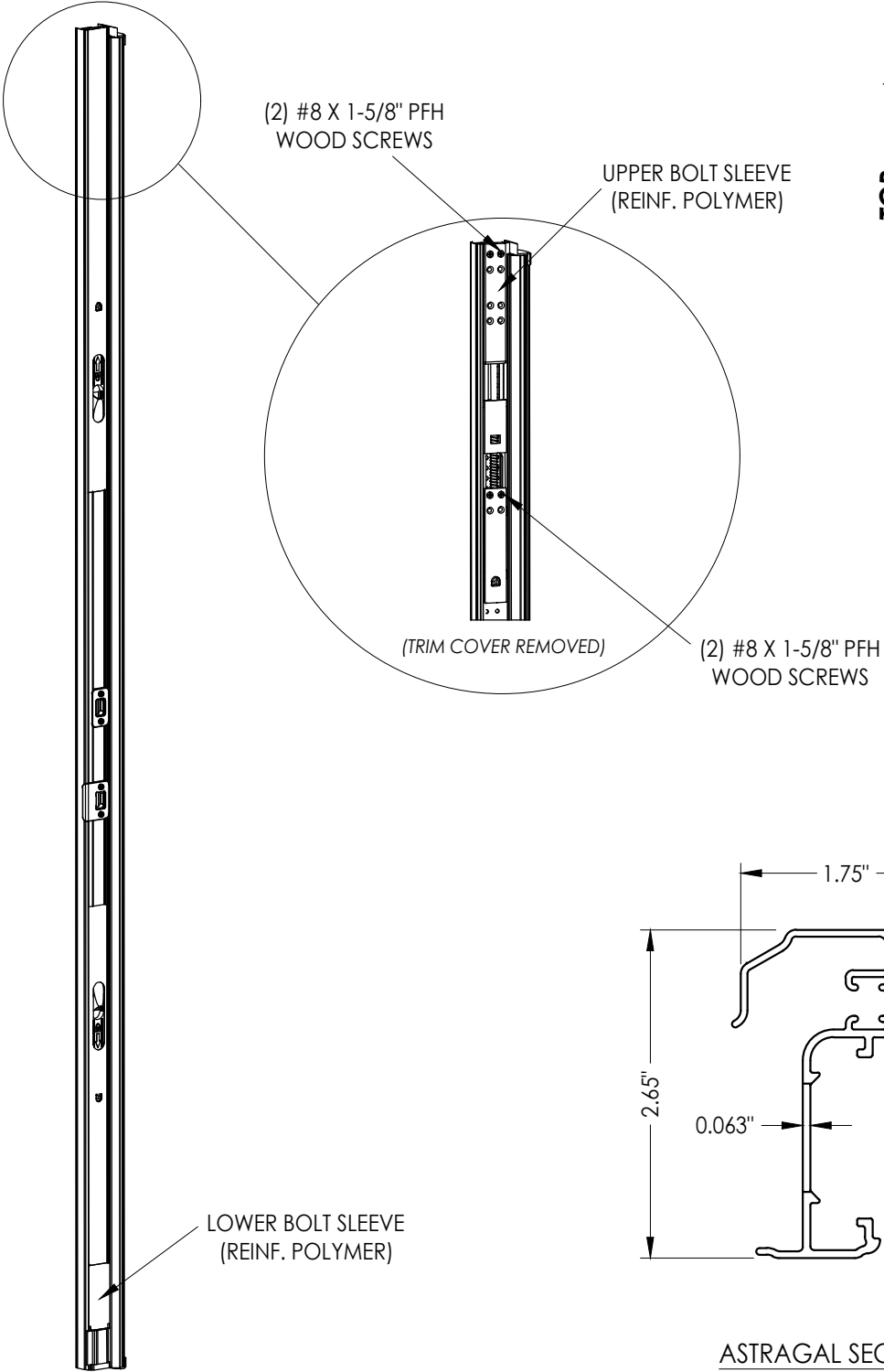
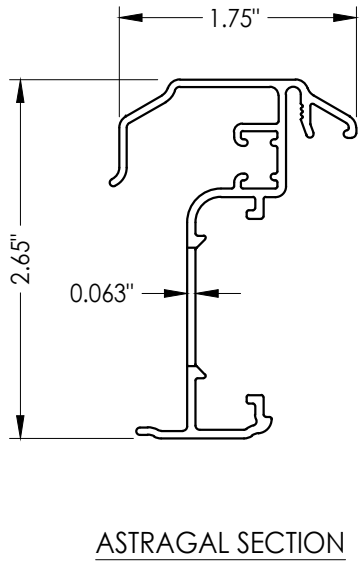
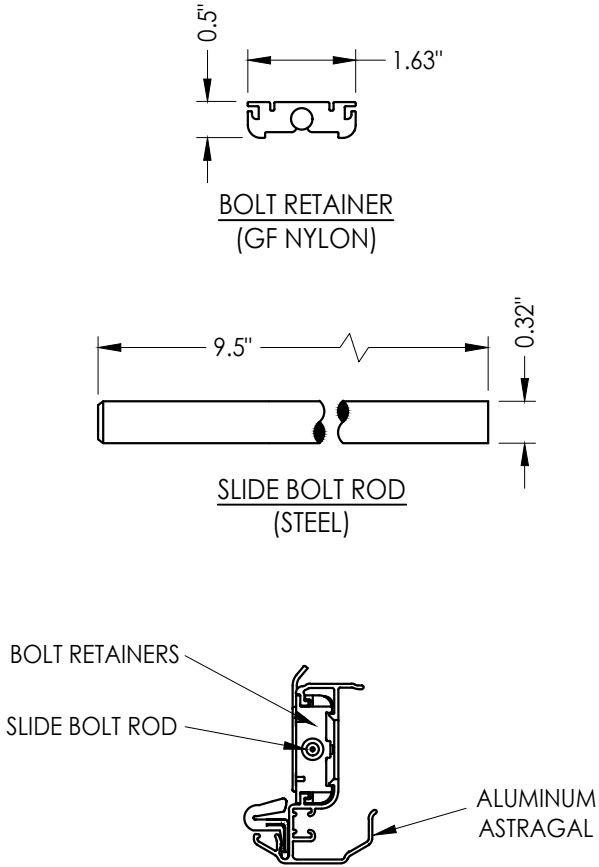
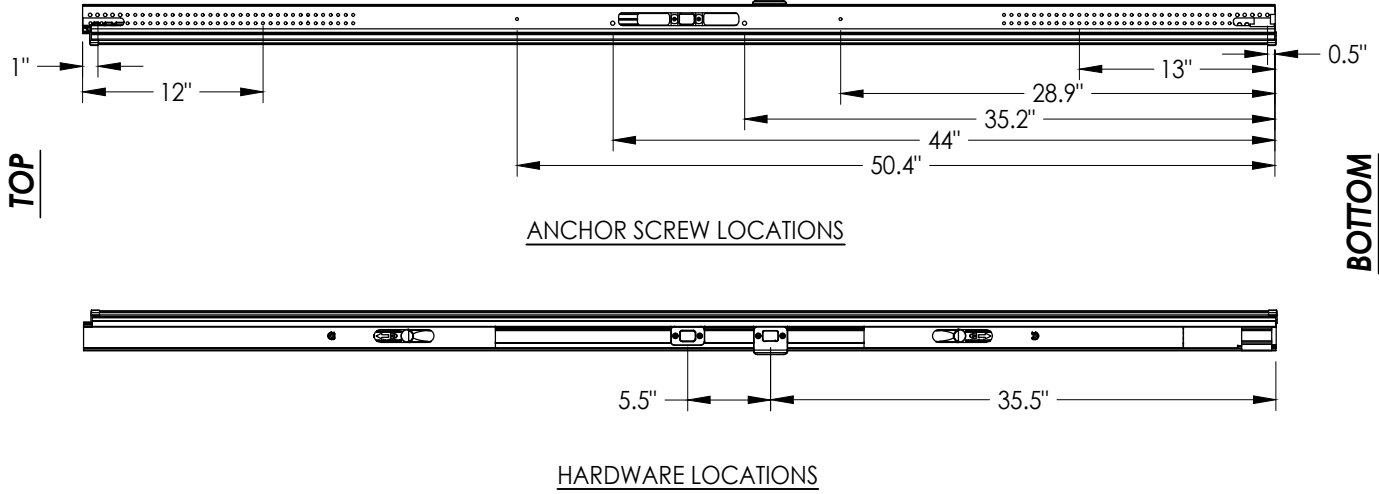




