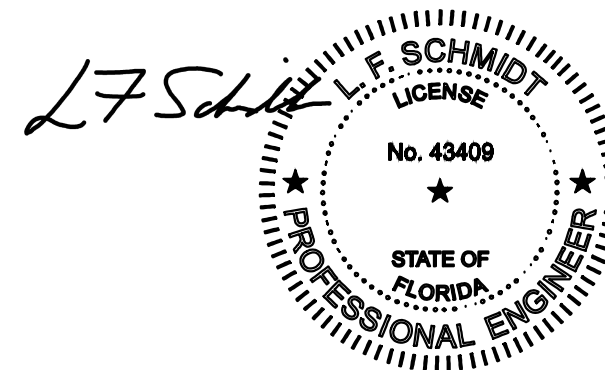




**WOOD EDGE  
OPAQUE FIBERGLASS DOUBLE DOOR  
INSWING/OUTSWING  
"IMPACT" DOOR w/ "NON-IMPACT" SIDELITES**

1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) Florida Building Code (FBC) 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 FBC Section 1626 and does not require an impact resistant covering. The non-impact sidelite(s) must be protected with an impact resistant covering complying with FBC Section 1626.
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 and FBC Sections 1609.1.2.2 & R301.2.1.2.1. The non-impact sidelite(s) must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.
5. For 2x stud framing 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 using Coastal Sill (item #19) & Composite Sill (item #16) under active doors and all sills used under sidelites meet water infiltration requirements for "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
8. Fiber-Classic & Smooth-Star Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

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| SHEET #           | DESCRIPTION                                              | SHEET # | DESCRIPTION                          |
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| 2                 | Door Panel Details                                       | 9       | Buck & Frame Anchoring               |
| 3                 | Sidelite Panel Details                                   | 10      | Hardware Details                     |
| 4                 | Elevations                                               | 11      | Glazing Details                      |
| 5                 | Horizontal & Vertical Cross Sections (2X Buck)           | 12      | Components                           |
| 6                 | Horizontal & Vertical Cross Sections (1X Buck)           | 13      | Bill of Materials                    |
| 7                 | Horizontal & Vertical Cross Sections (Direct to Masonry) |         |                                      |

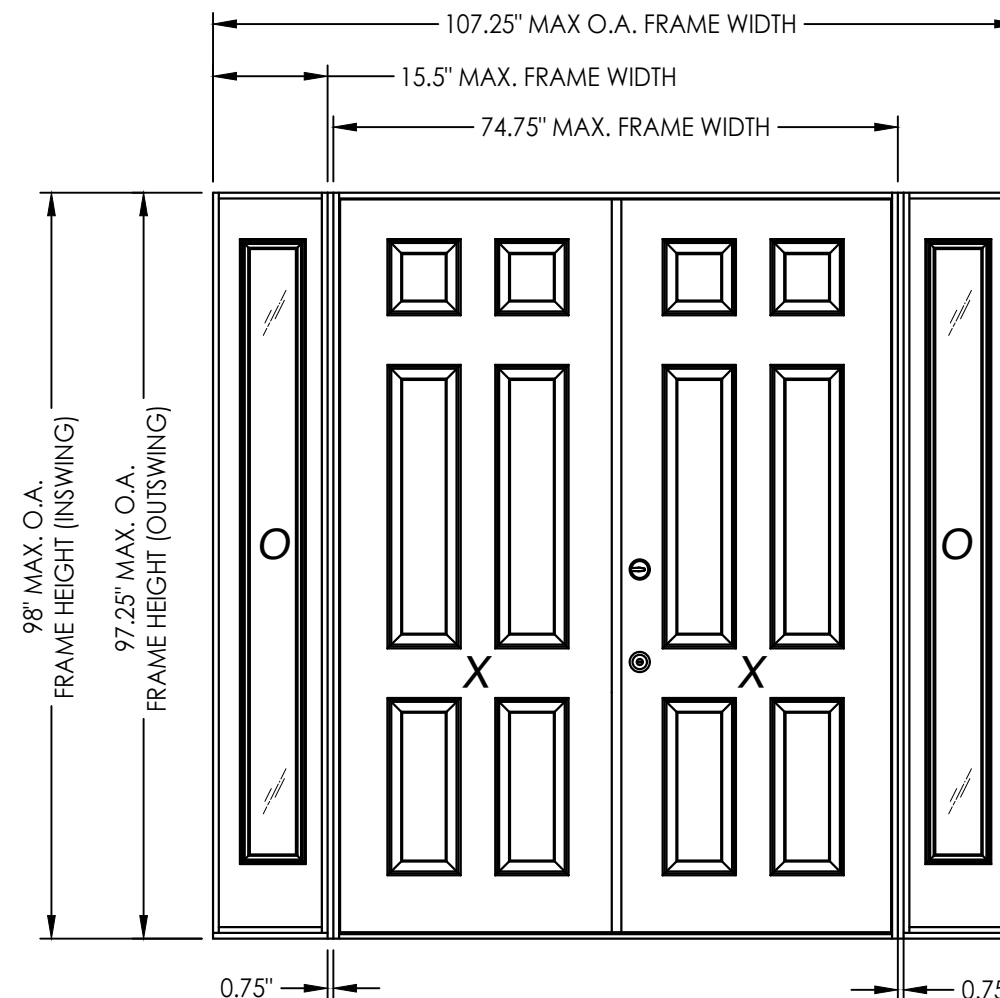


Digitally signed by Lyndon F  
Schmidt  
Date: 2023.08.18 14:09:46 -04'00'

