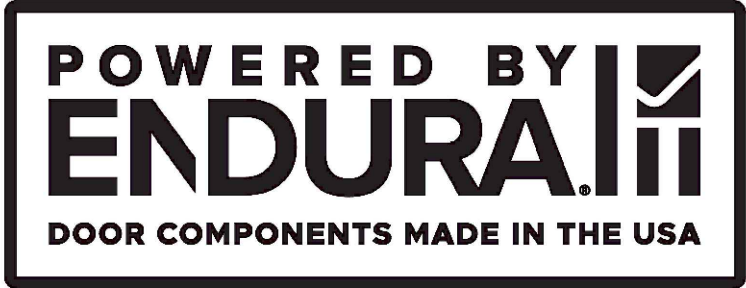


Z:\2023 FBC Drawings\Endura Products\FL-20698 R5\FL-20698.1-2.dwg



Z SERIES THRESHOLDS

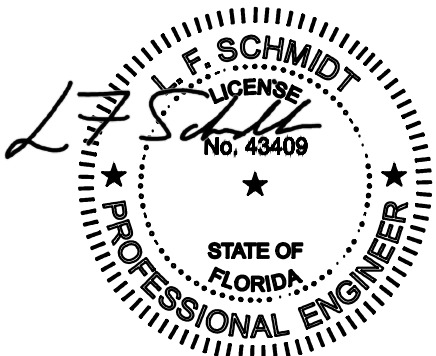
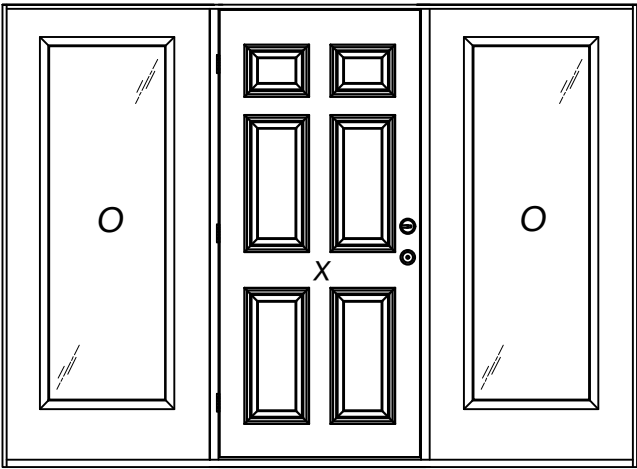
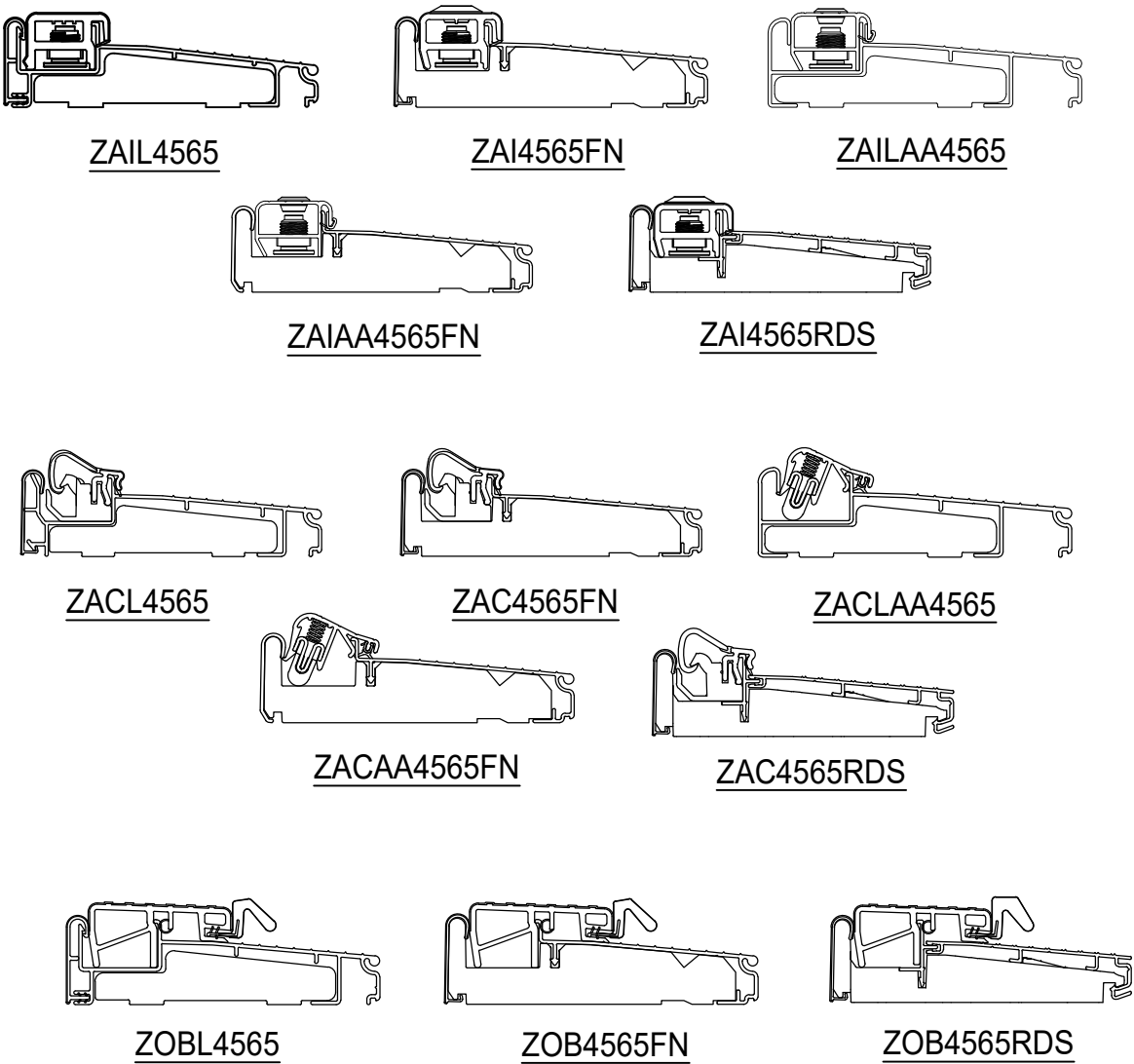
CONTINUOUS HEAD & SILL
FRAME SYSTEM

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 Elevation & General Notes
2	Z Series Threshold Details & Design Pressures
3	Door Panel Details
4	Sidelite Panel Details
5	Elevations
6	Vertical Cross Sections
7	Horizontal Cross Sections
8	Buck Anchoring
9	Frame Anchoring & Hardware Details
10	Bill of Materials & Components



