

ALUMINUM ASTRAGAL

Utilizing a Fiberglass Door Panel

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 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.

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.

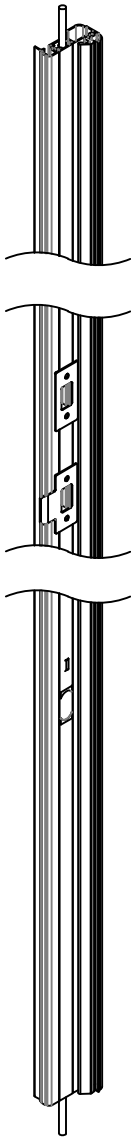
Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6.

Outswing configurations meet the water infiltration requirements for the "HVHZ".
7.

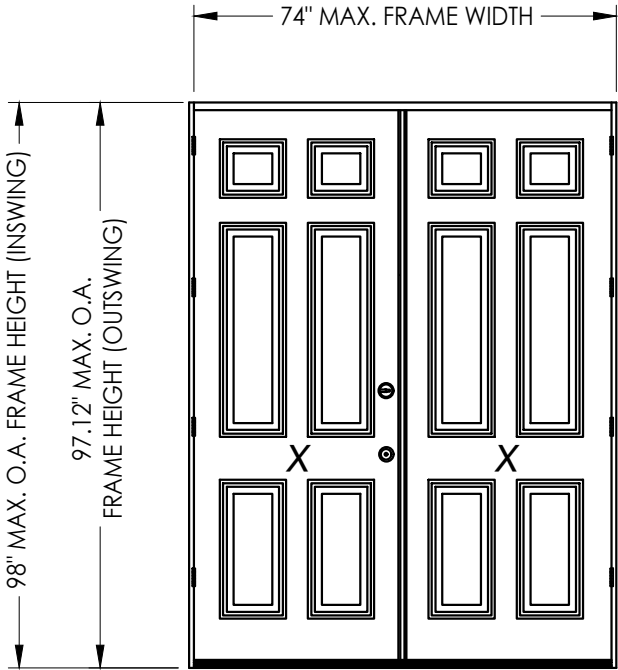
All steel shall be protected as specified in FBC Section 2222.6.
8.

Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

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6	Bill of Materials & Components

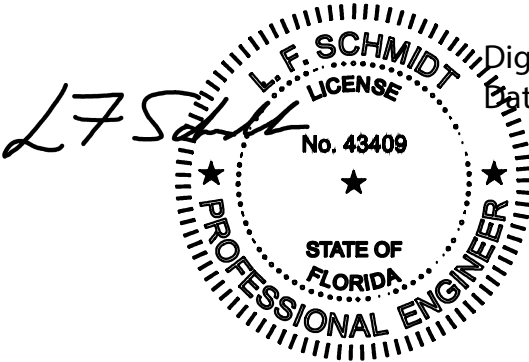


ALUMINUM ASTRAGAL



DOUBLE DOOR ELEVATION

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



Digitally signed by Lyndon F Schmidt
Date: 2025.03.12 14:19:25 -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
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BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:	DLP ALUMINUM ASTRAGAL	
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
NO.	DATE	REVISIONS
2	3/04/25	ADD FLAT PROFILE ASTRAGAL
1	8/09/23	UPDATE TO 8TH ED. (2023) FBC
1	8/09/23	UPDATE TO 8TH ED. (2023) FBC
1	8/09/23	UPDATE TO 8TH ED. (2023) FBC

