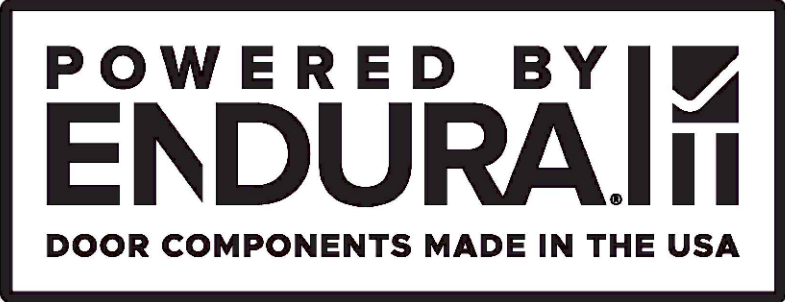


Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg



TRILENNIUM[®]

MULTI-POINT LOCK

w/ Plastpro Opaque Fiberglass Single Door w/ Sidelite(s)

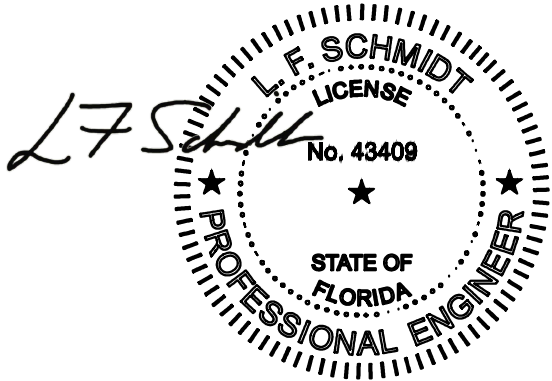
INSWING / OUTSWING

"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. 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, design pressures, & general notes
2	Door panel details
3	Sidelite panel details
4	Elevations
5	Vertical cross sections
6	Horizontal cross sections
7	Lock set details
8	Buck anchoring
9	Frame anchoring & hardware details
10	Bill of materials and components

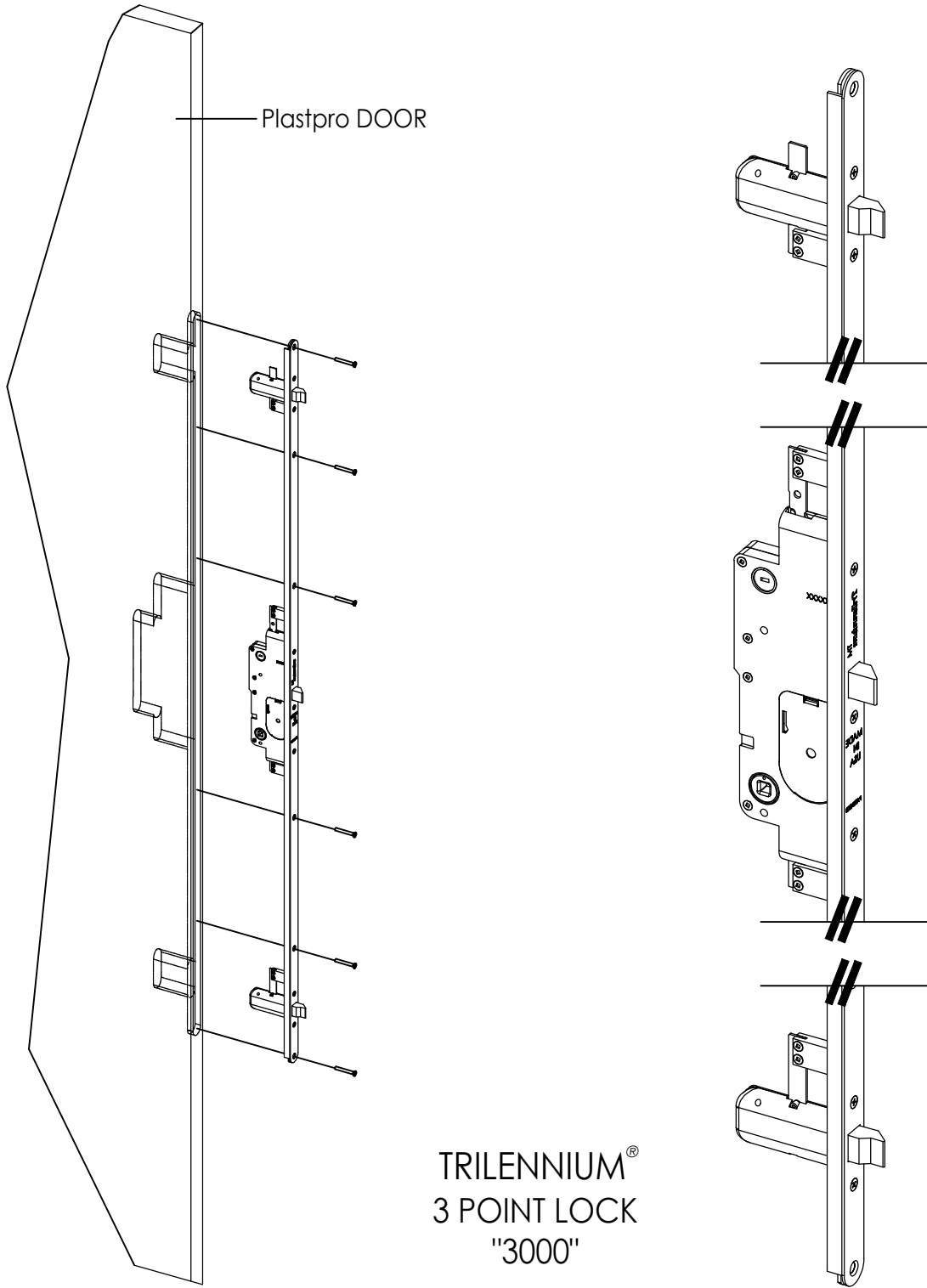


Digitally signed by Lyndon F Schmidt
Date: 2026.07.19 09:37:40 -04'00'

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



TRILENNIUM [®] MULTI-POINT LOCK by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
PLASTPRO Opaque (Fiberglass)	INSWING	112.25" x 81.94"	+30.0	-30.0
	OUTSWING	112.25" x 81.0"	+35.0	-35.0

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

ENDURA

TRILENNIUM[®] MULTI-POINT LOCK by ENDURA

Part or Assembly:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	4/16/16	ADD ALUMINUM ARTICULATING SILL	RW	
NO.	DATE			BY

REVISIONS

DATE: 1/14/16

SCALE: N.T.S.