Digitally signed by Lyndon F Schmidt
Date: 2026.07.17 12:04:55 -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 ELEVATION
& GENERAL NOTES

REVISIONS

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

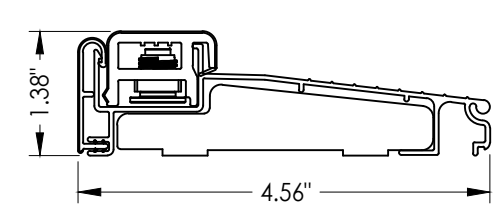
DRAWING NO.: FL-20698.1

SHEET 1 OF 10

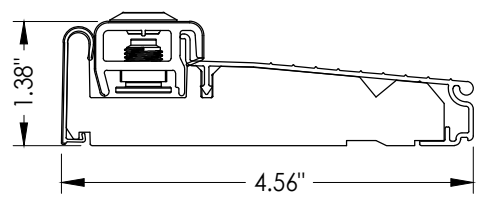
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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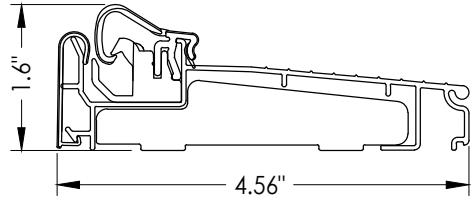
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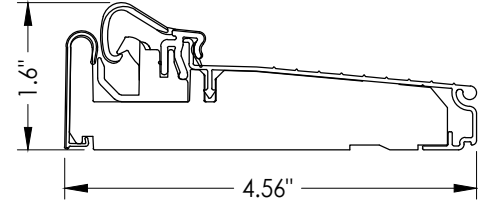
T1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



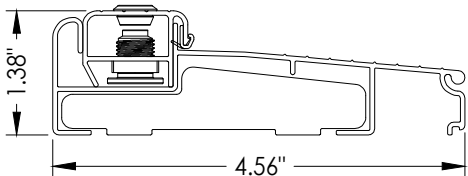
T2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



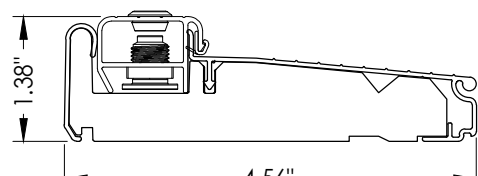
T6 INSWING ARTICULATING THRESHOLD
ZACL4565



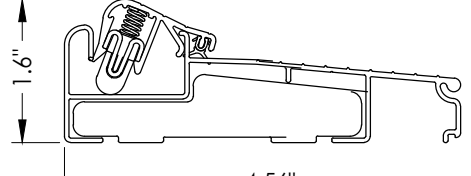
T7 INSWING ARTICULATING THRESHOLD
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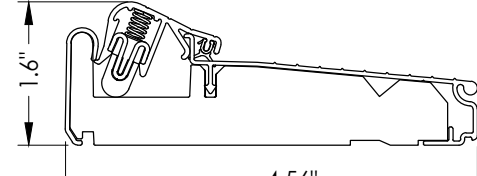
T3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



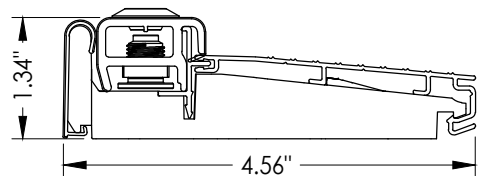
T4 INSWING ADJUSTABLE THRESHOLD
ZIAAA4565FN



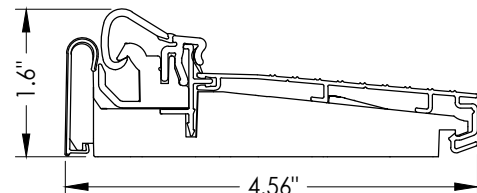
T8 INSWING ARTICULATING THRESHOLD
ZACLAA4565



T9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



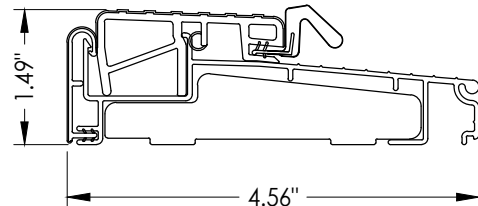
T5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS



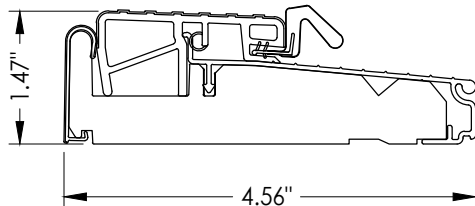
T10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

INSWING ADJUSTABLE THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO OPAQUE FIBERGLASS	OX / XO	74.75" X 81.94"	+45.0	-45.0
	OXO	112.2" X 81.94"		

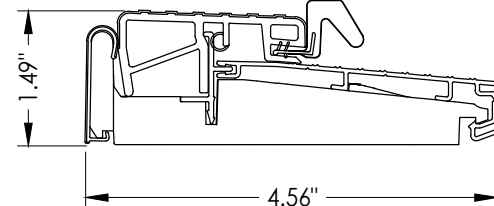
INSWING ARTICULATING THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO OPAQUE FIBERGLASS	OX / XO	74.75" X 81.94"	+45.0	-45.0
	OXO	112.2" X 81.94"		



T11 OUTSWING THRESHOLD
ZOBL4565



T12 OUTSWING THRESHOLD
ZOB4565FN



T13 OUTSWING THRESHOLD
ZOB4565RDS

OUTSWING FIXED BUMPER THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO OPAQUE FIBERGLASS	OX / XO	74.75" X 81.13"	+60.0	-60.0
	OXO	112.2" X 81.13"		

OUTSWING FIXED BUMPER THRESHOLD (RDS)				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO OPAQUE FIBERGLASS	OX / XO	74.75" X 81.13"	+55.0	-60.0
	OXO	112.2" X 81.13"		

NOTE:

All thresholds are to be installed continuous throughout. The thresholds with the FN designation are manufactured in maximum 72" lengths and therefore may be used only in the OX or XO configurations or in the OXO configuration with smaller (14") sidelites.

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:
Z SERIES THRESHOLD DETAILS
& DESIGN PRESSURES

NO.	DATE	REVISIONS			
		DATE	BY	CHK	APP
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	8/06/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
1	9/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	

DATE: 5/26/16

SCALE: N.T.S.

