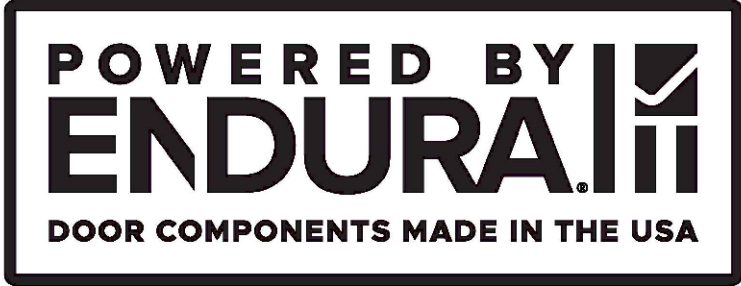


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Z SERIES THRESHOLDS

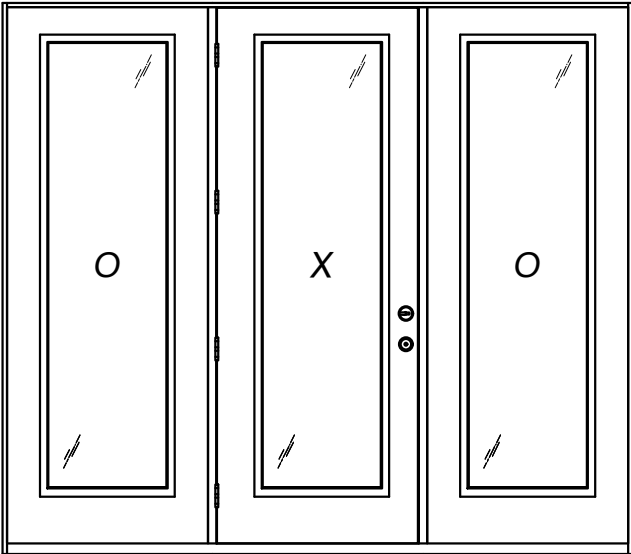
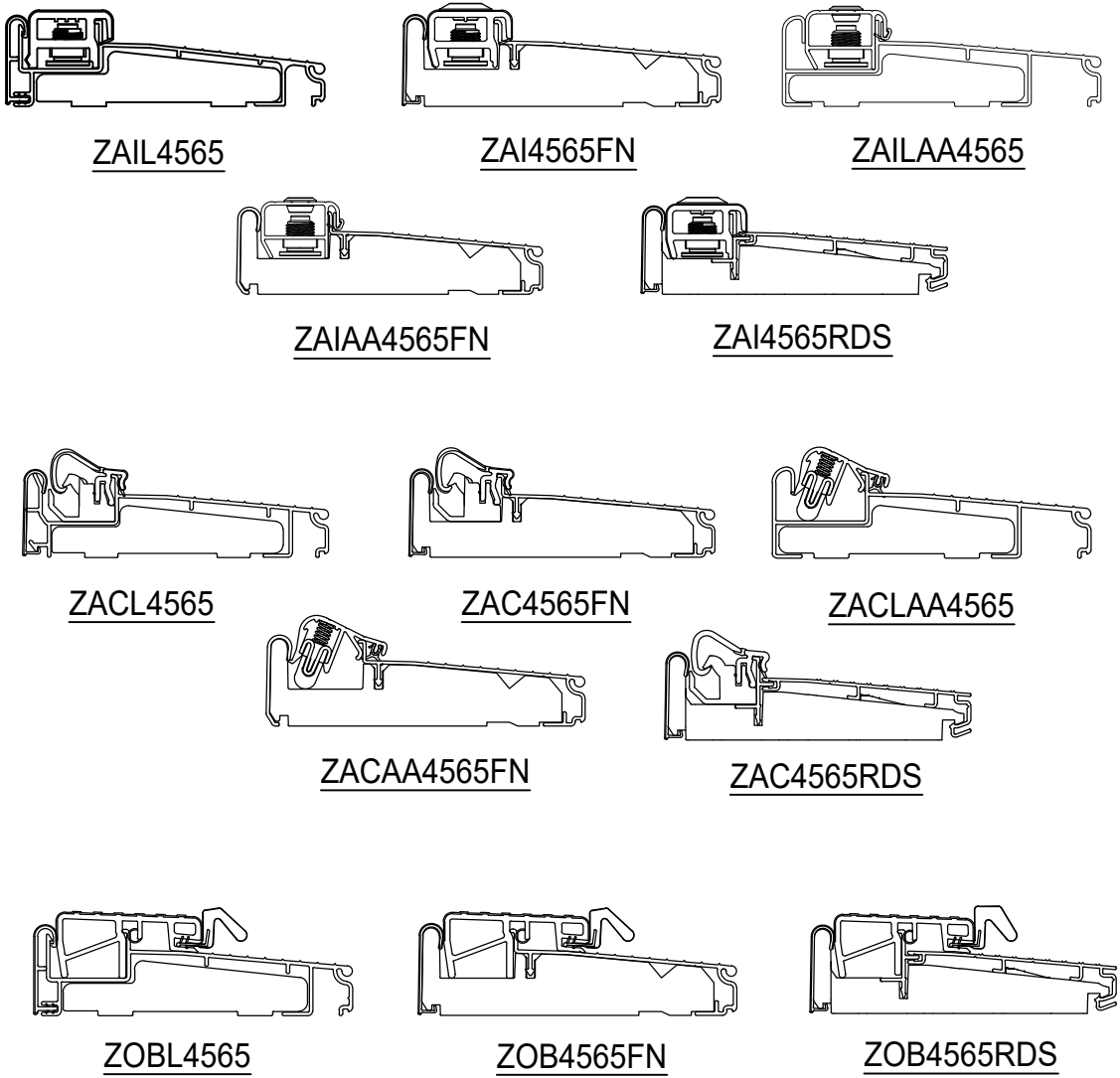
CONTINUOUS HEAD & SILL
FRAME SYSTEM

INSWING / OUTSWING
"NON-IMPACT"

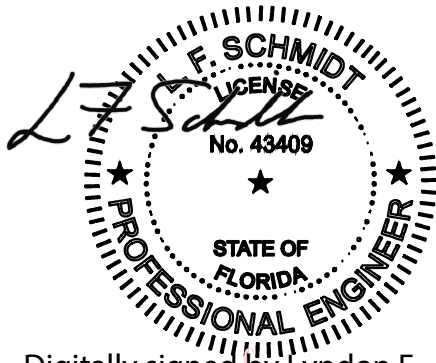
GENERAL NOTES

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



MASONITE GLAZED FIBERGLASS
SINGLE DOOR w/ SIDELITE(S)



Digitally signed by Lyndon F Schmidt
Date: 2026.07.17 12:10:41 -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

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			BY

REVISIONS

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

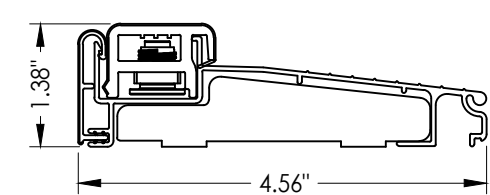
DRAWING NO.: FL-20698.12

SHEET 1 OF 10

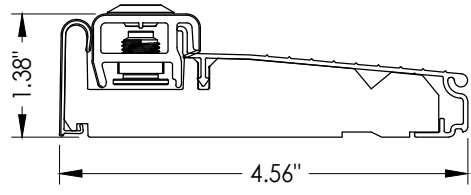
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Building Consultants, Inc.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

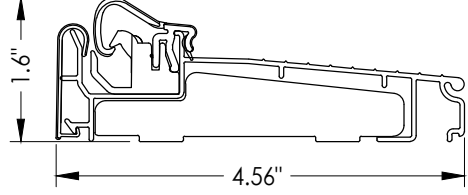
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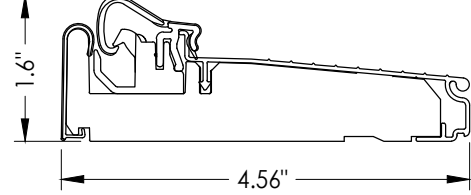
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ZAIL4565



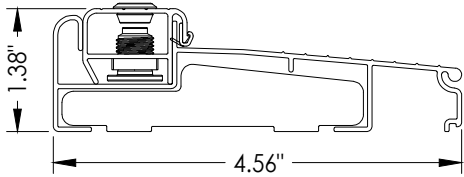
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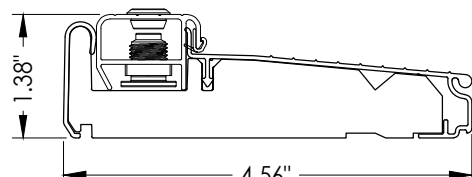
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ZACL4565



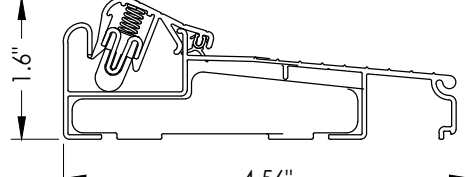
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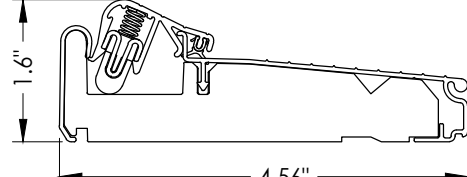
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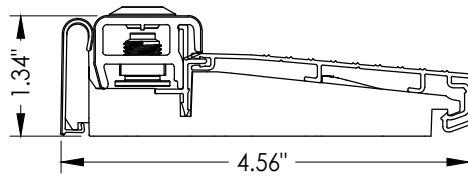
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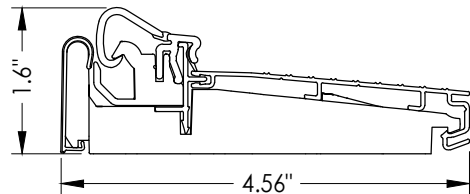
T8 INSWING ARTICULATING THRESHOLD
ZAC4565FN



