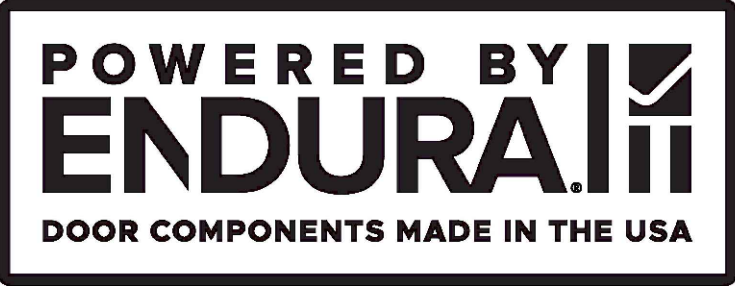


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Z SERIES THRESHOLDS

CONTINUOUS HEAD & SILL

FRAME SYSTEM

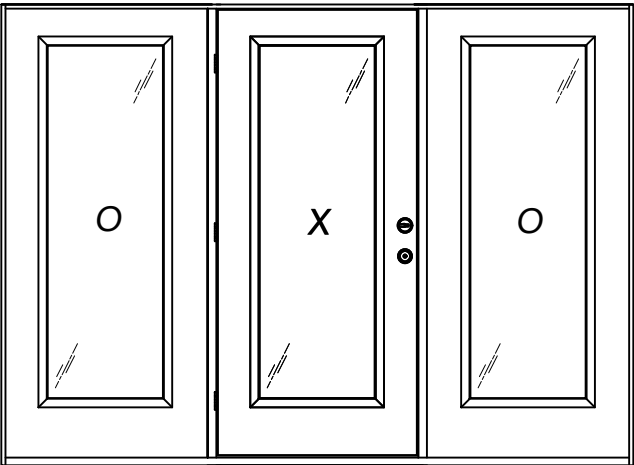
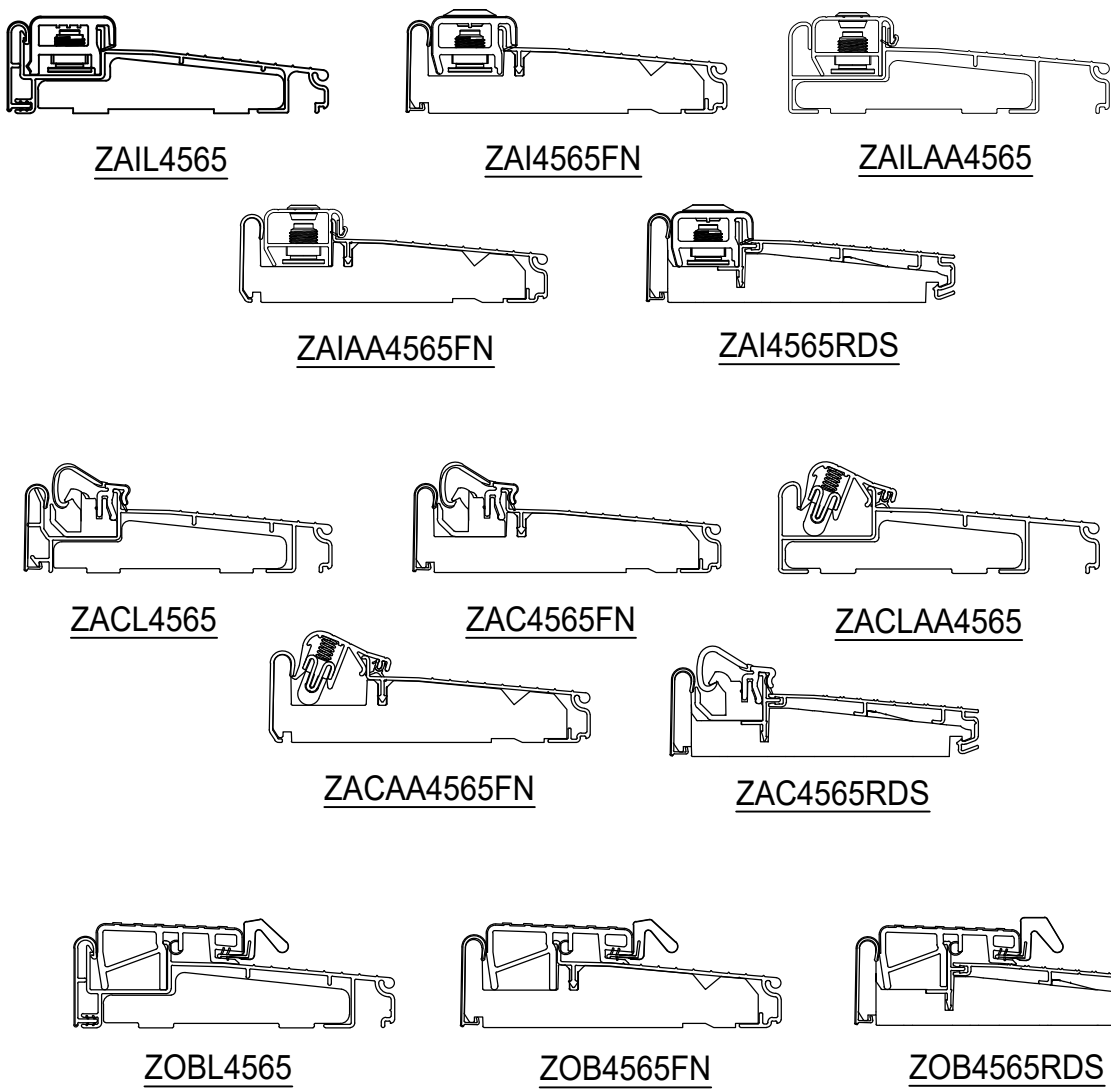
INSWING / OUTSWING

"NON-IMPACT"

GENERAL NOTES

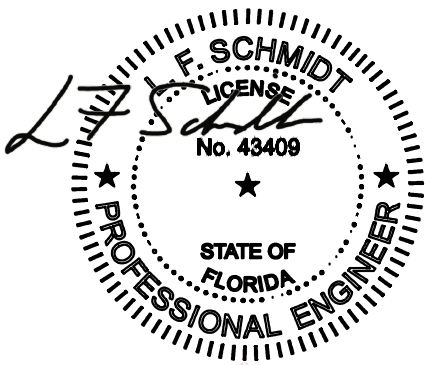
1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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



PLASTPRO GLAZED FIBERGLASS

SINGLE DOOR w/ SIDELITE(S)



Digitally signed by Lyndon F Schmidt

Date: 2026.07.17 12:02:53 -04'00'

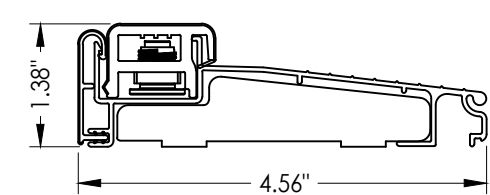
This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

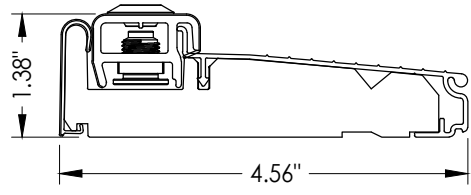
THIS PRODUCT APPROVAL IS VALID

ONLY FOR THE STATE OF FLORIDA

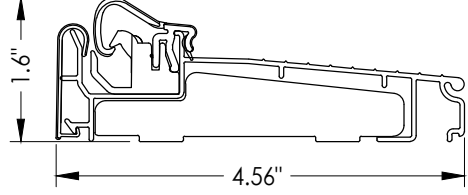
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: ENDURA		PART OR ASSEMBLY: TYPICAL ELEVATION & GENERAL NOTES	
4	7/02/26	UPDATE TO 9TH ED. (2026)	FBC LFS
3	7/06/23	UPDATE TO 8TH 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
NO. DATE		REVISIONS	
DATE: 5/26/16		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-20698.2		SHEET 1 OF 10	