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

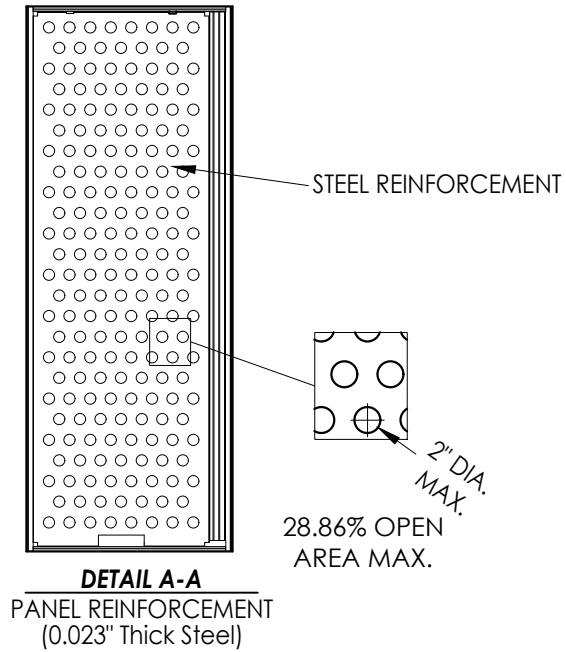


| CONFIGURATION | DESIGN PRESSURE (PSF)<br>INSWING |          | DESIGN PRESSURE (PSF)<br>OUTSWING |          |
|---------------|----------------------------------|----------|-----------------------------------|----------|
|               | POSITIVE                         | NEGATIVE | POSITIVE                          | NEGATIVE |
| OXXO          | +65.0                            | -65.0    | +65.0                             | -65.0    |

