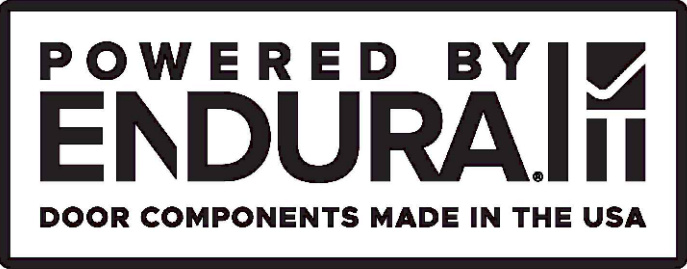


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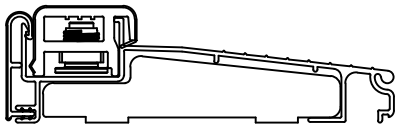
Z SERIES THRESHOLDS

DOUBLE DOOR
IN swing / OUT swing
"IMPACT - HVHZ"

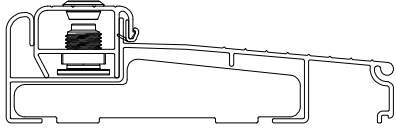
GENERAL NOTES

- 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.

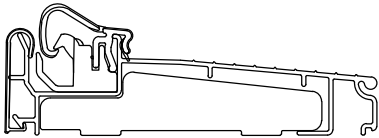
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Sections & General Notes
2	Threshold Details & Design Pressures
3	Threshold Anchoring
4	Threshold Sections



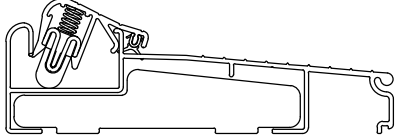
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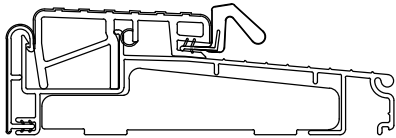
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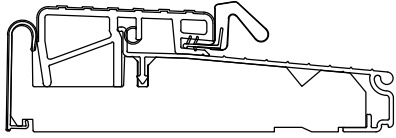
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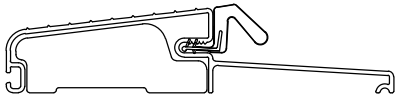
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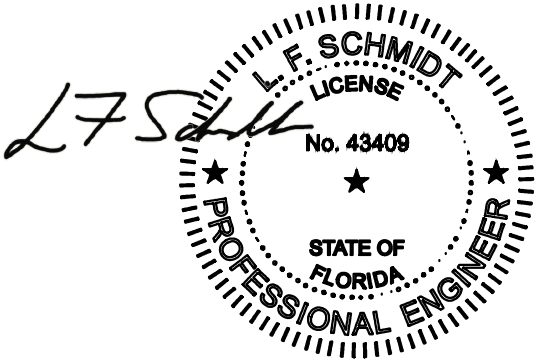
ZOBL4565



ZOB4565FN



FOB4565



Digitally signed by Lyndon F Schmidt
Date: 2026.07.17 11:29:09 -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 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.

DWG. BY: JK

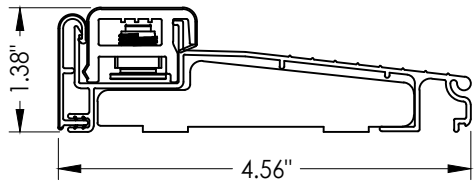
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DRAWING NO.: FL-25610.2

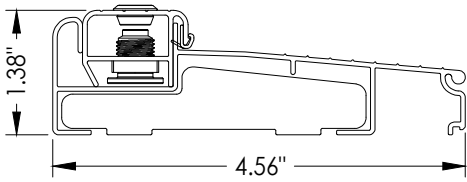
SHEET 1 OF 4

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

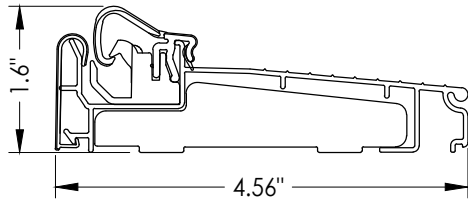
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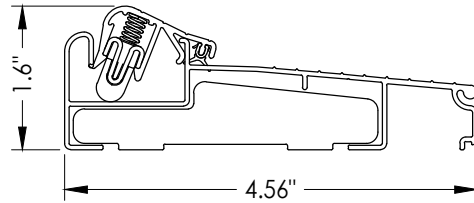
T1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



