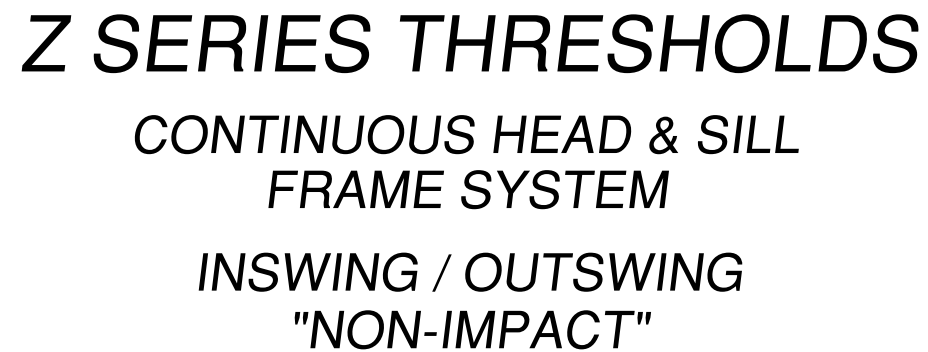
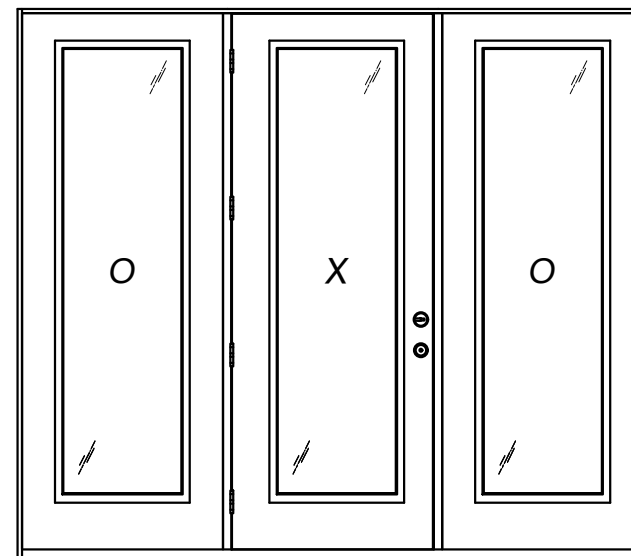


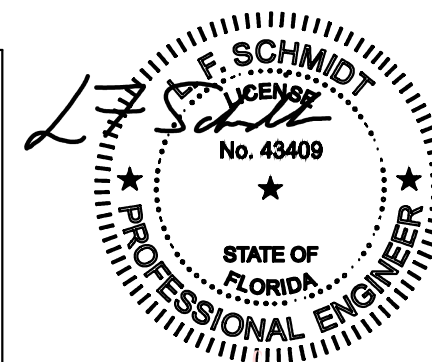


1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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)**



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.

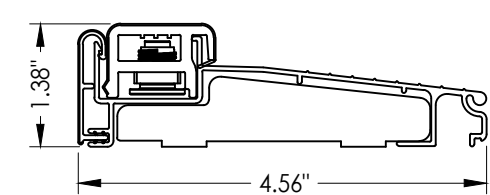
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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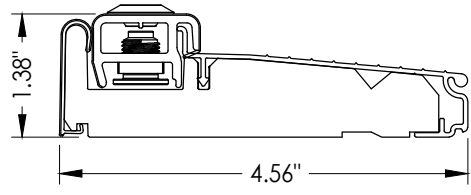
DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20698.12
SHEET	1 OF 10

R^{qW}
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

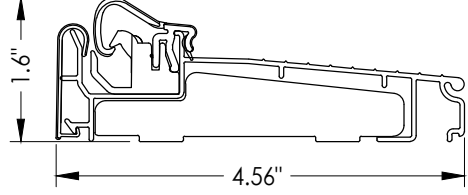
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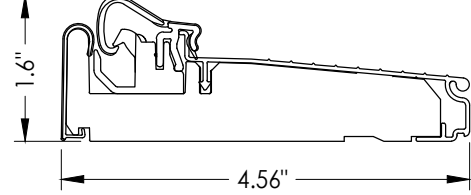
T1 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



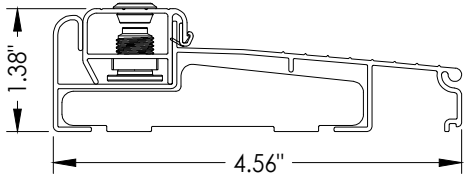
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ZAI4565FN



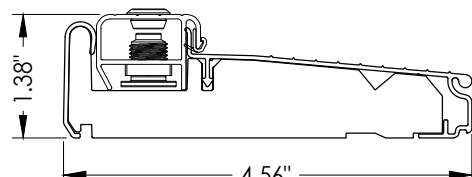
T6 INSWING ARTICULATING THRESHOLD
ZACL4565



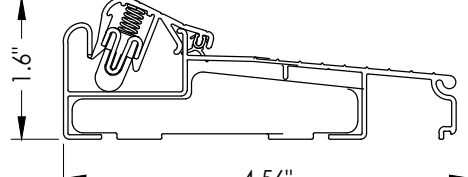
T7 INSWING ARTICULATING THRESHOLD
ZAC4565FN



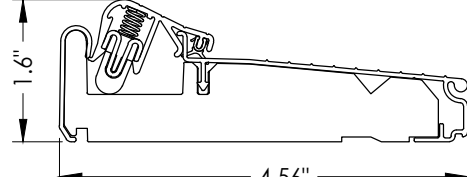
T3 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



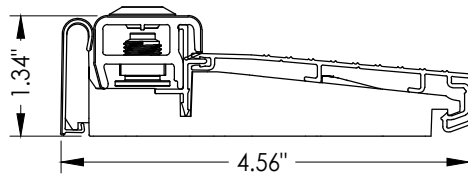
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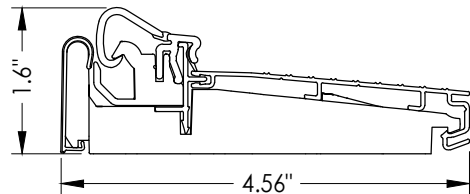
T8 INSWING ARTICULATING THRESHOLD
ZAC4565FN



T9 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



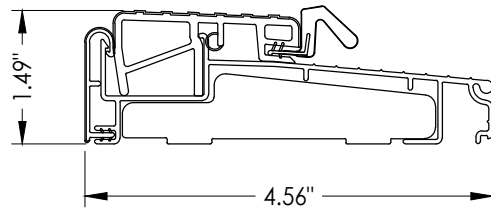
T5 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS



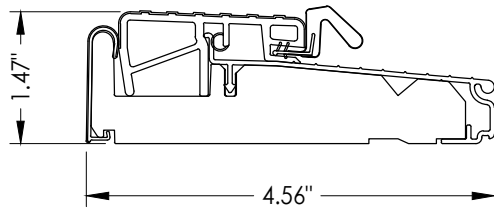
T10 INSWING ARTICULATING THRESHOLD
ZAC4565RDS

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

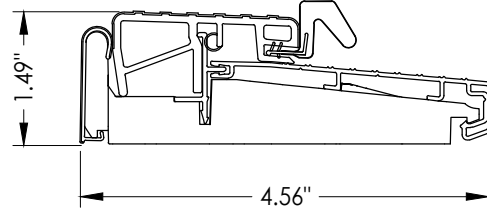
INSWING ARTICULATING THRESHOLD				
DOOR PANEL	CONFIGURATION	MAXIMUM FRAME SIZE	DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE GLAZED FIBERGLASS	OX / XO	74.75" X 97.94"	+35.0	-35.0
	OXO	112.2" X 97.94"		



T11 OUTSWING THRESHOLD
ZOB4565



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:
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FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
Z SERIES THRESHOLD DETAILS
& DESIGN PRESSURES

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

DATE: 5/26/16

SCALE: N.T.S.