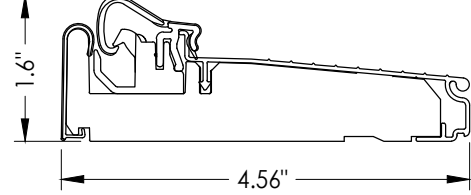
T1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



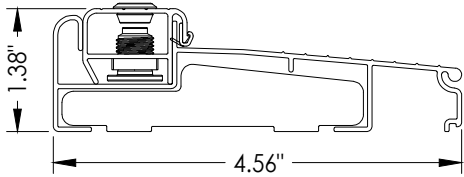
T2 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



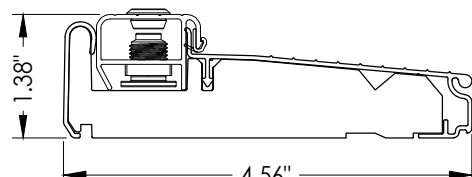
T6 INSWING ARTICULATING THRESHOLD
ZACL4565



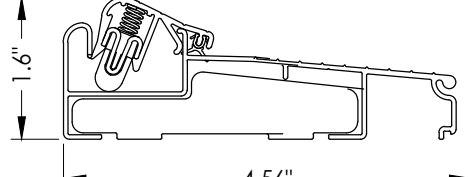
T7 INSWING ARTICULATING THRESHOLD
ZAC4565FN



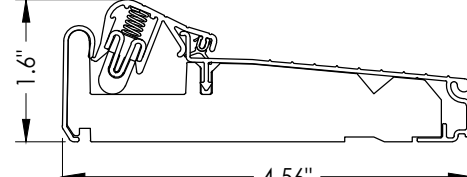
T3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



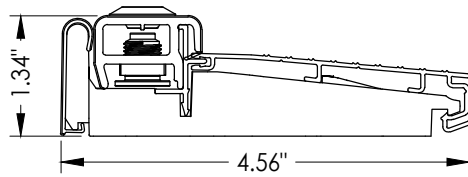
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ZAILAA4565FN



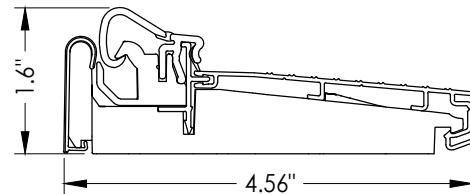
T8 INSWING ARTICULATING THRESHOLD
ZACLAA4565



T9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



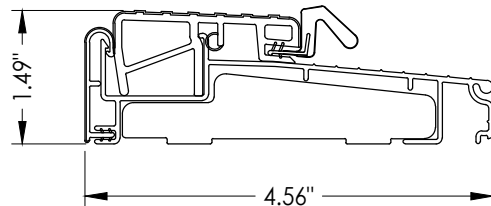
T5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS



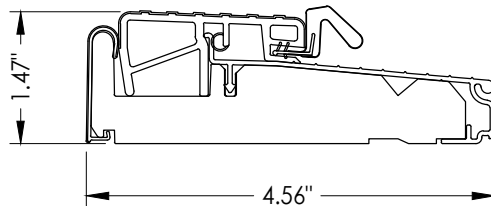
T10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

INSWING ADJUSTABLE THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO GLAZED FIBERGLASS	OX / XO	74.75" X 81.94"	+40.0	-45.0
	OXO	112.2" X 81.94"		

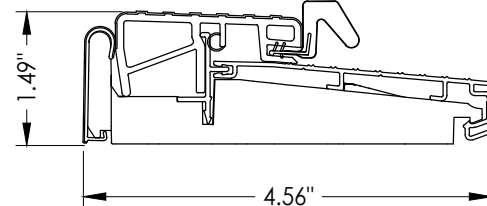
INSWING ARTICULATING THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO GLAZED FIBERGLASS	OX / XO	74.75" X 81.94"	+40.0	-45.0
	OXO	112.2" X 81.94"		



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 GLAZED FIBERGLASS	OX / XO	74.75" X 81.13"	+45.0	-50.0
	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

PRODUCT: ENDURA

RW BUILDING CONSULTANTS, INC.

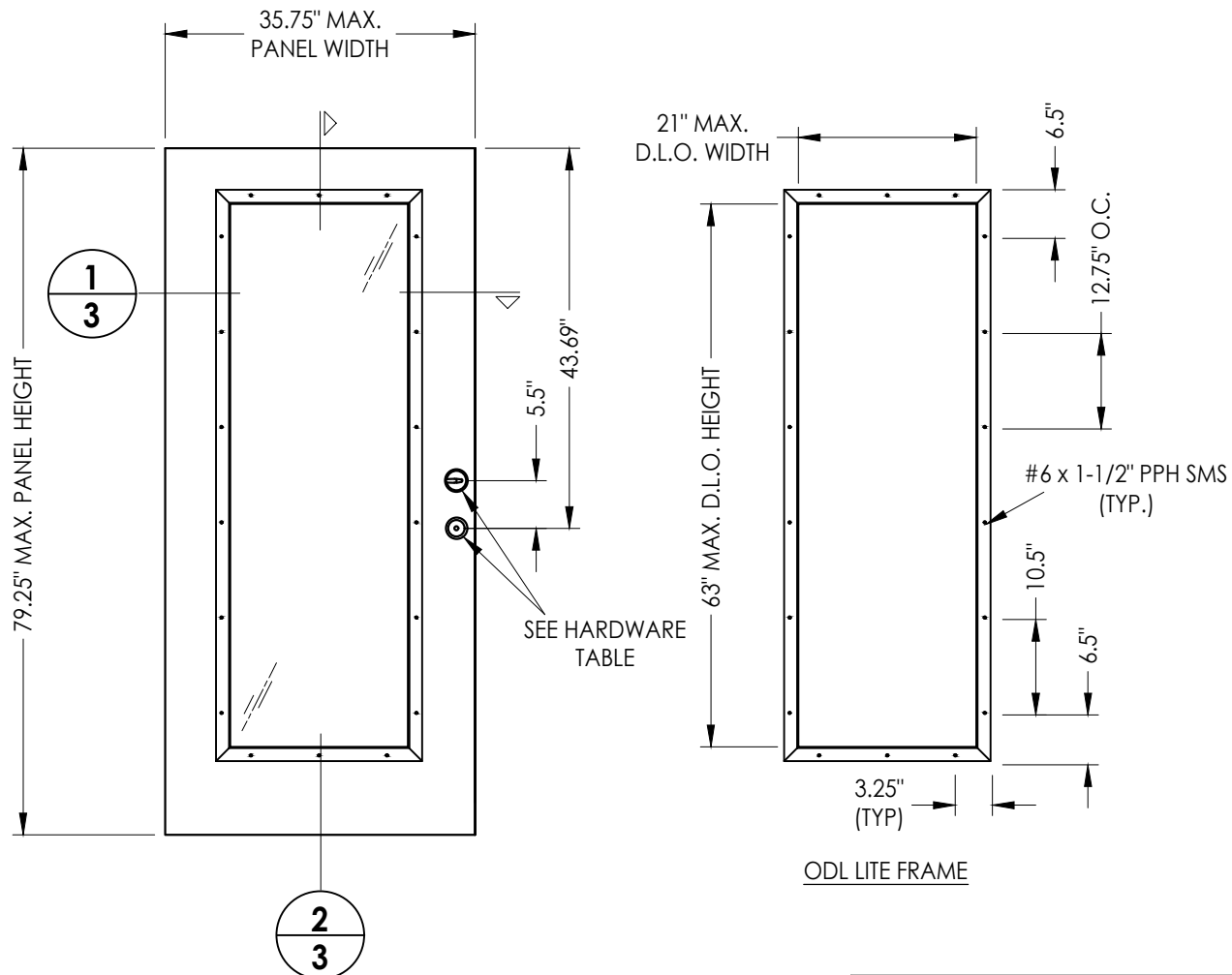
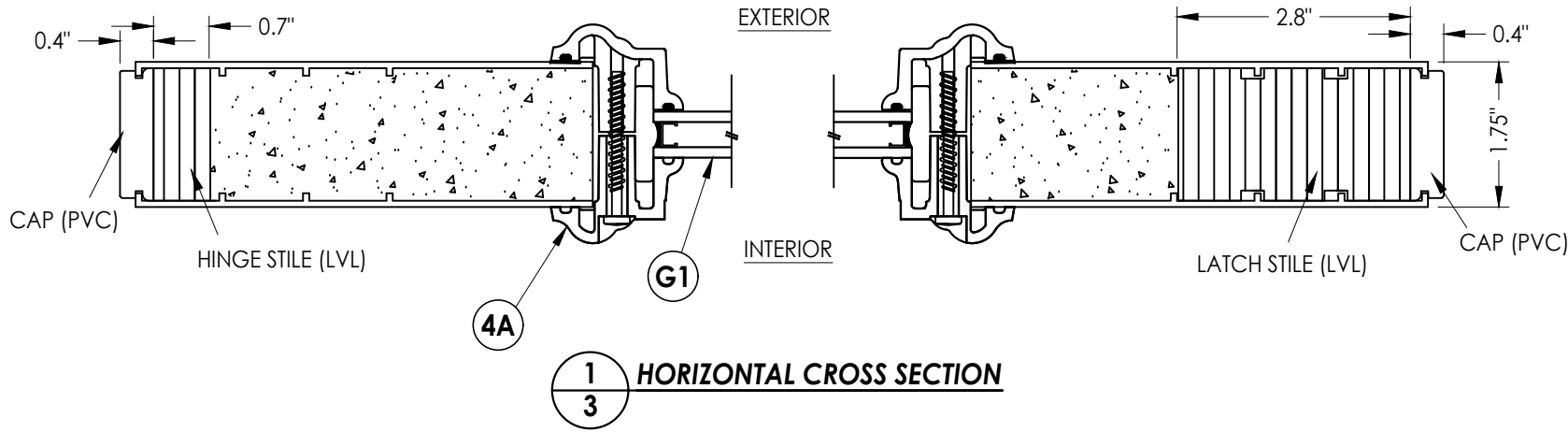
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
Z SERIES THRESHOLD DETAILS
& DESIGN PRESSURES