DWG. BY: JK

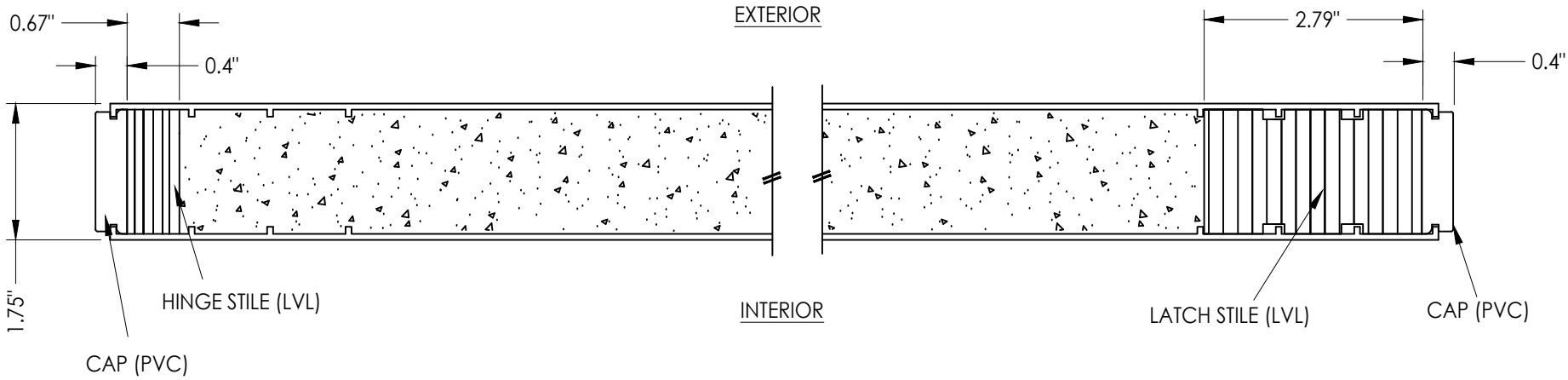
CHK. BY: LFS

DRAWING NO.: FL-15384.13

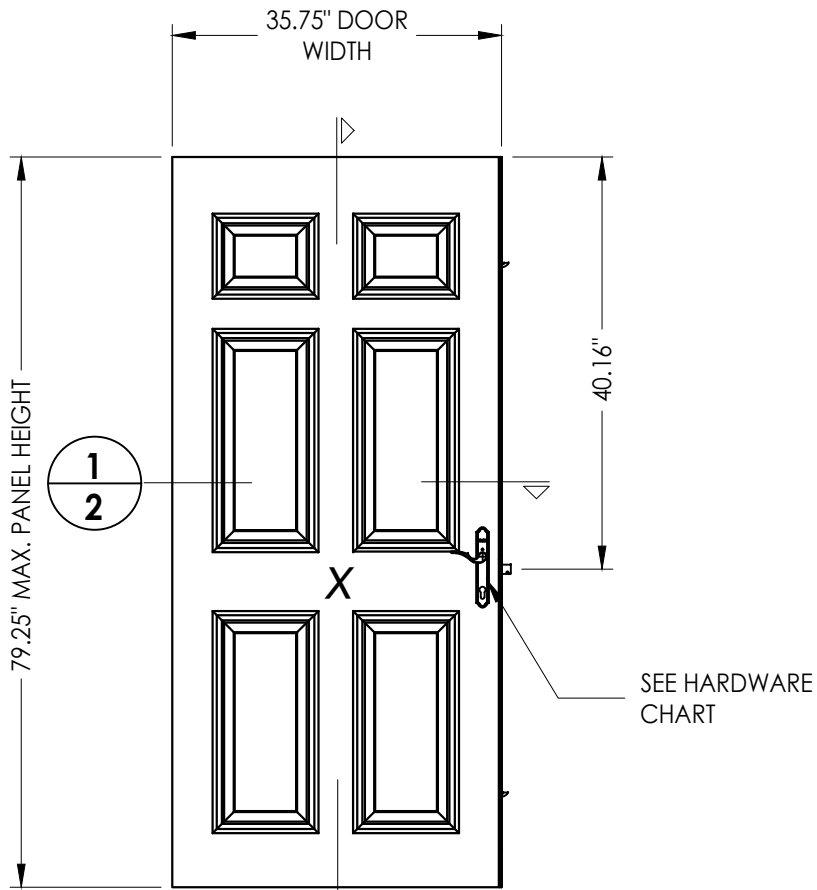
SHEET 1 OF 10

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

Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg

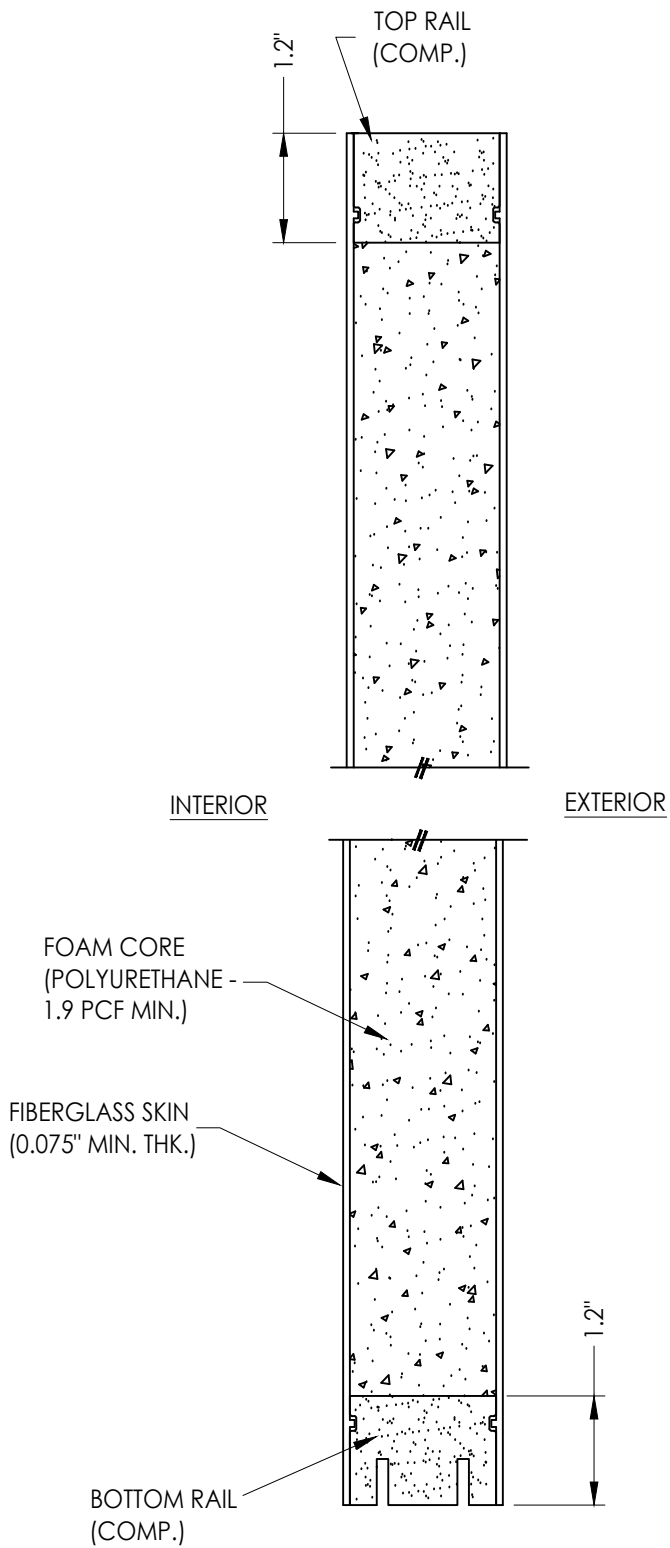


1
2 HORIZONTAL CROSS SECTION



HARDWARE TABLE	
MANUFACTURER	MODEL
Endura	Trilennium® 3000 Series Multi-point lock (3pt.)

40 DOOR PANEL
Plastpro
Fiberglass



2
2 VERTICAL CROSS SECTION

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

ENDURA

PART OR ASSEMBLY:
DOOR PANEL DETAILS

REVISIONS

NO.	DATE	DESCRIPTION
5	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	9/26/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	4/16/16	ADD ALUMINUM ARTICULATING SILL RW
		BY

DATE: 1/14/16

SCALE: N.T.S.

DWG. BY: JK

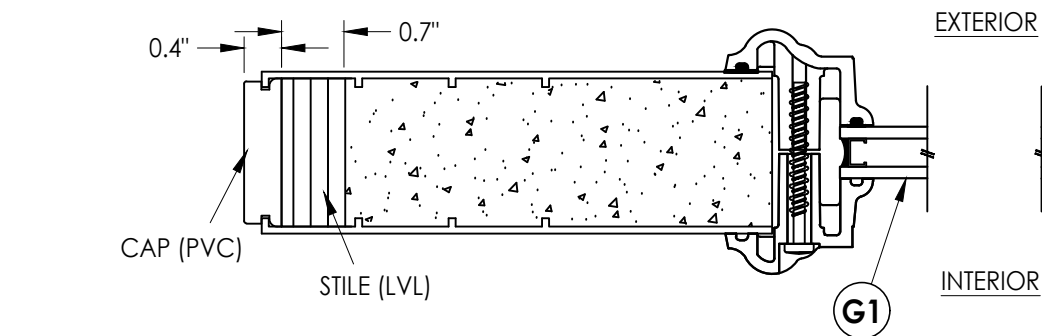
CHK. BY: LFS

DRAWING NO.: FL-15384.13

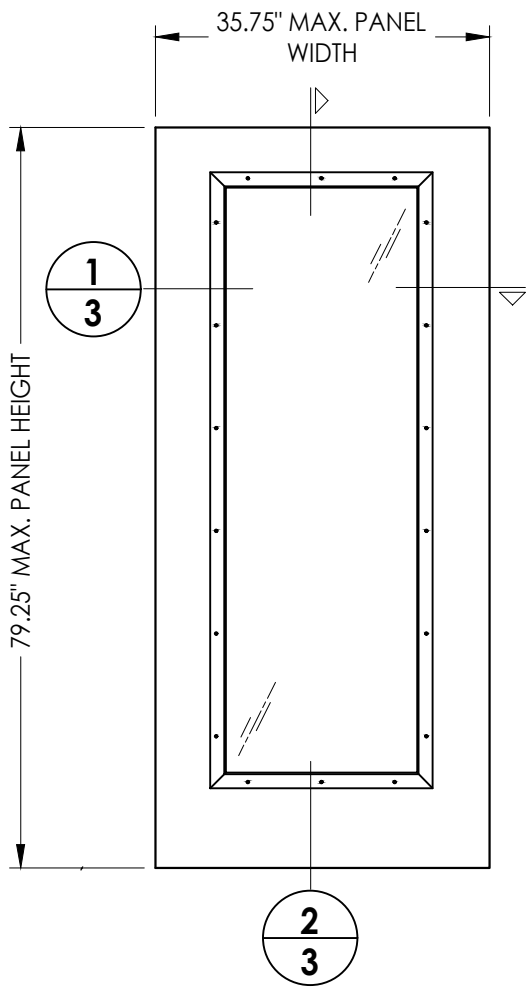
SHEET 2 OF 10

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

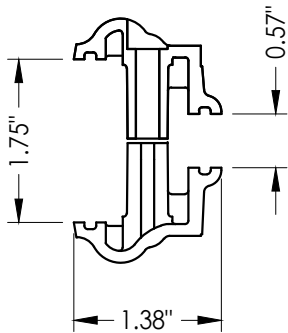
Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg



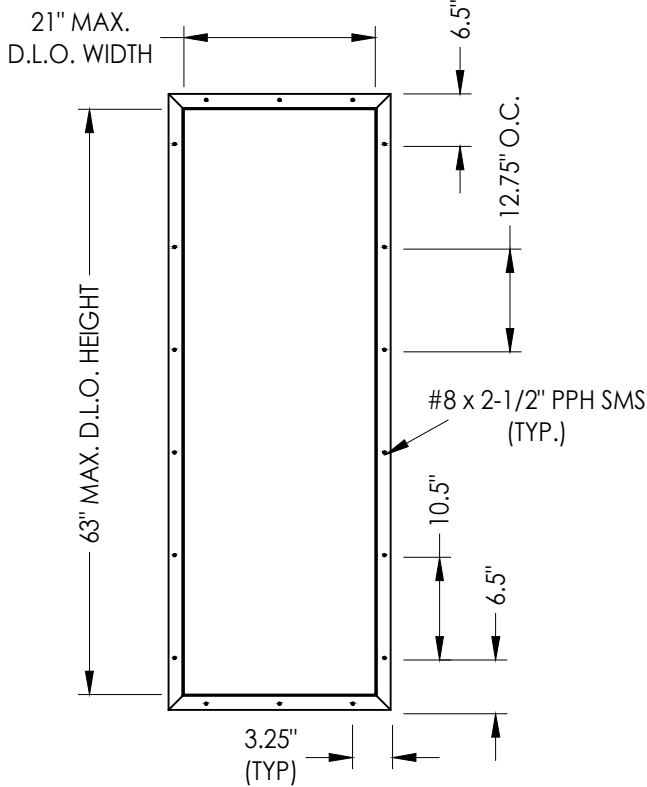
1
3 HORIZONTAL CROSS SECTION



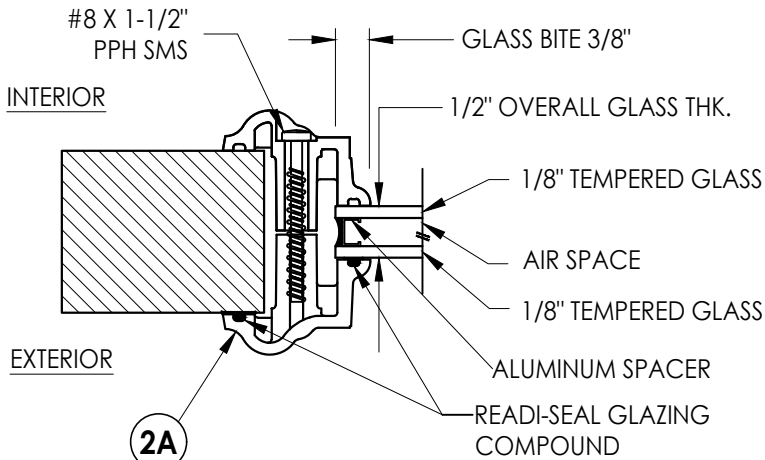
50 SIDELITE PANEL
Plastpro
Fiberglass



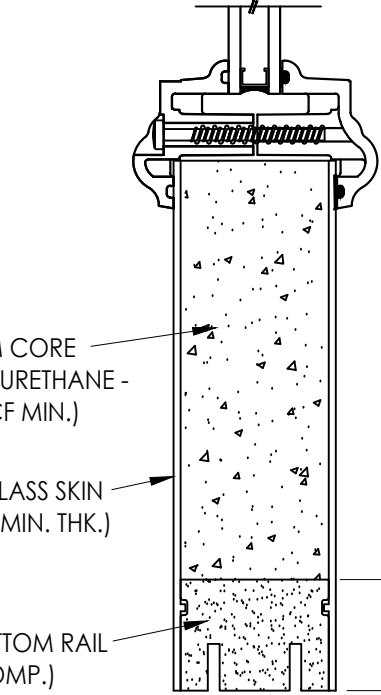
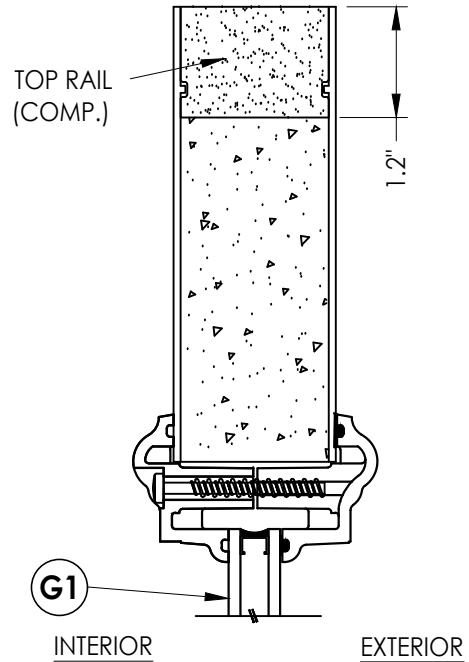
2A ODL LITE FRAME
HP Polypropylene



ODL LITE FRAME



2A G1 GLAZING DETAIL



2
3 VERTICAL CROSS SECTION

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:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS			
		DATE	BY	REVISION	REVISION
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	4/16/16	ADD ALUMINUM ARTICULATING SILL	RW		

DATE: 1/14/16

SCALE: N.T.S.

