



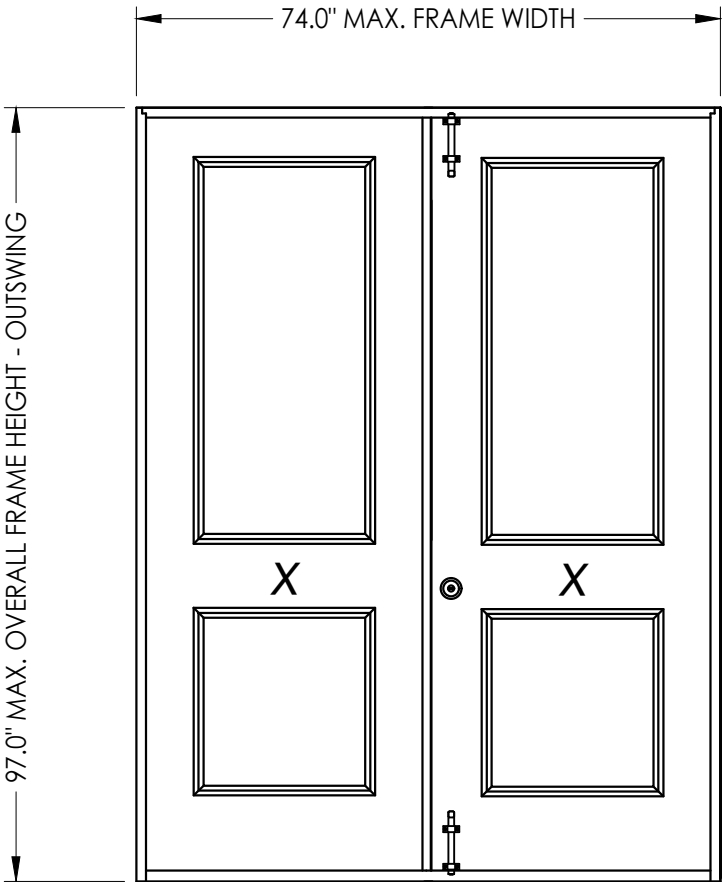
5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

Smooth / Wood Grain / White Wood Grain
Rustic / Mahogany
Series O Fiberglass Door
OUTSWING
"IMPACT"

GENERAL NOTES

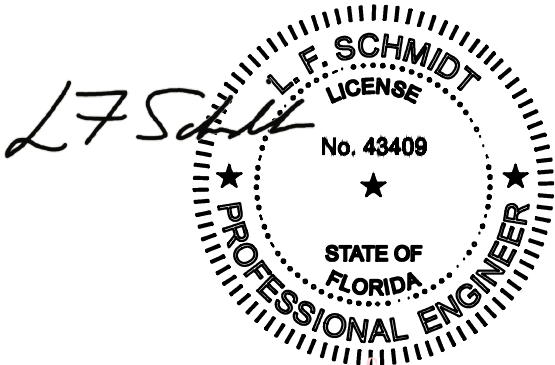
- 1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
- 2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 3. When used in the "HVHZ" this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
- 4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996.
- 5. For 2x stud construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- 7. Outswing configurations meet water infiltration requirements for "HVHZ".

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Horizontal & Vertical Cross Sections (2X Buck)
4	Horizontal & Vertical Cross Sections (1X Buck)
5	Horizontal & Vertical Cross Sections (Direct to Masonry)
6	Buck and frame anchoring
7	Astragal details (DLP)
8	Astragal details (Endura)
9	Bill of materials and components



MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) w/ SURFACE BOLTS	
	POSITIVE	NEGATIVE
74.0" x 97.0"	+90.0	-90.0

See Sheet 8 for astragal design pressure limitations.



Digitally signed by Lyndon F Schmidt
Date: 2026.07.28 13:52:27 -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

PLASTPRO INC.
FIBERGLASS DOOR

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
4	8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	7/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	7/24/17	& REVISE ENDURA ULT. ASTRAGAL		JK
1	3/9/15	UPDATE TO 6TH ED. (2017)	FBC	JK
		UPDATE TO 5TH ED. (2014)	FBC	JK
	NO. DATE			BY