DATE: 6/07/22

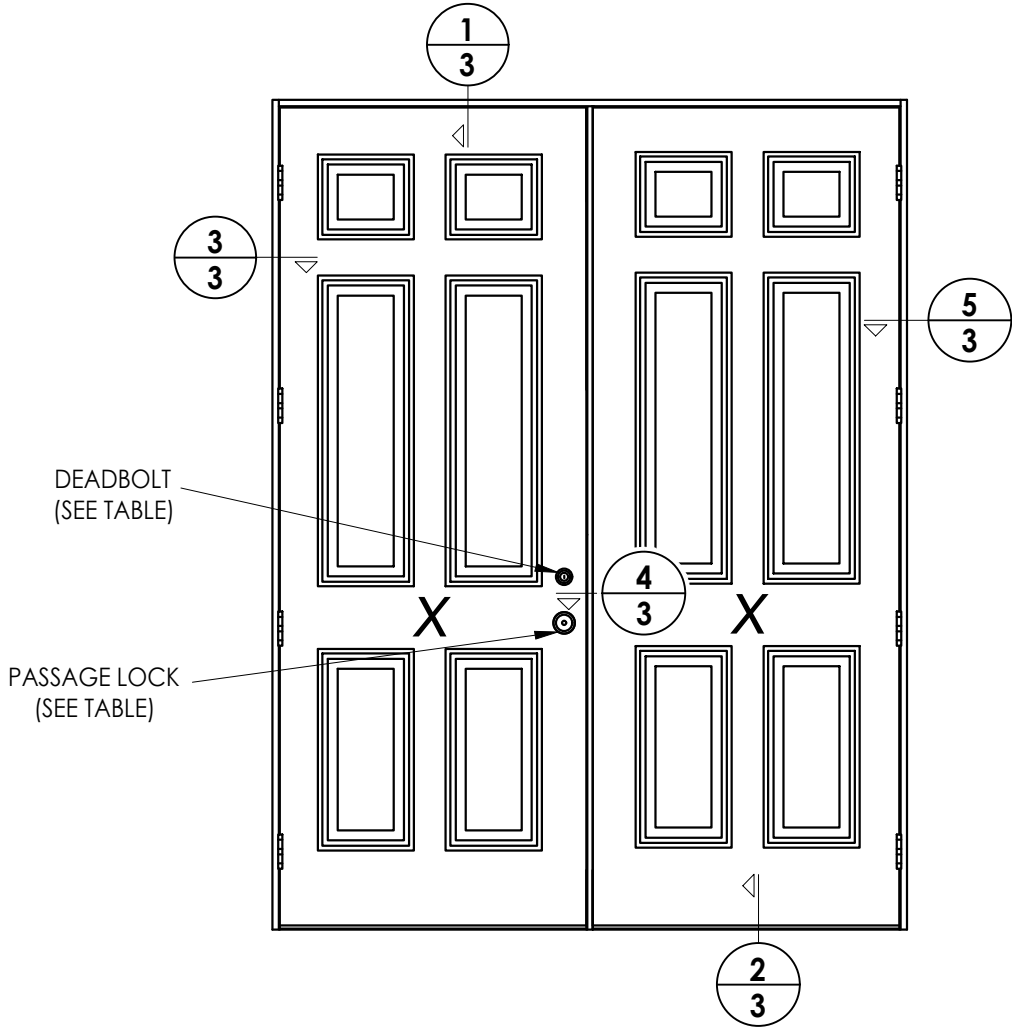
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DWG. BY: LFS

