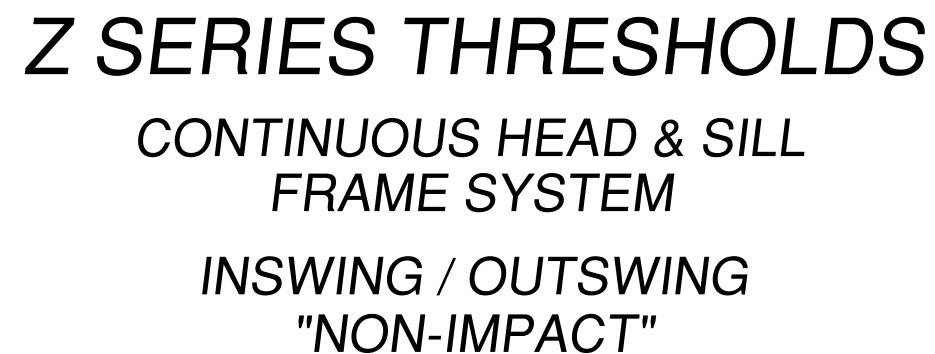
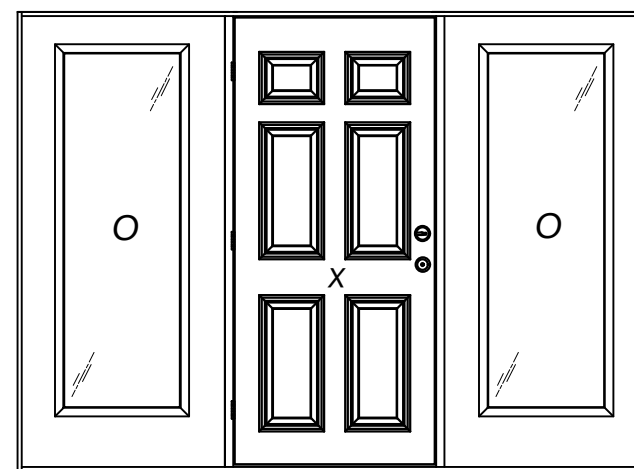


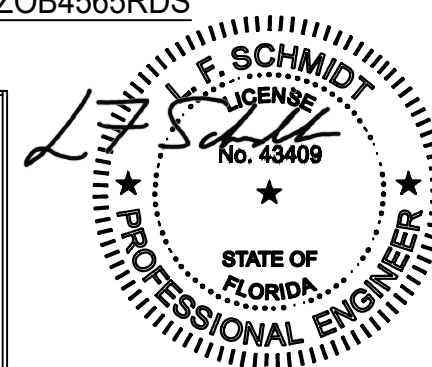


1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be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



Digitally signed by Lyndon F
Schmidt
Date: 2026.07.17 12:04:36 -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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33487
Phone No.: 813.659.9197
FBPE Registry No. 9813

ENDURA

ASSEMBLY:

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		
				BY

DATE: 5/26/16

SCALE: *N.T.S.*

DWG. BY: JK

CHK. BY: LFS

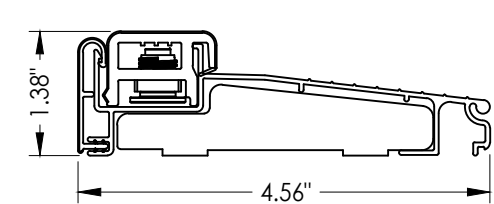
DRAWING NO.:

FL-20698.5

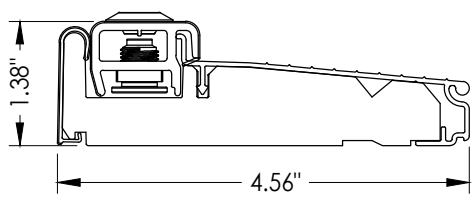
SHEET 1 OF 10

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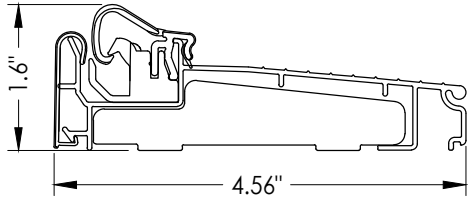
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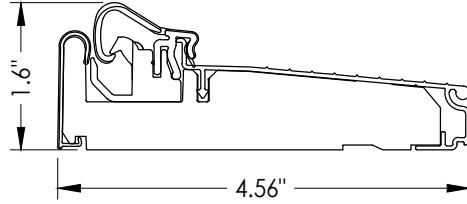
T1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



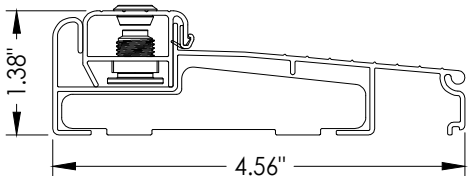
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ZAI4565FN



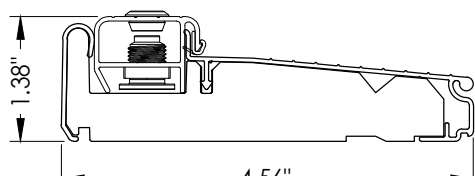
T6 INSWING ARTICULATING THRESHOLD
ZACL4565



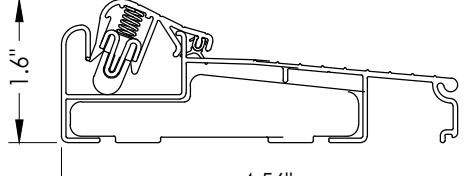
T7 INSWING ARTICULATING THRESHOLD
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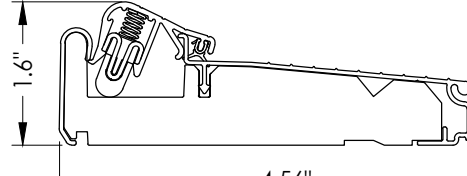
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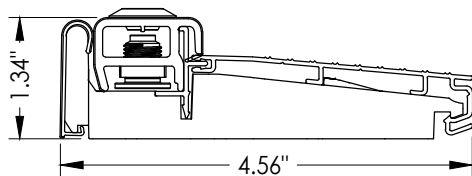
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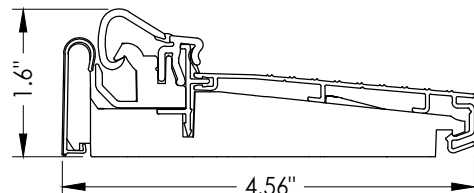
T8 INSWING ARTICULATING THRESHOLD
ZACLAA4565



T9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



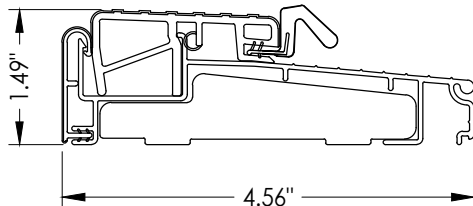
T5 INSWING ADJUSTABLE THRESHOLD
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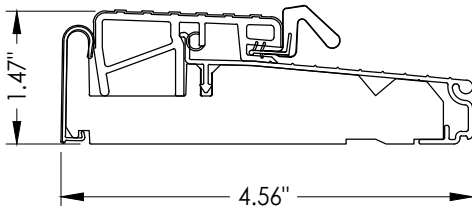
T10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

INSWING ADJUSTABLE THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE OPAQUE STEEL	OX / XO	74.75" X 81.94"	+50.0	-50.0
	OXO	112.2" X 81.94"		

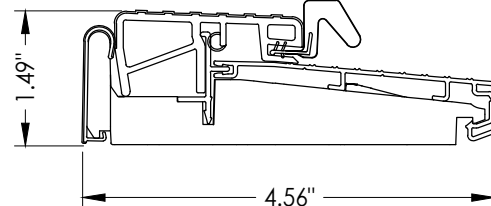
INSWING ARTICULATING THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE OPAQUE STEEL	OX / XO	74.75" X 81.94"	+50.0	-50.0
	OXO	112.2" X 81.94"		



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
MASONITE OPAQUE STEEL	OX / XO	74.75" X 81.13"	+70.0	-70.0
	OXO	112.2" X 81.13"		

OUTSWING FIXED BUMPER THRESHOLD (RDS)				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE OPAQUE STEEL	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.

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FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
Z SERIES THRESHOLD DETAILS
& DESIGN PRESSURES

NO.	DATE	REVISIONS			
		DATE	BY	DESCRIPTION	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.