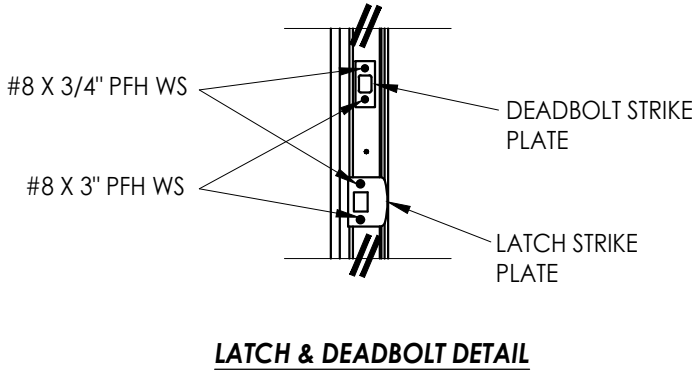
ULTIMATE HURRICANE ASTRAGAL



ASTRAGAL SECTION



ALUMINUM ASTRAGAL ASSEMBLY



NO.	DATE	REVISIONS
5	7/03/26	UPDATE TO 9TH ED. (2026) FBC
4	7/07/23	UPDATE TO 8TH ED. (2023) FBC
3	8/12/20	UPDATE TO 7TH ED. (2020) FBC
2	6/06/18	UPDATE FOR NEW TESTING
1	9/18/17	UPDATE TO 6TH ED. (2017) FBC
		BY