T9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



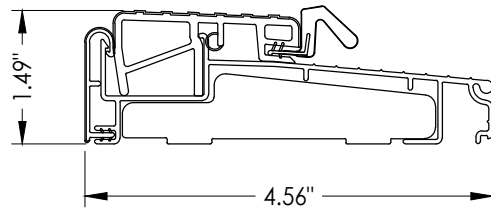
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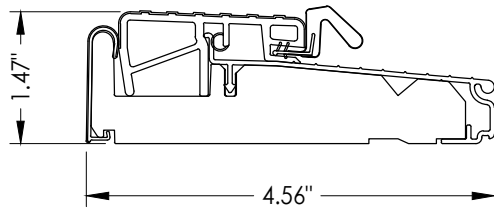
T10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

INSWING ADJUSTABLE THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE GLAZED FIBERGLASS	OX / XO	74.75" X 97.94"	+35.0	-35.0
	OXO	112.2" X 97.94"		

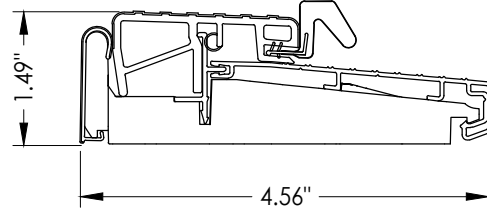
INSWING ARTICULATING THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE GLAZED FIBERGLASS	OX / XO	74.75" X 97.94"	+35.0	-35.0
	OXO	112.2" X 97.94"		



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
MASONITE GLAZED FIBERGLASS	OX / XO	74.75" X 97.13"	+35.0	-40.0
	OXO	112.2" X 97.13"		

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			
		BY	DATE	DESCRIPTION	REVISIONS
4	7/02/26	LFS	FBC	UPDATE TO 9TH ED. (2026)	
3	7/06/23	LFS	FBC	UPDATE TO 8TH ED. (2023)	
2	8/06/20	DAC	FBC	UPDATE TO 7TH ED. (2020)	
1	9/07/17	LFS	FBC	UPDATE TO 6TH ED. (2017)	

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

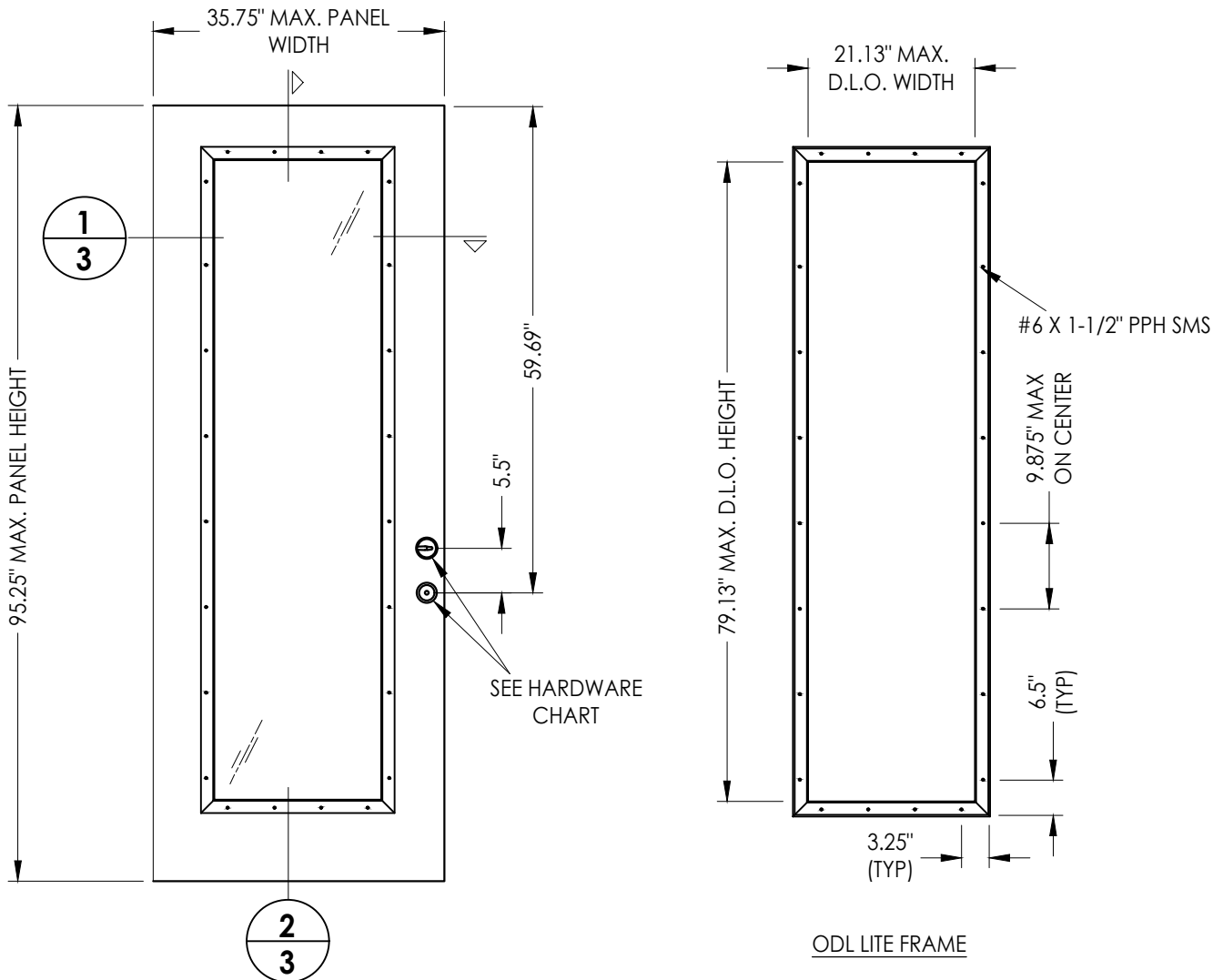
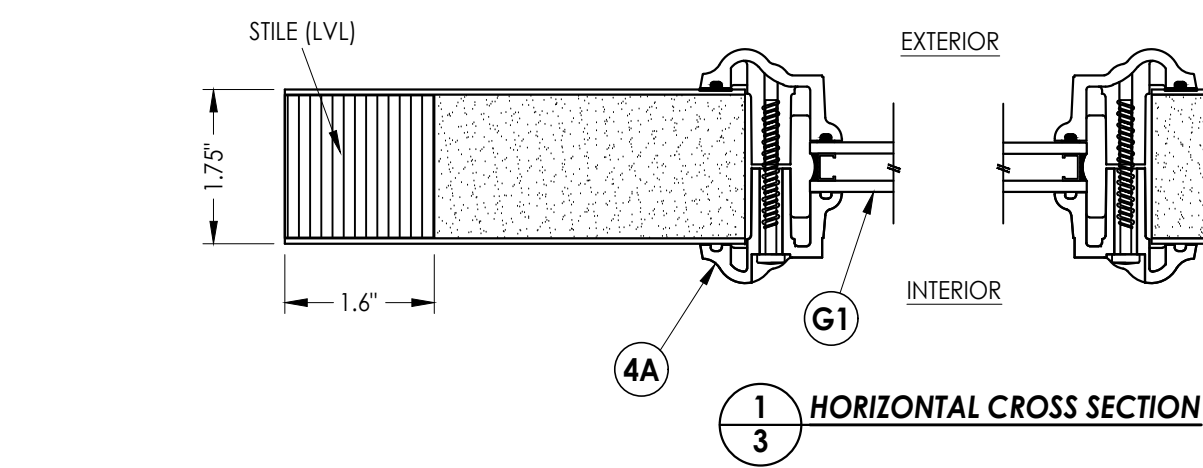
CHK. BY: LFS

DRAWING NO.:

FL-20698.12

SHEET 2 OF 10

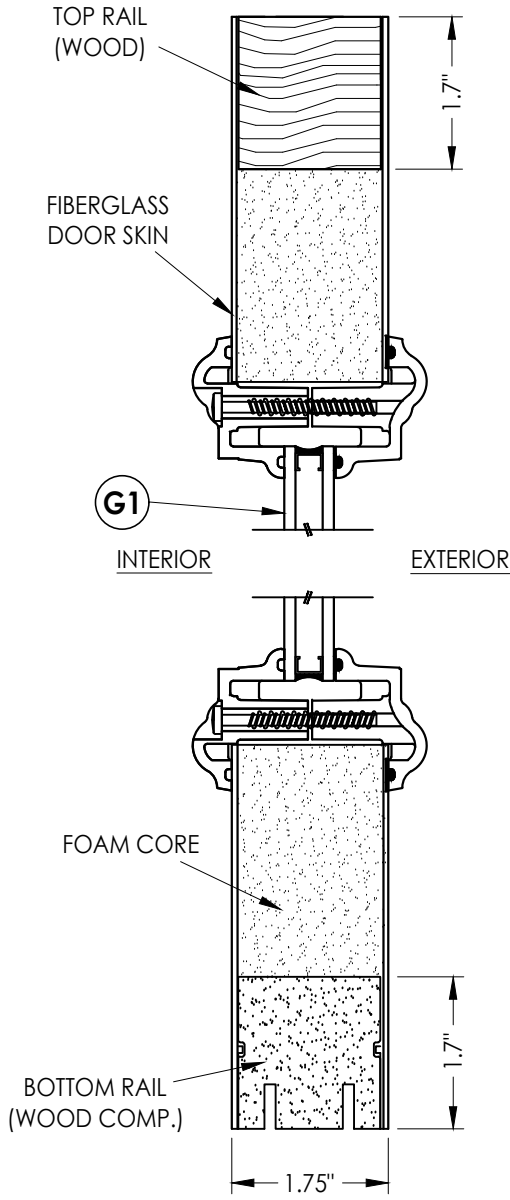
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40 DOOR PANEL
Masonite
Fiberglass

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)