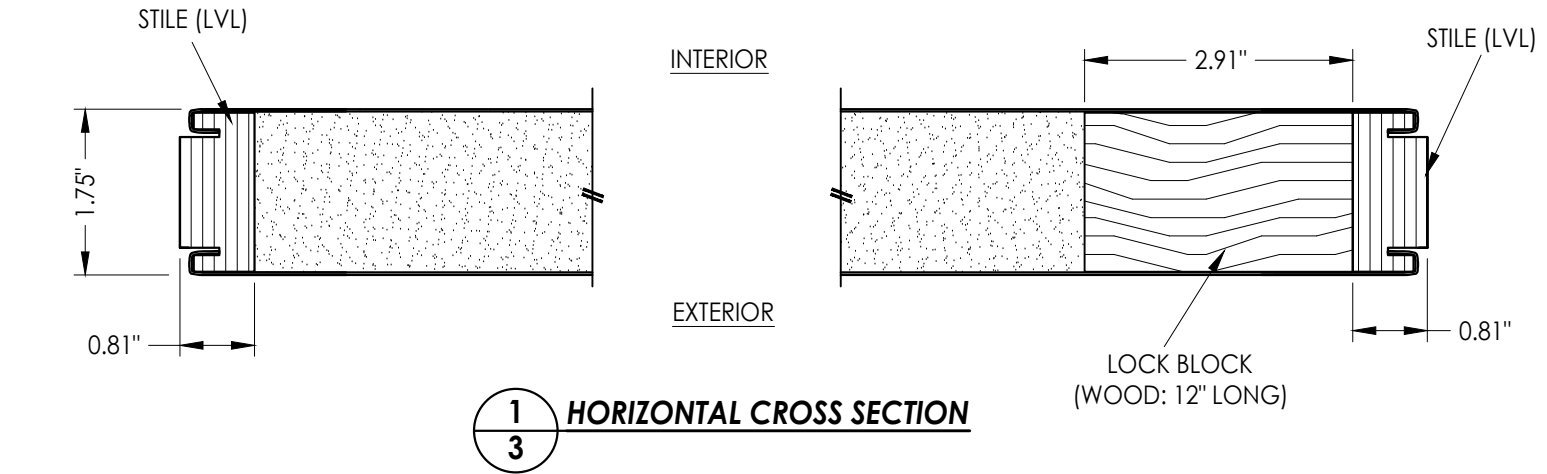
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CHK. BY: LFS

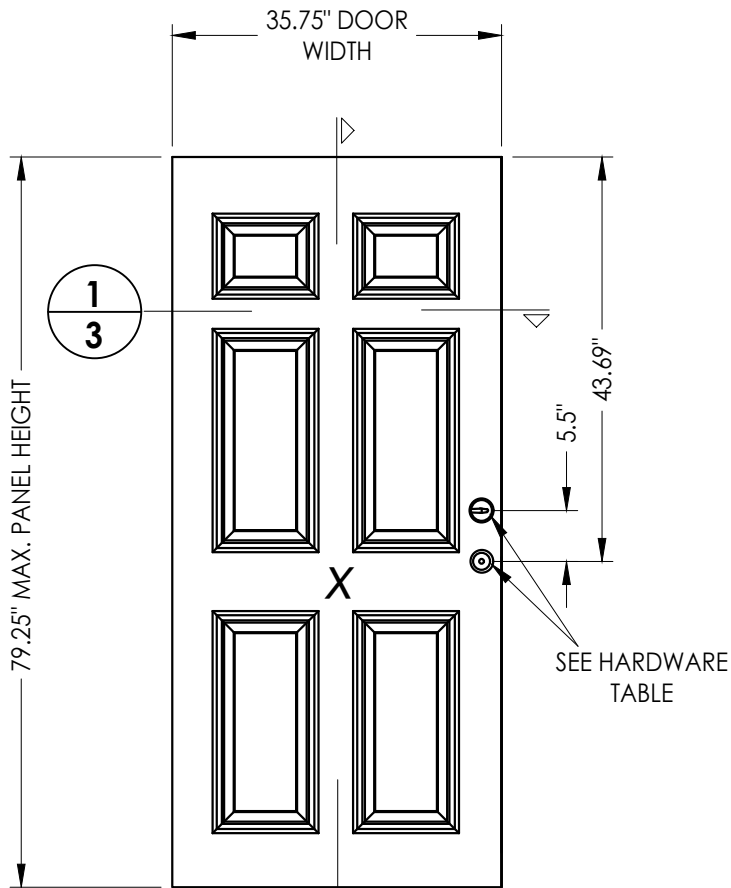
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SHEET 2 OF 10

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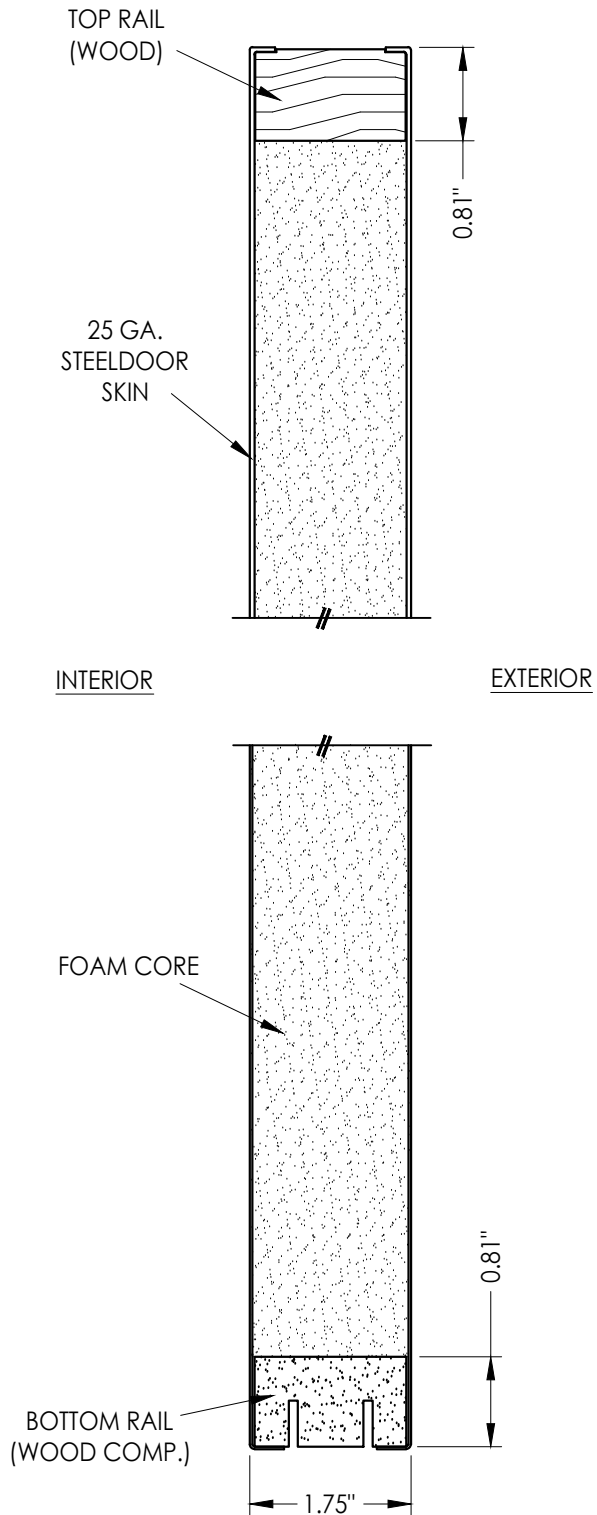
1
3 HORIZONTAL CROSS SECTION



2
3 DOOR PANEL
Masonite
Steel (Wood Edge)

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

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



2
3 VERTICAL CROSS SECTION

PRODUCT:		ENDURA	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
NO.	DATE	REVISIONS	
		DATE	BY
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