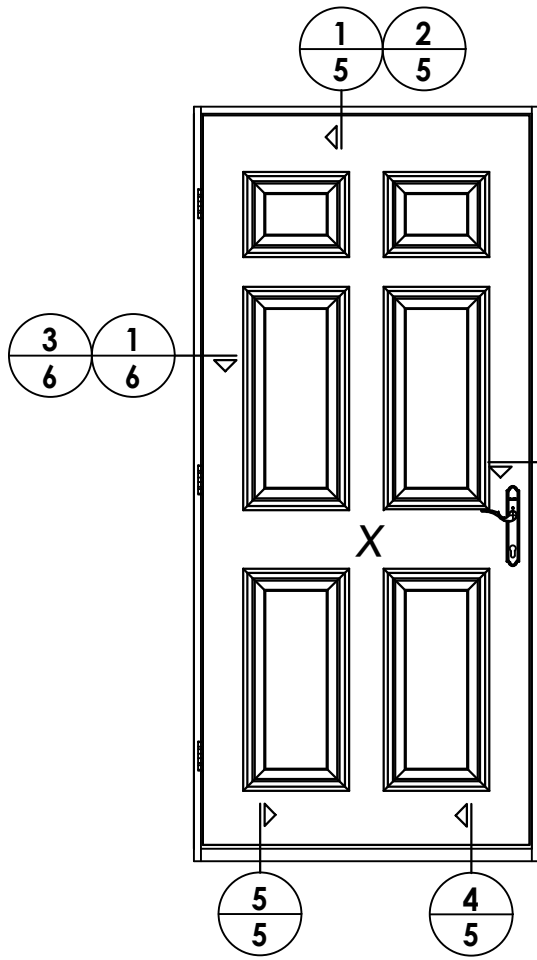
DWG. BY: JK

CHK. BY: LFS

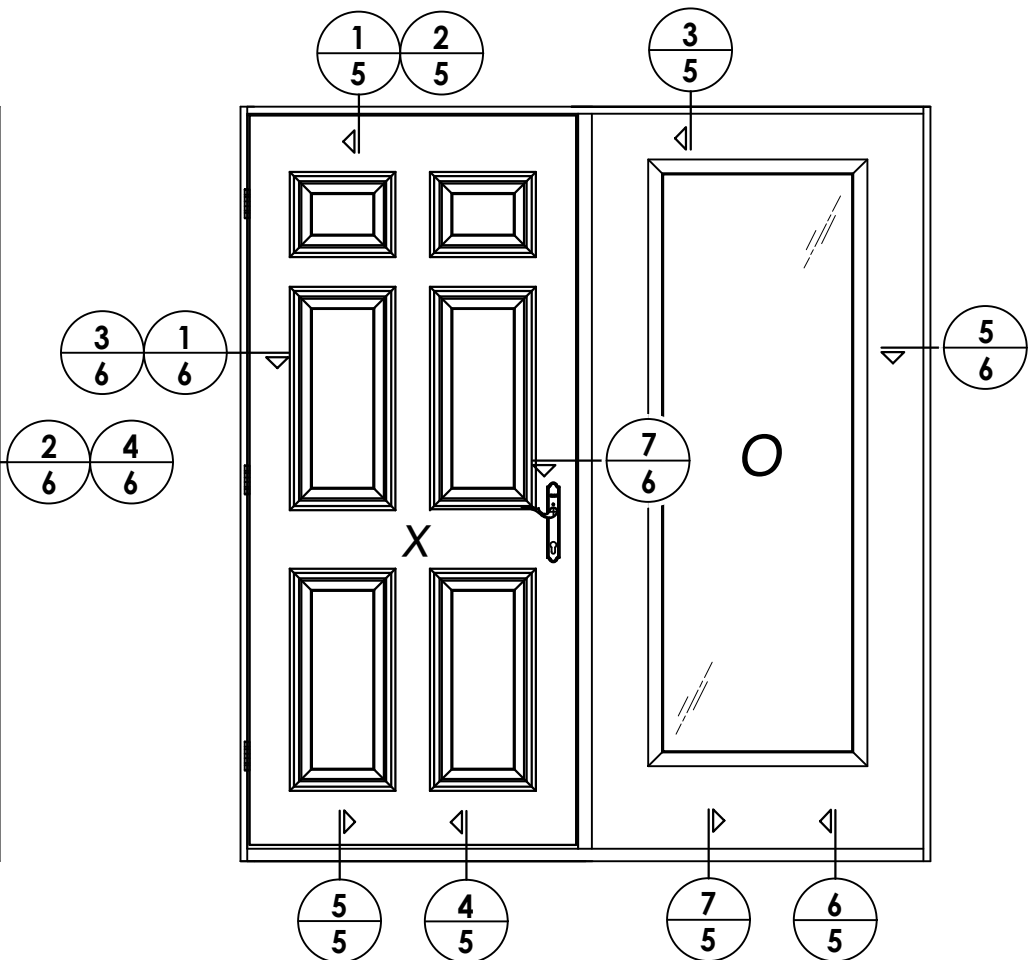
DRAWING NO.: FL-15384.13

SHEET 3 OF 10

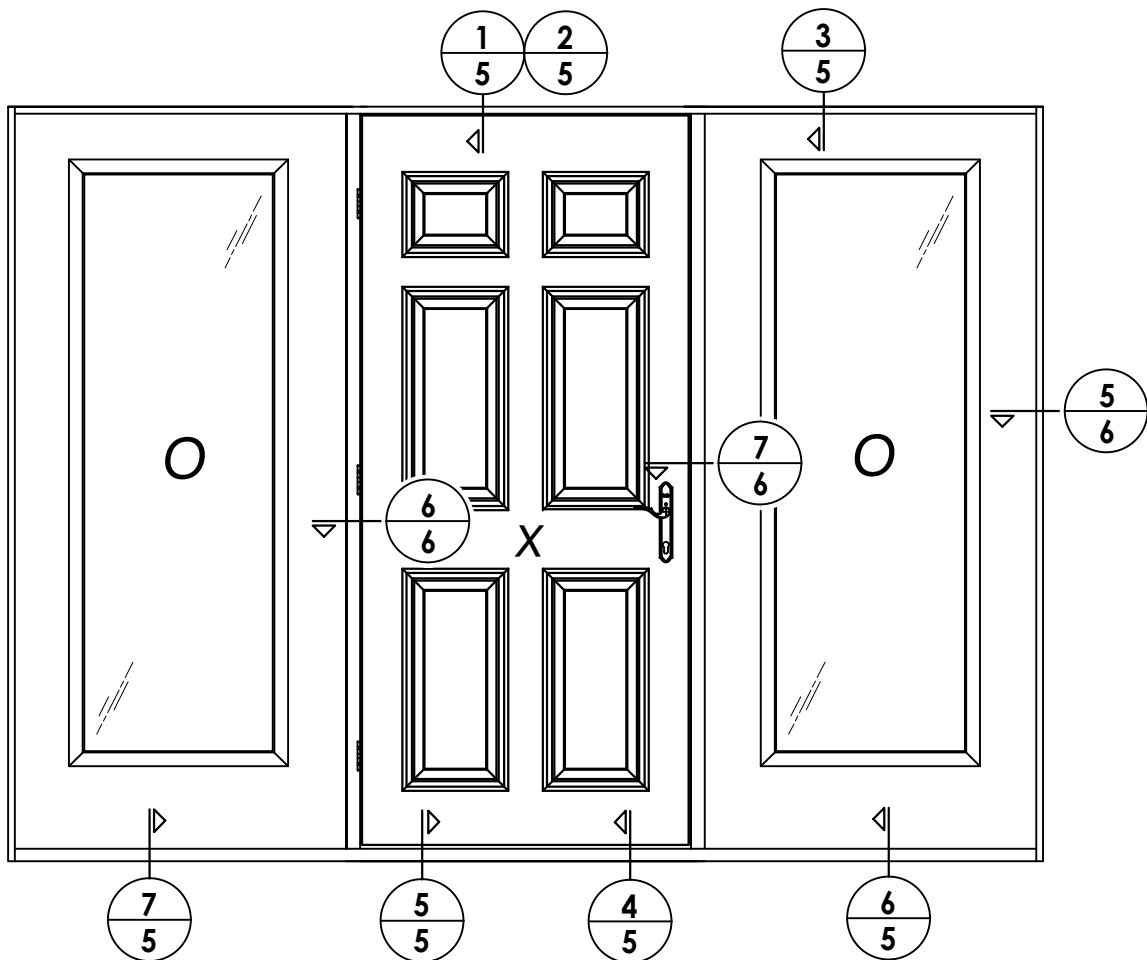
Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg



ELEVATION
X



ELEVATION
XO / OX



ELEVATION
OXO

NO.	DATE	REVISIONS			
		DATE	BY	REVISIONS	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	4/16/16	ADD ALUMINUM ARTICULATING SILL	RW		

DATE:	1/14/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-15384.13
SHEET	4 OF 10

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

NOTE:

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

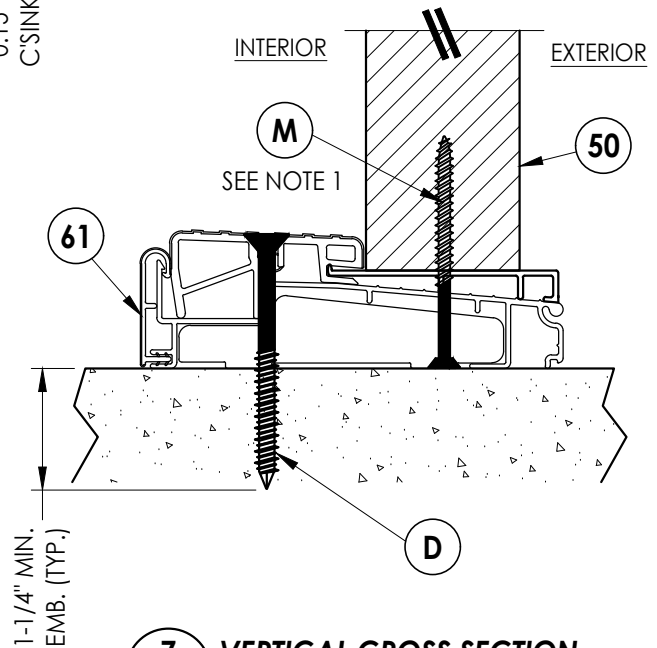


Diagram illustrating the cross-section of a window assembly, showing the interior and exterior views. The diagram includes callouts for various components:

- 5: Interior trim
- 19: Interior frame
- 22: Interior seal
- 23: Interior weatherstripping
- 24: Interior frame
- 25: Interior frame
- 40: Exterior frame
- D: Drainage channel

A dimension line indicates a minimum height of 1 1/4" MIN. (TYP.) for the drainage channel.

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

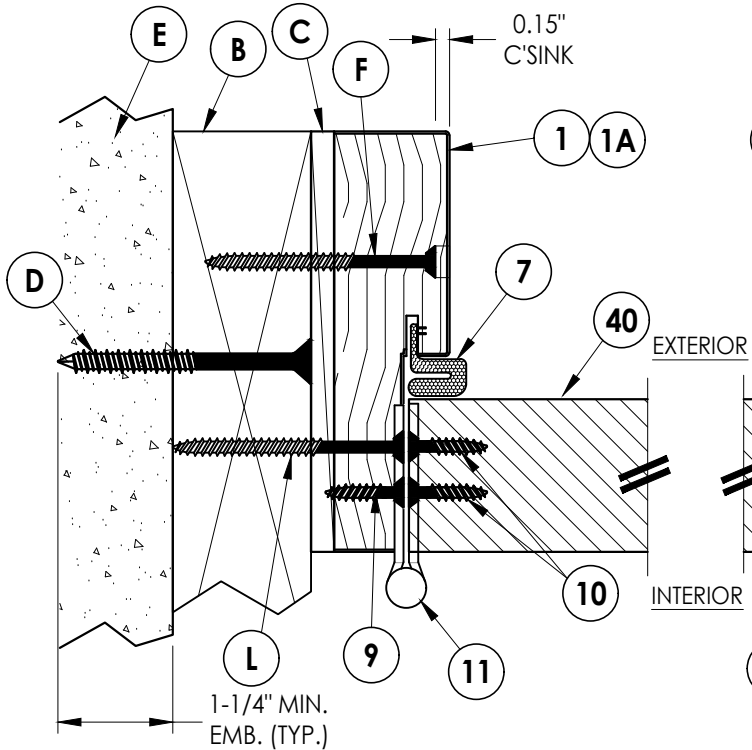
ASSEMBLY:
VERTICAL CROSS
SECTIONS

[illegible]

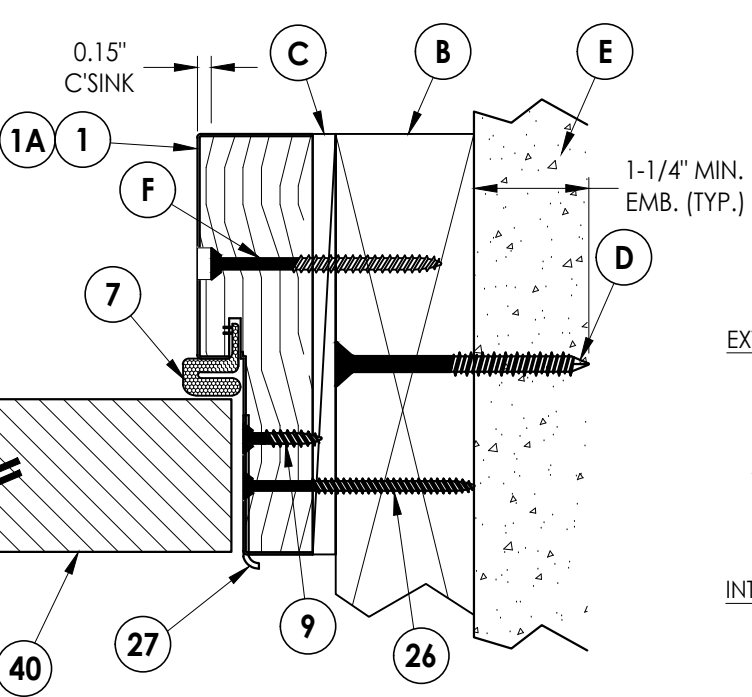
FL-15384.13

SHEET 5 OF 10

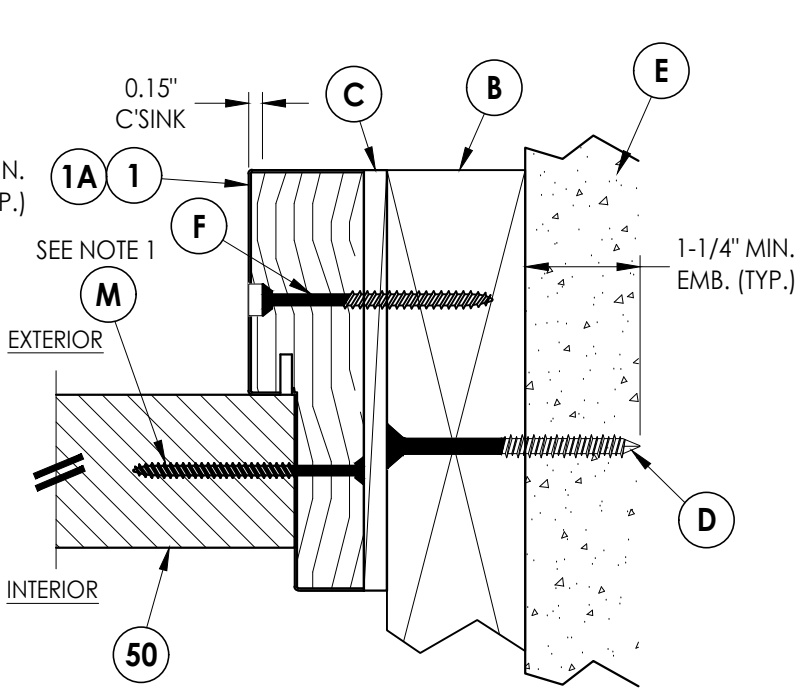
Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg



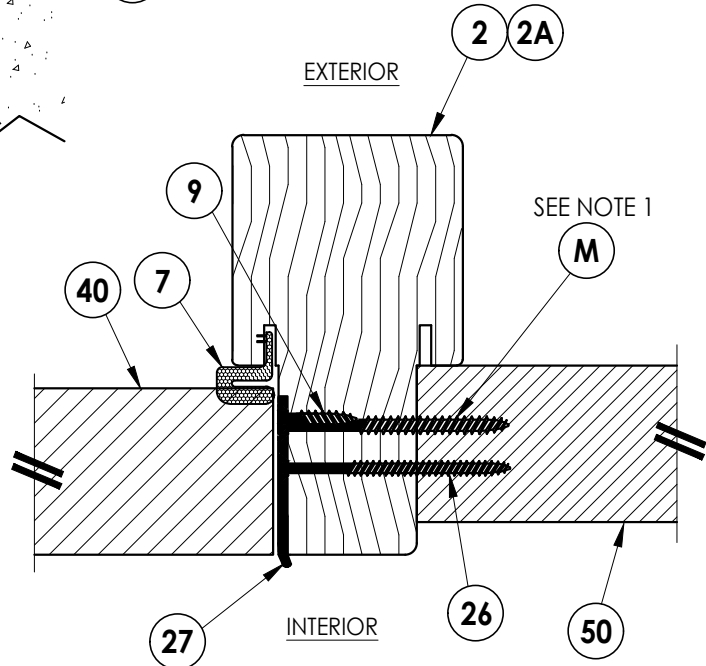
1 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)
2X Buck Construction



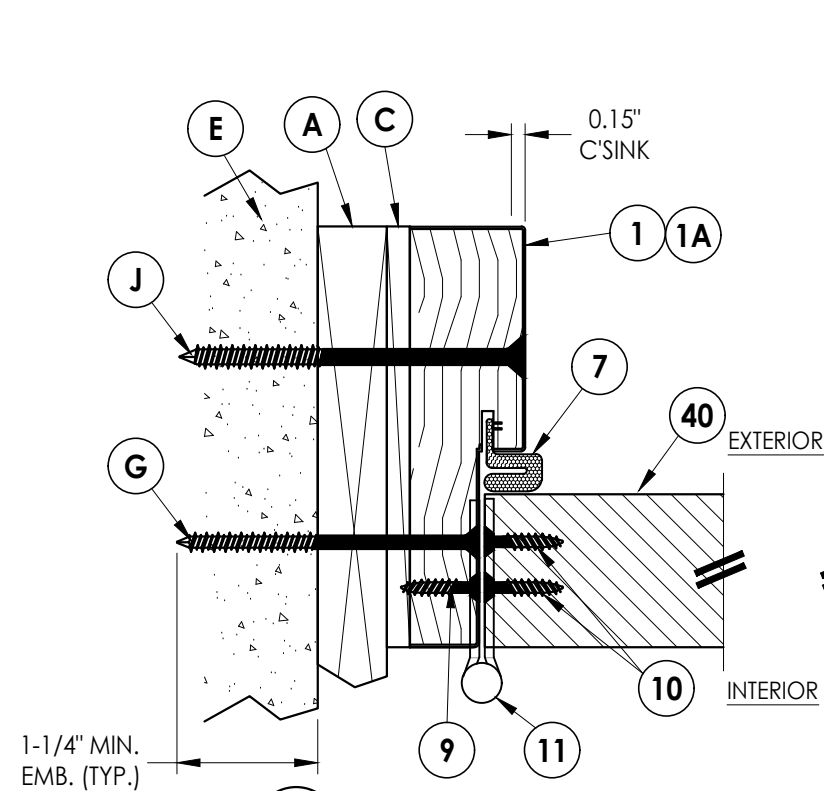
2 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)
2X Buck Construction



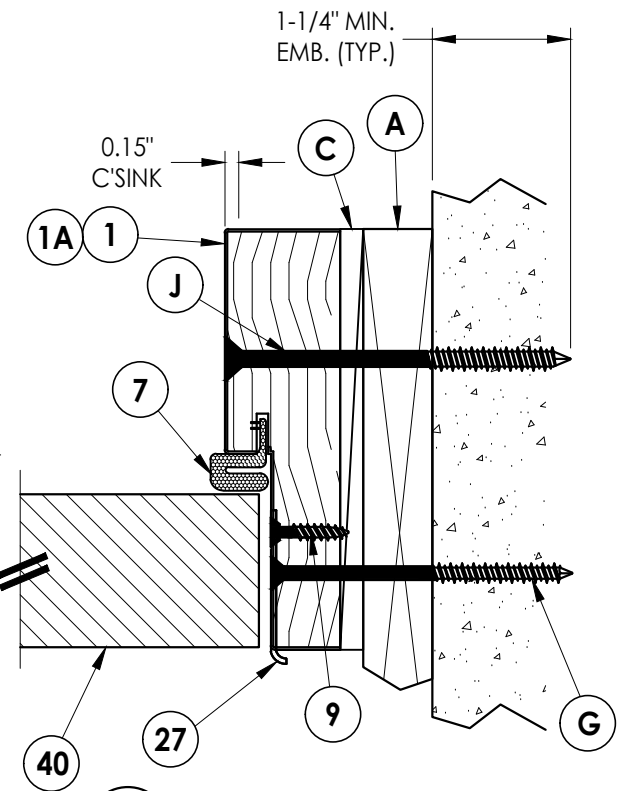
5 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)
2X Buck Construction



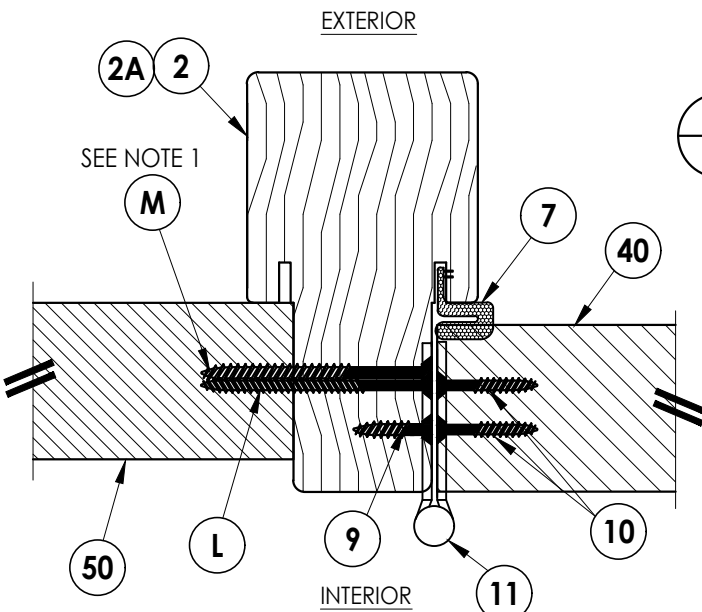
7 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)



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



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



6 **HORIZONTAL CROSS SECTION**
6 Inswing shown (Outswing similar)

NOTE:

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

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
5	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	8/03/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	9/26/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	4/16/16	ADD ALUMINUM ARTICULATING SILL RW
NO.	DATE	BY

DATE: 1/14/16

SCALE: N.T.S.

