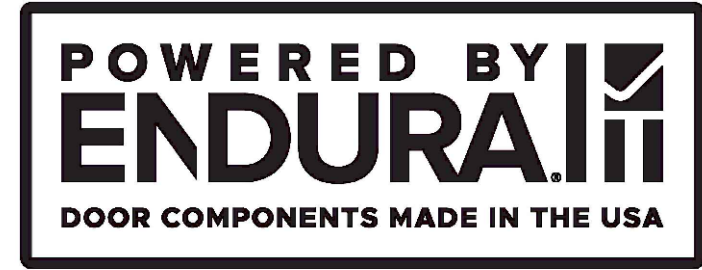


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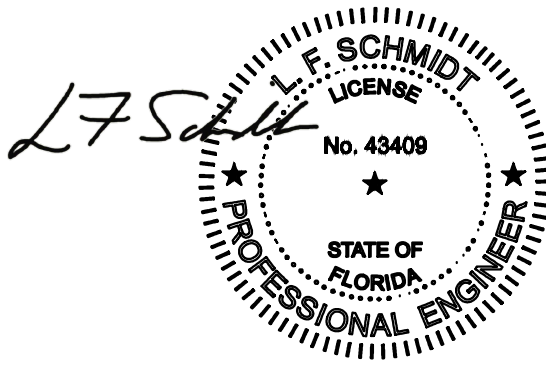
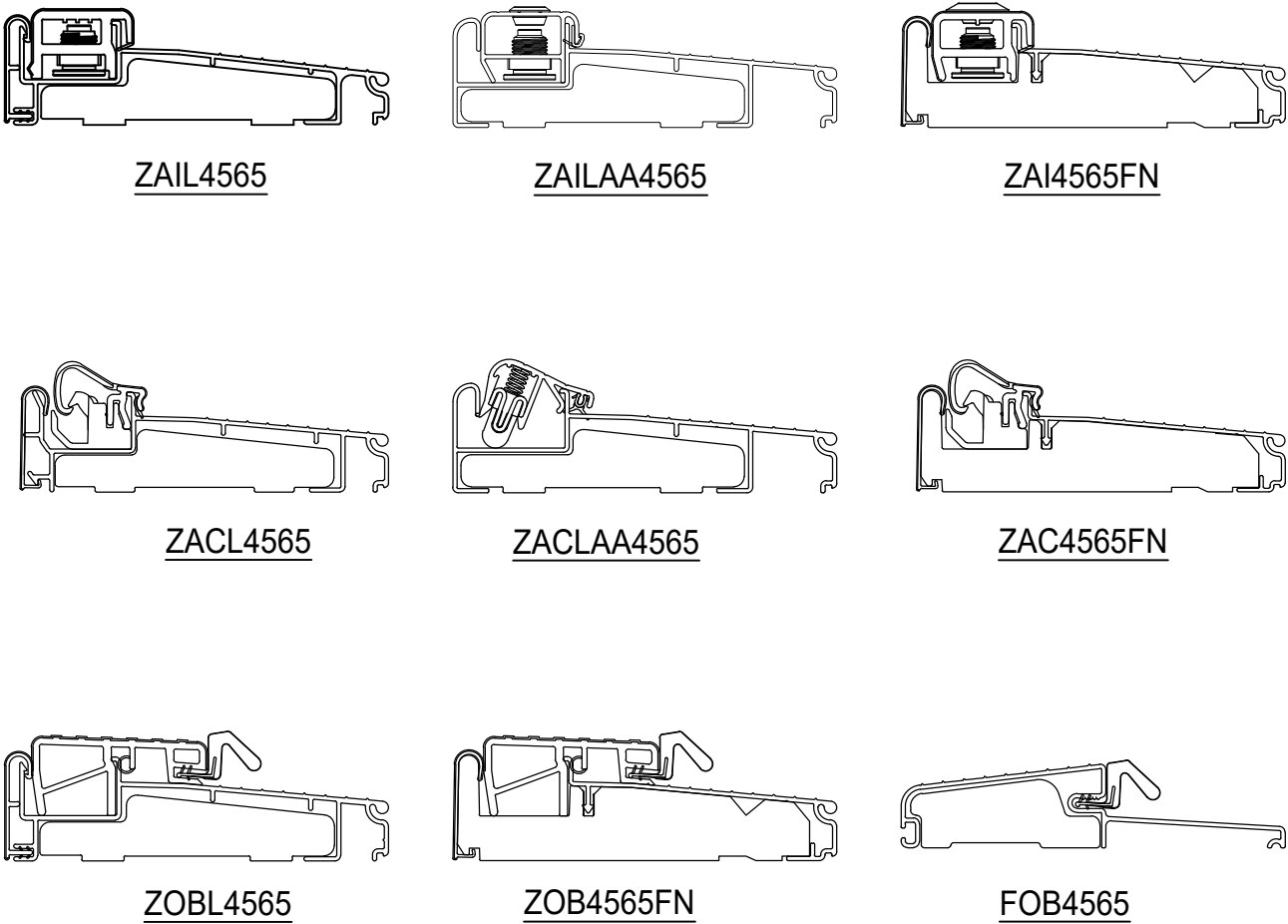
Z SERIES THRESHOLDS