DWG. BY: JK

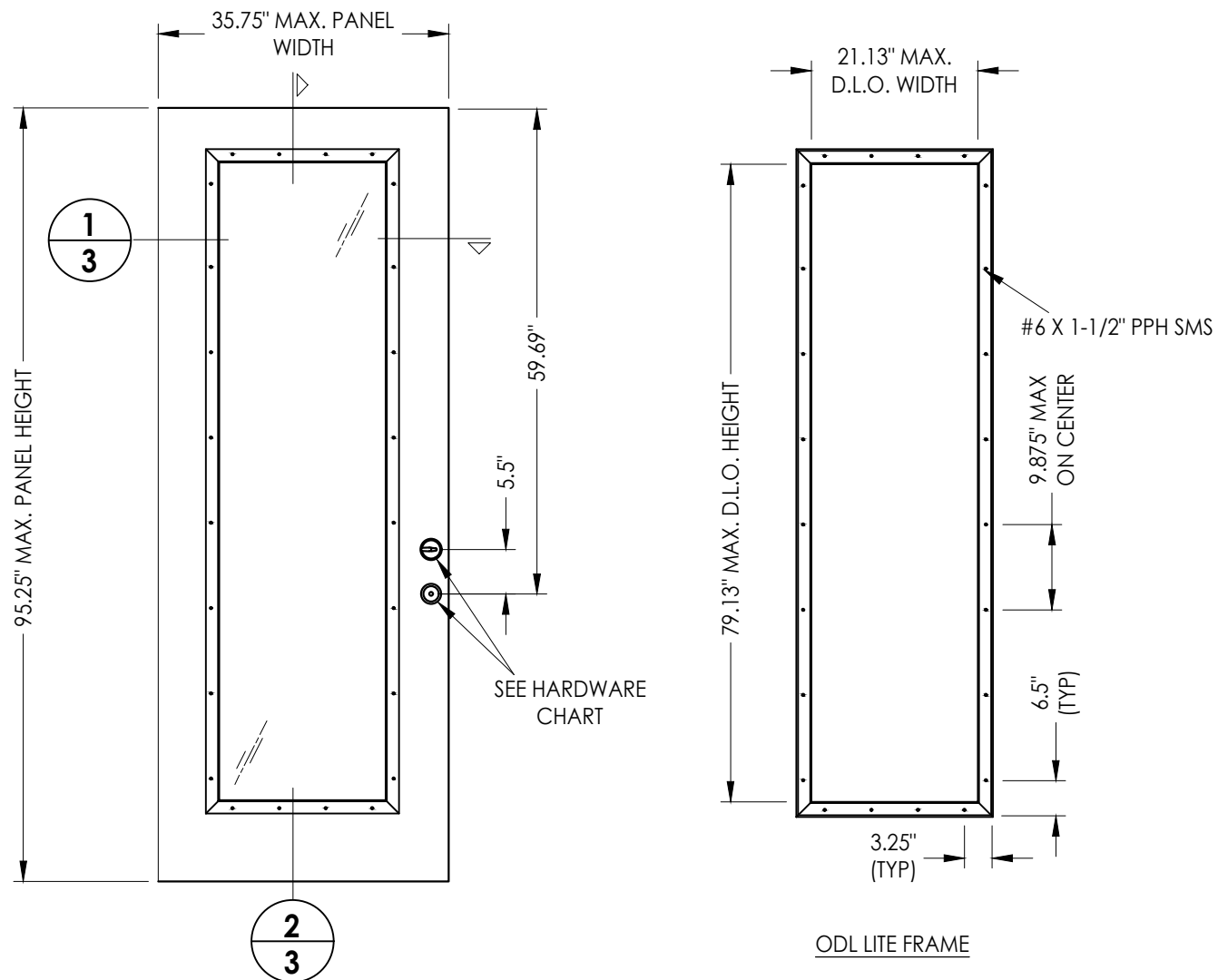
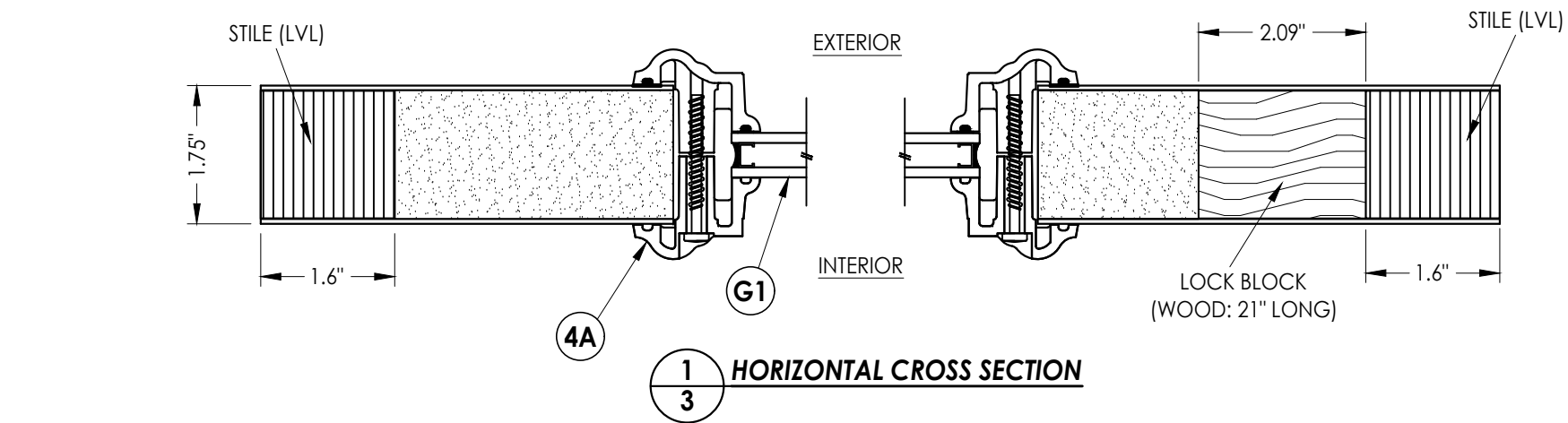
CHK. BY: LFS

DRAWING NO.:

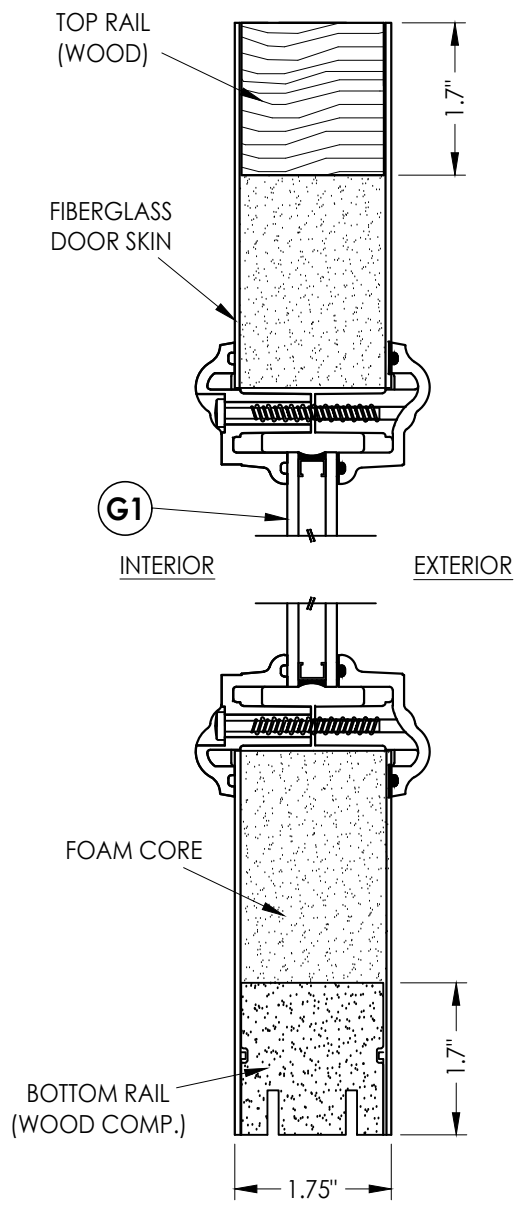
FL-20698.12

SHEET 2 OF 10

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)



