

ALUMINUM ASTRAGAL

Utilizing a Fiberglass Door Panel

INSWING / OUTSWING

"IMPACT"

GENERAL NOTES

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.

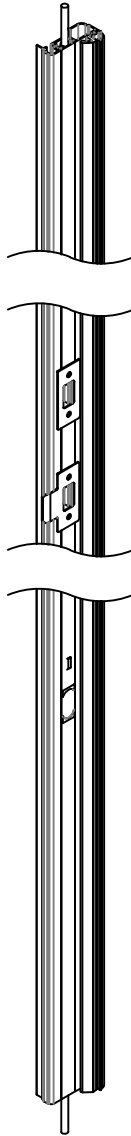
Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

When used in areas requiring wind borne debris protection, this product 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 excludes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4.

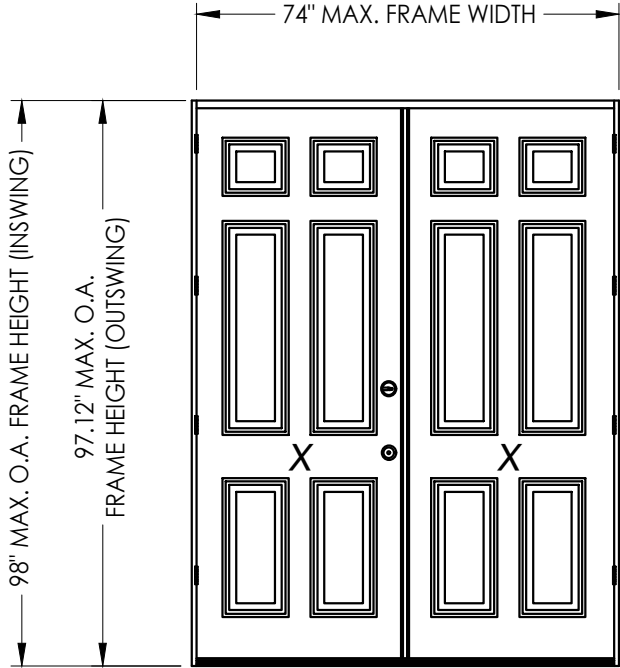
This product has been tested in the door panels as specified in this approval. Substitution into a similar (opaque or glazed) product may be approved for use by the local Authority Having Jurisdiction. In all cases, the fiberglass door used must possess a comparable current Florida Statewide product approval. The door panel size and design pressure (DP) rating shall not exceed the sizes and DP ratings shown in this approval or the fiberglass side hinged swing door approval being used.
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	Elevation & Door Panel Details
3	Horizontal & Vertical Cross Sections
4	Aluminum Astragal Details
5	Buck & Frame Anchoring
6	Bill of Materials & Components

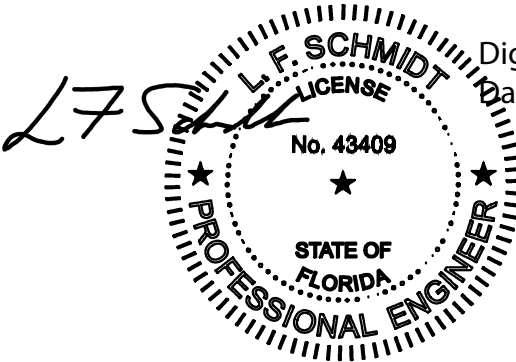


ALUMINUM ASTRAGAL



DOUBLE DOOR ELEVATION

DOOR PANEL	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)		DESIGN PRESSURE (PSF)	
		INSWING		OUTSWING	
		POS.	NEG.	POS.	NEG.
PLASTPRO FIBERGLASS	74.0" x 98.0"	+45.0	-50.0	+45.0	-45.0



Digitally signed by Lyndon F Schmidt
Date: 2025.03.12 14:19:52 -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.

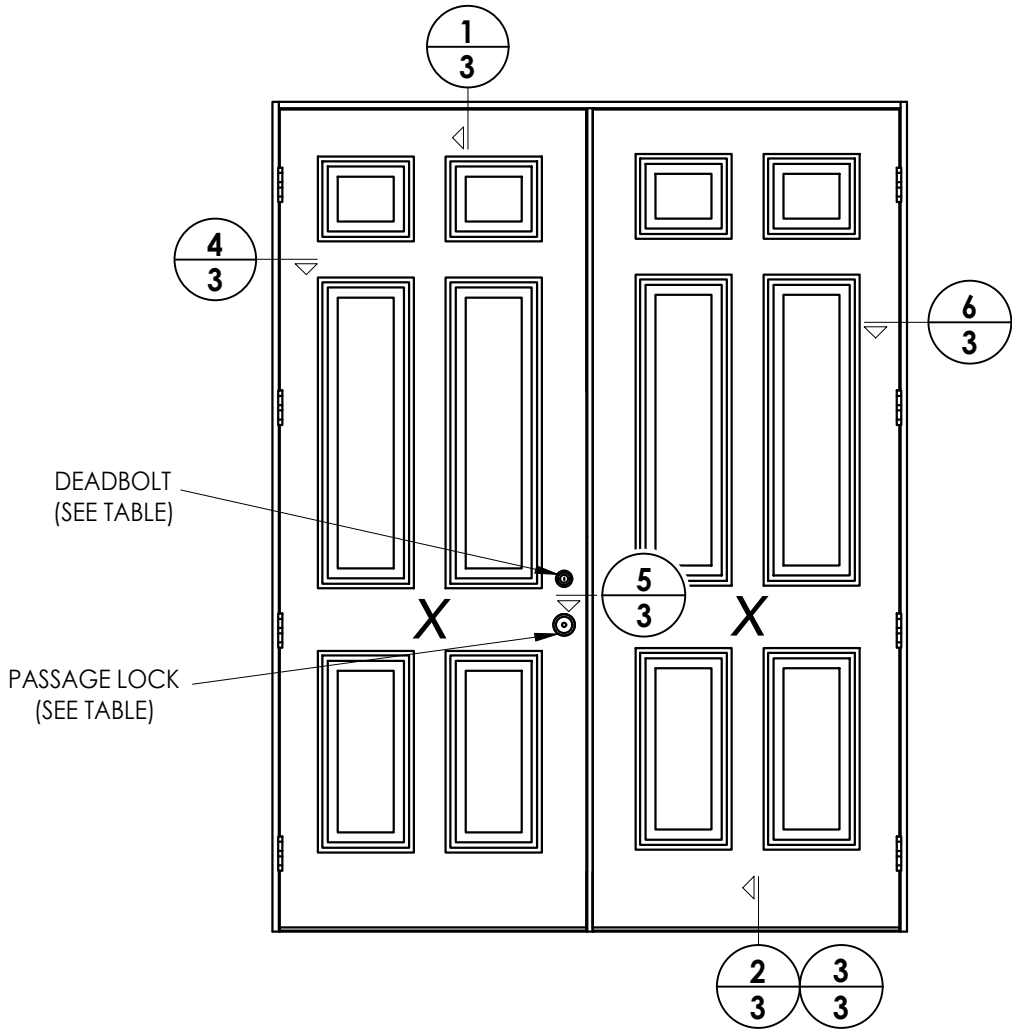
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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Lyndon F. Schmidt
P.E. No. 43409