SINGLE DOOR w/ or w/out SIDELITES
INSWING / OUTSWING
"IMPACT - HVHZ"

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 FBC and does not require an impact resistant covering.
- 4. These "IMPACT" door thresholds, as components, are to be used in combination as a substitute for similar components in an impact approved continuous head & sill (complies with Section 1626 of the FBC) door system possessing a current Florida Statewide Product Approval (Including the "HVHZ").
- 5. The design pressure of the assembly shall be the lesser of the design pressure for the component assembly shown in this approval or the design pressure of the system assembly used in conjunction with this approval.
- 6. The maximum frame size of the door assembly shall be lesser of the maximum frame size stated in this approval or the maximum frame size of the system assembly approval used in conjunction with this approval.
- 7. Refer to the separate Florida Product Approval for the swing door used in conjunction with this component approval to determine the ability of the system to meet the water infiltration requirements for the "HVHZ".
- 8. Thresholds have been tested in a door assembly (for air and water) according to the requirements of TAS 202-94 (ASTM E 283 & E 331).
- 9. Outswing configurations (using ZOB thresholds) meet "HVHZ" water infiltration requirements. All other configurations do not meet "HVHZ" water infiltration requirements 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.
- 10. 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 Sections & General Notes
2	Threshold Details & Design Pressures
3	Threshold Anchoring
4	Threshold Sections



Digitally signed by Lyndon F Schmidt
Date: 2026.07.17 11:29:25 -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, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
TYPICAL SECTIONS
& GENERAL NOTES

5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	2/19/19	ADD RDS THRESHOLDS		LFS
1	9/13/18	REV. GENERAL NOTE FOR WATER		LFS
NO.	DATE			BY
REVISIONS				

DATE: 12/12/17

SCALE: N.T.S.

