

Ultimate Hurricane Astragal
INSWING / OUTSWING
"NON-IMPACT"

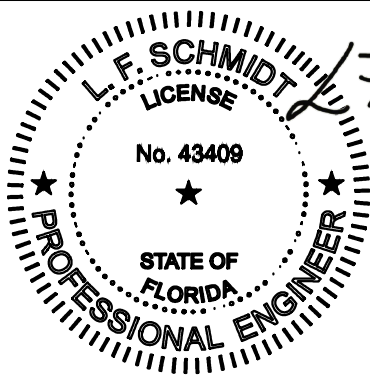
GENERAL NOTES

- 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
5	Threshold details
6	Buck and frame anchoring



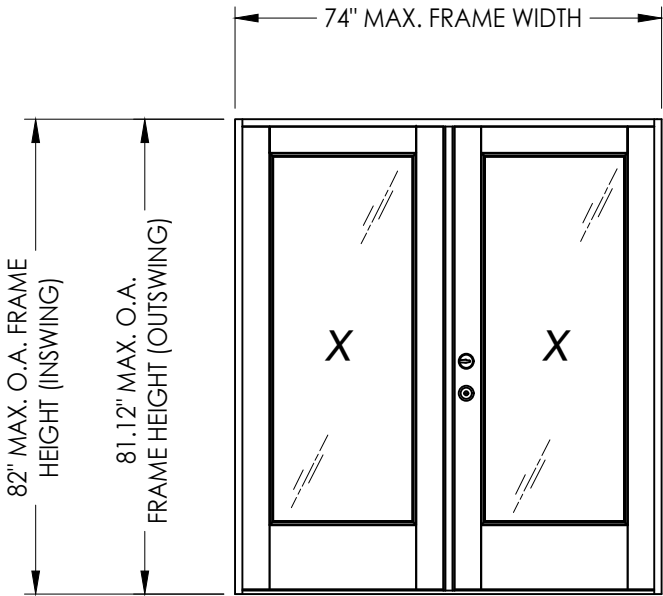
Ultimate Hurricane Astragal



Digitally signed by Lyndon F Schmidt
Date: 2026.07.18 10:57:45 -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 HURRICANE ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE Insert Glazed (FIBERGLASS)	INSWING	74" X 82"	+50.0	-50.0
	OUTSWING	74" X 81.12"	+45.0	-45.0

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

PRODUCT: ENDURA

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

8	7/03/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
6	8/12/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
NO.	DATE			BY

REVISIONS

DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16634.5

SHEET 1 OF 6

Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

TOP

1" 12" 28.9" 13" 0.5"

35.2" 44" 50.4"

ANCHOR SCREW LOCATIONS

BOTTOM

5.5" 35.5"

HARDWARE LOCATIONS

1.75"

2.65"

0.063"

ASTRAGAL SECTION

0.5"

1.63"

BOLT RETAINER
(GF NYLON)

9.5"

0.32"

SLIDE BOLT ROD
(STEEL)

