

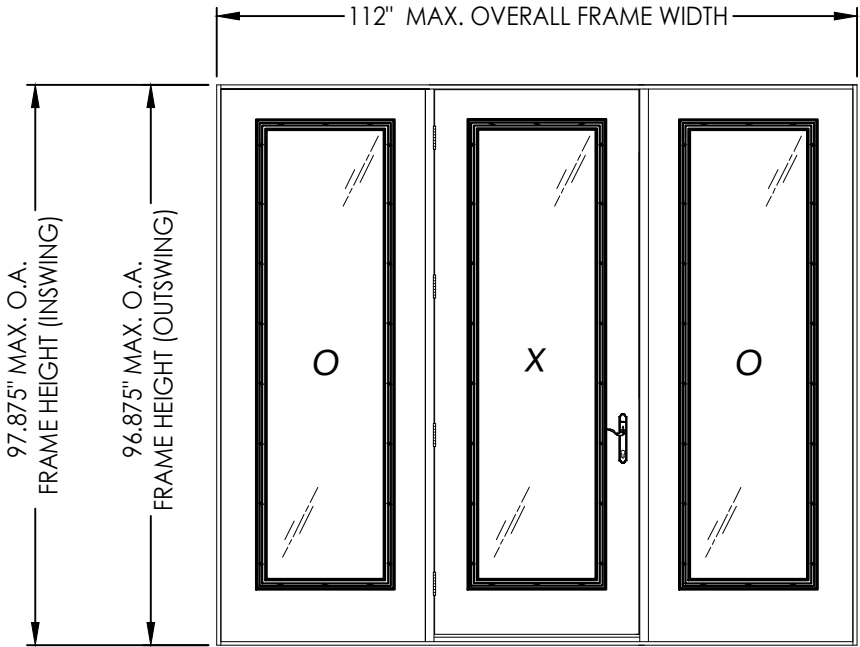
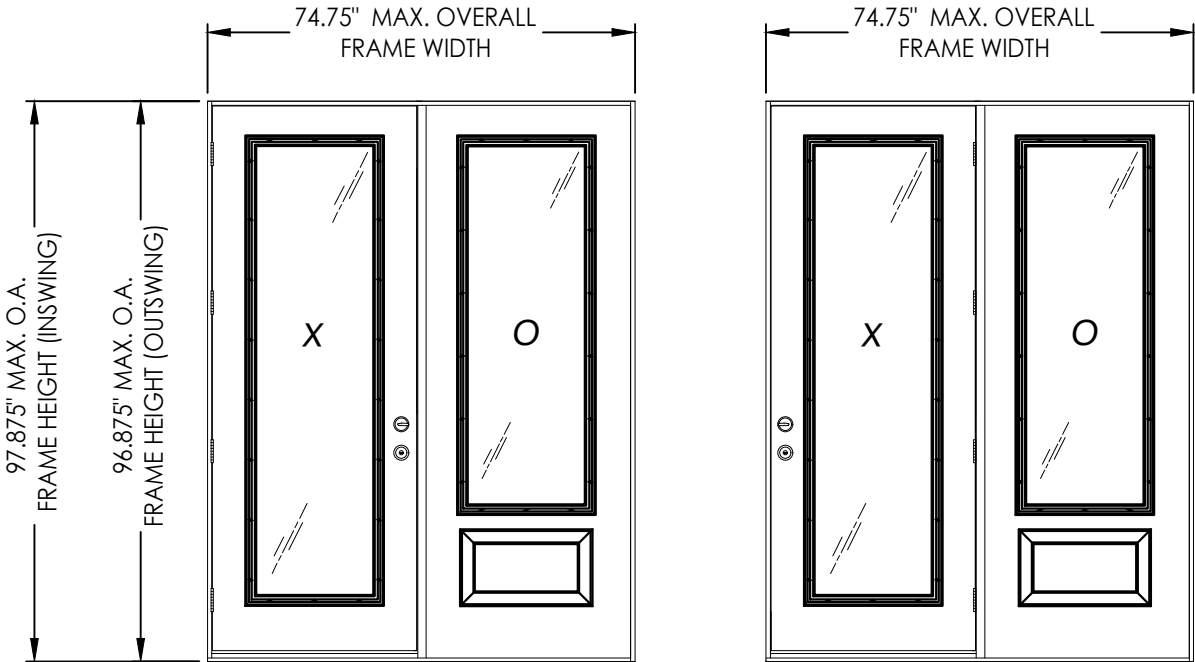
Z:\2023 FBC Drawings\MasterGrain\FL-21852 R10\FL-21852.7.dwg

FIBERGLASS GLAZED  
SINGLE DOOR  
w/ or w/out SIDELITE(S)  
INSWING/OUTSWING  
"IMPACT"

GENERAL NOTES

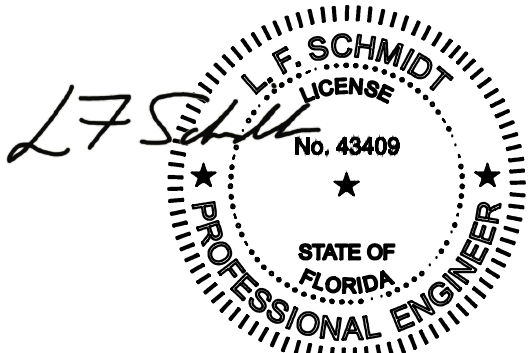
- This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 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 includes Wind Zone 4 as defined in ASTM E1996.
- For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 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 Elevations, Design Pressures & General Notes |
| 2                 | Door Panel Details                                   |
| 3                 | Sidelite Panel Details                               |
| 4                 | Elevations                                           |
| 5                 | Horizontal & Vertical Cross Sections (2X Buck)       |
| 6                 | Horizontal & Vertical Cross Sections (1X Buck)       |
| 7                 | Horizontal Cross Sections                            |
| 8                 | Vertical Cross Sections (Thresholds)                 |
| 9                 | Buck Anchoring                                       |
| 10                | Frame Anchoring                                      |
| 11                | Hardware Details                                     |
| 12                | Bill of Materials & Components                       |



CONTINUOUS HEAD & SILL

| CONFIGURATION | DESIGN PRESSURE (PSF)<br>INSWING |          | DESIGN PRESSURE (PSF)<br>OUTSWING |          |
|---------------|----------------------------------|----------|-----------------------------------|----------|
|               | POSITIVE                         | NEGATIVE | POSITIVE                          | NEGATIVE |
| XO, OX, OXO   | +50.0                            | -55.0    | +50.0                             | -50.0    |



Digitally signed by Lyndon F Schmidt  
Date: 2026.07.22 17:03:50 -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

MASTERGRAIN  
FIBERGLASS DOOR

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

47/01/26  
UPDATE TO 9TH ED. (2026) FBC LFS

37/01/23  
UPDATE TO 8TH ED. (2023) FBC LFS

27/08/20  
UPDATE TO 7TH ED. (2020) FBC LFS

110/03/17  
UPDATE TO 6TH ED. (2017) FBC JK

NO. DATE

REVISIONS

DATE: 02/09/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:  
FL-21852.7

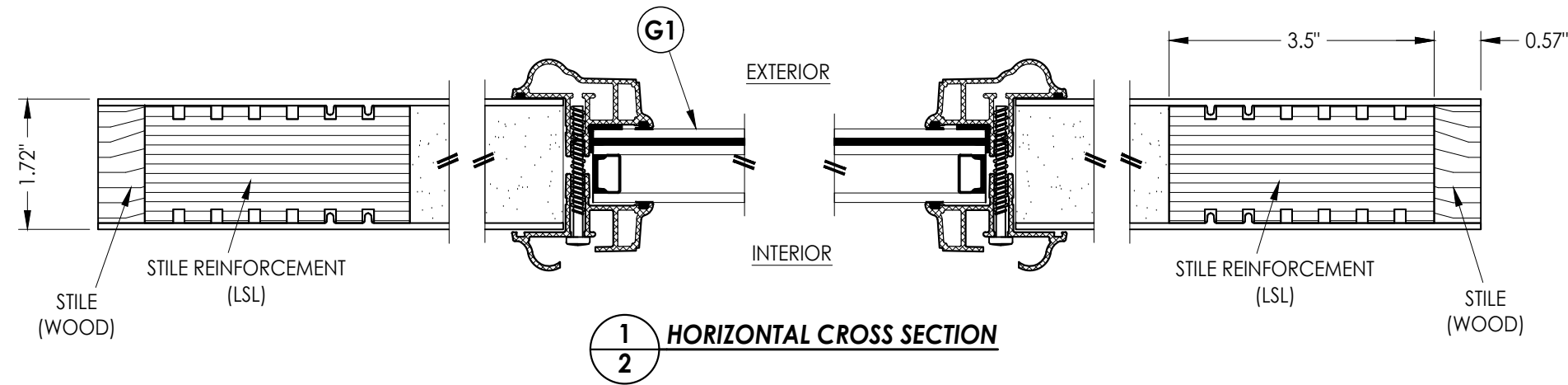
SHEET 1 OF 12

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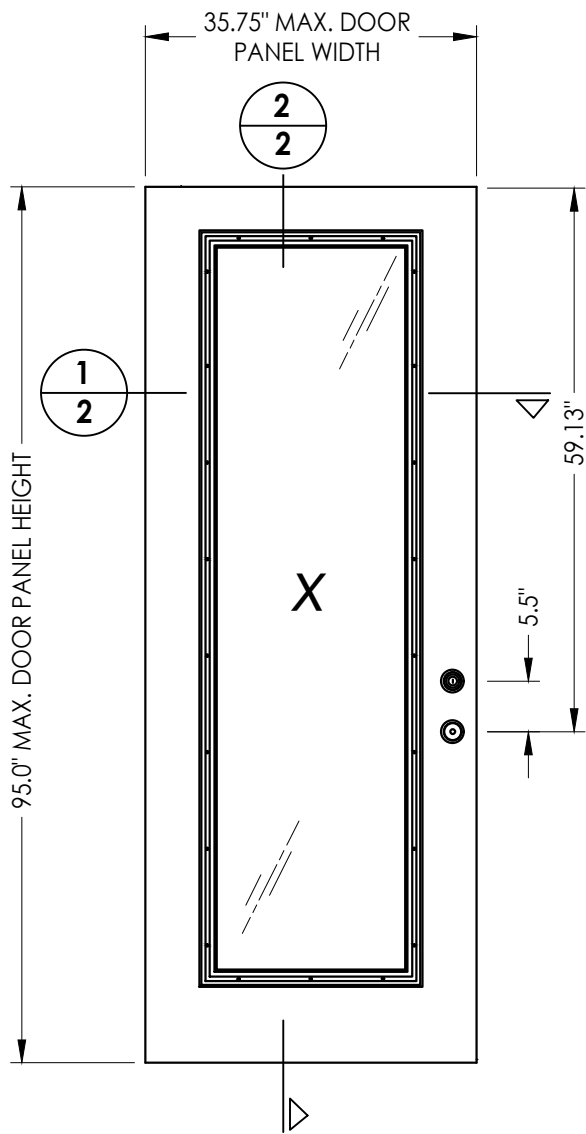
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