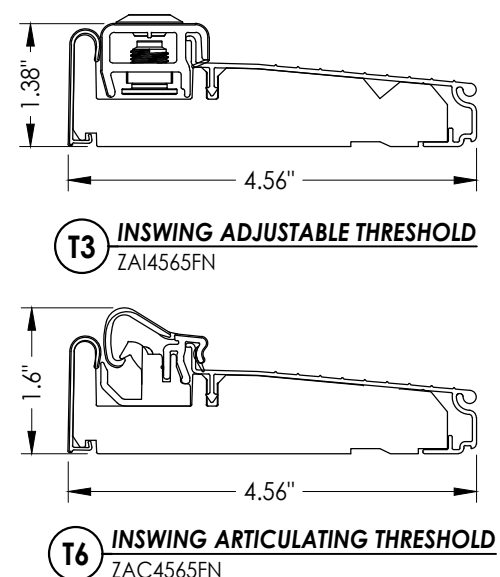
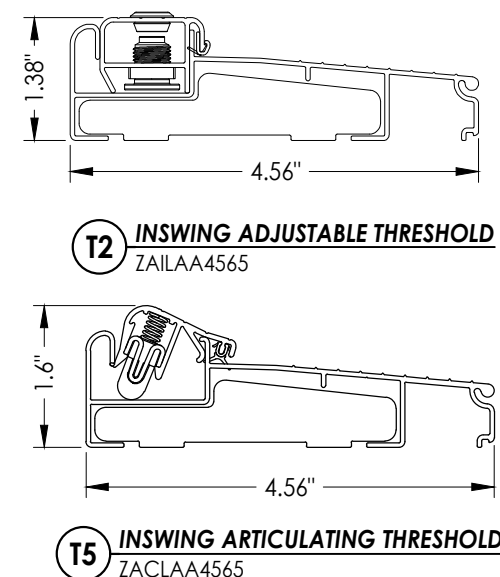
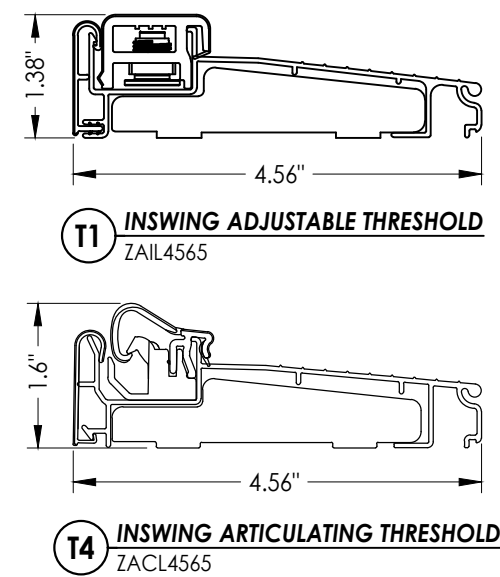
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CHK. BY: LFS

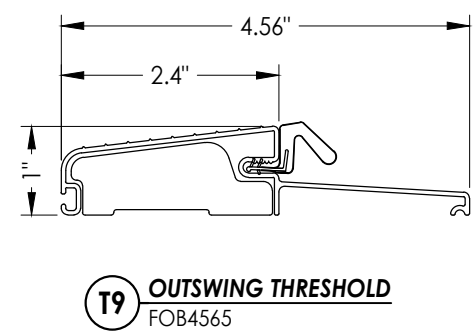
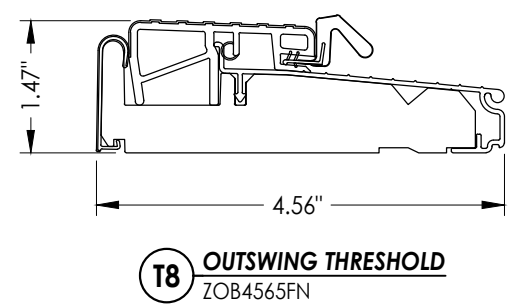
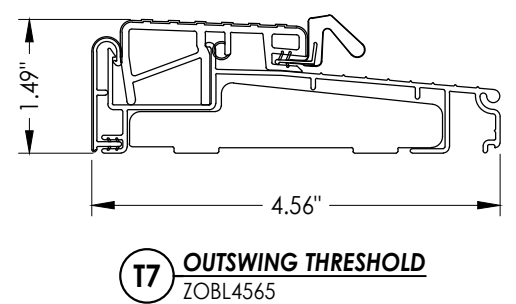
DRAWING NO.: FL-25610.1

SHEET 1 OF 4

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INSWING THRESHOLDS			
CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
		POSITIVE	NEGATIVE
X	37.75" X 98"	+65.0	-65.0
OX / XO	76.25" X 98"	+60.0	-60.0
OXO	115.75" X 98"	+60.0	-60.0