DATE: 5/24/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16634.19

SHEET 2 OF 6

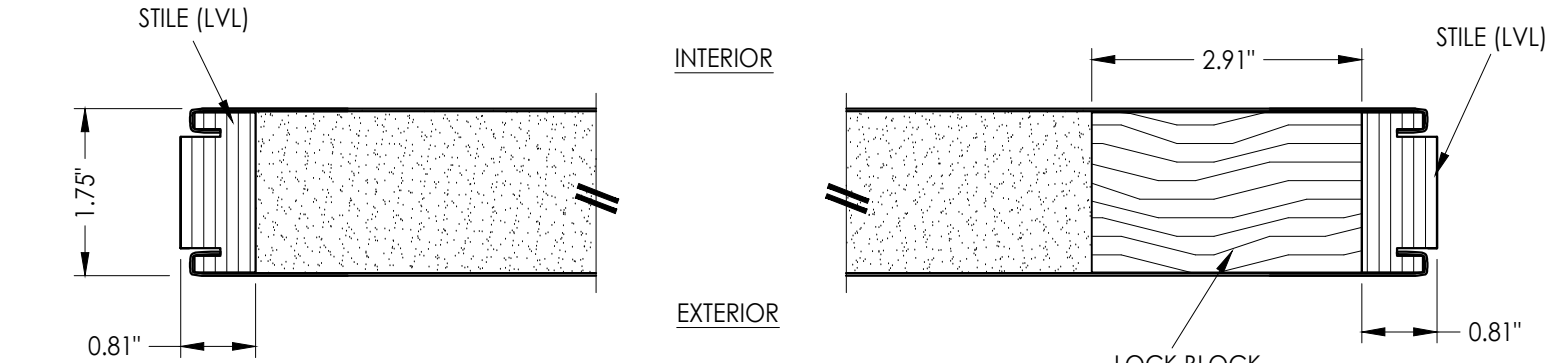
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

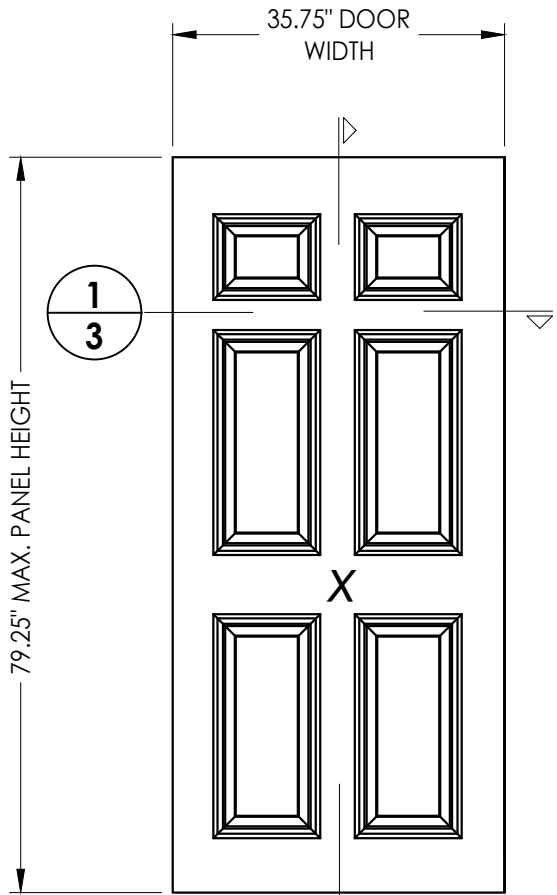
PRODUCT: ENDURA

PART OR ASSEMBLY:
ASTRAGAL DETAILS
(ULTIMATE HURRICANE)