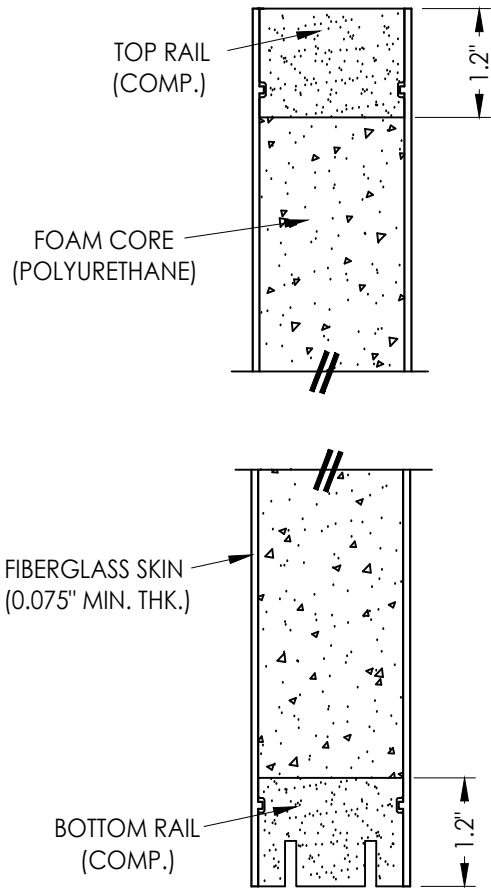
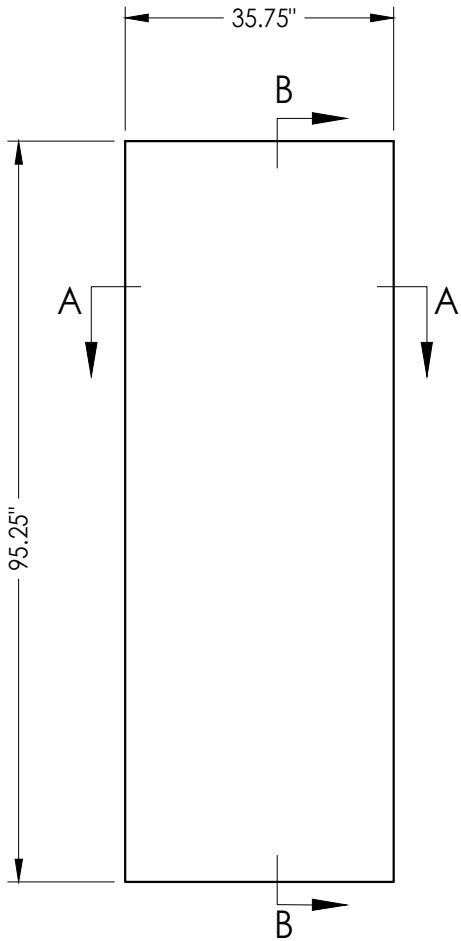
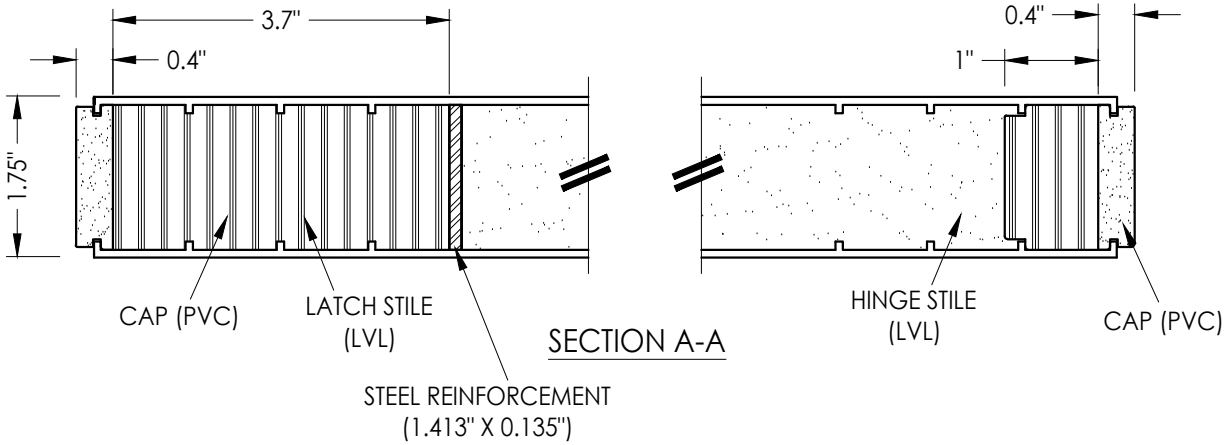
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	DLP ALUMINUM ASTRAGAL
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
LFS	ADD FLAT PROFILE ASTRAGAL
LFS	UPDATE TO 8TH ED. (2023) FBC
BY	DATE
NO.	1
DATE	6/07/22
DATE:	6/07/22
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-14805.5
SHEET	1 OF 6

