R.W. BUILDING CONSULTANTS INC.

Z:\2023 FBC Drawings\Endura Products\FL-14818 R10\FL-14818.11-18.dwg



ULTIMATE MULTIPOINT ASTRAGAL



ASTRAGAL SECTION

PRODUCT:		ENDURA	
PART OR ASSEMBLY:		ASTRAGAL DETAILS	
NO.	DATE	REVISIONS	
		BY	
8	7/01/26	UPDATE TO 9TH ED. (2026)	FBC LFS
7	7/06/23	UPDATE TO 8TH ED. (2023)	FBC LFS
6	8/03/20	UPDATE TO 7TH ED. (2020)	FBC LFS

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

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

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

Interior View:

- TOP RAIL (COMP.):** The upper section of the door, measuring 1.75" in width.
- FOAM CORE (POLYURETHANE):** The main body of the door, measuring 0.9" in height.

Exterior View:

- G1:** A label pointing to the door edge.

The diagram also indicates the **INTERIOR** and **EXTERIOR** directions.

#6 X 1-3/4" PH SMS

GLASS BITE 1/2"

INTERIOR

1/2" NOMINAL GLASS THK.

1/8" TEMPERED GLASS

AIR SPACE

1/8" TEMPERED GLASS

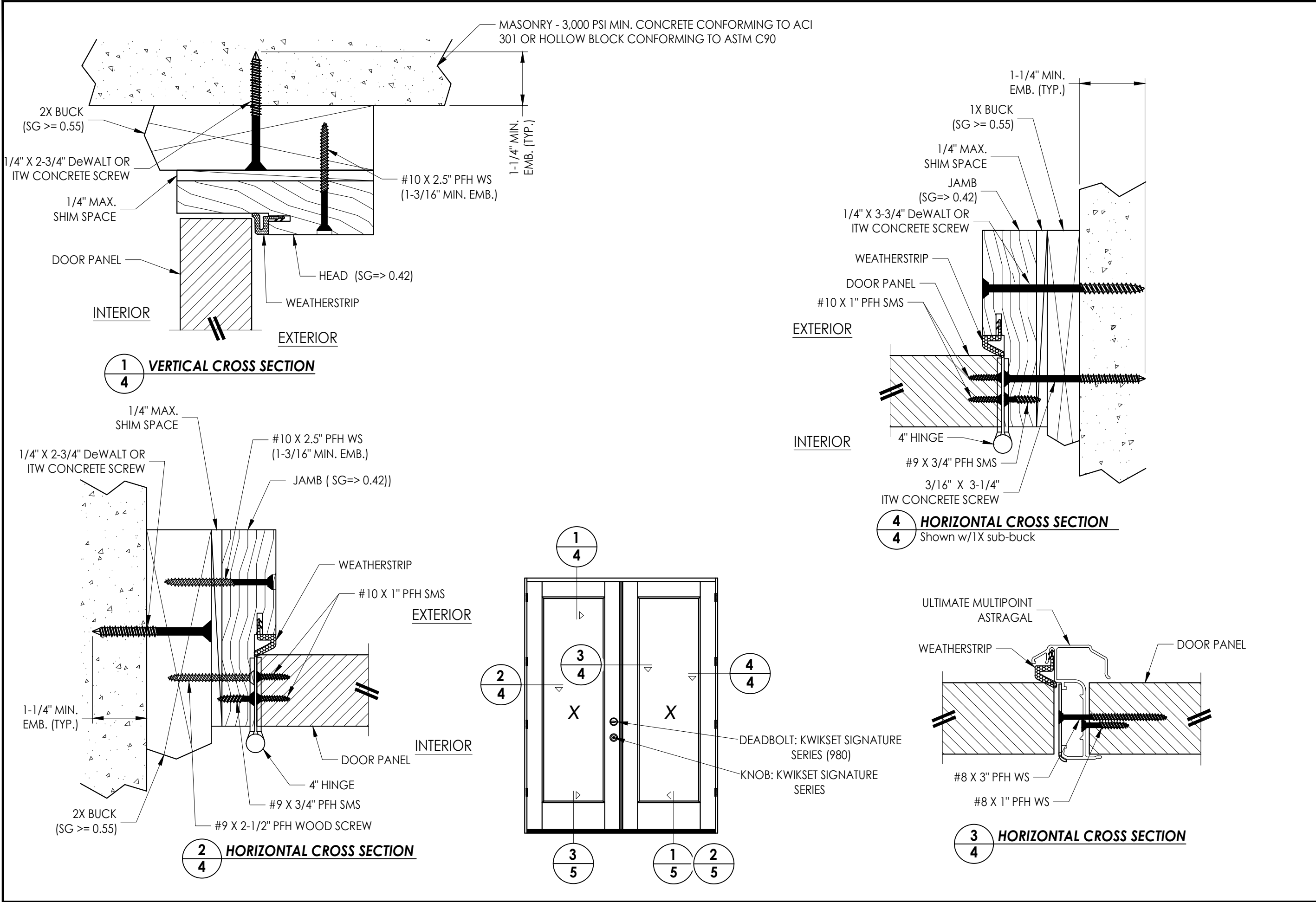
STEEL SPACER

GLAZING TAPE

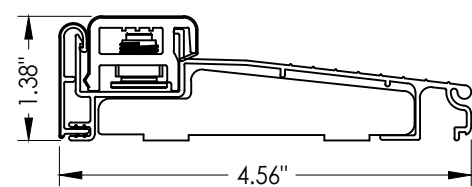
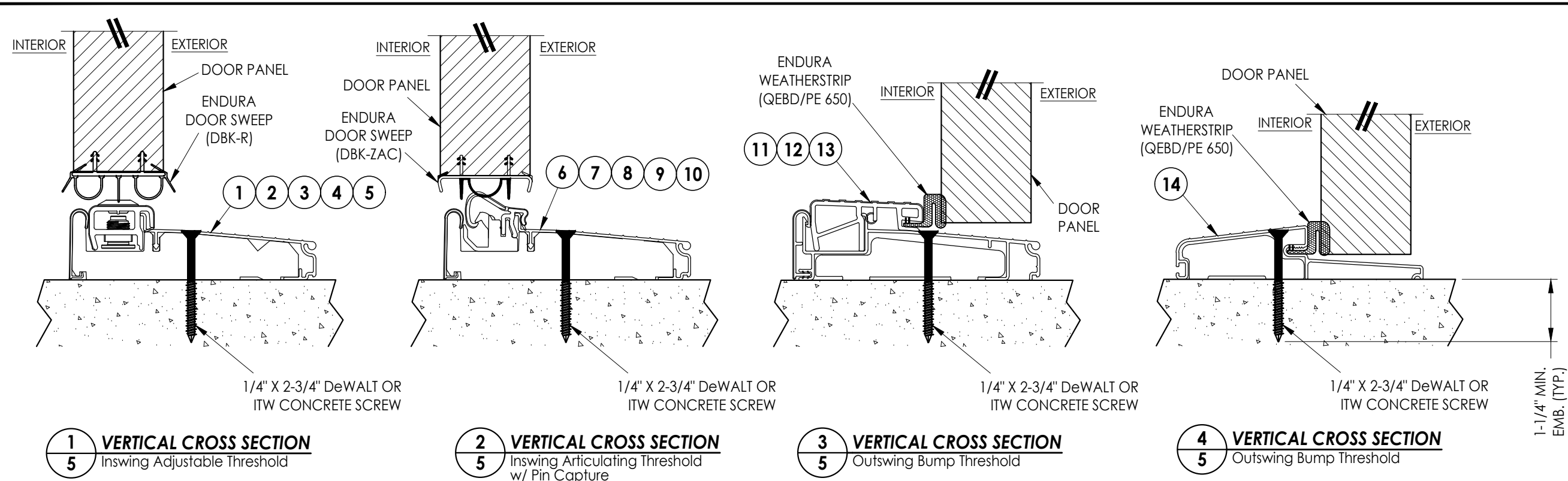
EXTERIOR