T2 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



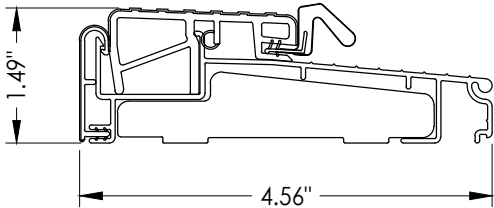
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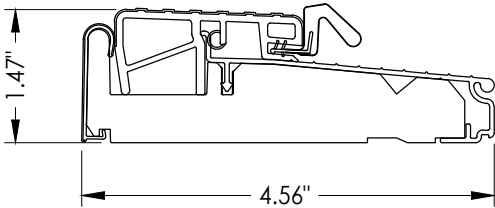
T4 INSWING ARTICULATING THRESHOLD
ZACLAA4565

DESIGN PRESSURE RATING FOR THE
ZACLAA4565 THRESHOLD IS LIMITED TO
± 45 PSF FOR FRAME HEIGHTS > 6'-8"

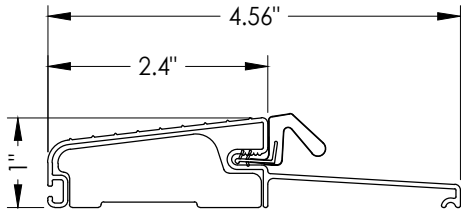
INSWING THRESHOLDS			
CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
		POSITIVE	NEGATIVE
XX	74" X 98"	+50.0	-50.0



T5 OUTSWING THRESHOLD
ZOBL4565



T6 OUTSWING THRESHOLD
ZOB4565FN



T7 OUTSWING THRESHOLD
FOB4565

OUTSWING THRESHOLDS			
CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
		POSITIVE	NEGATIVE
XX	74" X 98"	+50.0	-50.0

NO.	DATE	REVISIONS			
		UPDATE TO	9TH ED. (2026)	FBC	LFS
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1	9/13/18				

