

# ALUMINUM ASTRAGAL

## Utilizing a Fiberglass Door Panel

### INSWING / 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 excluding the "High Velocity Hurricane Zone" (HVHZ).
2.

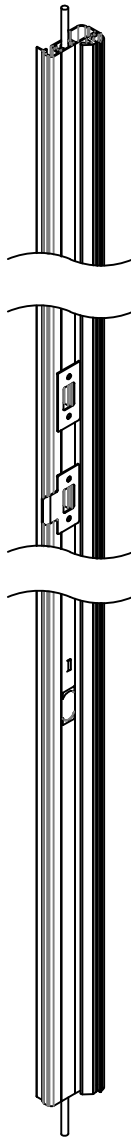
Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

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.
4.

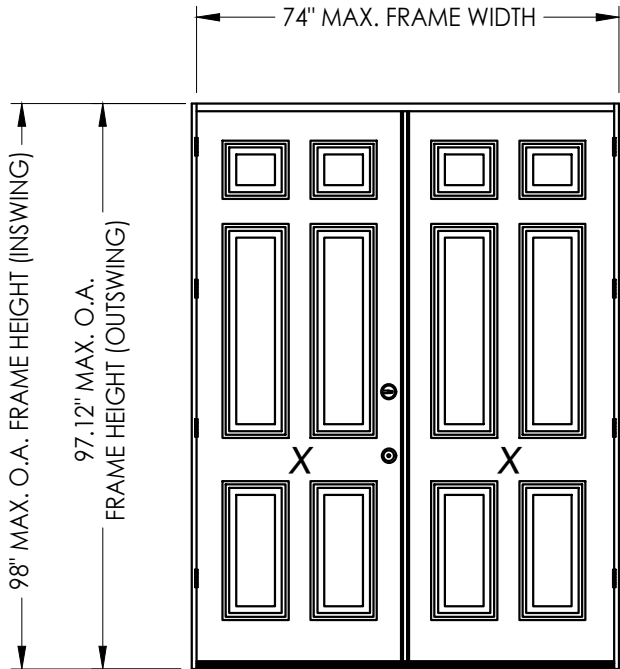
This product has been tested in the door panels as specified in this approval. Substitution into a similar (opaque or glazed) product may be approved for use by the local Authority Having Jurisdiction. In all cases, the fiberglass door used must possess a comparable current Florida Statewide product 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.

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| 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                      |

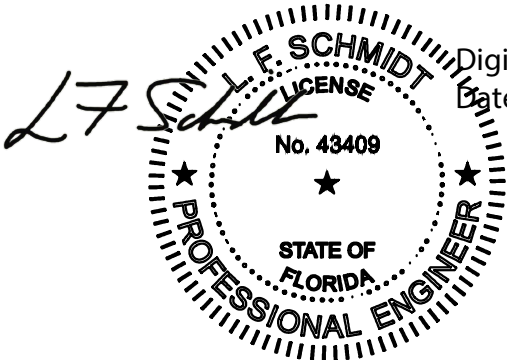


ALUMINUM ASTRAGAL



DOUBLE DOOR ELEVATION

| DOOR PANEL          | MAX. FRAME DIMENSION | DESIGN PRESSURE (PSF) INSWING |       | DESIGN PRESSURE (PSF) 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: 2026.07.22 15:27:17 -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.