RW

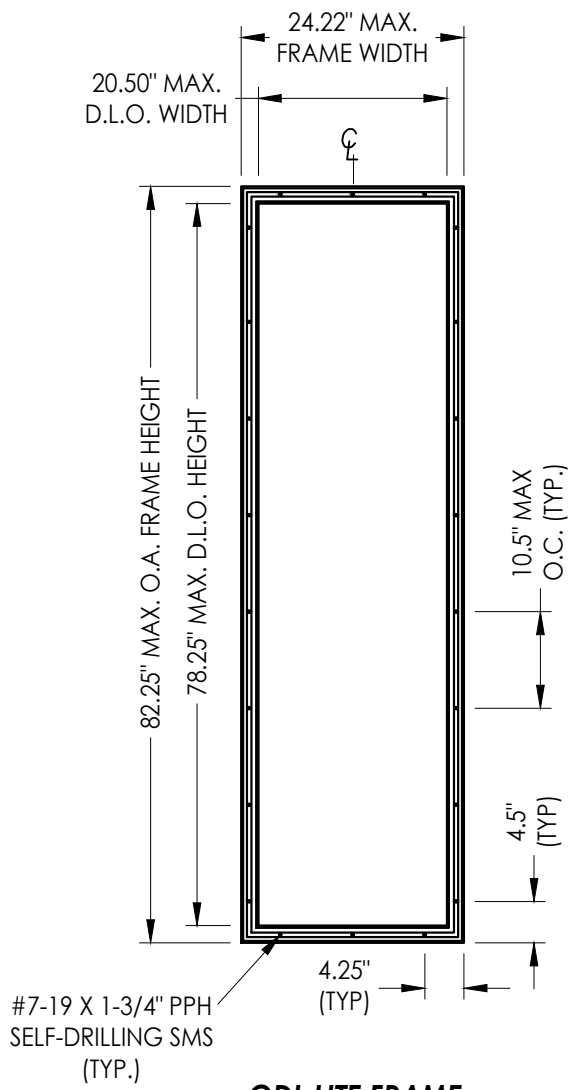
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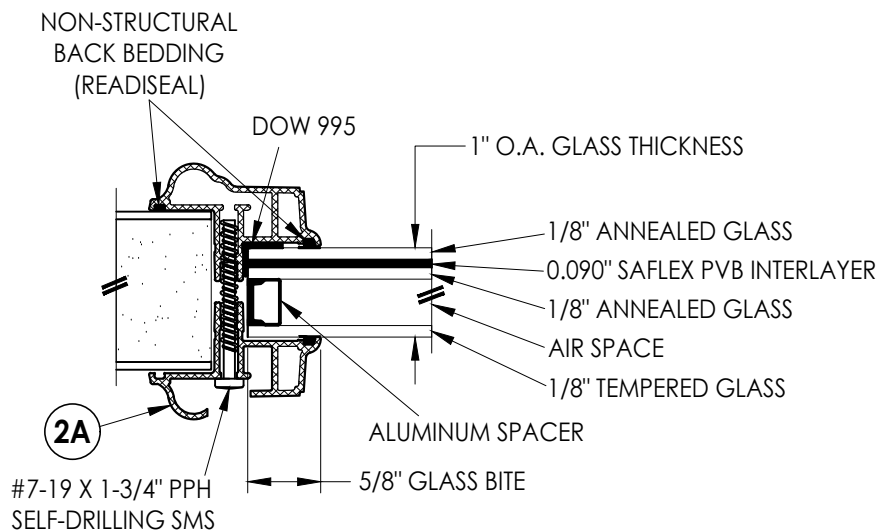
1  
2 **HORIZONTAL CROSS SECTION**



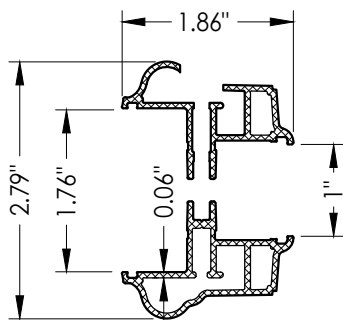
40 **DOOR PANEL**  
Mastergrain



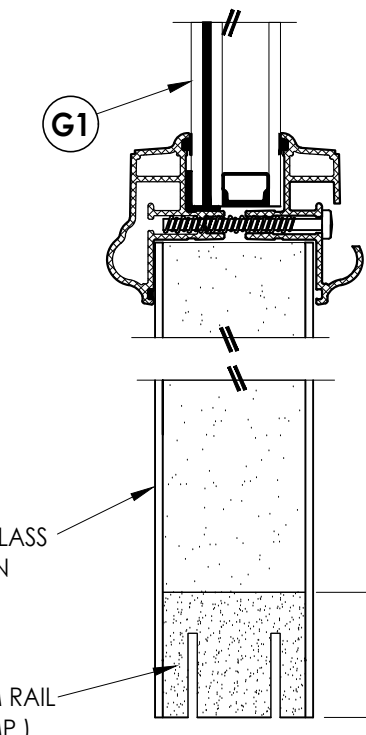
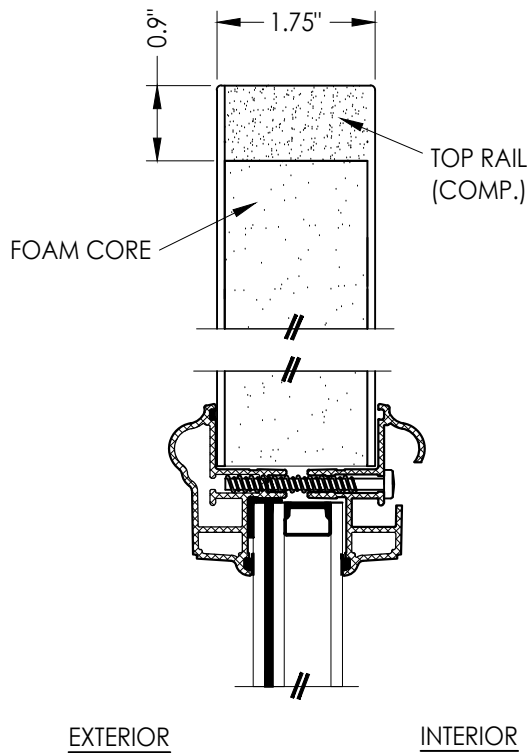
**ODL LITE FRAME**



G1 **GLAZING DETAIL**



2A **ODL LITE FRAME**  
Aluminum



2  
2 **VERTICAL CROSS SECTION**

FIBERGLASS DOOR SKIN: 0.095" MIN. THK.  
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.

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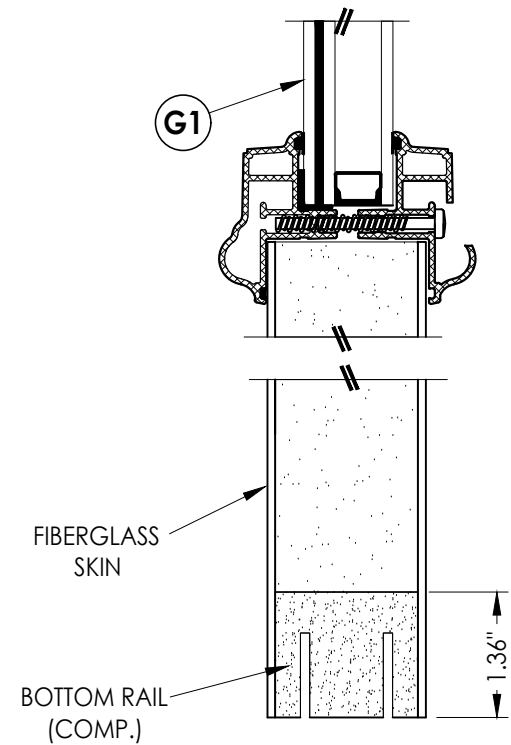
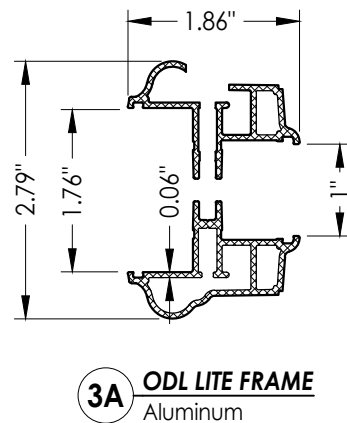
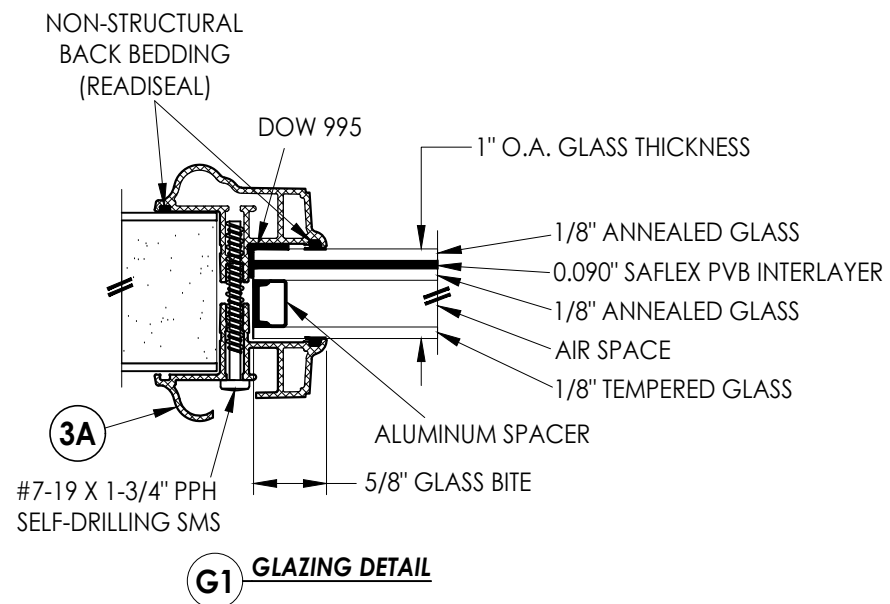
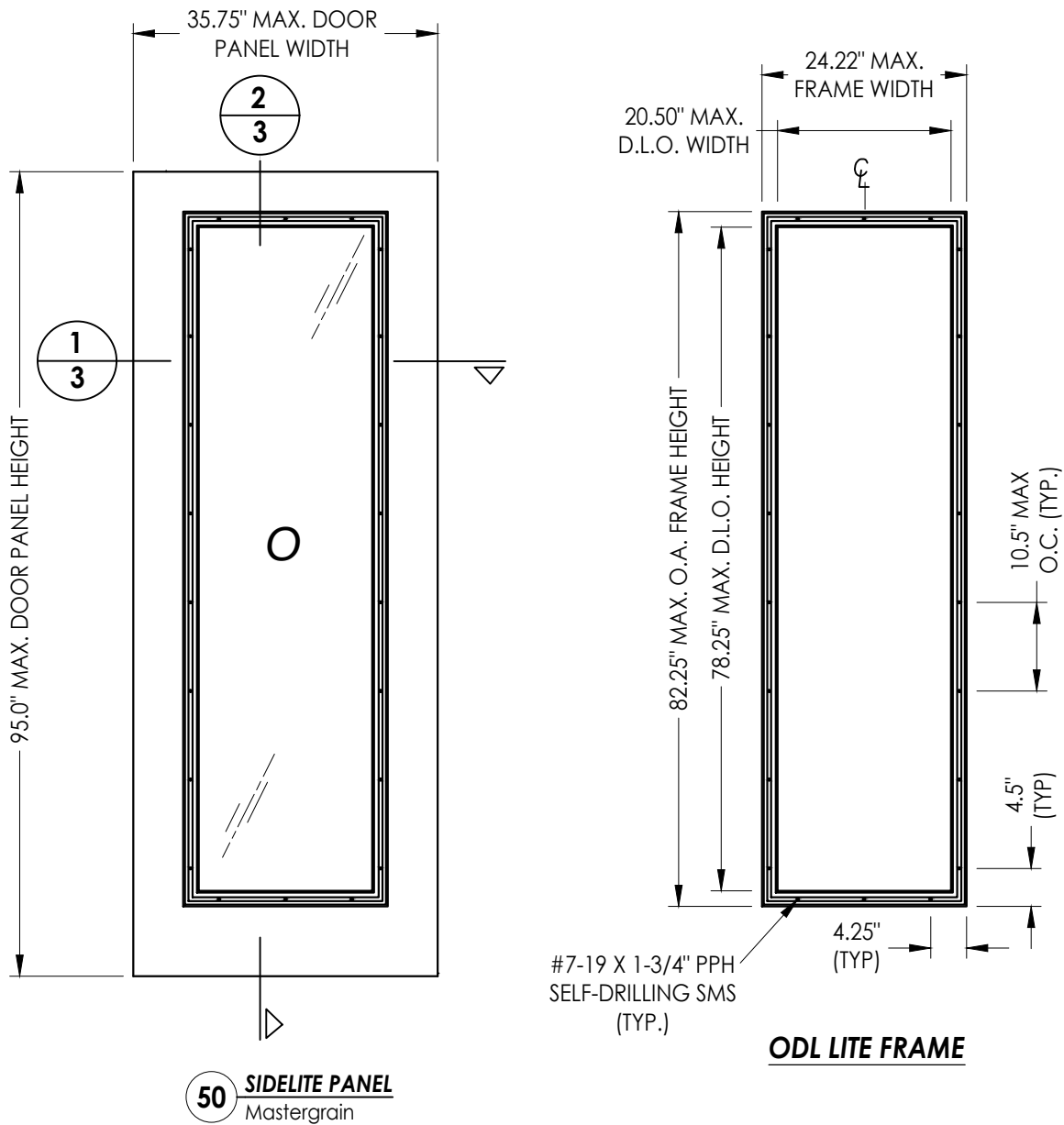
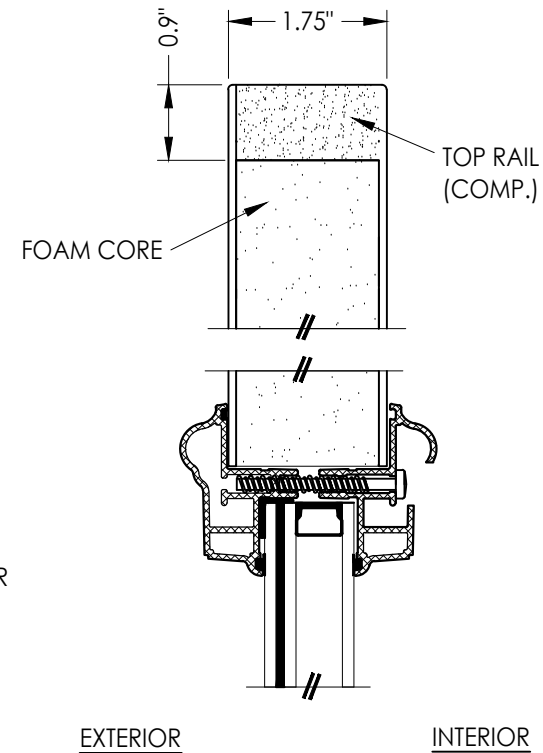
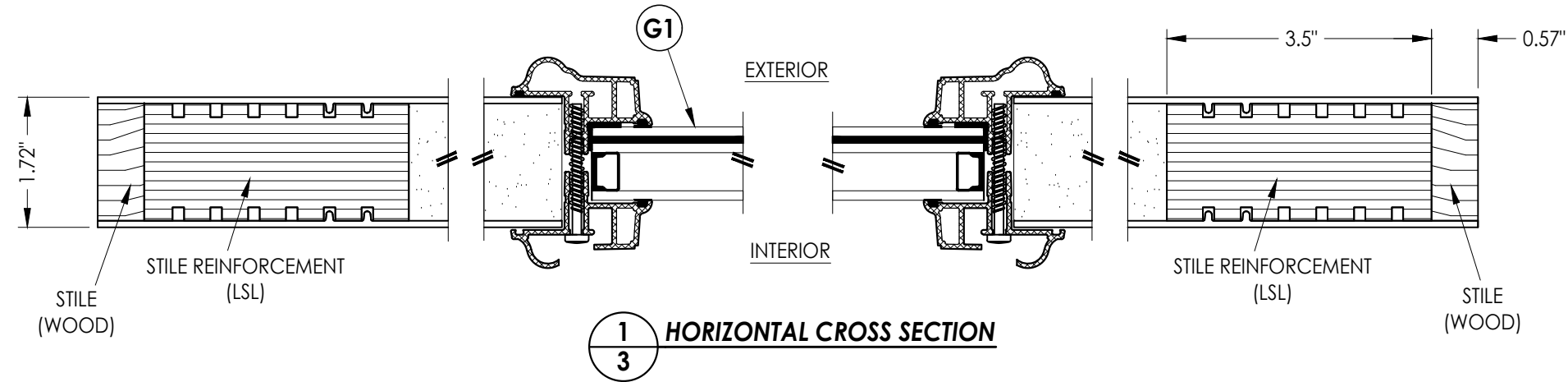
PRODUCT:  
MASTERGRAIN  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
DOOR PANEL DETAILS