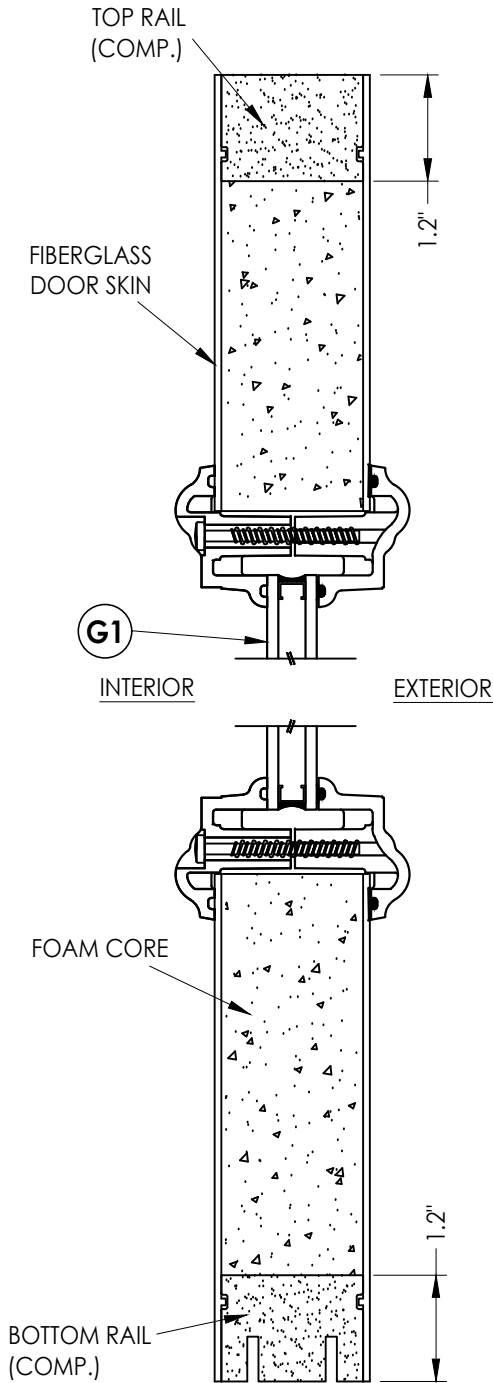
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3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/06/20	UPDATE TO 7TH ED. (2020) FBC DAC
1	9/07/17	UPDATE TO 6TH ED. (2017) FBC LFS

DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20698.2
SHEET	2 OF 10

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



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

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20698.2

SHEET 3 OF 10

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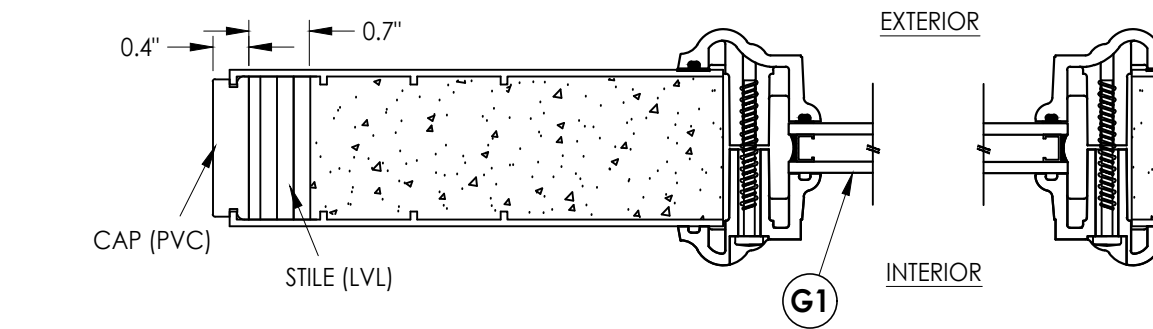
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