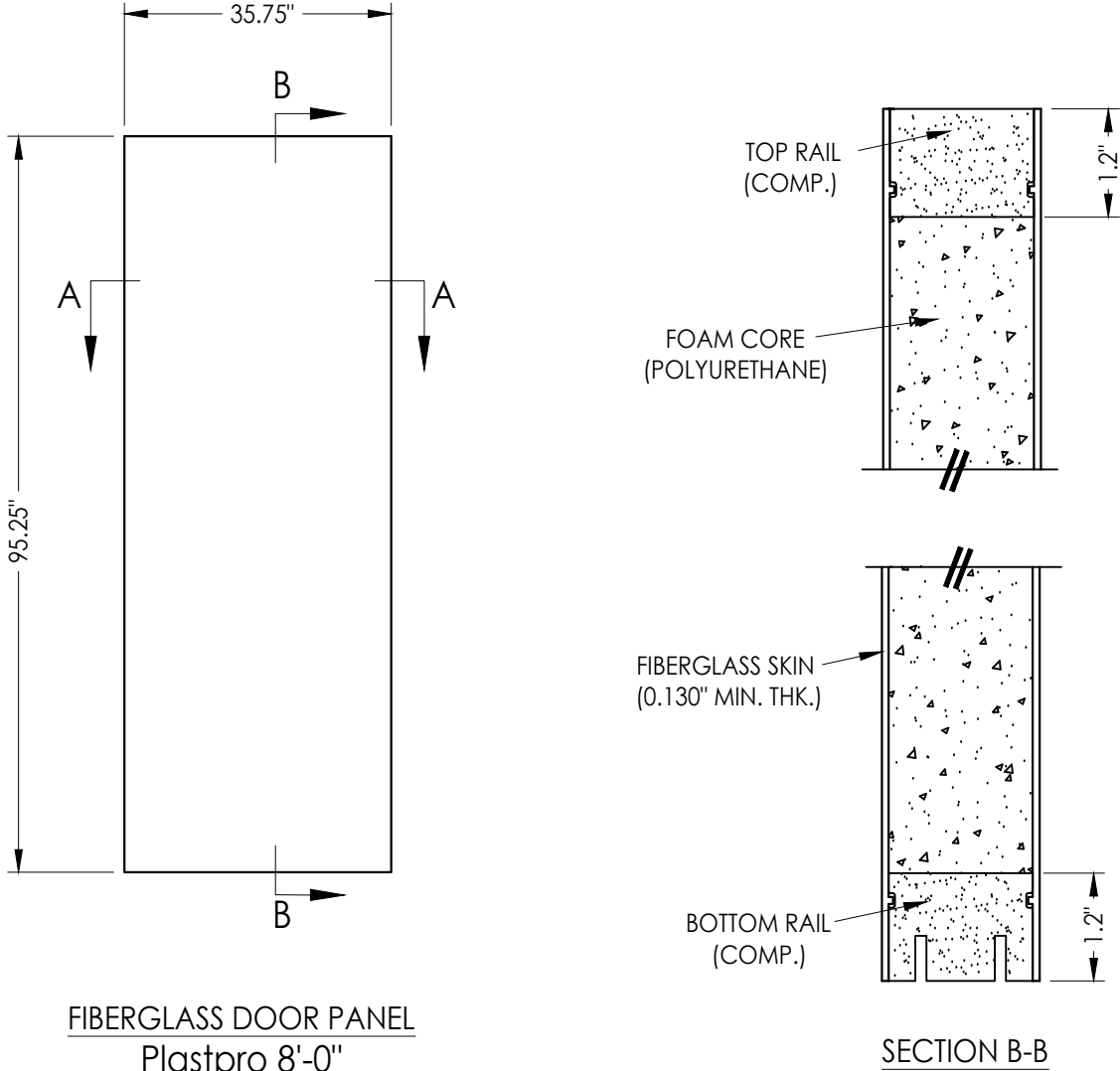
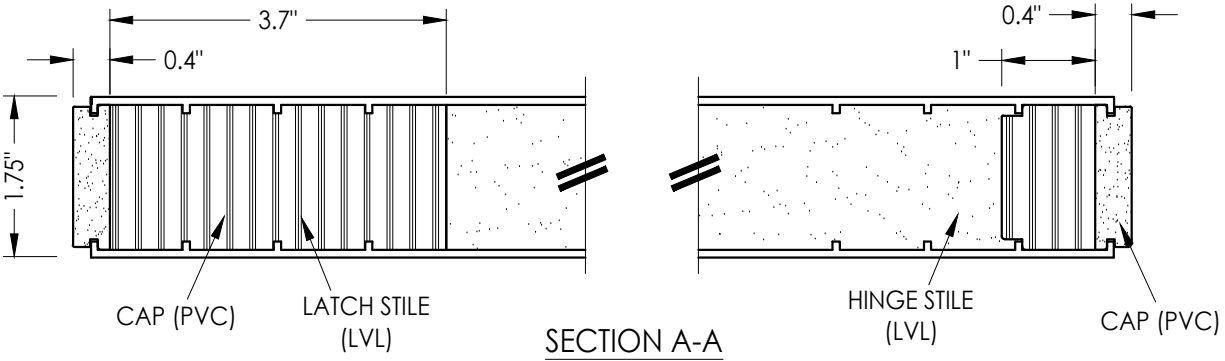
CHK. BY: RW