| NO. | DATE     | REVISIONS         |        |     |     |
|-----|----------|-------------------|--------|-----|-----|
|     |          | BY                | JK     | LFS | FBC |
| 4   | 7/01/26  | UPDATE TO 9TH ED. | (2026) | FBC | LFS |
| 3   | 7/01/23  | UPDATE TO 8TH ED. | (2023) | FBC | LFS |
| 2   | 7/08/20  | UPDATE TO 7TH ED. | (2020) | FBC | LFS |
| 1   | 10/03/17 | UPDATE TO 6TH ED. | (2017) | FBC | JK  |

DATE: 02/09/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-21852.7  
SHEET 2 OF 12

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FIBERGLASS SIDELITE SKIN: 0.095" MIN. THK.  
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.

Documents Prepared By:  
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P.E. No. 43409

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PRODUCT: MASTERGRAIN FIBERGLASS DOOR  
PART OR ASSEMBLY: SIDELITE PANEL DETAILS

| NO. | DATE     | REVISIONS                        |
|-----|----------|----------------------------------|
| 4   | 7/01/26  | UPDATE TO 9TH ED. (2026) FBC LFS |
| 3   | 7/01/23  | UPDATE TO 8TH ED. (2023) FBC LFS |
| 2   | 7/08/20  | UPDATE TO 7TH ED. (2020) FBC LFS |
| 1   | 10/03/17 | UPDATE TO 6TH ED. (2017) FBC JK  |

DATE: 02/09/17

SCALE: N.T.S.

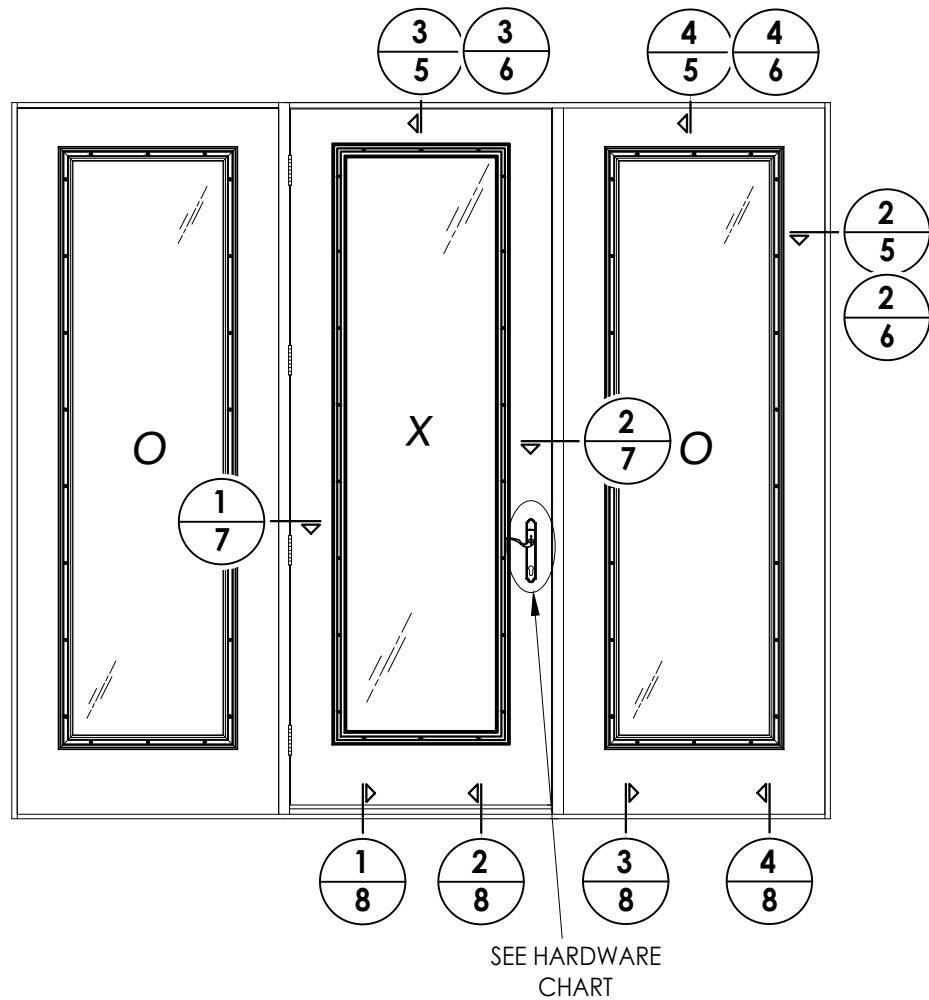
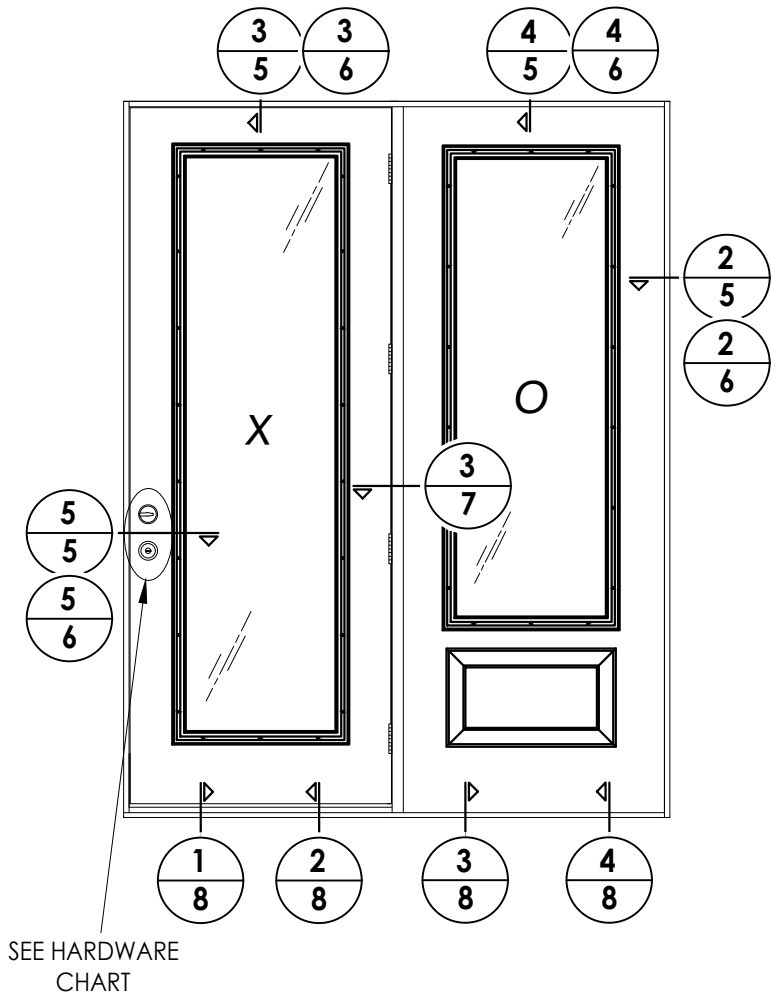
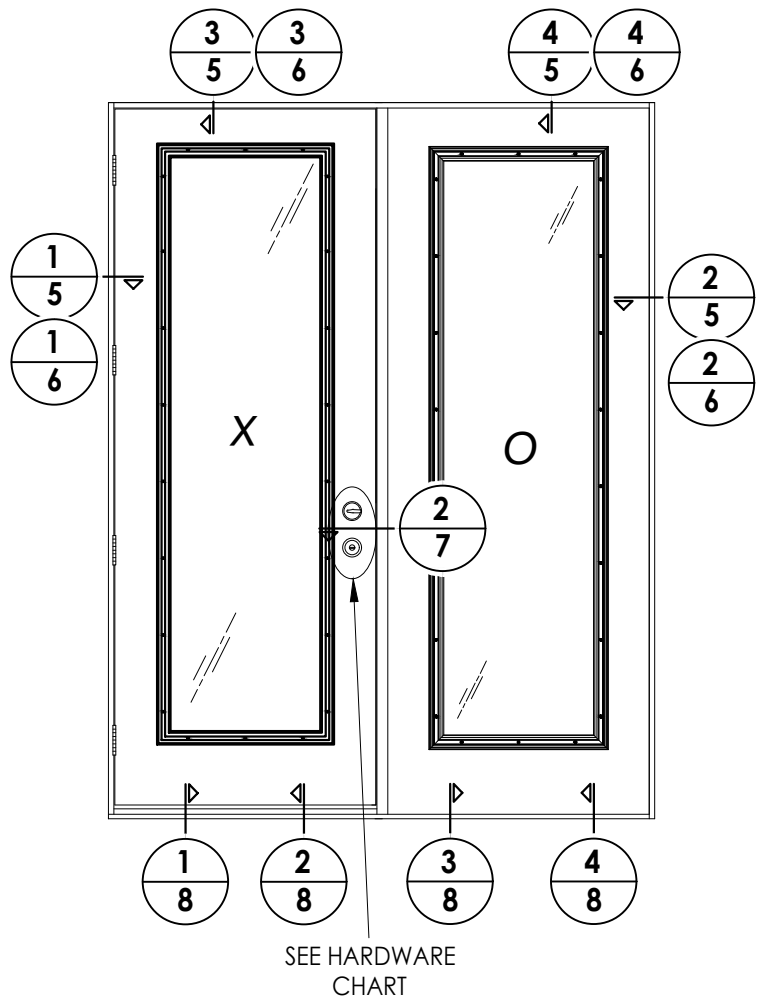
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21852.7