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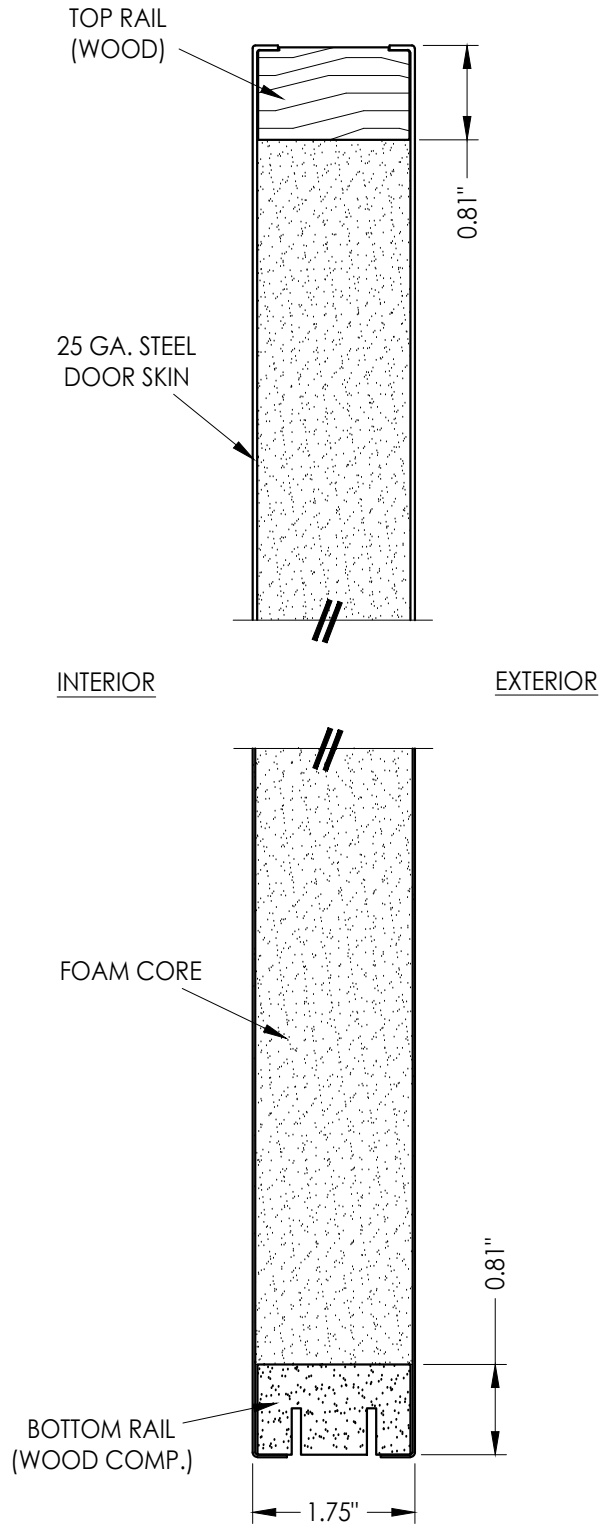


1
3 HORIZONTAL CROSS SECTION



2
3 DOOR PANEL
Masonite
Steel (Wood Edge)

DOOR SKIN: 25 GA. STEEL (0.020" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)



2
3 VERTICAL CROSS SECTION

NO.	DATE	REVISIONS
5	7/03/26	UPDATE TO 9TH ED. (2026)
4	7/07/23	UPDATE TO 8TH ED. (2023)
3	8/12/20	UPDATE TO 7TH ED. (2020)
2	6/06/18	UPDATE FOR NEW TESTING
1	9/18/17	UPDATE TO 6TH ED. (2017)