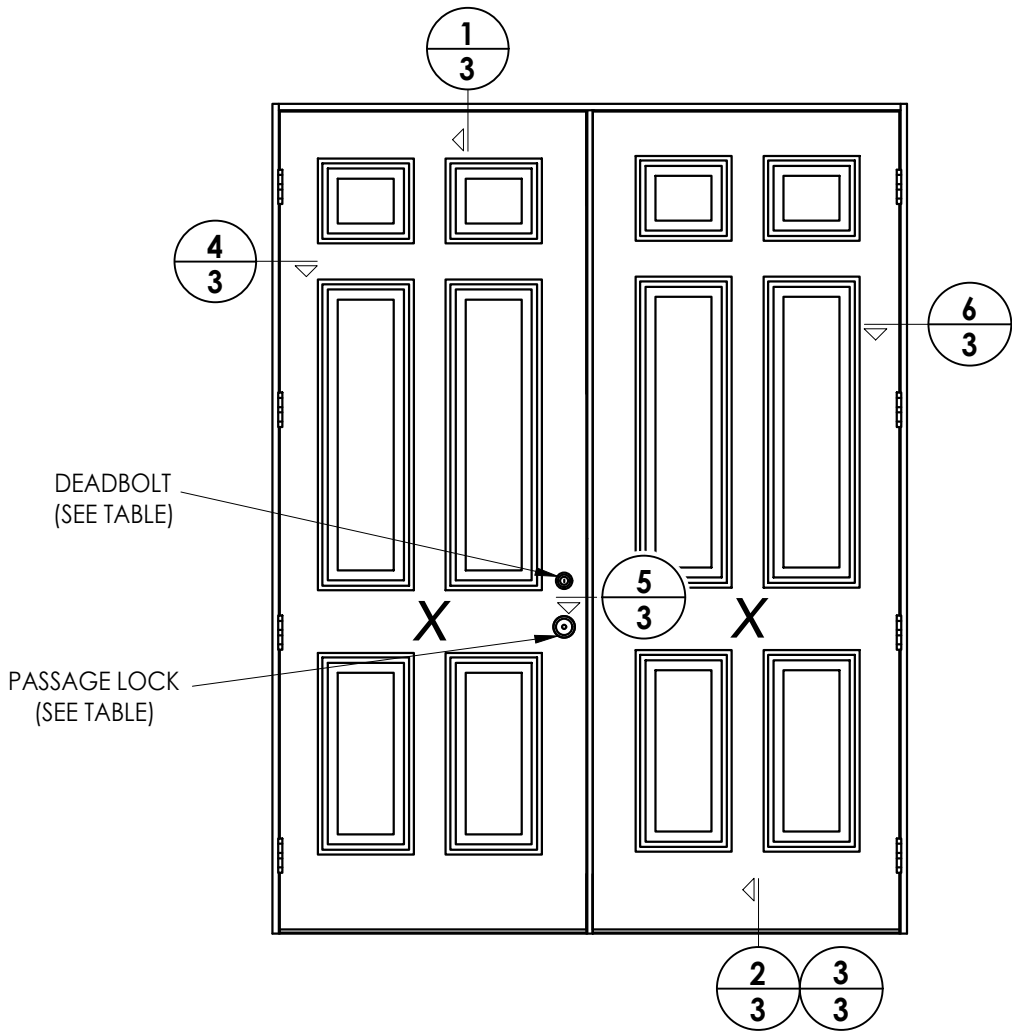
THIS PRODUCT APPROVAL IS VALID  
ONLY FOR THE STATE OF FLORIDA

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

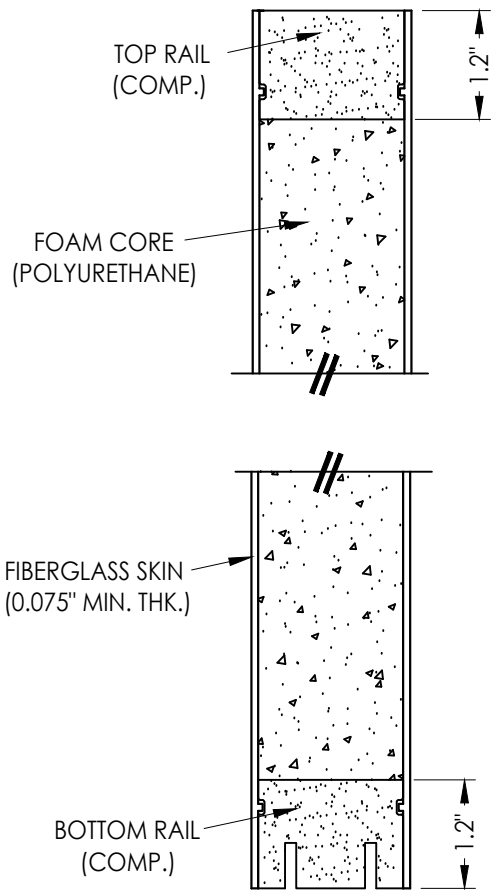
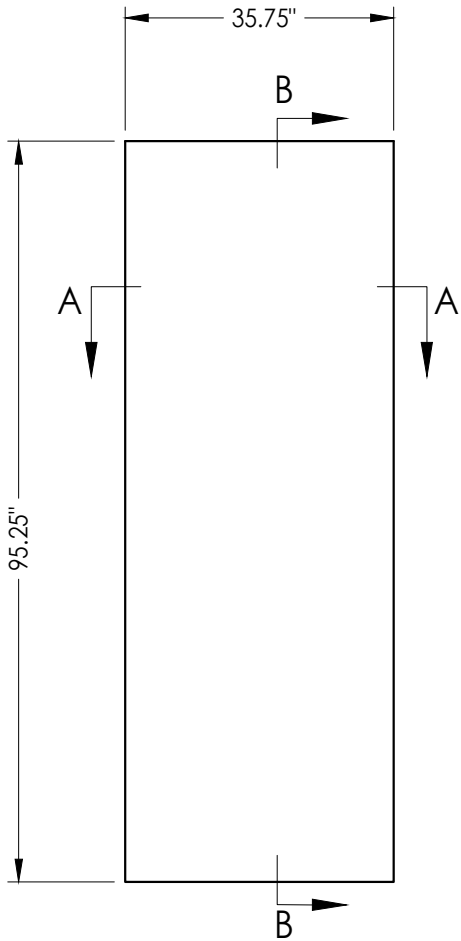
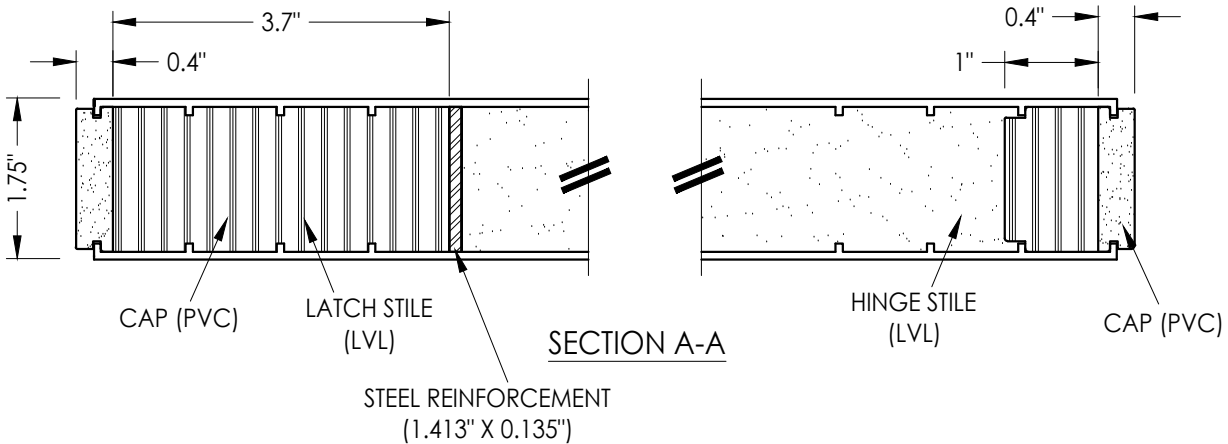
**RW**  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Vairico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