REVISIONS

DATE: 2/19/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15210.14

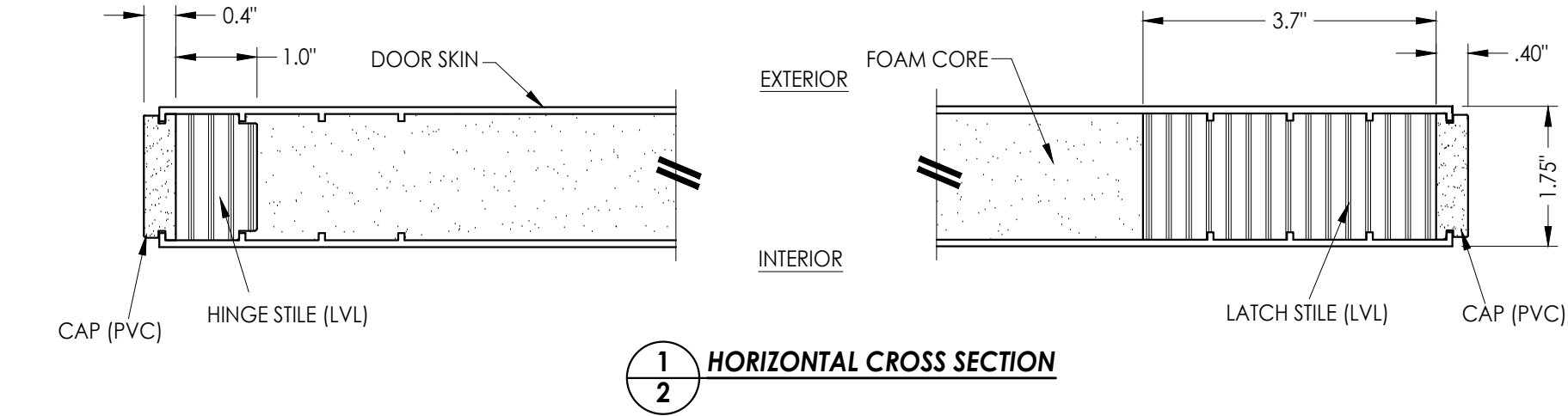
SHEET 1 OF 9

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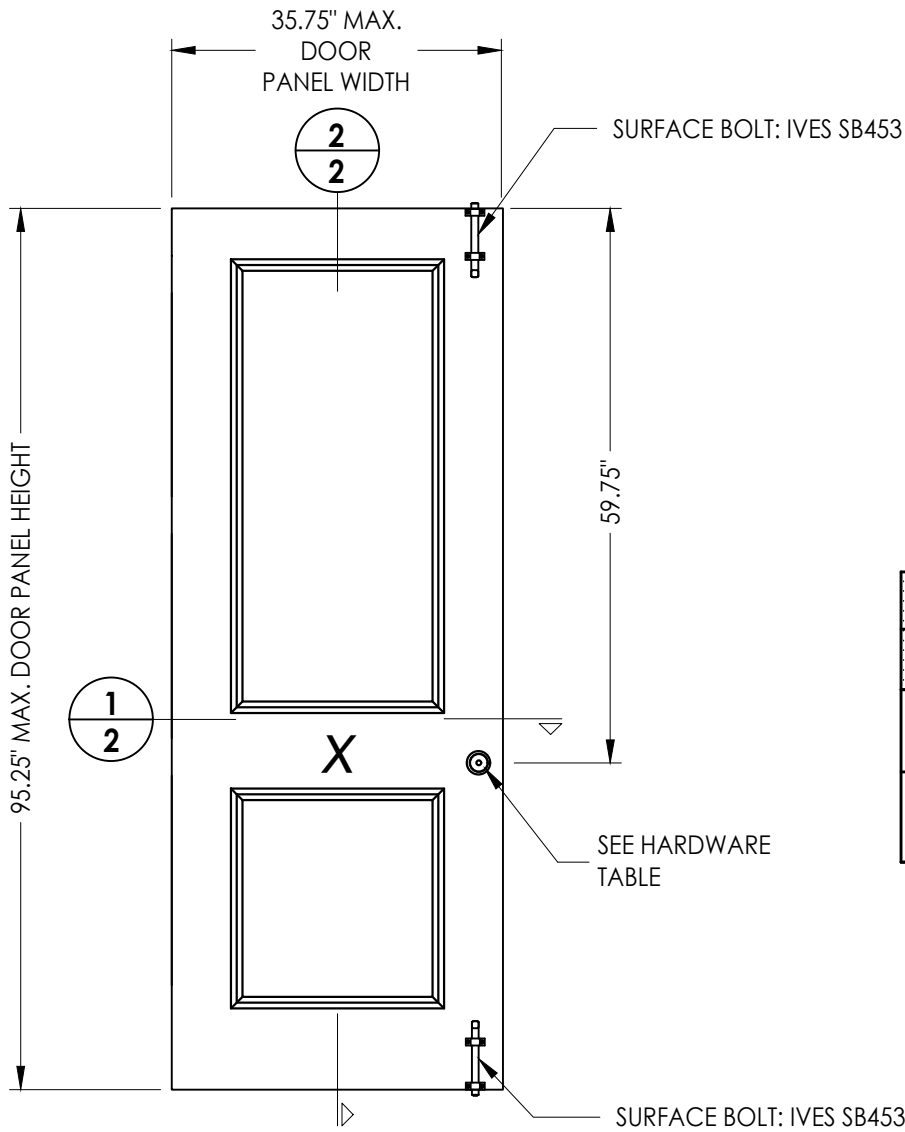
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

RW

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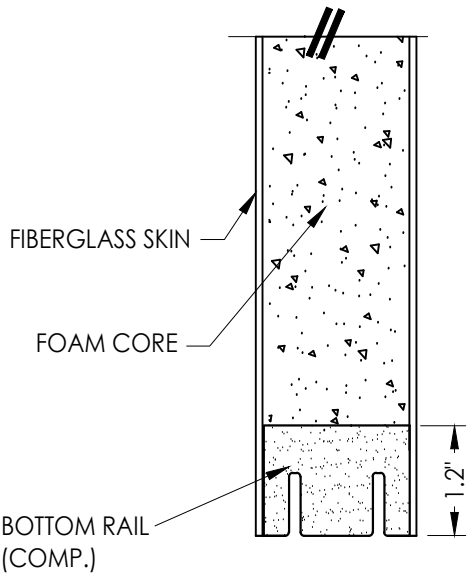
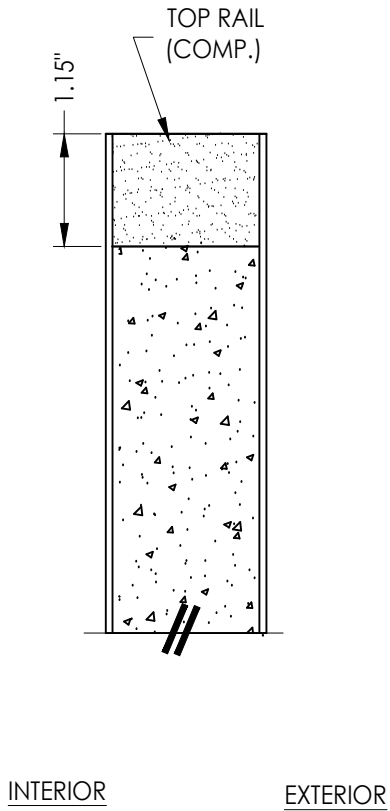
1
2 **HORIZONTAL CROSS SECTION**



40 **DOOR PANEL**

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	Knob:	SIGNATURE SERIES
SCHLAGE	Knob:	"F" SERIES (F51)

Note: Optional deadbolt may be utilized at 5-1/2" or 12" on center above knob.