DATE: 5/24/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16634.19

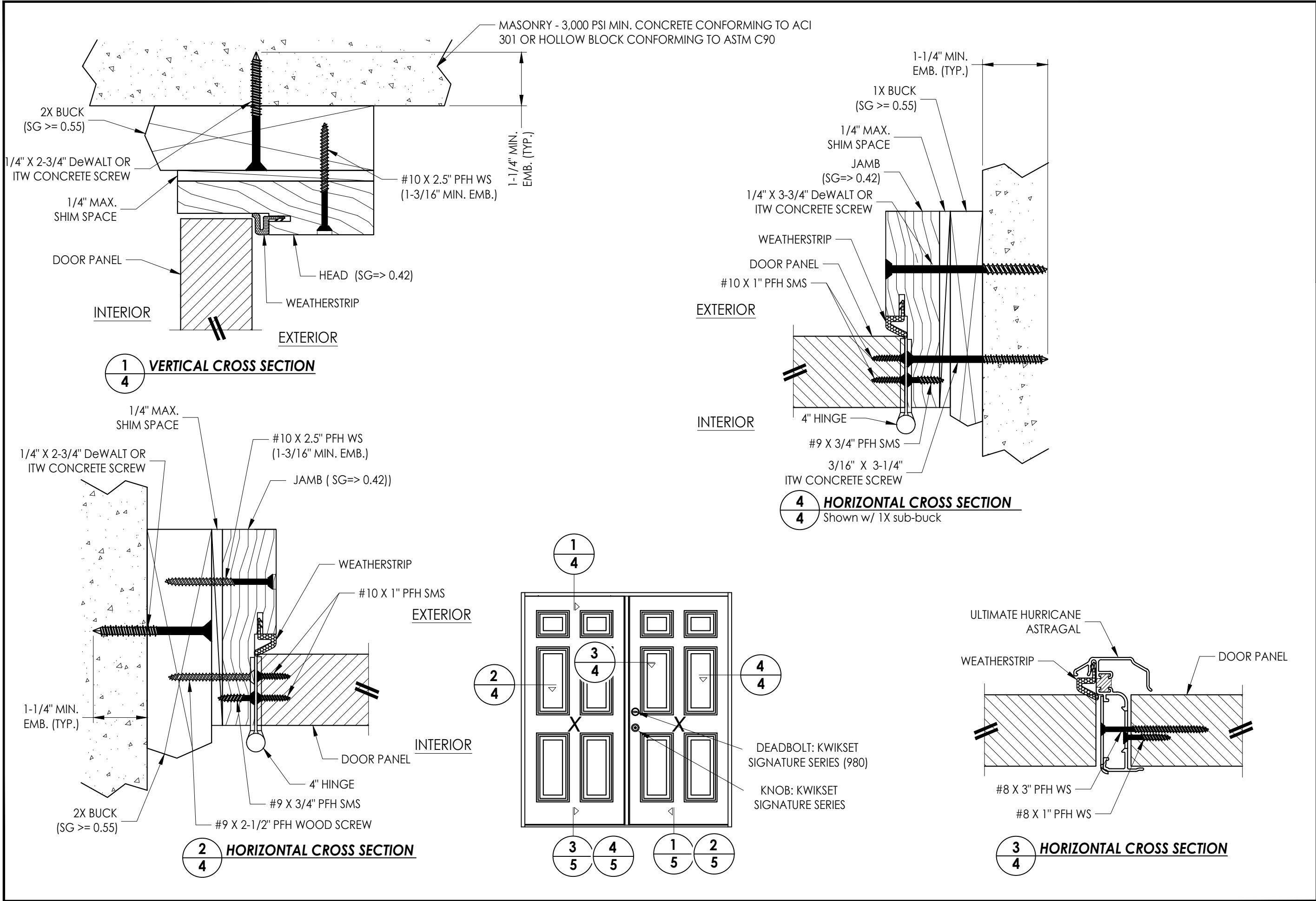
SHEET 3 OF 6

Documents Prepared By:
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P.E. No. 43409

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

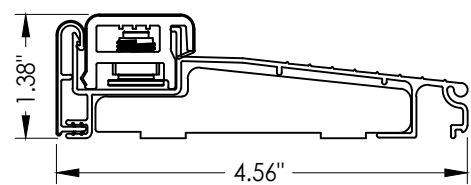
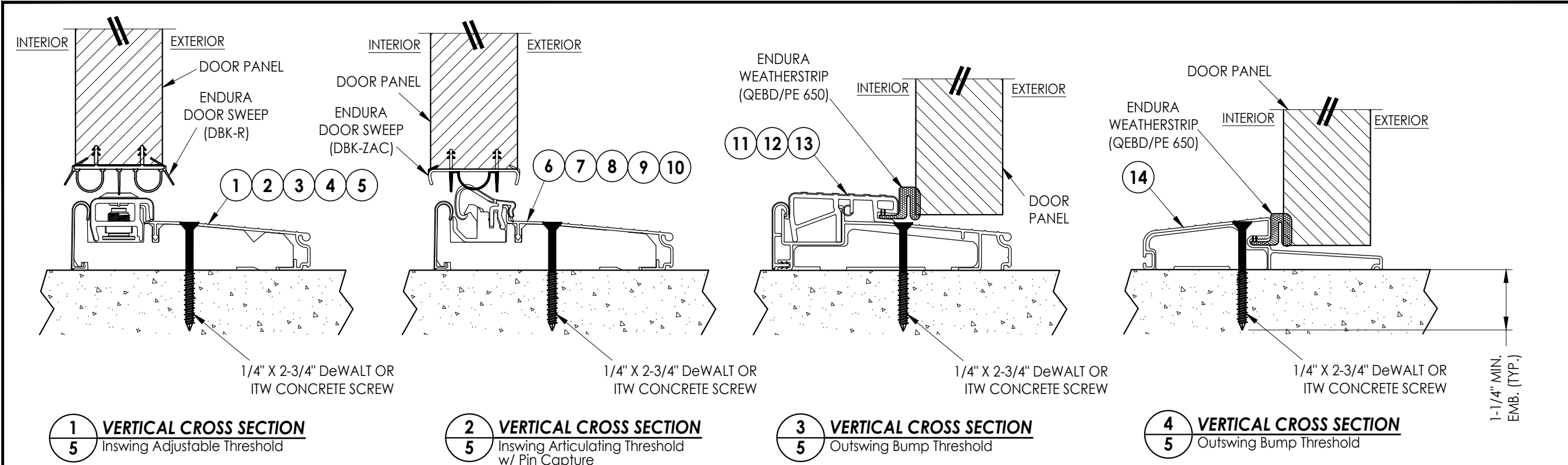
PRODUCT: ENDURA
PART OR ASSEMBLY:
DOOR PANEL DETAILS
& GLAZING DETAIL

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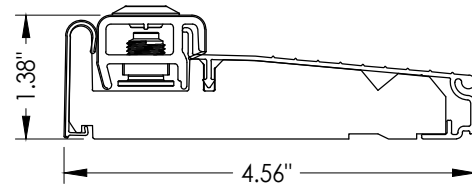


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: ENDURA		PART OR ASSEMBLY: HORIZONTAL AND VERTICAL CROSS SECTIONS	
	LFS	UPDATE TO 9TH ED. (2026) FBC	REVISIONS
5	7/03/26	UPDATE TO 8TH ED. (2023) FBC	NO. DATE
4	7/07/23	UPDATE TO 7TH ED. (2020) FBC	
3	8/12/20	UPDATE FOR NEW TESTING	
2	6/06/18	UPDATE TO 6TH ED. (2017) FBC	
1	9/18/17		
DATE: 5/24/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16634.19			
SHEET 4 OF 6			