|                                                                       |  |           |          |         |                          |  |  |  |  |
|-----------------------------------------------------------------------|--|-----------|----------|---------|--------------------------|--|--|--|--|
| PRODUCT: DLP ALUMINUM ASTRAGAL                                        |  | LFS       | FBC      | 7/02/26 | UPDATE TO 9TH ED. (2026) |  |  |  |  |
| PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES |  | LFS       | ASTRAGAL | 3/04/25 | ADD FLAT PROFILE         |  |  |  |  |
|                                                                       |  | LFS       | FBC      | 8/09/23 | UPDATE TO 8TH ED. (2023) |  |  |  |  |
|                                                                       |  | BY        | DATE     | NO.     |                          |  |  |  |  |
|                                                                       |  | REVISIONS |          |         |                          |  |  |  |  |
| DATE: 6/07/22                                                         |  |           |          |         |                          |  |  |  |  |
| SCALE: N.T.S.                                                         |  |           |          |         |                          |  |  |  |  |
| DWG. BY: LFS                                                          |  |           |          |         |                          |  |  |  |  |
| CHK. BY: RW                                                           |  |           |          |         |                          |  |  |  |  |
| DRAWING NO.: FL-14805.5                                               |  |           |          |         |                          |  |  |  |  |
| SHEET 1 OF 6                                                          |  |           |          |         |                          |  |  |  |  |

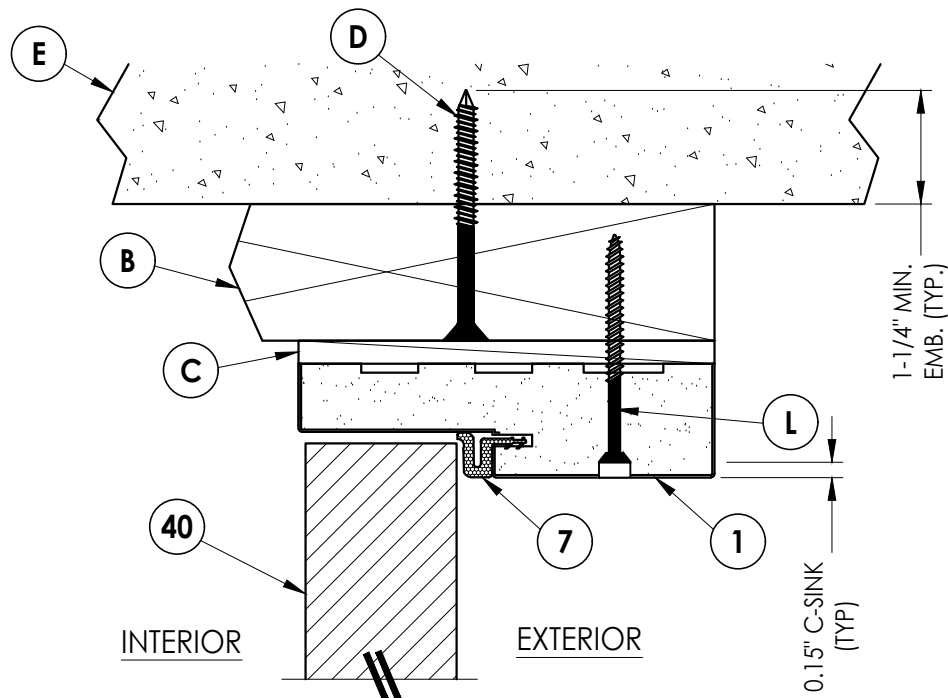
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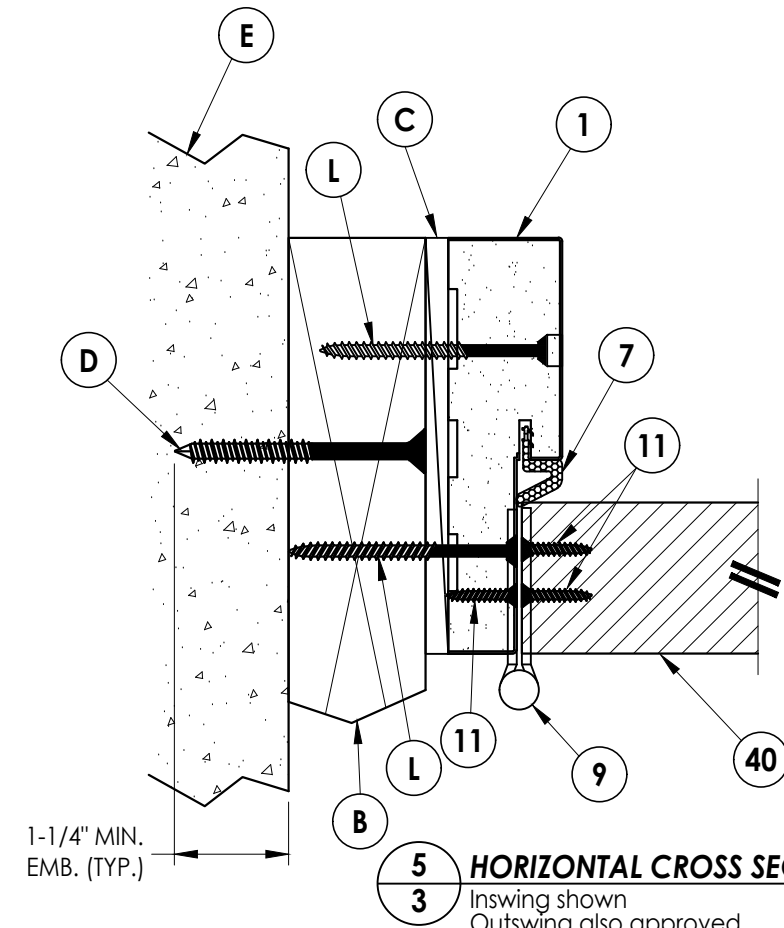
| HARDWARE TABLE |           |                        |
|----------------|-----------|------------------------|
| MANUFACTURER   | MODEL     |                        |
| SCHLAGE        | KNOB:     | "F" SERIES (F10)       |
|                | DEADBOLT: | "B" SERIES (B60/62)    |
| KWIKSET        | KNOB: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