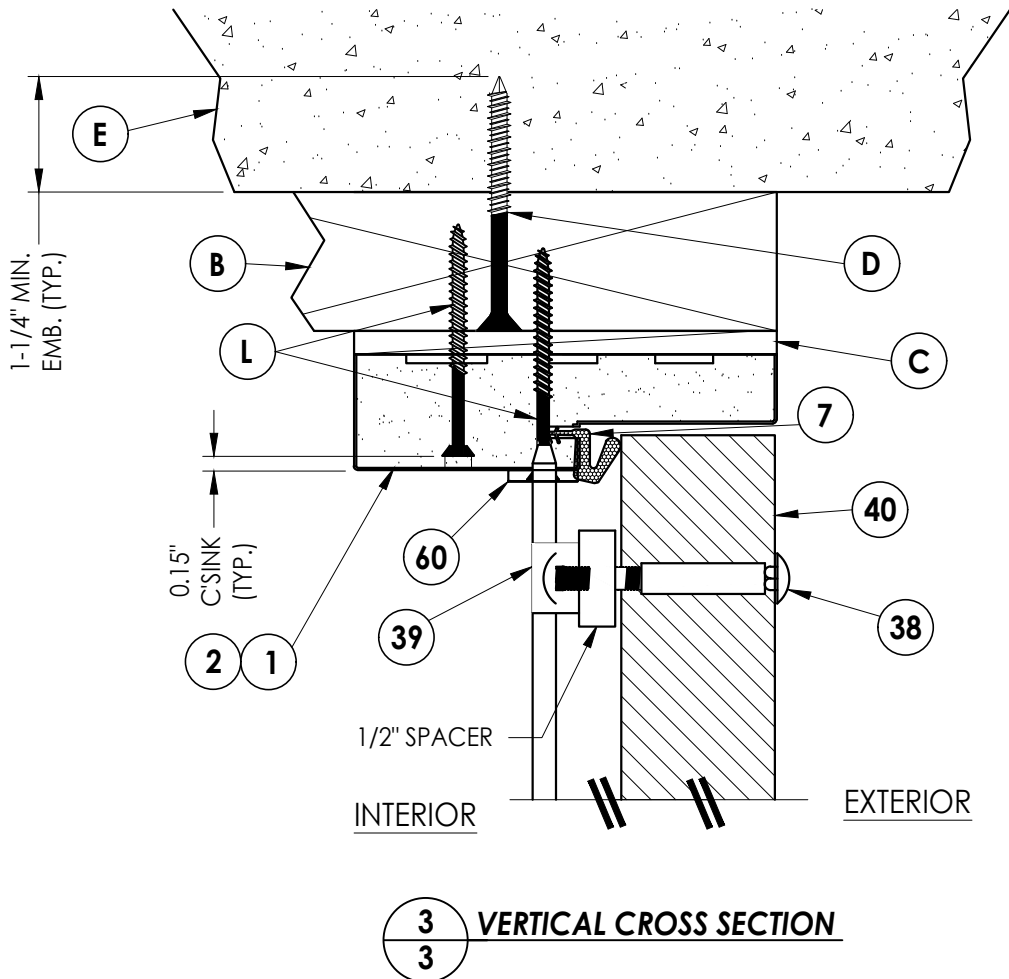
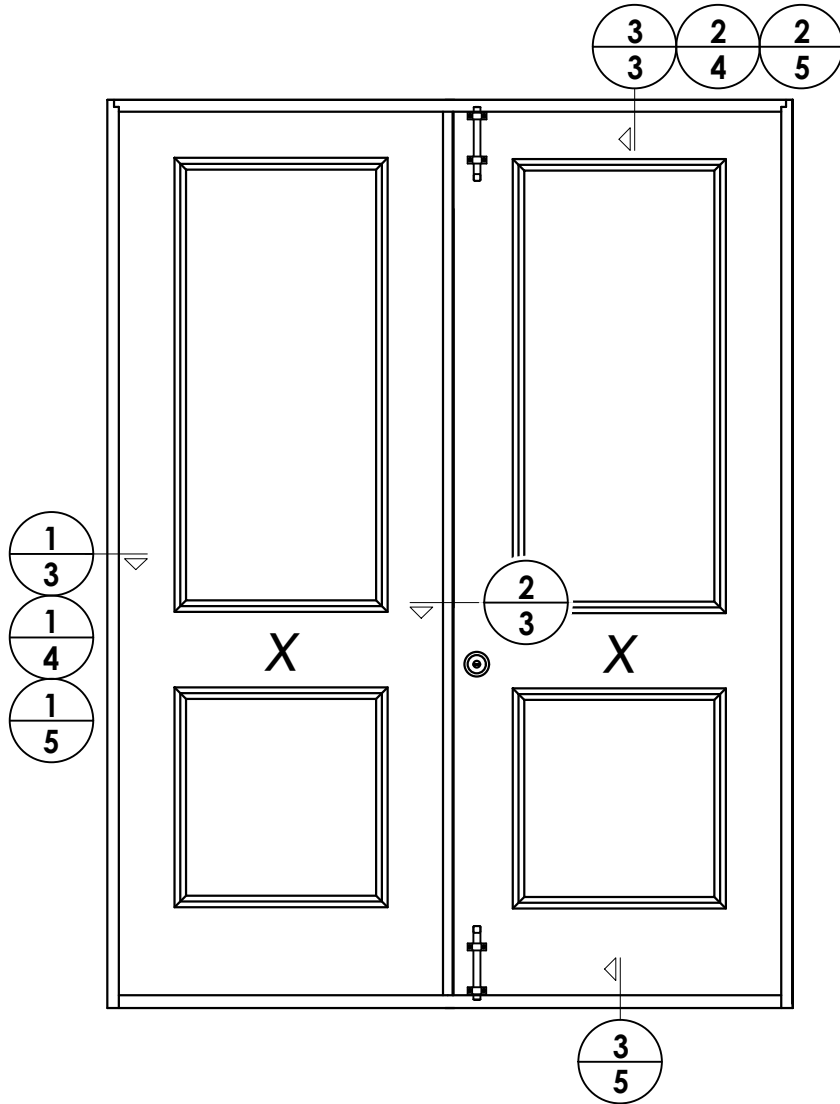
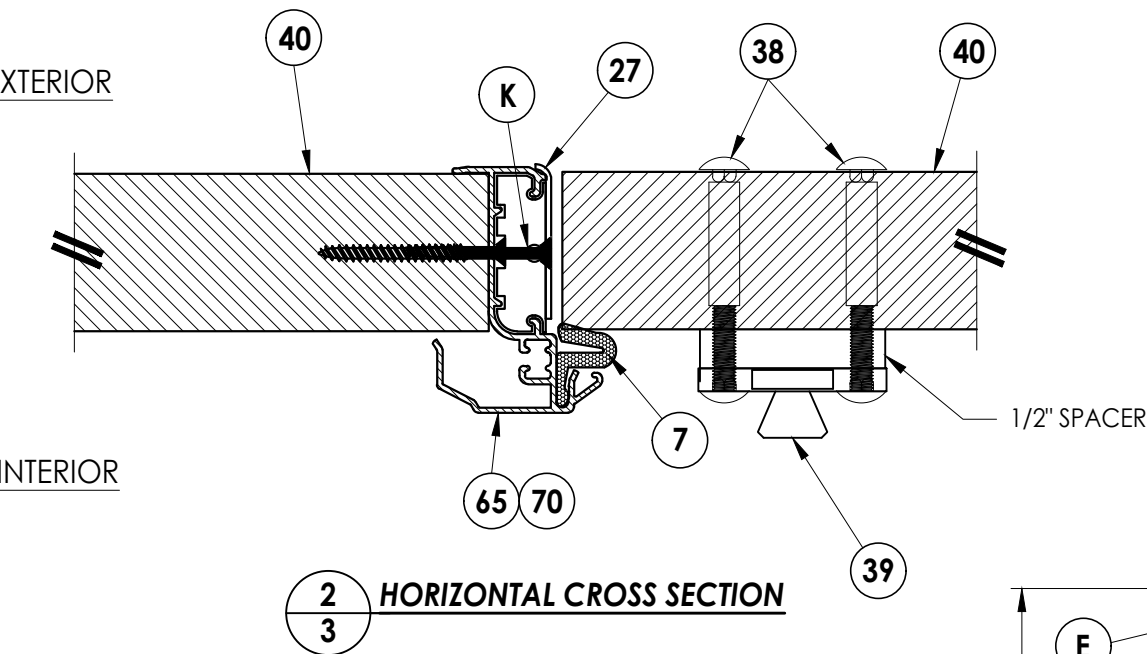
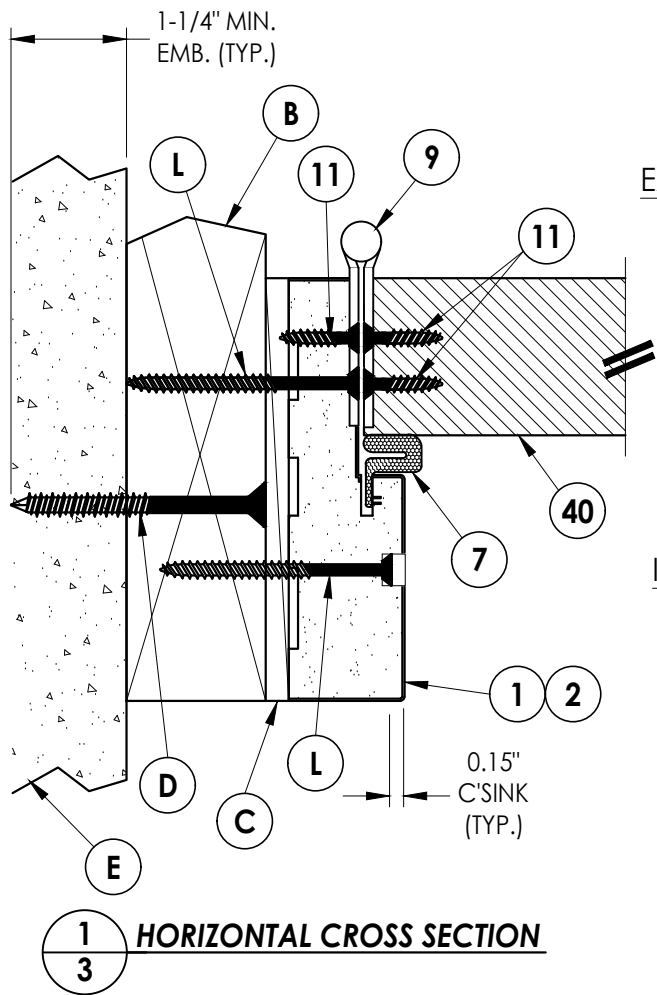