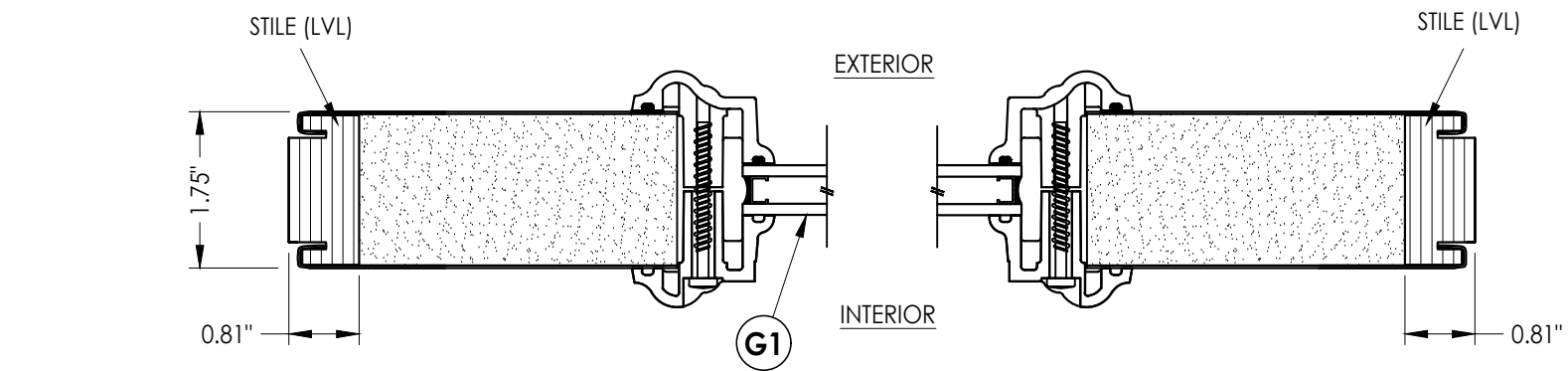
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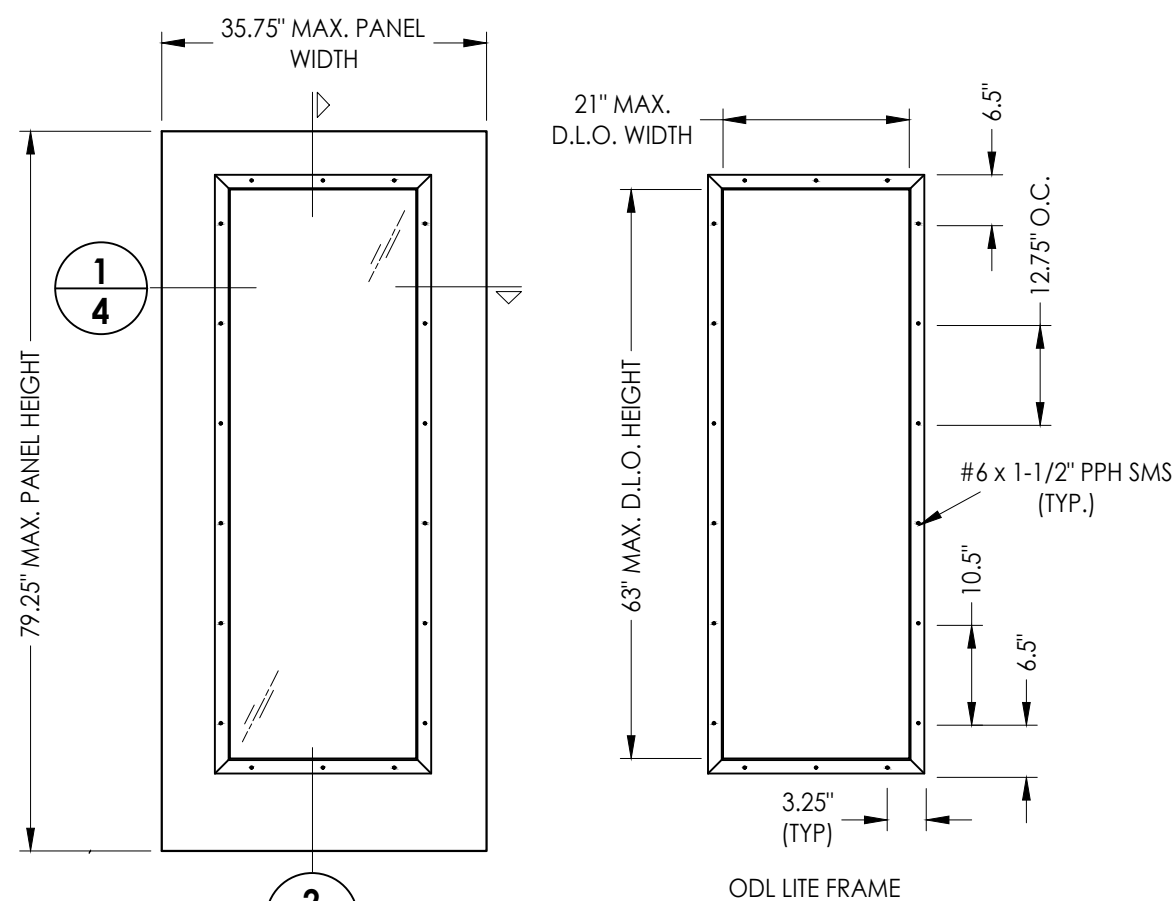
SHEET 3 OF 10

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



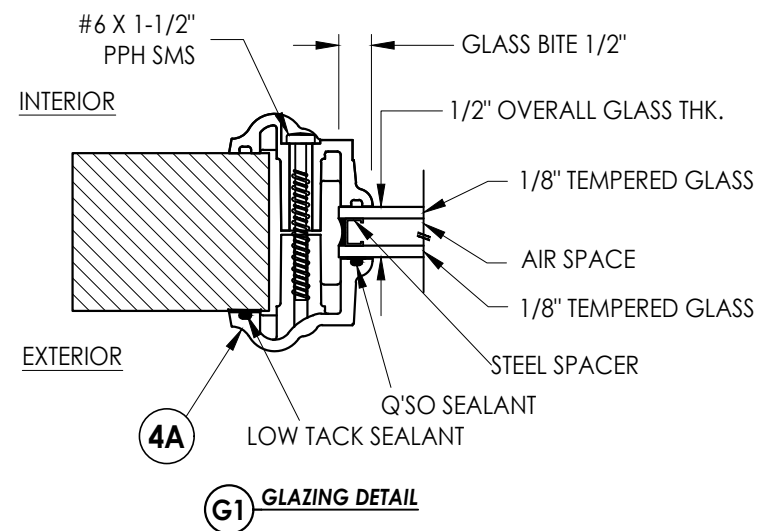
1 **HORIZONTAL CROSS SECTION**



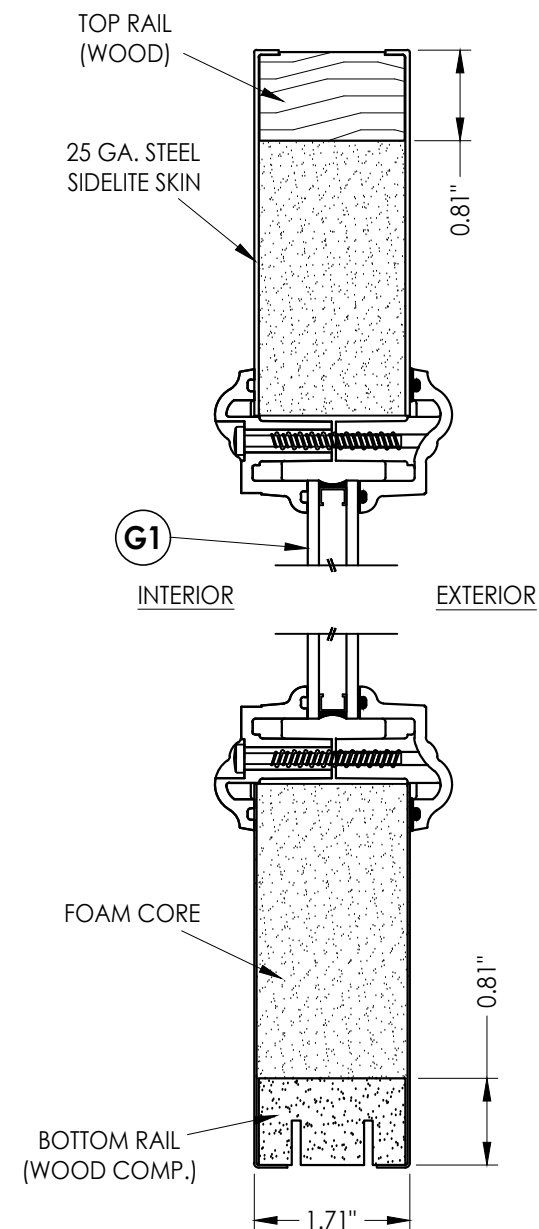
2
4

50 **SIDELITE PANEL**
Masonite
Steel (Wood Edge)