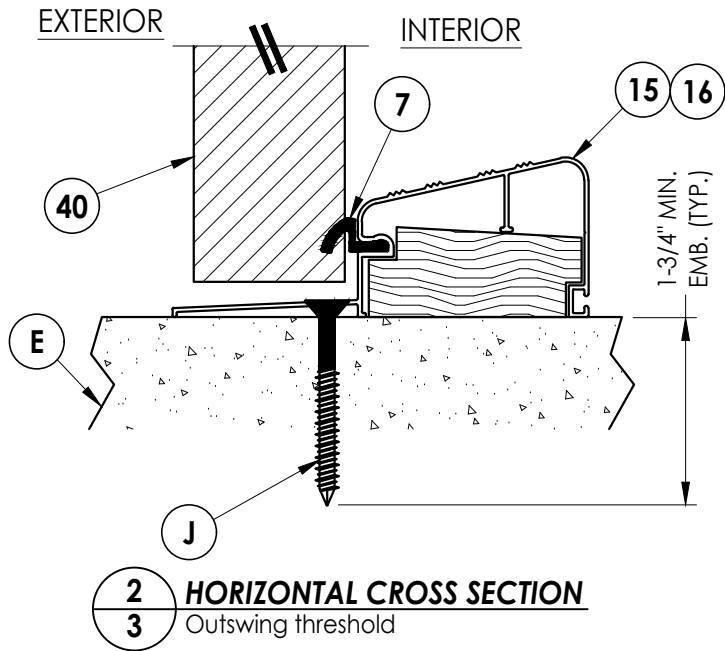
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| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |  |  |  | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |  |  |
| PRODUCT:<br><br>DLP<br><br>ALUMINUM ASTRAGAL                  |  |  |  | PART OR ASSEMBLY:<br><br>ELEVATION &<br><br>DOOR PANEL DETAILS                                                     |  |  |  |
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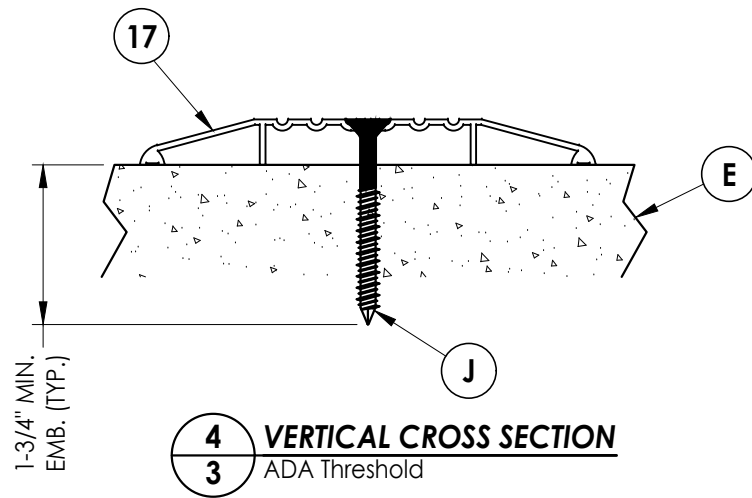
**1**  
**3** **VERTICAL CROSS SECTION**  
Inswing shown  
Outswing also approved



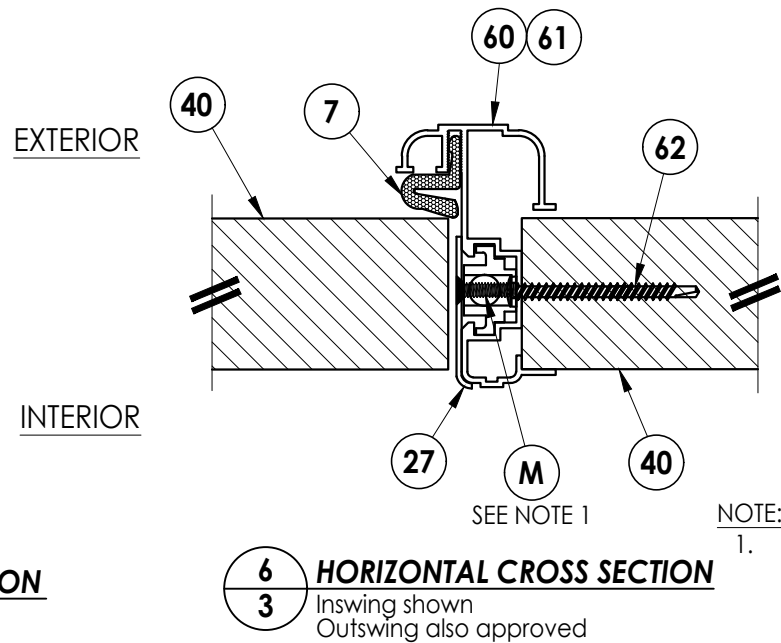
**5**  
**3** **HORIZONTAL CROSS SECTION**  
Inswing shown  
Outswing also approved