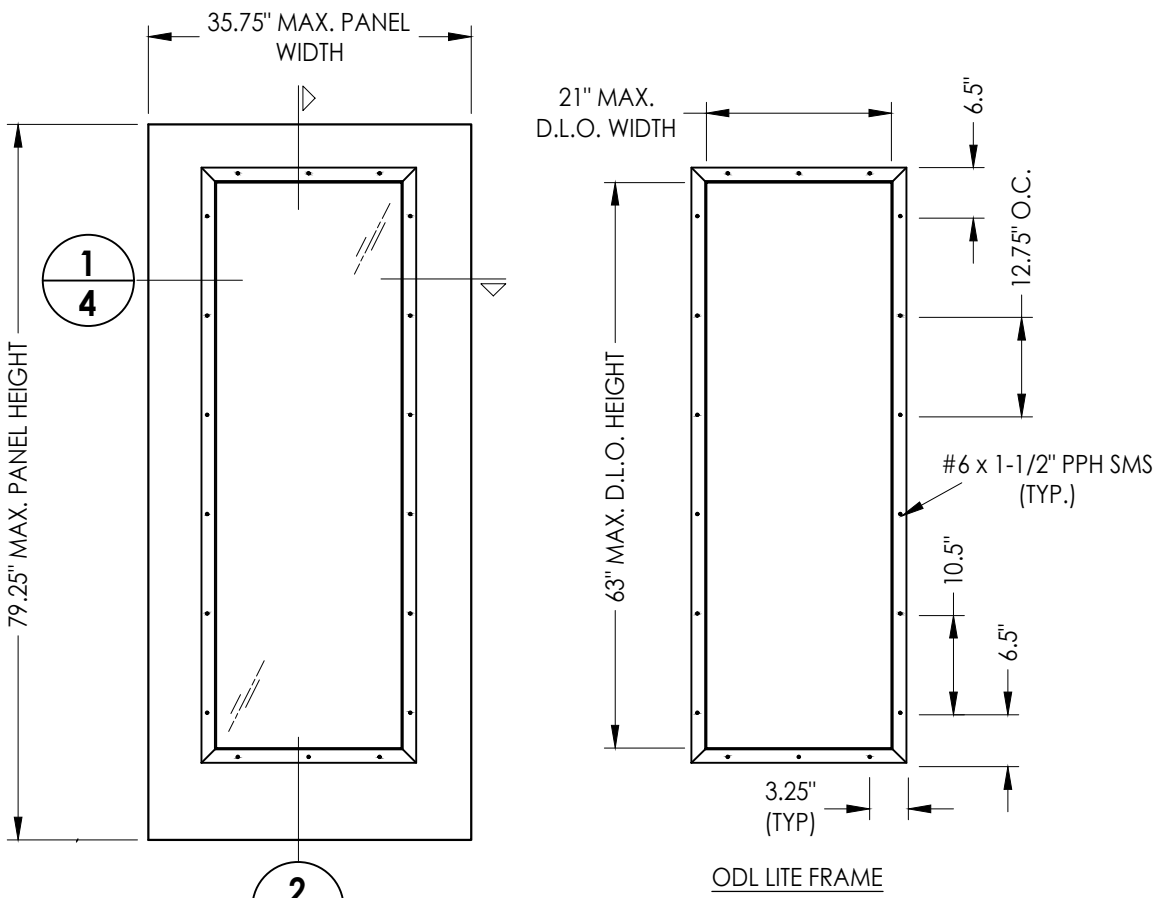
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DOOR PANEL DETAILS

NO.	DATE	REVISIONS			
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3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	8/06/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
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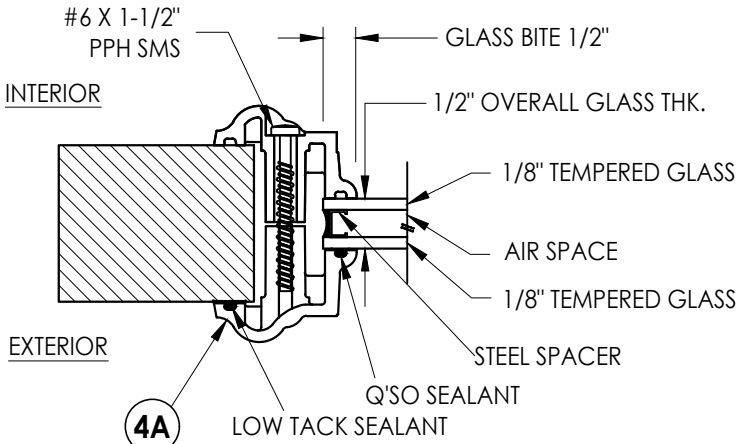


1
4 HORIZONTAL CROSS SECTION

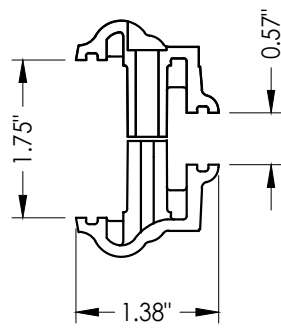


50 SIDELITE PANEL
Plastpro
Fiberglass

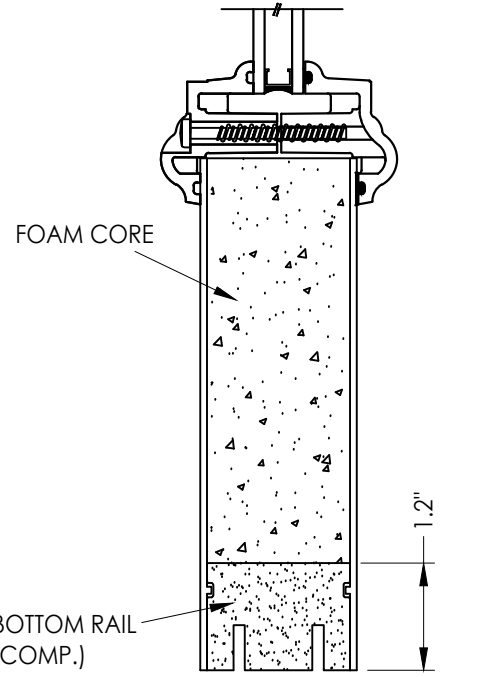
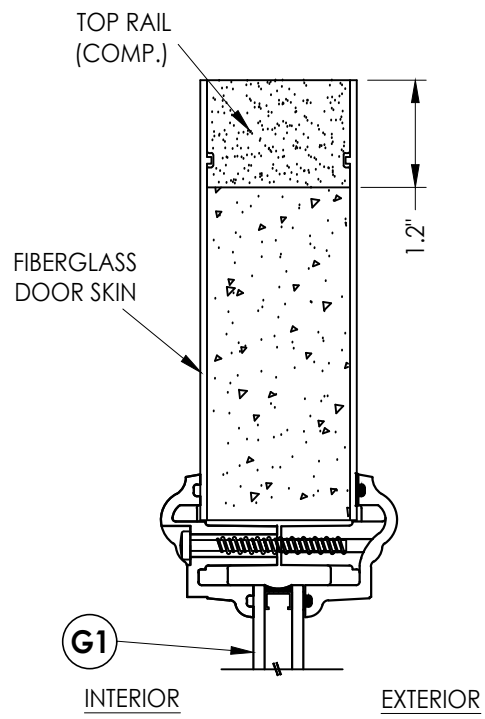
SIDELITE PANEL SKIN: FIBERGLASS (0.075" MIN. THICKNESS)
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)