SIDELITE SKIN: 25 GA. STEEL (0.020" 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:
Lyndon F. Schmidt
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Phone No.: 813.659.9197
FBPE Registry No. 9813

112.2" MAX. OVERALL FRAME WIDTH

1
6

2
6

3
6

4
7

5
7

6
6

7
6

8
6

2
7

X

ELEVATION
OXO

[illegible]

PRODUCT:

ENDURA

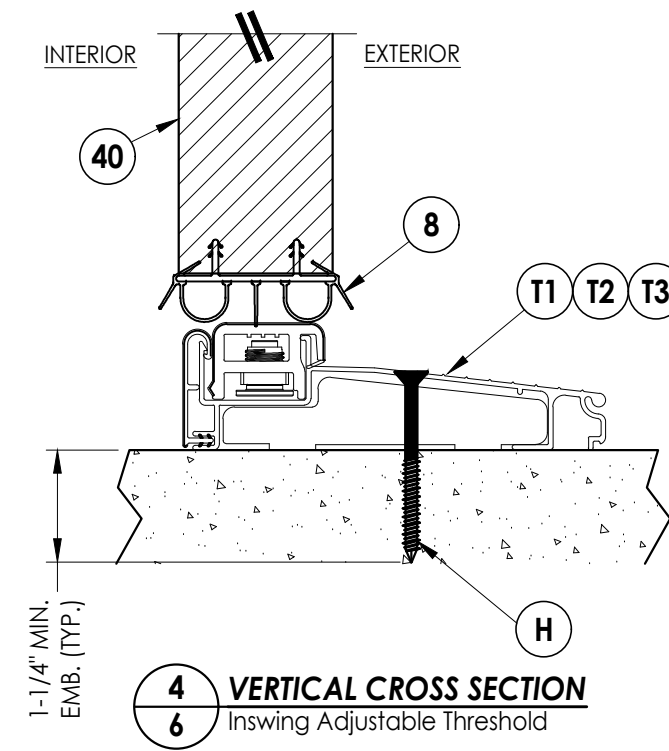
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R²W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33487
813-552-0107

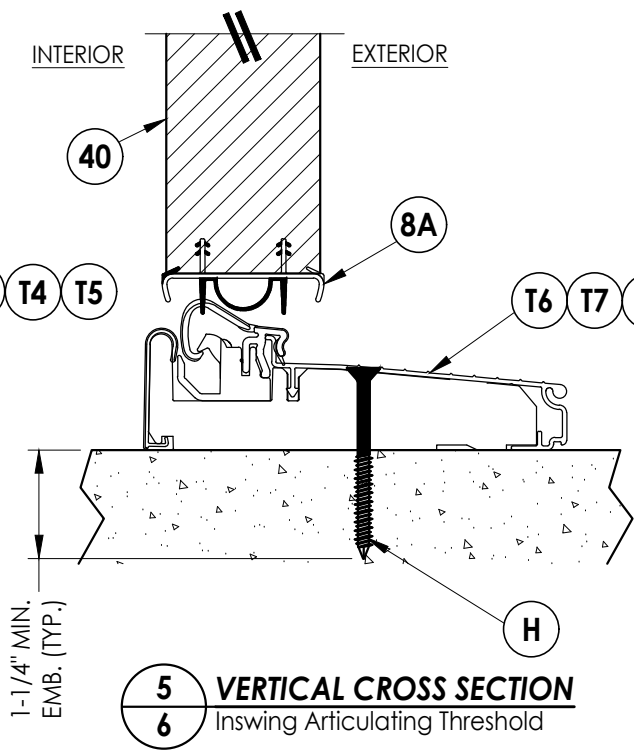
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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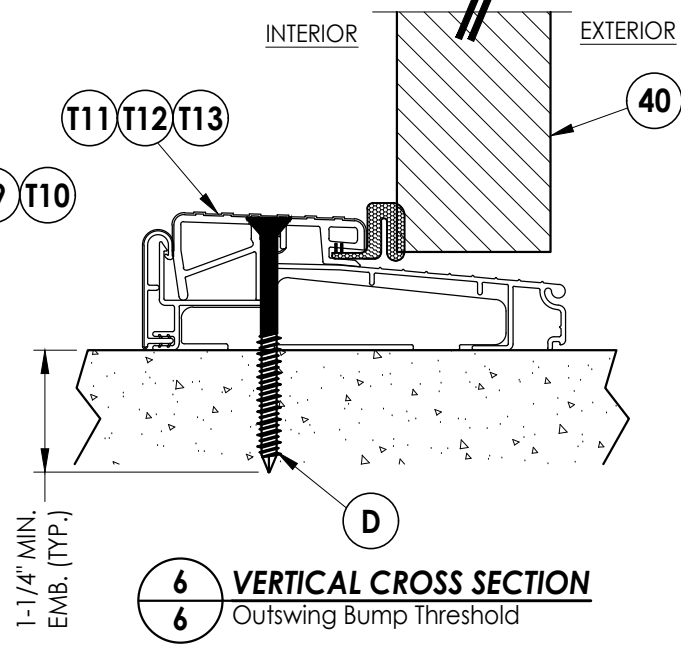
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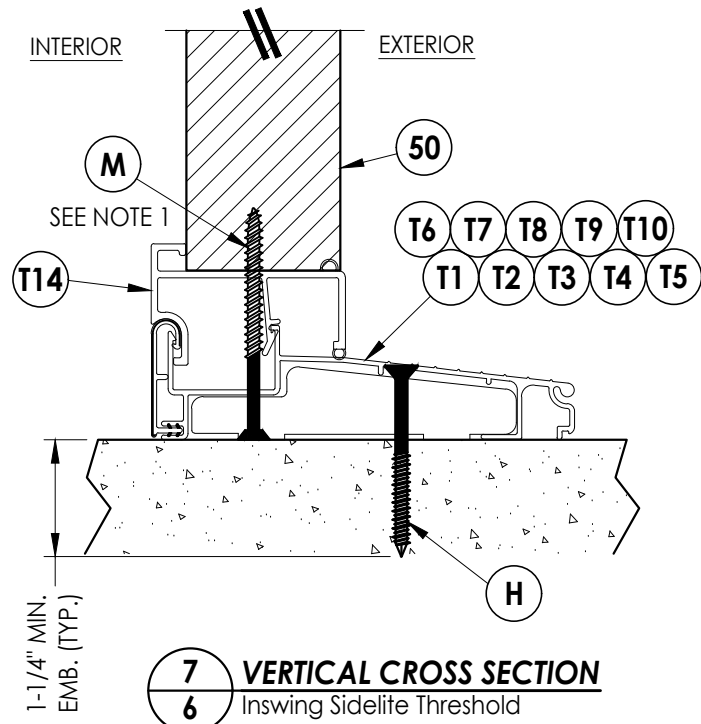
4
6 **VERTICAL CROSS SECTION**
Inswing Adjustable Threshold



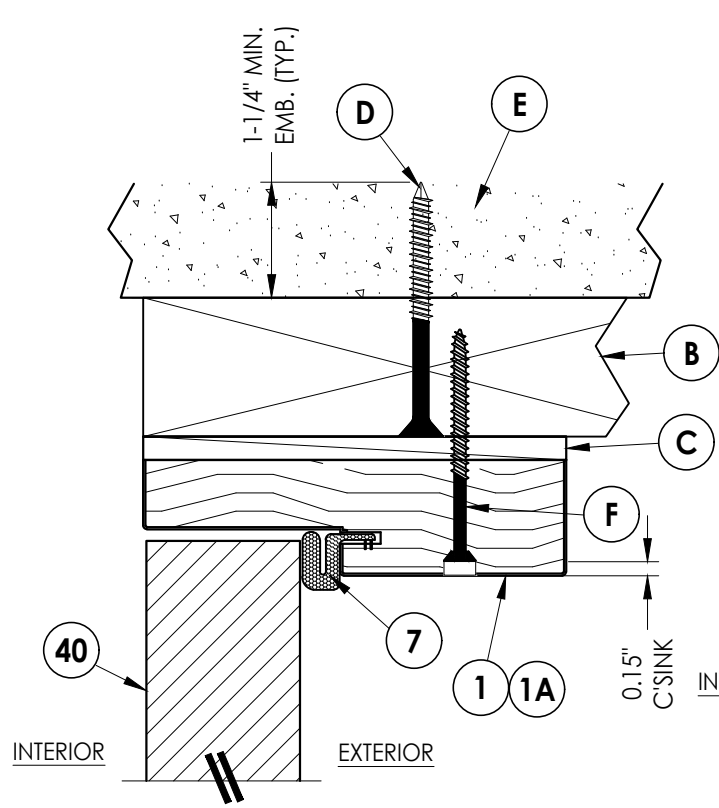
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6 **VERTICAL CROSS SECTION**
Inswing Articulating Threshold