BOLT RETAINERS

SLIDE BOLT ROD

ALUMINUM ASTRAGAL

ALUMINUM ASTRAGAL ASSEMBLY

#8 X 3/4" PFH WS

#8 X 3" PFH WS

DEADBOLT STRIKE PLATE

LATCH STRIKE PLATE

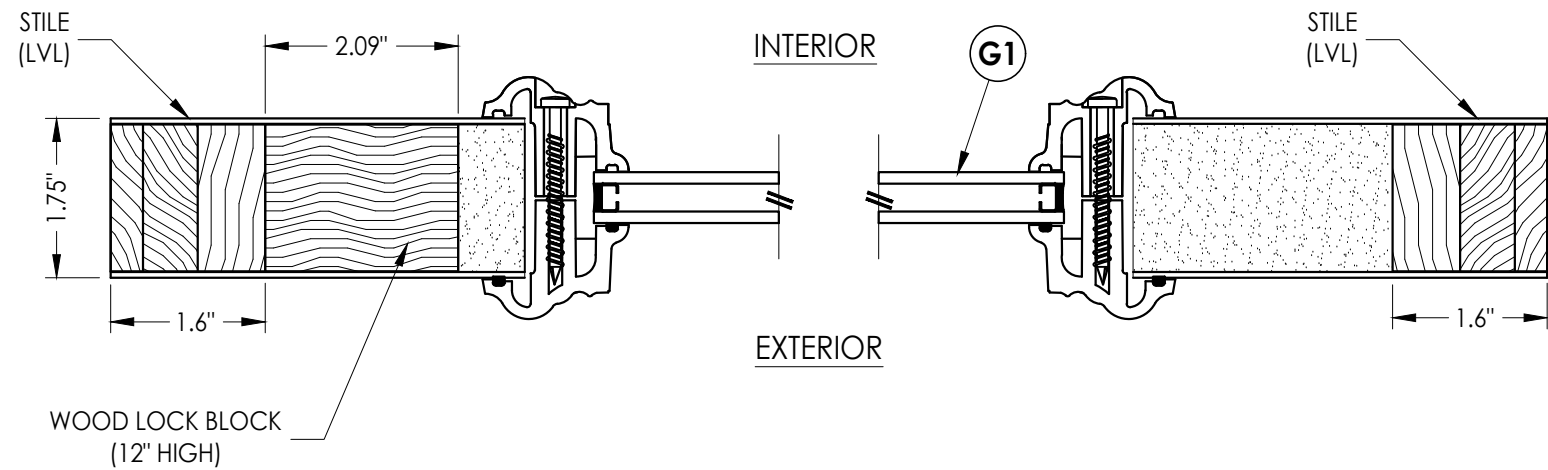
LATCH & DEADBOLT DETAIL

[illegible]