2
2 **VERTICAL CROSS SECTION**

FIBERGLASS DOOR SKIN: MIN. 0.130" THK.
CORE MATERIAL: POLYURETHANE FOAM (1.9 PCF MIN.)

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: PLASTPRO INC. FIBERGLASS DOOR					PART OR ASSEMBLY: DOOR PANEL DETAILS				
5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	REVISIONS	NO.	DATE		BY
4	8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS					
3	7/29/20	UPDATE TO 7TH ED. (2020)	FBC	LFS					
		& REVISE ENDURA ULT. ASTRAGAL							
2	7/24/17	UPDATE TO 6TH ED. (2017)	FBC	JK					
1	3/9/15	UPDATE TO 5TH ED. (2014)	FBC	JK					
DATE: 2/19/13									
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-15210.14									
SHEET 2 OF 9									

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Documents Prepared By:
Lyndon F. Schmidt
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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:
PLASTPRO INC.
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
5	7/02/26	UPDATE TO 9TH ED. (2026) FBC
4	8/17/23	UPDATE TO 8TH ED. (2023) FBC
3	7/29/20	UPDATE TO 7TH ED. (2020) FBC
2	7/24/17	UPDATE TO 6TH ED. (2017) FBC
1	3/9/15	UPDATE TO 5TH ED. (2014) FBC
NO.	DATE	BY

DATE: 2/19/13

SCALE: N.T.S.

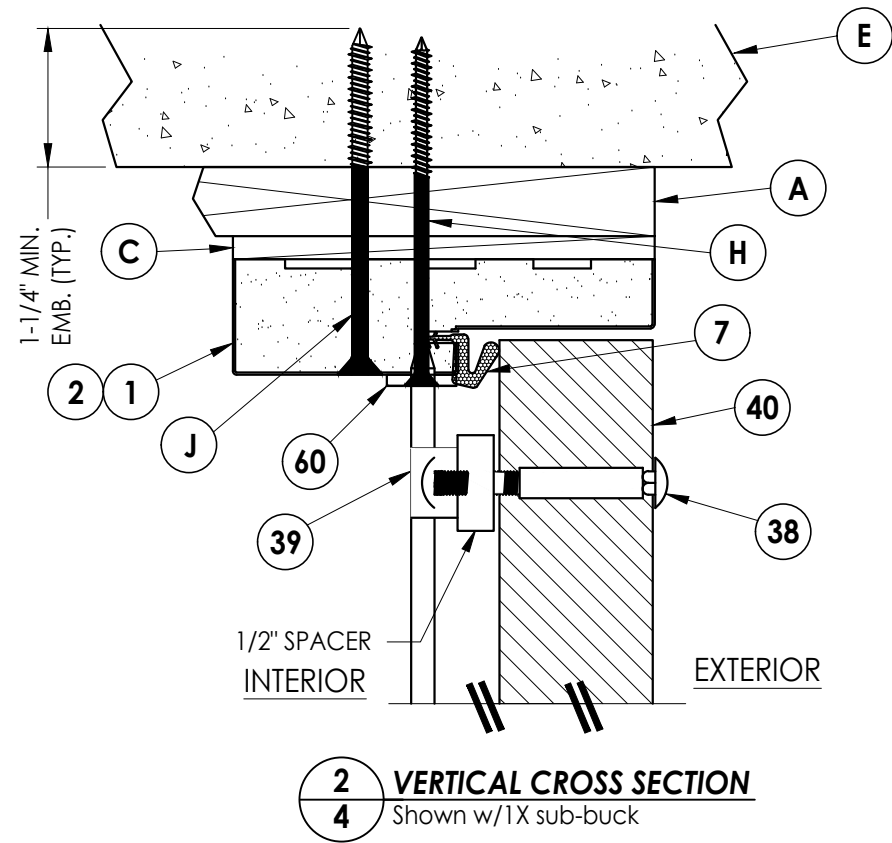
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CHK. BY: LFS

DRAWING NO.:

FL-15210.14

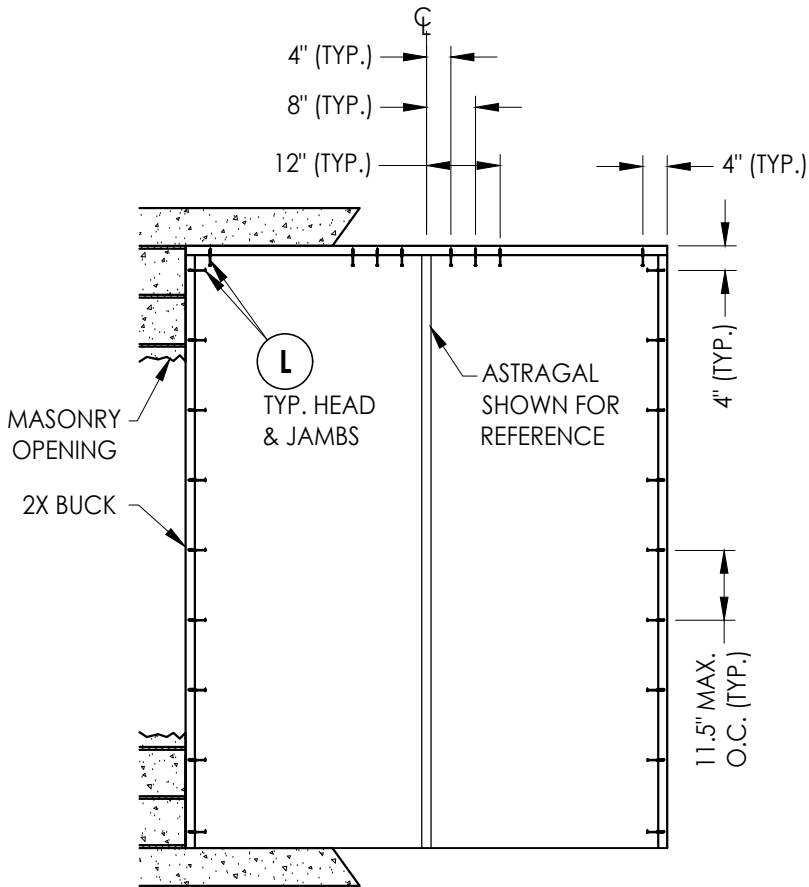
SHEET 3 OF 9



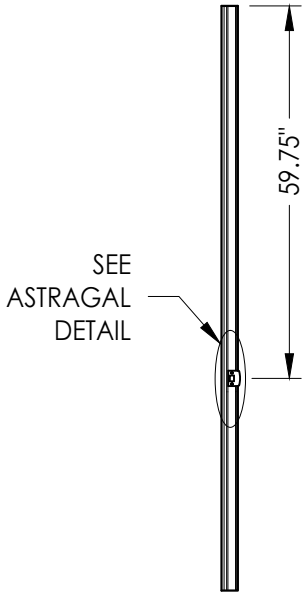
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SCALE: N.T.S.		4		8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
DWG. BY: JK		3		7/29/20	UPDATE TO 7TH ED (2020)	FBC	LFS
CHK. BY: LFS					& REVISE ENDURA ULT. ASTRAGAL		
DRAWING NO.: FL-15210.14		2		7/24/17	UPDATE TO 6TH ED. (2017)	FBC	JK
SHEET 4 OF 9		1		3/9/15	UPDATE TO 5TH ED. (2014)	FBC	JK
		NO.		DATE			
				REVISIONS			BY

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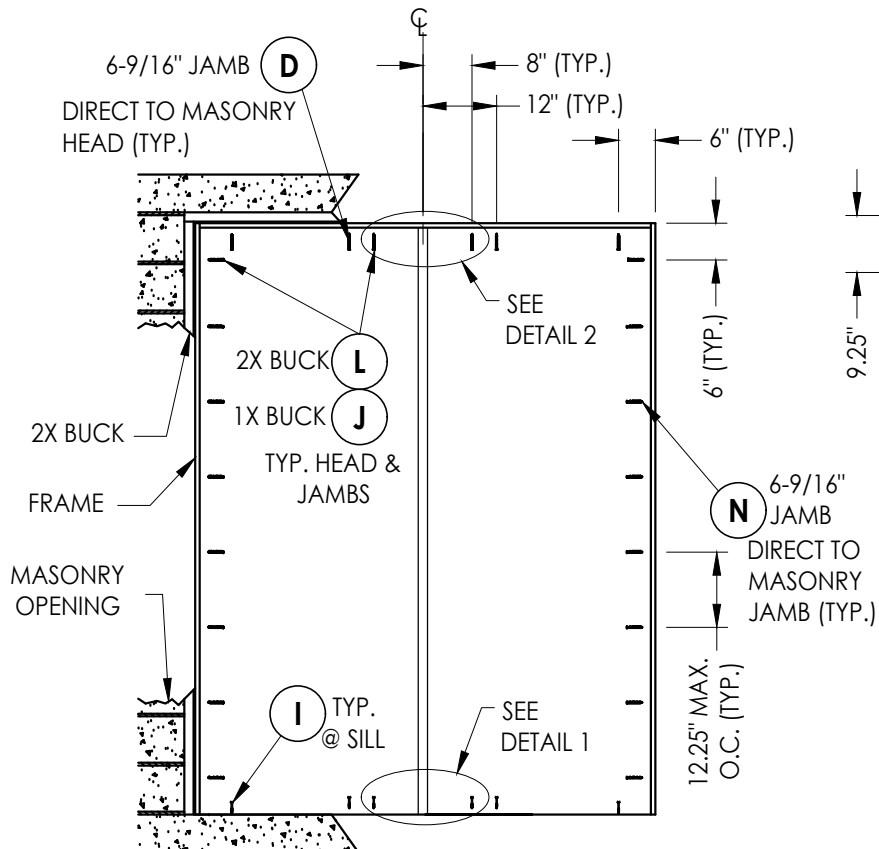
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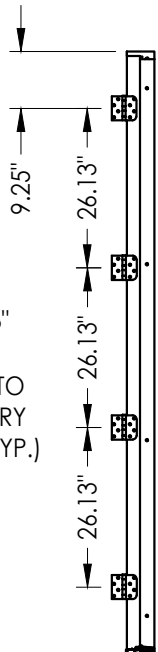
BUCK ANCHORING
XX



ASTRAGAL STRIKE



FRAME ANCHORING
XX



HINGE JAMB

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.

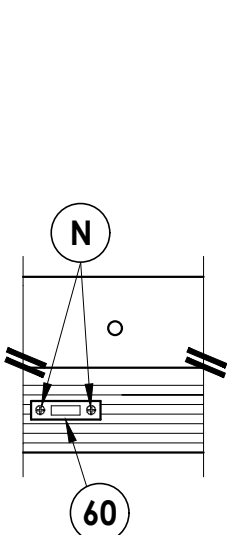
CONCRETE ANCHOR NOTES:

- 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:

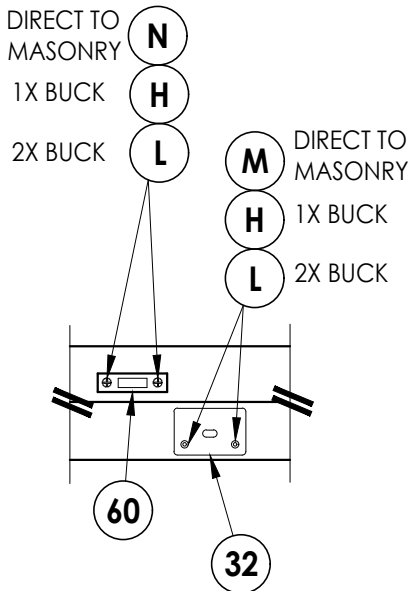
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