G1 GLAZING DETAIL



4A ODL LITE FRAME
HP Polypropylene



2
4 VERTICAL CROSS SECTION

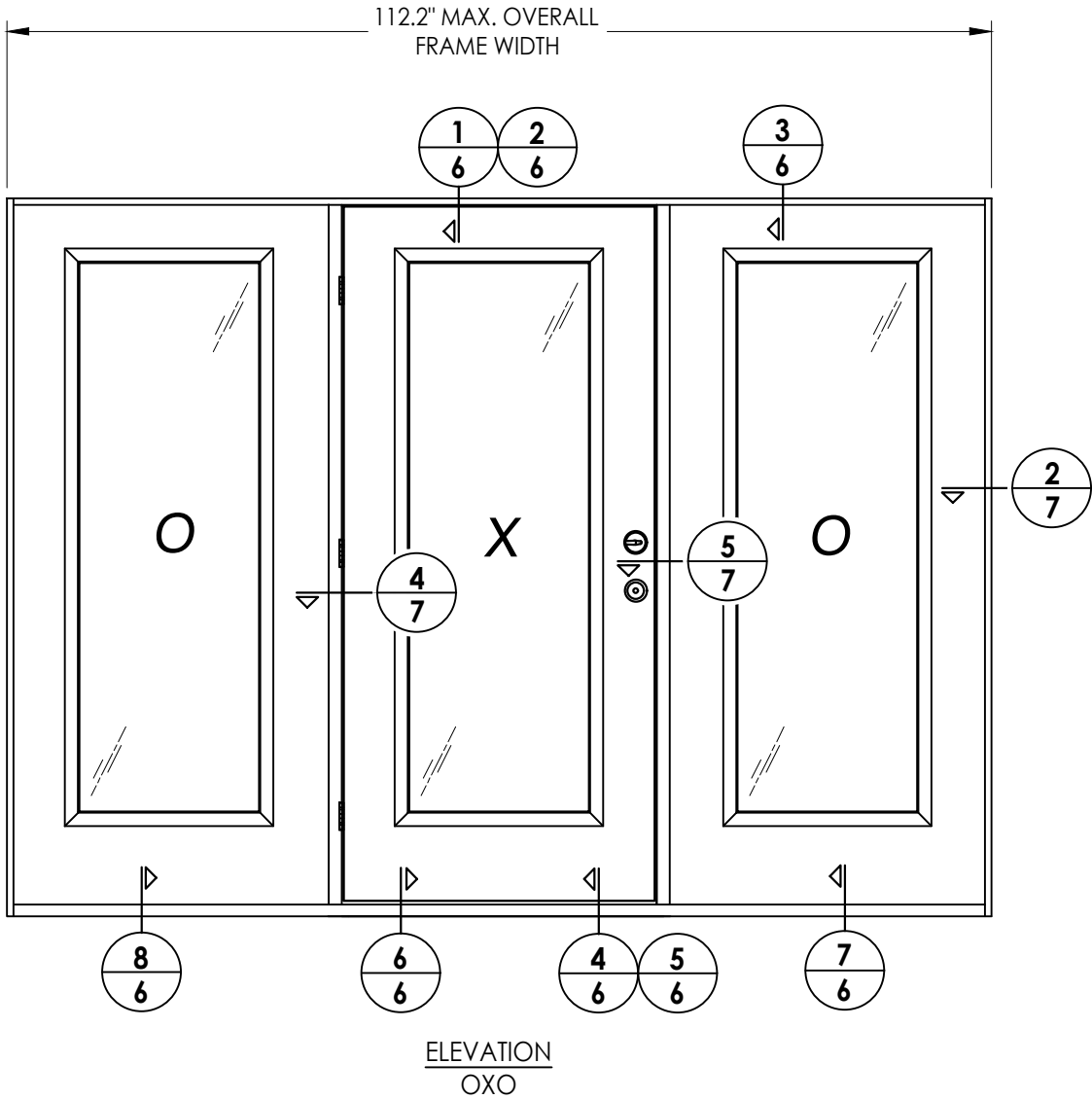
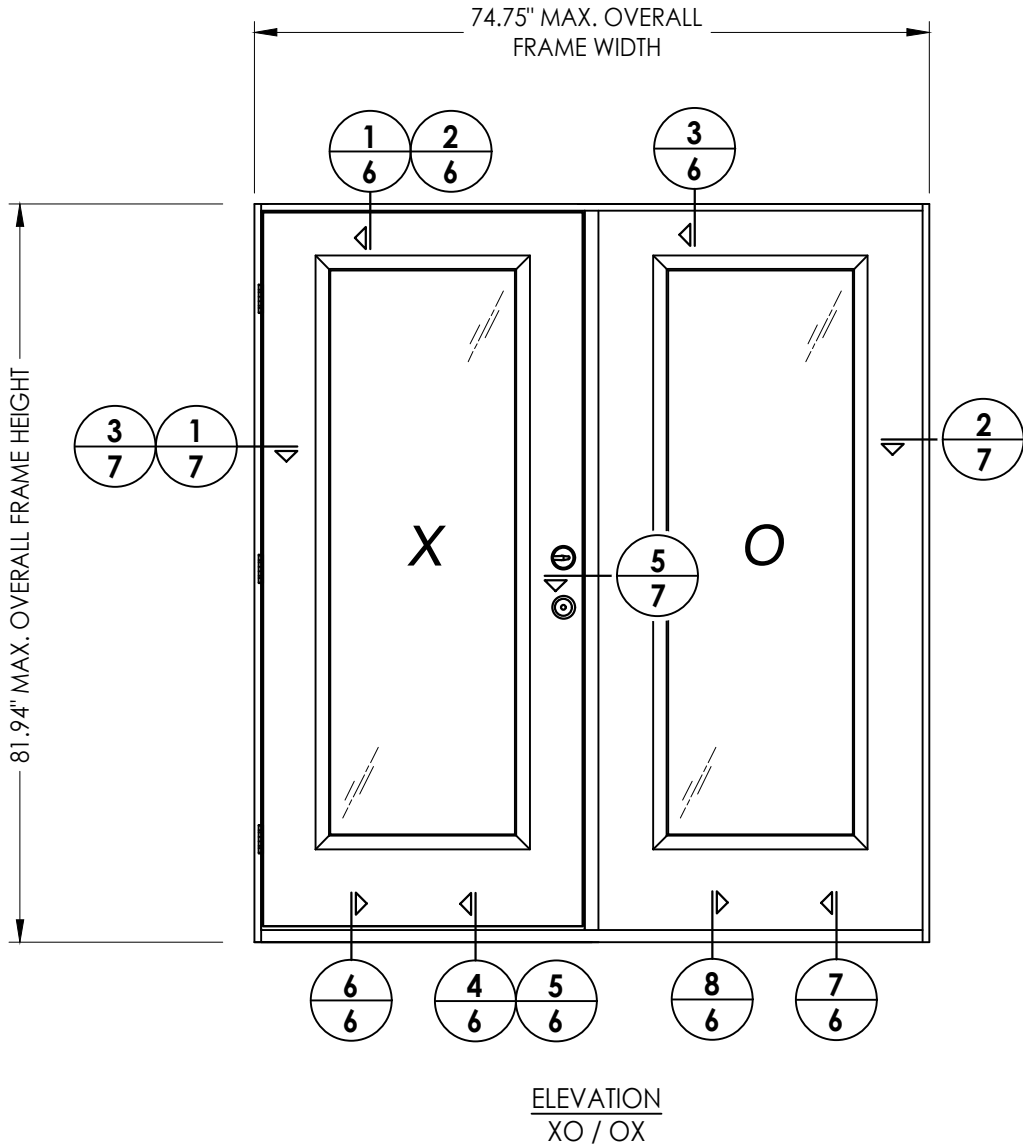
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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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:	SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
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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-20698.2
SHEET	4 OF 10



DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20698.2
SHEET	5 OF 10

NO.	DATE	REVISIONS
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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:	ELEVATIONS

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



Diagram illustrating a vertical cross section of a door assembly. The diagram shows the interior and exterior views of the door frame and the door itself. Key components labeled include:

- INTERIOR** and **EXTERIOR** labels indicating the orientation.
- T11**, **T12**, and **T13** labels pointing to the door frame components.
- M** label pointing to the door handle or latch mechanism.
- 50** label pointing to the door panel.
- T15** label pointing to the door frame component.
- D** label pointing to the door panel.
- 8** label pointing to the door panel.
- SEE NOTE 1** text.
- 1-1/4" MIN. EMB. (TYP.)** label indicating the minimum embedding depth.