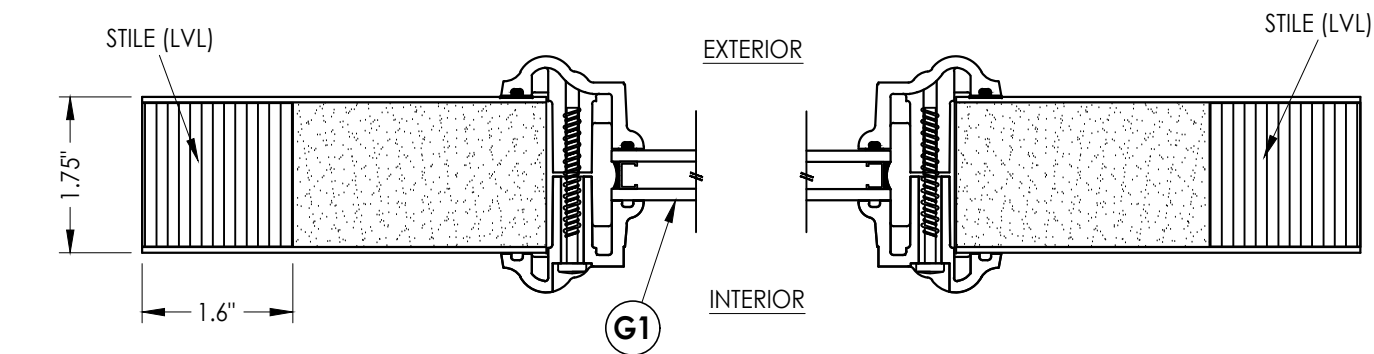
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-20698.12
SHEET 3 OF 10

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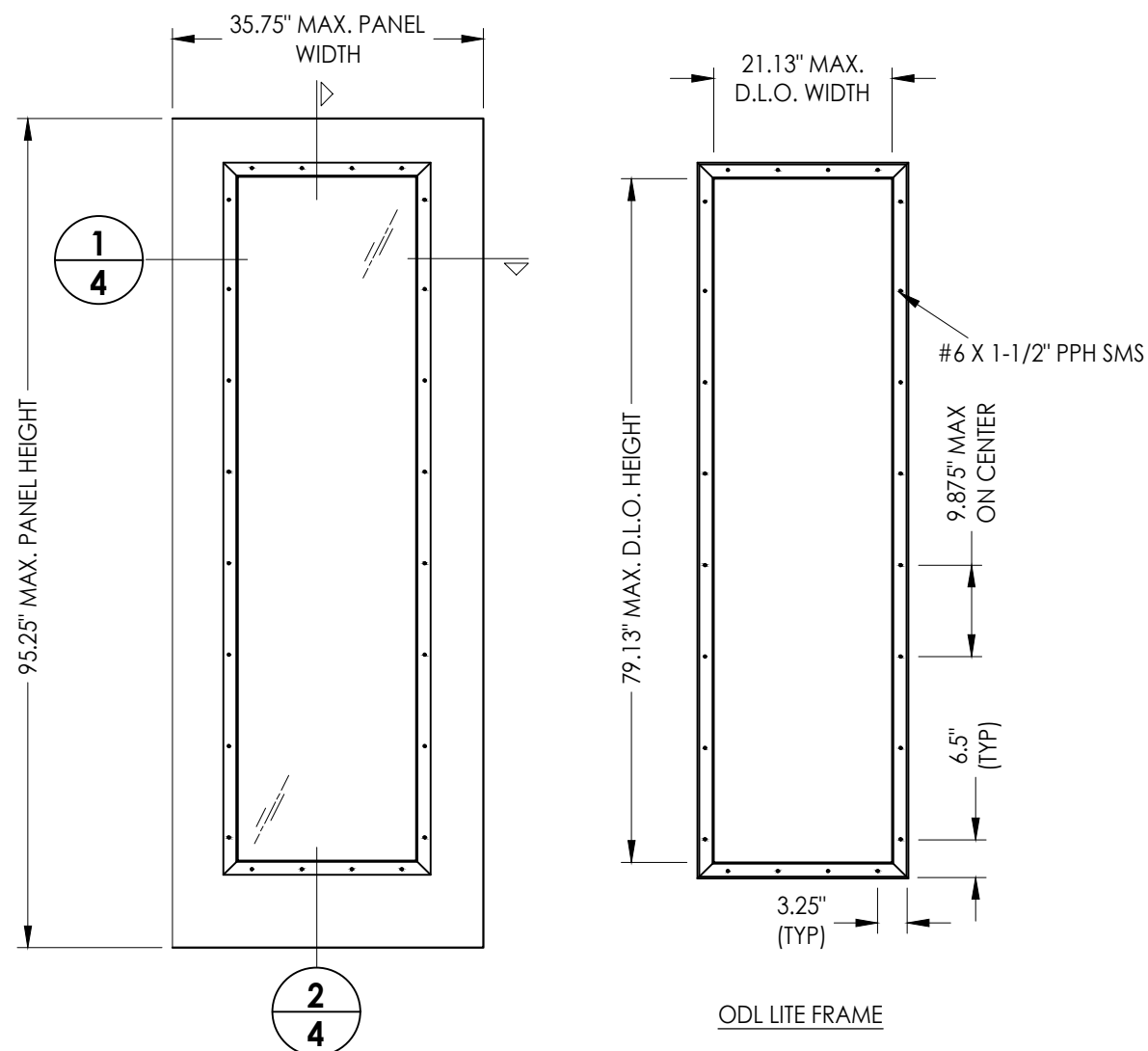
PRODUCT:	ENDURA
PART OR ASSEMBLY:	DOOR PANEL DETAILS

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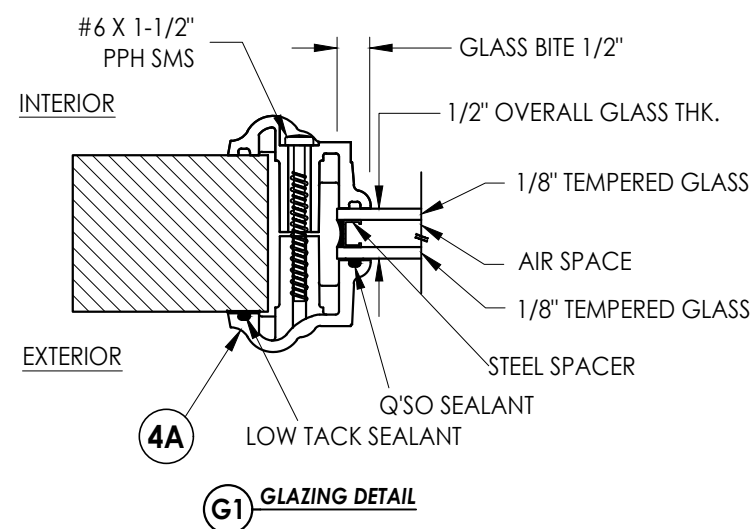