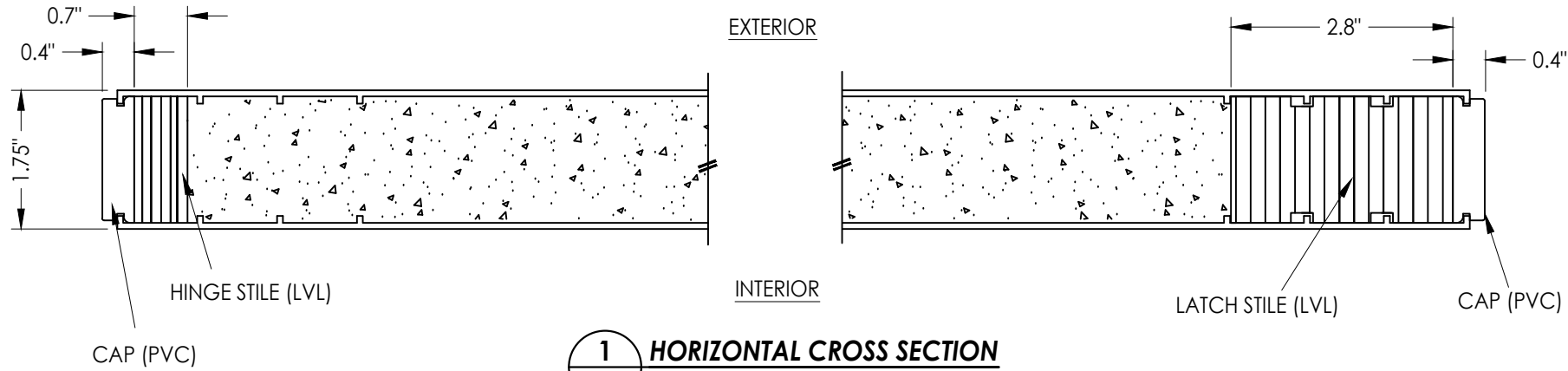
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20698.1

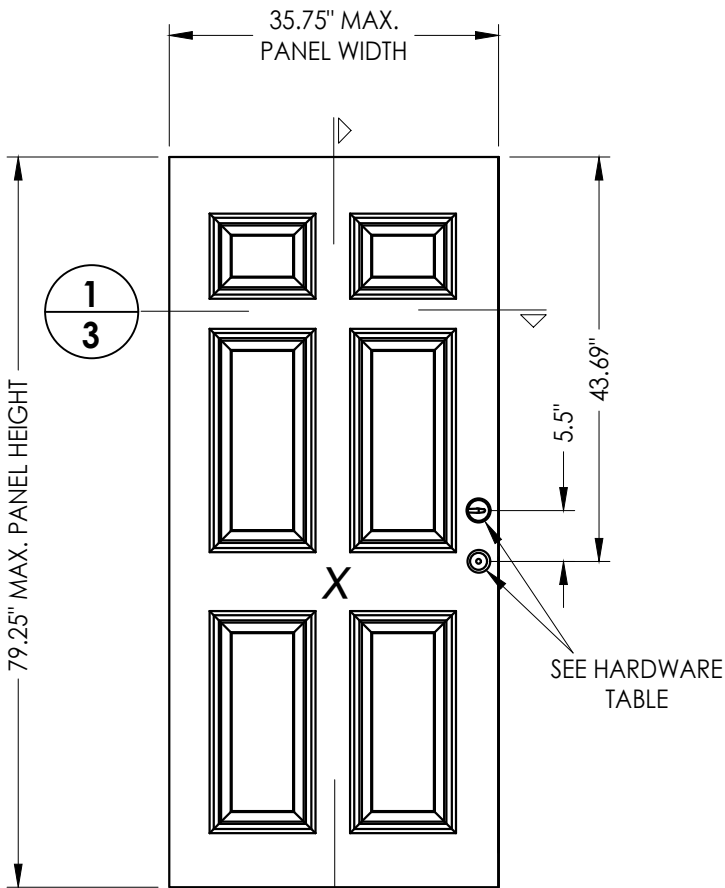
SHEET 2 OF 10

Z:\2023 FBC Drawings\Endura Products\FL-20698 R5\FL-20698.1-2.dwg



1
3

HORIZONTAL CROSS SECTION

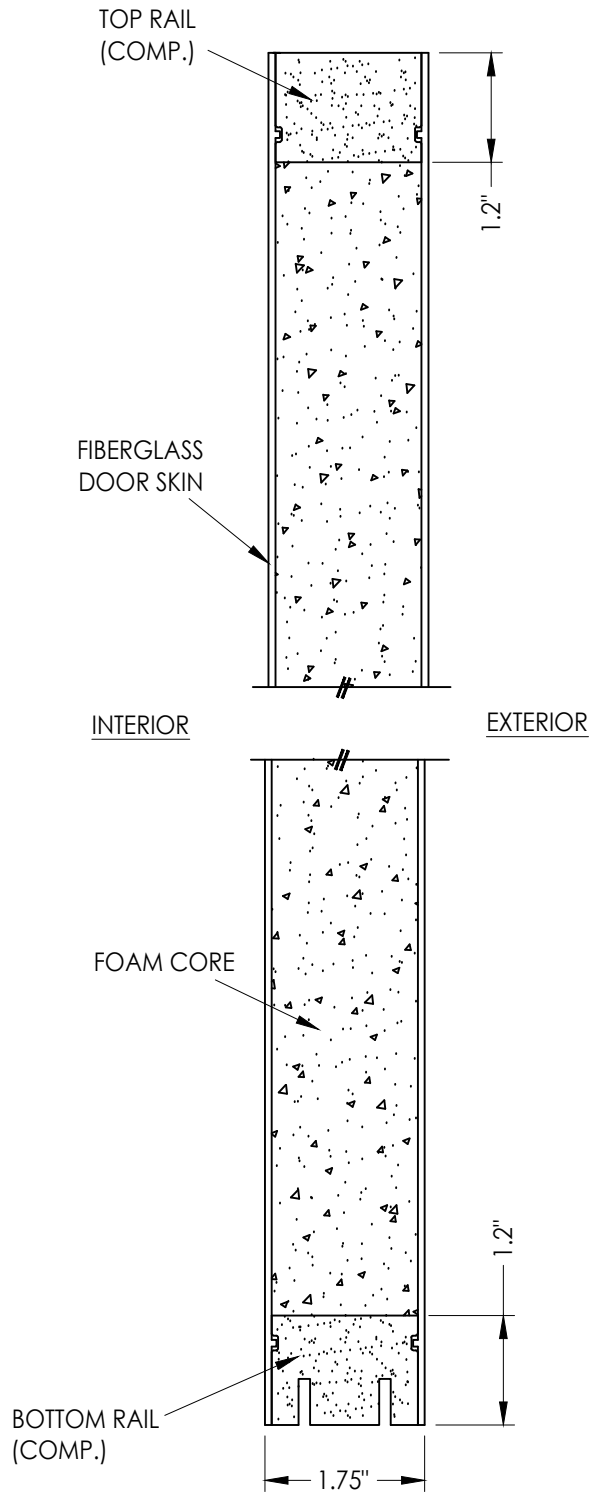


2
3

40 DOOR PANEL
Plastpro
Fiberglass

DOOR SKIN: FIBERGLASS (0.075" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)