DRAWING NO.: FL-14805.7

SHEET 1 OF 6



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



PRODUCT:		DLP		ALUMINUM ASTRAGAL	
PART OR ASSEMBLY:		ELEVATION & DOOR PANEL DETAILS			
2	3/04/25	ADD FLAT PROFILE ASTRAGAL		LFS	
1	8/09/23	UPDATE TO 8TH ED. (2023)		FBC	
NO.	DATE			BY	
				REVISIONS	
DATE: 6/07/22					
SCALE: N.T.S.					
DWG. BY: LFS					
CHK. BY: RW					
DRAWING NO.: FL-14805.7					
SHEET 2 OF 6					

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INTERIOR

EXTERIOR

[illegible]

Diagram illustrating the horizontal cross section of a door threshold assembly. The diagram shows the threshold (1) installed between the exterior (left) and interior (right) spaces. The threshold is shown in cross-section, revealing its internal structure and the door (15) passing over it. The threshold is secured to the concrete floor (E) using a screw (J). The diagram includes labels for the exterior, interior, and the threshold itself. A dimension line indicates a minimum height of 1-3/4" MIN. EMB. (TYP.) for the threshold.

2 **HORIZONTAL CROSS SECTION**
3 Outswing threshold

Technical drawing of a door assembly showing a cross-section of the door, frame, and wall. The drawing includes labels A through H and numbers 1, 7, 11, 40, and 9. A dimension line at the bottom right indicates a minimum depth of 1-1/4 inches for the embedding (EMB. (TYP.)).

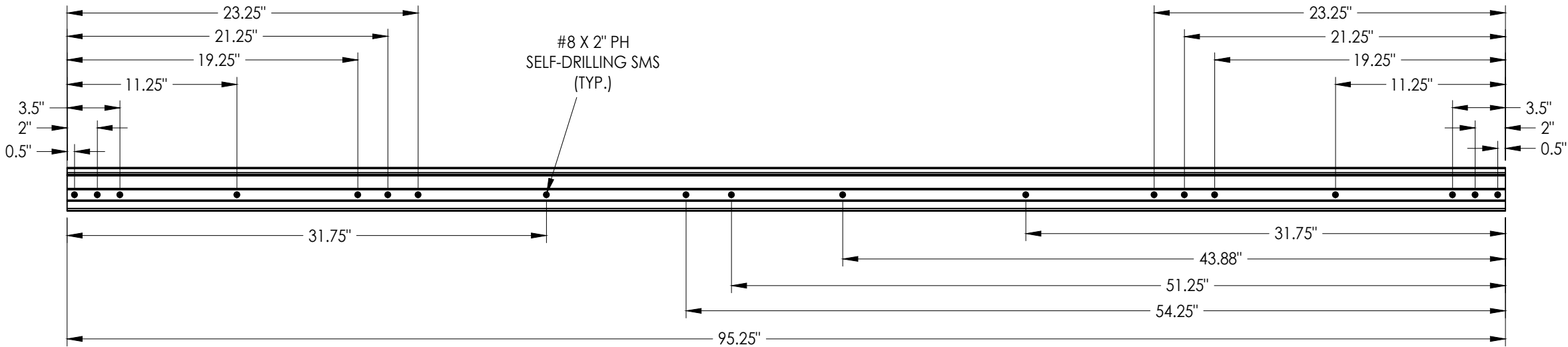
PRODUCT: DLP ALUMINUM ASTRAGAL	PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS
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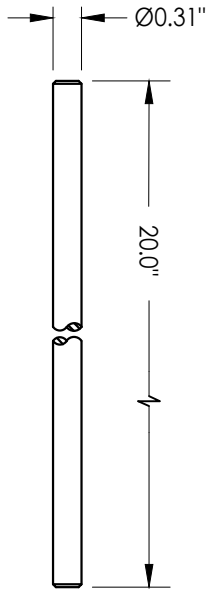
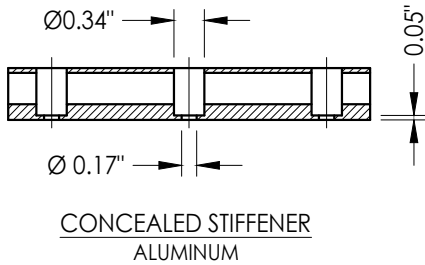
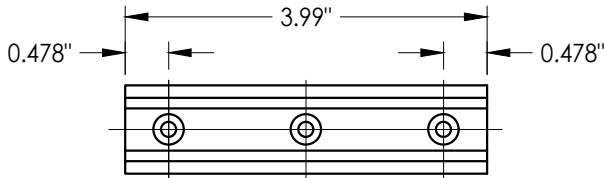
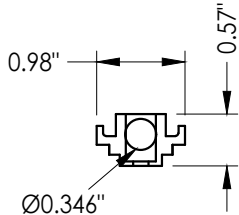
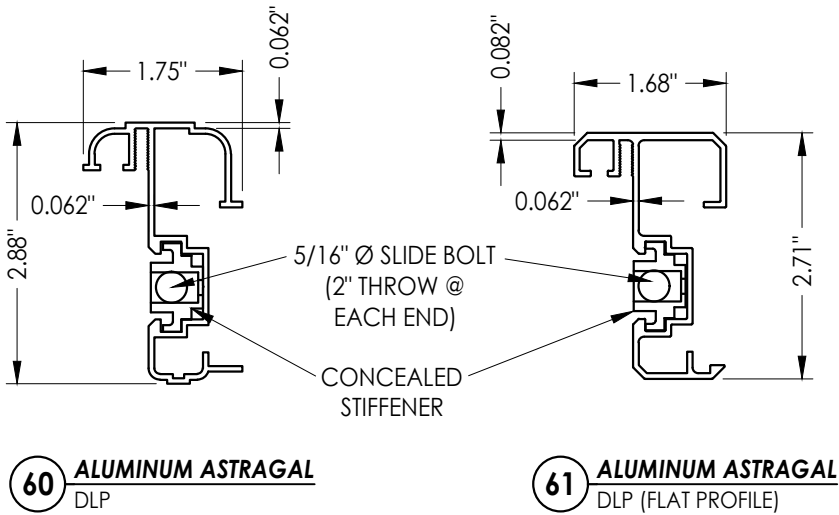
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BOTTOM