1 **HORIZONTAL CROSS SECTION**
4

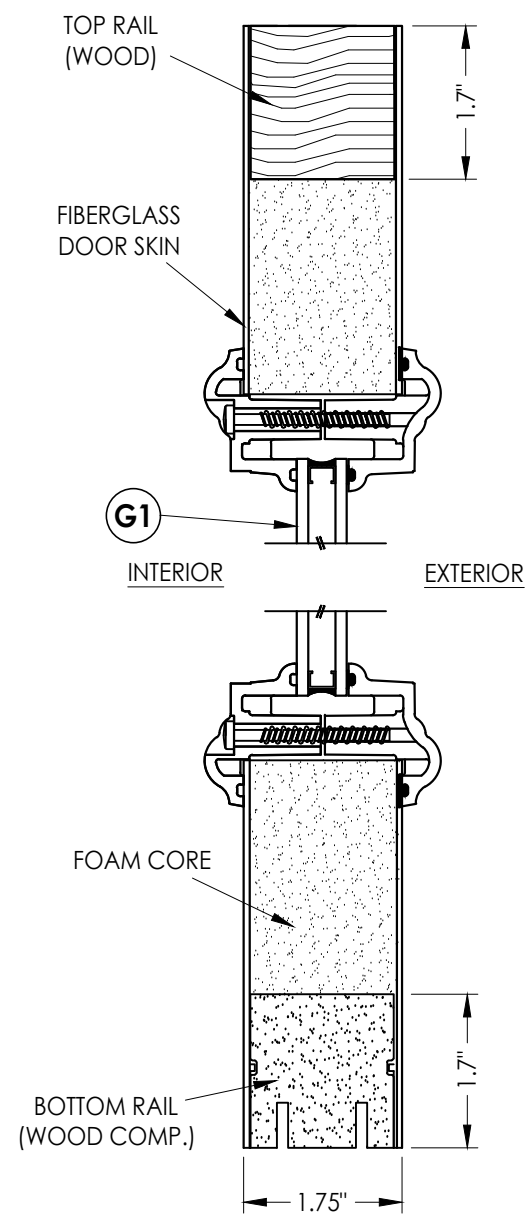


50 **SIDELITE PANEL**
Masonite
Fiberglass

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



4A ODL LITE FRAME
HP Polypropylene

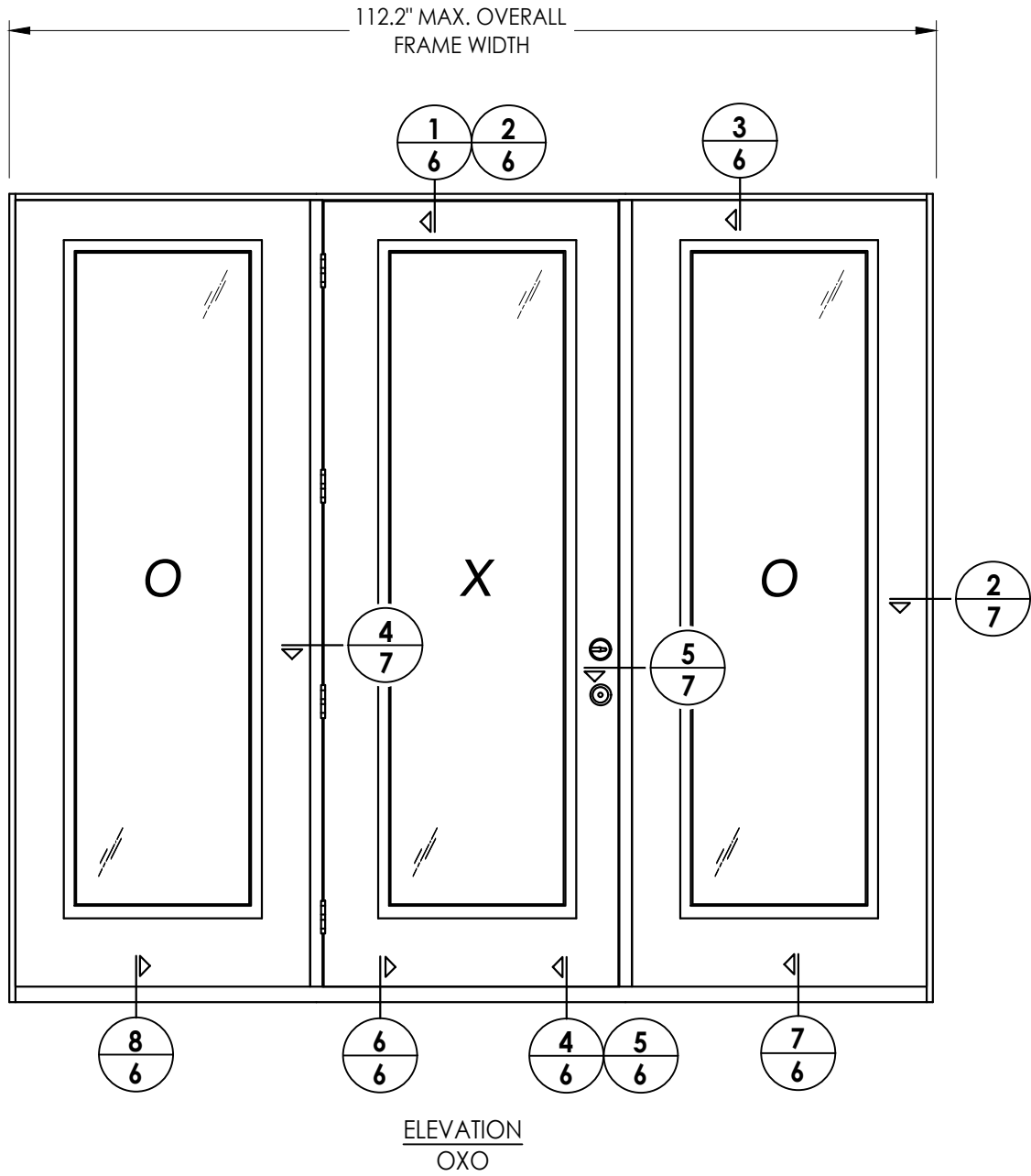
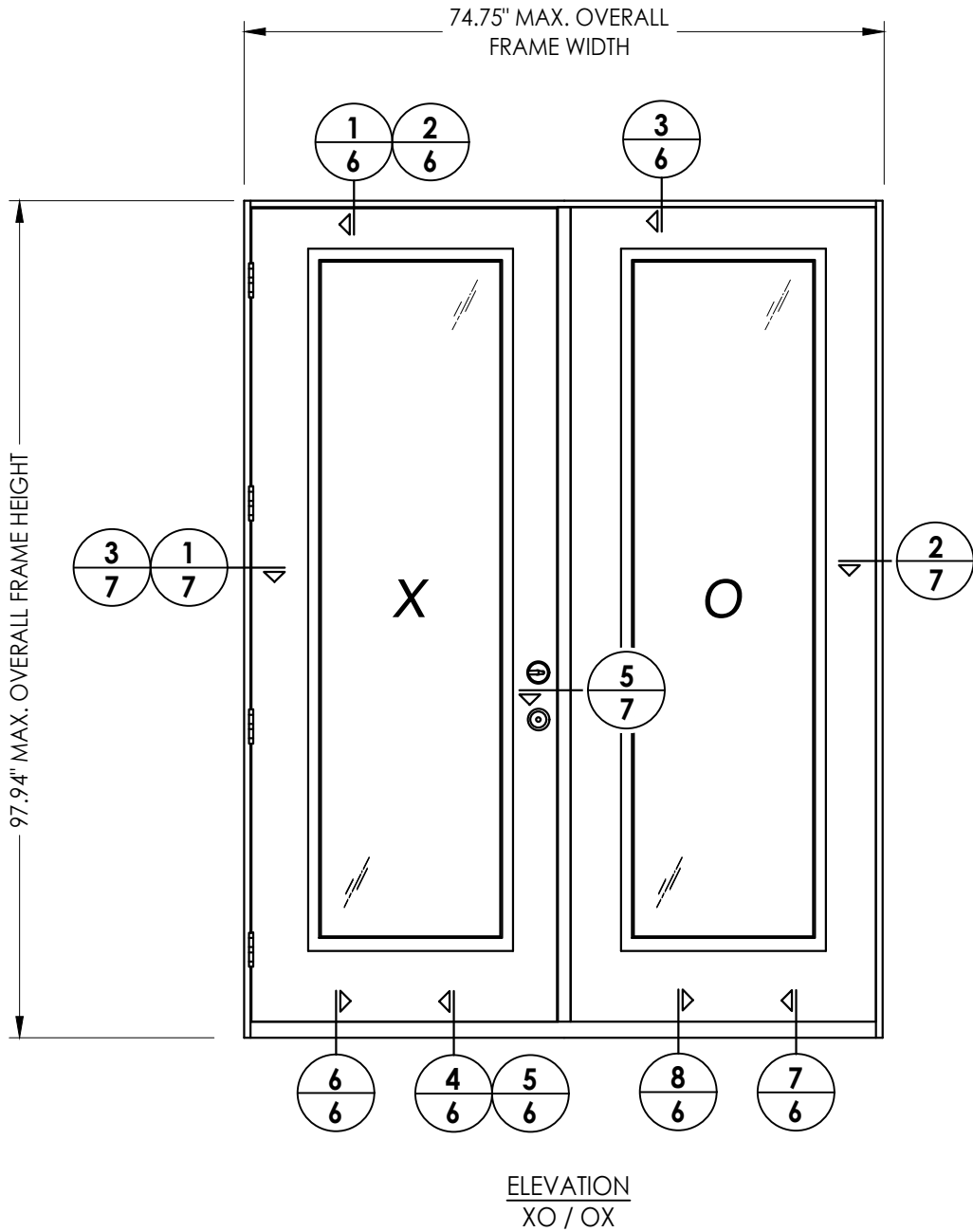