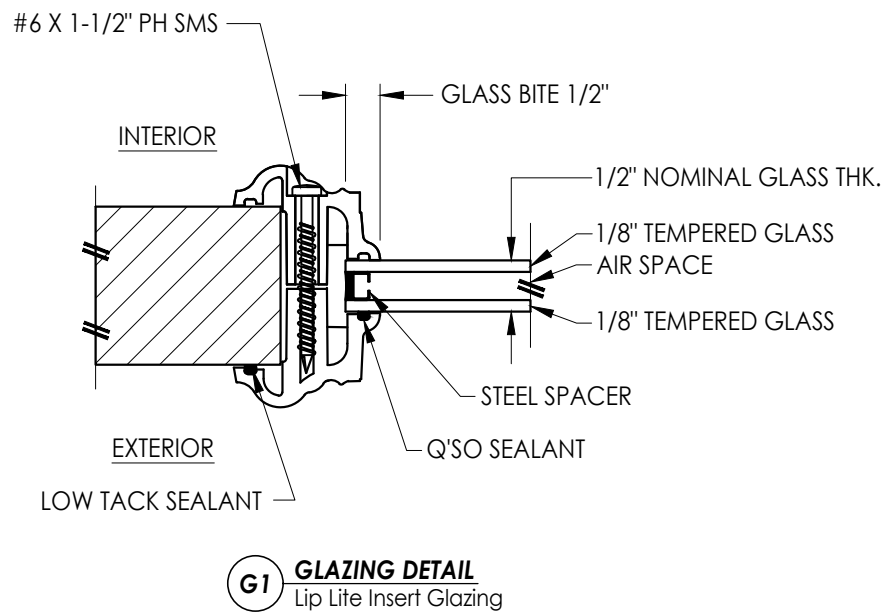
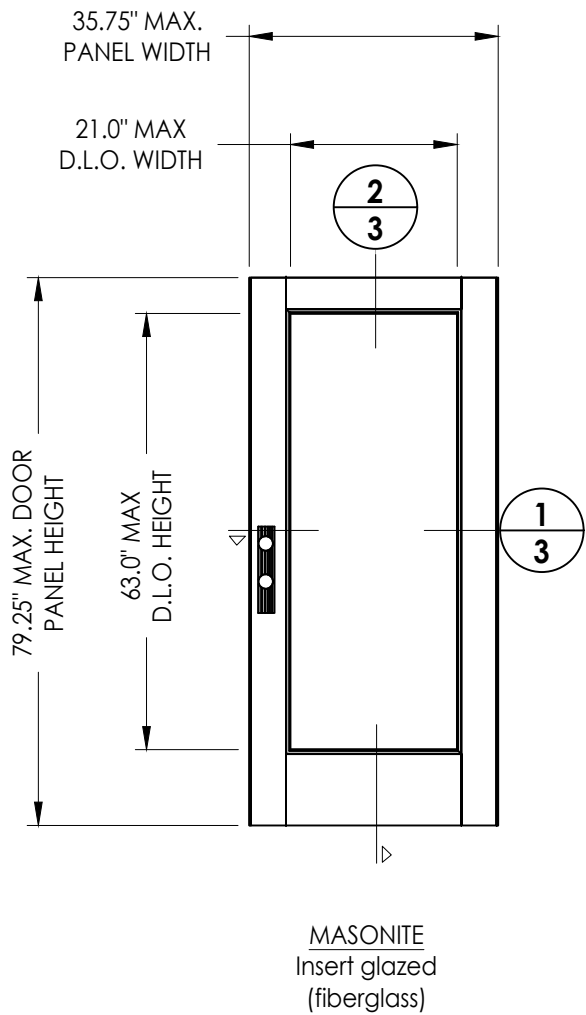
Documents Prepared By:
Lyndon F. Schmidt
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RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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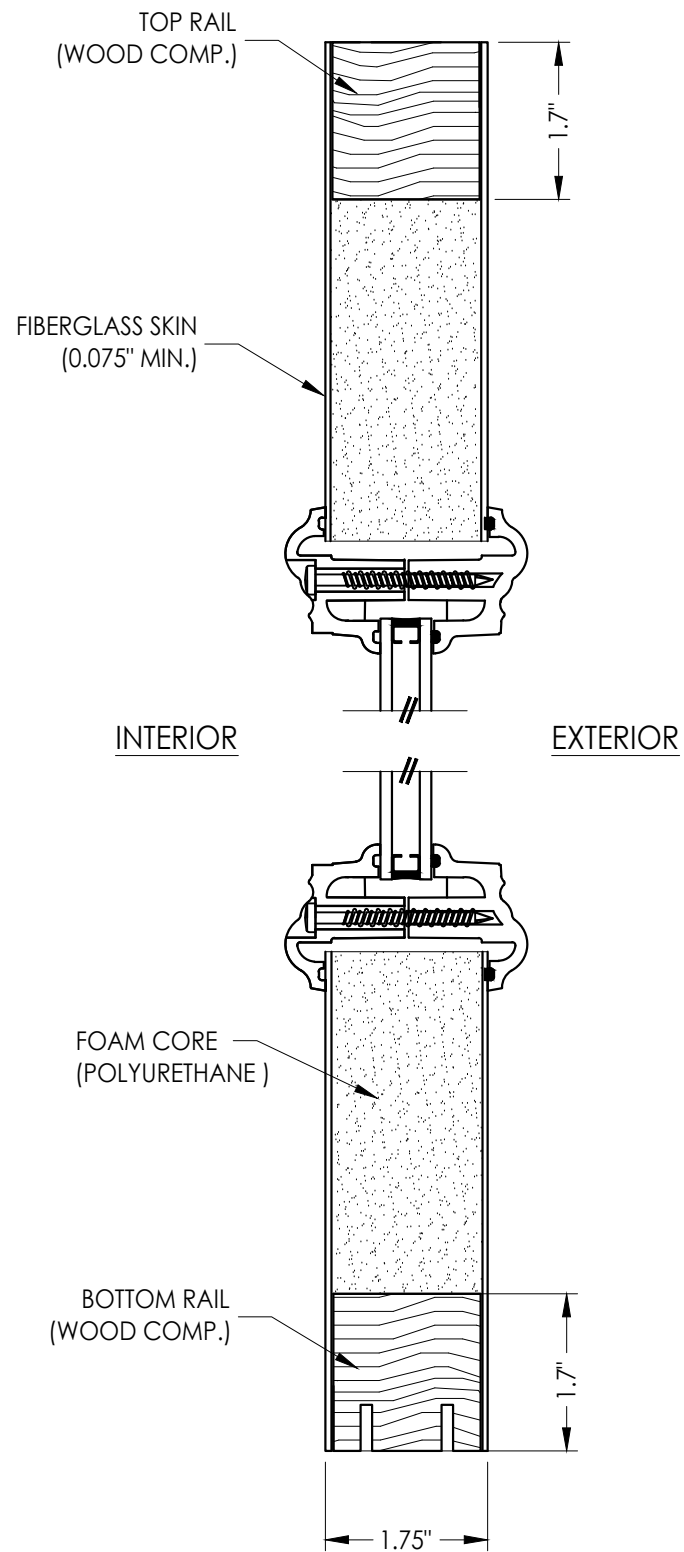
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1
3 HORIZONTAL CROSS SECTION