OUTSWING THRESHOLDS			
CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
		POSITIVE	NEGATIVE
X	37.75" X 98"	+65.0	-75.0
OX / XO	76.25" X 98"	+60.0	-60.0
OXO	115.75" X 98"	+60.0	-60.0

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT: ENDURA

PART OR ASSEMBLY:
THRESHOLD DETAILS
& DESIGN PRESSURES

DATE: 12/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-25610.1

SHEET 2 OF 4

5 7/02/26 UPDATE TO 9TH ED. (2026) FBC LFS

4 7/06/23 UPDATE TO 8TH ED. (2023) FBC LFS

3 8/03/20 UPDATE TO 7TH ED. (2020) FBC LFS

2 2/19/19 ADD RDS THRESHOLDS LFS

1 9/13/18 REV. GENERAL NOTE FOR WATER LFS

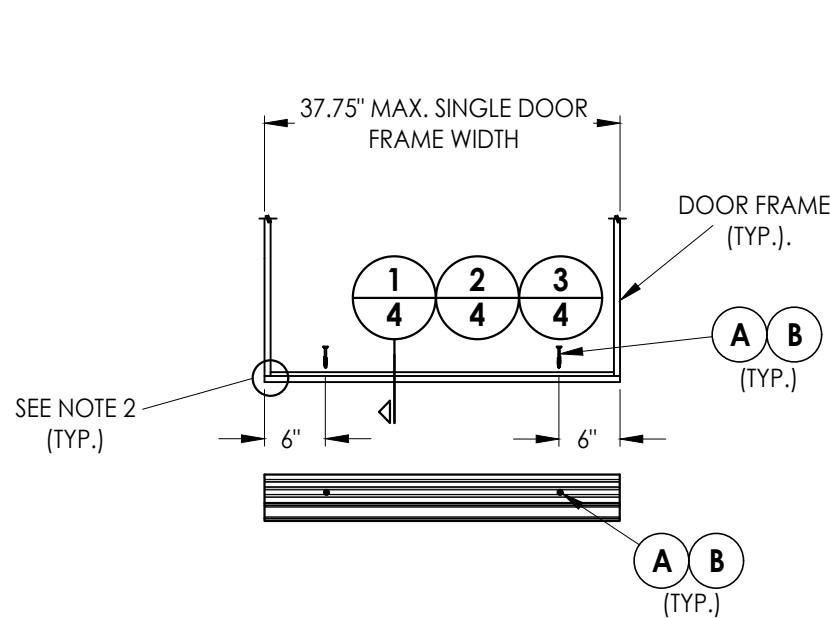
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REVISIONS