2 VERTICAL CROSS SECTION
4

[illegible]

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FBPE Registry No. 9813



DATE: 5/26/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20698.12
SHEET 5 OF 10

NO.	DATE	REVISIONS
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

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Diagram illustrating the Vertical Cross Section of a connection. The diagram shows a steel beam (labeled T11, T12, T13) embedded in a concrete slab (labeled D). The connection is shown in a cross-section, with the interior side on the left and the exterior side on the right. A vertical displacement of 50 is indicated. A horizontal displacement of T15 is indicated. A moment M is applied to the beam. A note "SEE NOTE 1" points to the connection area. A dimension line indicates a minimum embedment depth of 1-1/4 inches.

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

8 **VERTICAL CROSS SECTION**

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

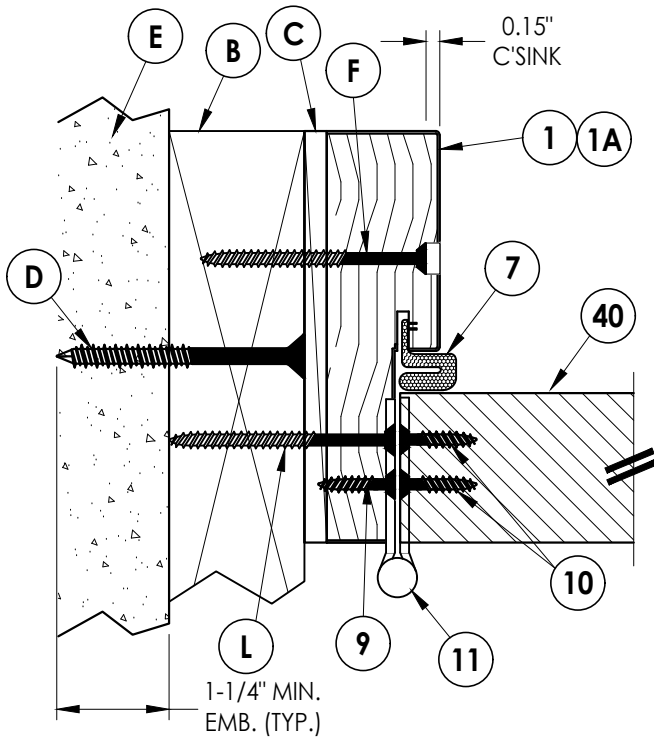


DATE:	5/26/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20698.12
SHEET	6 OF 10

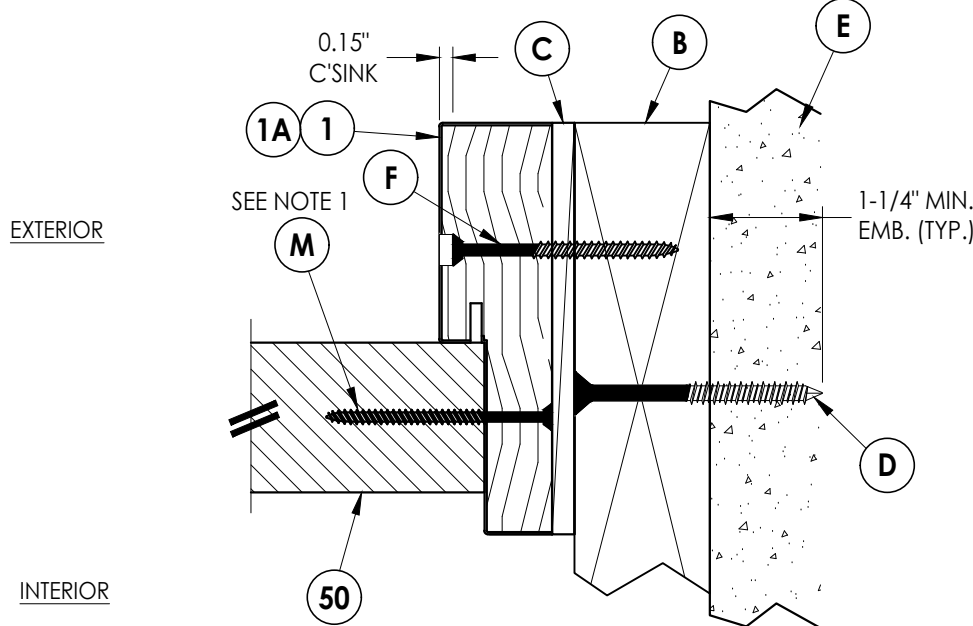
ASSEMBLY:
**VERTICAL CROSS
SECTIONS**

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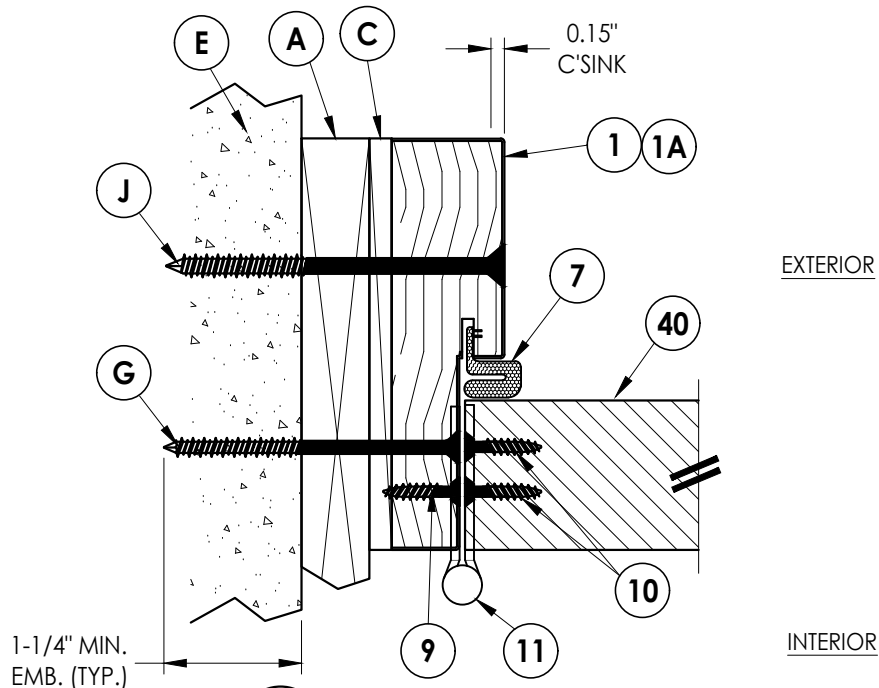