TOP

ASTRAGAL SCREW LOCATIONS

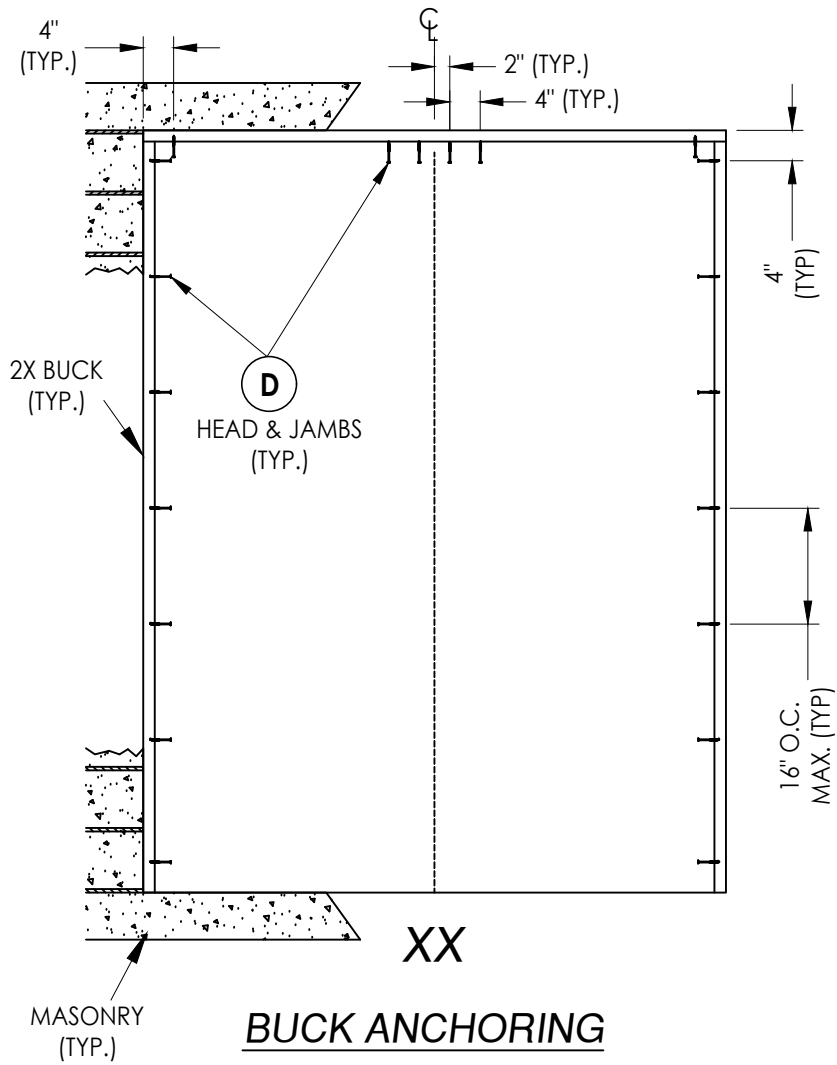


PRODUCT: DLP ALUMINUM ASTRAGAL		PART OR ASSEMBLY: ALUMINUM ASTRAGAL DETAILS							
				2	3/04/25	ADD FLAT PROFILE ASTRAGAL	LFS		
				1	8/09/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
				NO.	DATE		BY		
REVISIONS									
DATE: 6/07/22									
SCALE: N.T.S.									