**2**  
**3** **HORIZONTAL CROSS SECTION**  
Outswing threshold

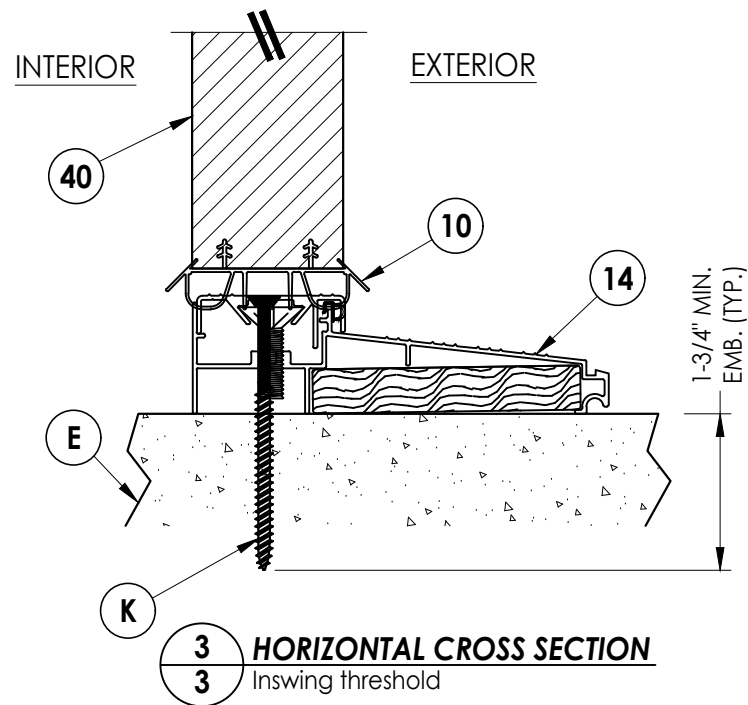


**4**  
**3** **VERTICAL CROSS SECTION**  
ADA Threshold

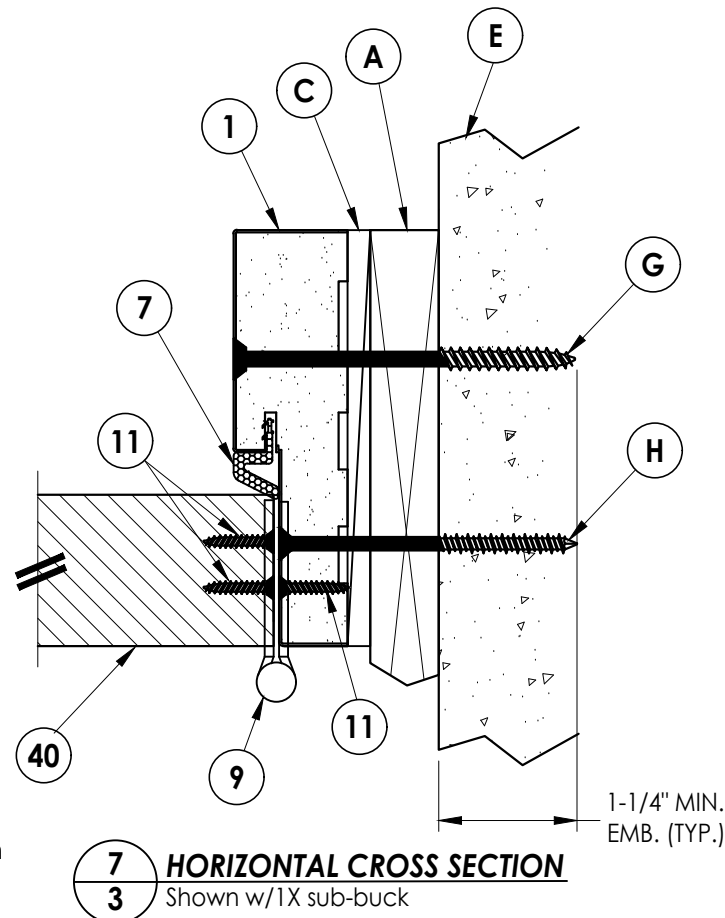


**6**  
**3** **HORIZONTAL CROSS SECTION**  
Inswing shown  
Outswing also approved

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

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: DLP  
ALUMINUM ASTRAGAL

PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
CROSS SECTIONS

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC |
| 2   | 3/04/25 | ADD FLAT PROFILE ASTRAGAL    |
| 1   | 8/09/23 | UPDATE TO 8TH ED. (2023) FBC |
| NO. | DATE    | BY                           |

DATE: 6/07/22

SCALE: N.T.S.

DWG. BY: LFS

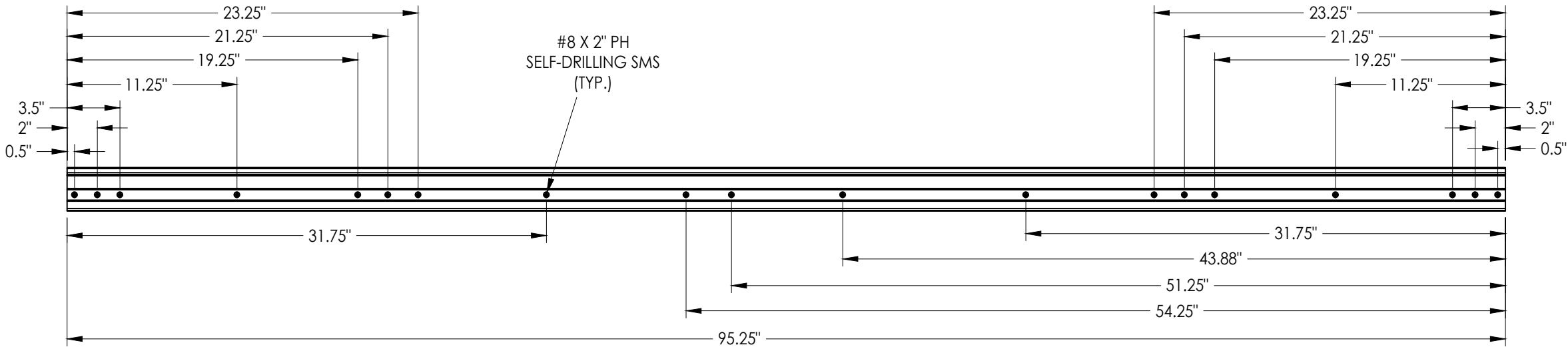
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DRAWING NO.: FL-14805.5