1
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

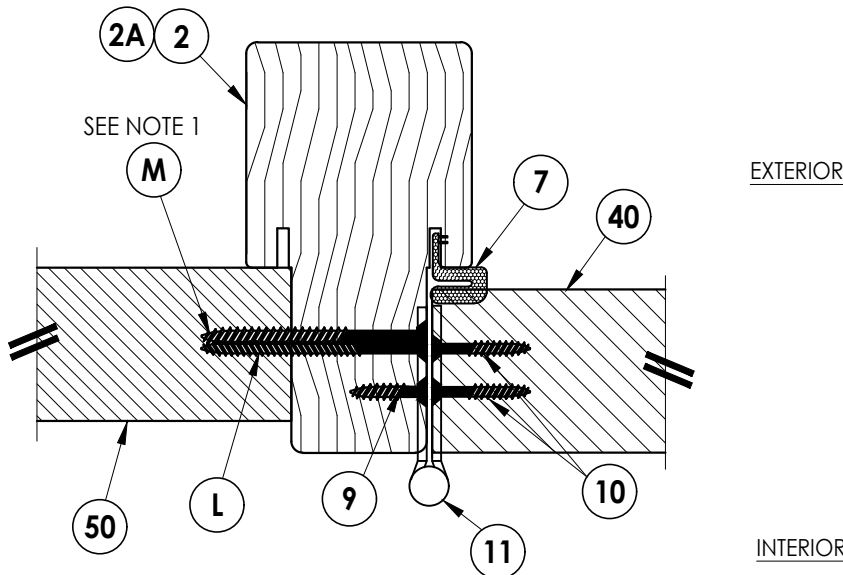


2
7 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)
2X Buck Construction

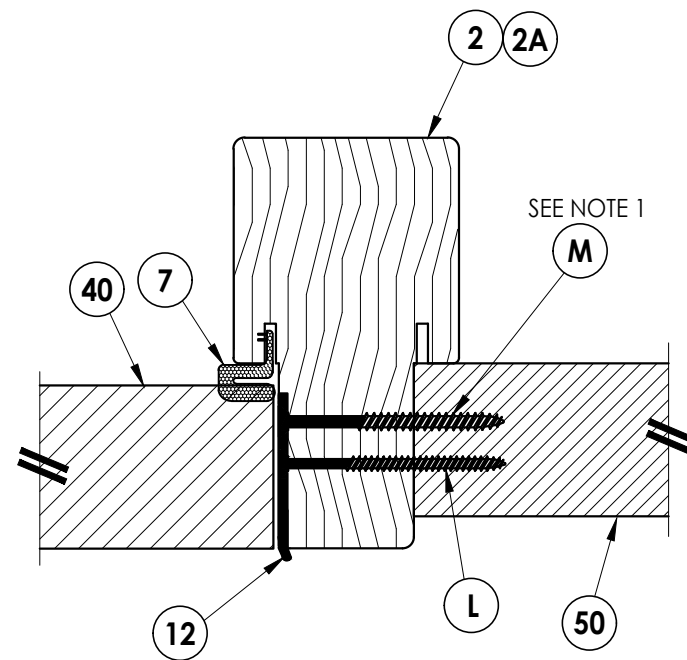
NOTE:
1. Spacing for sidelite screws (item M): 6.5", 32.5",
57.25" and 85" from head to sill (4 total).



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:
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: ENDURA

PART OR ASSEMBLY:
HORIZONTAL CROSS
SECTIONS

NO.	DATE	BY
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

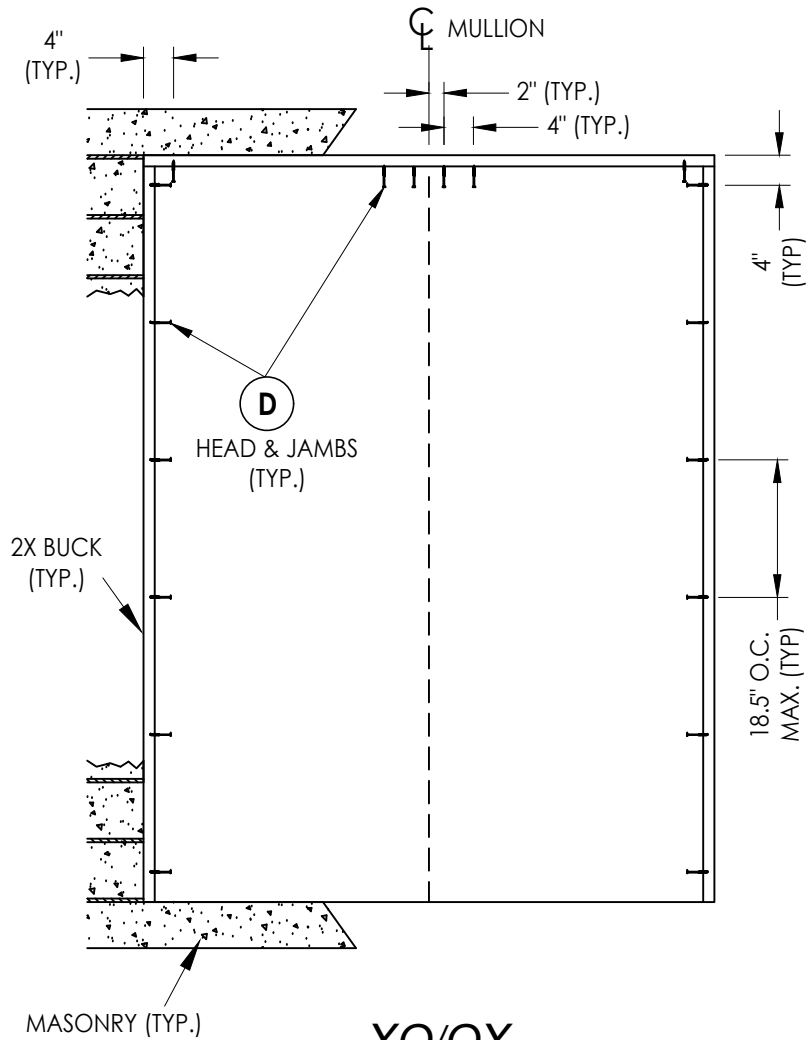
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DWG. BY: JK