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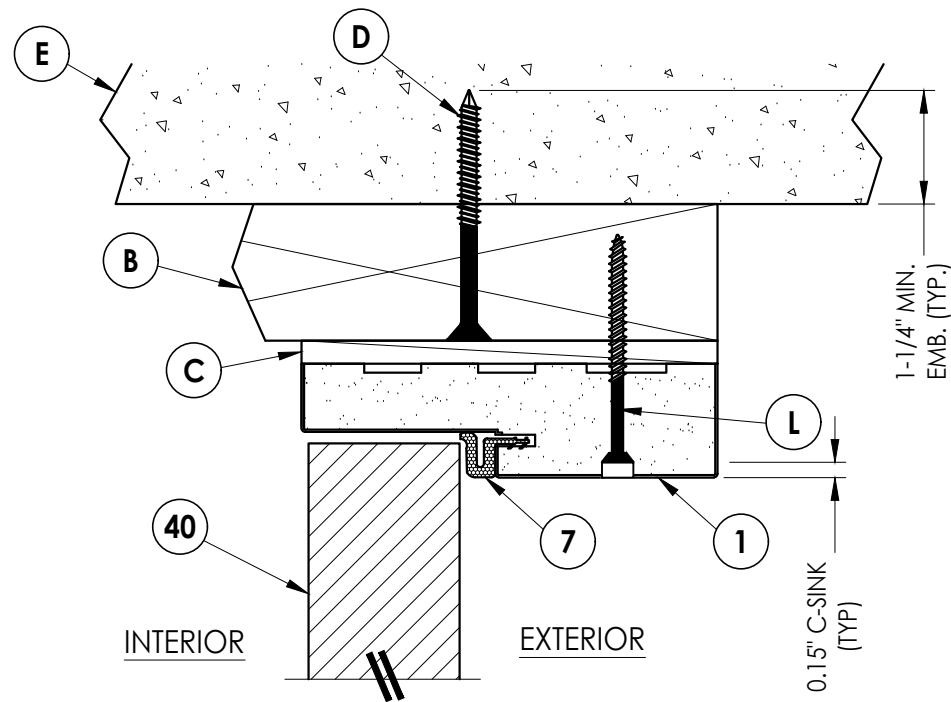


HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	"F" SERIES (F10)
	DEADBOLT:	"B" SERIES (B60/62)
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)