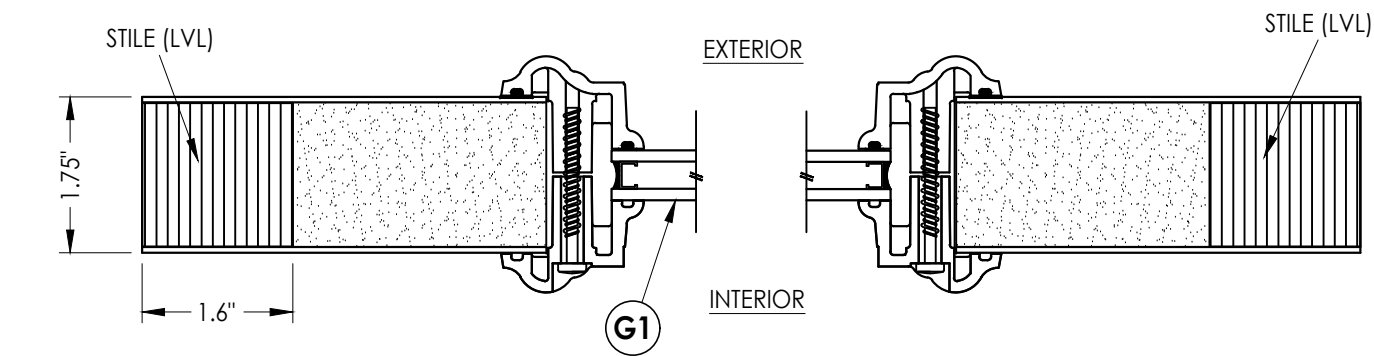
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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FBPE Registry No. 9813

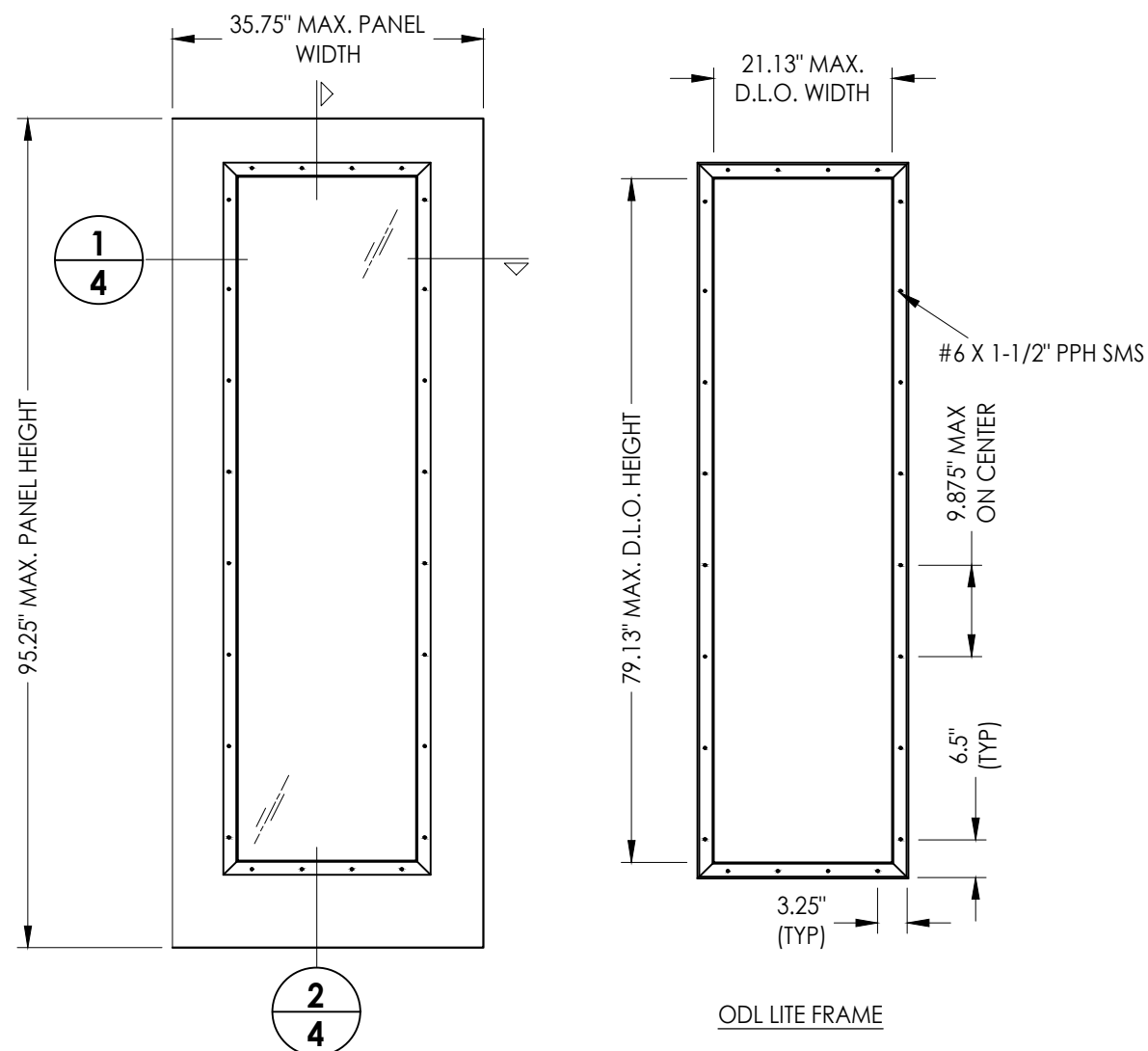
PRODUCT:	ENDURA	
	PART OR ASSEMBLY:	DOOR PANEL DETAILS

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
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-20698.12
SHEET	3 OF 10