SHEET 3 OF 12

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| HARDWARE TABLE |                                                            |
|----------------|------------------------------------------------------------|
| MANUFACTURER   | MODEL                                                      |
| PAMEX          | KNOB: FLU600<br>DEADBOLT: FD261                            |
| KWIKSET        | KNOB: SIGNATURE SERIES<br>DEADBOLT: SIGNATURE SERIES (980) |
| SCHLAGE        | KNOB: F51<br>DEADBOLT: B60N                                |
| HOPPE          | MULTIPOINT: HLS™ ONE<br>(3 pt. Manual Tongue)              |

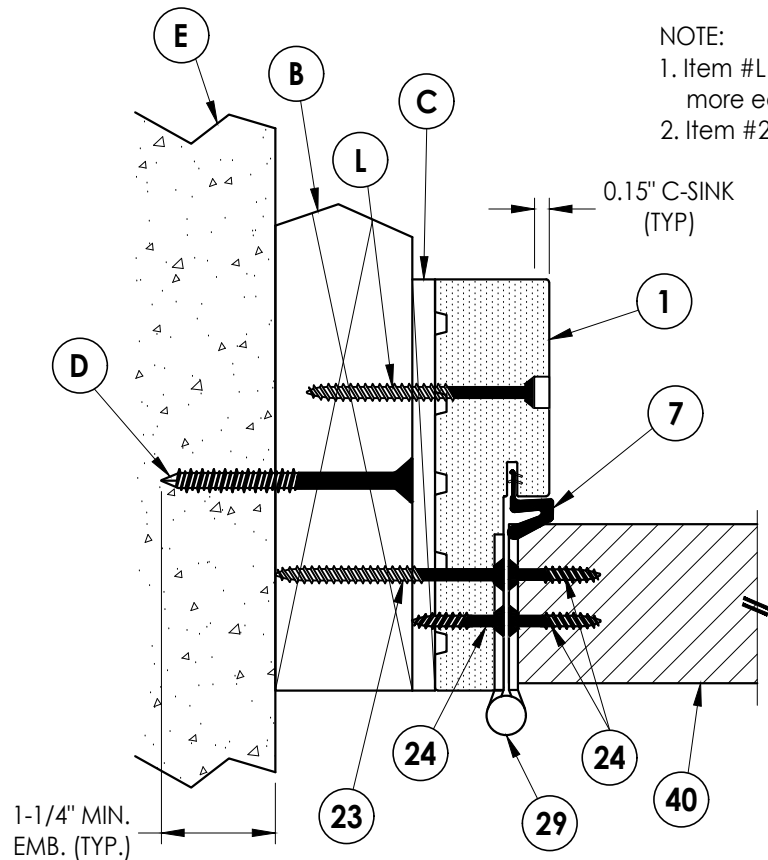
| REVISIONS               |          |
|-------------------------|----------|
| NO.                     | DATE     |
| 4                       | 7/01/26  |
| 3                       | 7/01/23  |
| 2                       | 7/08/20  |
| 1                       | 10/03/17 |
| DATE: 02/09/17          |          |
| SCALE: N.T.S.           |          |
| DWG. BY: JK             |          |
| CHK. BY: LFS            |          |
| DRAWING NO.: FL-21852.7 |          |
| SHEET 4 OF 12           |          |

|                                      |  |
|--------------------------------------|--|
| PRODUCT: MASTERGRAIN FIBERGLASS DOOR |  |
| PART OR ASSEMBLY: ELEVATIONS         |  |

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P.E. No. 43409

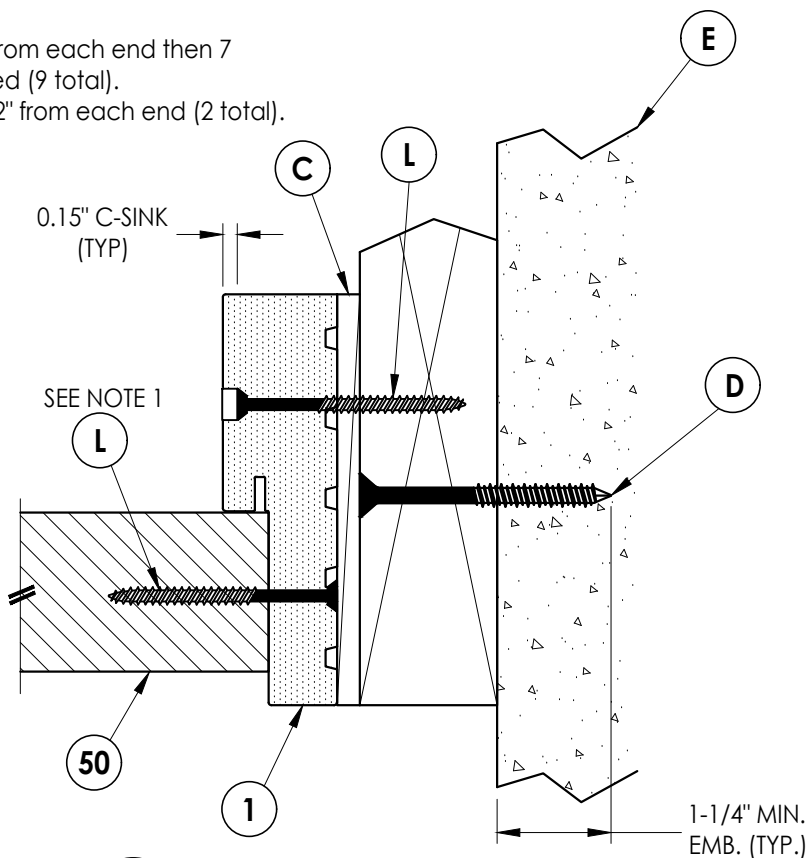
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FBPE Registry No. 9813

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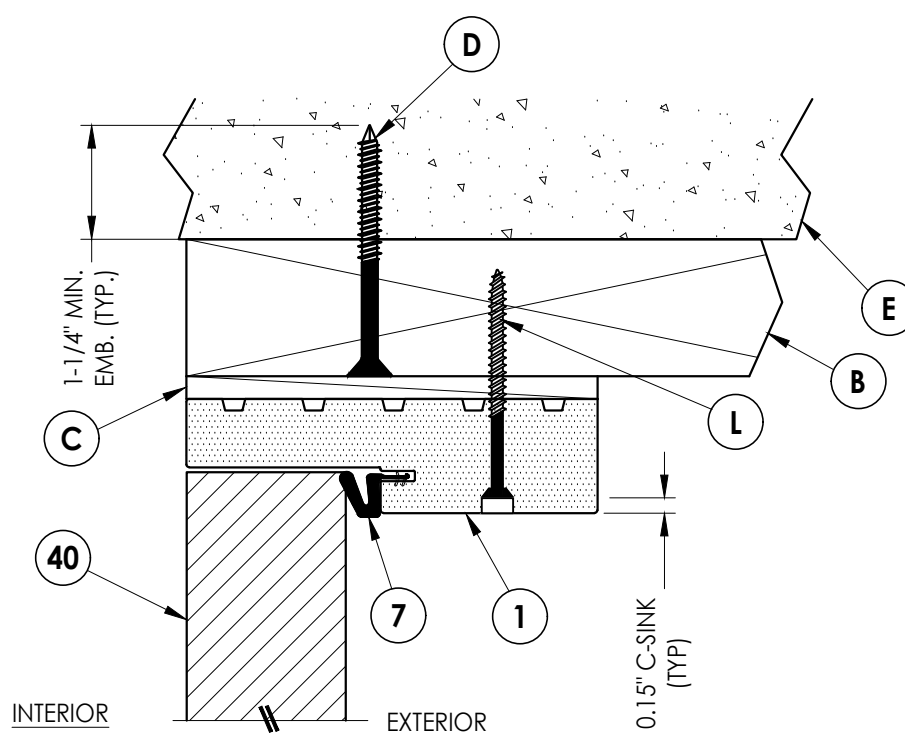


**1**  
**5** **HORIZONTAL CROSS SECTION**  
Shown w/ 2X Buck  
Inswing shown (Outswing similar)

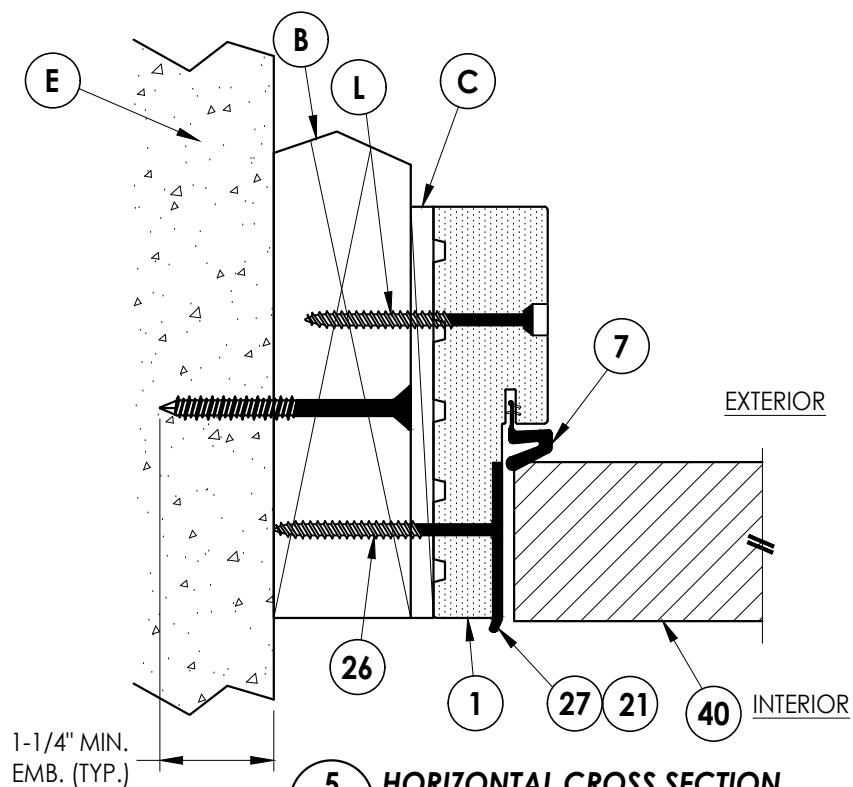
- NOTE:  
1. Item #L located 4" from each end then 7 more equally spaced (9 total).  
2. Item #26 located 12" from each end (2 total).