DOOR LOCK HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)



2
3

VERTICAL CROSS SECTION

NO.	DATE	REVISIONS			
4	7/02/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
3	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	8/06/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC
1	9/07/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS

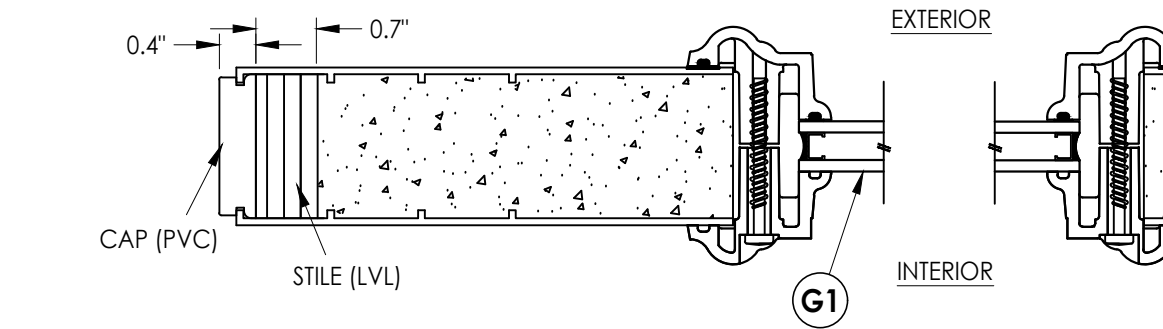
DATE: 5/26/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20698.1
SHEET 3 OF 10

PRODUCT:	
ENDURA	
PART OR ASSEMBLY:	
DOOR PANEL DETAILS	

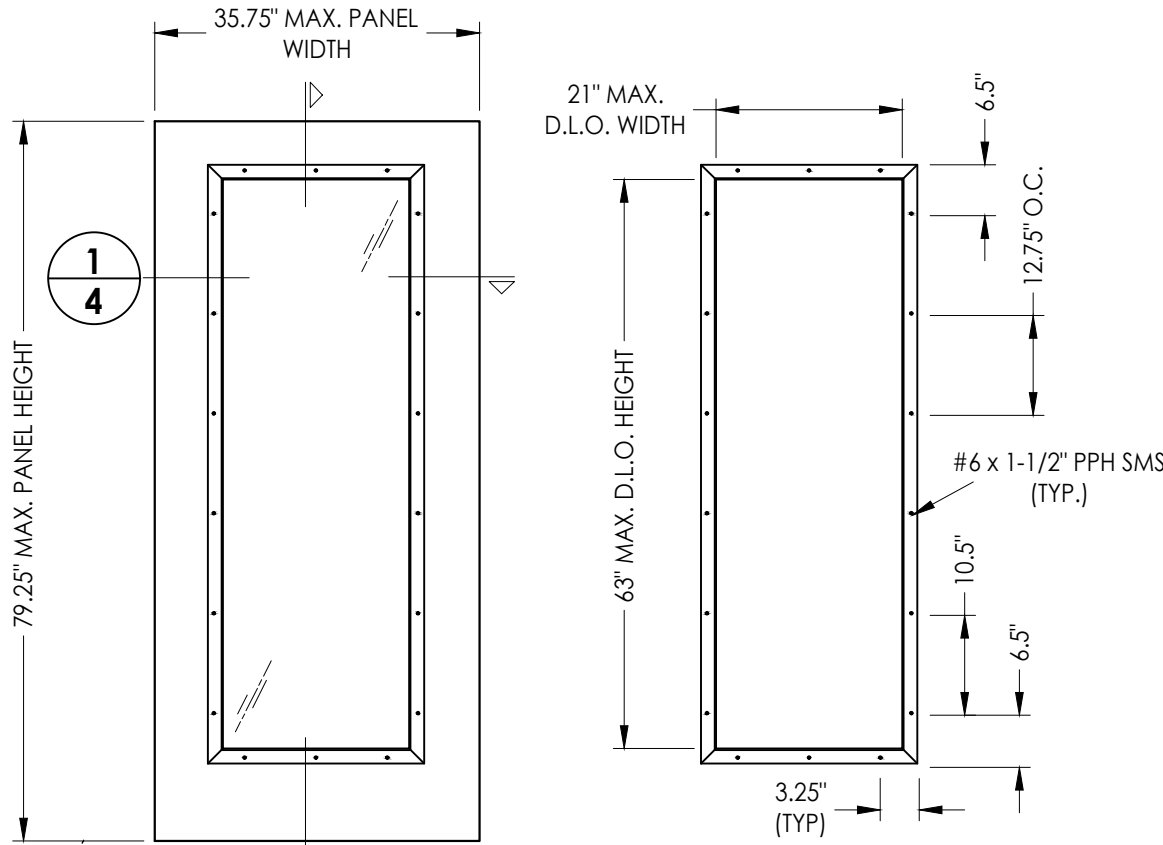
Documents Prepared By:
Lyndon F. Schmidt
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Phone No.: 813.659.9197
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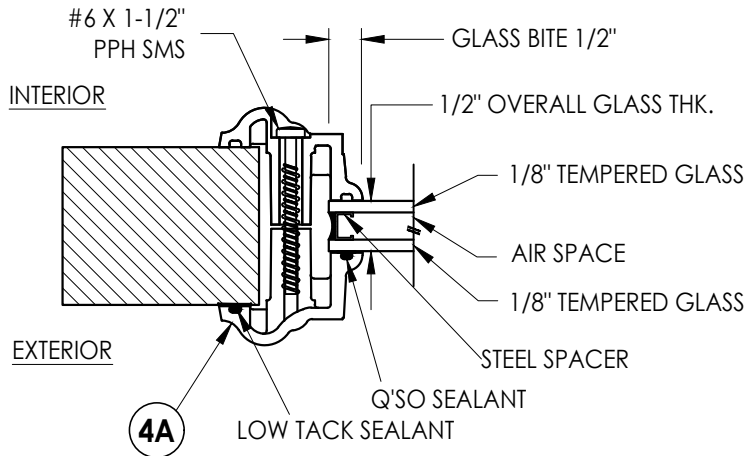
1
4 **HORIZONTAL CROSS SECTION**