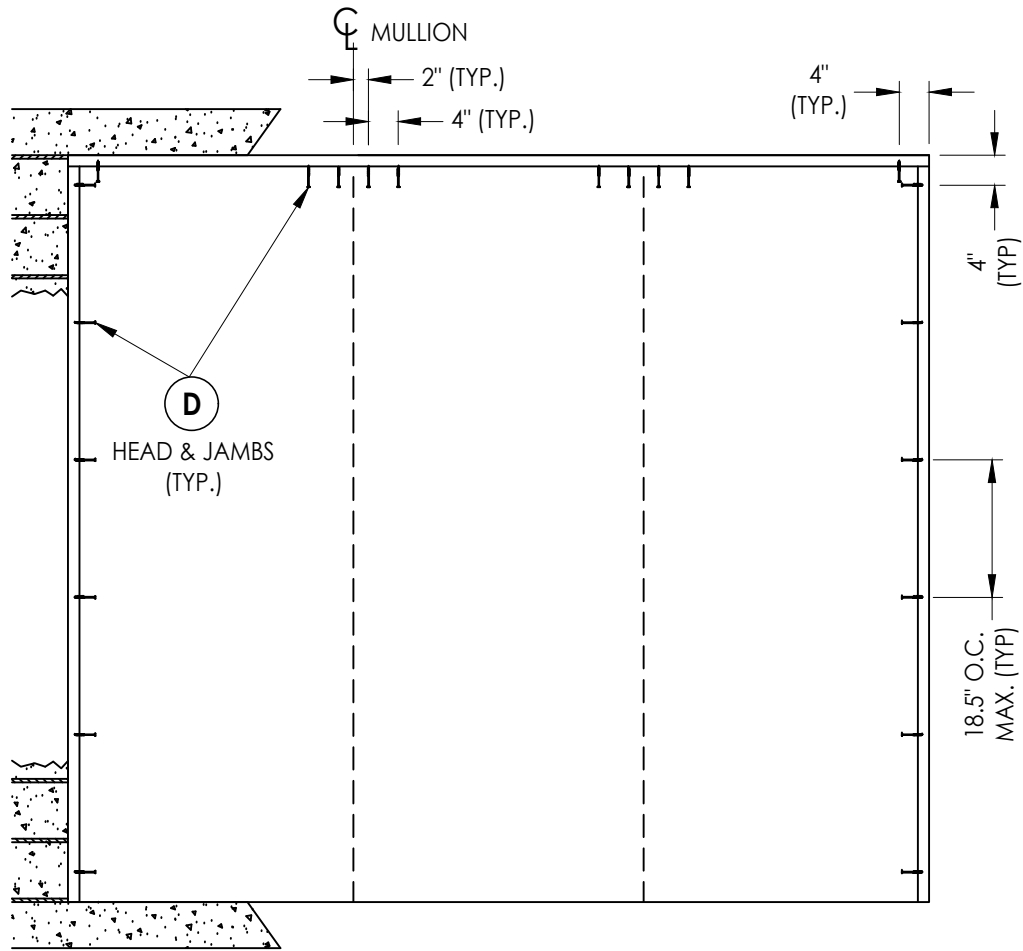
CHK. BY: LFS

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

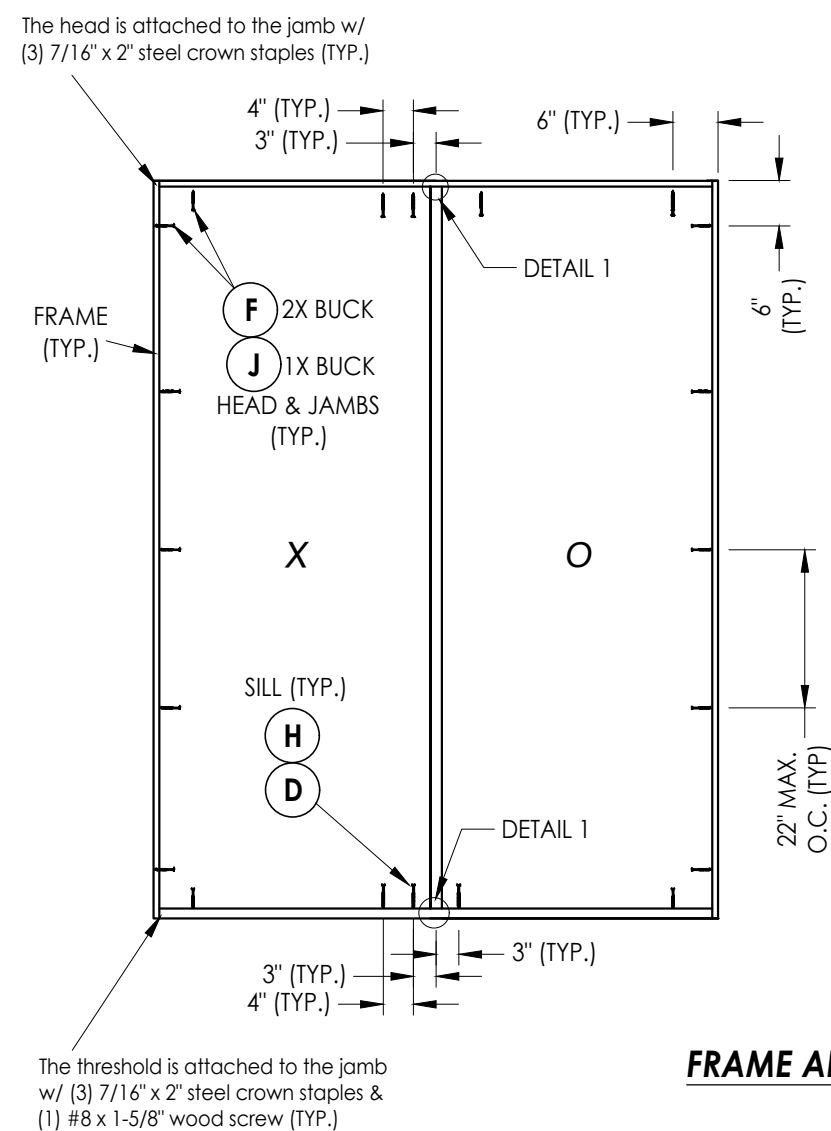
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2	8/06/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
1	9/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
NO.	DATE				BY