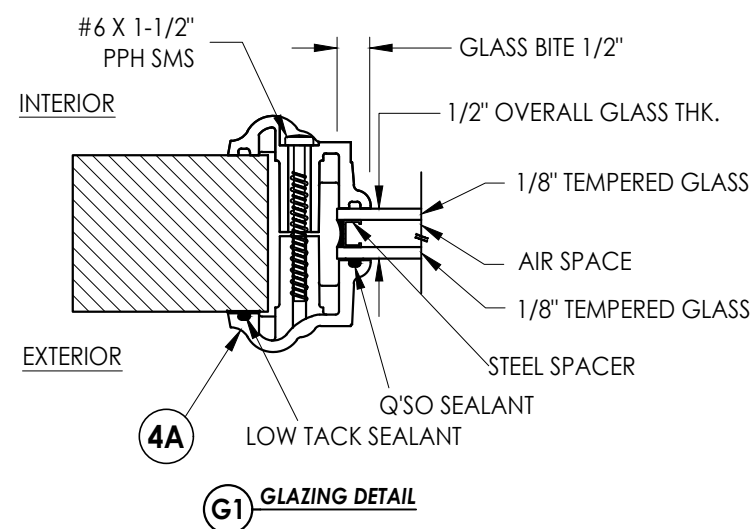


1 **HORIZONTAL CROSS SECTION**
4

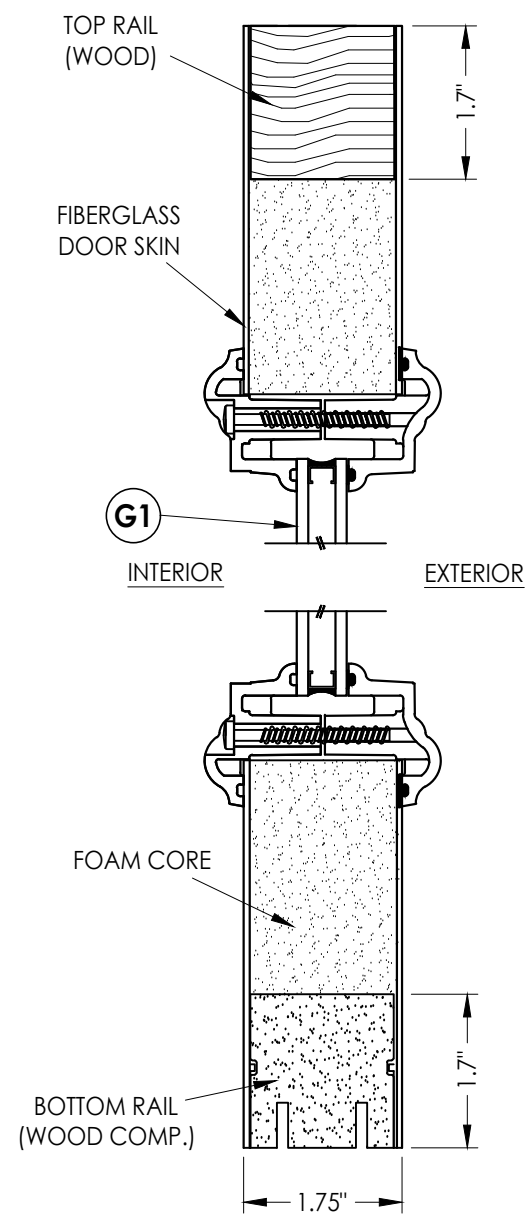


50 **SIDELITE PANEL**
Masonite
Fiberglass

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



4A ODL LITE FRAME
HP Polypropylene

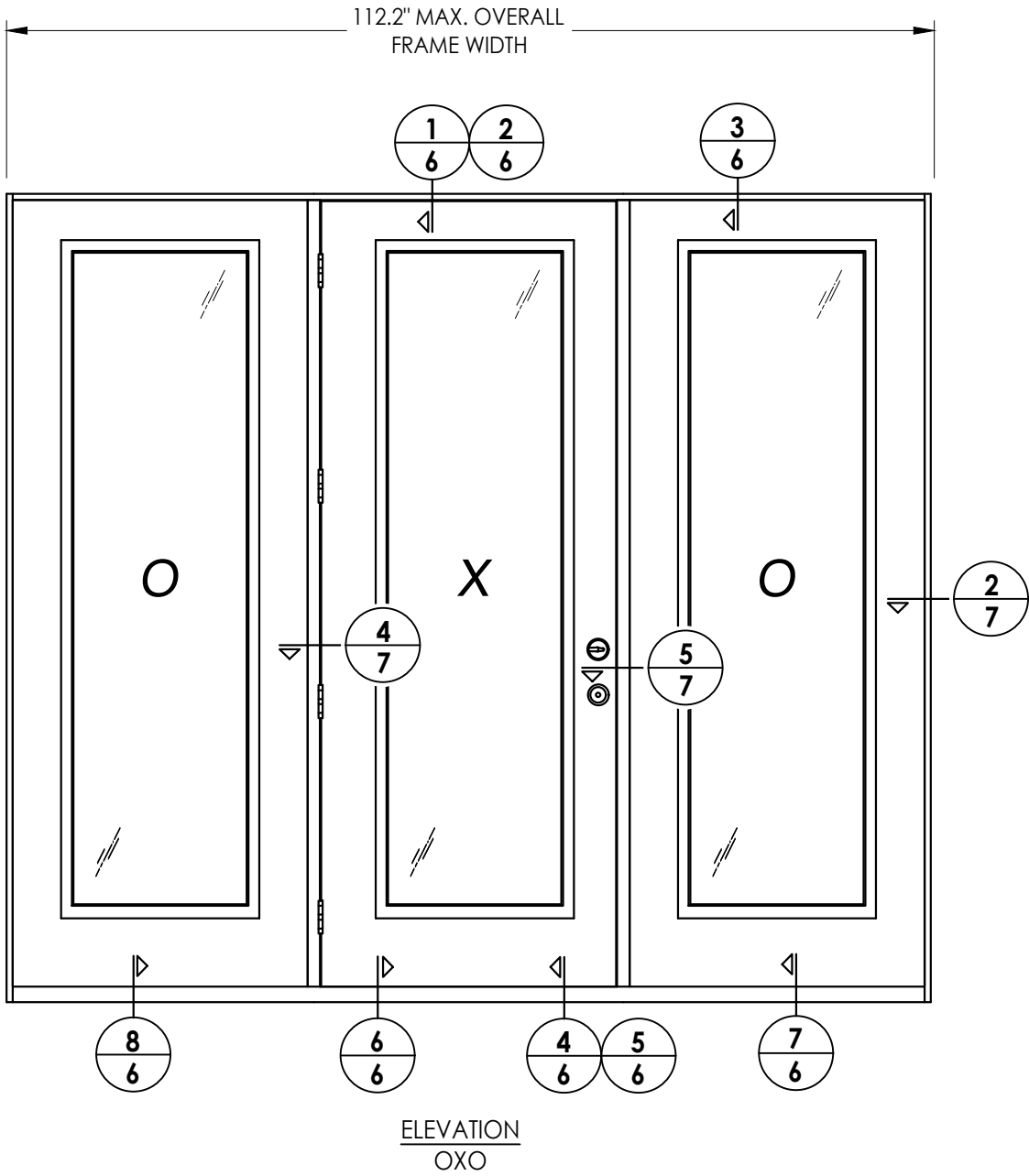
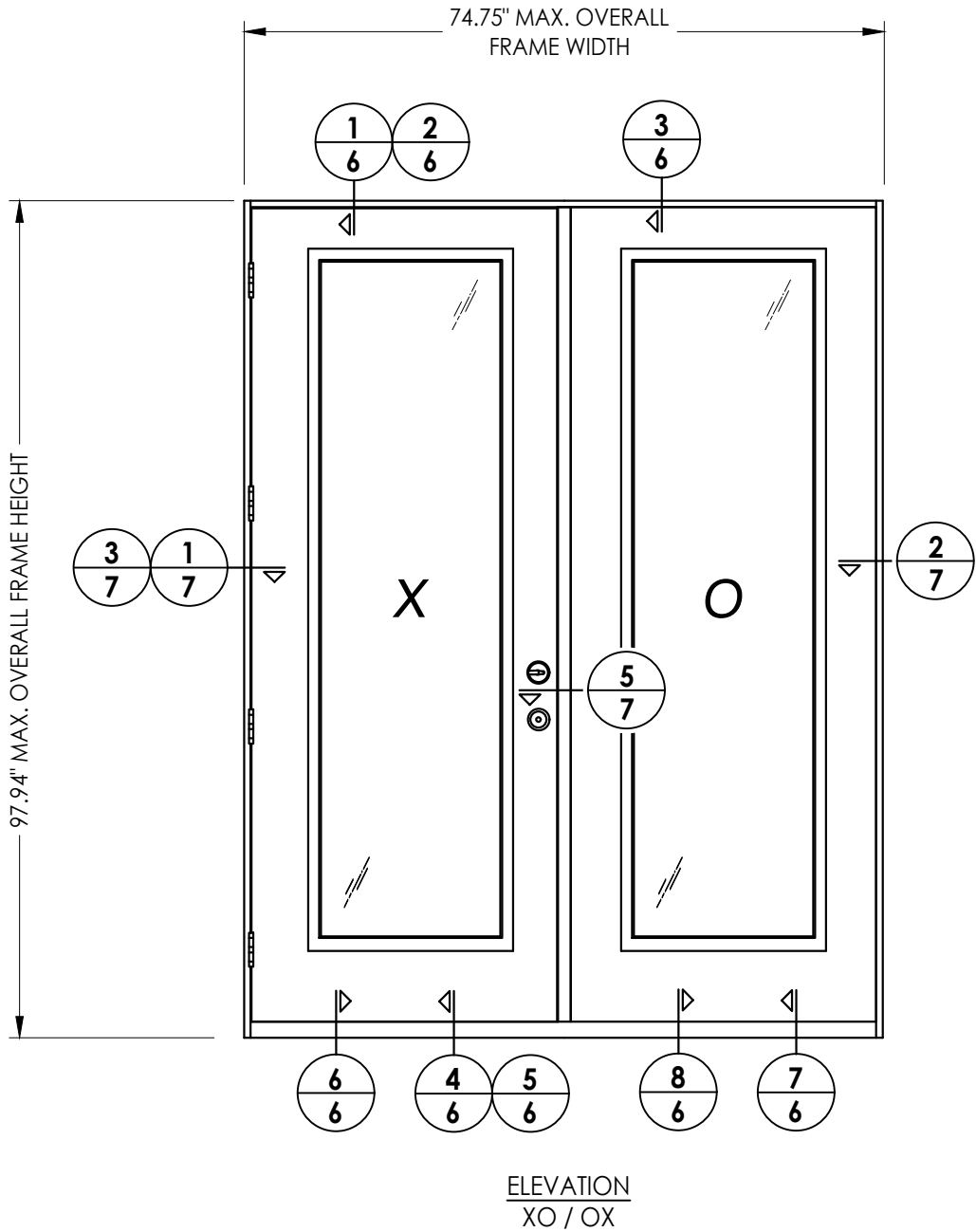


2 VERTICAL CROSS SECTION
4

[illegible]

Documents Prepared By:
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DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-20698.12

SHEET 5 OF 10

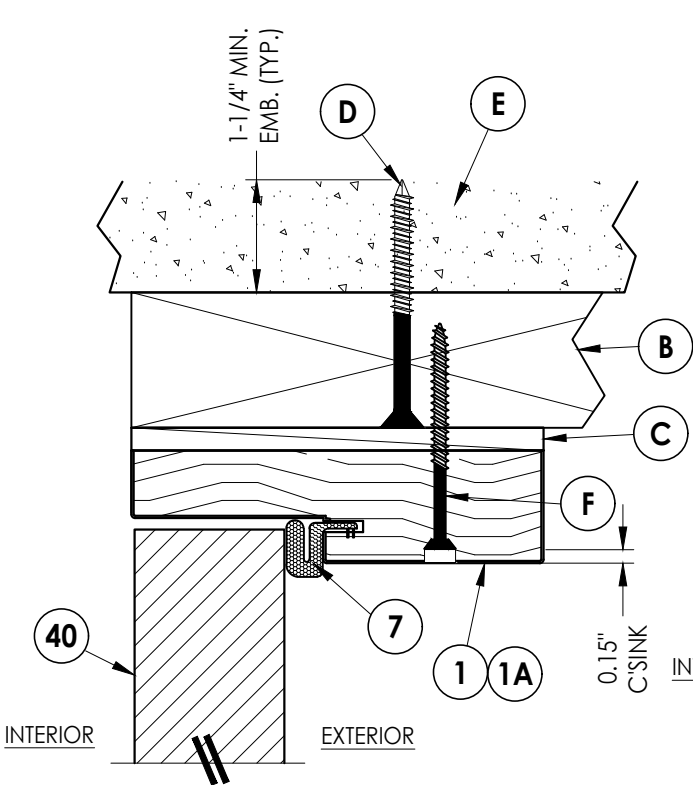
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2	8/06/20	UPDATE TO 7TH ED. (2020) FBC DAC
1	9/07/17	UPDATE TO 6TH ED. (2017) FBC LFS