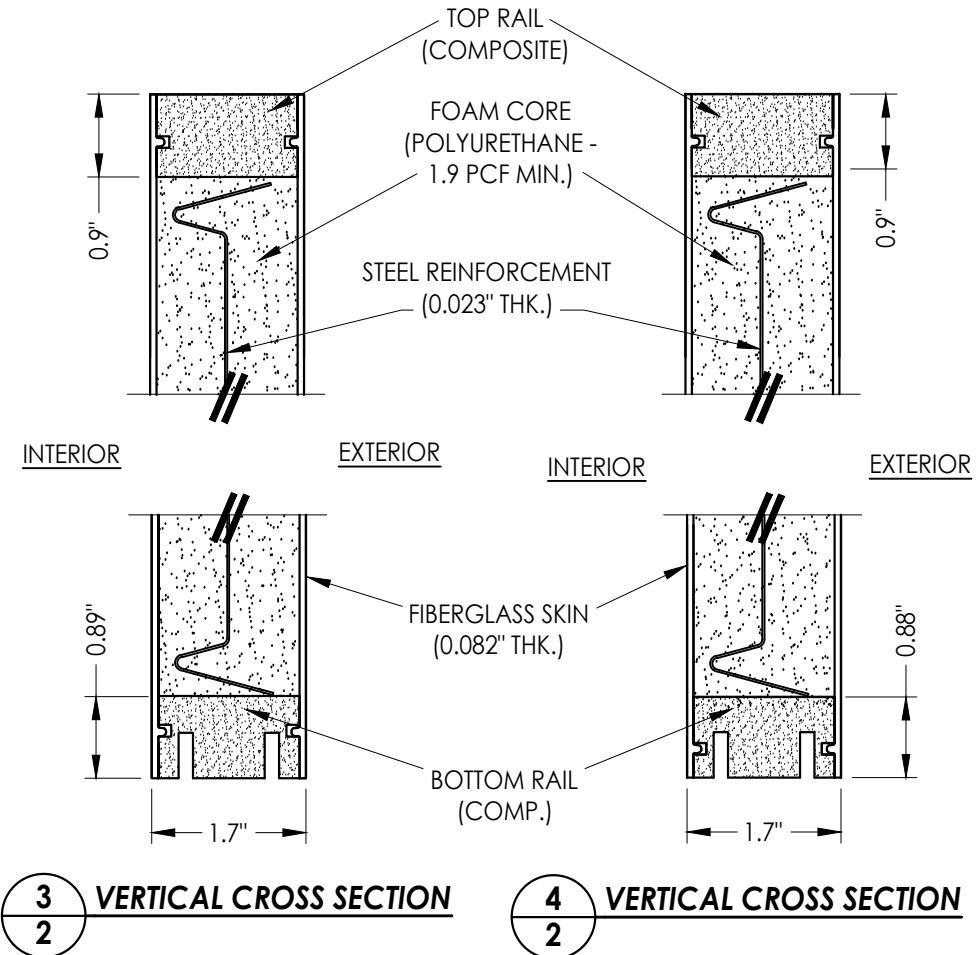
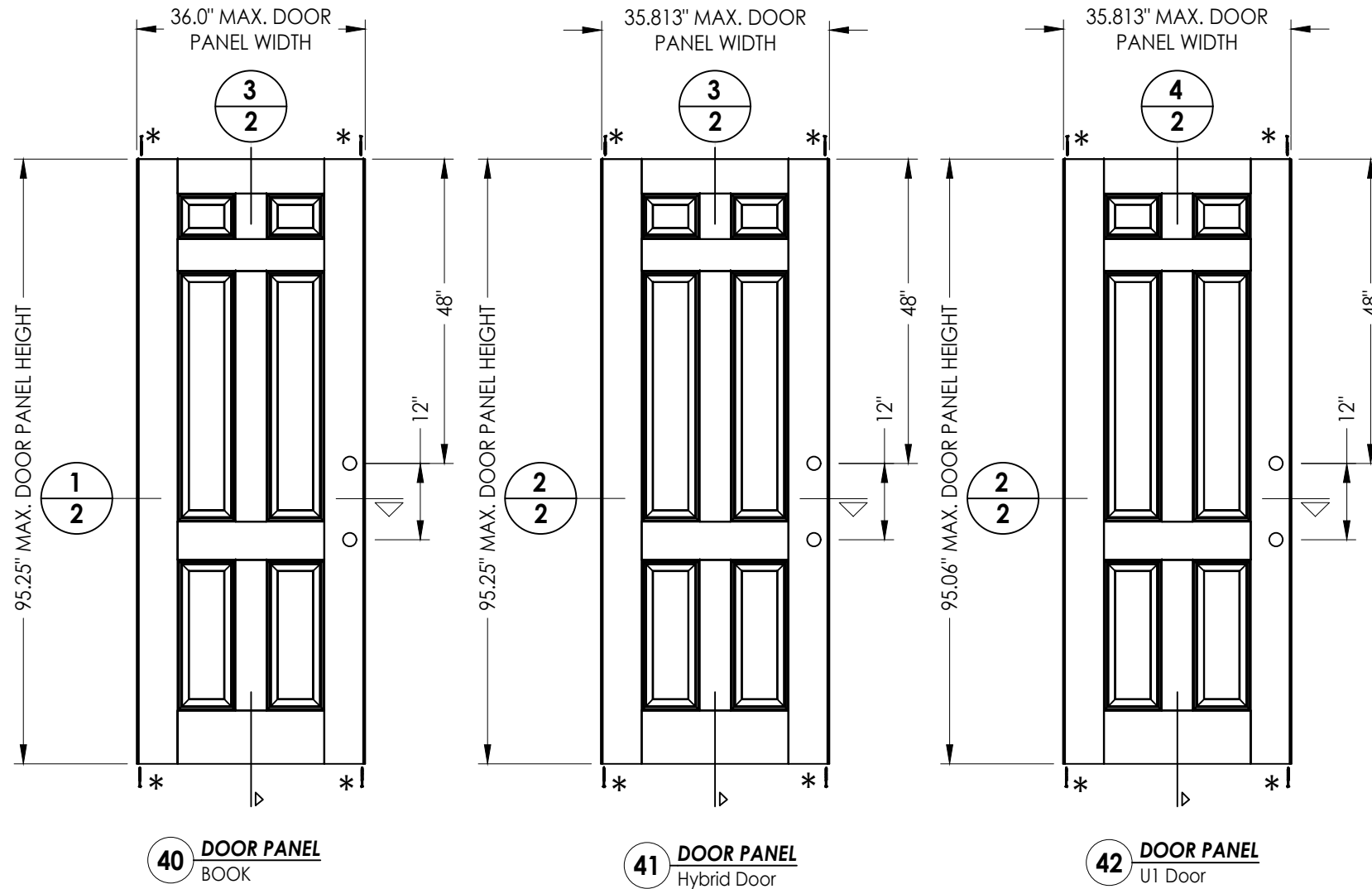
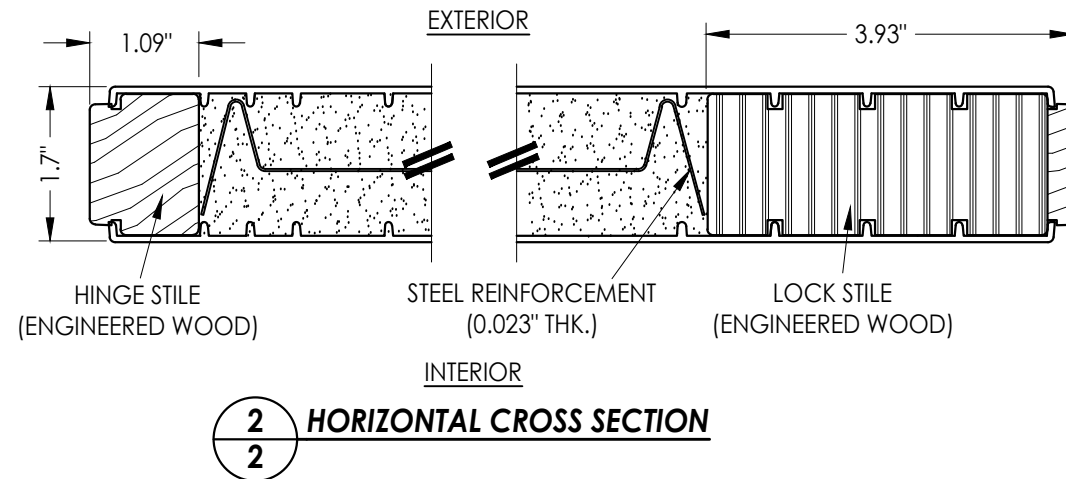
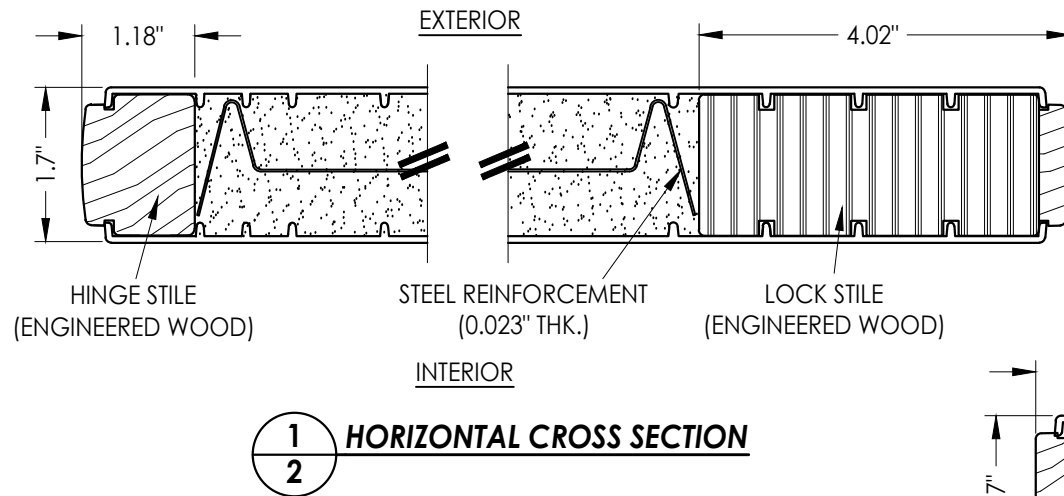
**See Sheet 4 for Hardware Specifications**

[illegible]

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\* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



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

PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
DOOR PANEL DETAILS

| NO. | DATE    | REVISIONS                |      |     |
|-----|---------|--------------------------|------|-----|
|     |         | NO.                      | DATE | BY  |
| 2   | 8/18/23 | UPDATE TO 8TH ED. (2023) | FBC  | LFS |
| 1   | 7/15/20 | UPDATE TO 7th ED (2020)  | FBC  | PO  |