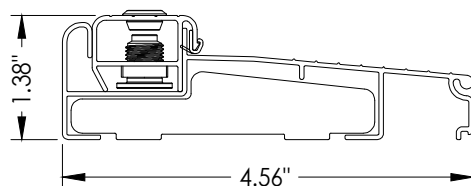
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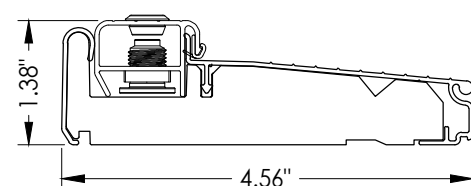
1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565
MAX. DESIGN PRESSURE = ± 50 PSF



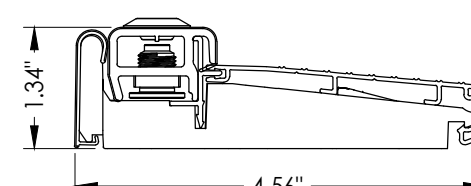
2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN
MAX. DESIGN PRESSURE = ± 50 PSF



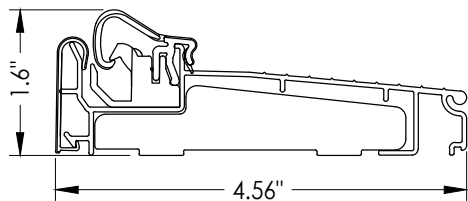
3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565
MAX. DESIGN PRESSURE = ± 50 PSF



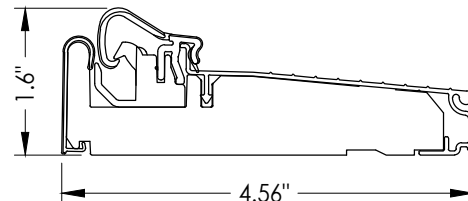
4 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN
MAX. DESIGN PRESSURE = ± 50 PSF



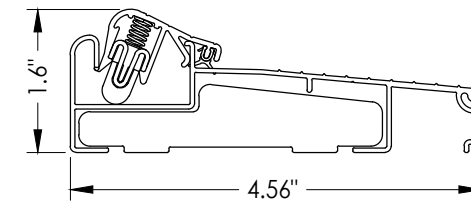
5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS
MAX. DESIGN PRESSURE = ± 50 PSF



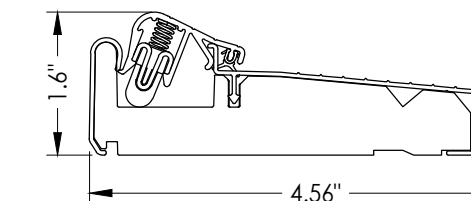
6 INSWING ARTICULATING THRESHOLD
ZACL4565



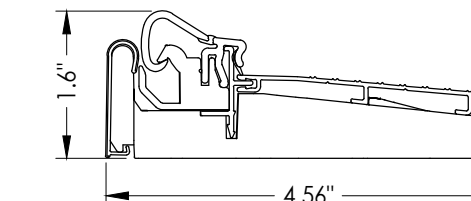
7 INSWING ARTICULATING THRESHOLD
ZAC4565FN
MAX. DESIGN PRESSURE = $+45/-50$ PSF



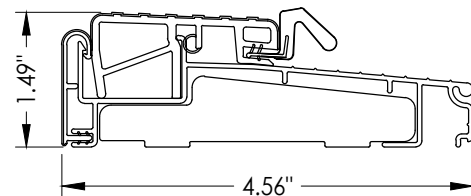
8 INSWING ARTICULATING THRESHOLD
ZACLAA4565



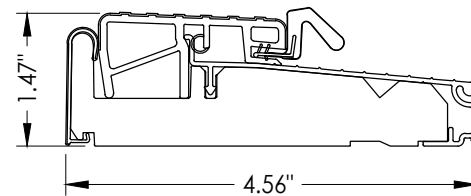
9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN
MAX. DESIGN PRESSURE = $+45/-50$ PSF



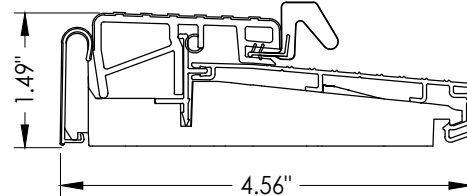
10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS
MAX. DESIGN PRESSURE = ± 45 PSF



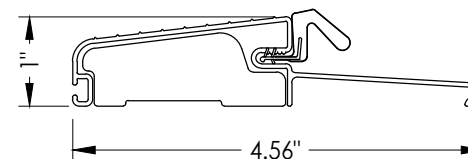
11 OUTSWING THRESHOLD
ZOBL4565



12 OUTSWING THRESHOLD
ZOB4565FN



13 OUTSWING THRESHOLD
ZOB4565RDS



14 OUTSWING THRESHOLD
FOB4566

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FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
THRESHOLD
DETAILS

NO.	DATE	REVISIONS				
		BY	LFS	FBC	(2017)	FBC
5	7/03/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS	
4	7/07/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS	
3	8/12/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS	
2	6/06/18	UPDATE FOR NEW TESTING			LFS	
1	9/18/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS	

DATE: 5/24/16

SCALE: N.T.S.