G1 GLAZING DETAIL
Lip Lite Insert Glazing



2
3 VERTICAL CROSS SECTION

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FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
DOOR PANEL DETAILS
& GLAZING DETAIL

NO.	DATE	REVISIONS			
		BY	DATE	DESCRIPTION	DATE
8	7/03/26	LFS		UPDATE TO 9TH ED. (2026) FBC	
7	7/07/23	LFS		UPDATE TO 8TH ED. (2023) FBC	
6	8/12/20	LFS		UPDATE TO 7TH ED. (2020) FBC	

DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

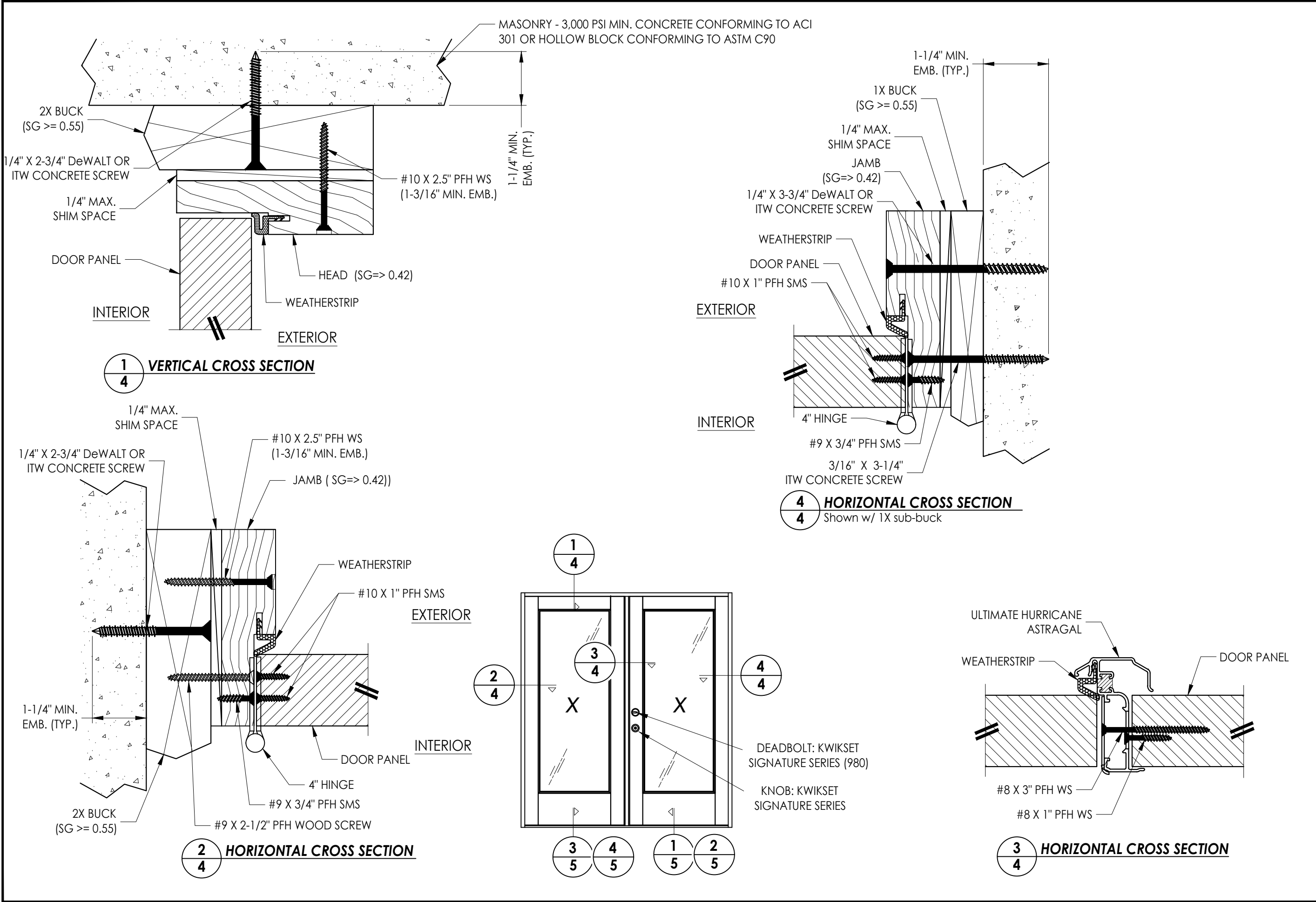
CHK. BY: LFS

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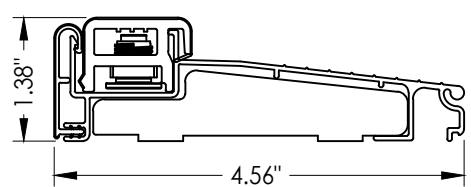
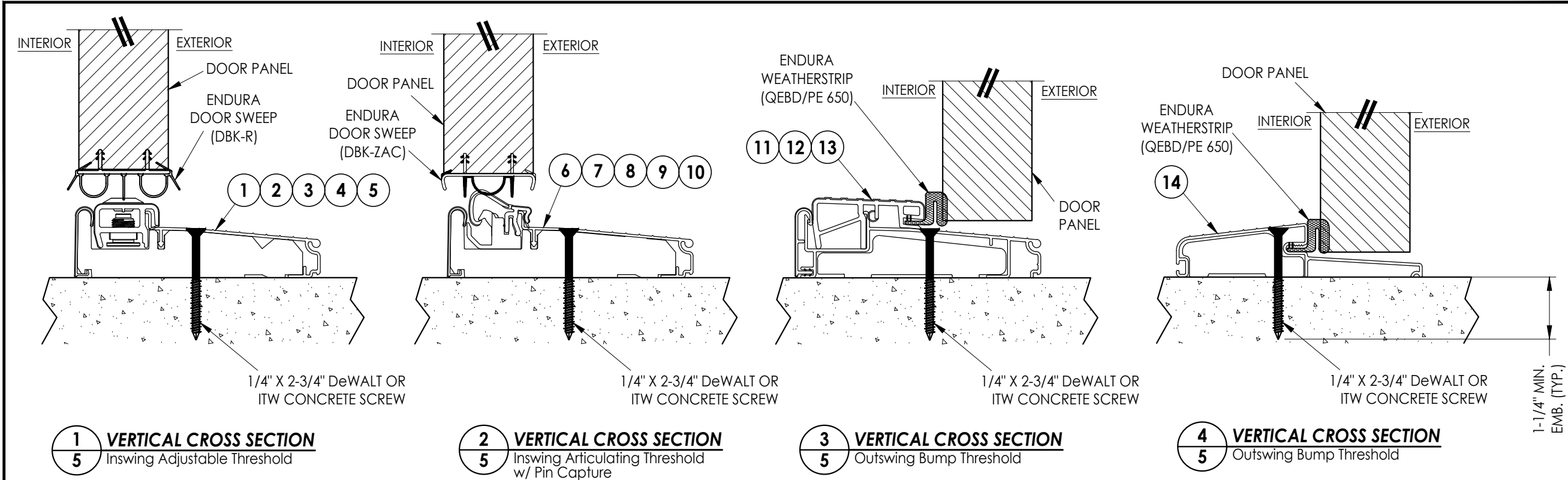
FL-16634.5

SHEET 3 OF 6

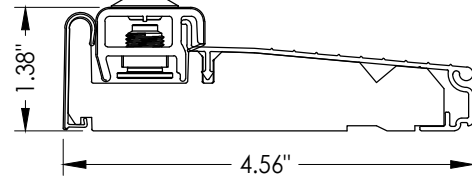