8 VERTICAL CROSS SECTION

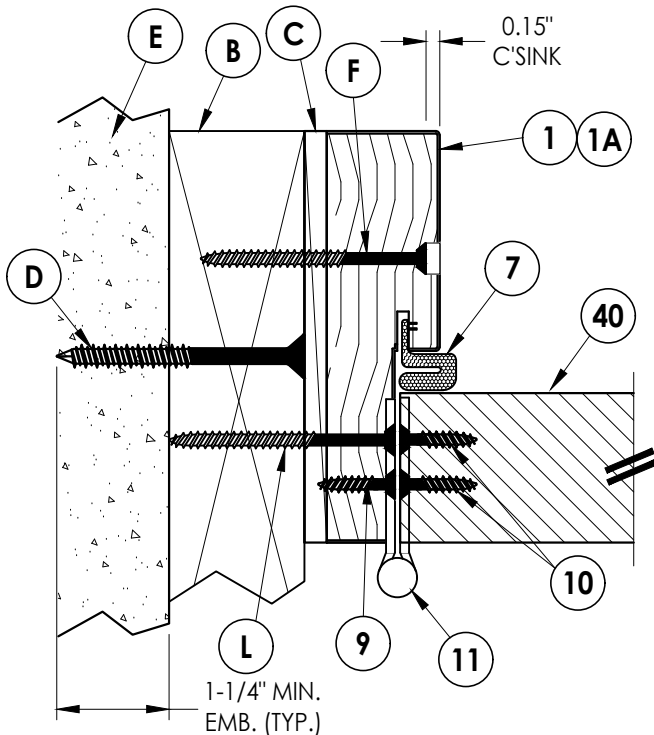


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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20698.2
SHEET	6 OF 10

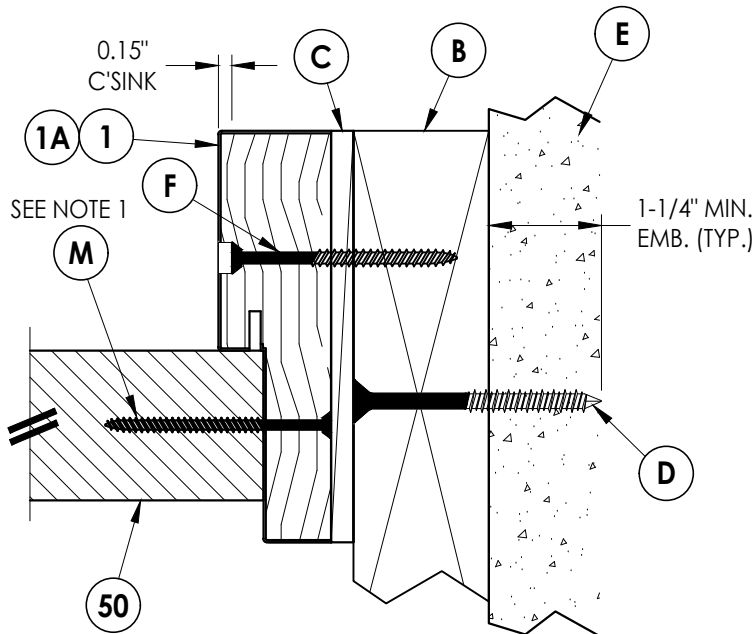
ASSEMBLY:
**VERTICAL CROSS
SECTIONS**

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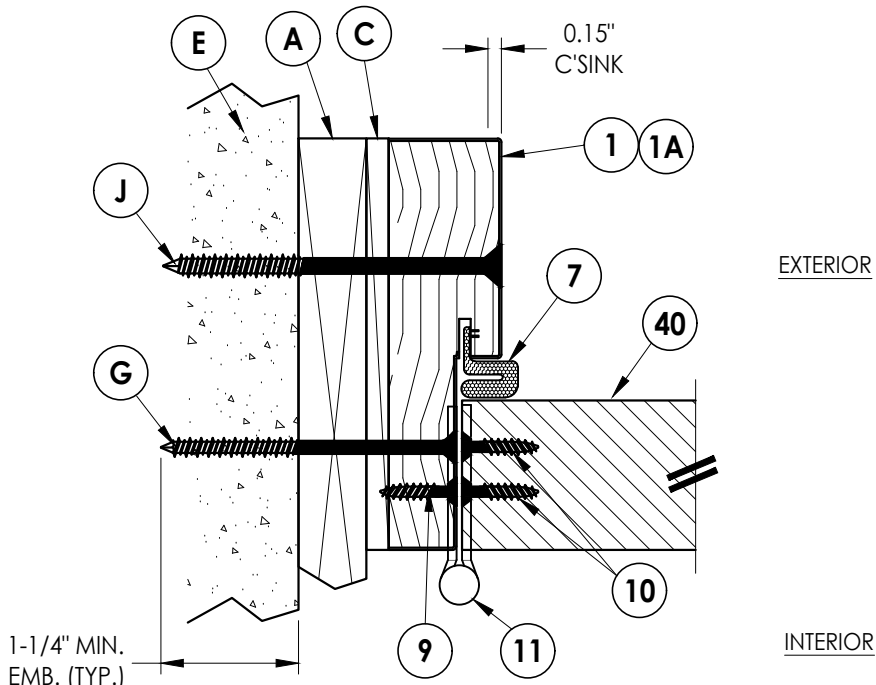


1
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

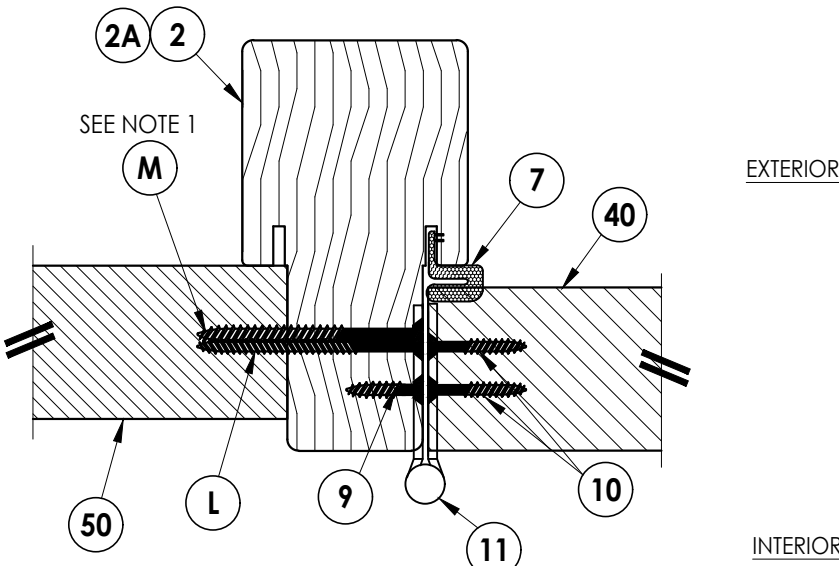


2
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

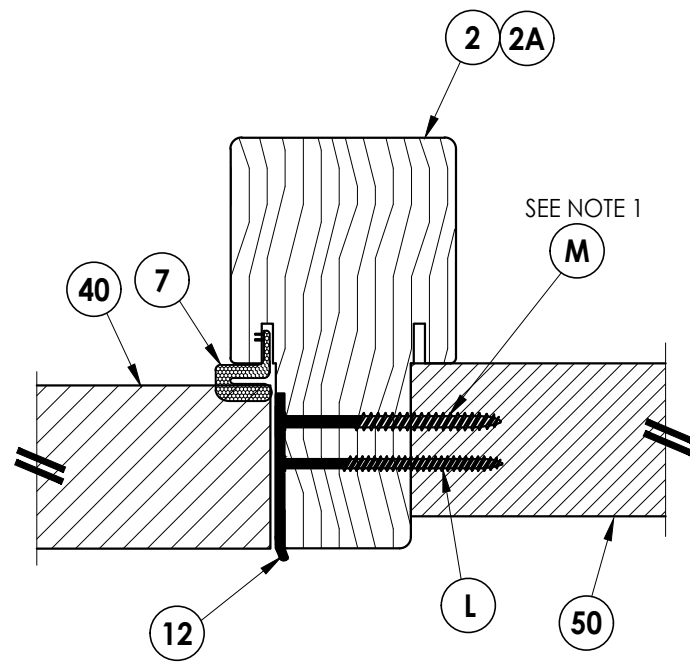
NOTE:
1. Spacing for sidelite screws (item M): 6.5", 38.5"
and 69" from head to sill (3 total).



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:
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:
HORIZONTAL CROSS
SECTIONS

NO.	DATE	REVISIONS				
		BY	LFS	FBC	FBC	FBC
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.