SHEET 3 OF 6

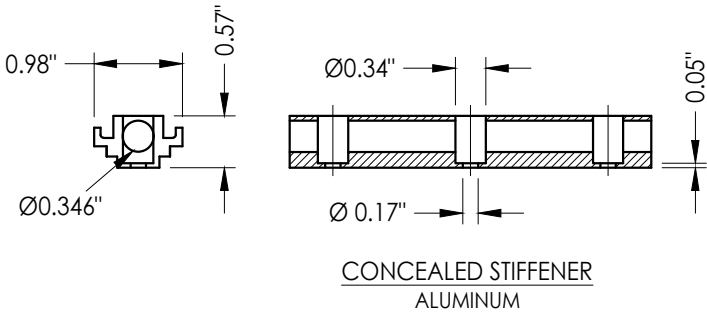
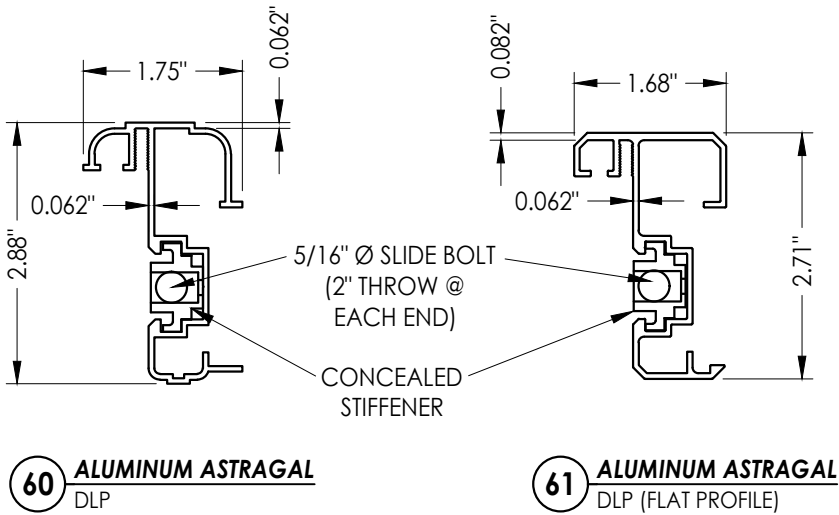
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BOTTOM

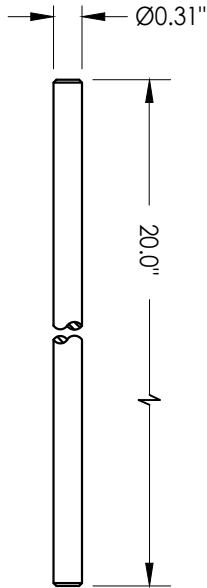


TOP

ASTRAGAL SCREW LOCATIONS



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



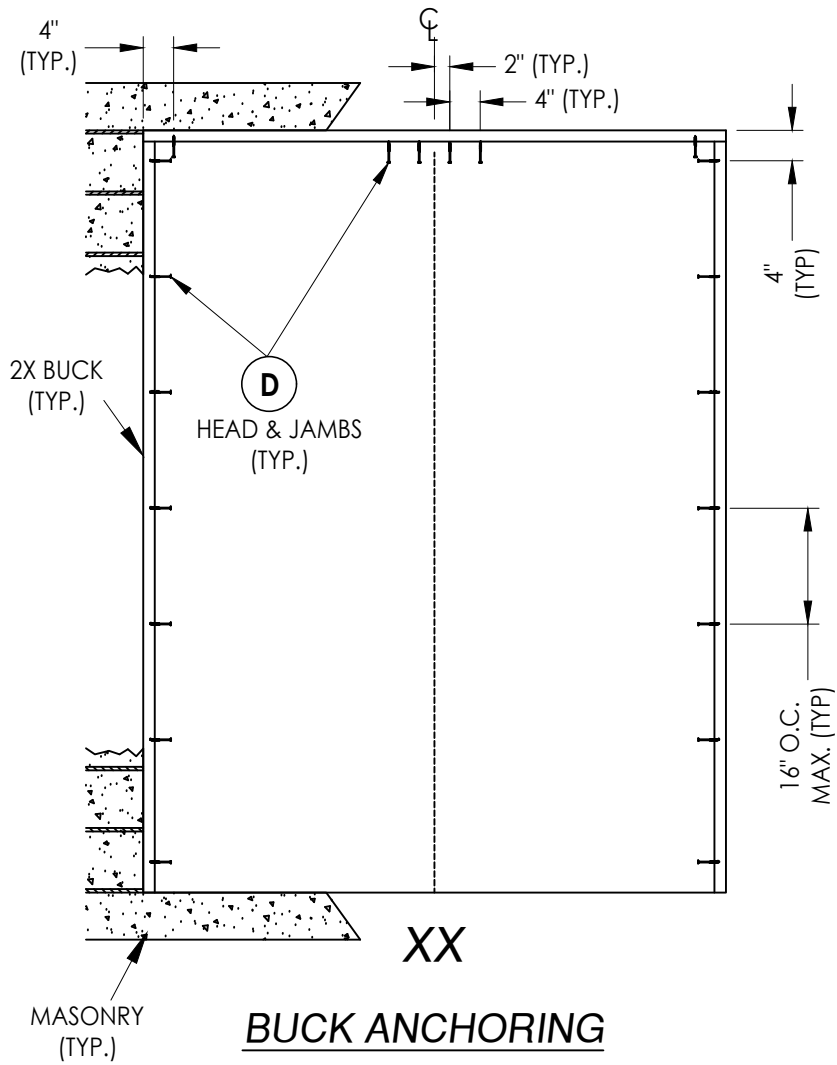
ALUMINUM SLIDE BOLT ACTUATOR  
(TYP. @ TOP & BOTTOM)

|                         |  |                          |         |                           |     |                              |  |
|-------------------------|--|--------------------------|---------|---------------------------|-----|------------------------------|--|
| PRODUCT:                |  | DLP<br>ALUMINUM ASTRAGAL |         | PART OR ASSEMBLY:         |     | ALUMINUM ASTRAGAL<br>DETAILS |  |
|                         |  |                          |         |                           |     |                              |  |
|                         |  |                          | LFS     |                           |     |                              |  |
|                         |  | 3                        | 7/02/26 | UPDATE TO 9TH ED. (2026)  | FBC |                              |  |
|                         |  | 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-14805.5 |  |                          |         |                           |     |                              |  |
| SHEET 4 OF 6            |  |                          |         |                           |     |                              |  |