PRODUCT:	ENDURA
PART OR ASSEMBLY:	ELEVATIONS

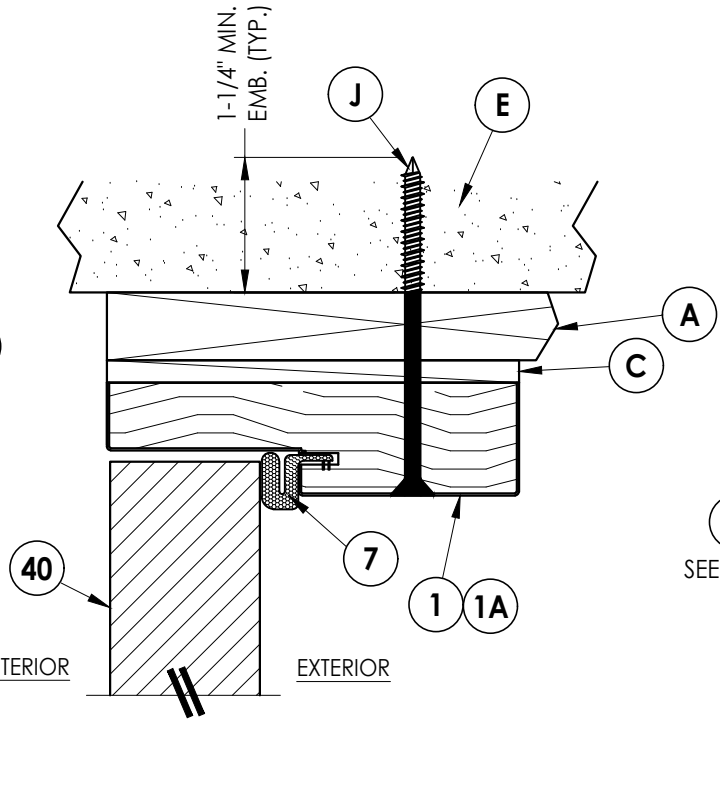
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

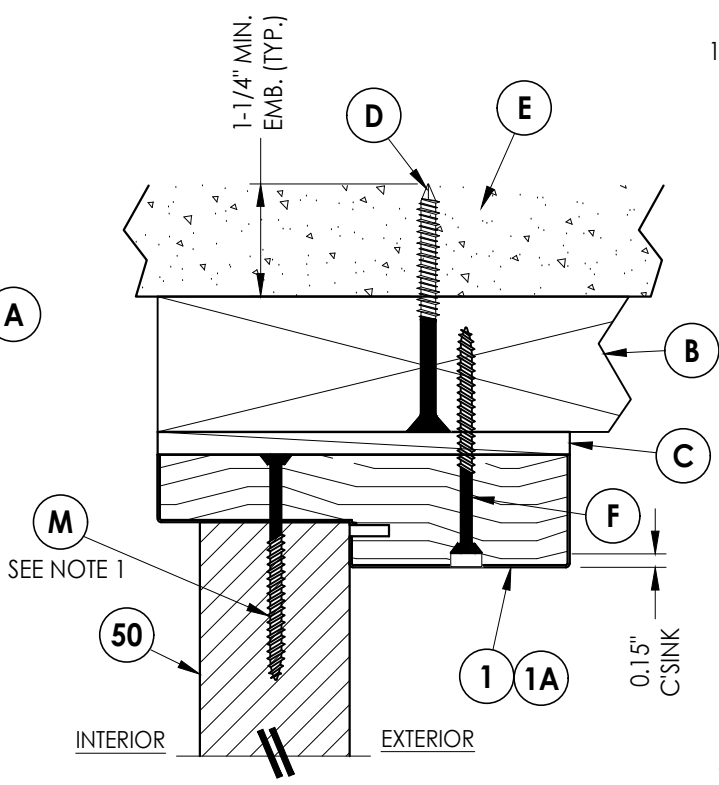
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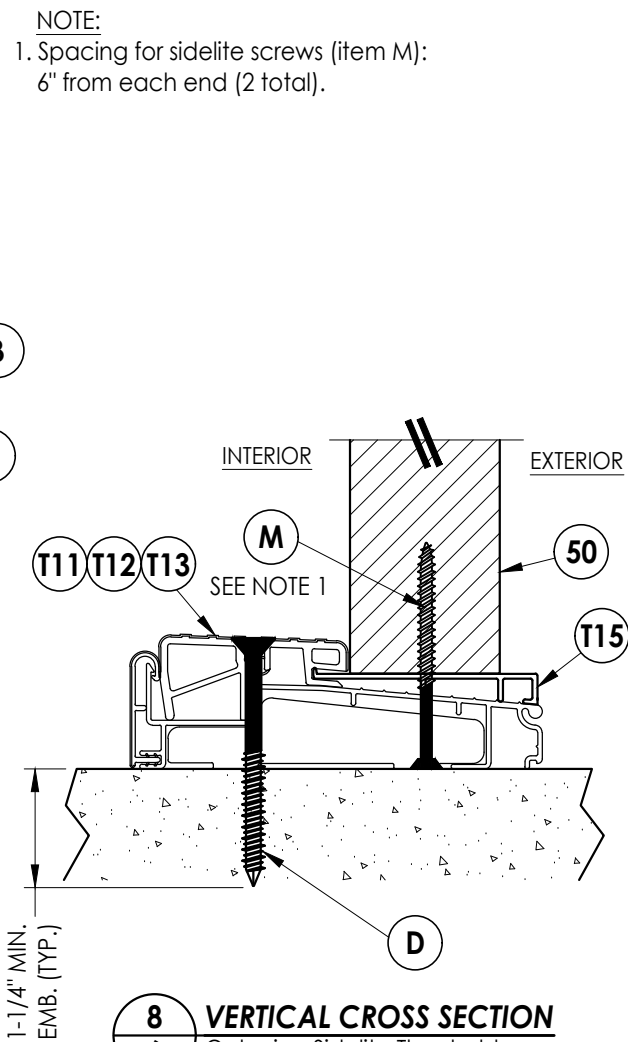
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6 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction



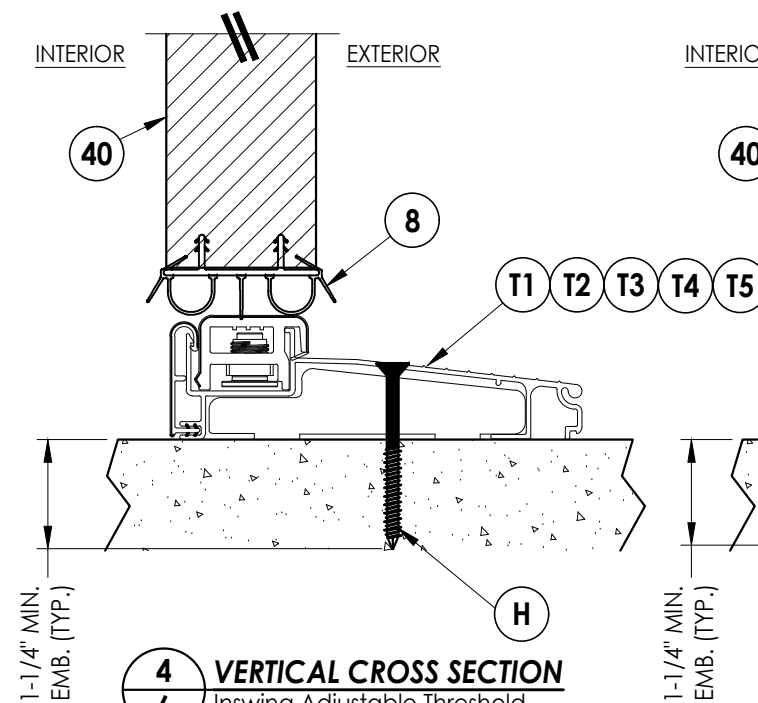
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6 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
1X Buck Construction



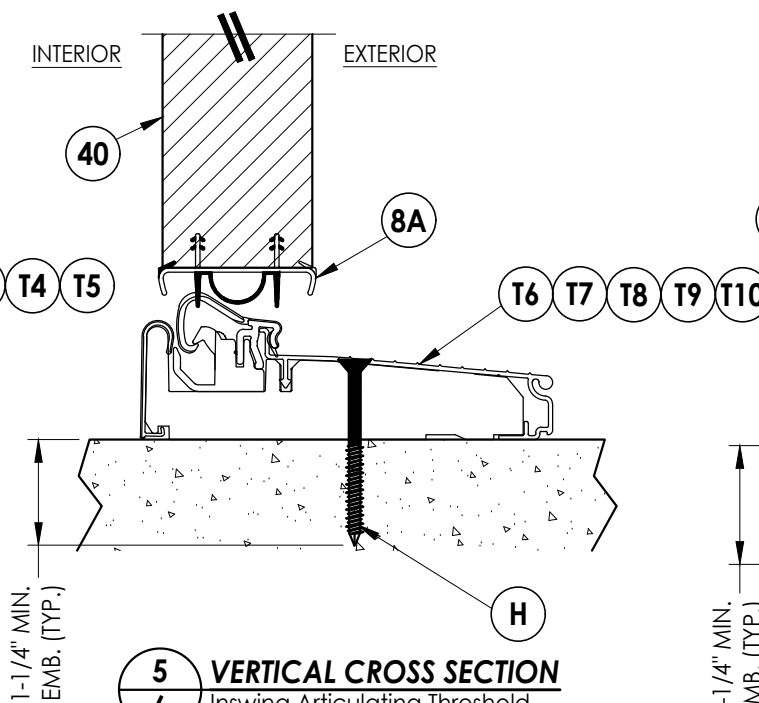
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6 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction



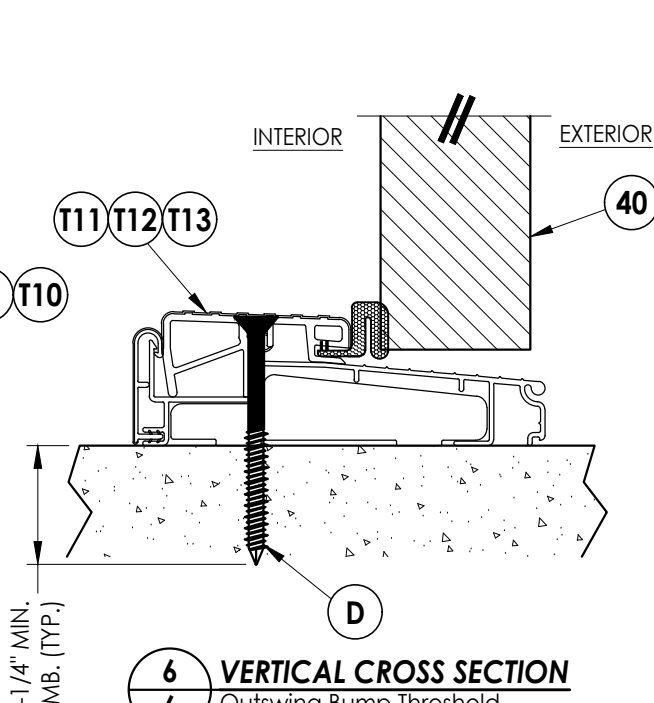
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6 **VERTICAL CROSS SECTION**
Outswing Sidelite Threshold