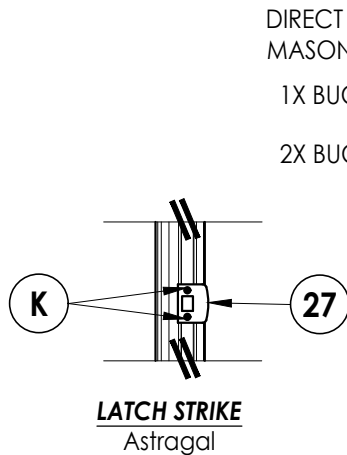
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



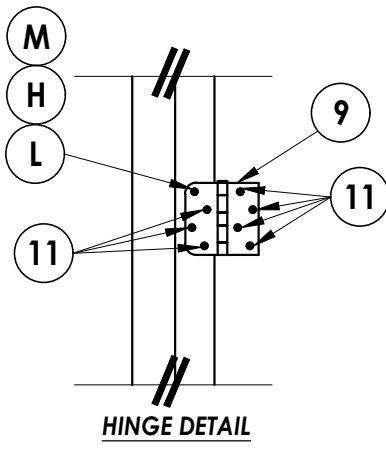
DETAIL 1



DETAIL 2



LATCH STRIKE
Astragal



HINGE DETAIL

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

PRODUCT:
PLASTPRO INC.
FIBERGLASS DOOR

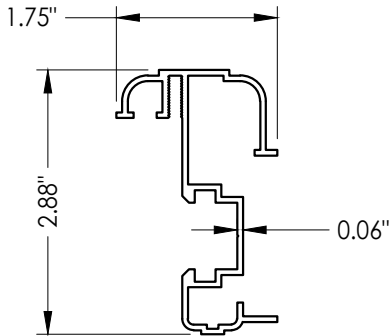
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING

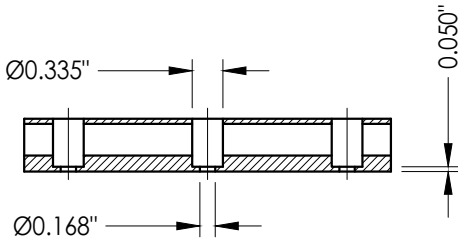
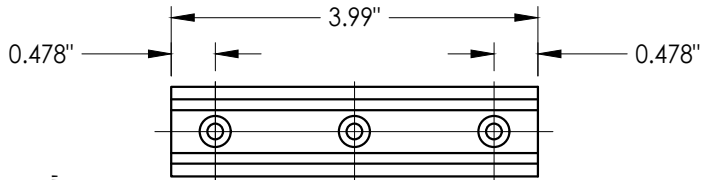
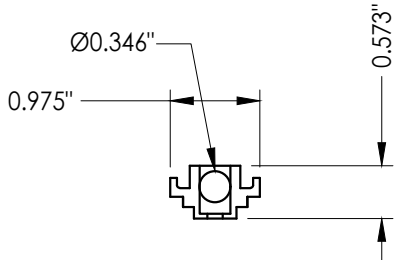
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4	8/17/23	UPDATE TO 8TH ED. (2023) FBC
3	7/29/20	UPDATE TO 7TH ED. (2020) FBC
2	7/24/17	& REVISE ENDURA ULT. ASTRAGAL
1	3/9/15	UPDATE TO 6TH ED. (2017) FBC
1	3/9/15	UPDATE TO 5TH ED. (2014) FBC
NO.	DATE	BY

DATE: 2/19/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-15210.14
SHEET 6 OF 9

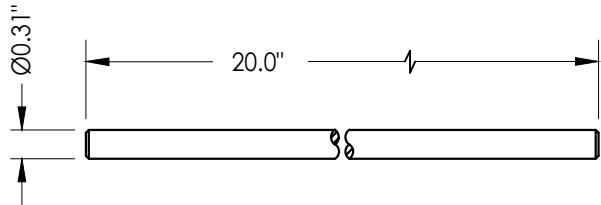
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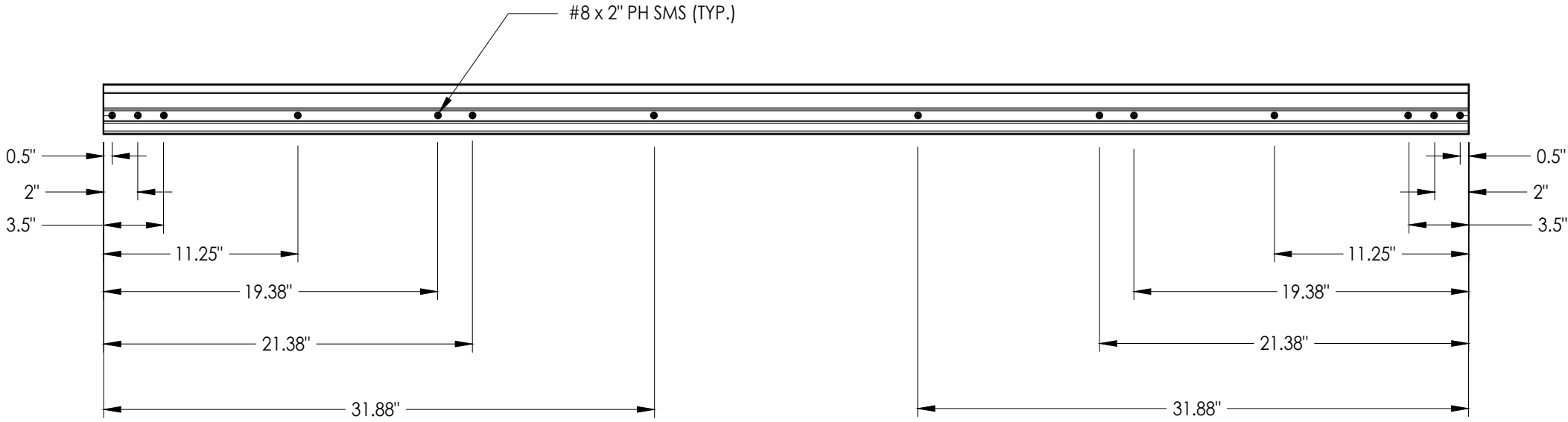
65 ASTRAGAL
DLP



CONCEALED STIFFENER



SLIDE BOLT ROD
Typ. top & bottom
of astragal
(2" throw)



#8 x 2" PH SMS (TYP.)