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

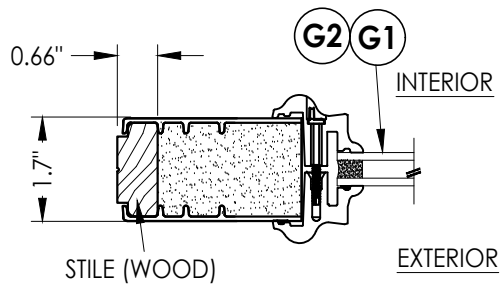
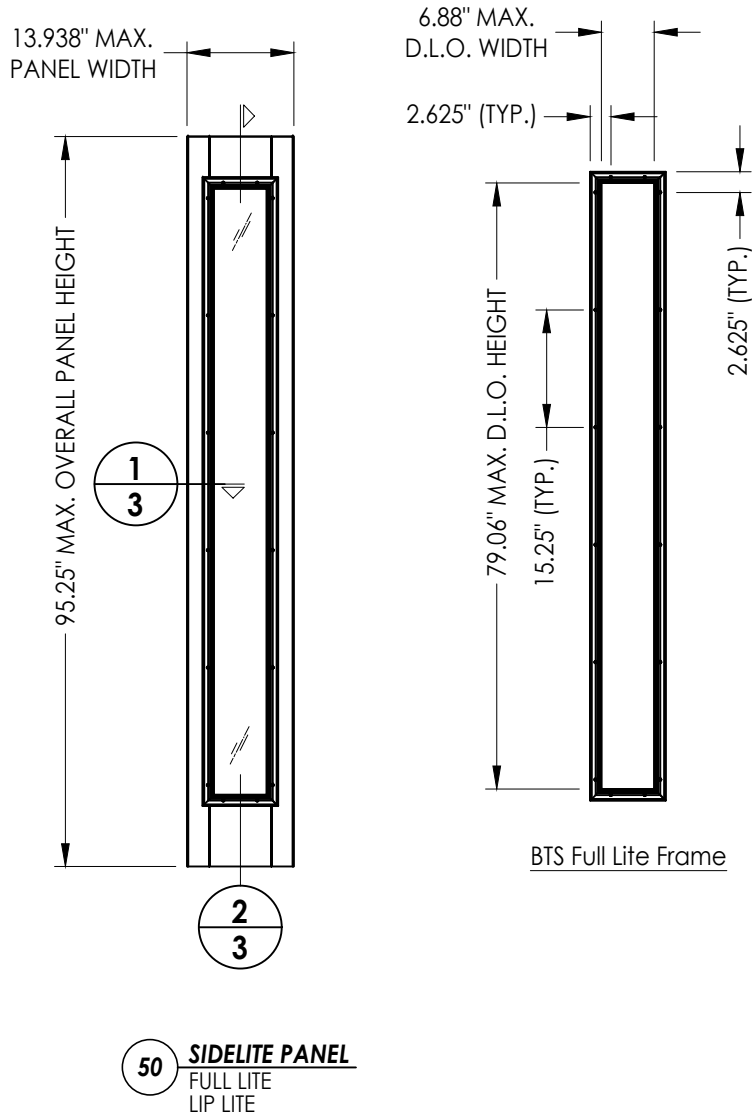
CHK. BY: LFS

DRAWING NO.: FL-21142.16

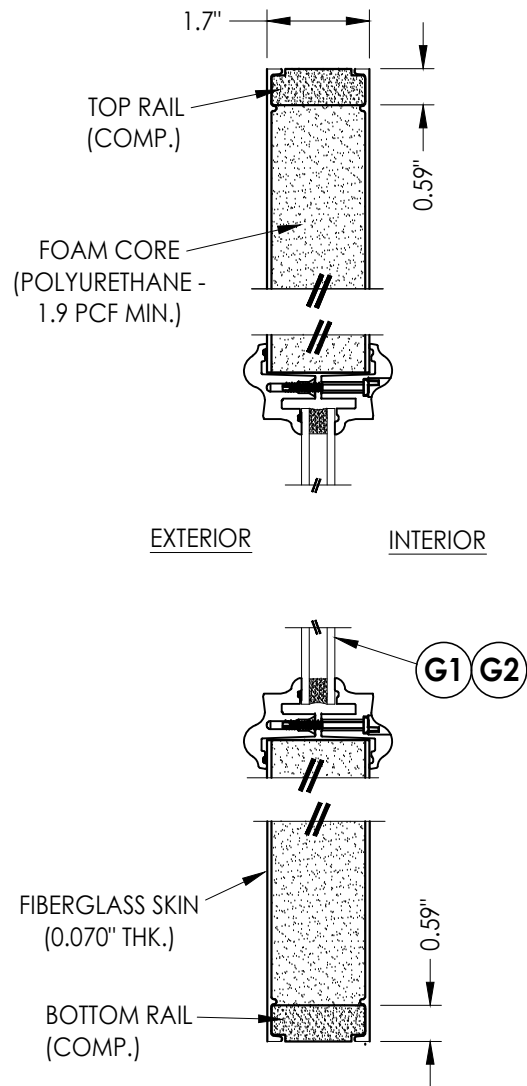
SHEET 2 OF 13

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FBPE Registry No. 9813

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1  
3 **HORIZONTAL CROSS SECTION**  
Lip Lite Glazing



2  
3 **VERTICAL CROSS SECTION**  
Lip Lite Glazing

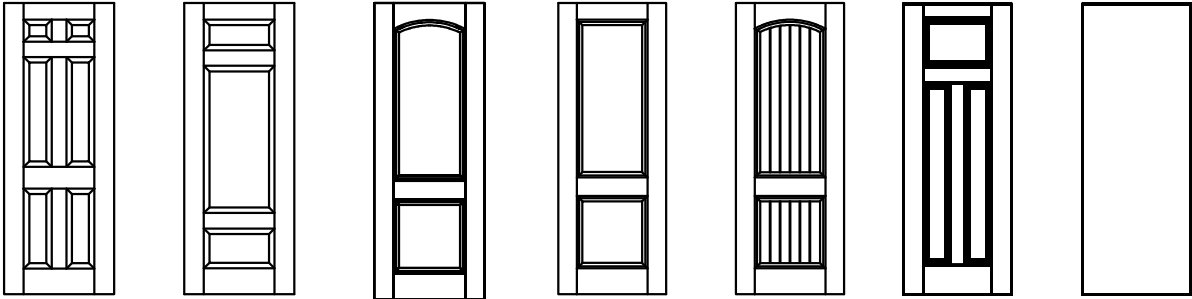
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| PRODUCT: THERMA-TRU FIBERGLASS DOOR |         | PART OR ASSEMBLY: SIDELITE PANEL DETAILS |     |
|                                     |         | LFS                                      | PO  |
|                                     |         | FBC                                      | FBC |
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| DWG. BY: JK                         |         |                                          |     |
| CHK. BY: LFS                        |         |                                          |     |
| DRAWING NO.: FL-21142.16            |         |                                          |     |
| SHEET 3 OF 13                       |         |                                          |     |