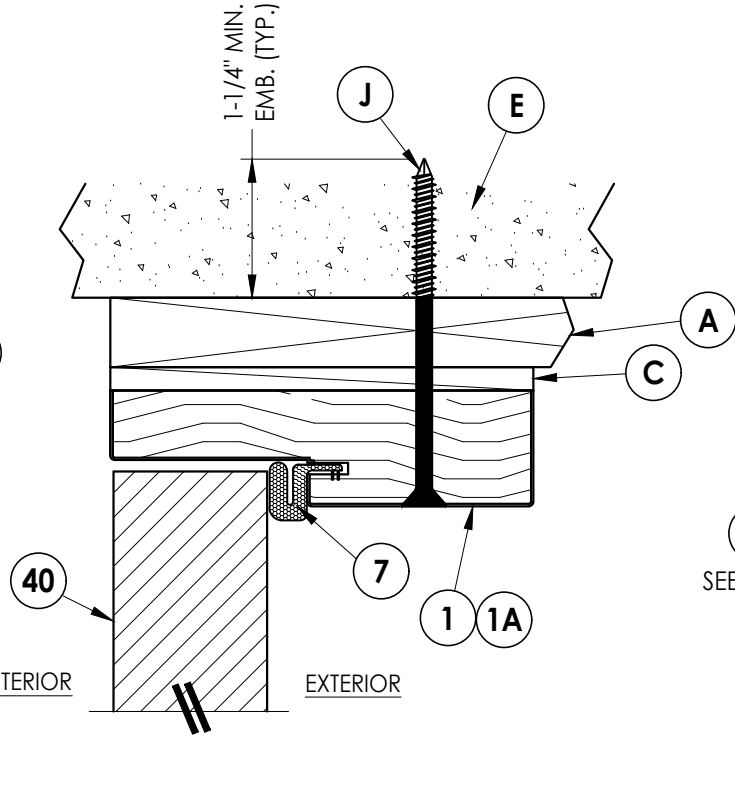
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6 **VERTICAL CROSS SECTION**
Outswing Bump Threshold



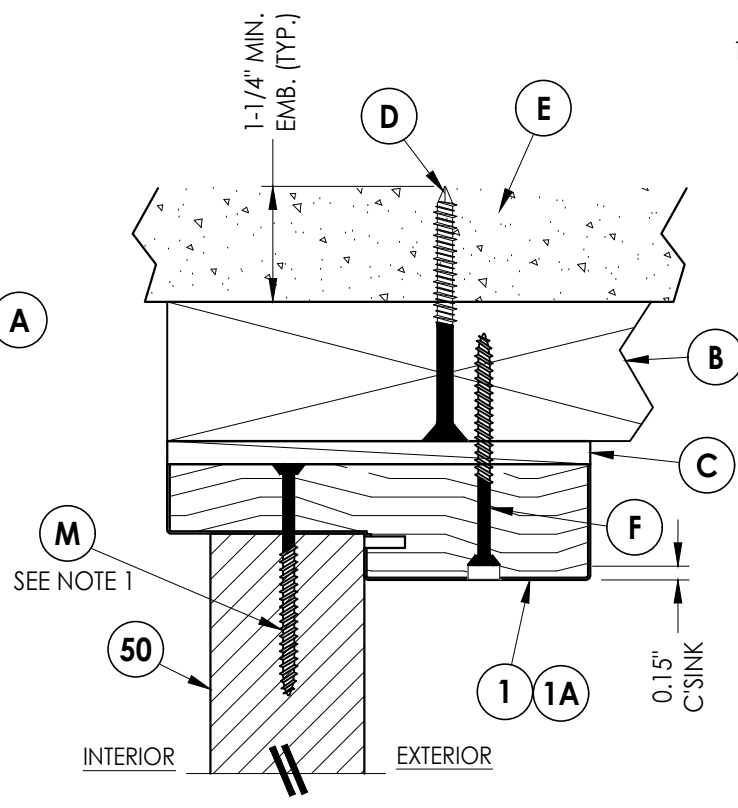
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6 **VERTICAL CROSS SECTION**
Inswing Sidelite Threshold



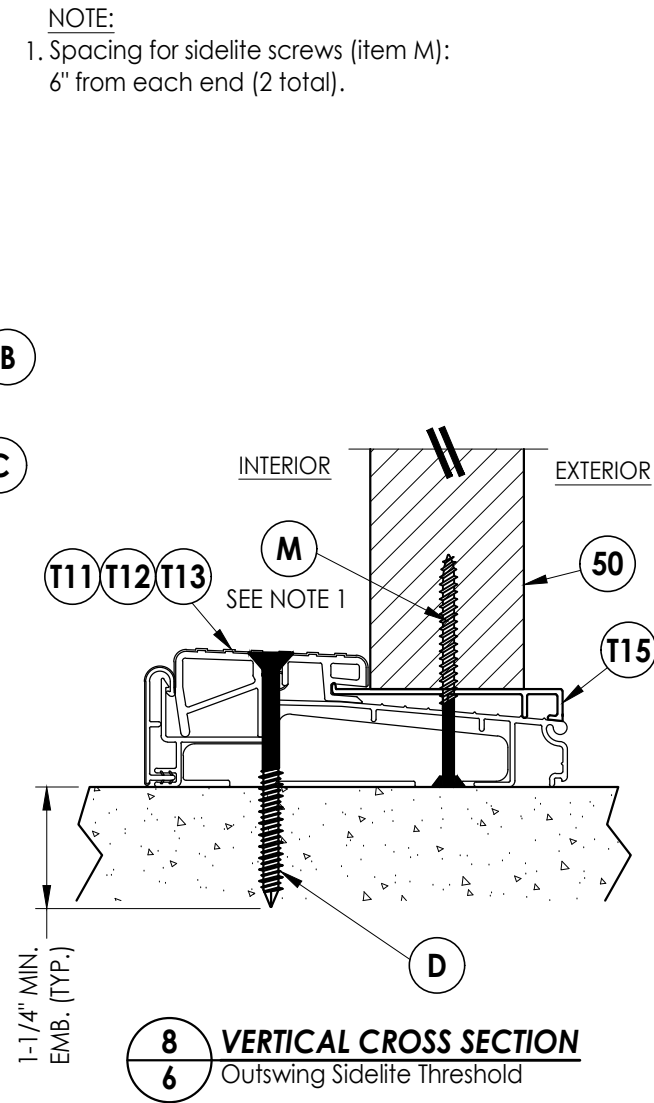
1
6 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction