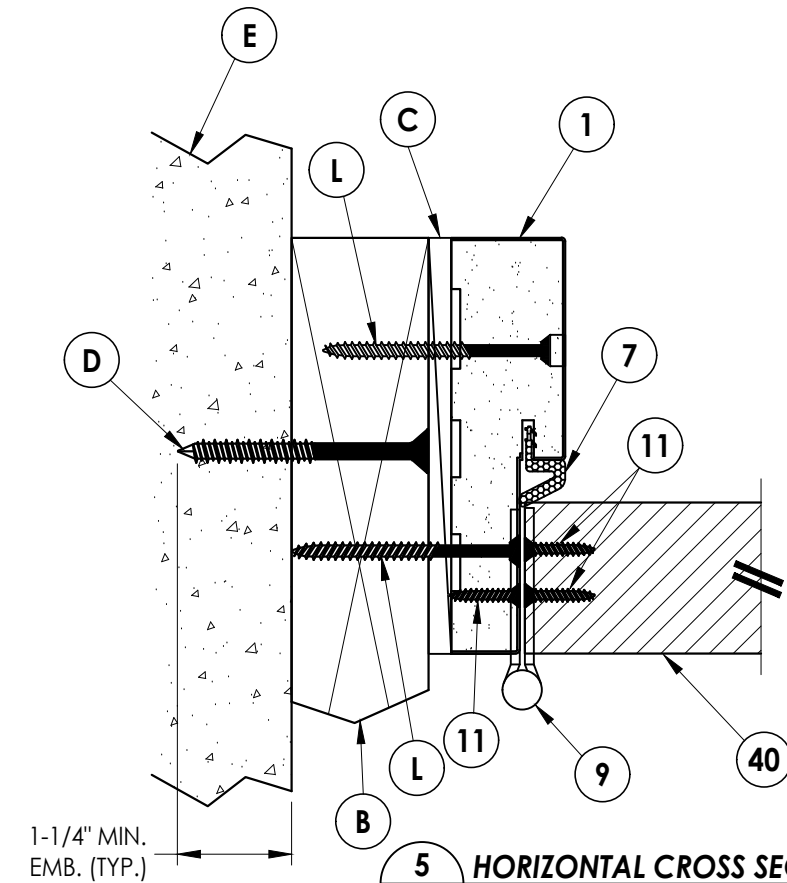


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: DLP ALUMINUM ASTRAGAL				PART OR ASSEMBLY: ELEVATION & DOOR PANEL DETAILS			
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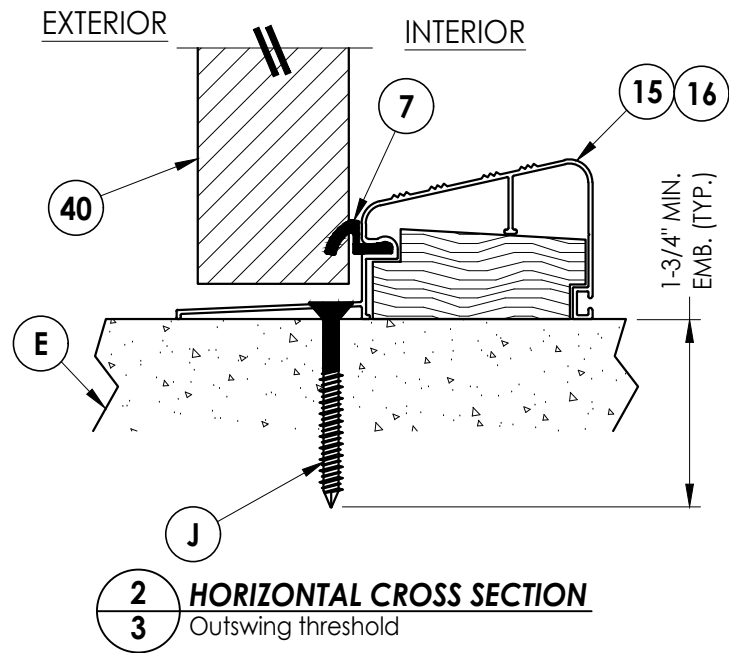
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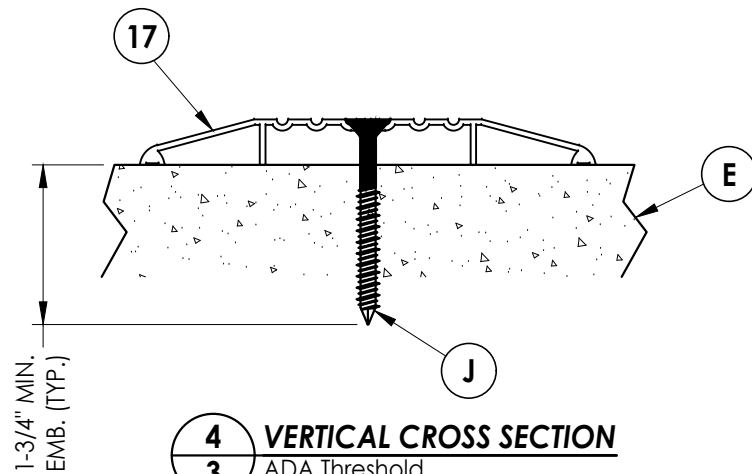
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3 **VERTICAL CROSS SECTION**
Inswing shown
Outswing also approved



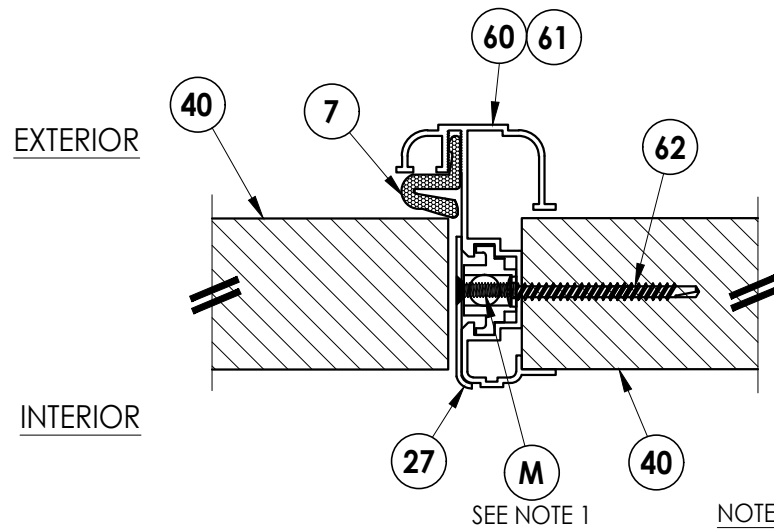
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3 **HORIZONTAL CROSS SECTION**
Inswing shown
Outswing also approved



2
3 **HORIZONTAL CROSS SECTION**
Outswing threshold

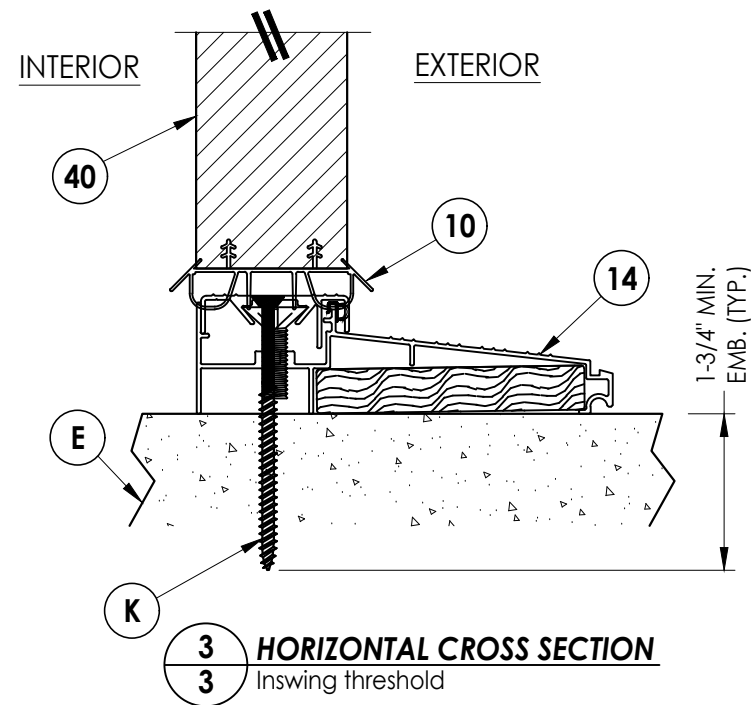


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3 **VERTICAL CROSS SECTION**
ADA Threshold