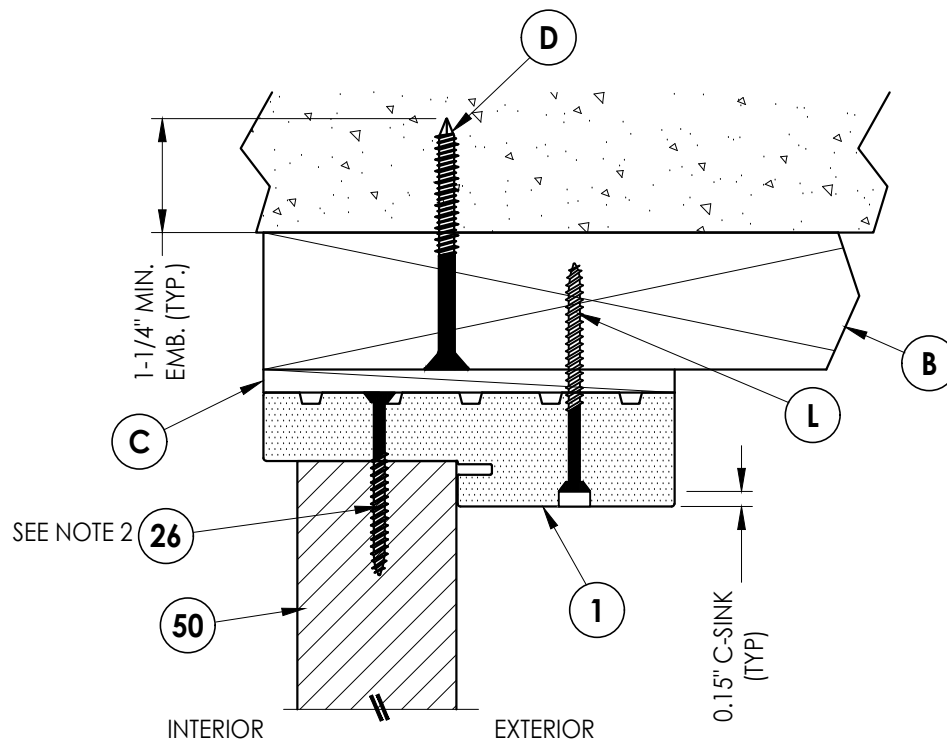
**2**  
**5** **HORIZONTAL CROSS SECTION**  
Shown w/ 2X Buck  
Inswing shown (Outswing similar)



**3**  
**5** **VERTICAL CROSS SECTION**  
Shown w/ 2X Buck  
Inswing shown (Outswing similar)



**5**  
**5** **HORIZONTAL CROSS SECTION**  
Shown w/ 2X Buck  
Inswing shown (Outswing similar)



**4**  
**5** **VERTICAL CROSS SECTION**  
Shown w/ 2X Buck  
Inswing shown (Outswing similar)

Documents Prepared By:  
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P.E. No. 43409

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PRODUCT:  
MASTERGRAIN  
FIBERGLASS DOOR

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

| NO. | DATE     | REVISIONS                        |
|-----|----------|----------------------------------|
| 4   | 7/01/26  | UPDATE TO 9TH ED. (2026) FBC LFS |
| 3   | 7/01/23  | UPDATE TO 8TH ED. (2023) FBC LFS |
| 2   | 7/08/20  | UPDATE TO 7TH ED. (2020) FBC LFS |
| 1   | 10/03/17 | UPDATE TO 6TH ED. (2017) FBC JK  |

DATE: 02/09/17

SCALE: N.T.S.

DWG. BY: JK

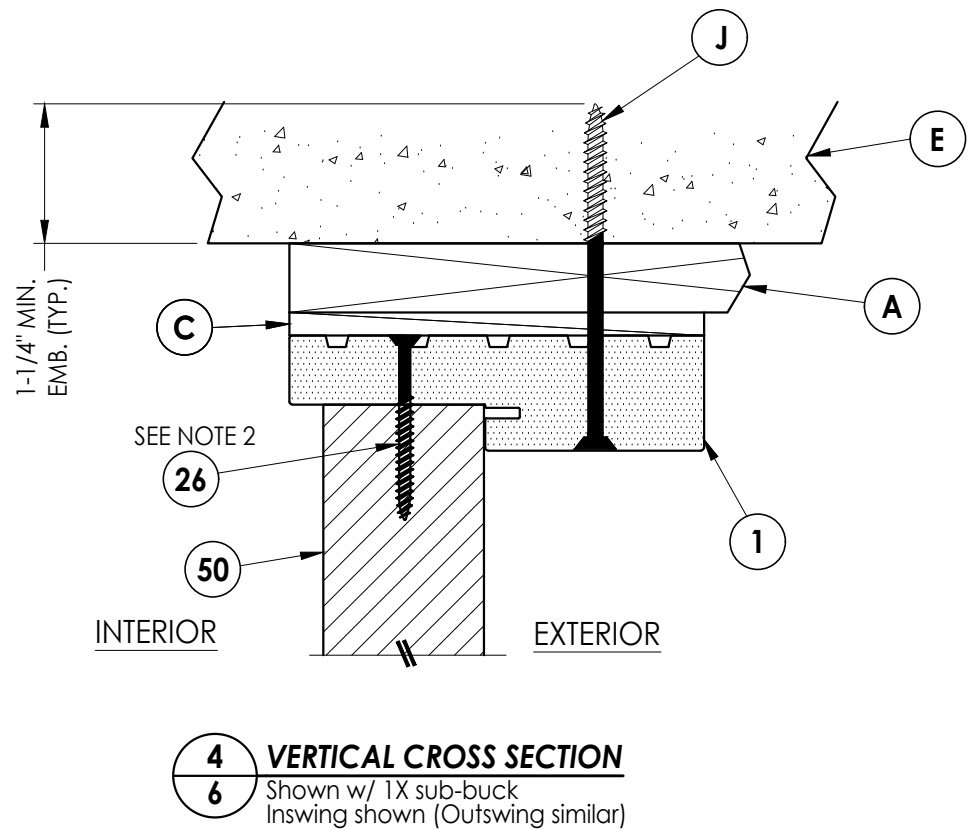
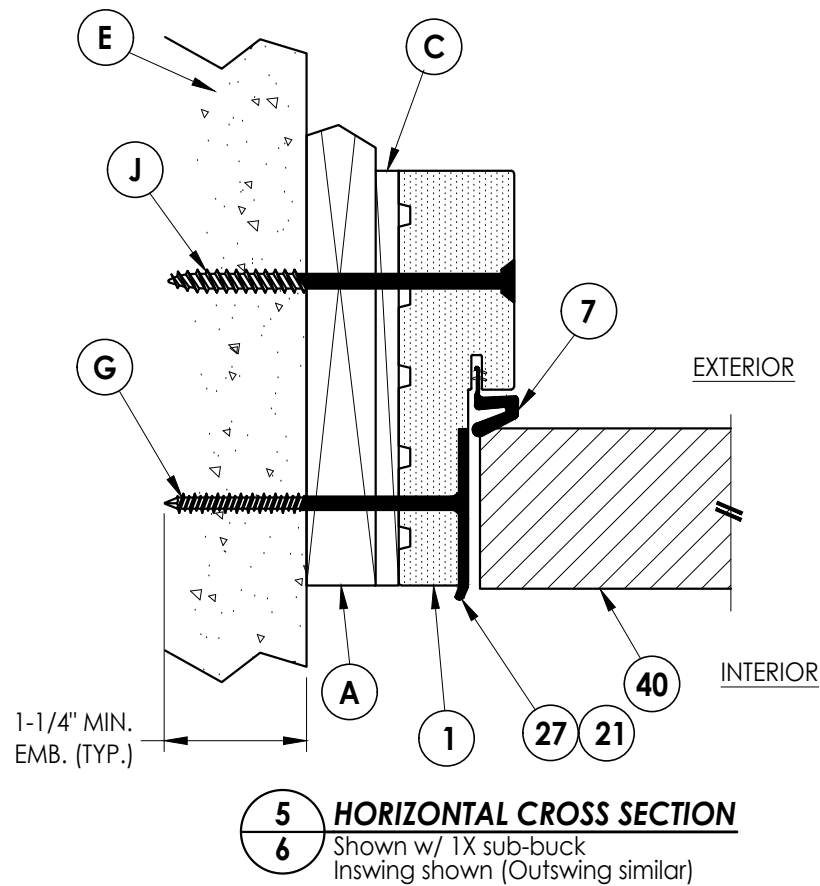
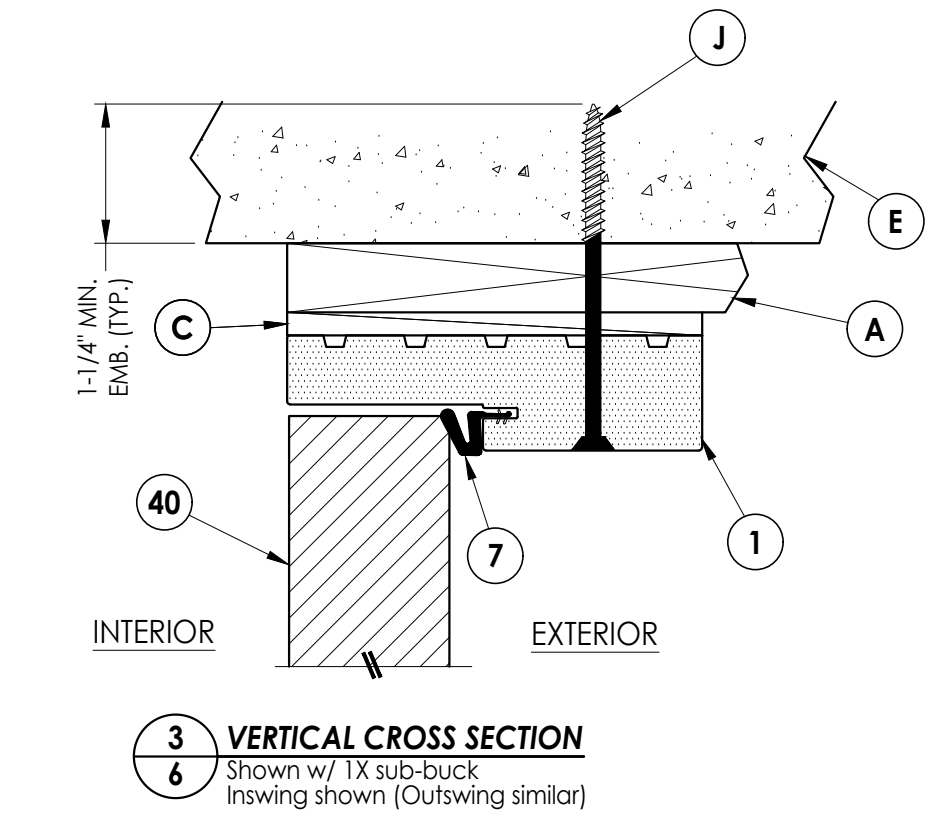
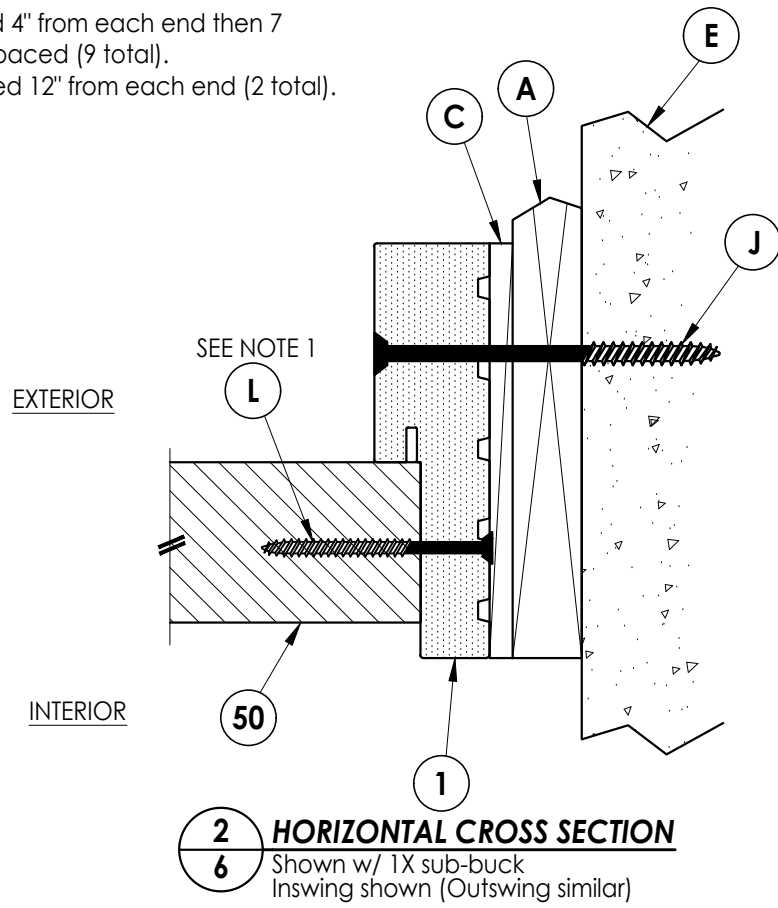
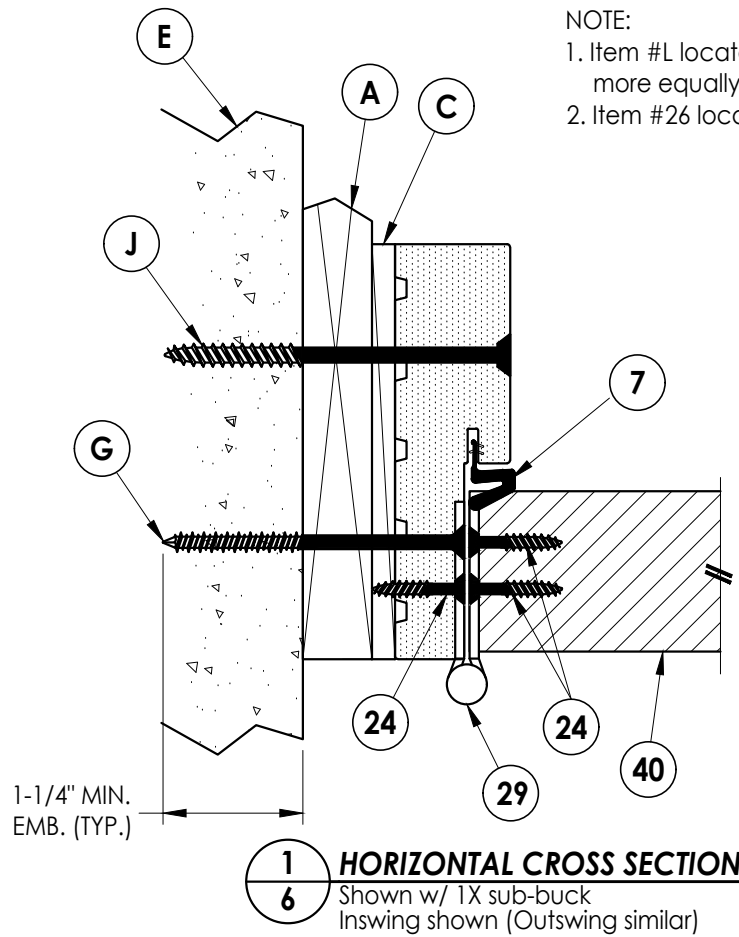
CHK. BY: LFS