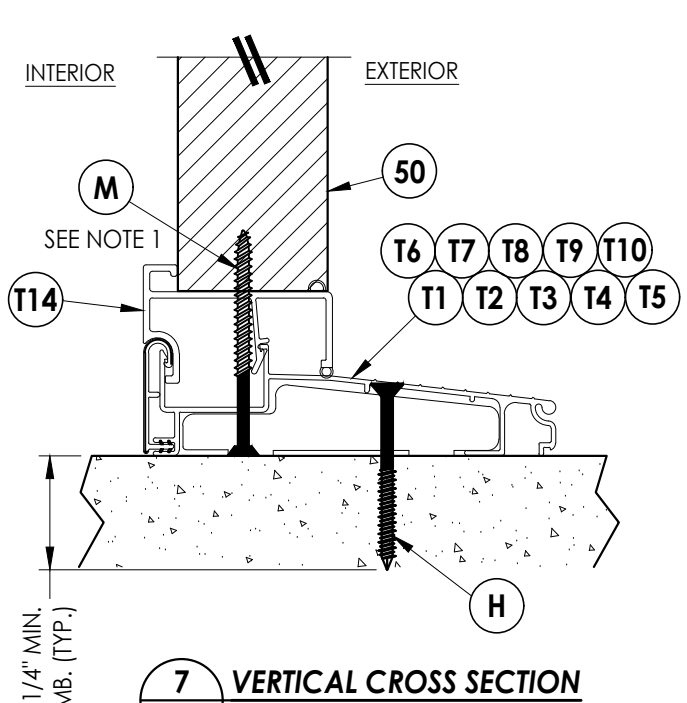
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6 **VERTICAL CROSS SECTION**
Inswing Adjustable Threshold



5
6 **VERTICAL CROSS SECTION**
Inswing Articulating Threshold



6
6 **VERTICAL CROSS SECTION**
Outswing Bump Threshold



7
6 **VERTICAL CROSS SECTION**
Inswing Sidelite Threshold

NOTE:
1. Spacing for sidelite screws (item M):
6" from each end (2 total).

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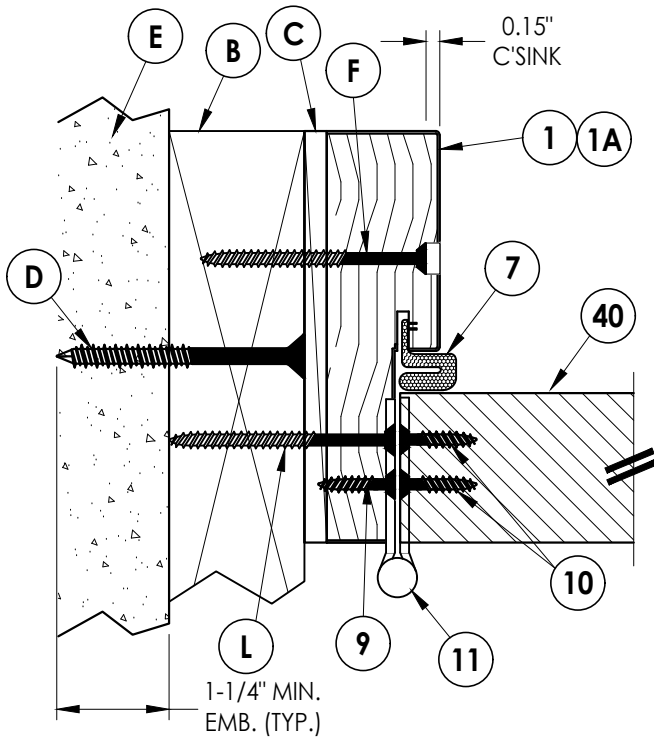
PRODUCT: ENDURA

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Phone No.: 813.659.9197
FBPE Registry No. 9813

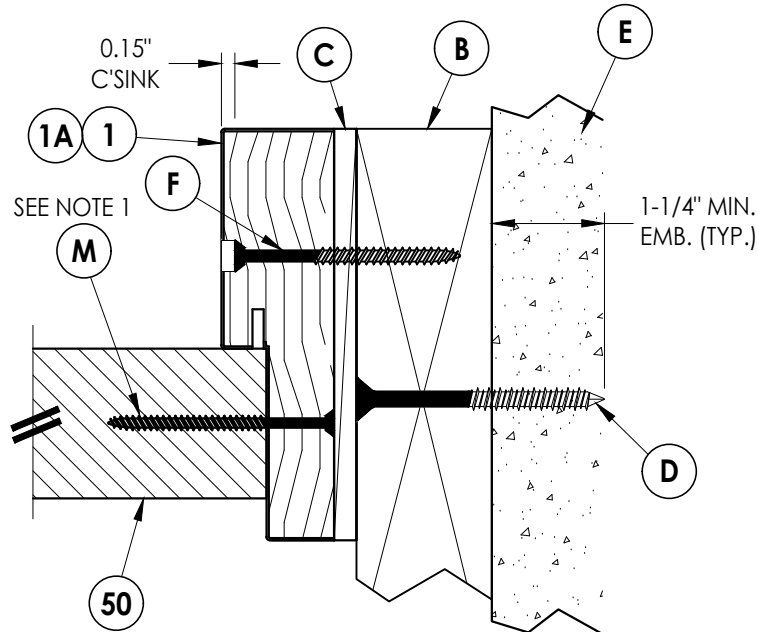
PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS

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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-20698.12				
SHEET 6 OF 10				

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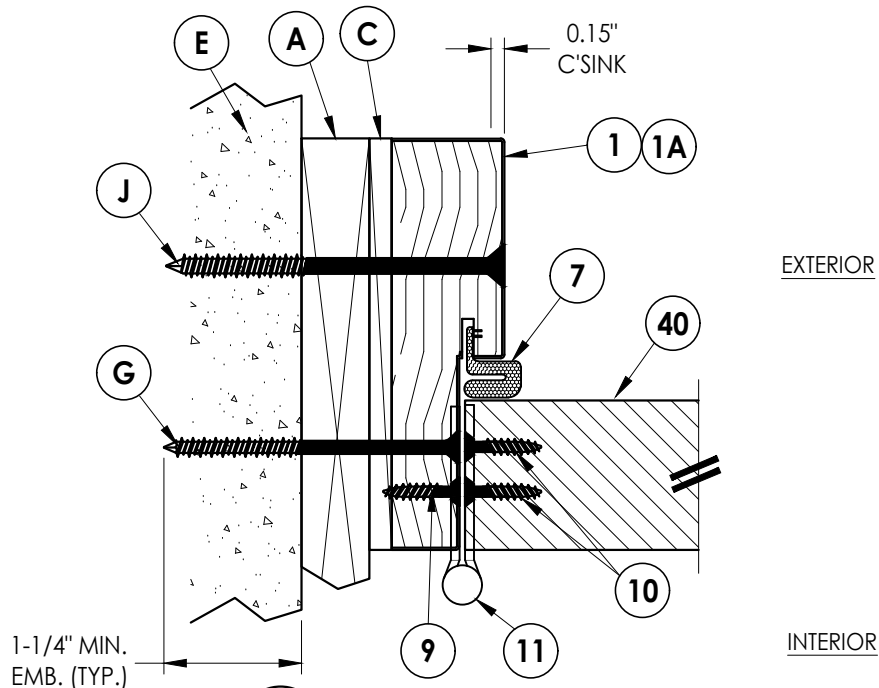


1
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

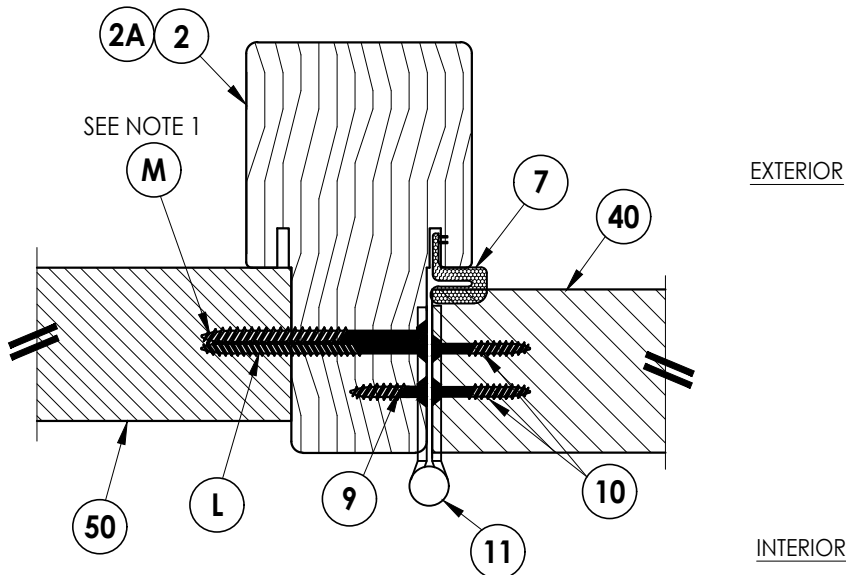


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7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

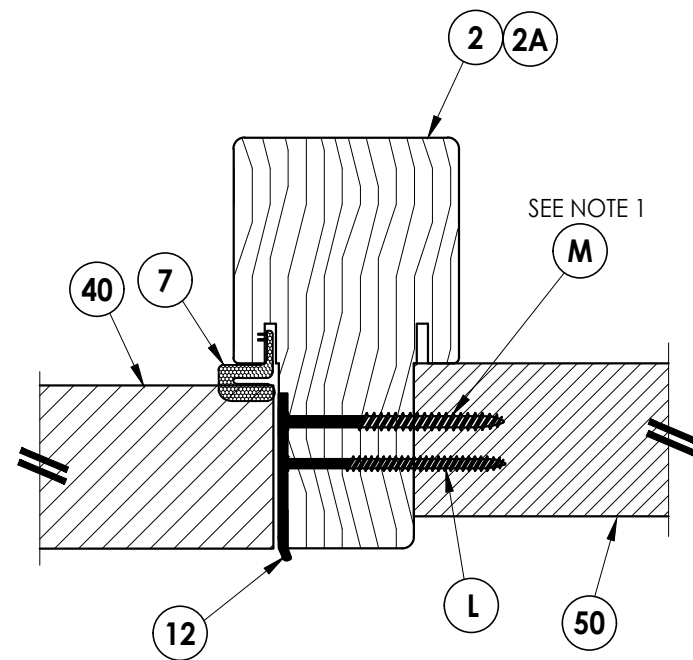
NOTE:
1. Spacing for sidelite screws (item M): 6.5", 32.5", 57.25" and 85" from head to sill (4 total).