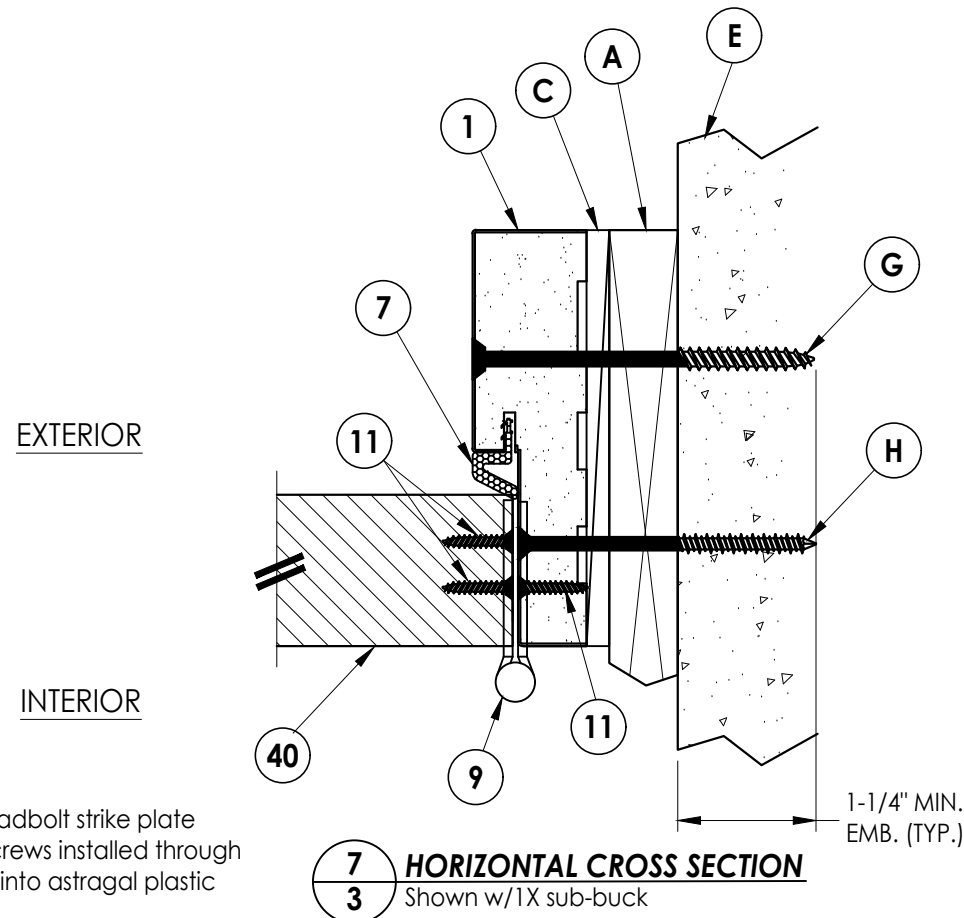


6
3 **HORIZONTAL CROSS SECTION**
Inswing shown
Outswing also approved

NOTE:
1. Latch & deadbolt strike plate machine screws installed through strike plate into astragal plastic receiver.



3
3 **HORIZONTAL CROSS SECTION**
Inswing threshold



7
3 **HORIZONTAL CROSS SECTION**
Shown w/1X sub-buck

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P.E. No. 43409

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FBPE Registry No. 9813

PRODUCT: DLP
ALUMINUM ASTRAGAL

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
2	3/04/25	ADD FLAT PROFILE ASTRAGAL
1	8/09/23	UPDATE TO 8TH ED. (2023) FBC

DATE: 6/07/22

SCALE: N.T.S.

DWG. BY: LFS

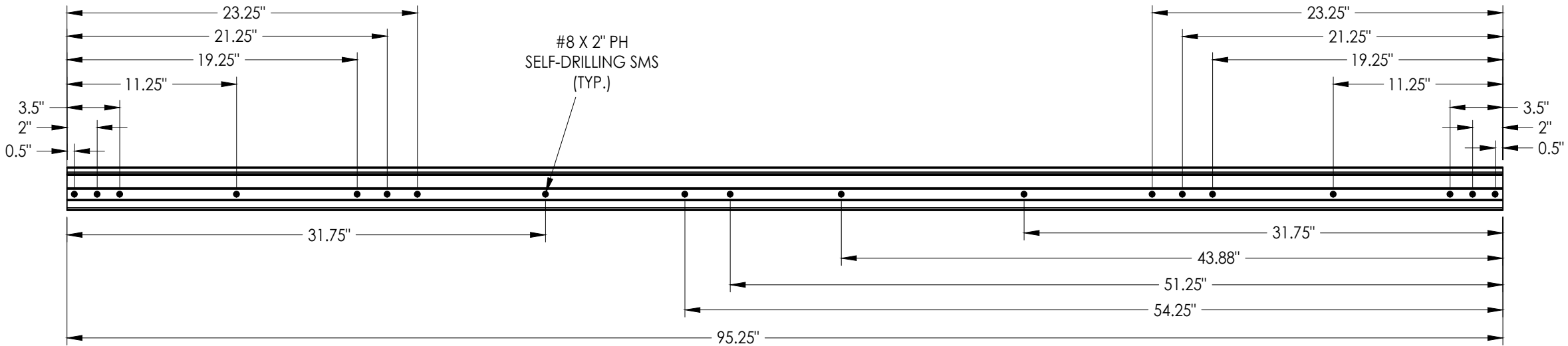
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DRAWING NO.: FL-14805.5