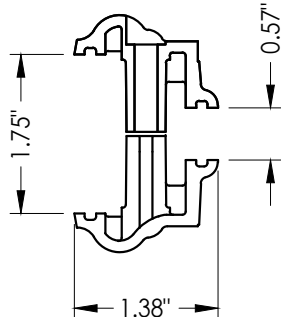
2
4

50 **SIDELITE PANEL**
Plastpro
Fiberglass

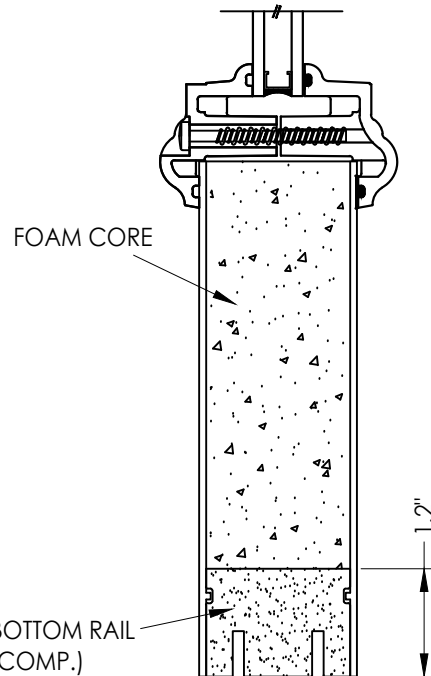
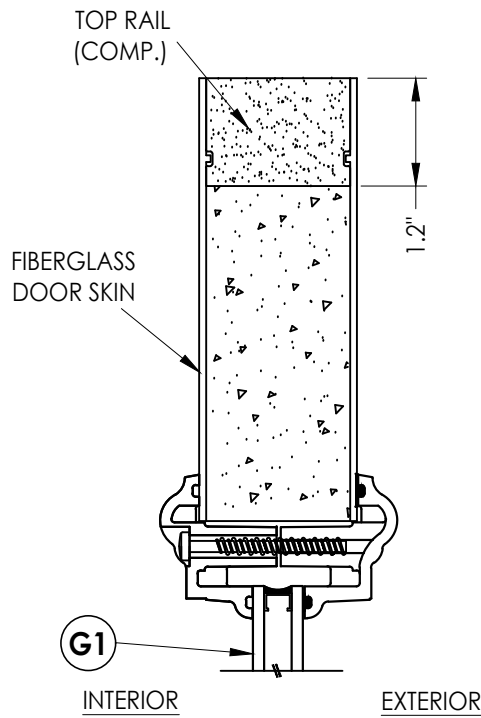
SIDELITE PANEL SKIN: FIBERGLASS (0.075" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)



G1 **GLAZING DETAIL**



4A **ODL LITE FRAME**
HP Polypropylene



2
4 **VERTICAL CROSS SECTION**

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FBPE Registry No. 9813

PRODUCT:	ENDURA
	SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS				
		DATE	BY	CHK.	APP.	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS		
3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
2	8/06/20	UPDATE TO 7TH ED. (2020)	FBC	DAC		
1	9/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS		

DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20698.1
SHEET	4 OF 10

112.2" MAX. OVERALL
FRAME WIDTH

1
6

2
6

3
6

4
7

5
7

6
6

7
6

8
6

2
7

ELEVATION
OXO

[illegible]

PRODUCT:	ENDURA
PART OR ASSEMBLY:	ELEVATIONS

Documents Prepared By:
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Phone No.: 813.659.9197
FBPE Registry No. 9813



INTERIOR

EXTERIOR

T11 T12 T13

M

SEE NOTE 1

50

T15

D

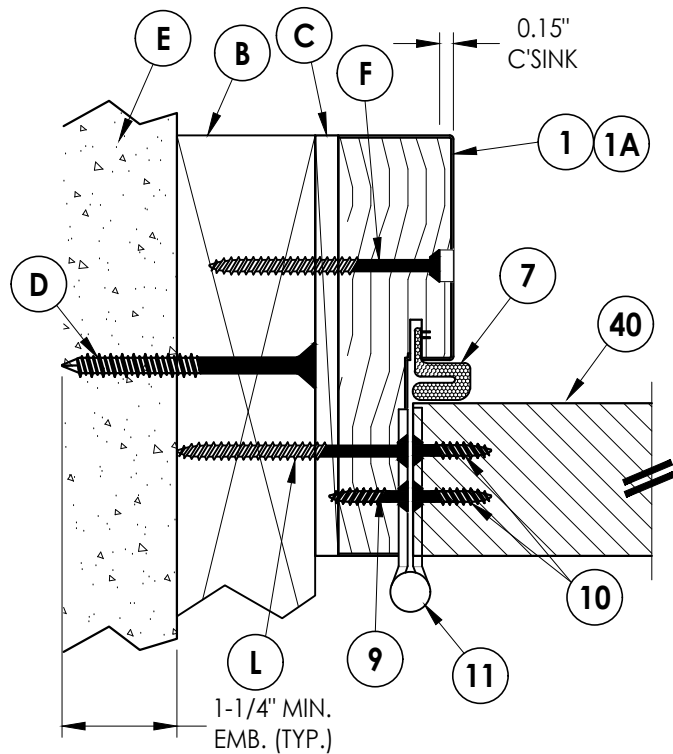
1-1/4" MIN.
EMB. (TYP.)