DWG. BY: LFS									
CHK. BY: RW									
DRAWING NO.: FL-14805.7									
SHEET 4 OF 6									

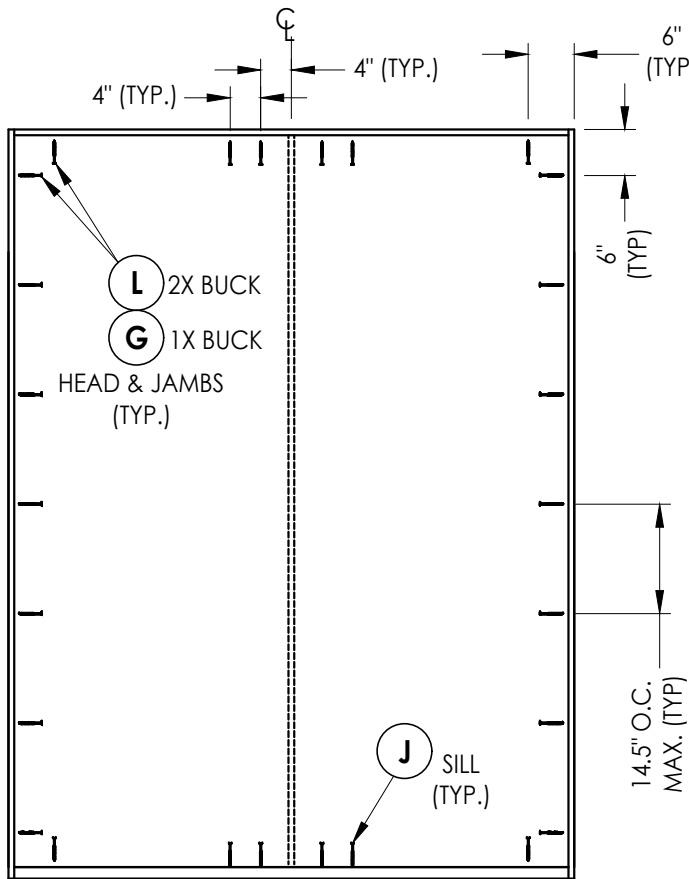
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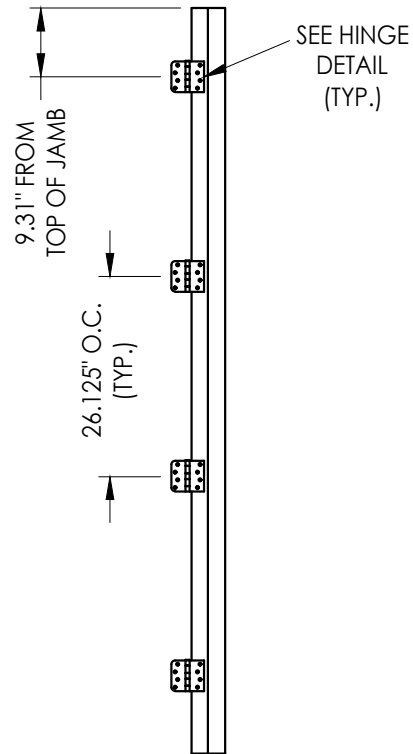
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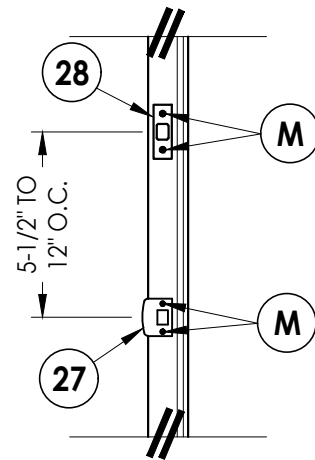
BUCK ANCHORING