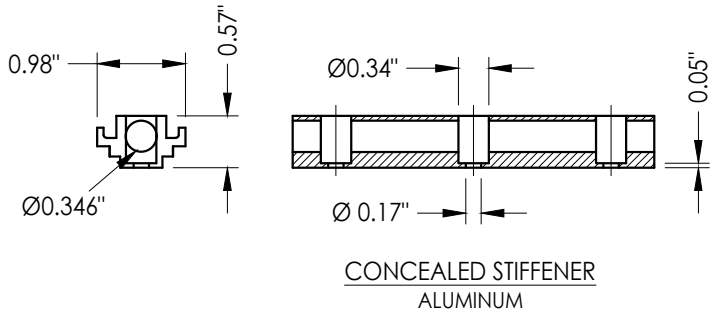
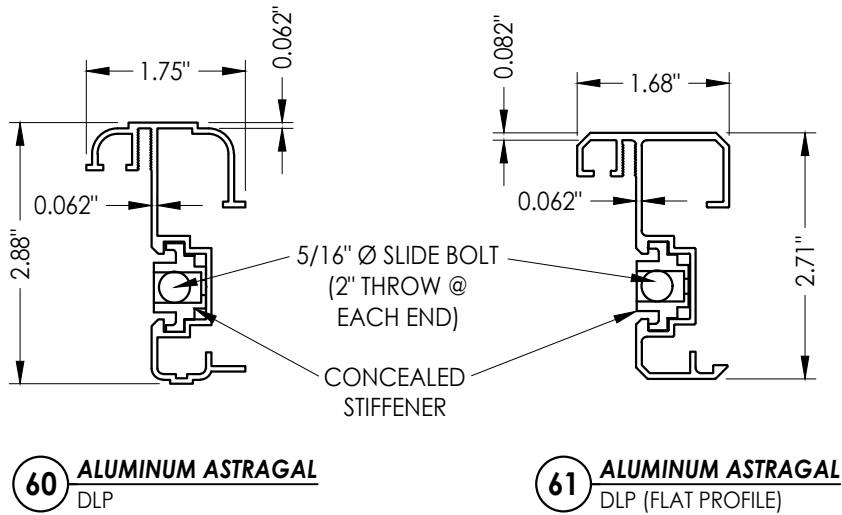
SHEET 3 OF 6

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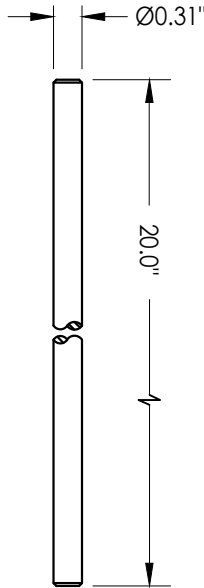
BOTTOM