8	VERTICAL CROSS SECTION
6	
Outswing Sidelite Threshold	

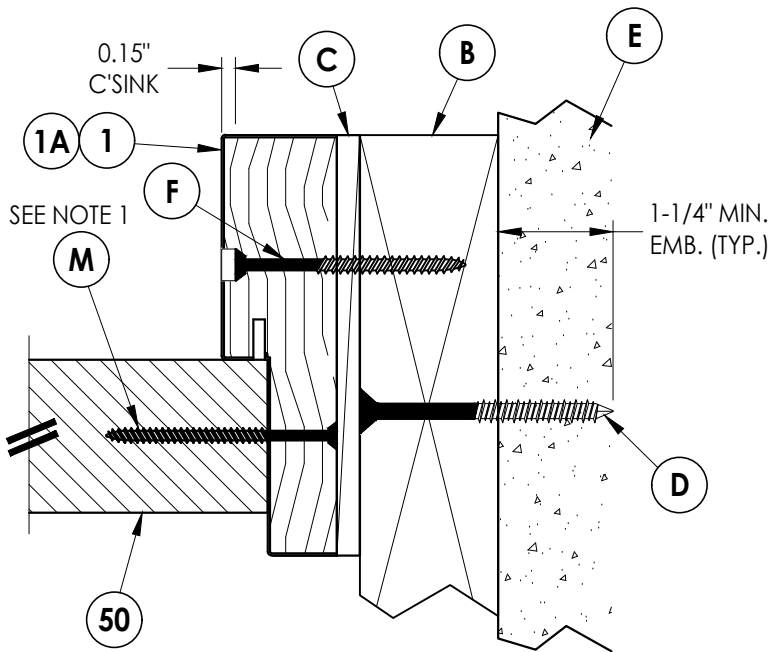


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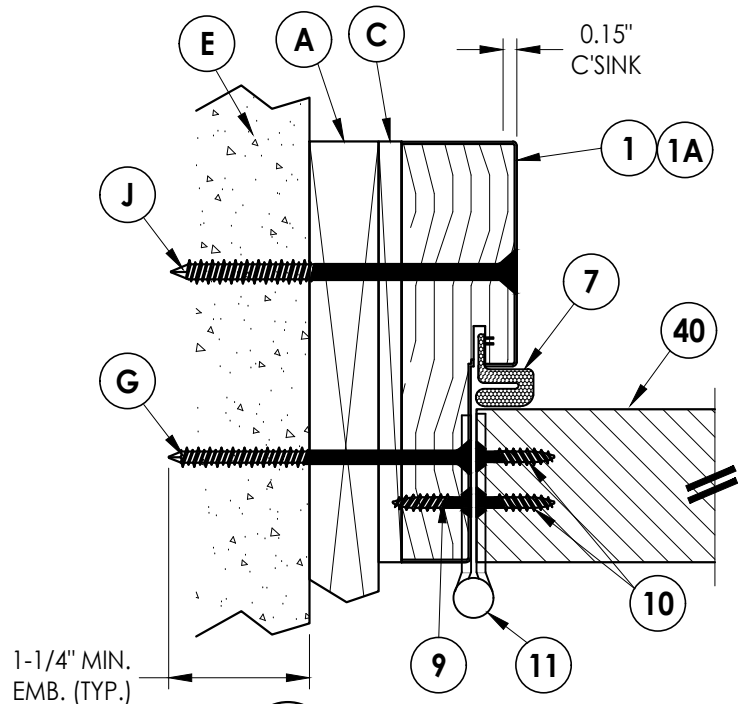


1
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

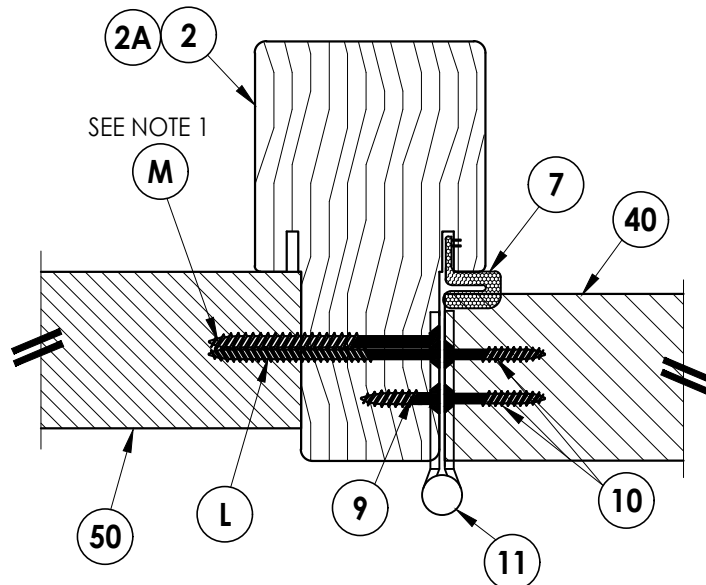


2
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

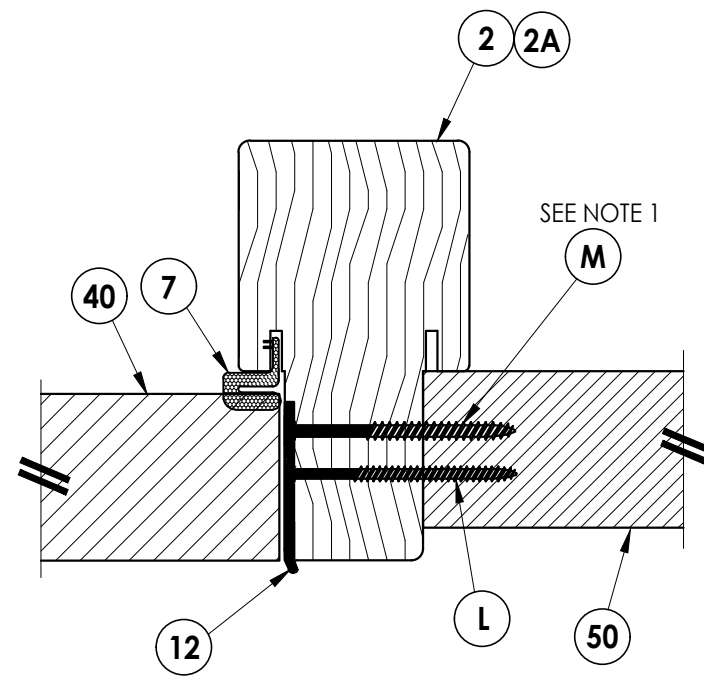
NOTE:
1. Spacing for sidelite screws (item M): 6.5", 38.5"
and 69" from head to sill (3 total).



3
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
1X Buck Construction



4
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



5
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

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:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS			
		DATE	BY	DESCRIPTION	
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	8/06/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
1	9/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	

DATE: 5/26/16

SCALE: N.T.S.