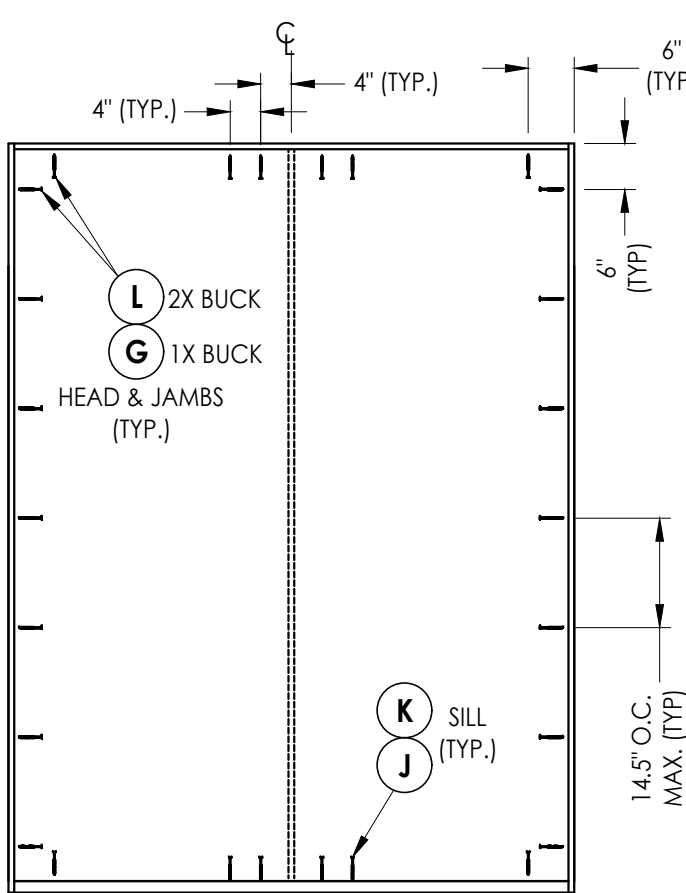
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

*RW* BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197  
FBPE Registry No. 9813

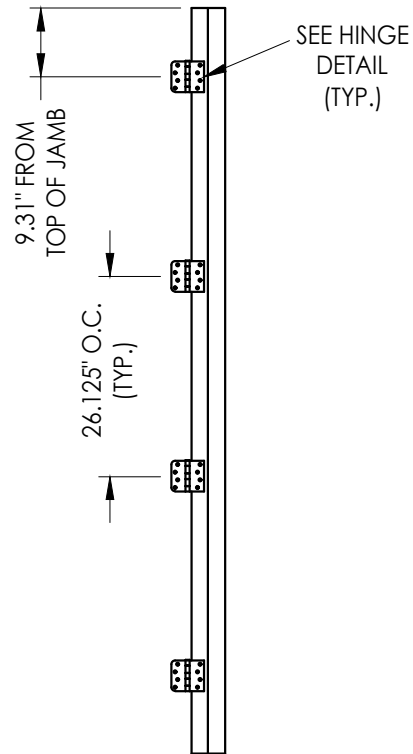
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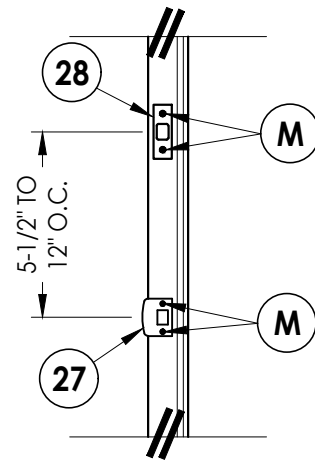
**BUCK ANCHORING**



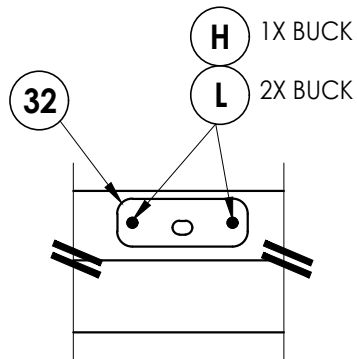
**FRAME ANCHORING**



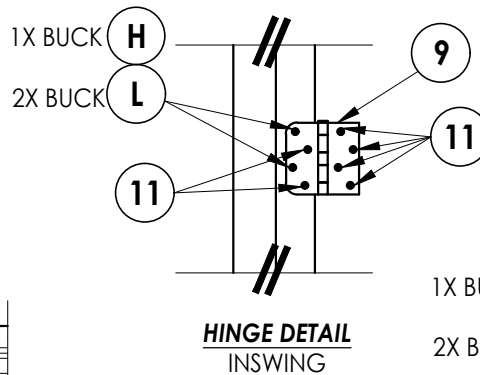
**HINGE JAMB**



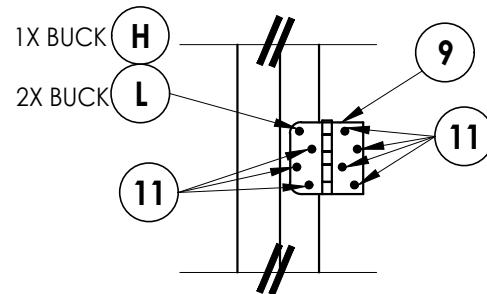
**LATCH & DEAD BOLT DETAIL**



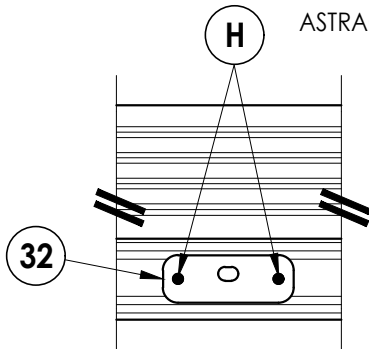
**DETAIL 1**  
ASTRAGAL STRIKE PLATE @ HEAD