LOW TACK SEALANT

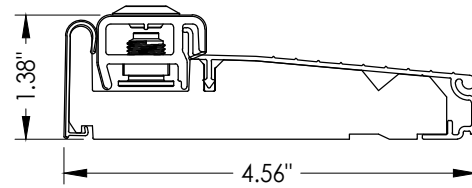
© 2011 R.W. BUILDING CONSULTANTS INC.

[illegible]

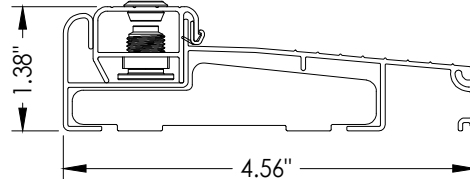
Z:\2023 FBC Drawings\Endura Products\FL-14818 R10\FL-14818.11-18.dwg



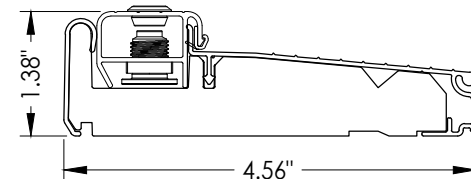
1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



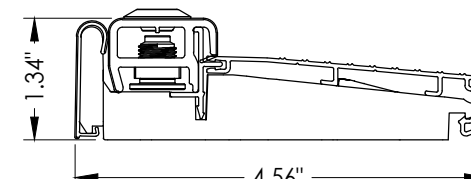
2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565

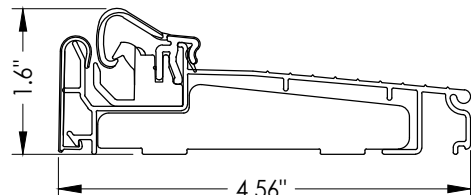


4 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN

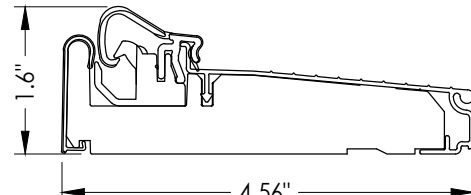


5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS

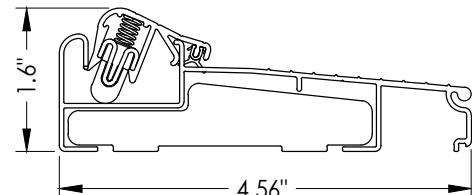
MAX. DESIGN PRESSURE = ± 40 PSF



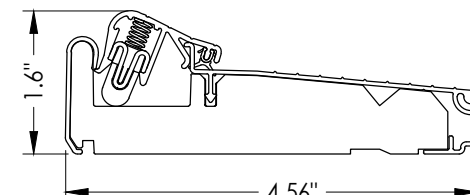
6 INSWING ARTICULATING THRESHOLD
ZACL4565



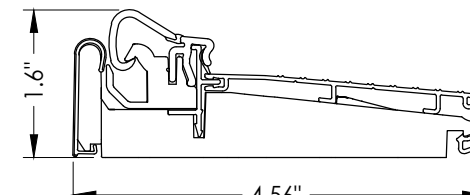
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN



8 INSWING ARTICULATING THRESHOLD
ZACLA4565

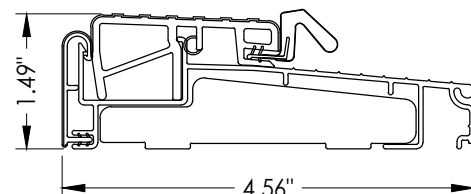


9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN

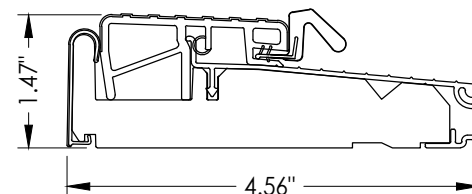


10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

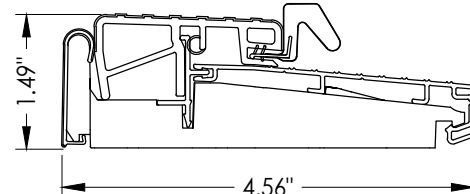
MAX. DESIGN PRESSURE = ± 35 PSF



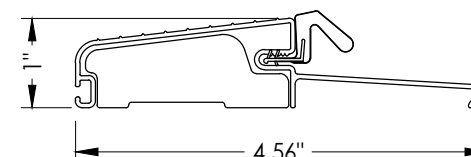
11 OUTSWING THRESHOLD
ZOBL4565



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

NO.	DATE	REVISIONS
8	7/01/26	UPDATE TO 9TH ED. (2026) FBC
7	7/06/23	UPDATE TO 8TH ED. (2023) FBC
6	8/03/20	UPDATE TO 7TH ED. (2020) FBC