DRAWING NO.:

FL-21852.7

SHEET 5 OF 12

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:  
MASTERGRAIN  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
CROSS SECTIONS (1X BUCK)

| NO. | DATE     | REVISIONS                        |
|-----|----------|----------------------------------|
| 4   | 7/01/26  | UPDATE TO 9TH ED. (2026) FBC LFS |
| 3   | 7/01/23  | UPDATE TO 8TH ED. (2023) FBC LFS |
| 2   | 7/08/20  | UPDATE TO 7TH ED. (2020) FBC LFS |
| 1   | 10/03/17 | UPDATE TO 6TH ED. (2017) FBC JK  |
|     |          | BY                               |

DATE: 02/09/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21852.7

SHEET 6 OF 12

1. Item #L located 4" from each end then 7 more equally spaced (9 total).

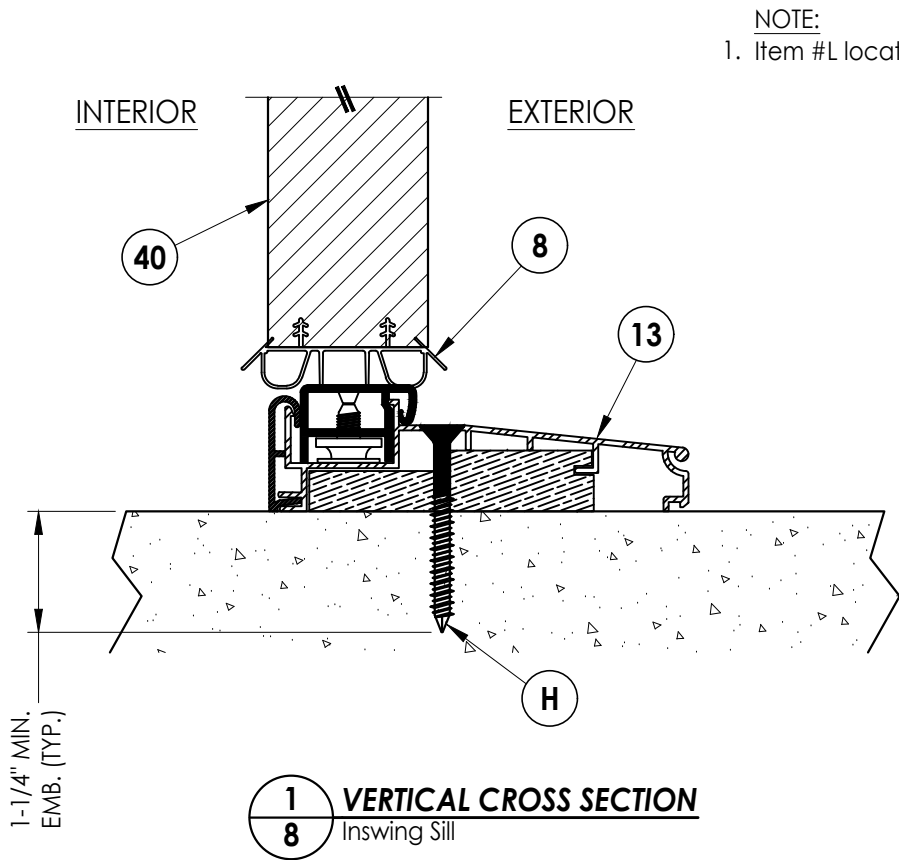


INTERIOR

[illegible]

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P.E. No. 43409

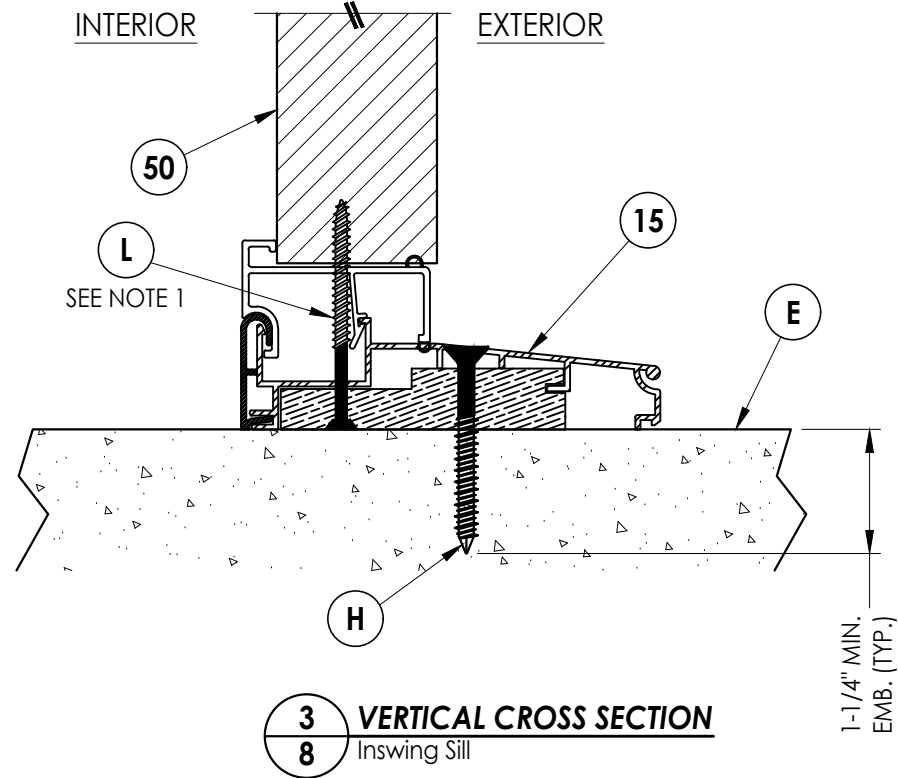
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Phone No.: 813.659.9197  
FBPE Registry No. 9813



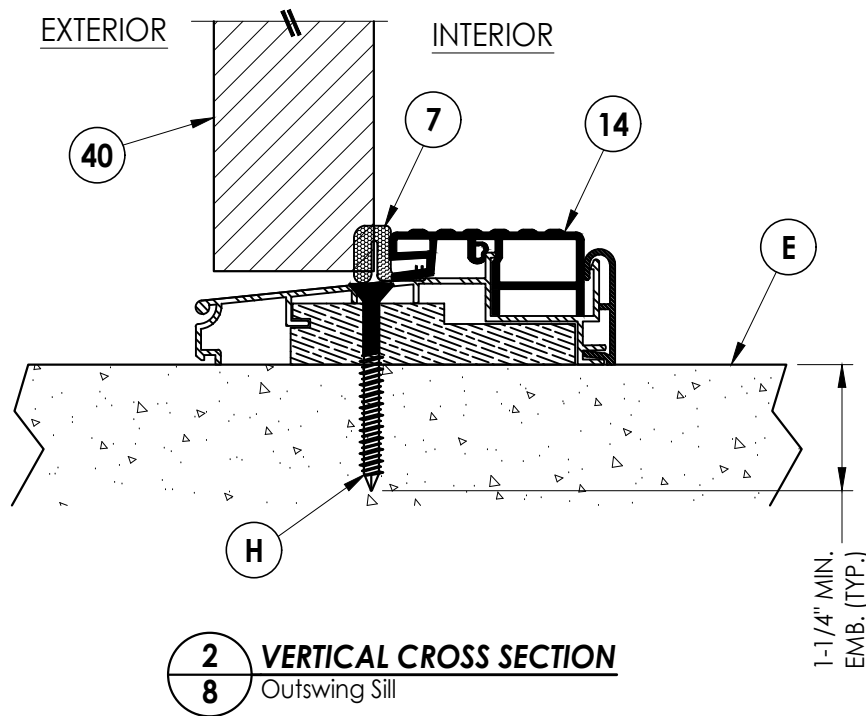
**1** **VERTICAL CROSS SECTION**  
**8** Inswing Sill

NOTE:

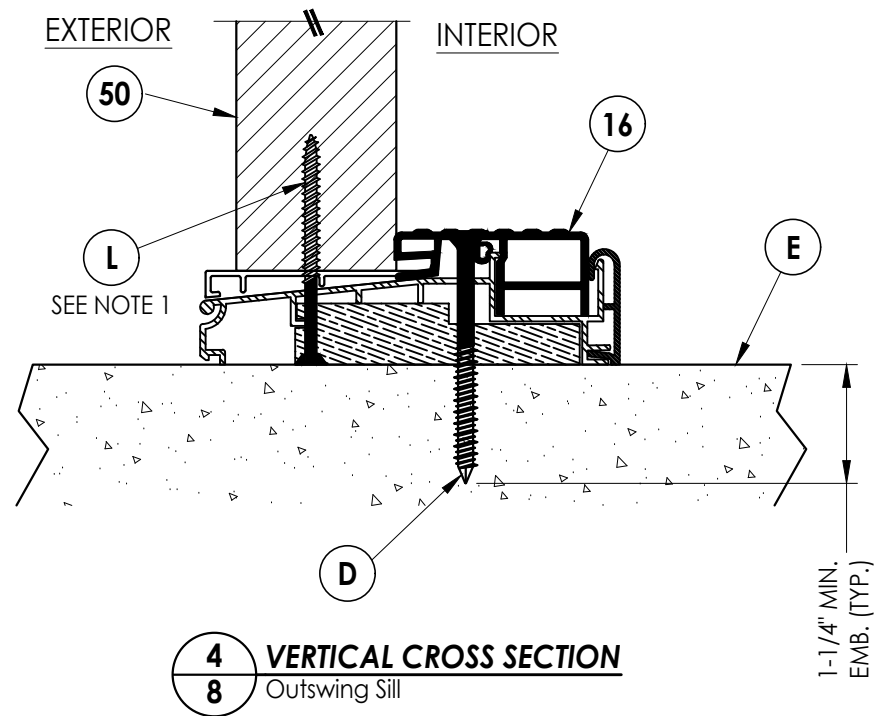
1. Item #L located 12" from each end (2 total).