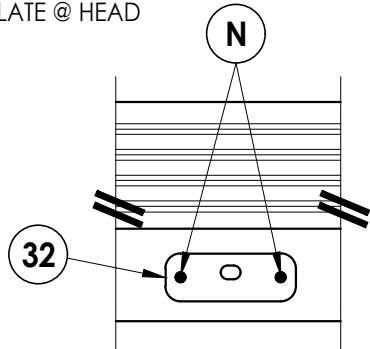
**HINGE DETAIL INSWING**



**HINGE DETAIL OUTSWING**



**DETAIL 2**  
ASTRAGAL STRIKE PLATE @ SILL INSWING



**DETAIL 2**  
ASTRAGAL STRIKE PLATE @ SILL OUTSWING SHOWN/ADA SIMILAR

**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.

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

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:  
DLP  
ALUMINUM ASTRAGAL

PART OR ASSEMBLY:  
BUCK & FRAME ANCHORING

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC |
| 2   | 3/04/25 | ADD FLAT PROFILE ASTRAGAL    |
| 1   | 8/09/23 | UPDATE TO 8TH ED. (2023) FBC |
| NO. | DATE    | BY                           |

DATE: 8/29/11

SCALE: N.T.S.

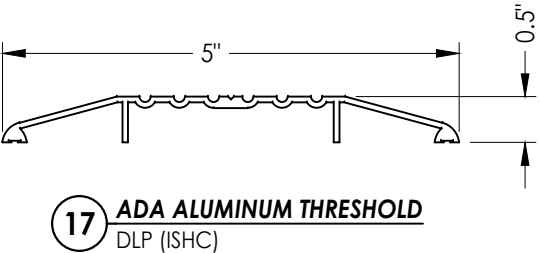
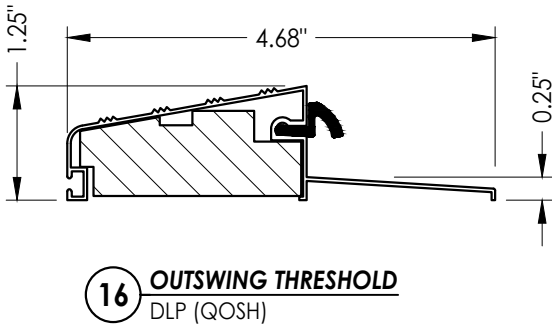
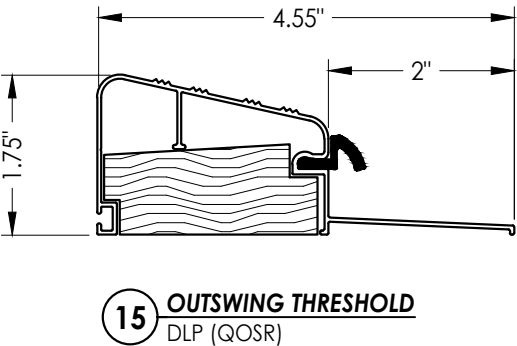
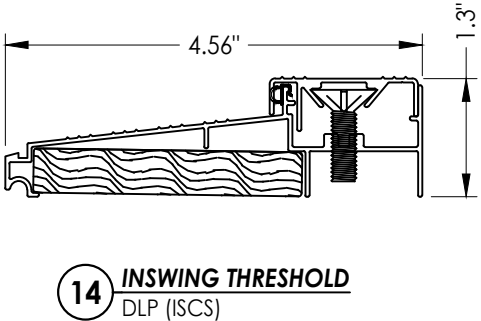
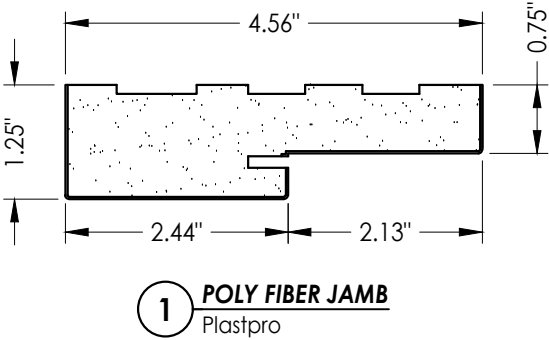
DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-14805.5

SHEET 5 OF 6

| 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     |



|                                                                                                                       |         |                                   |     |     |           |
|-----------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------|-----|-----|-----------|
| DATE: 6/07/22                                                                                                         |         |                                   |     |     |           |
| SCALE: N.T.S.                                                                                                         |         |                                   |     |     |           |
| DWG. BY: LFS                                                                                                          |         |                                   |     |     |           |
| CHK. BY: RW                                                                                                           |         |                                   |     |     |           |
| DRAWING NO.: FL-14805.5                                                                                               |         |                                   |     |     |           |
| SHEET                                                                                                                 | 6       | OF                                | 6   |     |           |
|                                                                                                                       |         |                                   |     |     |           |
|                                                                                                                       |         |                                   |     |     |           |
|                                                                                                                       |         |                                   |     |     |           |
| 3                                                                                                                     | 7/02/26 | UPDATE TO 9TH ED. (2026)          | FBC | LFS |           |
| 2                                                                                                                     | 3/04/25 | ADD FLAT PROFILE ASTRAGAL         |     | LFS |           |
| 1                                                                                                                     | 8/09/23 | UPDATE TO 8TH ED. (2023)          | FBC | LFS |           |
| NO.                                                                                                                   | DATE    |                                   |     | BY  |           |
|                                                                                                                       |         |                                   |     |     | REVISIONS |
| PRODUCT:                                                                                                              |         | DLP<br>ALUMINUM ASTRAGAL          |     |     |           |
| PART OR ASSEMBLY:                                                                                                     |         | BILL OF MATERIALS<br>& COMPONENTS |     |     |           |
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409                                                         |         |                                   |     |     |           |
| RW BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |         |                                   |     |     |           |