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

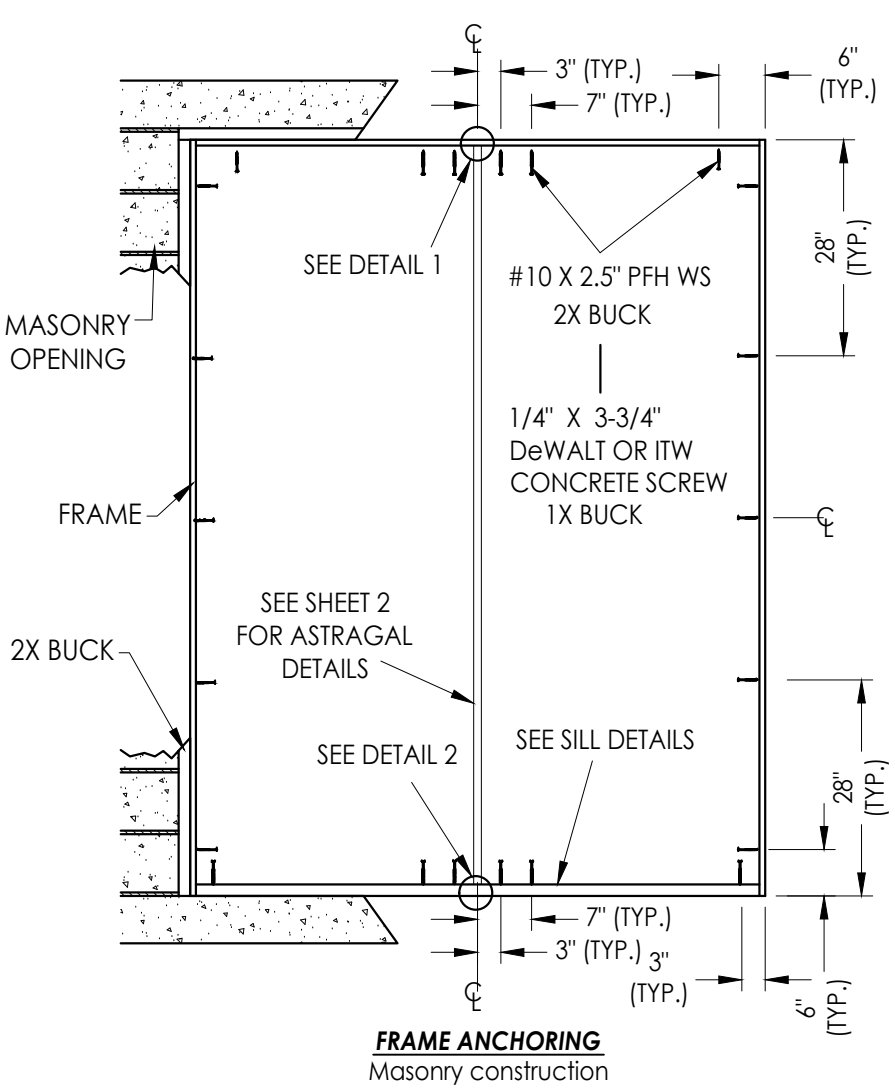
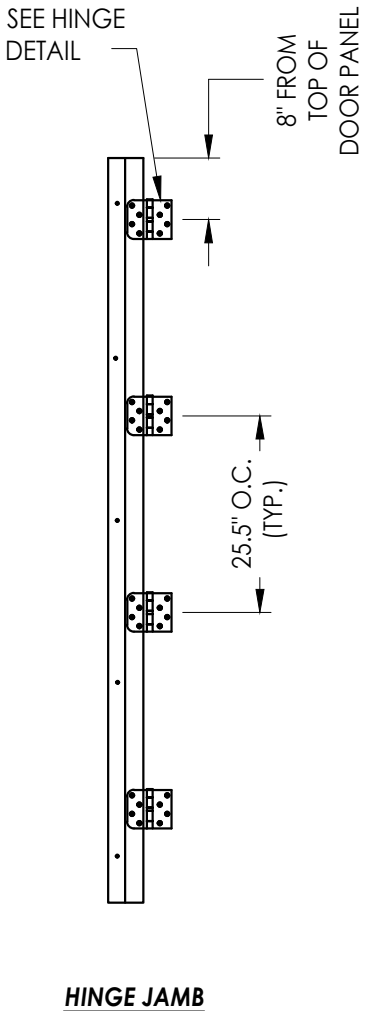
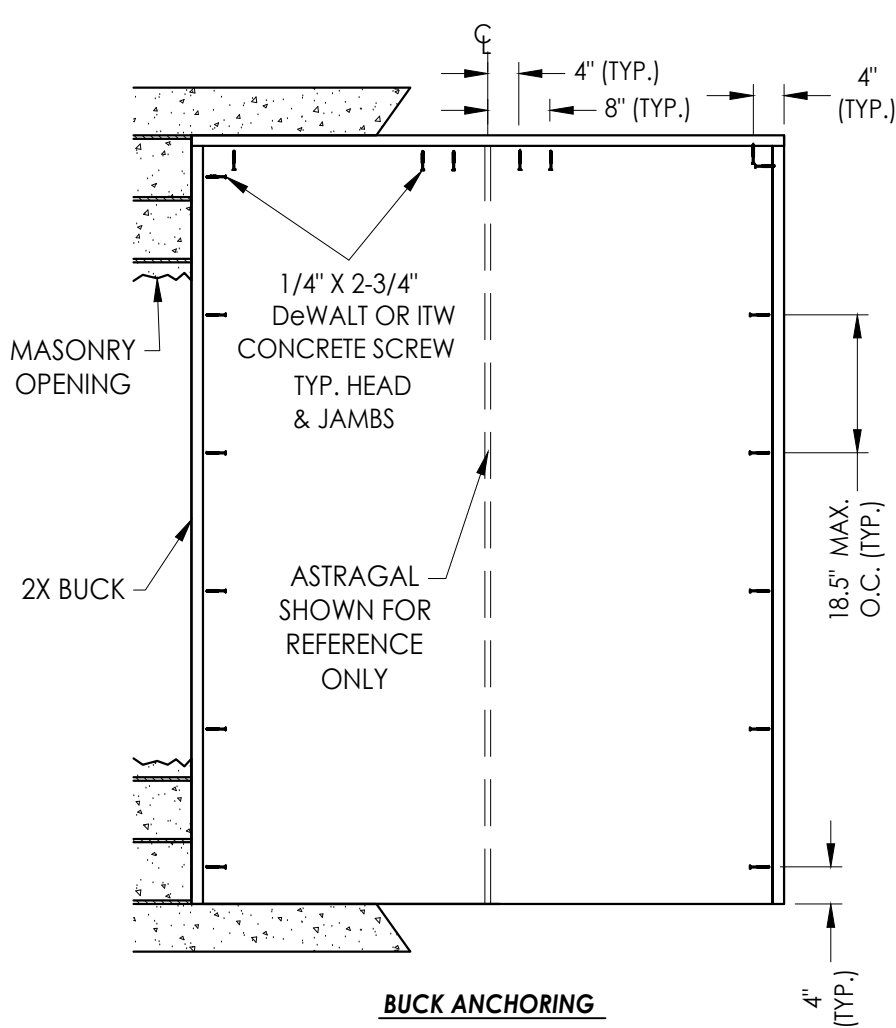
CHK. BY: LFS