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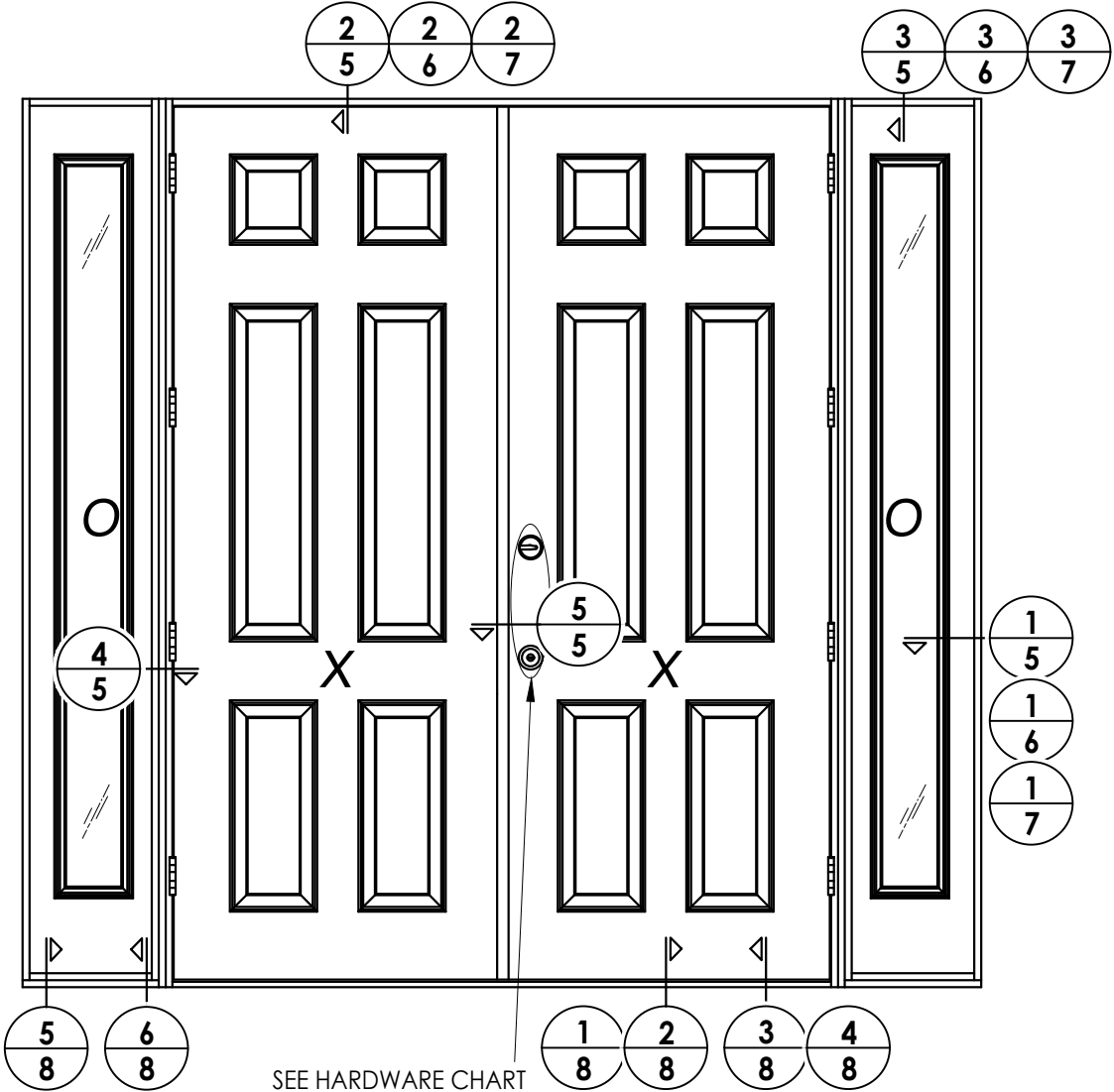
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**Fiber-Classic/Smooth-Star Door Panel Options**

Panel options shown are for illustration and are representative only  
(similar opaque panel configurations are allowed)



SEE HARDWARE CHART

| HARDWARE TABLE        |                                               |
|-----------------------|-----------------------------------------------|
| MANUFACTURER          | MODEL                                         |
| SCHLAGE               | Knob: F51                                     |
|                       | Deadbolt: B60                                 |
| KWIKSET               | Knob: SIGNATURE SERIES                        |
|                       | Deadbolt: SIGNATURE SERIES (980)              |
| HOPPE<br>(THERMA-TRU) | MULTIPOINT : MPDGART<br>(3 pt. Manual Tongue) |

PRODUCT:

THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:

ELEVATIONS

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| 1         | 7/15/20 | UPDATE TO 7th ED (2020)  | FBC PO  |
| NO.       | DATE    |                          | BY      |