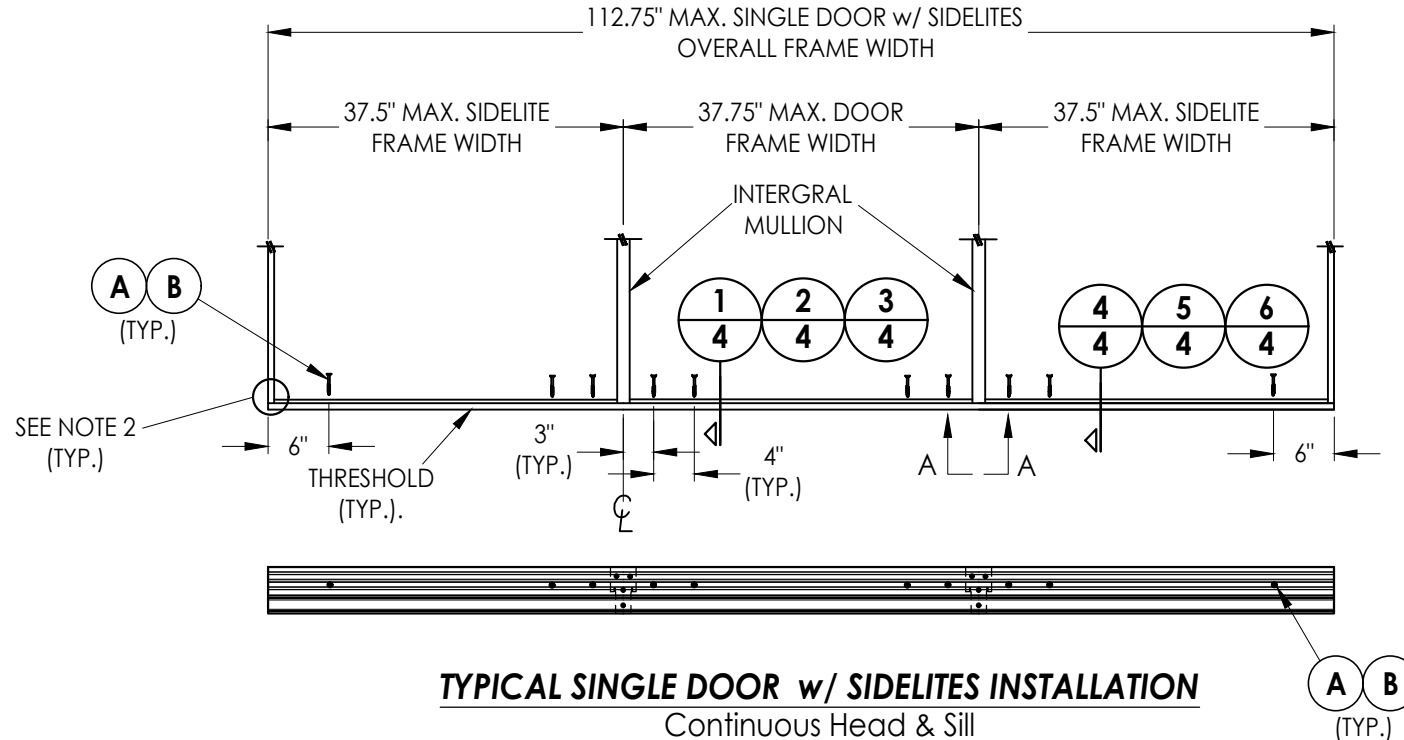
RW

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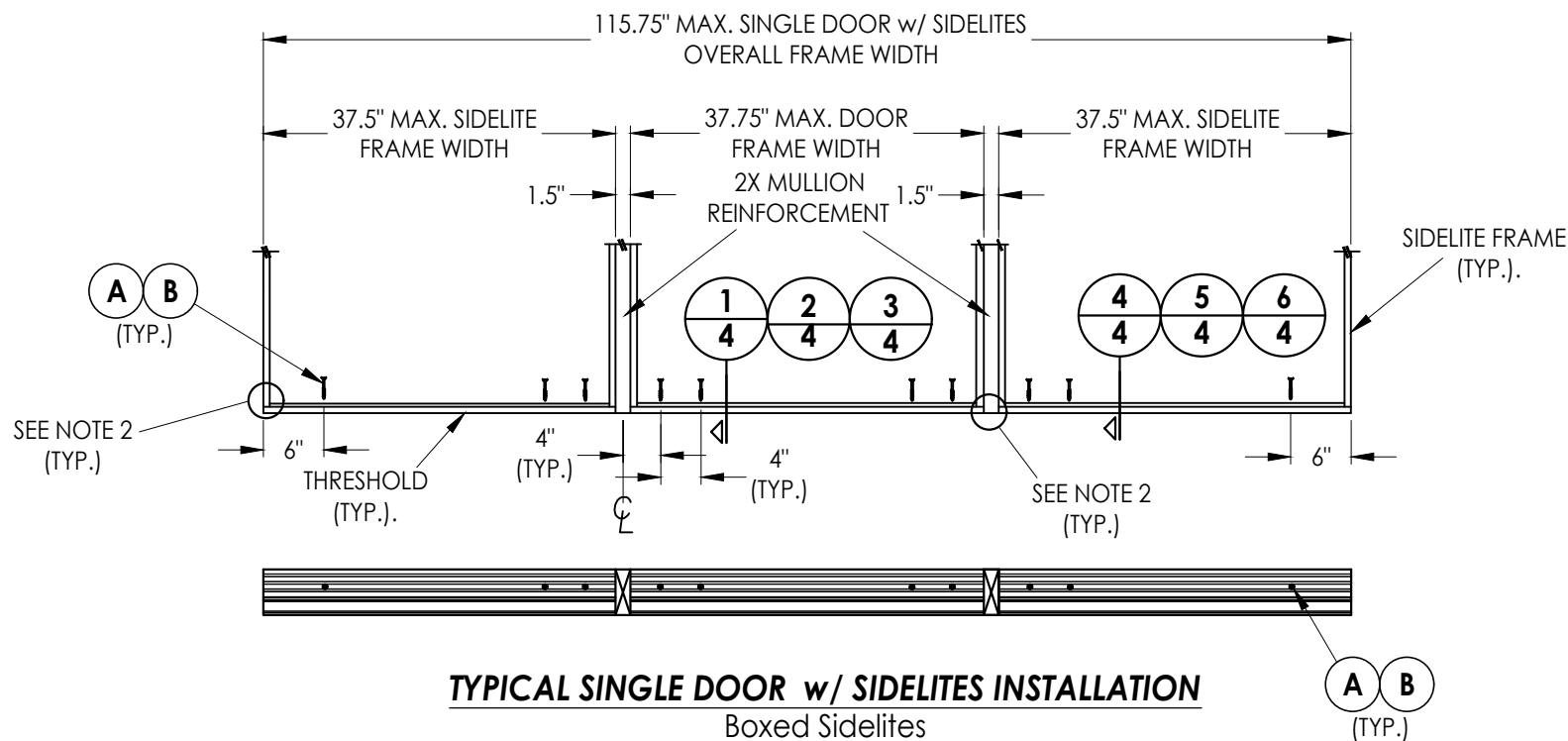
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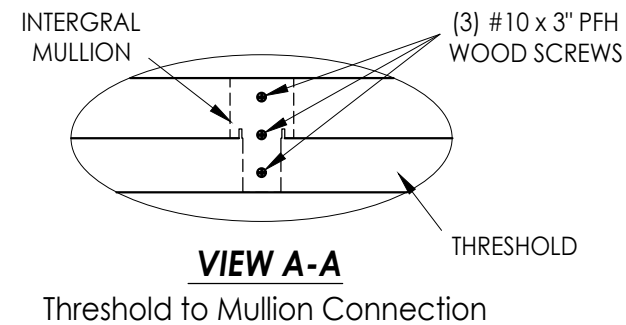
TYPICAL SINGLE DOOR INSTALLATION



TYPICAL SINGLE DOOR w/ SIDELITES INSTALLATION
Continuous Head & Sill



TYPICAL SINGLE DOOR w/ SIDELITES INSTALLATION
Boxed Sidelites



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
(A) DeWALT ULTRACON®	1/4"	1-1/2"	1"	4"
(B) ITW TAPCON®	1/4"	1-1/2"	2"	4"

- Concrete (min. 3,000 psi - conforming to ACI 301).

NOTES:

- INSWING THRESHOLD INSTALLATION SHOWN (OUTSWING THRESHOLD INSTALLATION SIMILAR).
- REFER TO CORRESPONDING DOOR SYSTEM PRODUCT APPROVAL FOR ANY REQUIRED CONNECTIONS AT FRAME CORNERS OR AT 2X MULLION REINFORCMENT ENDS.