DRAWING NO.:

FL-14818.13

SHEET 5 OF 6

Z:\2023 FBC Drawings\Endura Products\FL-14818 R10\FL-14818.11-18.dwg



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.

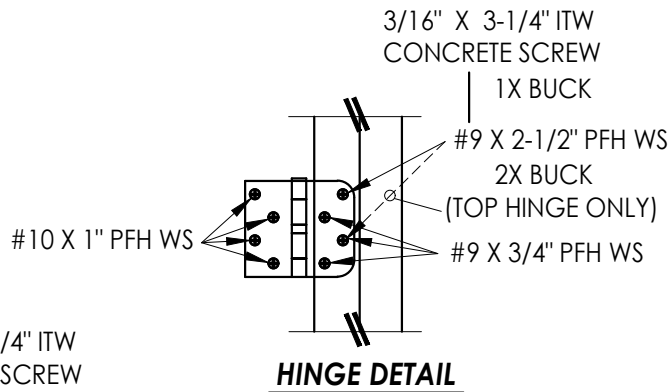
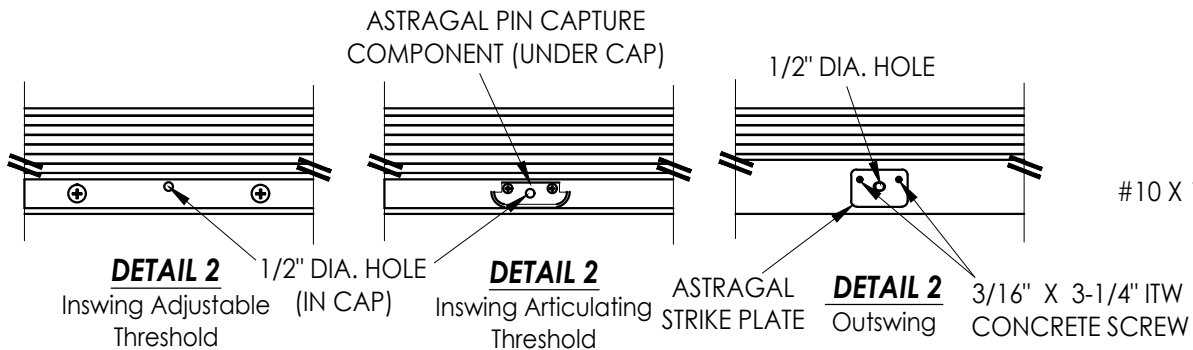
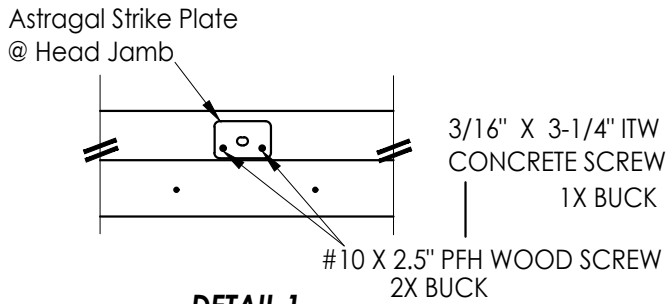
CONCRETE ANCHOR NOTES:

- 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 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

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:
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS
8	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14818.13

SHEET 6 OF 6