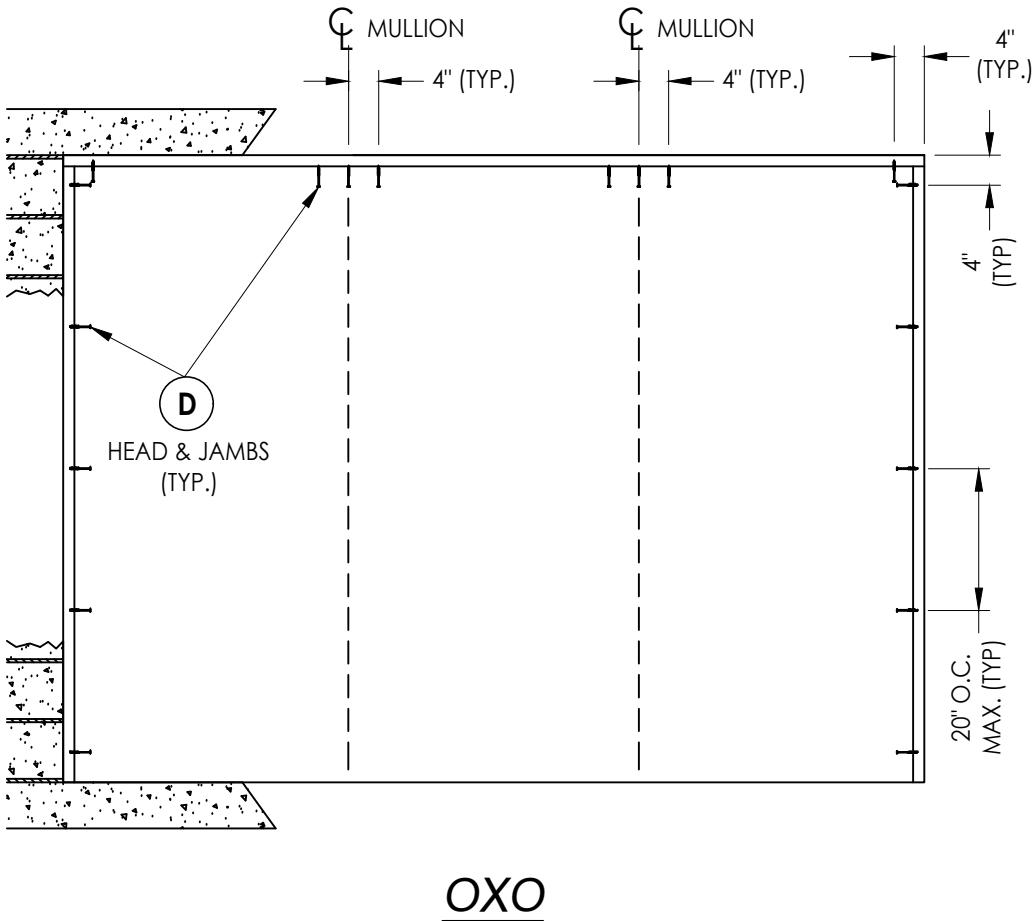
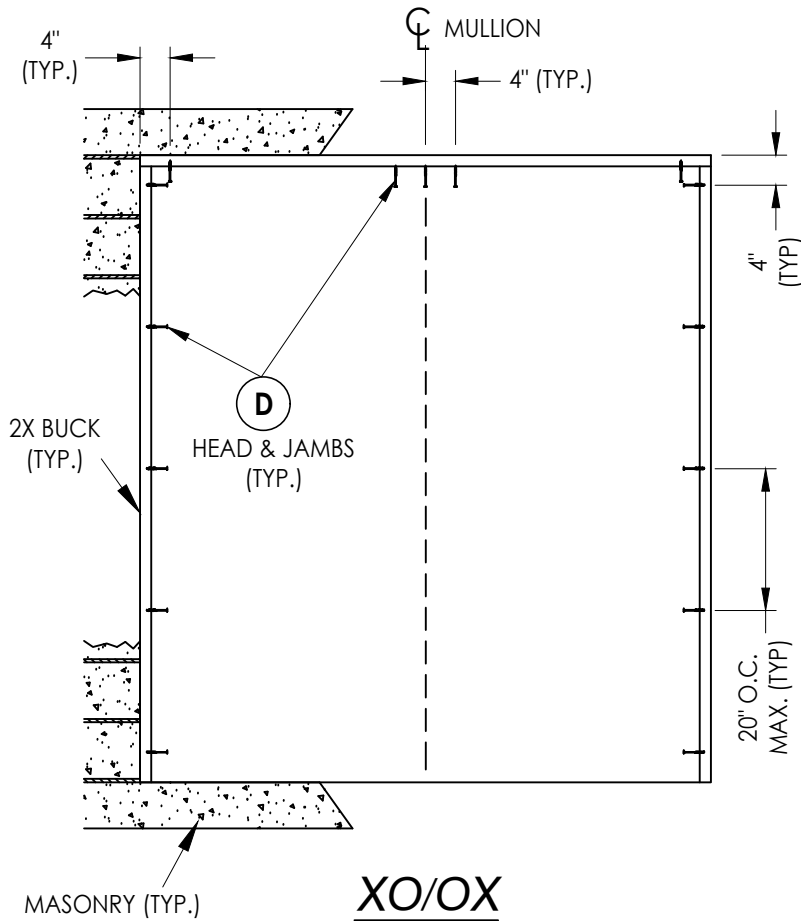
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20698.2

SHEET 7 OF 10



2X BUCK ANCHORING

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-20698.2

SHEET 8 OF 10

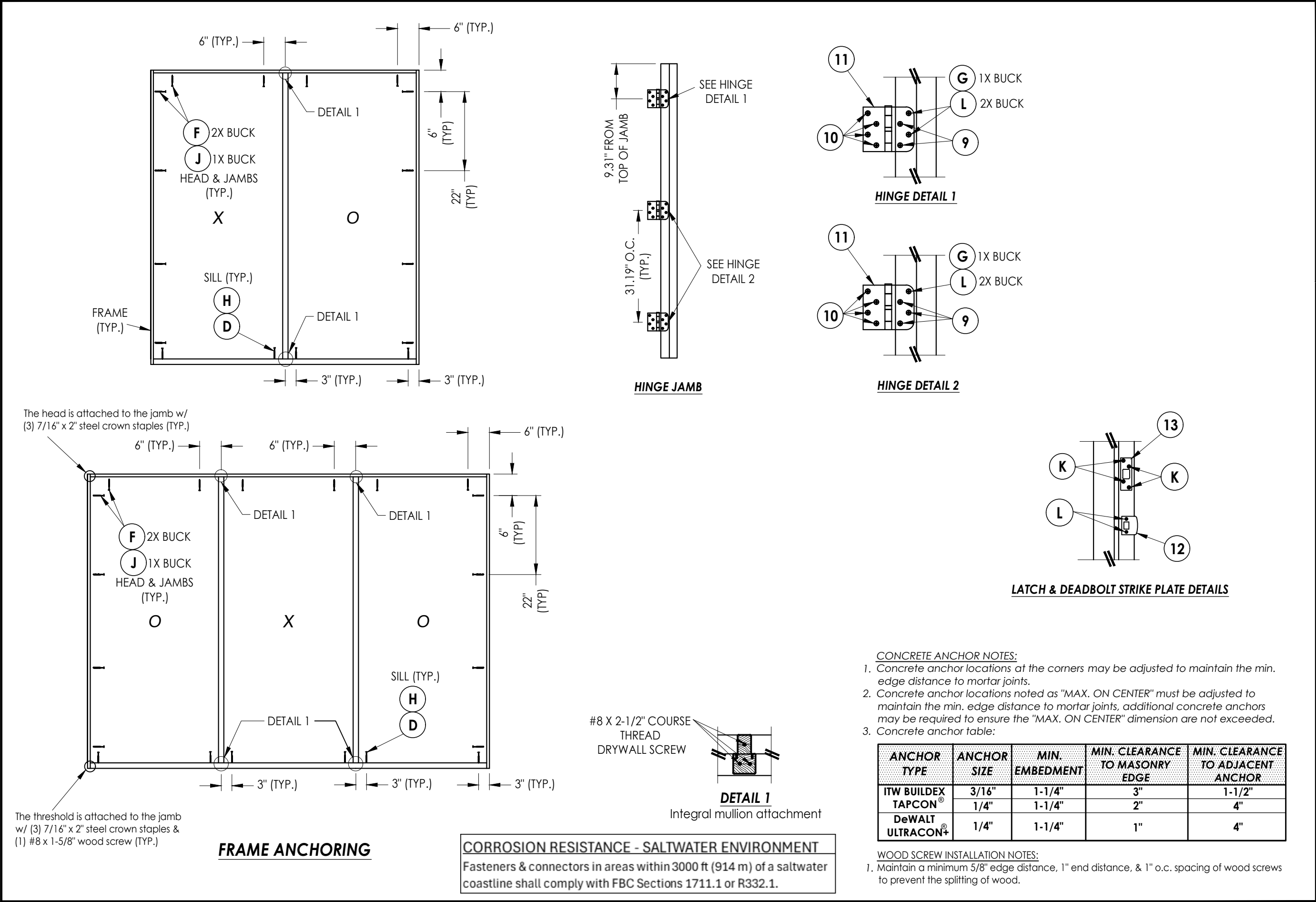
PRODUCT:		ENDURA
PART OR ASSEMBLY:		BUCK ANCHORING