ASTRAGAL SCREW LOCATIONS

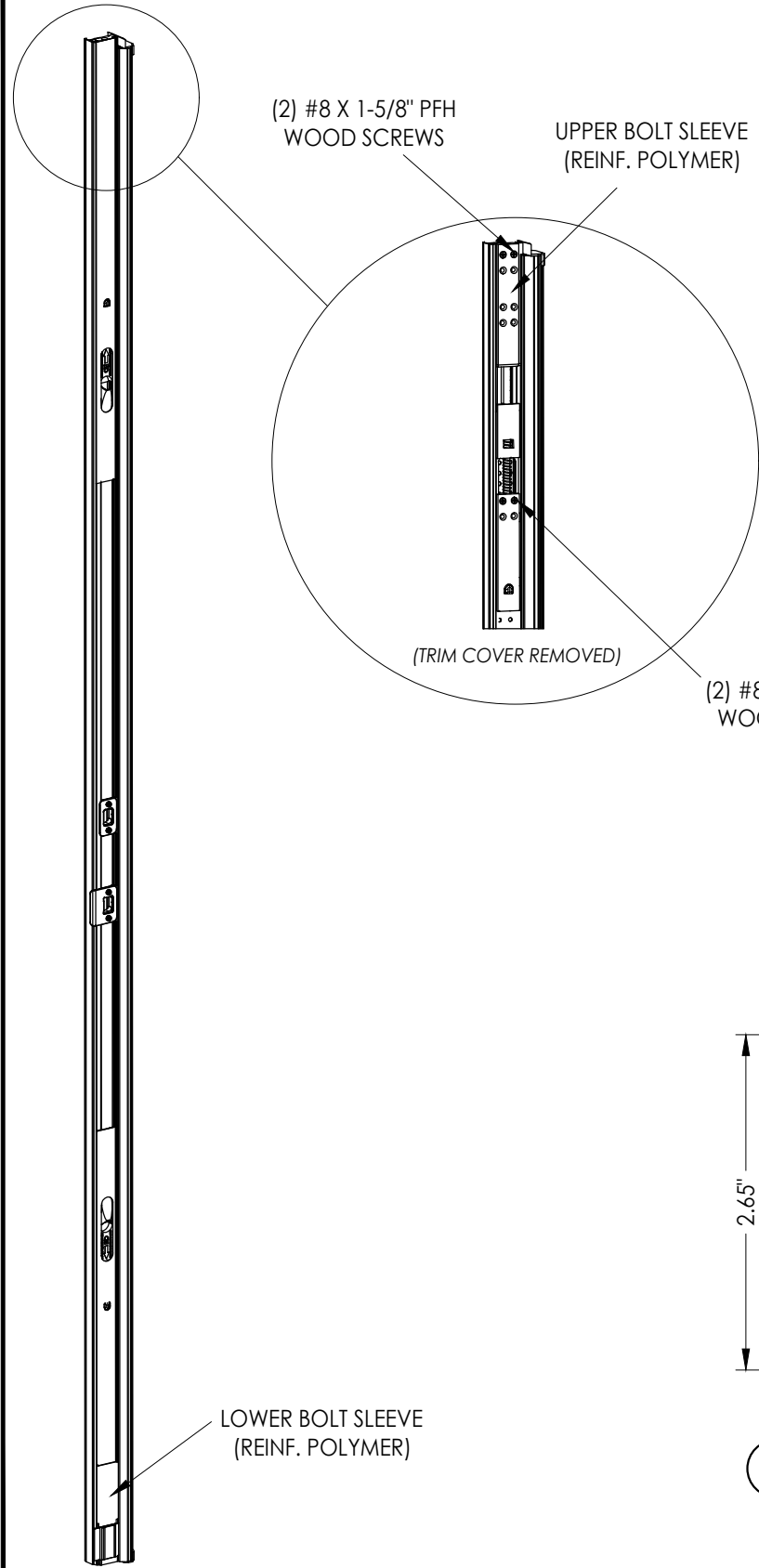
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5	7/02/26	UPDATE TO 9TH ED. (2026) FBC
4	8/17/23	UPDATE TO 8TH ED. (2023) FBC
3	7/29/20	UPDATE TO 7TH ED. (2020) FBC
2	7/24/17	& REVISE ENDURA ULT. ASTRAGAL
1	3/9/15	UPDATE TO 6TH ED. (2017) FBC
1	3/9/15	UPDATE TO 5TH ED. (2014) FBC
1	3/9/15	DATE

DATE:	2/19/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-15210.14
SHEET	7 OF 9

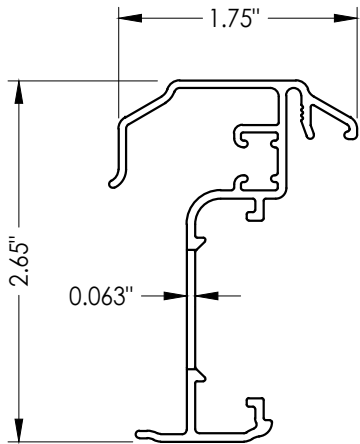
PRODUCT:	PLASTPRO INC. FIBERGLASS DOOR
PART OR ASSEMBLY:	ASTRAGAL DETAILS (DLP)

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

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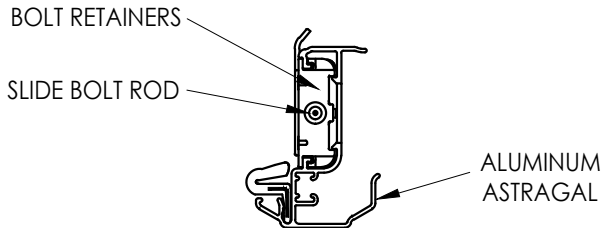