DATE: 12/22/16

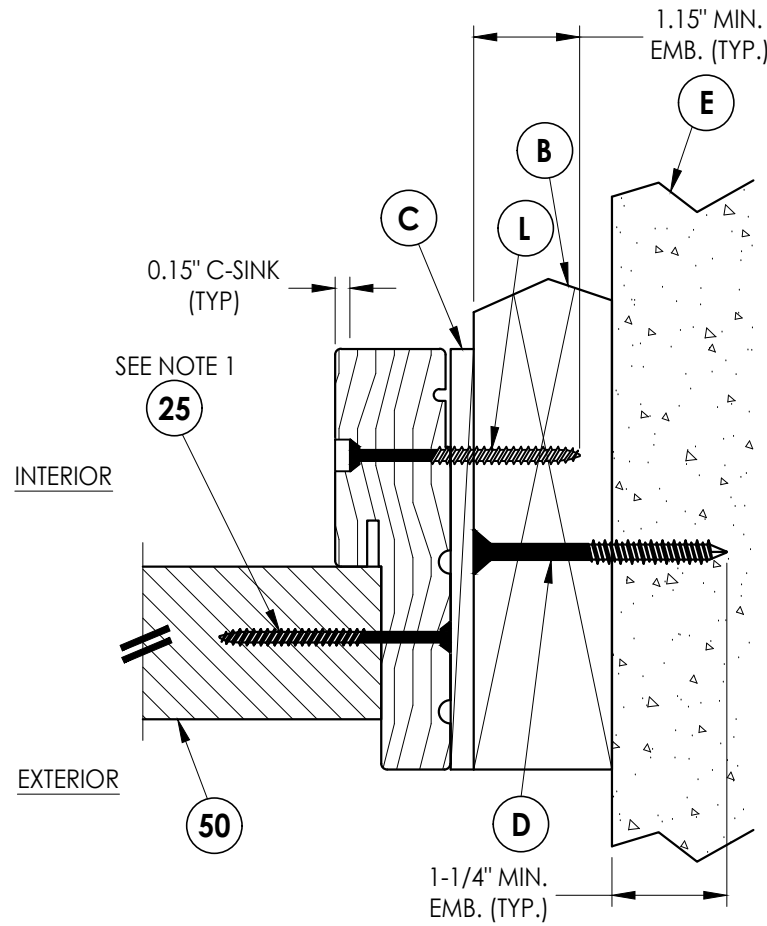
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CHK. BY: LFS

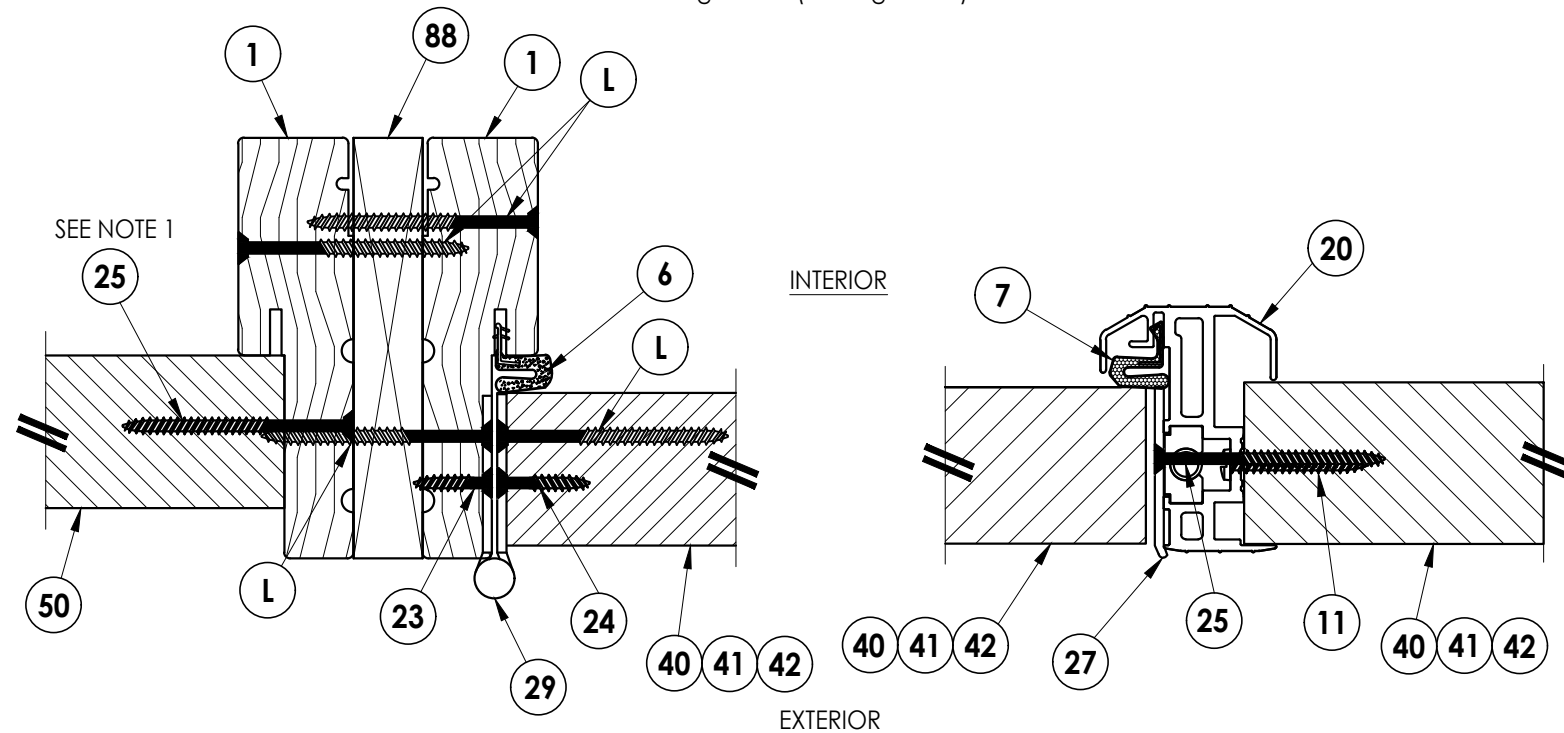
DRAWING NO.: FL-21142.16

SHEET 4 OF 13



## 1 5 **HORIZONTAL CROSS SECTION**

Shown w/ 2X Buck  
Outswing shown (Inswing similar)