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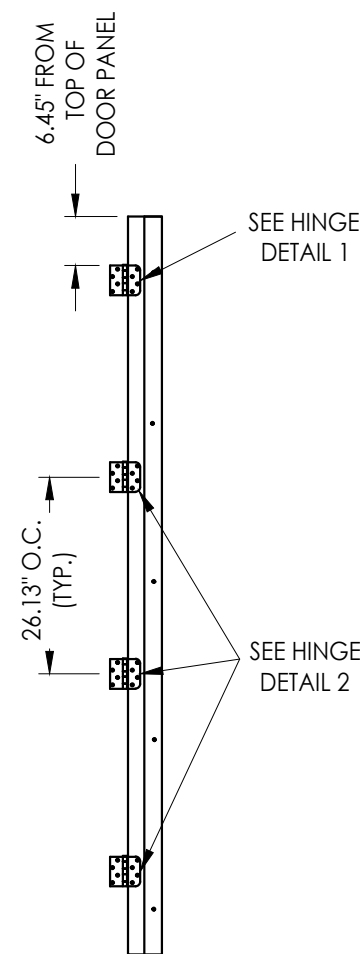
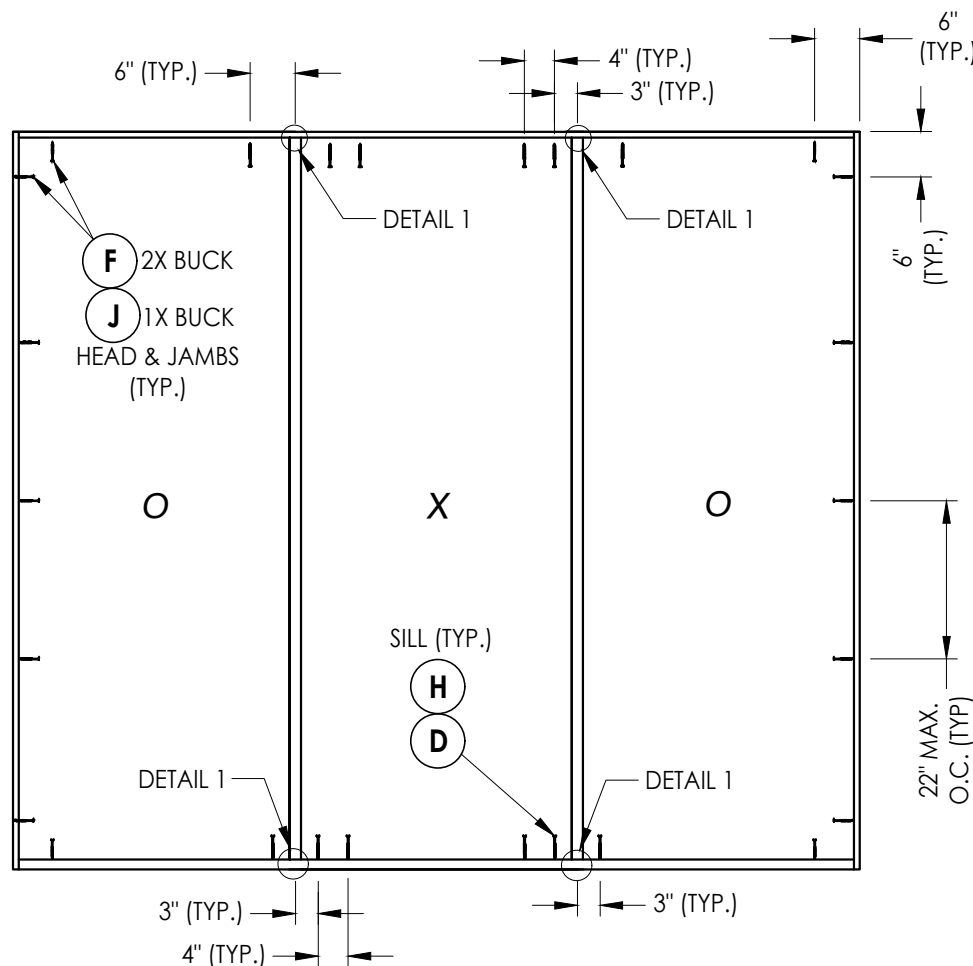
PRODUCT:	ENDURA
PART OR ASSEMBLY:	BUCK ANCHORING

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

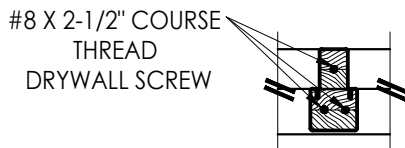
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FRAME ANCHORING

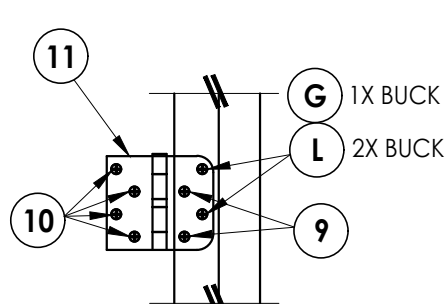


HINGE JAMB

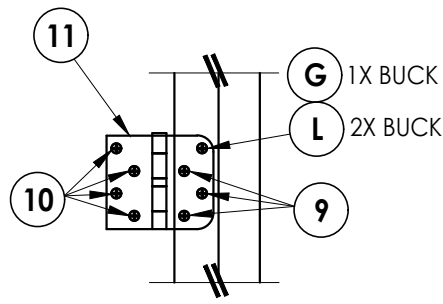


DETAIL 1

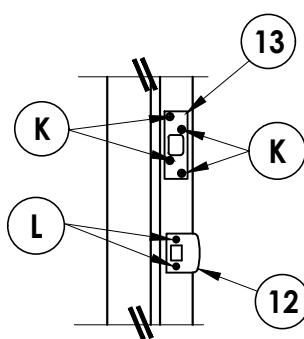
Integral mullion attachment



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 ULTRAON®	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.

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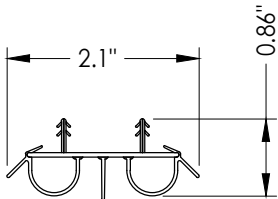
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

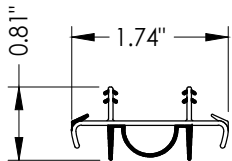
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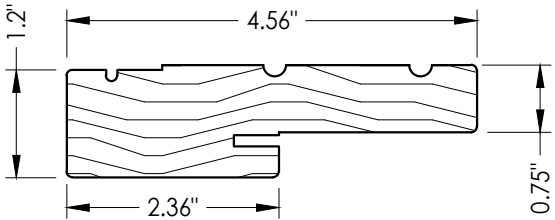
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2"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



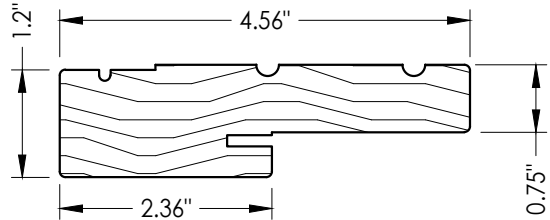
8 SWEEP



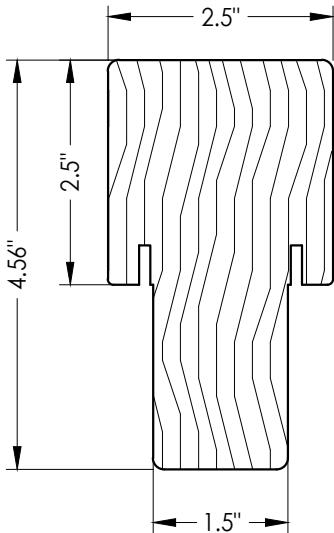
8A ARTICULATING SWEEP



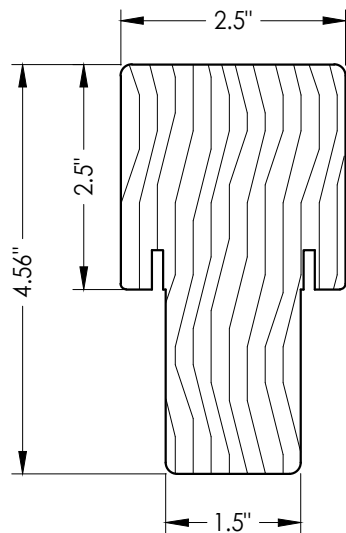
1 WOOD JAMB



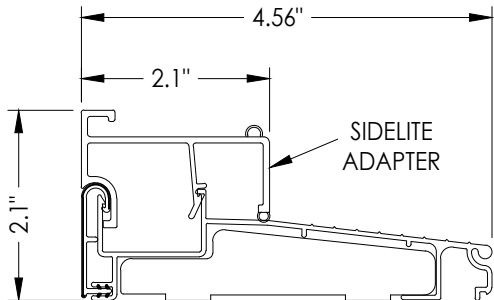
1A WOOD JAMB
FrameSaver (Endura)



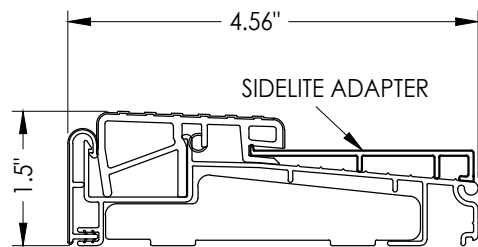
2 INTEGRAL MULLION



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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PRODUCT:
ENDURA

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
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 10 OF 10