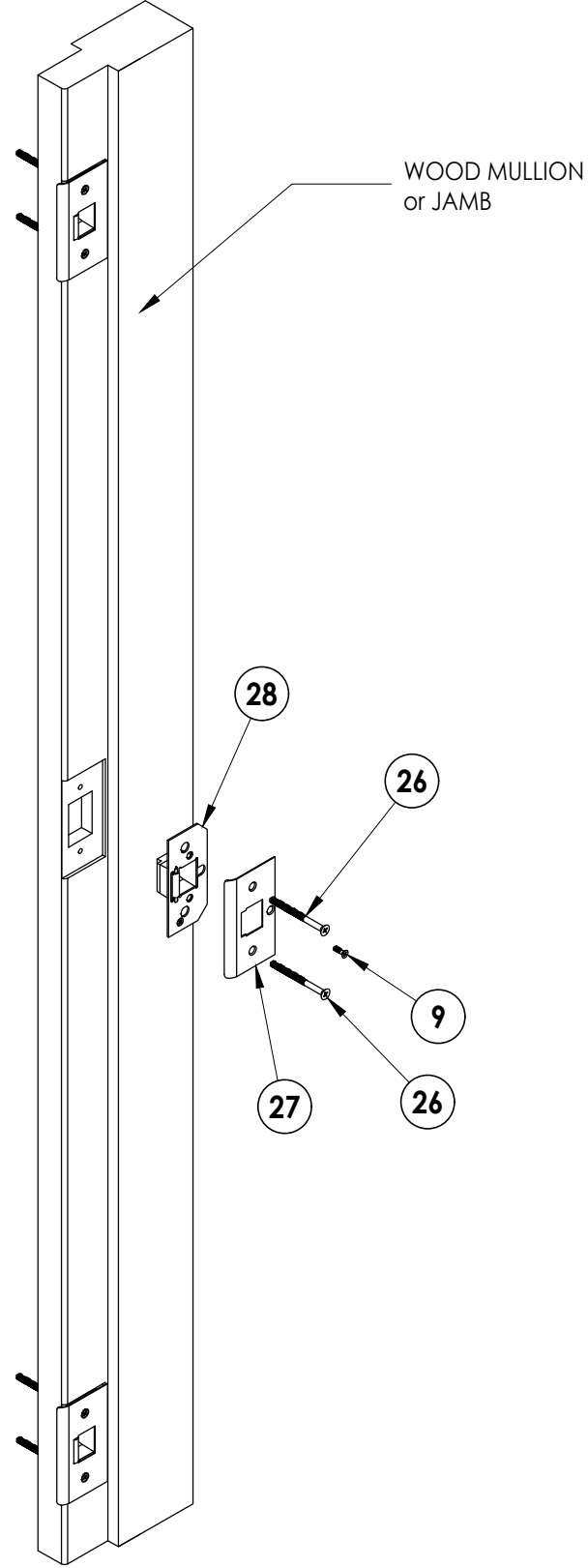
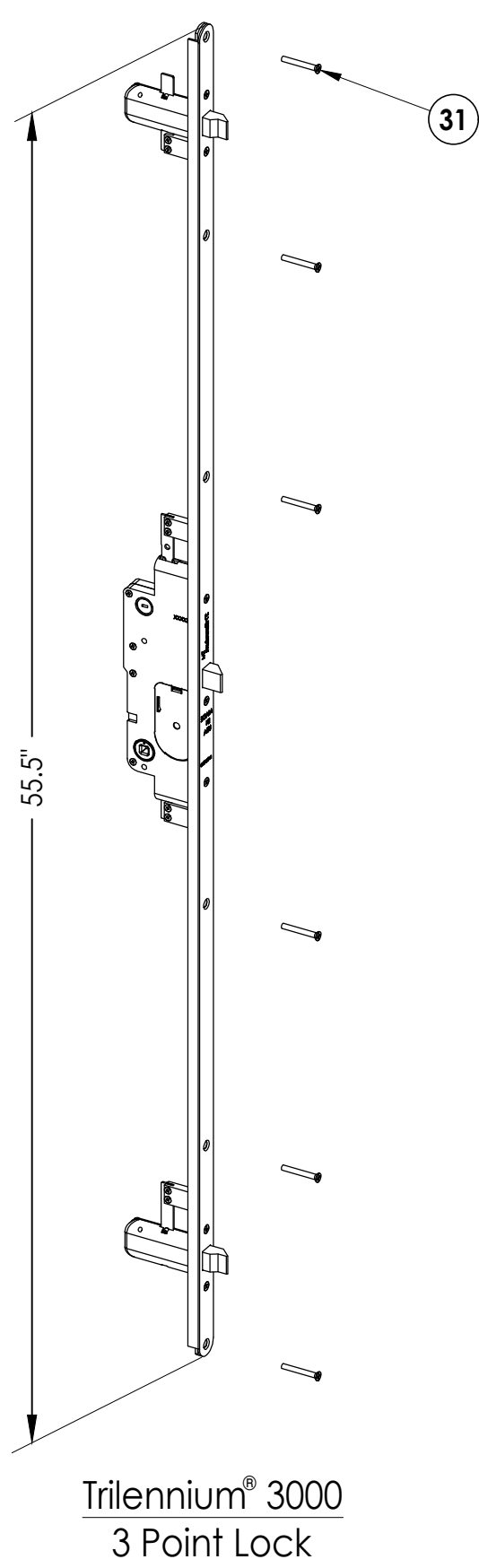
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15384.13

SHEET 6 OF 10



5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	8/03/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	4/16/16	ADD ALUMINUM ARTICULATING SILL		RW
NO.	DATE			
REVISIONS				

DATE: 1/14/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15384.13

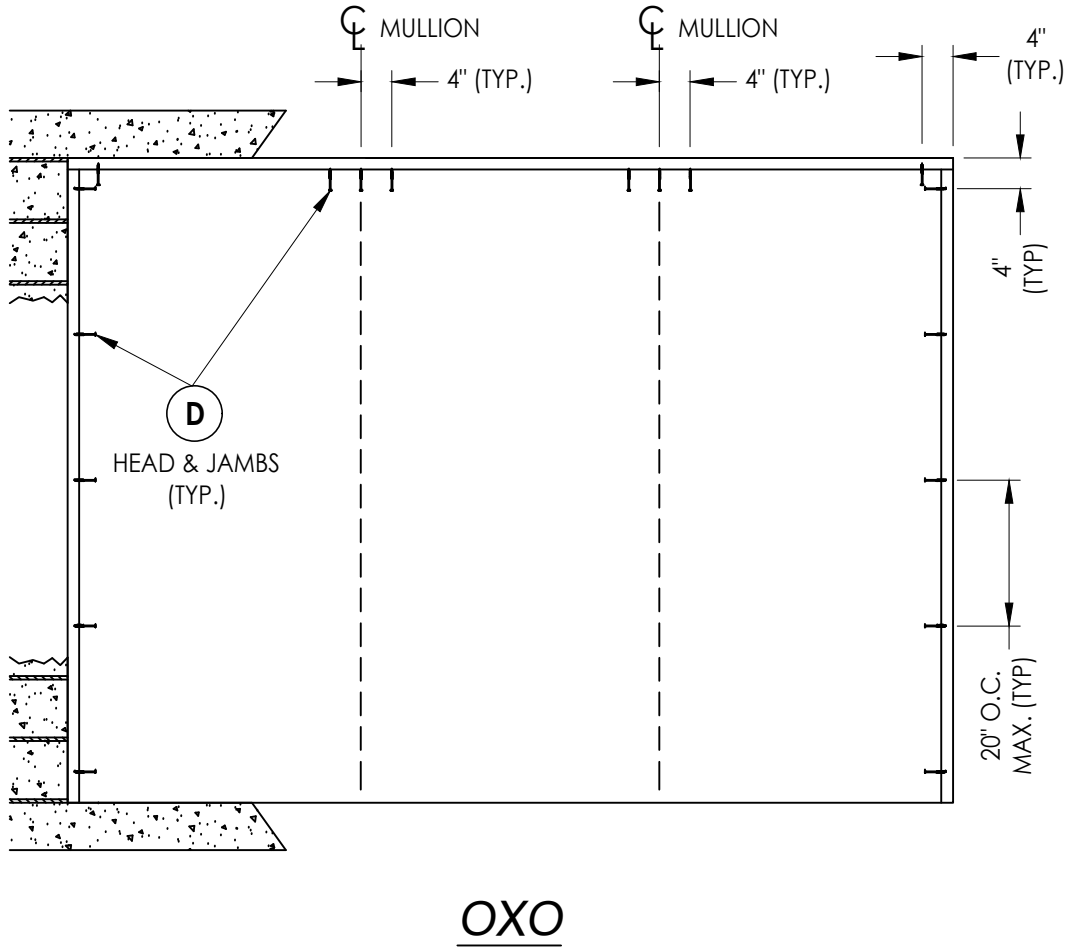
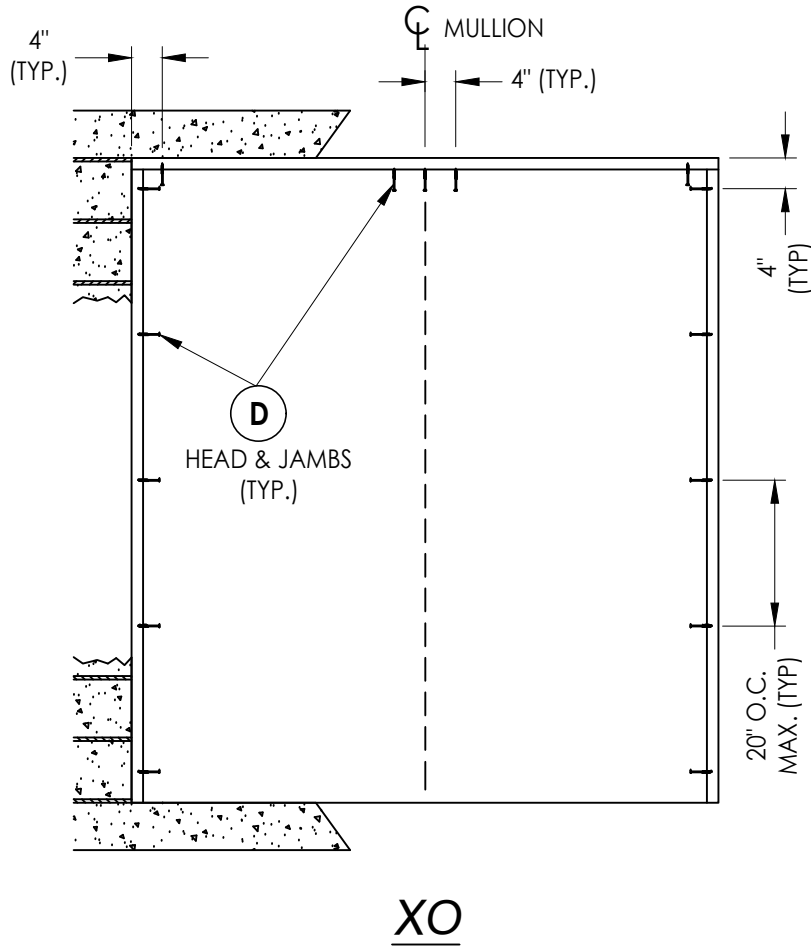
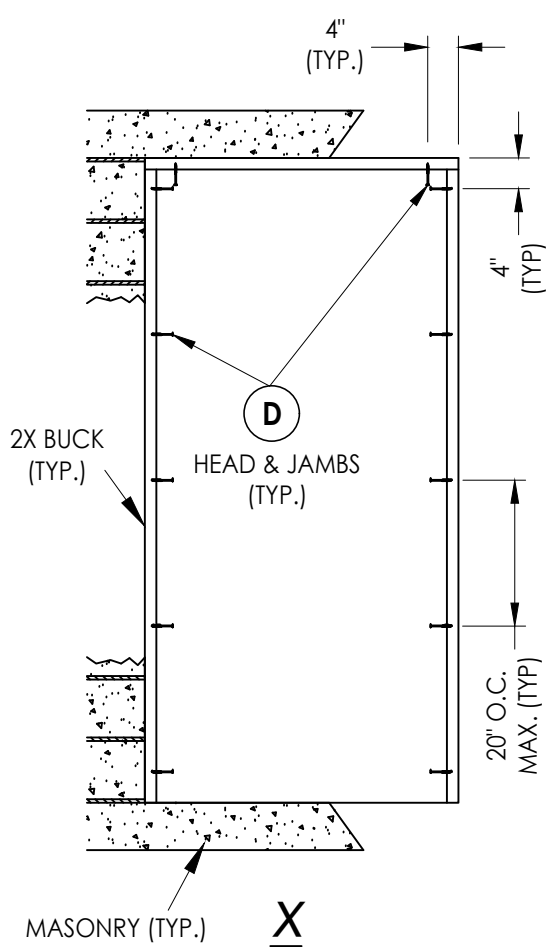
SHEET 7 OF 10