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
ENDURA

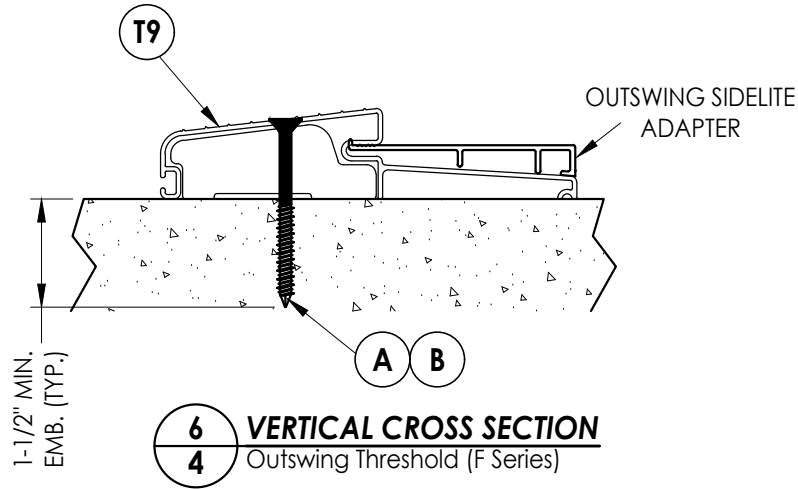
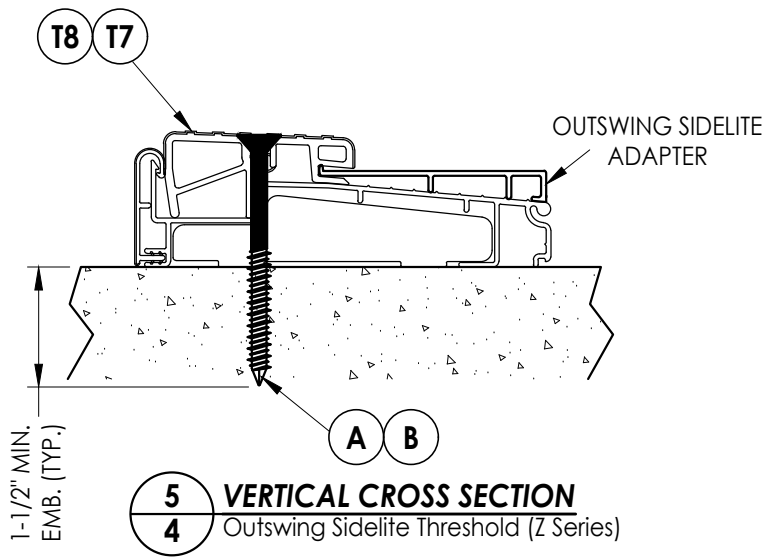
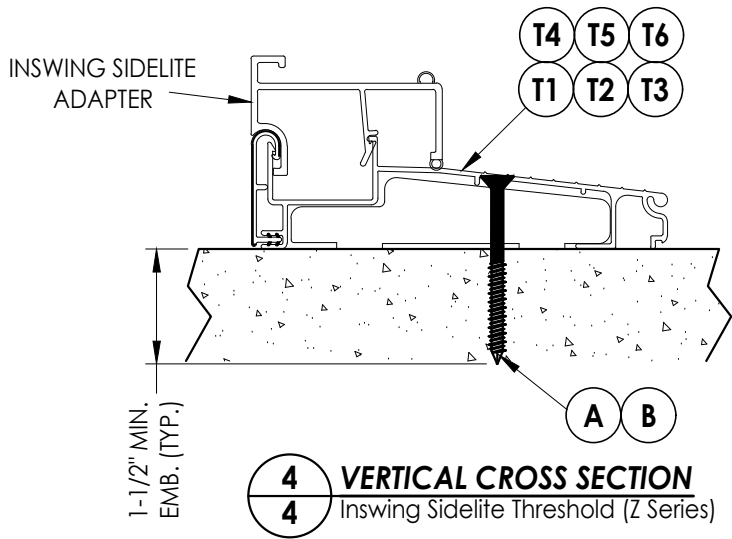
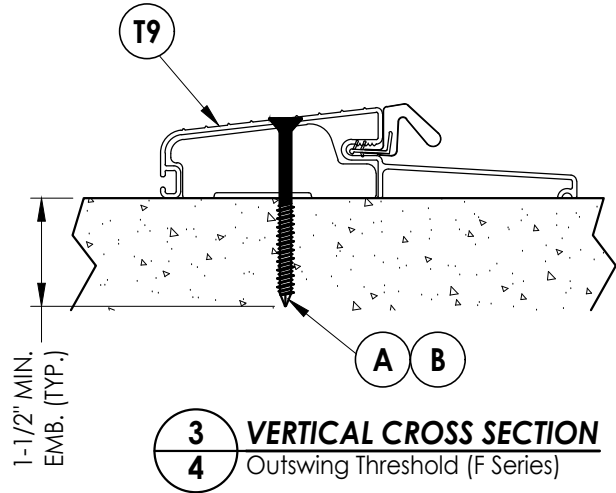
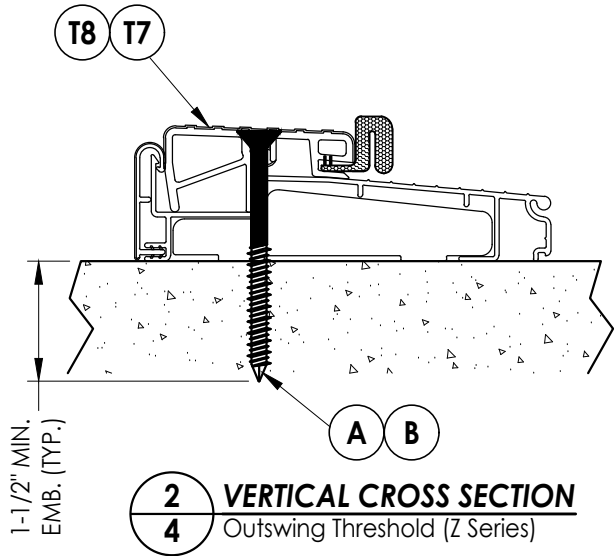
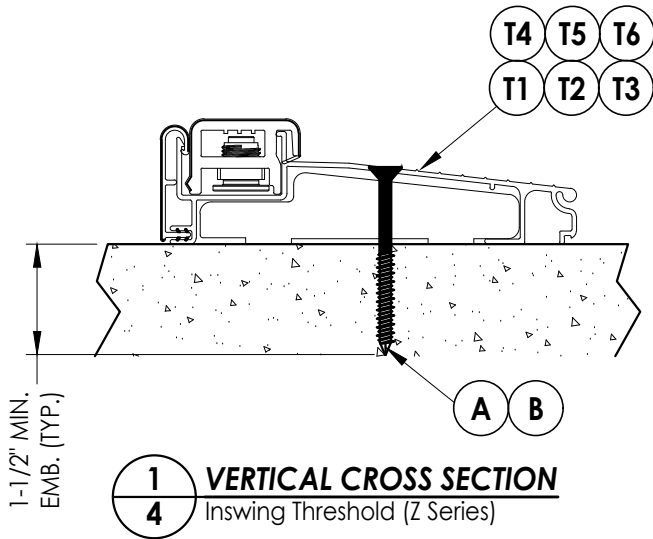
RW BUILDING CONSULTANTS, INC.

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
THRESHOLD ANCHORING

NO.	DATE	REVISIONS			
		BY	LFS	FBC	DATE
5	7/02/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
4	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	8/03/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
2	2/19/19	ADD RDS THRESHOLDS			LFS
1	9/13/18	REV. GENERAL NOTE FOR WATER			LFS
DATE: 12/12/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-25610.1					
SHEET 3 OF 4					

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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: VERTICAL CROSS SECTIONS			
5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
3	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
2	2/19/19	ADD RDS THRESHOLDS		LFS			
1	9/13/18	REV. GENERAL NOTE FOR WATER		LFS			
NO.	DATE			BY			
REVISIONS							
DATE: 12/12/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-25610.1							
SHEET 4 OF 4							