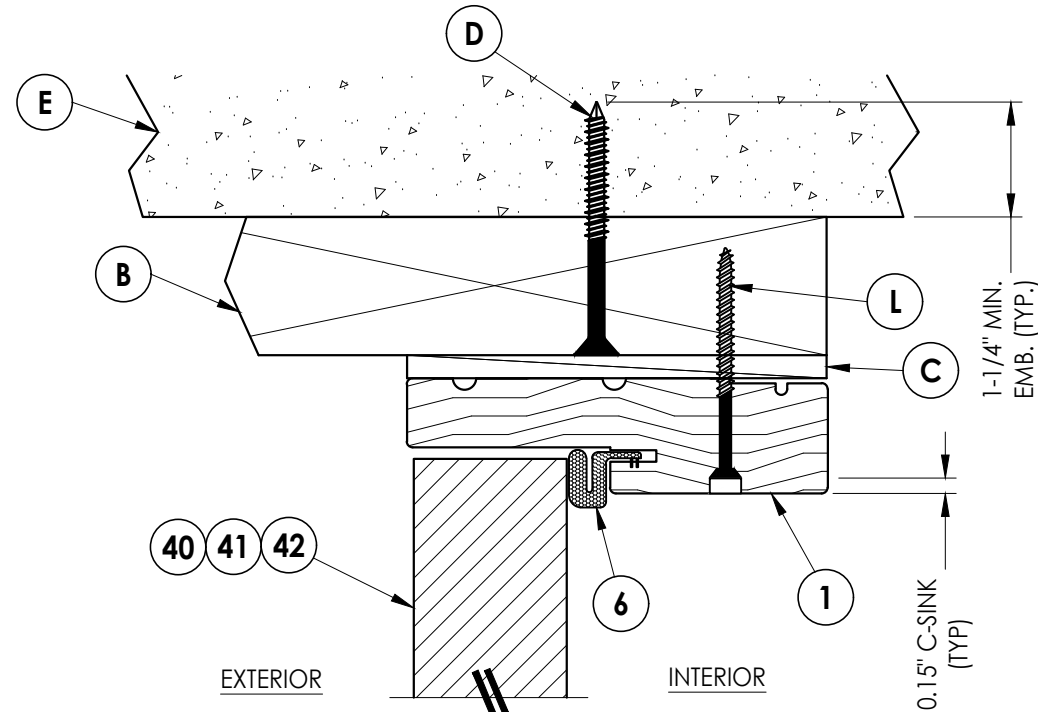


4 **HORIZONTAL CROSS SECTION**  
 5 Outswing shown (Inswing similar)

**5 HORIZONTAL CROSS SECTION**  
**5** Outswing shown (Inswing similar)

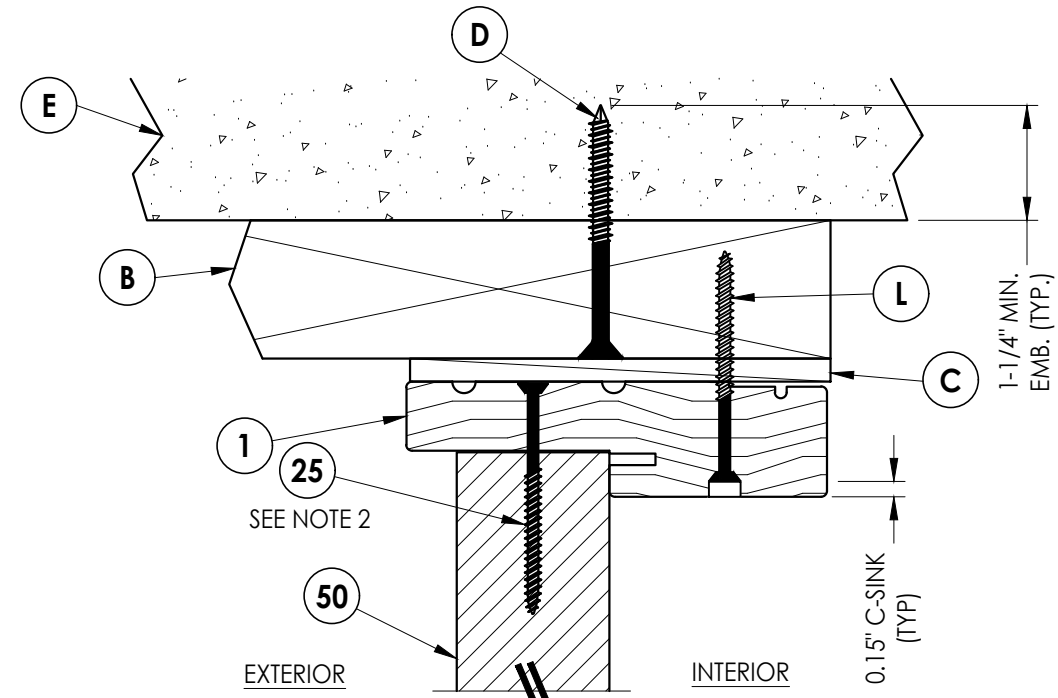
Notes:

1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



## 2 VERTICAL CROSS SECTION

5 Shown w/ 2X Buck  
Outswing shown (Inswing similar)



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

[illegible]

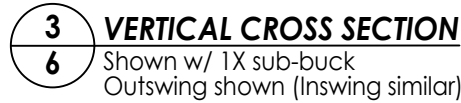
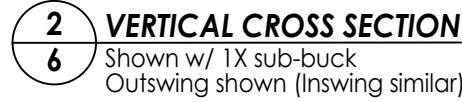
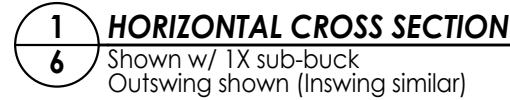
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

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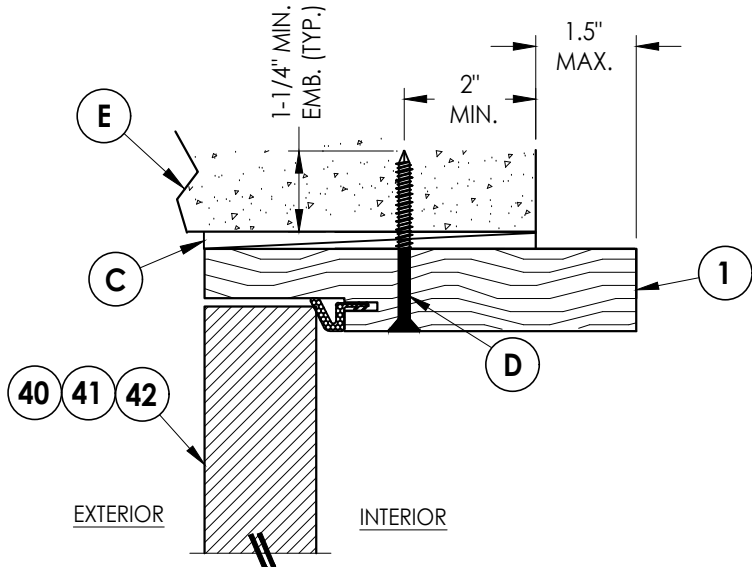
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1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).