FRAME ANCHORING



HINGE JAMB



LATCH & DEAD BOLT DETAIL

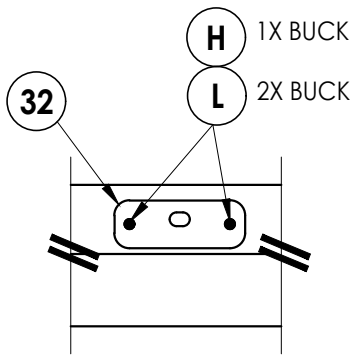
CONCRETE ANCHOR NOTES:

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:

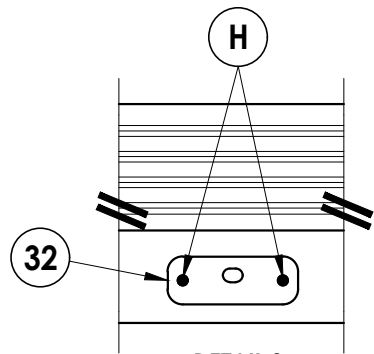
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

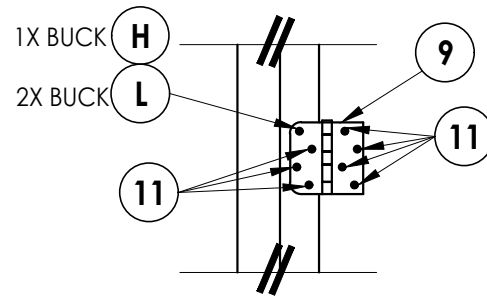
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



DETAIL 1
ASTRAGAL STRIKE PLATE @ HEAD



DETAIL 2
ASTRAGAL STRIKE PLATE @ SILL OUTSWING



HINGE DETAIL OUTSWING

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PRODUCT: DLP
ALUMINUM ASTRAGAL

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

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

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

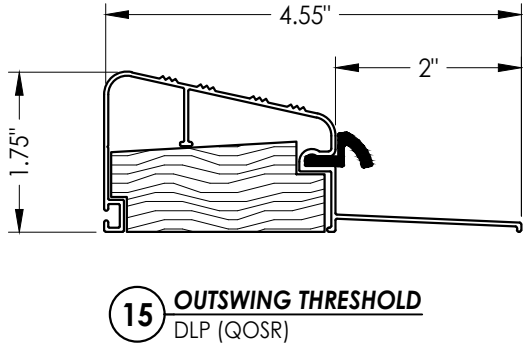
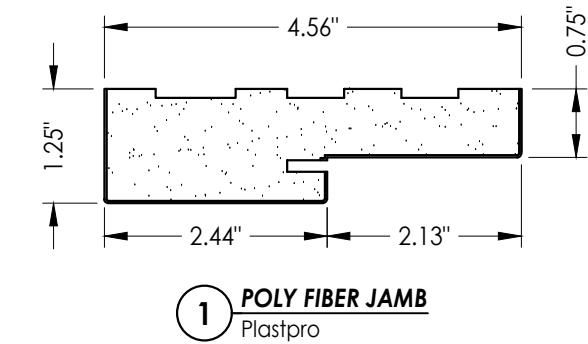
DRAWING NO.:

FL-14805.7

SHEET 5 OF 6

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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
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
M	#8 X 1-1/2" PFH WOOD SCREW	STEEL
1	POLY FIBER JAMB	COMP
7	WEATHERSTRIP	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
15	OUTSWING THRESHOLD	ALUM/WOOD
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	LFS
				1	8/09/23	UPDATE TO 8TH ED. (2023)	FBC
				NO	DATE		
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DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-14805.7							
SHEET 6 OF 6							