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Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: ENDURA	PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS	REVISIONS	
		NO.	DATE
		8	7/03/26
		7	7/07/23
		6	8/12/20
		5	7/07/23
		4	7/03/26
		3	7/03/26
		2	7/03/26
		1	7/03/26
DATE: 10/24/13		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-16634.5		SHEET 4 OF 6	

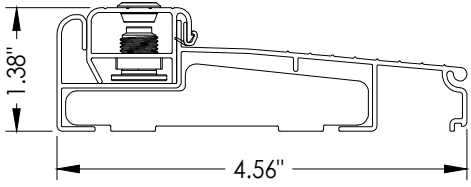


1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565

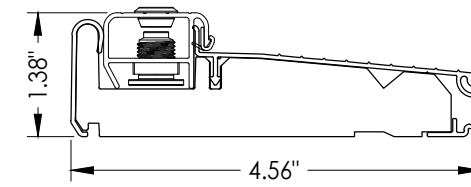


2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN

MAX. DESIGN PRESSURE = ± 45 PSF

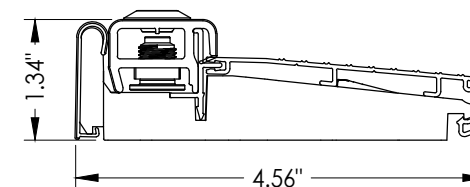


3 INSWING ADJUSTABLE THRESHOLD
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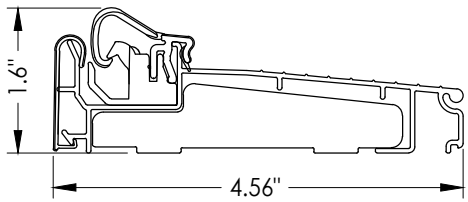
4 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN

MAX. DESIGN PRESSURE = ± 45 PSF



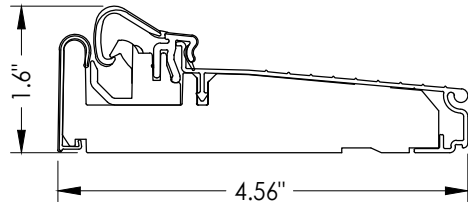
5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS

MAX. DESIGN PRESSURE = ± 45 PSF



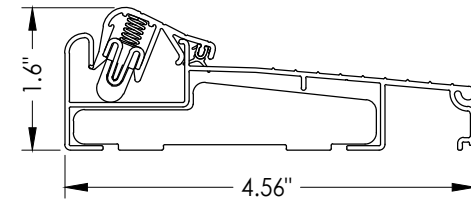
6 INSWING ARTICULATING THRESHOLD
ZACL4565

MAX. DESIGN PRESSURE = ± 45 PSF



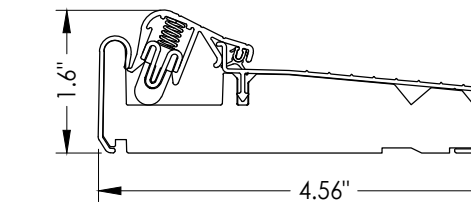
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN

MAX. DESIGN PRESSURE = ± 45 PSF



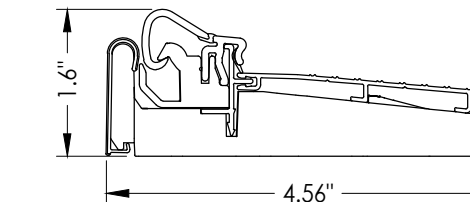
8 INSWING ARTICULATING THRESHOLD
ZACLAA4565

MAX. DESIGN PRESSURE = ± 45 PSF



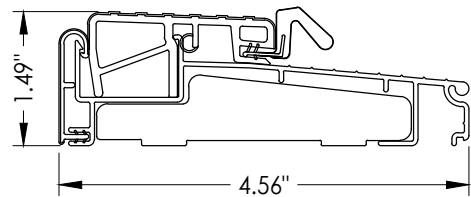
9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN

MAX. DESIGN PRESSURE = ± 45 PSF

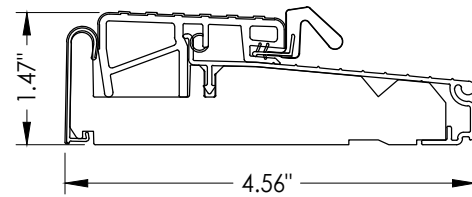


10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

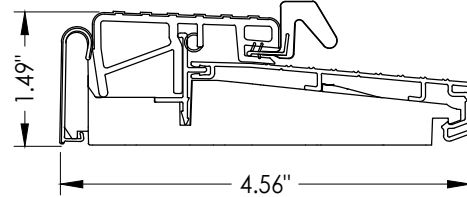
MAX. DESIGN PRESSURE = ± 45 PSF



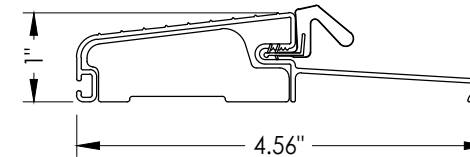
11 OUTSWING THRESHOLD
ZOBL4565



12 OUTSWING THRESHOLD
ZOB4565FN



13 OUTSWING THRESHOLD
ZOB4565RDS



14 OUTSWING THRESHOLD
FOB4566

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PRODUCT:
ENDURA

PART OR ASSEMBLY:
THRESHOLD
DETAILS

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DATE: 10/24/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16634.5

SHEET 5 OF 6