ASTRAGAL SCREW LOCATIONS



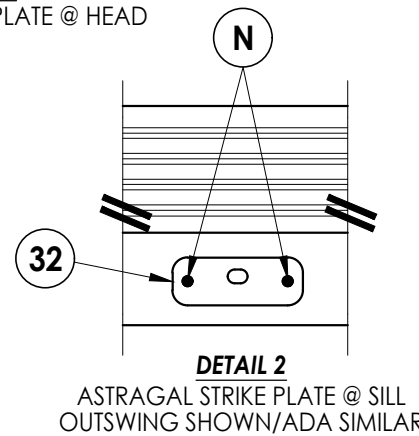
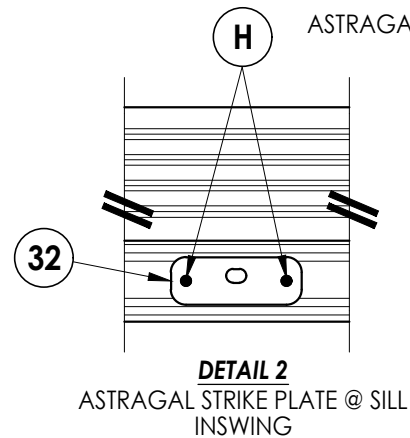
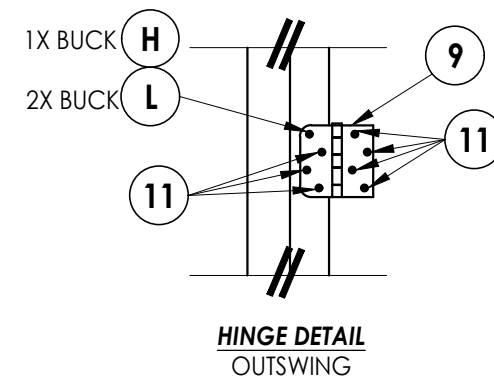
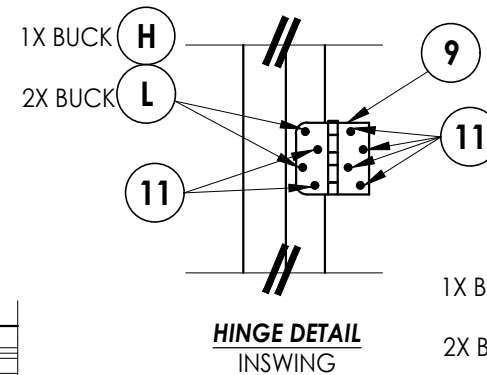
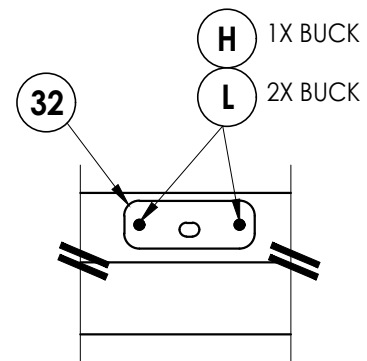
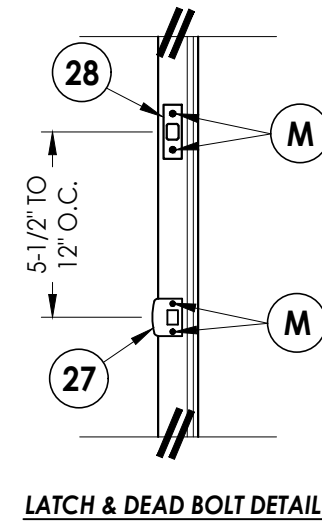
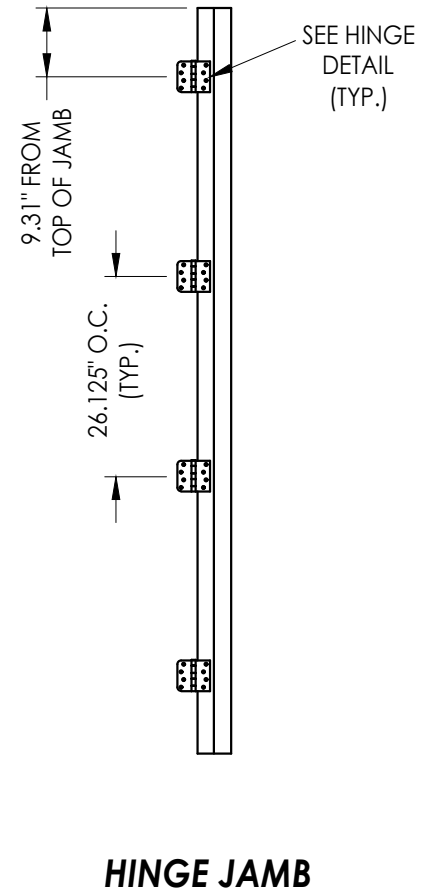
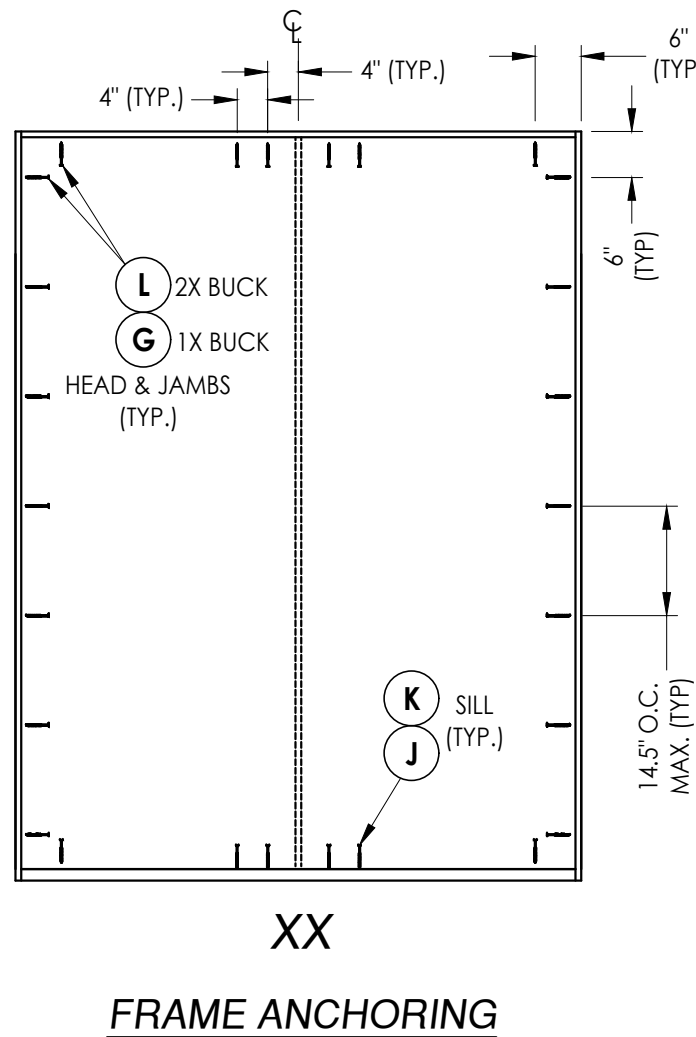
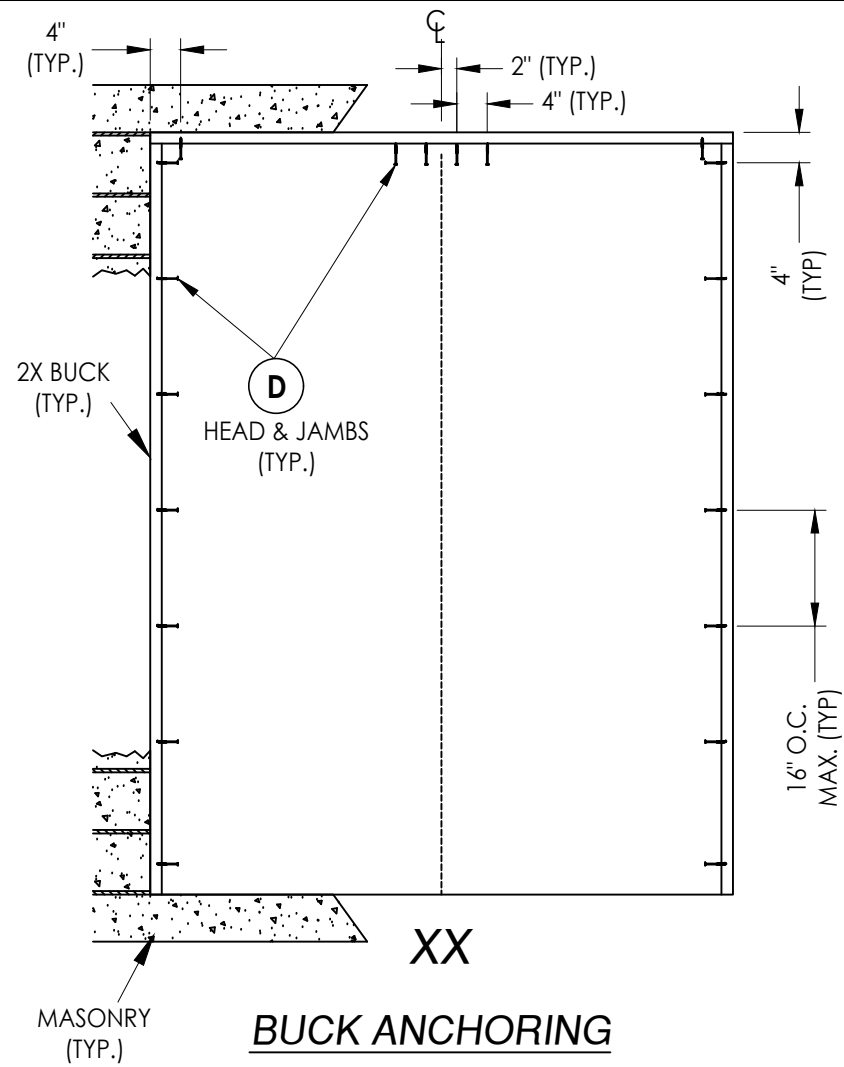
ALUMINUM SLIDE BOLT ROD
(TYP. @ TOP & BOTTOM w/ 2" THROW)