DATE: 12/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-25610.2

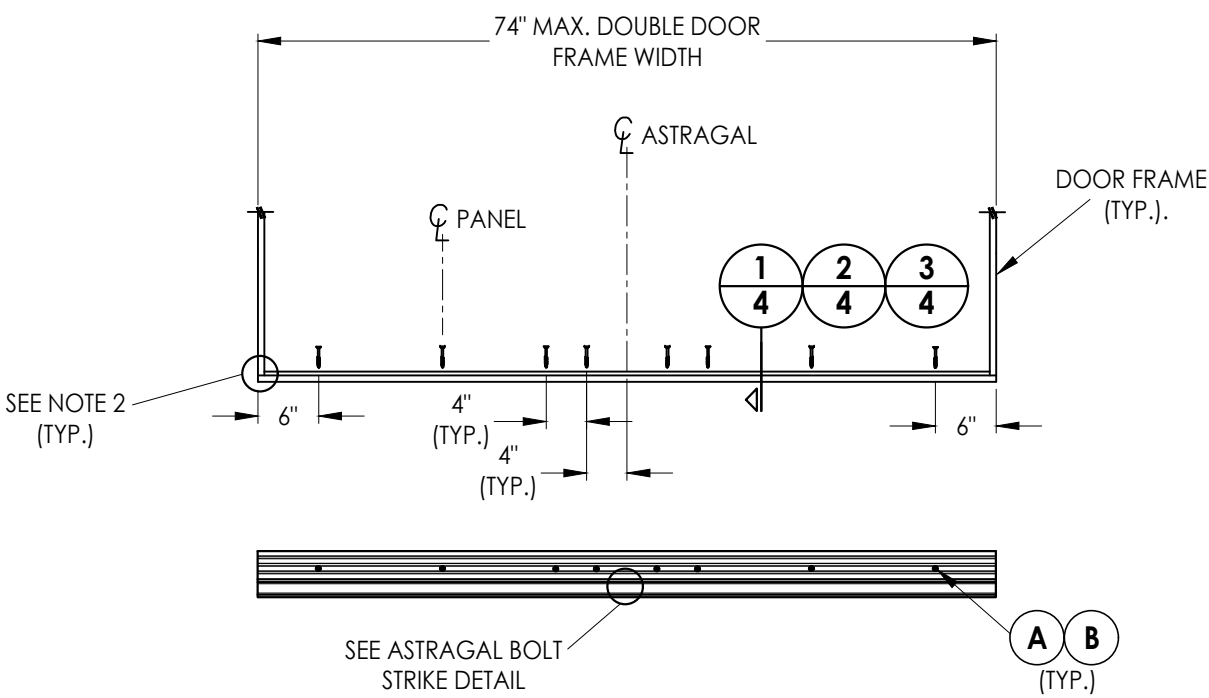
SHEET 2 OF 4

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P.E. No. 43409

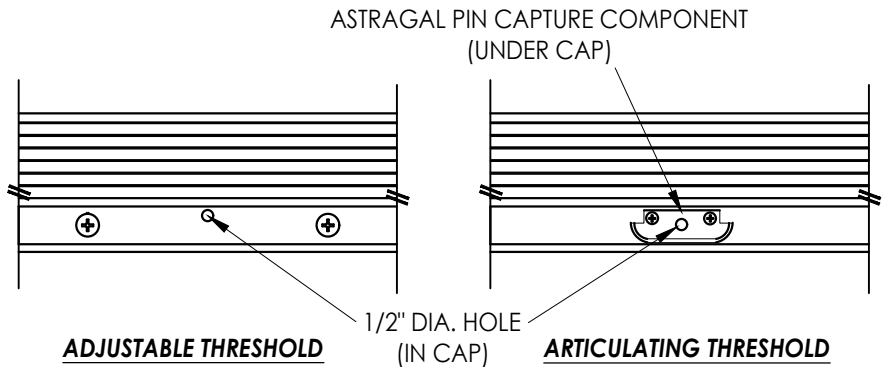
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PRODUCT: ENDURA
PART OR ASSEMBLY:
THRESHOLD DETAILS
& DESIGN PRESSURES

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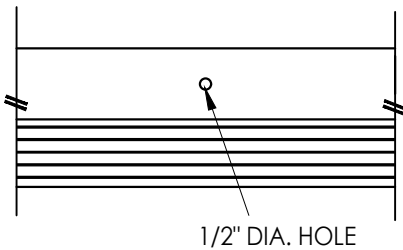


TYPICAL DOUBLE DOOR INSTALLATION



ASTRAGAL BOLT STRIKE DETAIL

Inswing Thresholds



ASTRAGAL BOLT STRIKE DETAIL

Outswing Thresholds

- NOTES:
1. INSWING THRESHOLD INSTALLATION SHOWN (OUTSWING THRESHOLD INSTALLATION SIMILAR).
 2. REFER TO CORRESPONDING DOOR SYSTEM PRODUCT APPROVAL FOR ANY REQUIRED CONNECTIONS AT FRAME CORNERS.

CORROSION RESISTANCE - SALTWATER ENVIRONMENT

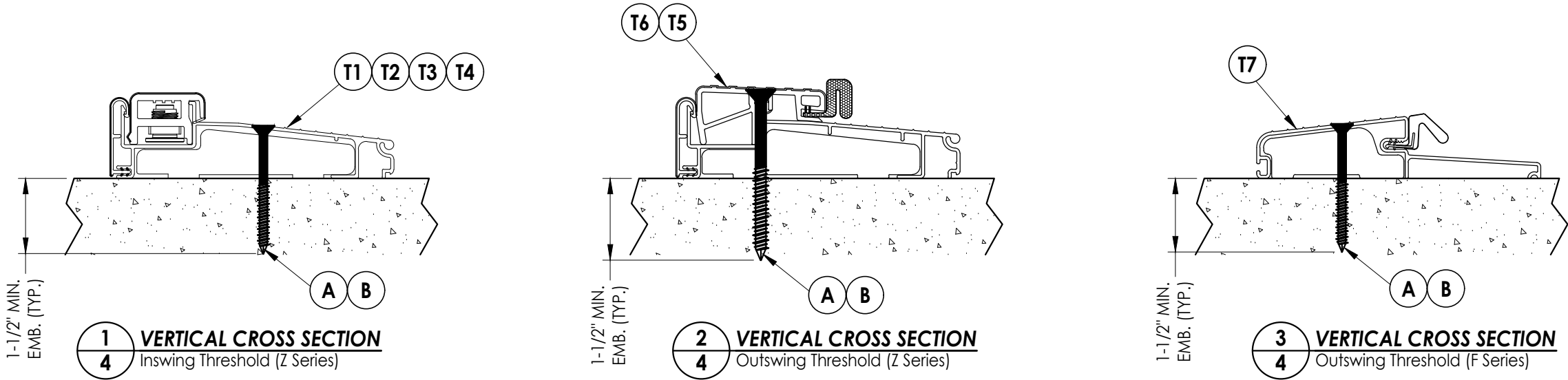
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

- CONCRETE ANCHOR NOTES:**
1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
 2. 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.
 3. 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"

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

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PRODUCT: ENDURA				PART OR ASSEMBLY: THRESHOLD ANCHORING			
	5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS		
	4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
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	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-25610.2							
SHEET 3 OF 4							



DATE: 12/12/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-25610.2
SHEET 4 OF 4

NO.	DATE	REVISIONS
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
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1	9/13/18	REV. GENERAL NOTE FOR WATER LFS

PRODUCT:	ENDURA
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

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