PRODUCT:	ENDURA
PART OR ASSEMBLY:	LOCK SET DETAILS

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

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

Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg



2X BUCK ANCHORING

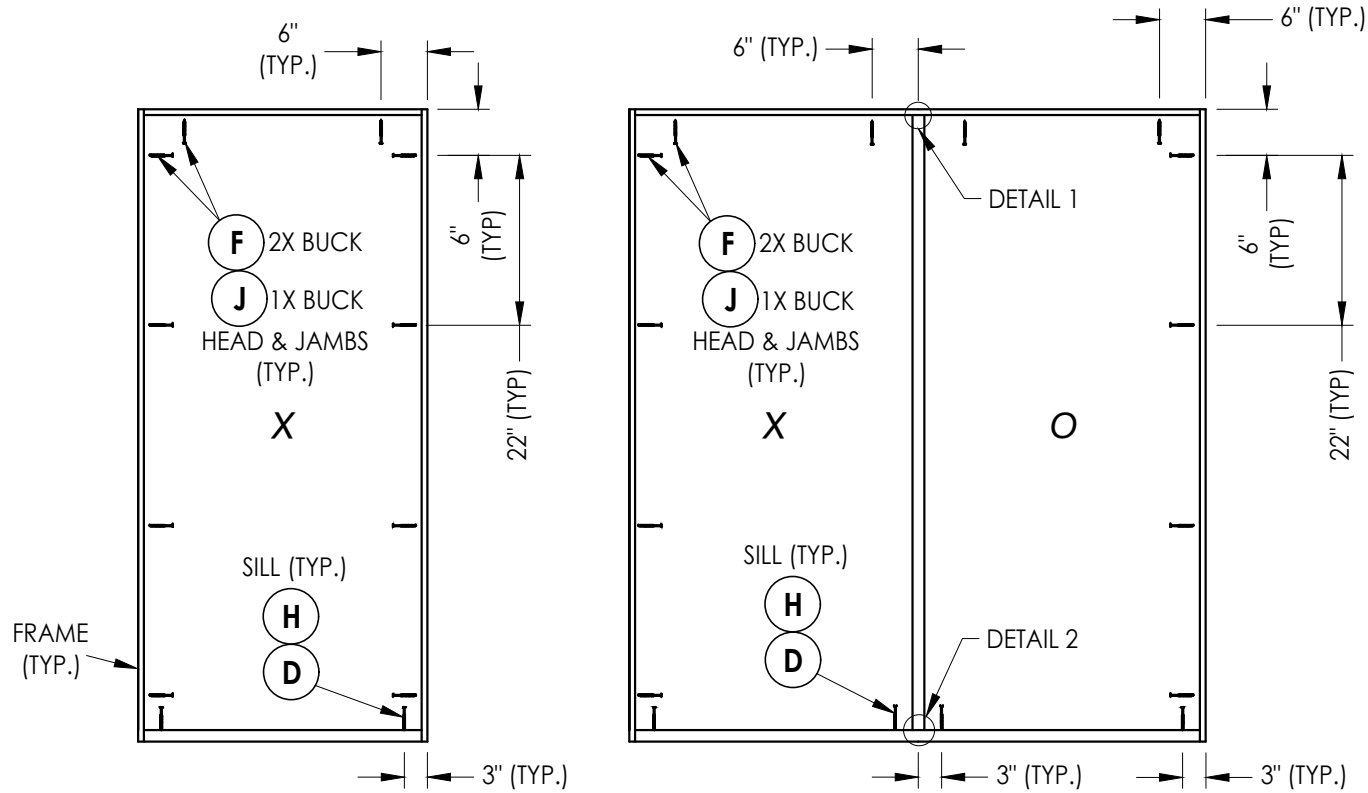
NO.	DATE	REVISIONS			
		NO.	DATE	BY	REVISIONS
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	9/26/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	4/16/16	ADD ALUMINUM ARTICULATING SILL	RW	BY	

DATE: 1/14/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15384.13
SHEET 8 OF 10

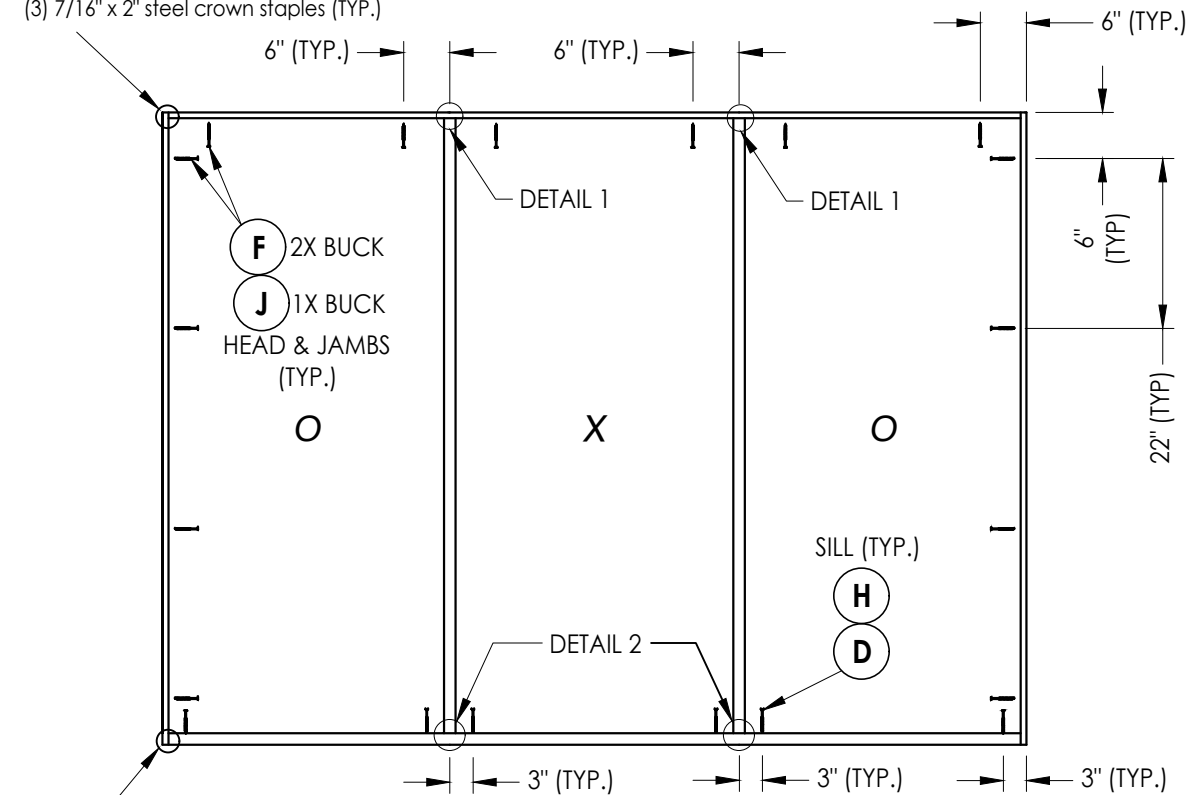
PRODUCT: ENDURA
PART OR ASSEMBLY: BUCK ANCHORING

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

Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg



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

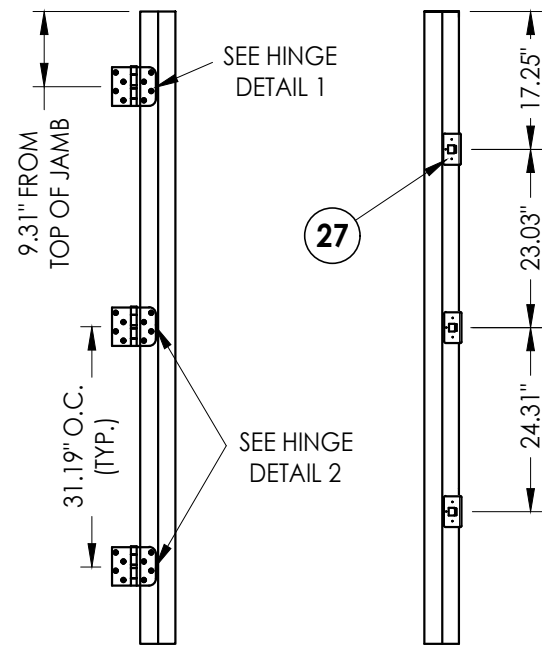


The threshold is attached to the jamb
w/ (3) 7/16" x 2" steel crown staples &
(1) #8 x 1-5/8" wood screw (TYP.)