**3 VERTICAL CROSS SECTION**  
**8** Inswing Sill



**2** **VERTICAL CROSS SECTION**  
**8** Outswing Sill

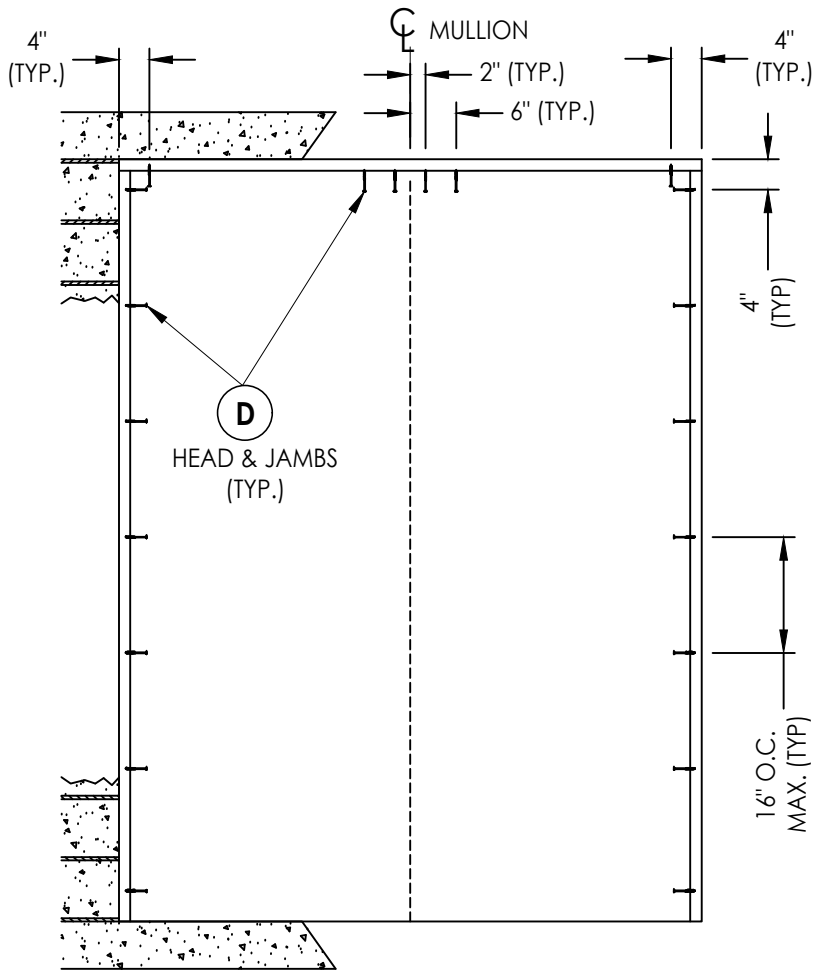


**4 VERTICAL CROSS SECTION**  
**8** Outswing Sill

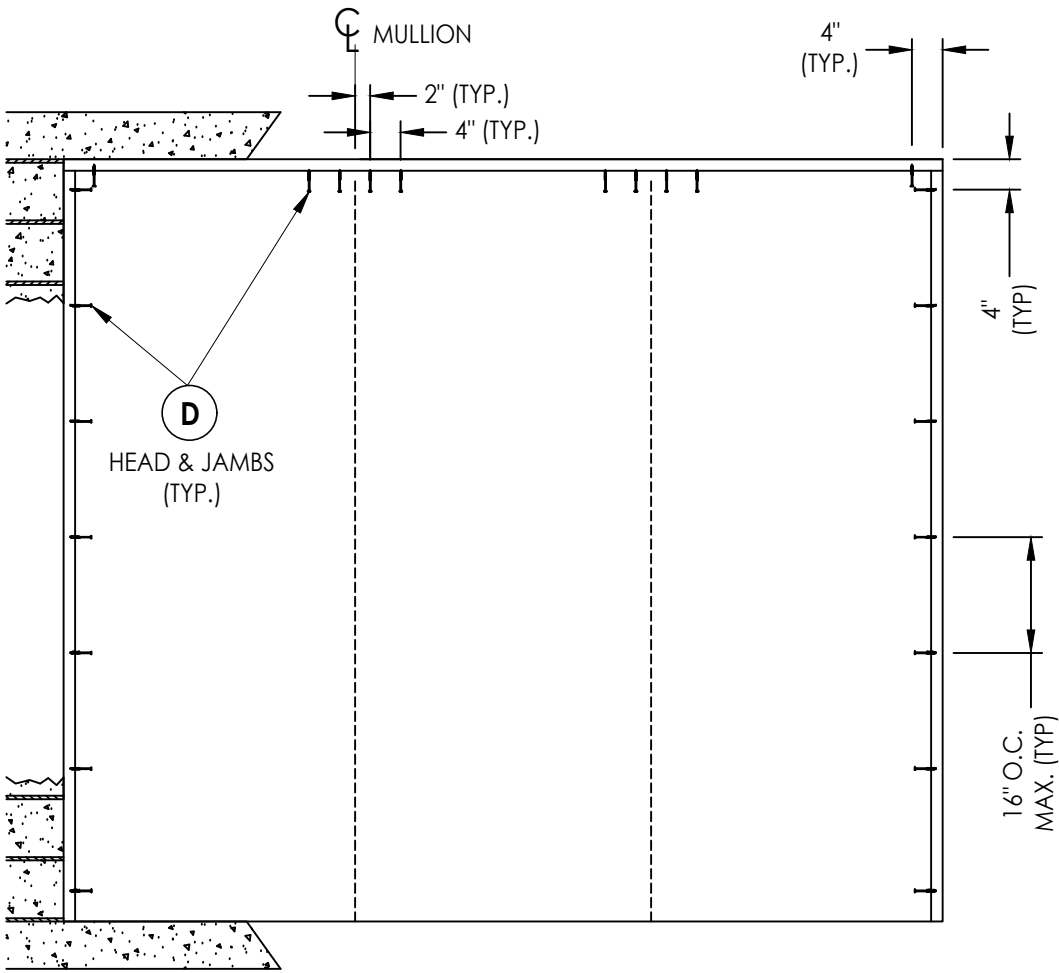
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P.E. No. 43409

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XO



OXO

2X BUCK ANCHORING

DATE: 02/09/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21852.7

SHEET 9 OF 12

PRODUCT:

MASTERGRAIN  
FIBERGLASS DOOR

PART OR ASSEMBLY:

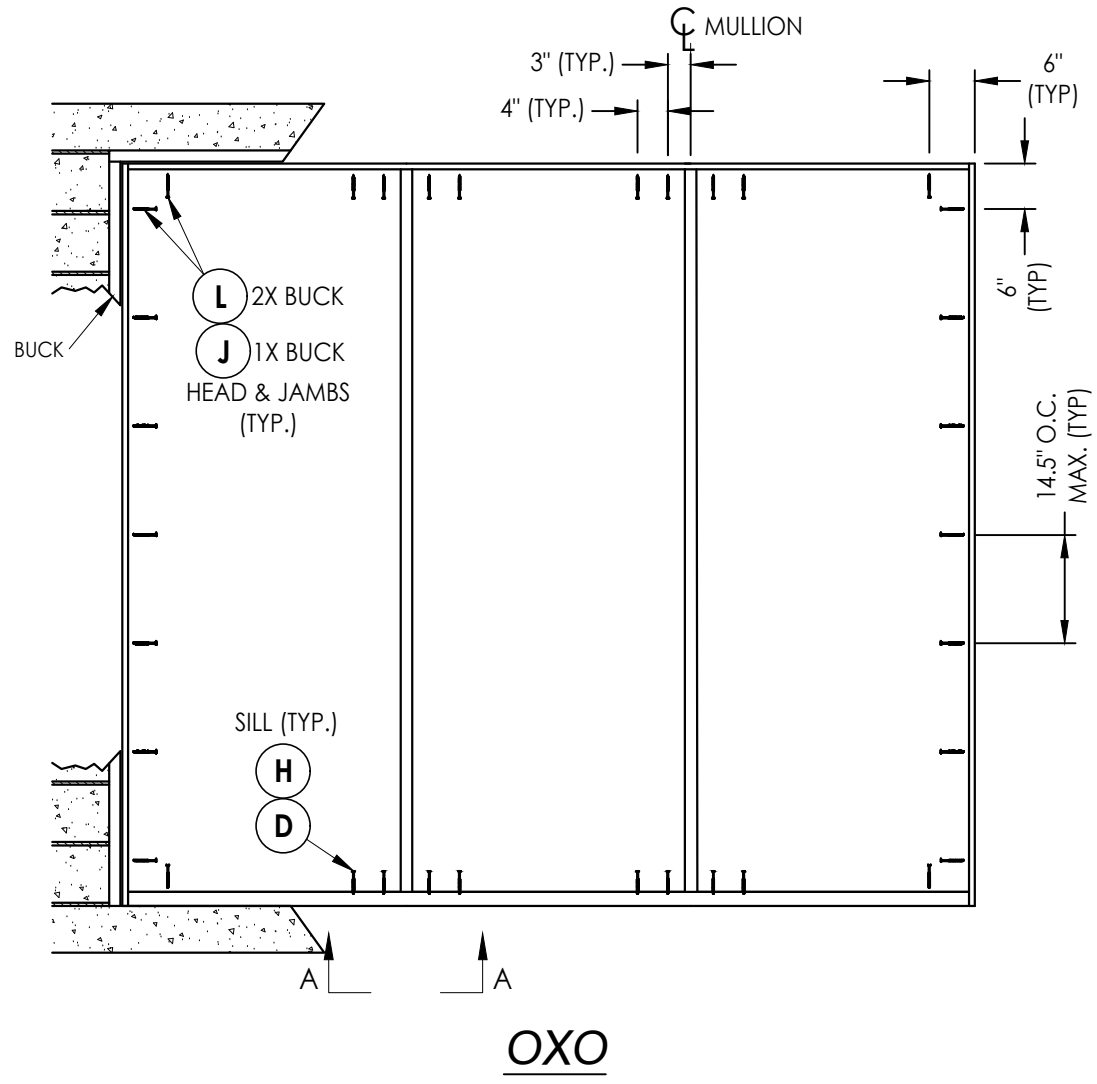
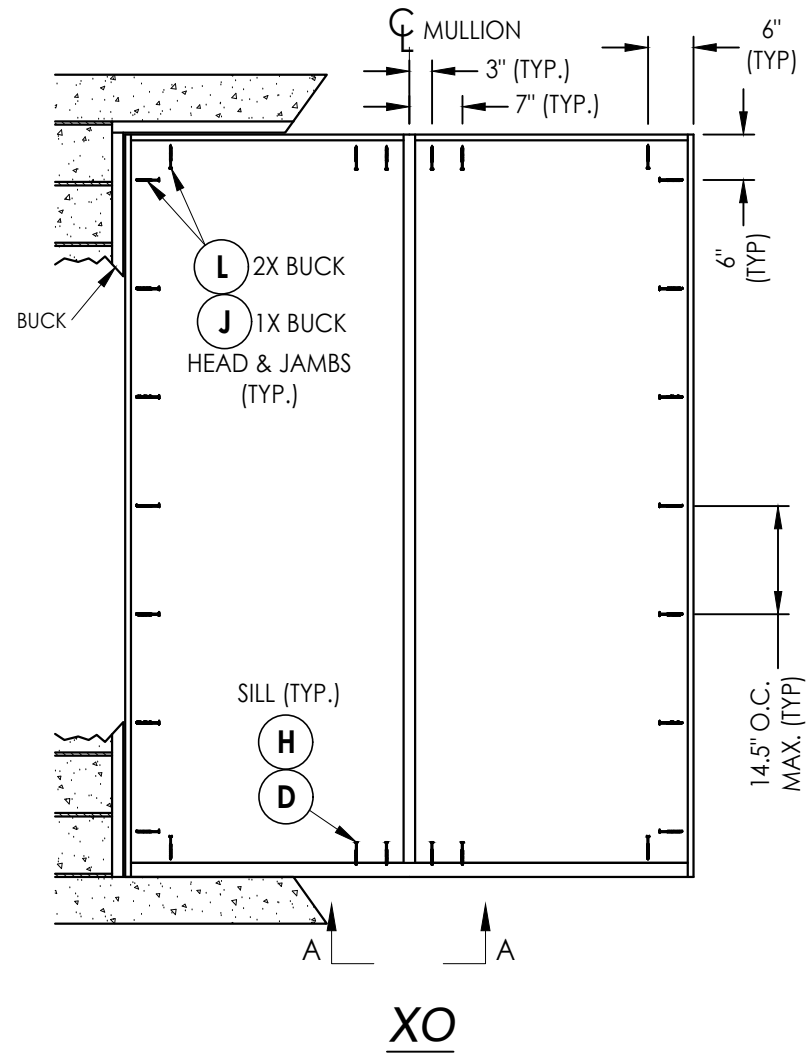
BUCK ANCHORING

Documents Prepared By:

Lyndon F. Schmidt  
P.E. No. 43409

*RW*

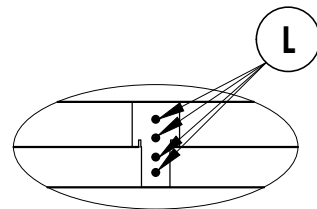
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813



## FRAME ANCHORING

NOTE:

1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD WOOD SCREWS @ HEAD & SILL.