2
6 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
1X Buck Construction



3
6 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

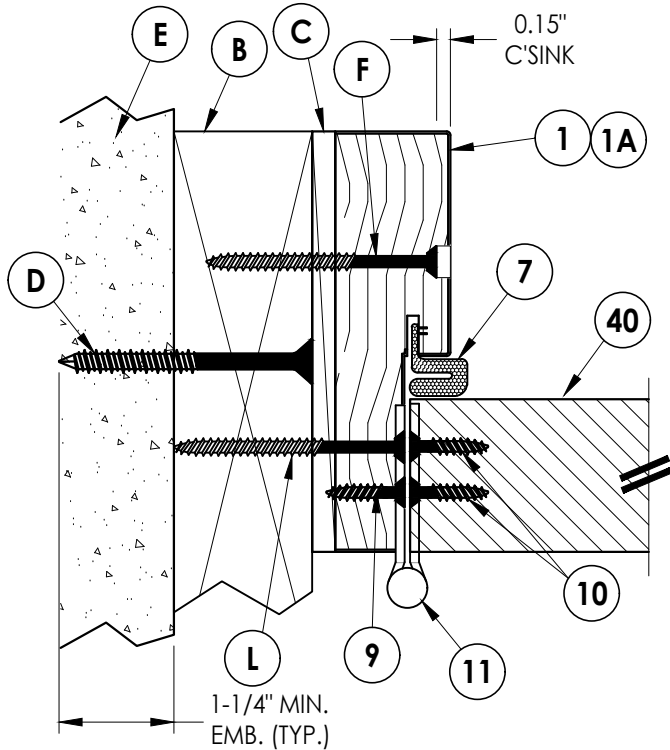


8
6 **VERTICAL CROSS SECTION**
Outswing Sidelite Threshold

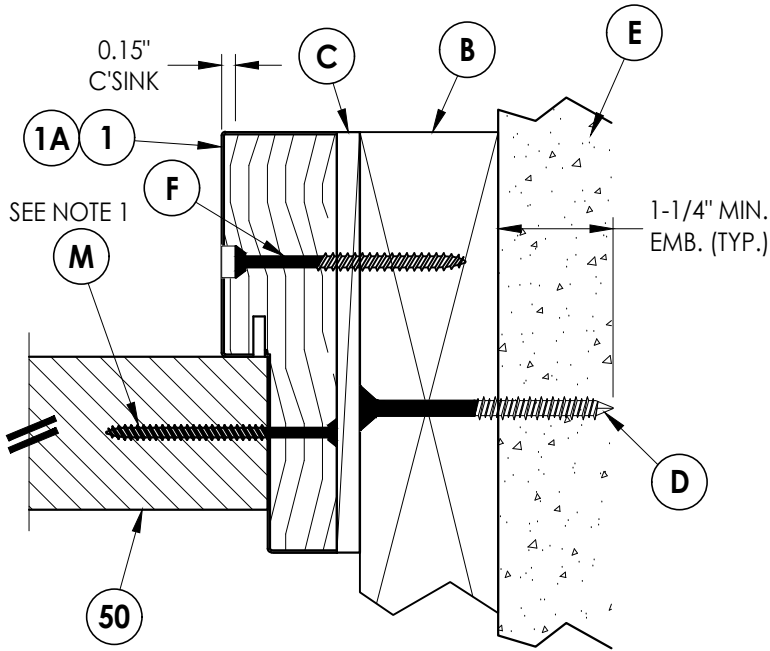
NOTE:
1. Spacing for sidelite screws (item M):
6" from each end (2 total).

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: VERTICAL CROSS SECTIONS	
	LFS	UPDATE TO 9TH ED. (2026)	FBC
	LFS	UPDATE TO 8TH ED. (2023)	FBC
	DAC	UPDATE TO 7TH ED. (2020)	FBC
	LFS	UPDATE TO 6TH ED. (2017)	FBC
	BY	REVISIONS	
	NO.	DATE	
DATE: 5/26/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20698.5			
SHEET 6 OF 10			

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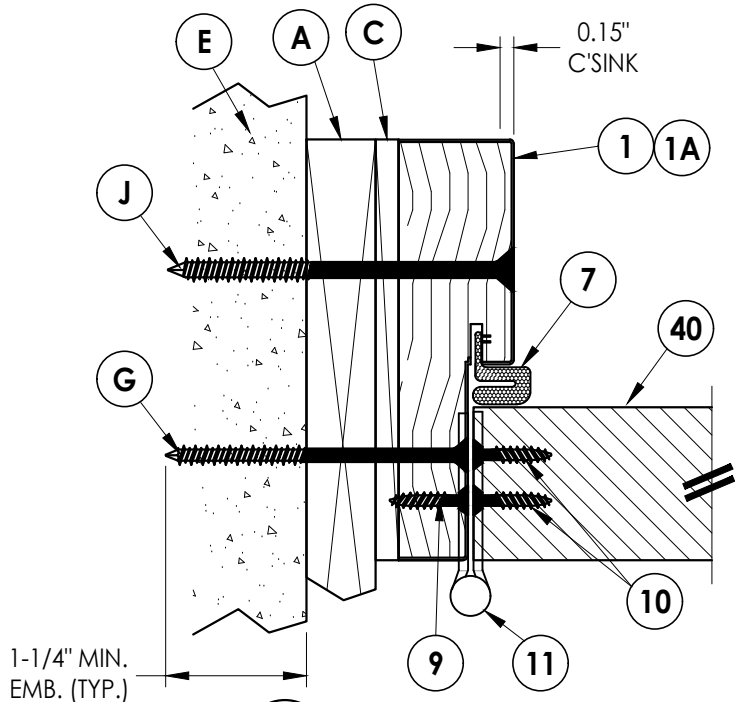


1
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

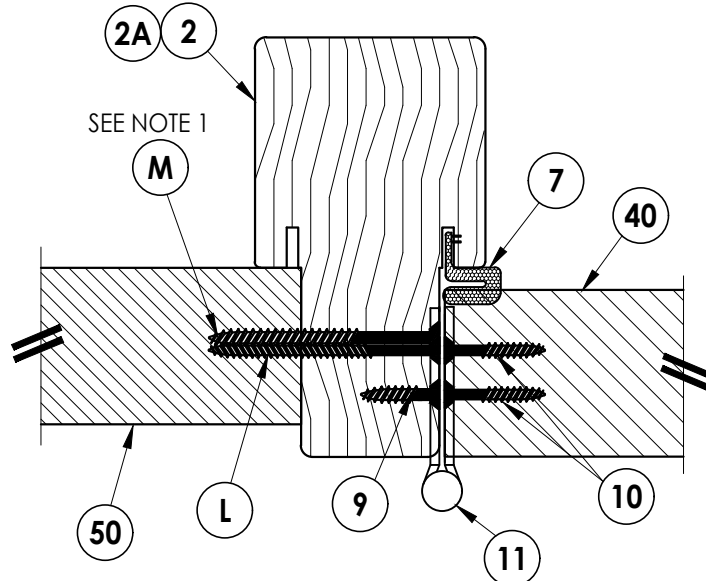


2
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

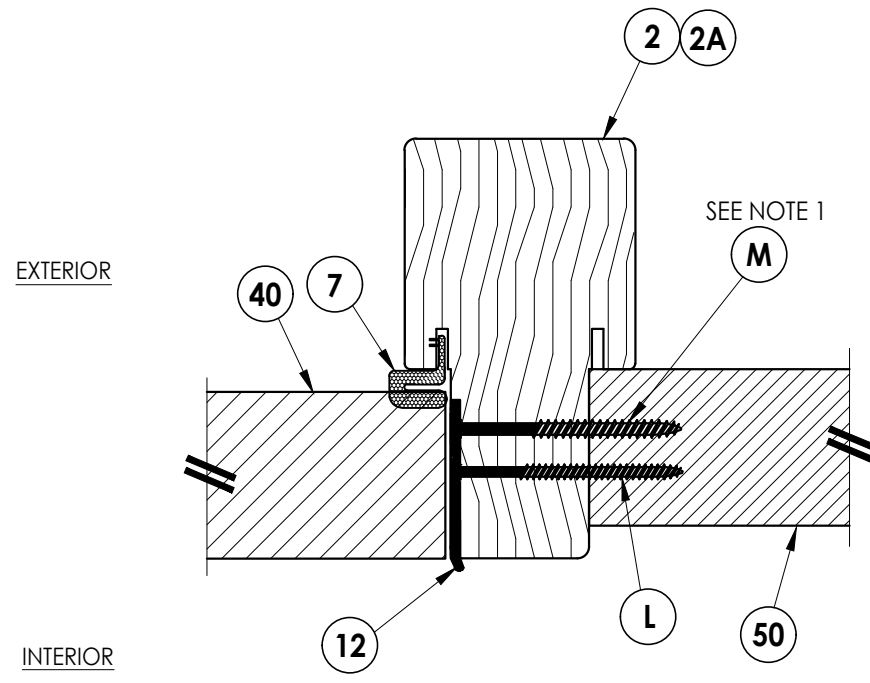
NOTE:
1. Spacing for sidelite screws (item M): 6.5", 38.5"
and 69" from head to sill (3 total).