ULTIMATE HURRICANE ASTRAGAL

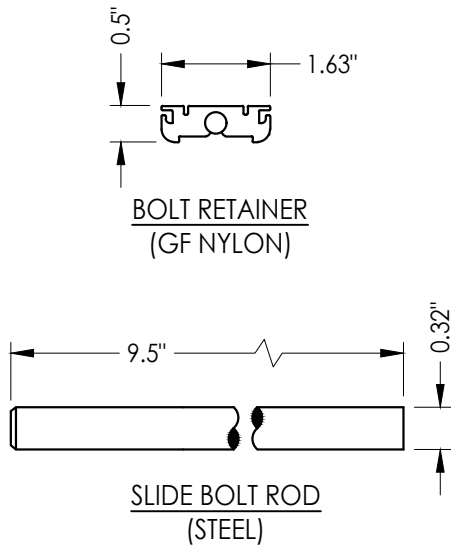
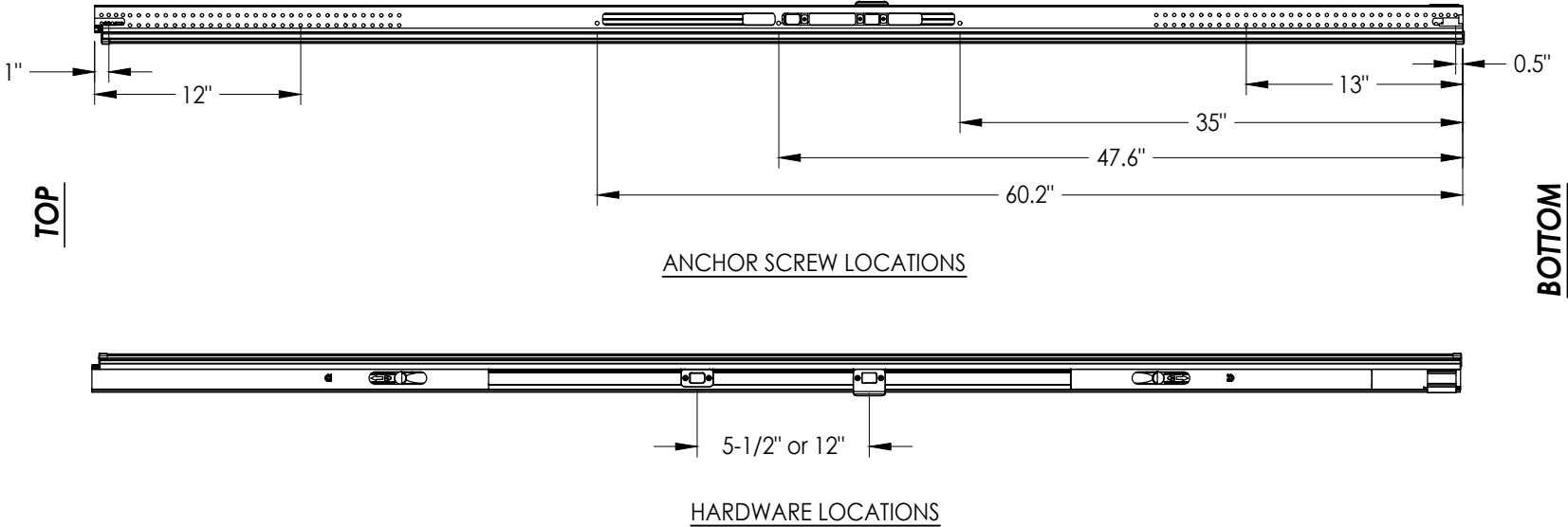


70 ALUMINUM ASTRAGAL
By Endura Products

HARDWARE TABLE		
MANUFACTURER	MODEL	MAX. DESIGN PRESSURE
ENDURA	ULTIMATE HURRICANE ASTRAGAL	± 45 PSF



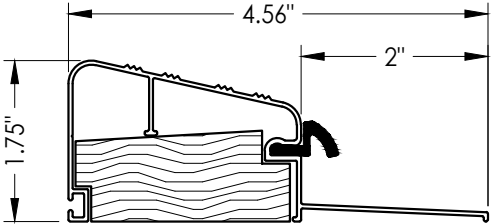
ALUMINUM ASTRAGAL ASSEMBLY



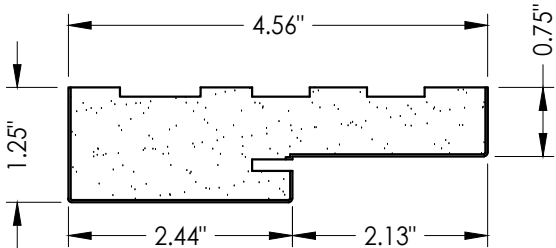
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: PLASTPRO INC. FIBERGLASS DOOR		PART OR ASSEMBLY: ASTRAGAL DETAILS (ULTIMATE HURRICANE)	
5	7/02/26	UPDATE TO 9TH ED. (2026)	FBC LFS
4	8/17/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/29/20	UPDATE TO 7TH ED. (2020)	FBC LFS
2	7/24/17	& REVISE ENDURA ULT. ASTRAGAL	JK
1	3/9/15	UPDATE TO 6TH ED. (2017)	JK
		UPDATE TO 5TH ED. (2014)	JK
		NO. DATE	BY
REVISIONS			
DATE: 2/19/13			
SCALE: N.T.S.			
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CHK. BY: LFS			
DRAWING NO.: FL-15210.14			
SHEET 8 OF 9			

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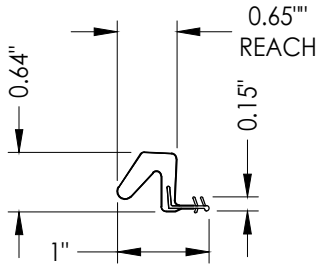
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
H	3/16" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	#9 X 2-1/2" PFH WOOD SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" x 2-1/4" PFH ITW CONCRETE SCREW	STEEL
N	3/16" x 2-3/4" PFH ITW CONCRETE SCREW	STEEL
1	POLY FIBER JAMB	POLY FIBER
2	JAMB (FINGER - JOINTED PINE)	WOOD
7	WEATHERSTRIP	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
30	OUTSWING THRESHOLD	ALUM/WOOD
32	ASTRAGAL STRIKE PLATE	STEEL
36	#6 X 3/4" PFH WS	STEEL
38	1/4-20 X 2" PH MS w/ 5/16" TH BARREL NUT	SS
39	SURFACE BOLT (IVES 453)	STEEL
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
58	#8 X 2" PFH WS	STEEL
60	SURFACE BOLT STRIKE PLATE	STEEL
65	ASTRAGAL BY DLP	STEEL
70	ASTRAGAL BY ENDURA	ALUM



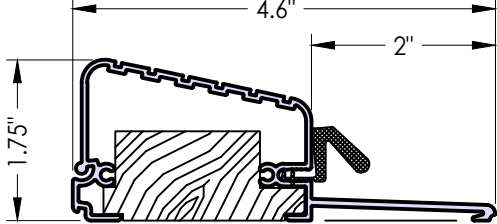
30 **OUTSWING THRESHOLD**
DLP (QOSR)



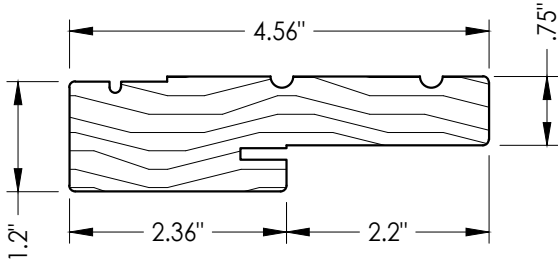
1 **POLY FIBER JAMB**
Plastpro



7 **WEATHERSTRIP**
Endura Force 5



34 **OUTSWING THRESHOLD**
Columbia High Dam (581)



2 **WOOD JAMB**

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:
PLASTPRO INC.
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

LFS	FBC	(2026)	9TH ED.	UPDATE TO	5
LFS	FBC	(2023)	8TH ED.	UPDATE TO	4
LFS	FBC	(2020)	7TH ED.	UPDATE TO	3
ASTRAGAL	ULT.	ENDURA	& REVISE		
FBC	(2017)	6TH ED.	UPDATE TO	7/24/17	2
FBC	(2014)	5TH ED.	UPDATE TO	3/9/15	1
BY				NO.	
REVISIONS				DATE	

DATE:	2/19/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-15210.14
SHEET	9 OF 9