**SECTION A-A**  
(TYP. AT HEAD AND SILL)

|                         |  |  |  |  |  |  |  |
|-------------------------|--|--|--|--|--|--|--|
| DATE: 02/09/17          |  |  |  |  |  |  |  |
| SCALE: N.T.S.           |  |  |  |  |  |  |  |
| DWG. BY: JK             |  |  |  |  |  |  |  |
| CHK. BY: LFS            |  |  |  |  |  |  |  |
| DRAWING NO.: FL-21852.7 |  |  |  |  |  |  |  |
| SHEET 10 OF 12          |  |  |  |  |  |  |  |

Documents Prepared By:  
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P.E. No. 43409

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

The image contains three technical drawings illustrating door strike jamb details for a multipoint lock.

- Top Left Drawing:** A vertical cross-section of a door strike jamb. It shows two strike components. The upper component is labeled "SEE TONGUE STRIKE DETAIL (TYP.)". The lower component is labeled "SEE MULTIPOINT LATCH & DEADBOLT STRIKE DETAIL". A dimension line indicates a distance of 36.5" between the centers of the two strike components. Another dimension line indicates a distance of 27" from the bottom strike component to the bottom edge of the jamb.
- Top Right Drawing:** A detailed view of the tongue strike, labeled "TONGUE STRIKE DETAIL". It shows a cross-section of a door edge with a strike component. Callouts include "1X BUCK" and "G" for the top part, "2X BUCK" and "26" for the middle part, and "20" for the strike component itself.
- Bottom Right Drawing:** A detailed view of the multipoint latch and deadbolt strike, labeled "MULTIPOINT LATCH & DEADBOLT STRIKE DETAIL". It shows a cross-section of a door edge with a strike component. Callouts include "1X BUCK" and "G" for the top part, "2X BUCK" and "26" for the middle part, and "21" for the strike component.

**STRIKE JAMB**  
Multipoint Lock

|                            |          |                   |        |     |           |     |
|----------------------------|----------|-------------------|--------|-----|-----------|-----|
|                            |          |                   |        |     |           |     |
|                            |          |                   |        |     |           |     |
|                            |          |                   |        |     |           |     |
|                            |          |                   |        |     |           | LFS |
| 4                          | 7/01/26  | UPDATE TO 9TH ED. | (2026) | FBC |           | LFS |
| 3                          | 7/01/23  | UPDATE TO 8TH ED. | (2023) | FBC |           | LFS |
| 2                          | 7/08/20  | UPDATE TO 7TH ED. | (2020) | FBC |           | LFS |
| 1                          | 10/03/17 | UPDATE TO 6TH ED. | (2017) | FBC |           | JK  |
| NO.                        | DATE     |                   |        |     |           | BY  |
|                            |          |                   |        |     | REVISIONS |     |
| DATE: 02/09/17             |          |                   |        |     |           |     |
| SCALE: N.T.S.              |          |                   |        |     |           |     |
| DWG. BY: JK                |          |                   |        |     |           |     |
| CHK. BY: LFS               |          |                   |        |     |           |     |
| DRAWING NO.:<br>FL-21852.7 |          |                   |        |     |           |     |
| SHEET 11 OF 12             |          |                   |        |     |           |     |

Documents Prepared By:  
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FBPE Registry No. 9813

Z:\2023 FBC Drawings\MasterGrain\FL-21852 R10\FL-21852.7.dwg

| BILL OF MATERIALS |                                                                                                |           |
|-------------------|------------------------------------------------------------------------------------------------|-----------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL  |
| A                 | 1X BUCK (SG >= 0.42)                                                                           | WOOD      |
| B                 | 2X BUCK (SG >= 0.42)                                                                           | WOOD      |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -         |
| D                 | 1/4" X 2-3/4" PFH ELCO 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                 | 3/16" X 3-1/4" PFH ITW CONCRETE SCREW                                                          | STEEL     |
| H                 | 1/4" X 2-1/4" PFH ELCO OR ITW CONCRETE SCREW                                                   | STEEL     |
| J                 | 1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW                                                   | STEEL     |
| L                 | #10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)                                             | STEEL     |
| 1                 | COMPOSITE JAMB                                                                                 | COMP      |
| 3                 | MULLION                                                                                        | ALUM/COMP |
| 7                 | WEATHERSTRIP                                                                                   | FOAM      |
| 8                 | SWEEP                                                                                          | VINYL     |
| 13                | INSWING ADJUSTABLE THRESHOLD                                                                   | ALUM/COMP |
| 14                | OUTSWING BUMP THRESHOLD                                                                        | ALUM/COMP |
| 15                | INSWING THRESHOLD (w/ SIDELITE ADAPTER)                                                        | ALUM/COMP |
| 16                | OUTSWING THRESHOLD (w/ SIDELITE ADAPTER)                                                       | ALUM/COMP |
| 20                | MULTIPOINT TONGUE STRIKE PLATE                                                                 | STEEL     |
| 21                | MULTIPOINT LATCH & DEADBOLT STRIKE PLATE                                                       | STEEL     |
| 23                | #12 X 2-1/2" PFH WOOD SCREW                                                                    | STEEL     |
| 24                | #12 x 1" PFH WOOD SCREW                                                                        | STEEL     |
| 26                | #10 X 2" PFH WOOD SCREW                                                                        | STEEL     |
| 27                | LATCH STRIKE PLATE                                                                             | STEEL     |
| 28                | DEADBOLT STRIKE PLATE                                                                          | STEEL     |
| 29                | 4.5" X 4.5" HINGE                                                                              | STEEL     |
| 40                | DOOR PANEL                                                                                     | -         |
| 50                | SIDELITE PANEL                                                                                 | -         |

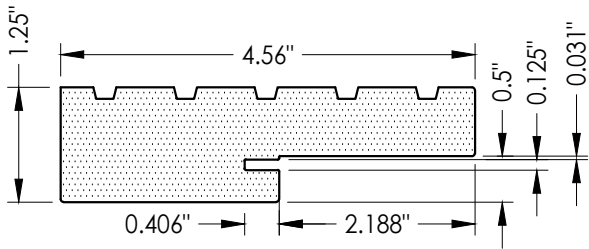
CONCRETE ANCHOR NOTES:

- 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:

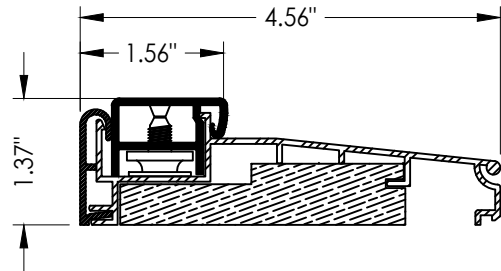
| ANCHOR TYPE     | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|-----------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW TAPCON®     | 1/4"        | 1-1/4"         | 2"                             | 4"                                |
| ELCO ULTRA CON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |
| ITW TAPCON®     | 3/16"       | 1-1/4"         | 3"                             | 1-1/2"                            |

WOOD SCREW INSTALLATION NOTES:

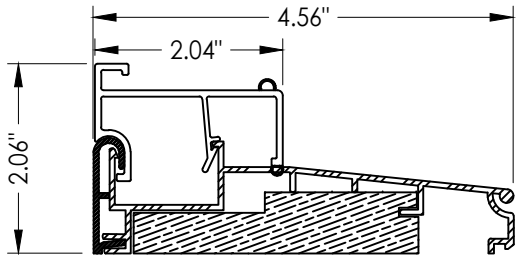
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



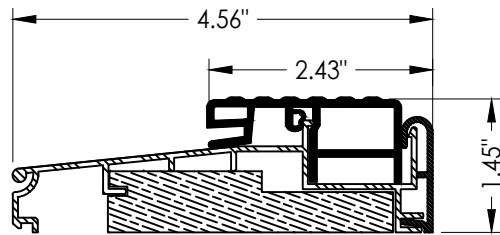
1 COMPOSITE JAMB  
WORLDWIDE



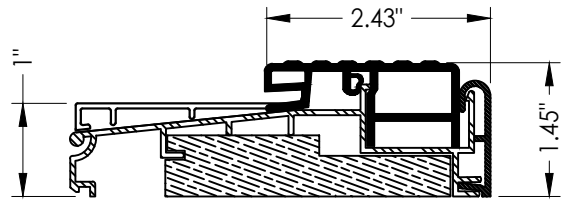
13 INSWING THRESHOLD  
WORLDWIDE



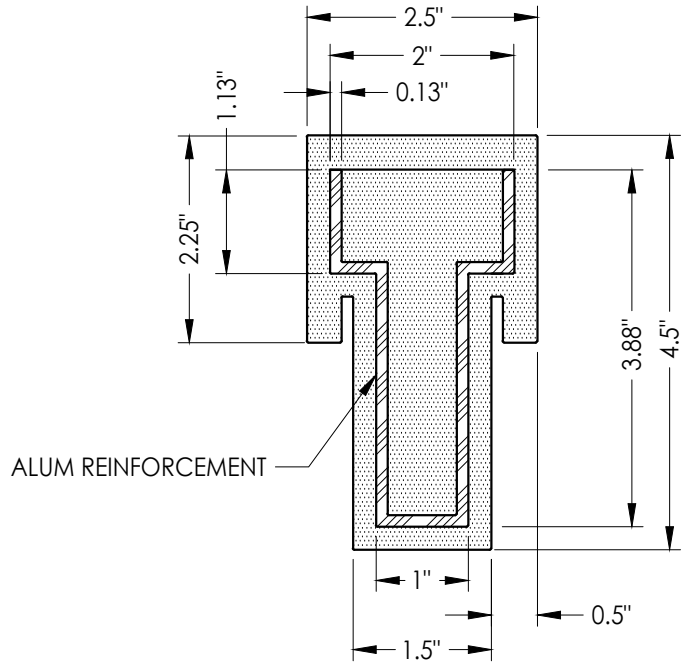
15 INSWING THRESHOLD w/ SIDELITE ADAPTER  
WORLDWIDE



14 OUTSWING THRESHOLD  
WORLDWIDE



16 OUTSWING THRESHOLD w/ SIDELITE ADAPTER  
WORLDWIDE



3 COMPOSITE MULLION  
WORLDWIDE

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PRODUCT:  
MASTERGRAIN  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
BILL OF MATERIALS  
& COMPONENTS

| NO. | DATE     | REVISIONS                    |
|-----|----------|------------------------------|
| 4   | 7/01/26  | UPDATE TO 9TH ED. (2026) FBC |
| 3   | 7/01/23  | UPDATE TO 8TH ED. (2023) FBC |
| 2   | 7/08/20  | UPDATE TO 7TH ED. (2020) FBC |
| 1   | 10/03/17 | UPDATE TO 6TH ED. (2017) FBC |

DATE: 02/09/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21852.7

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