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

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

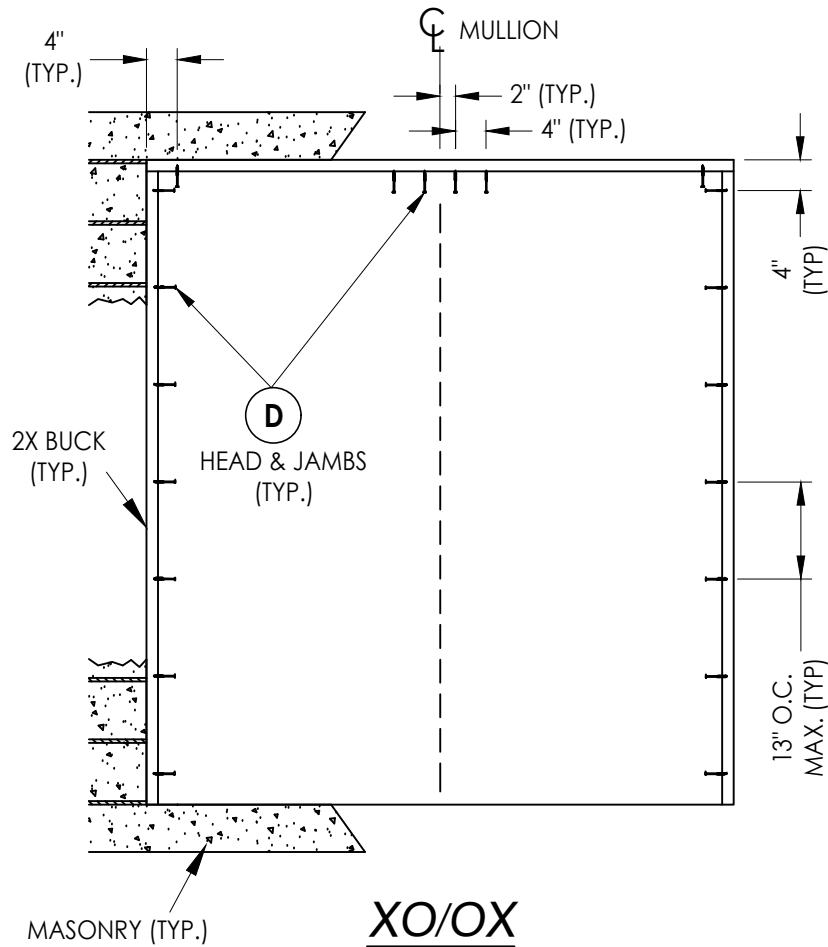
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CHK. BY: LFS

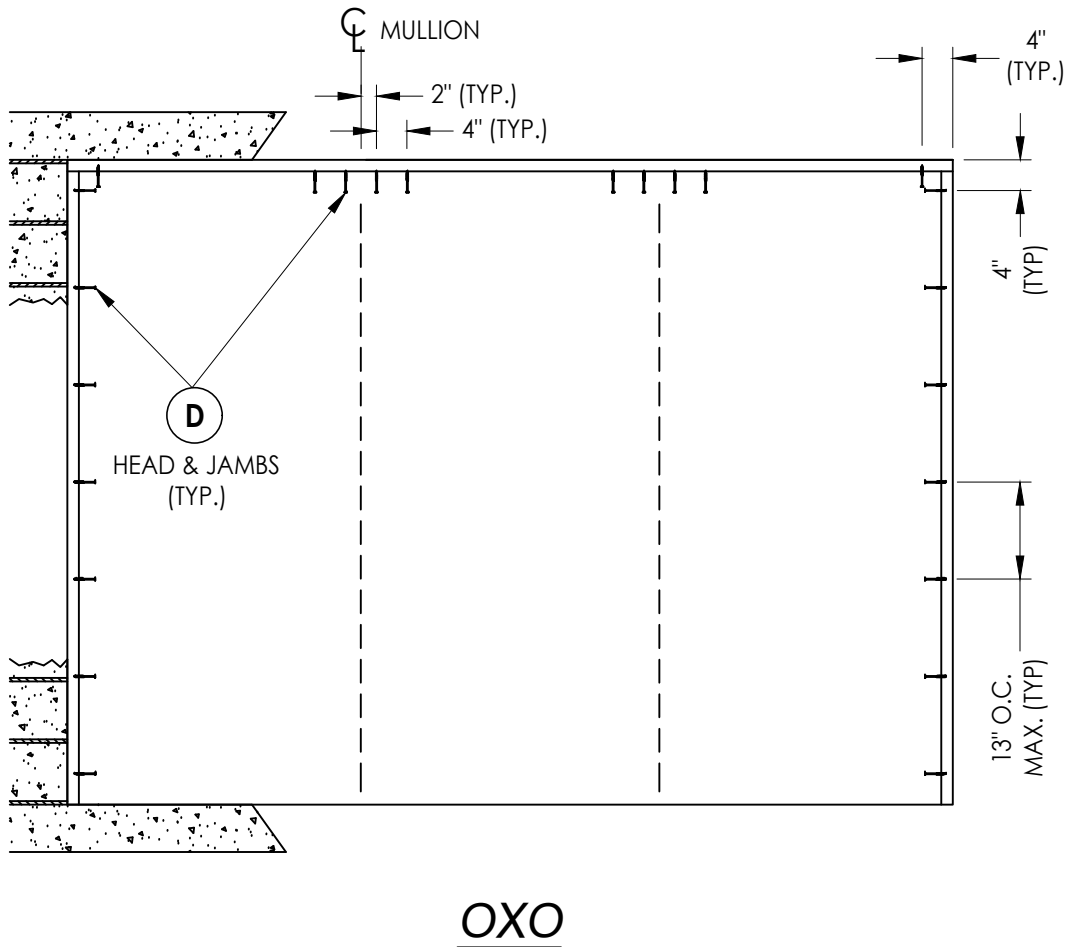
DRAWING NO.: FL-20698.5

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-20698.5	
SHEET	8 of 10

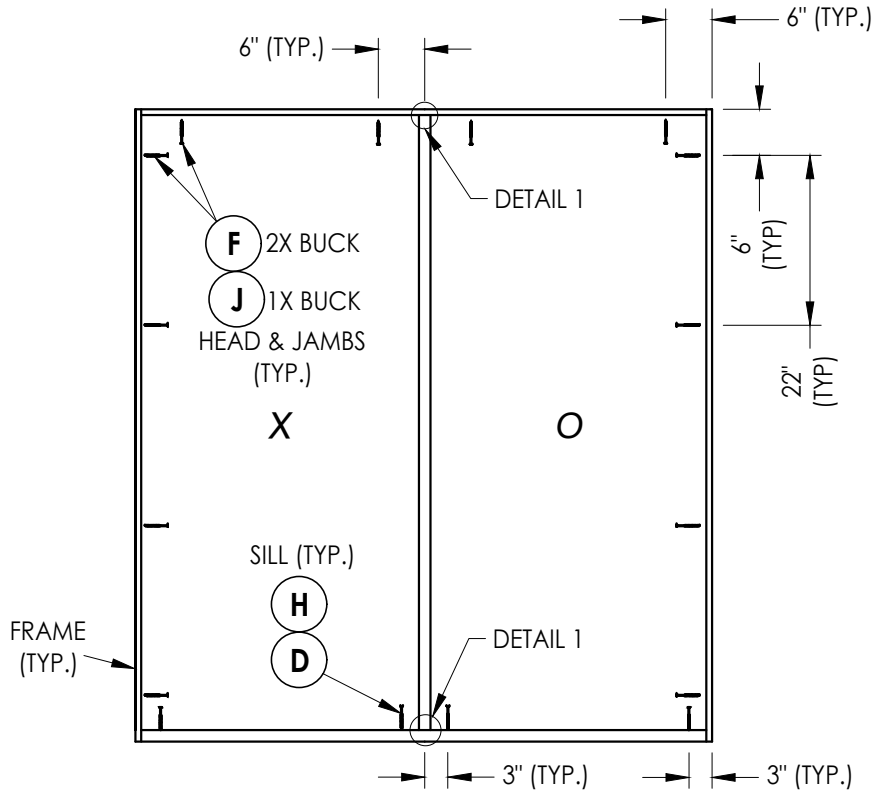
NO.	DATE	REVISIONS
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3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	8/06/20	UPDATE TO 7TH ED. (2020) FBC DAC
1	9/07/17	UPDATE TO 6TH ED. (2017) FBC LFS