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	DATE
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.

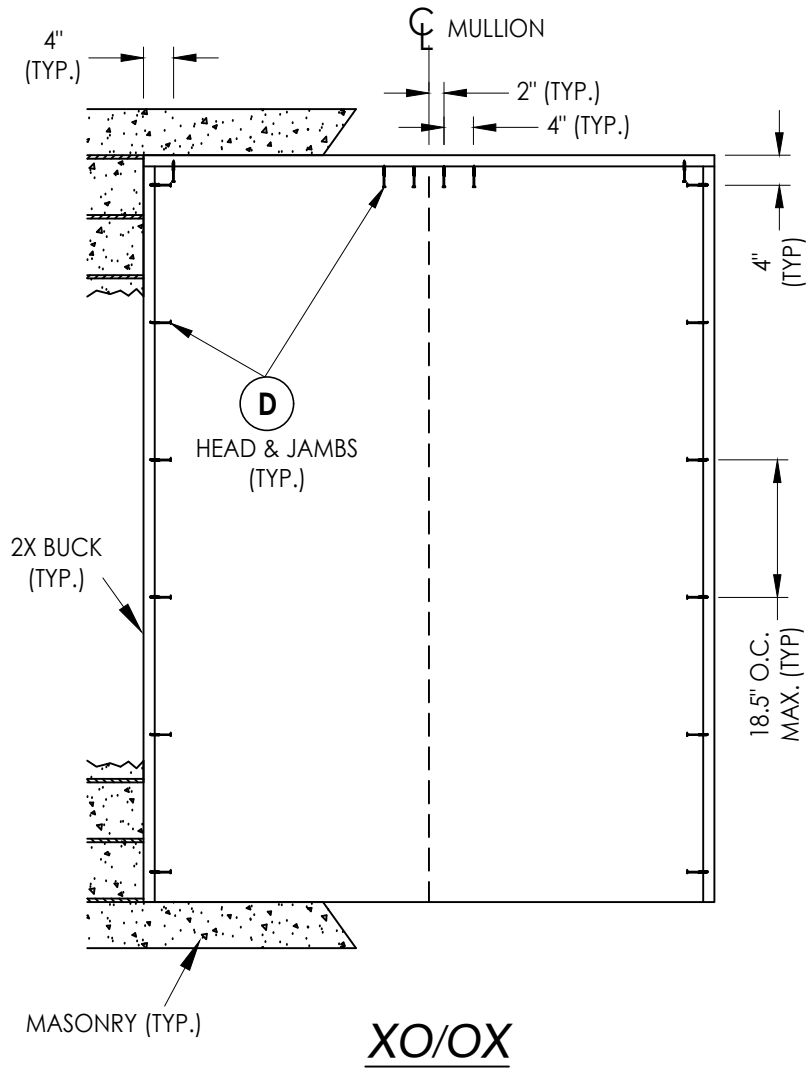
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CHK. BY: LFS

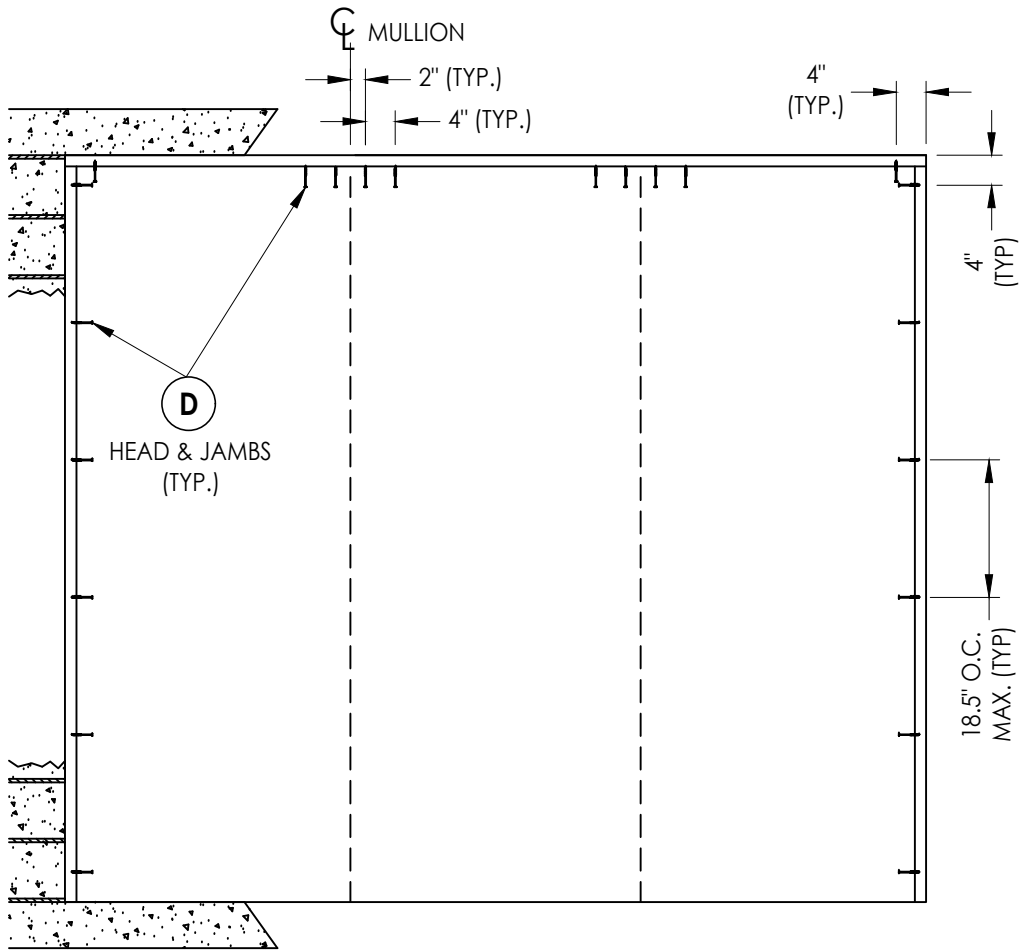
DRAWING NO.:

FL-20698.12

SHEET 7 OF 10



XO/OX



OXO

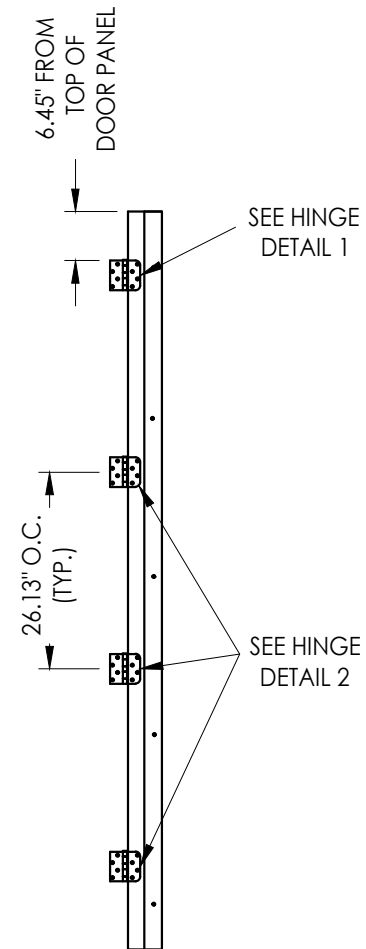
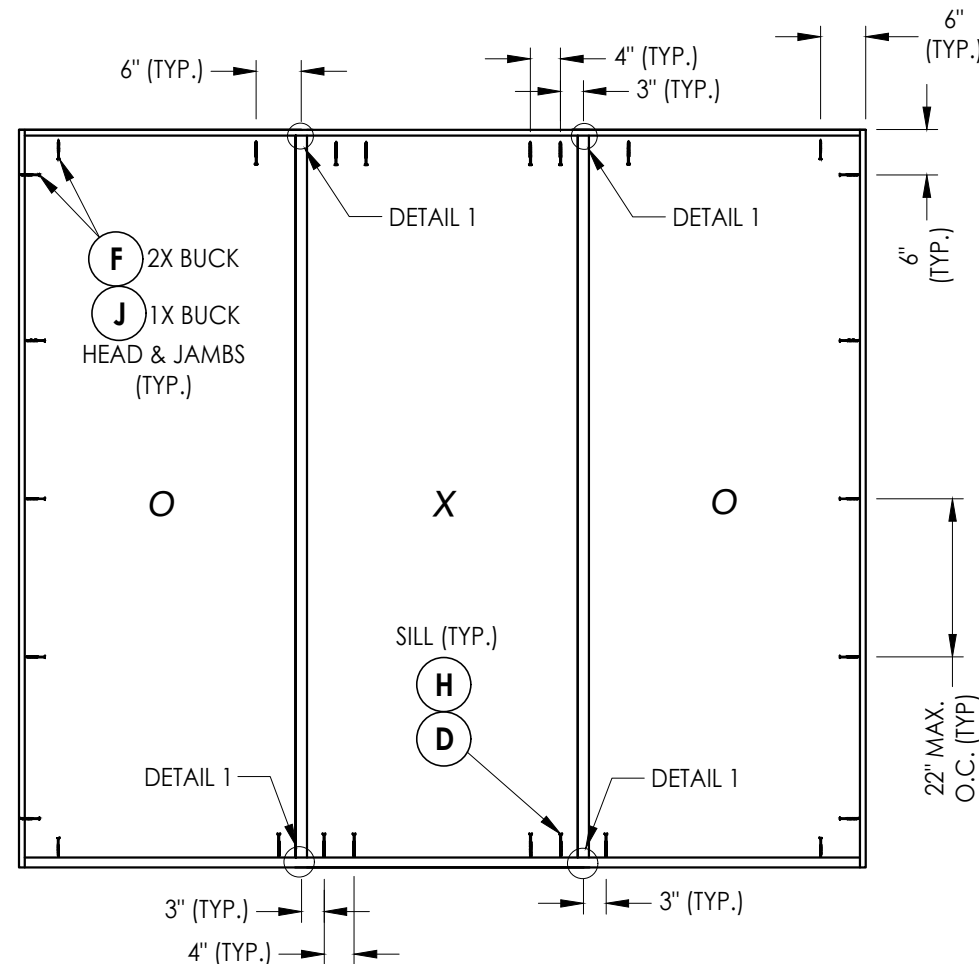
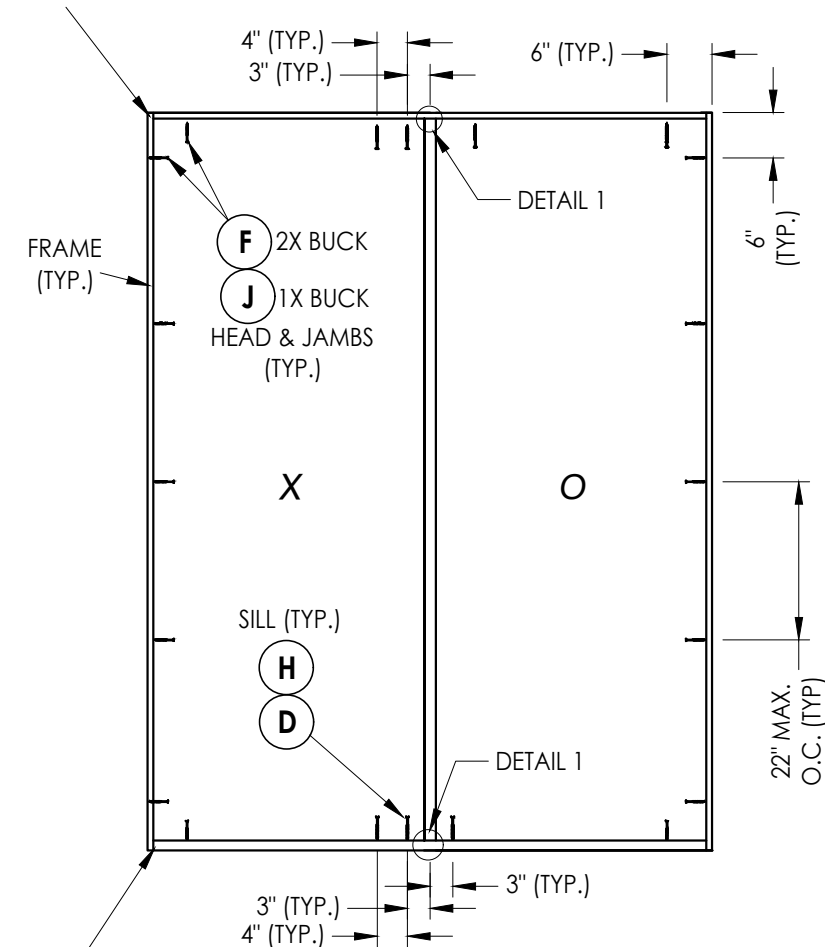
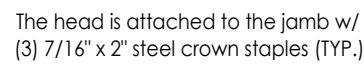
2X BUCK ANCHORING

DATE: 5/26/16	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-20698.12	
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
		BY

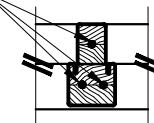
PRODUCT:	ENDURA
PART OR ASSEMBLY:	BUCK ANCHORING

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
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HINGE JAMB

#8 X 2-1/2" COURSE
THREAD
DRYWALL SCREW



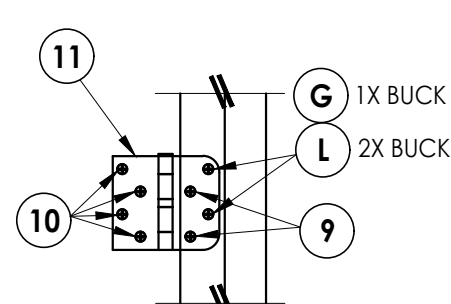
DETAIL 1

Integral million attachment

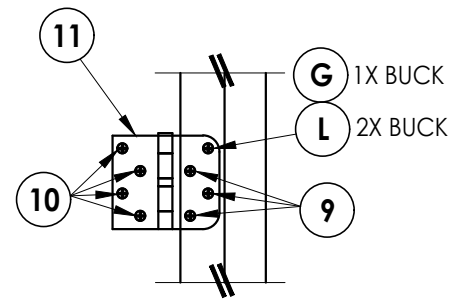
FRAME ANCHORING

CORROSION RESISTANCE - SALTWATER ENVIRONMENT

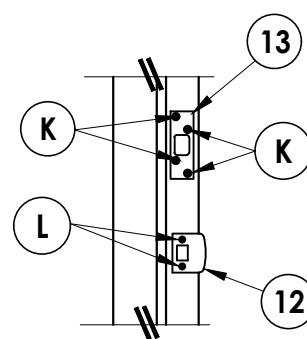
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.



HINGE DETAIL 1



HINGE DETAIL 2



LATCH & DEADBOLT STRIKE PLATE DETAILS

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
ITW BUILDEX TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

	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			BY

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20698.12

SHEET 9 OF 10

SHEET 5 of 10

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

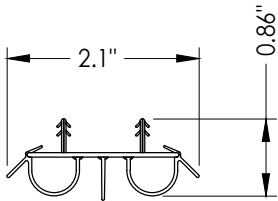
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

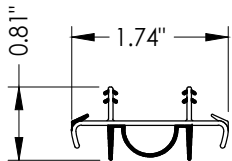
PART OR ASSEMBLY: FRAME ANCHORING & HARDWARE DETAILS

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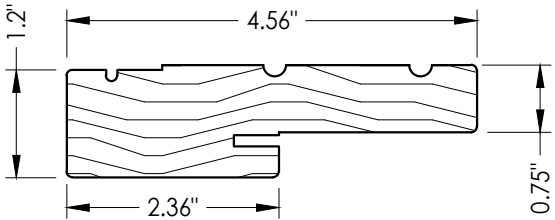
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2" 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	-



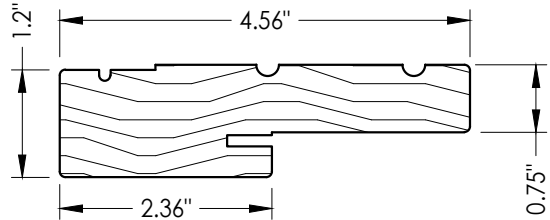
8 SWEEP



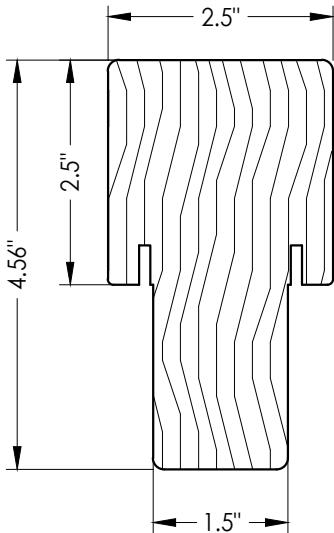
8A ARTICULATING SWEEP



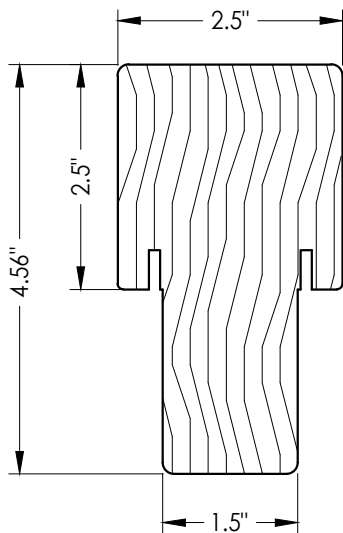
1 WOOD JAMB



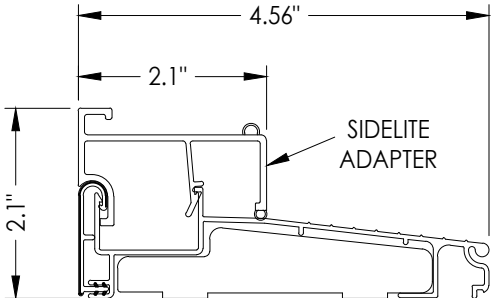
1A WOOD JAMB
FrameSaver (Endura)



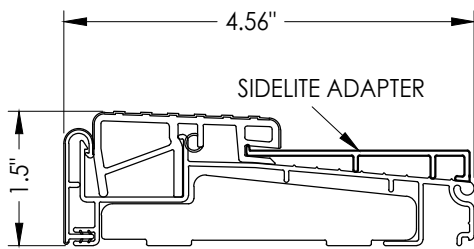
2 INTEGRAL MULLION



2A **INTEGRAL MULLION**
FrameSaver (Endura)



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



T15 OUTSWING THRESHOLD w/ SIDELITE ADAPTER

[illegible]