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

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

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

ENDURA

Part or Assembly:
FRAME ANCHORING
& HARDWARE DETAILS

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20698.2

SHEET 9 of 10

REVISIONS

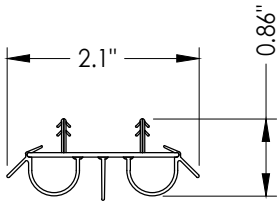
NO.	DATE	BY
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3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/06/20	UPDATE TO 7TH ED. (2020) FBC DAC
1	9/07/17	UPDATE TO 6TH ED. (2017) FBC LFS

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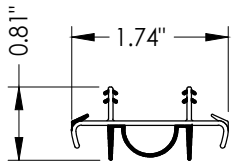
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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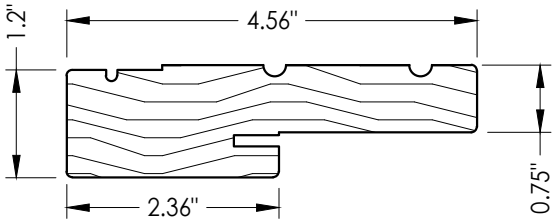
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
H	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	#10 X 3" PFH WOOD SCREW	STEEL
L	#8 X 2-1/2" PFH WOOD SCREW	STEEL
M	#8 X 2-1/2" PFH COURSE THREAD DRYWALL SCREW	STEEL
P	#10 X 1-3/4" PFH WOOD SCREW	STEEL
T1	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
T2	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
T3	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
T4	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
T5	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
T6	INSWING ARTICULATING THRESHOLD	ALUM/COMP
T7	INSWING ARTICULATING THRESHOLD	ALUM/COMP
T8	INSWING ARTICULATING THRESHOLD	ALUM/COMP
T9	INSWING ARTICULATING THRESHOLD	ALUM/COMP
T10	INSWING ARTICULATING THRESHOLD	ALUM/COMP
T11	OUTSWING THRESHOLD	ALUM/COMP
T12	OUTSWING THRESHOLD	ALUM/COMP
T13	OUTSWING THRESHOLD	ALUM/COMP
T14	INSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
T15	OUTSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
1	FINGER JOINT PINE JAMB (G >= 0.42)	WOOD
1A	FINGER JOINTED PINE JAMB (SG >= 0.42) (FrameSaver)	WOOD/COMP
2	INTEGRAL MULLION (ENDURA FATBOY - PINE, G >= 0.42)	WOOD
2A	INTEGRAL MULLION (SG >= 0.42) (FrameSaver)	WOOD/COMP
7	WEATHERSTRIP (ENDURA)	FOAM
8	DOOR BOTTOM SWEEP	VINYL
8A	ARTICULATING SWEEP	VINYL
9	#8 X 3/4" PFH WOOD SCREW	STEEL
10	#8 X 1" PFH WOOD SCREW	STEEL
11	4" X 4" BUTT HINGE	STEEL
12	LATCH STRIKE PLATE	STEEL
13	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-



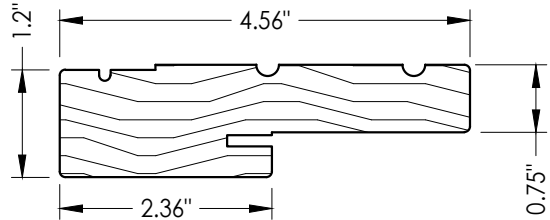
8 SWEEP



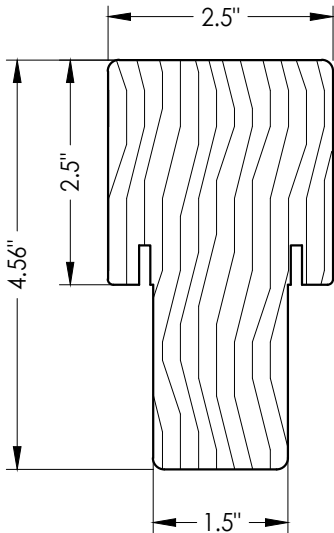
8A ARTICULATING SWEEP



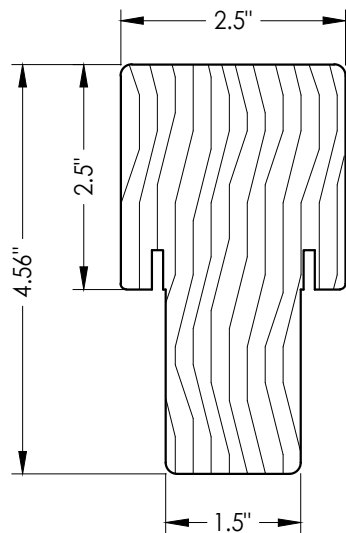
1 WOOD JAMB



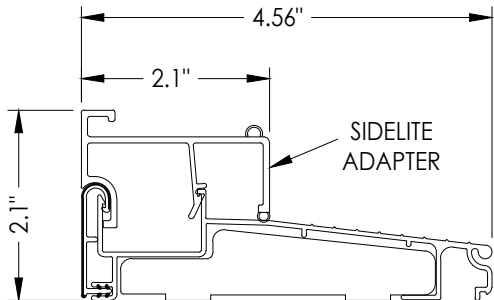
1A WOOD JAMB
FrameSaver (Endura)



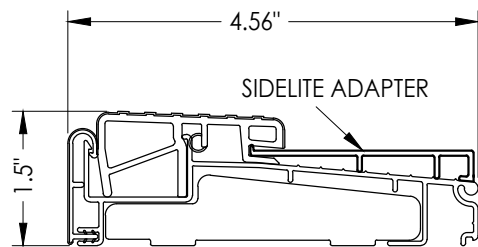
2 INTEGRAL MULLION



2A INTEGRAL MULLION
FrameSaver (Endura)



T14 INSWING THRESHOLD w/ SIDELITE ADAPTER
Endura (Z-Series)



T15 OUTSWING THRESHOLD w/ SIDELITE ADAPTER
Endura (Z-Series)

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
ENDURA

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

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-20698.2

SHEET 10 OF 10