PRODUCT: ENDURA	
PART OR ASSEMBLY: BUCK ANCHORING	

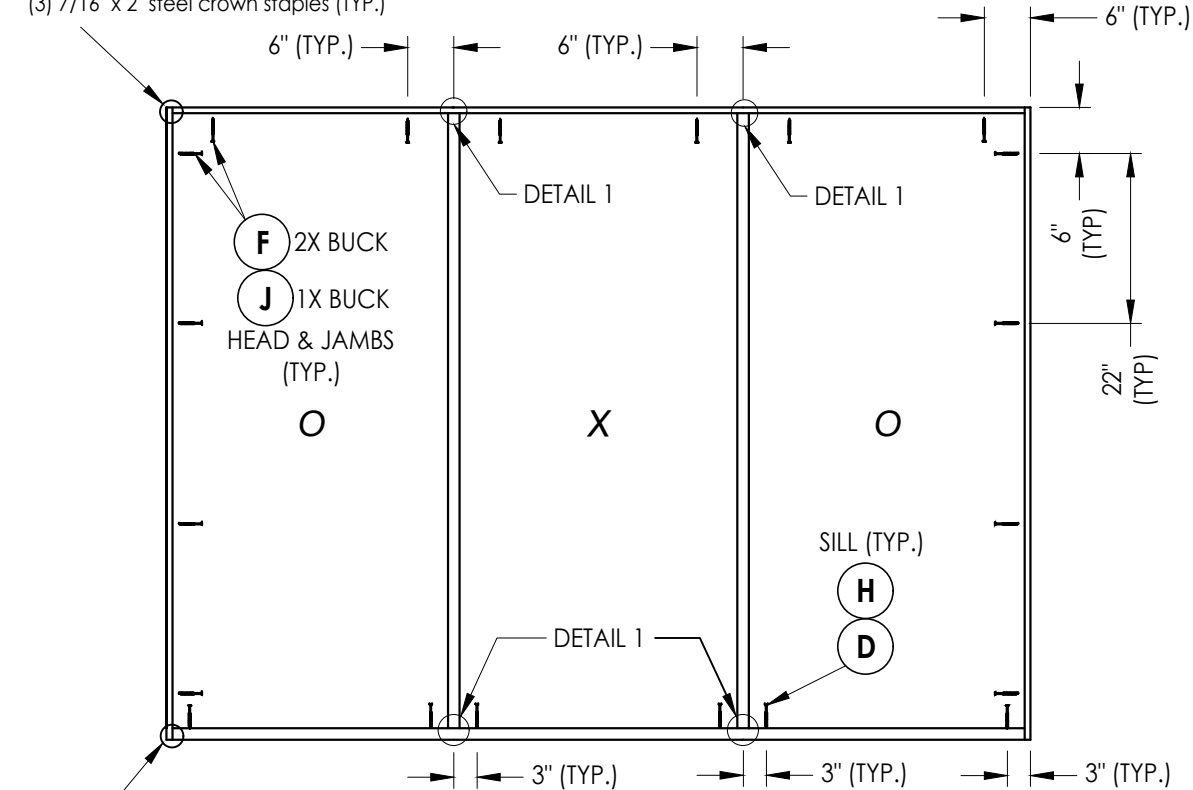
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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P.O. Box 230, Vairico, FL 33595
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

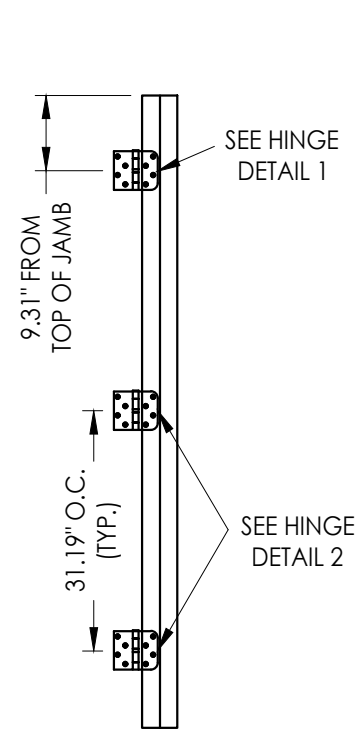
CORROSION RESISTANCE - SALTWATER ENVIRONMENT

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

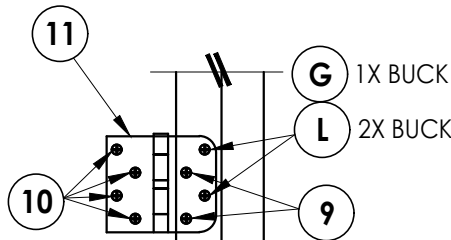


DETAIL 1

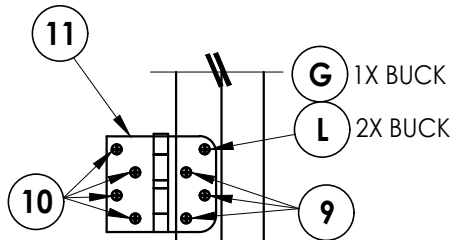
Integral mullion attachment



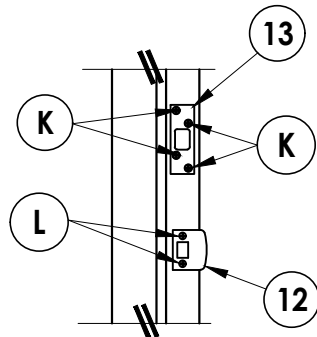
HINGE JAMB



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.

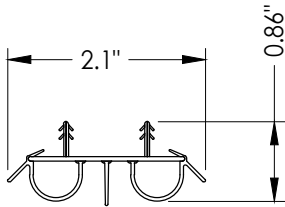
DWG. BY: JK

CHK. BY: LFS

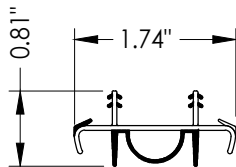
DRAWING NO.: FL-20698.5

SHEET 9 OF 10

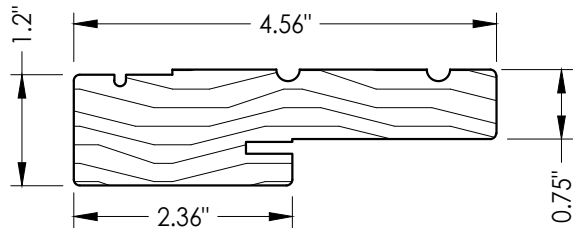
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2"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



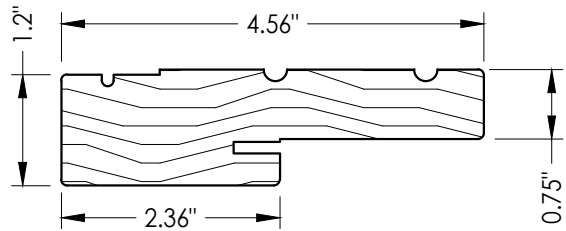
8 SWEEP



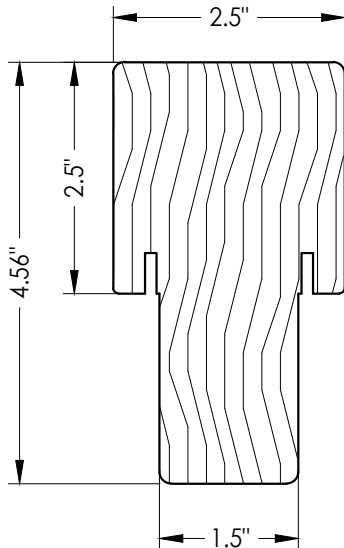
8A ARTICULATING SWEEP



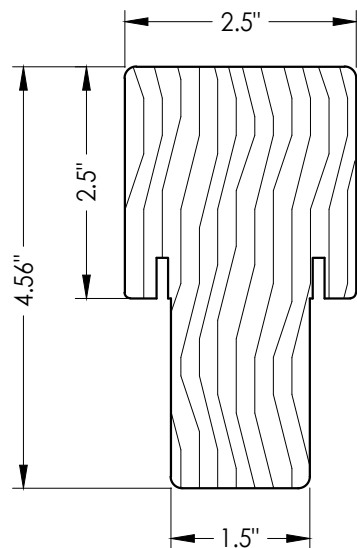
1 WOOD JAMB



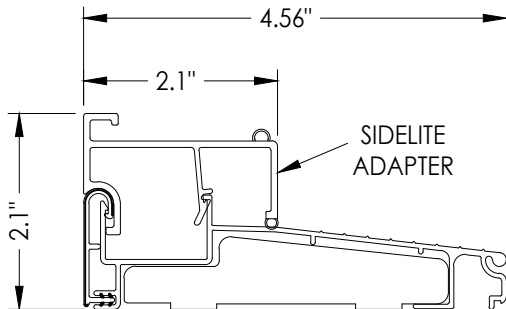
1A WOOD JAMB
FrameSaver (Endura)



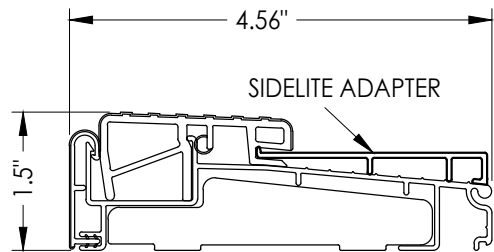
2 INTEGRAL MULLION



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



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



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

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LFS		BY	
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