ALUMINUM SLIDE BOLT ACTUATOR
(TYP. @ TOP & BOTTOM)



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PRODUCT: DLP ALUMINUM ASTRAGAL		PART OR ASSEMBLY: ALUMINUM ASTRAGAL DETAILS	
		LFS	BY
		LFS	BY
		REVISIONS	
		2	3/04/25
		1	8/09/23
		NO.	DATE
DATE: 6/07/22			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-14805.5			
SHEET 4 OF 6			



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 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:

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

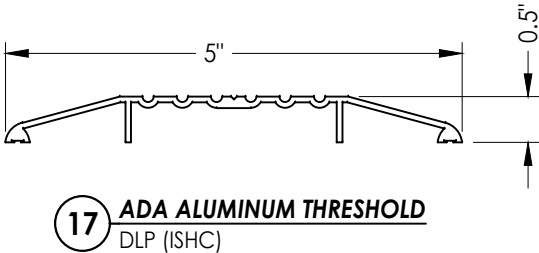
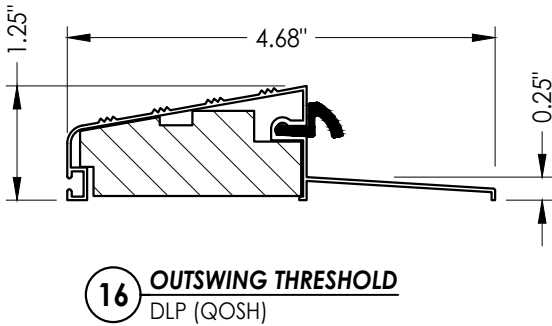
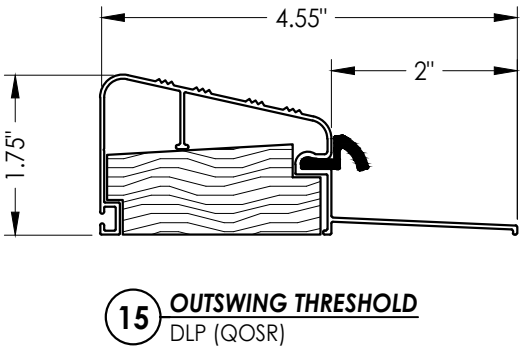
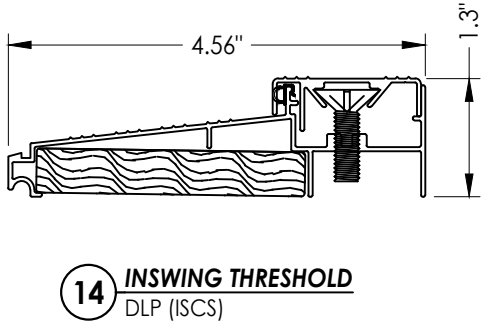
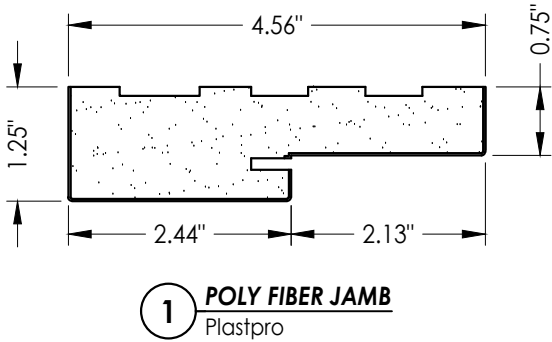
PRODUCT:		DLP ALUMINUM ASTRAGAL	
PART OR ASSEMBLY:		BUCK & FRAME ANCHORING	
2	3/04/25	ADD FLAT PROFILE ASTRAGAL	LFS
1	8/09/23	UPDATE TO 8TH ED. (2023)	LFS
NO.	DATE		BY
		REVISIONS	
DATE: 8/29/11			
SCALE: N.T.S.			
DWG. BY:		LFS	
CHK. BY:		RW	
DRAWING NO.: FL-14805.5			
SHEET 5		OF 6	

Documents Prepared By:
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P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
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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" 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
G	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	3/16" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
M	#8 X 5/8" FH MS	STEEL
N	3/16" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
1	POLY FIBER JAMB	COMP
7	WEATHERSTRIP	FOAM
9	4" X 4" BUTT HINGE	STEEL
10	DOOR SWEEP	VINYL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
14	INSWING THRESHOLD	ALUM/WOOD
15	OUTSWING THRESHOLD	ALUM/WOOD
16	OUTSWING THRESHOLD	ALUM/COMP
17	ADA THRESHOLD	ALUM
25	#12 X 1" PFH SELF DRILLING SMS	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
32	ASTRAGAL STRIKE PLATE (1-3/16" X 3-1/4" X 0.075" THICK)	STEEL
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
60	DLP ASTRAGAL	ALUM
61	DLP ASTRAGAL (FLAT PROFILE)	ALUM
62	#8 X 2" PPH SELF-DRILLING SMS	STEEL



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PRODUCT: DLP ALUMINUM ASTRAGAL		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
		LFS	
		LFS	
		BY	
		REVISIONS	
		2	3/04/25 ADD FLAT PROFILE ASTRAGAL
		1	8/09/23 UPDATE TO 8TH ED. (2023) FBC
		NO	DATE
DATE: 6/07/22			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-14805.5			
SHEET 6 OF 6			