FRAME ANCHORING

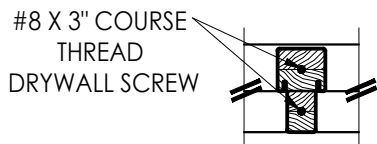
CORROSION RESISTANCE - SALTWATER ENVIRONMENT

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



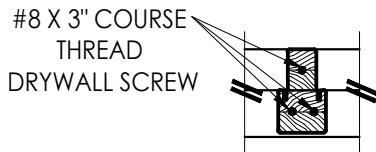
HINGE JAMB

STRIKE JAMB



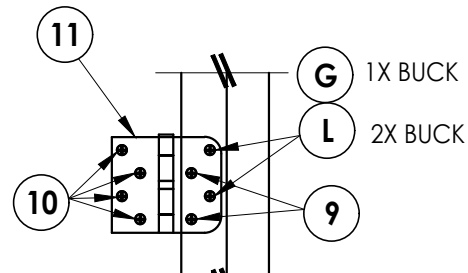
DETAIL 1

Integral mullion attachment

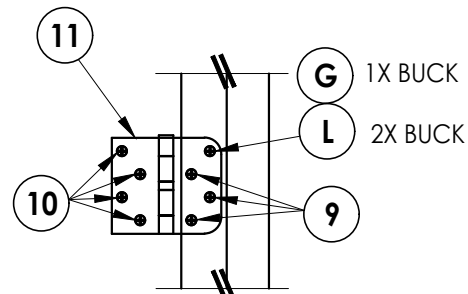


DETAIL 2

Integral mullion attachment



HINGE DETAIL 1



HINGE DETAIL 2

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"
DeWALT ULTRACON®	1/4"	1-1/4"	2"	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
5	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	9/26/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	4/16/16	ADD ALUMINUM ARTICULATING SILL RW

DATE: 1/14/16

SCALE: N.T.S.

DWG. BY: JK

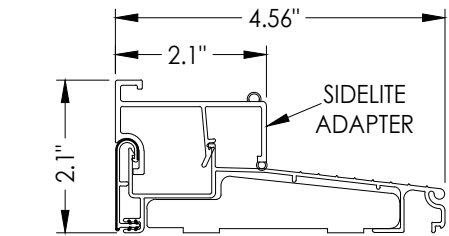
CHK. BY: LFS

DRAWING NO.: FL-15384.13

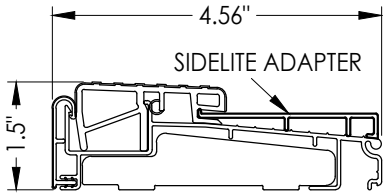
SHEET 9 OF 10

Z:\2023 FBC Drawings\Endura Products\FL-15384 R11\FL-15384.13.dwg

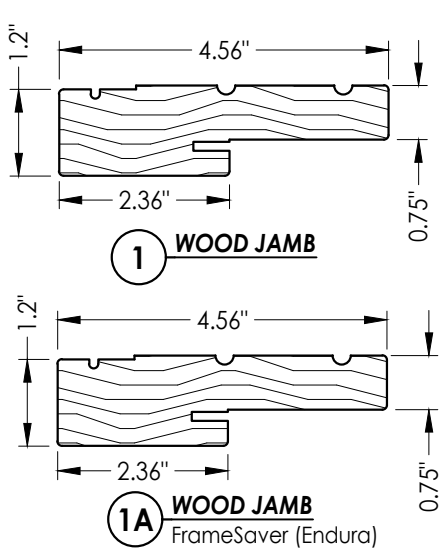
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.42)	WOOD
B	2X BUCK (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2-1/2" 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	#8 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
1	FINGER JOINT PINE JAMB (G >= 0.42)	WOOD
1A	FINGER JOINED PINE JAMB (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
13	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
14	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
15	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
16	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
17	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
18	INSWING ARTICULATING THRESHOLD	ALUM/COMP
19	INSWING ARTICULATING THRESHOLD	ALUM/COMP
20	INSWING ARTICULATING THRESHOLD	ALUM/COMP
21	INSWING ARTICULATING THRESHOLD	ALUM/COMP
22	INSWING ARTICULATING THRESHOLD	ALUM/COMP
23	OUTSWING THRESHOLD	ALUM/COMP
24	OUTSWING THRESHOLD	ALUM/COMP
25	OUTSWING THRESHOLD	ALUM/COMP
26	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	BACKING PLATE	STEEL
31	#10 x 1-1/2" PFH WOOD SCREW	STEEL
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
60	INSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP
61	OUTSWING THRESHOLD w/ SIDELITE ADAPTER	ALUM/COMP



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



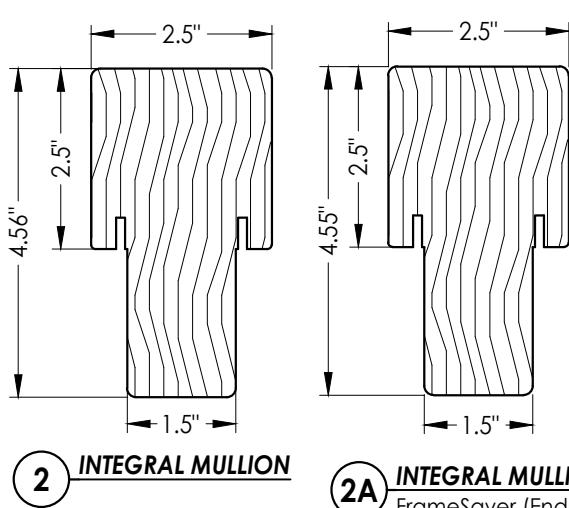
61 OUTSWING THRESHOLD w/ SIDELITE ADAPTER
Endura (Z-Series)



1 WOOD JAMB

1A WOOD JAMB

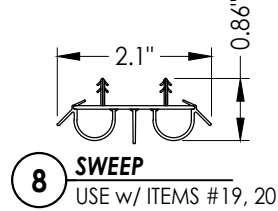
FrameSaver (Endura)



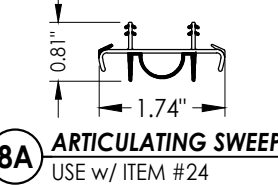
2 INTEGRAL MULLION

2A INTEGRAL MULLION

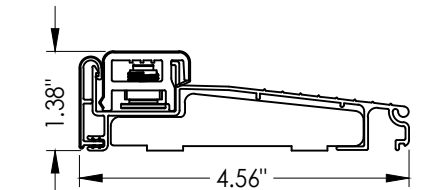
FrameSaver (Endura)



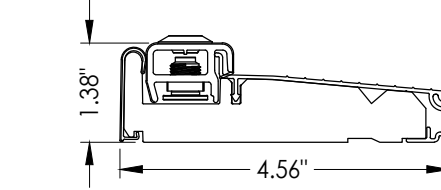
8 SWEEP
USE w/ ITEMS #19, 20



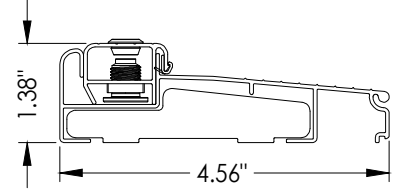
8A ARTICULATING SWEEP
USE w/ ITEM #24



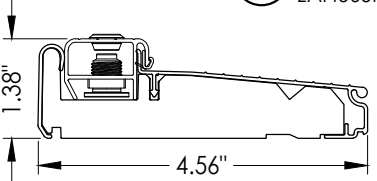
13 INSWING ADJUSTABLE THRESHOLD
ZAIL4565



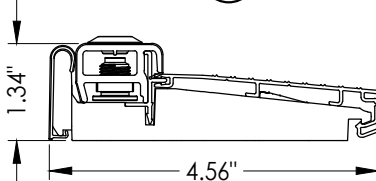
14 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



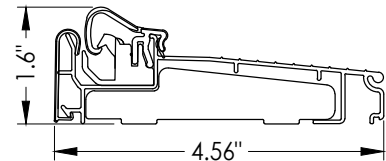
15 INSWING ADJUSTABLE THRESHOLD
ZAILAA4565



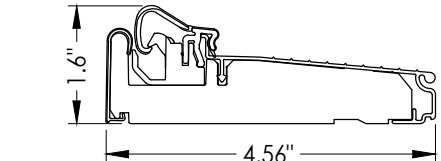
16 INSWING ADJUSTABLE THRESHOLD
ZAI4565FN



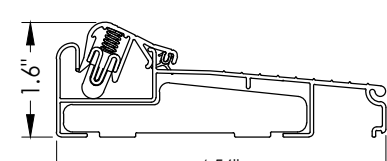
17 INSWING ADJUSTABLE THRESHOLD
ZAI4565RDS



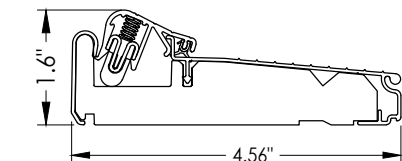
18 INSWING ARTICULATING THRESHOLD
ZACL4565



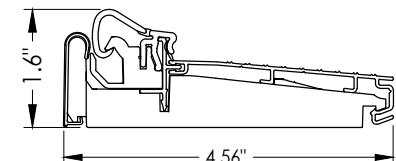
19 INSWING ARTICULATING THRESHOLD
ZAC4565FN



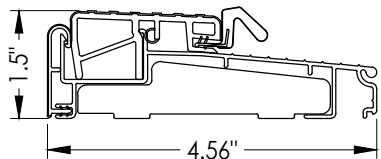
20 INSWING ARTICULATING THRESHOLD
ZACLAA4565



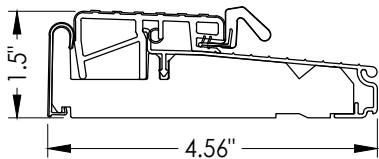
21 INSWING ARTICULATING THRESHOLD
ZACAA4565FN



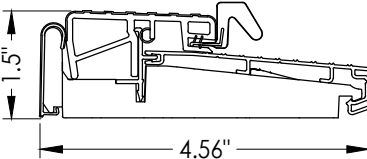
22 INSWING ARTICULATING THRESHOLD
ZAC4565RDS



23 OUTSWING THRESHOLD
ZOBL4565



24 OUTSWING THRESHOLD
ZOB4565FN



25 OUTSWING THRESHOLD
ZOB4565RDS

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:
BILL OF MATERIALS
& COMPONENTS

		LFS	FBC	FBC	FBC	FBC	RW	BY
5	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC				
4	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC				
3	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC				
2	9/26/17	UPDATE TO 6TH ED.	(2017)	FBC				
1	4/16/16	ADD ALUMINUM ARTICULATING SILL						
NO.	DATE	REVISIONS						

DATE: 1/14/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15384.13

SHEET 10 OF 10