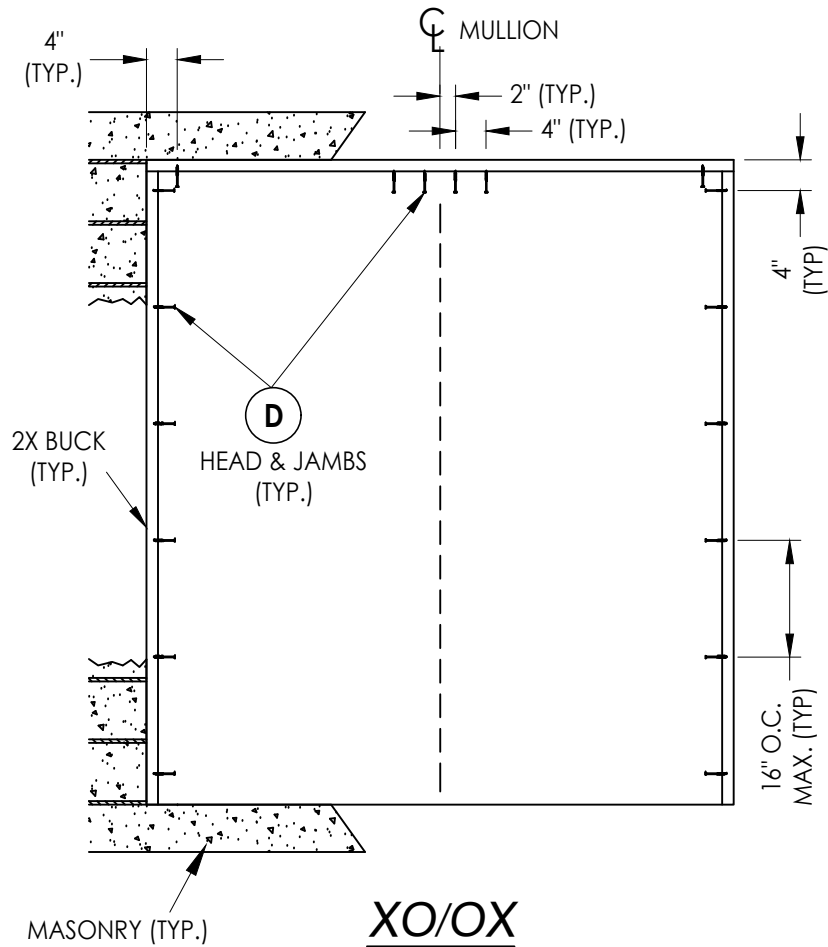
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CHK. BY: LFS

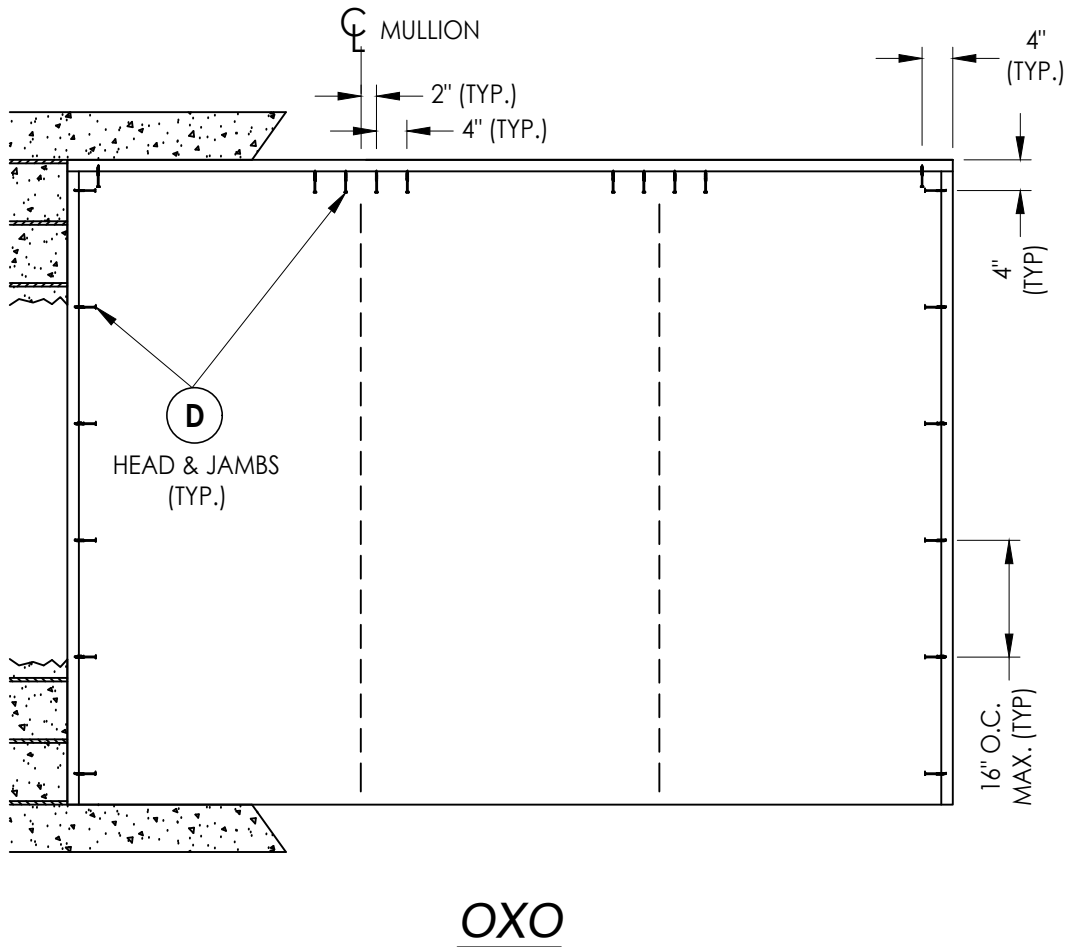
DRAWING NO.: FL-20698.1

SHEET 7 OF 10

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2X BUCK ANCHORING



DATE: 5/26/16	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-20698.1	
SHEET	8 of 10

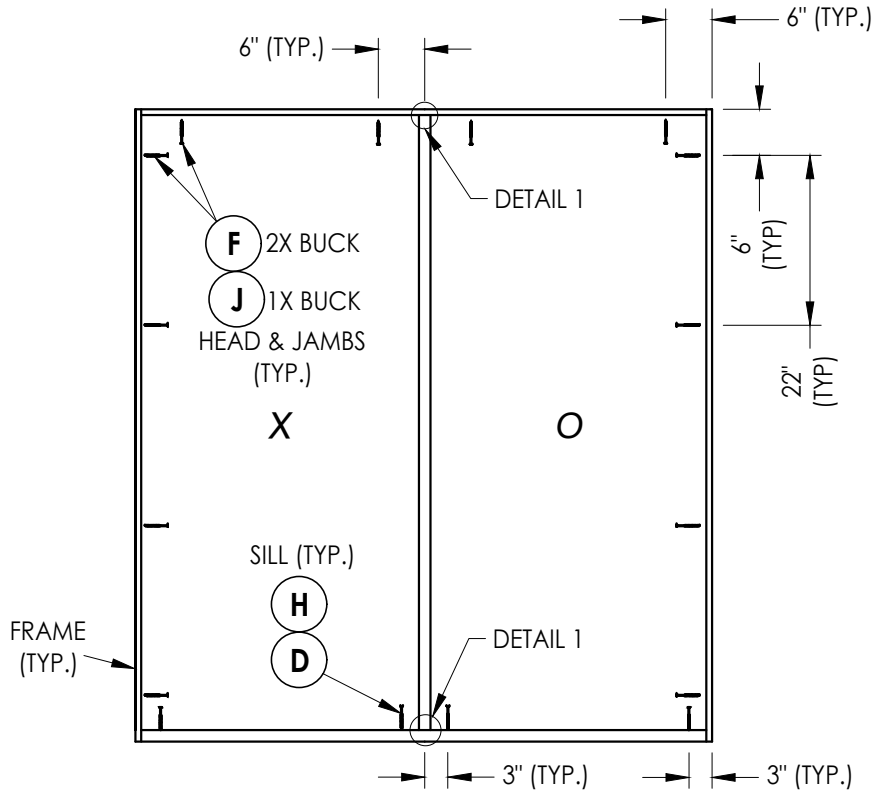
NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/06/20	UPDATE TO 7TH ED. (2020) FBC DAC
1	9/07/17	UPDATE TO 6TH ED. (2017) FBC LFS