DWG. BY: JK

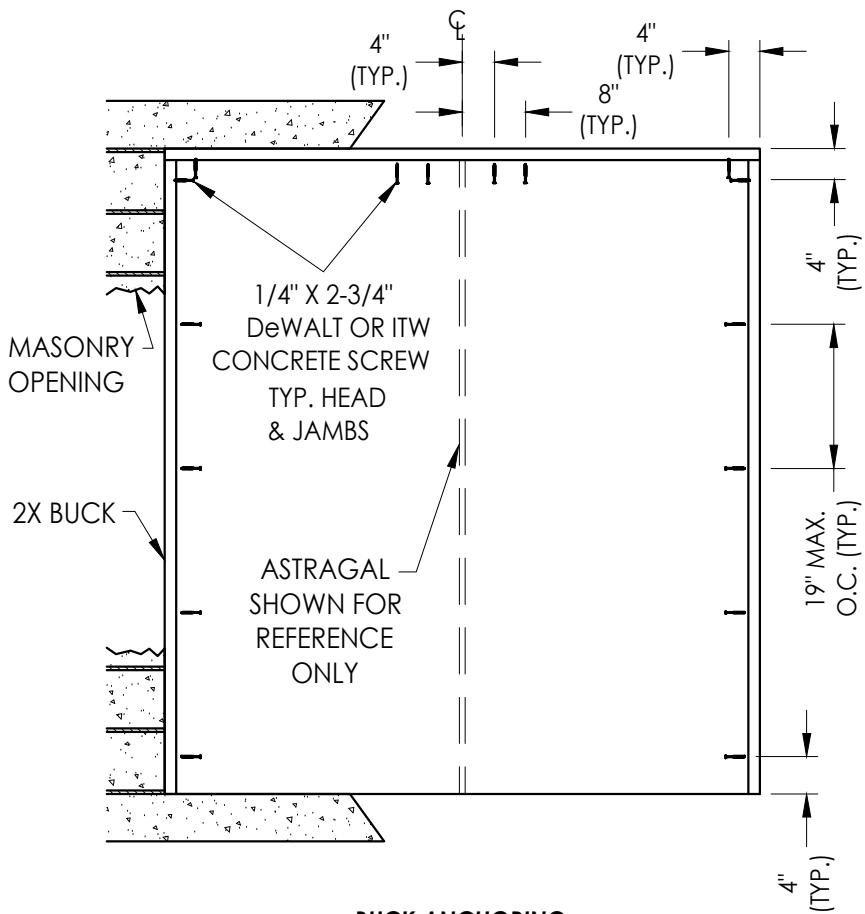
CHK. BY: LFS

DRAWING NO.:

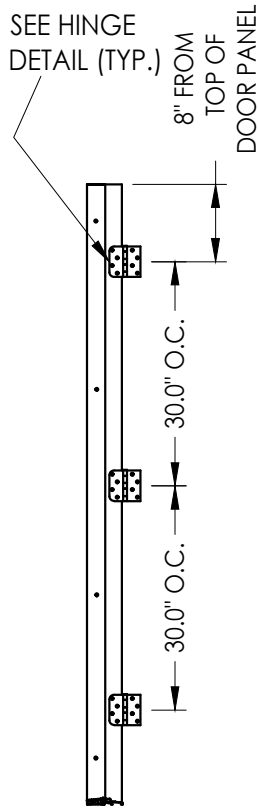
FL-16634.19

SHEET 5 OF 6

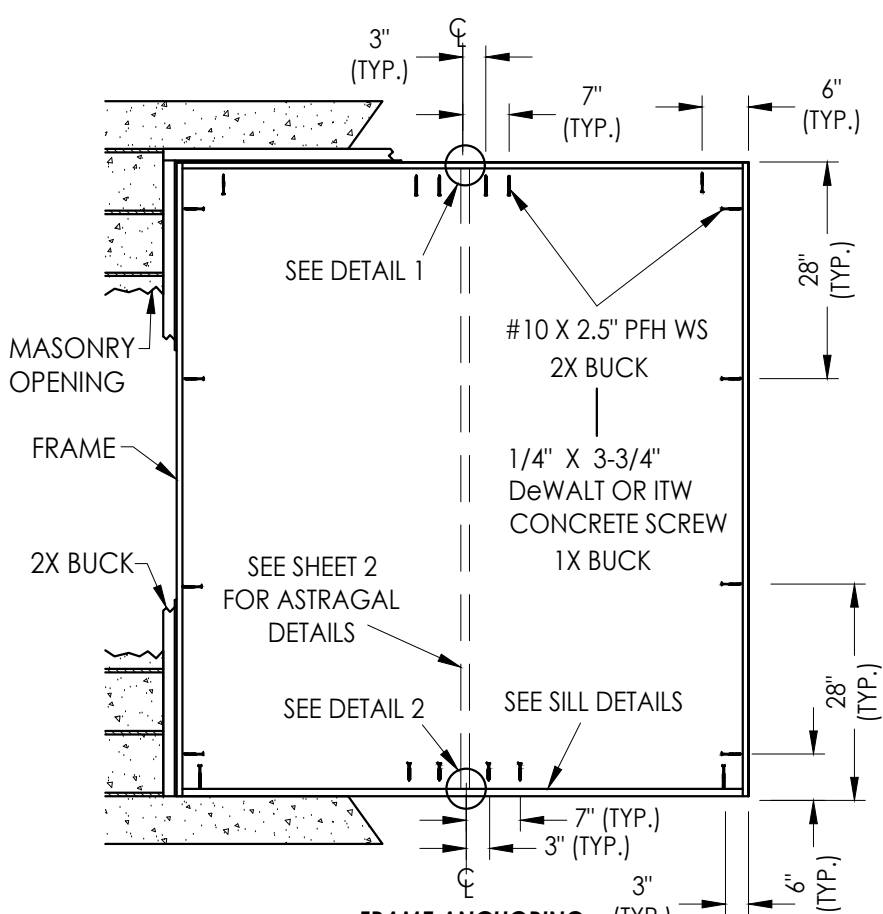
Z:\2023 FBC Drawings\Endura Products\FL-16634 R10\FL-16634.17-20.dwg