PRODUCT: ENDURA	
PART OR ASSEMBLY: BUCK ANCHORING	

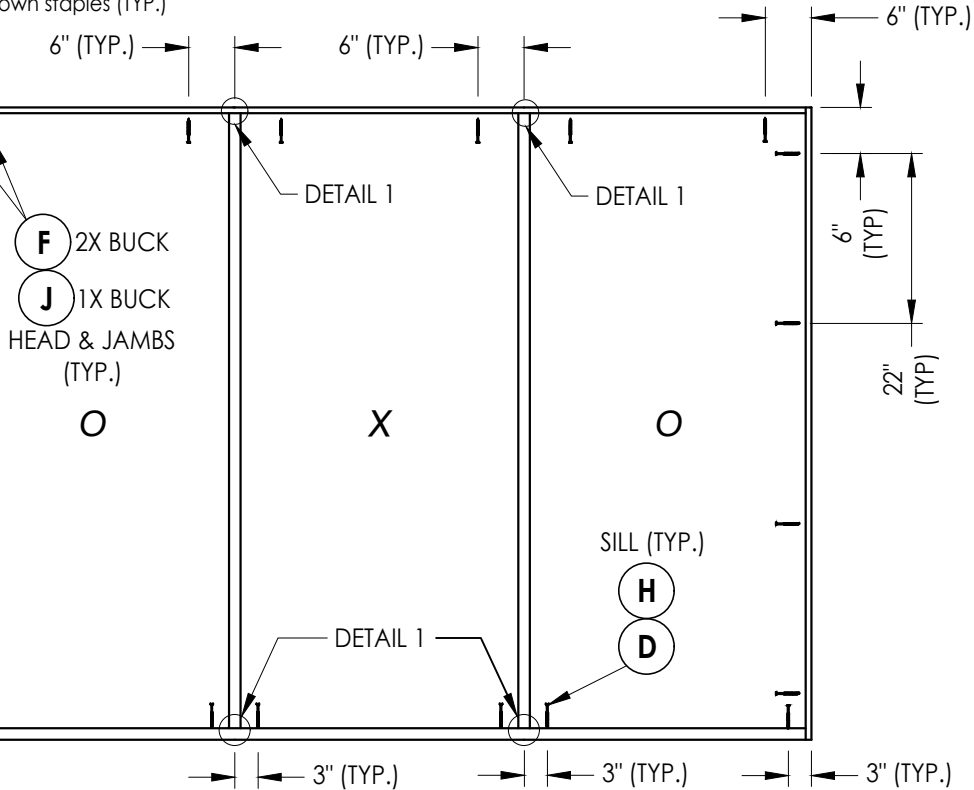
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

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The head is attached to the jamb w/
(3) 7/16" x 2" steel crown staples (TYP.)



The threshold is attached to the jamb
w/ (3) 7/16" x 2" steel crown staples &
(1) #8 x 1-5/8" wood screw (TYP.)

FRAME ANCHORING

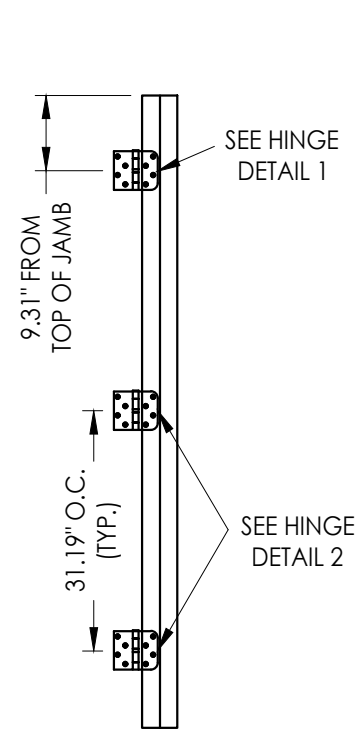
CORROSION RESISTANCE - SALTWATER ENVIRONMENT

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

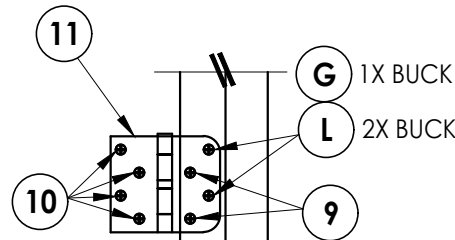


DETAIL 1

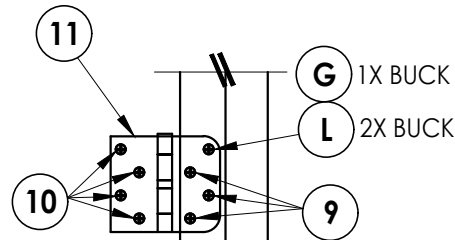
Integral mullion attachment



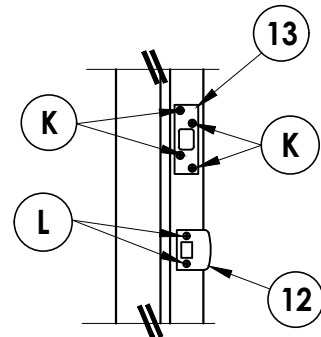
HINGE JAMB



HINGE DETAIL 1



HINGE DETAIL 2



LATCH & DEADBOLT STRIKE PLATE DETAILS

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 BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

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, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
FRAME ANCHORING
& HARDWARE DETAILS

NO.	DATE	REVISIONS
4	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/06/20	UPDATE TO 7TH ED. (2020) FBC DAC
1	9/07/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20698.1

SHEET 9 OF 10