BUCK ANCHORING
XX



HINGE JAMB



FRAME ANCHORING
XX

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.

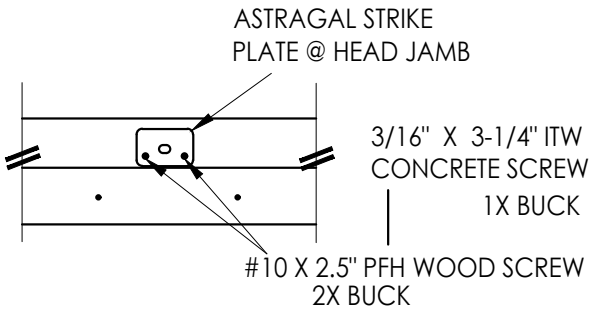
CONCRETE ANCHOR NOTES:

- 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:

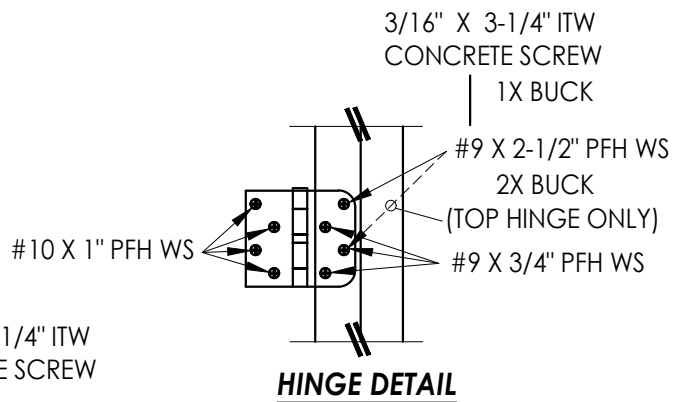
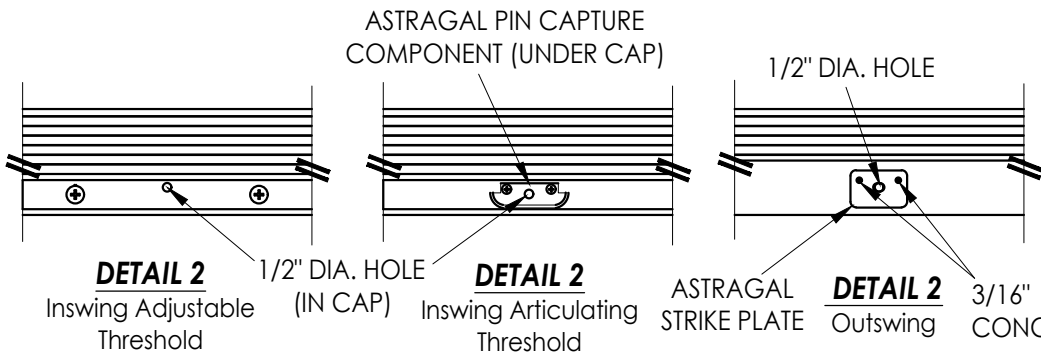
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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.



DETAIL 1



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

PRODUCT: ENDURA

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING

	LFS	LFS	LFS	LFS	LFS	BY
UPDATE TO 9TH ED. (2026)	FBC	FBC	FBC	FBC	FBC	
UPDATE TO 8TH ED. (2023)	FBC	FBC	FBC	FBC	FBC	
UPDATE TO 7TH ED. (2020)	FBC	FBC	FBC	FBC	FBC	
UPDATE FOR NEW TESTING	FBC	FBC	FBC	FBC	FBC	
UPDATE TO 6TH ED. (2017)	FBC	FBC	FBC	FBC	FBC	
NO. 1	DATE					
REVISIONS						

DATE: 5/24/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16634.19

SHEET 6 OF 6