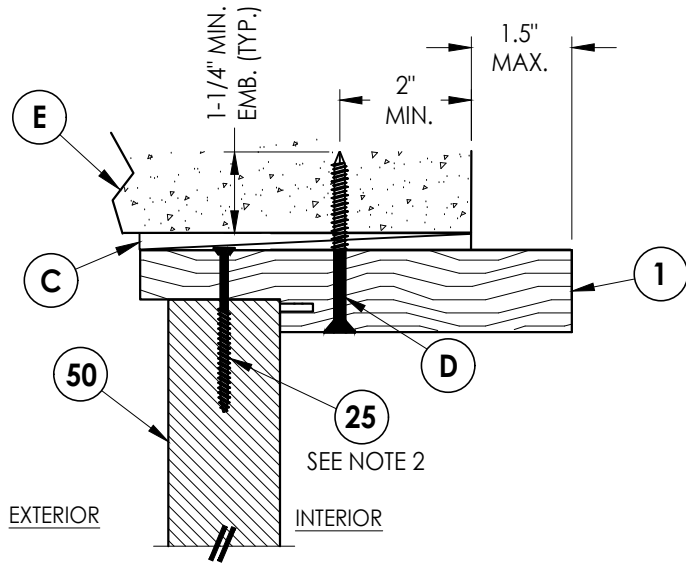
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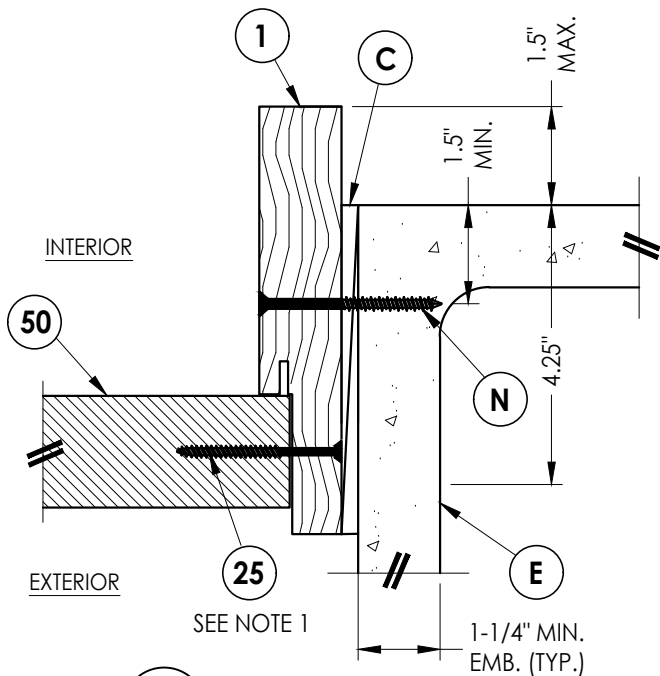
**2**  
**7** **VERTICAL CROSS SECTION**  
Shown Direct to Masonry  
Outswing only w/ 6-9/16" jamb



**3**  
**7** **VERTICAL CROSS SECTION**  
Shown Direct to Masonry  
Outswing only w/ 6-9/16" jamb

Notes:

1. Sidelite assembly screws located 6" from each end plus 6 more equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



**1**  
**7** **HORIZONTAL CROSS SECTION**  
Shown Direct to Masonry  
Outswing only w/ 6-9/16" jamb

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P.E. No. 43409

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FBPE Registry No. 9813

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR  
PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
SECTIONS (DIRECT TO MASONRY)

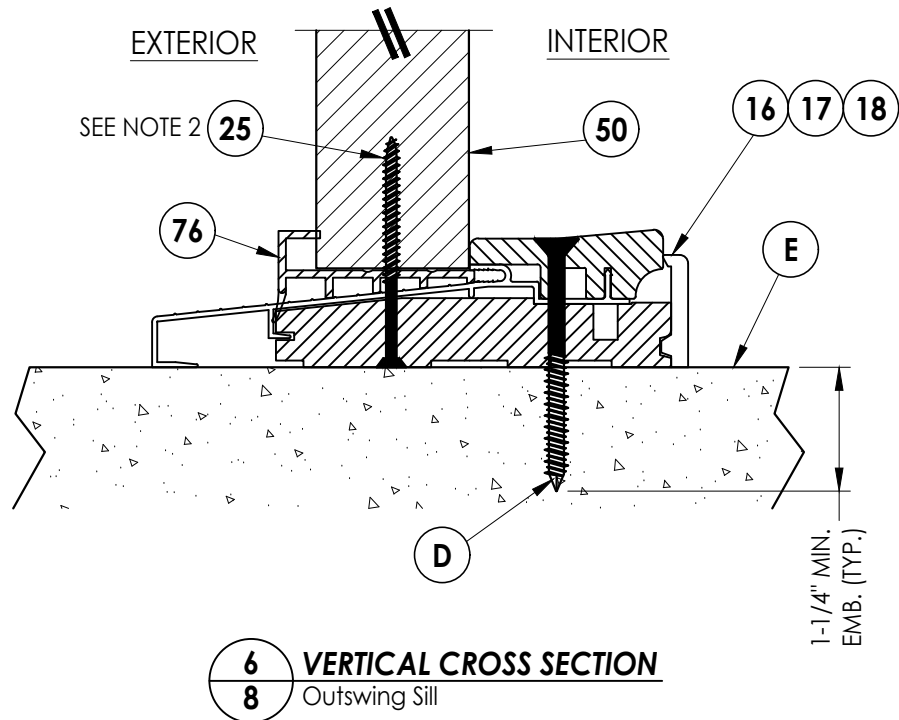
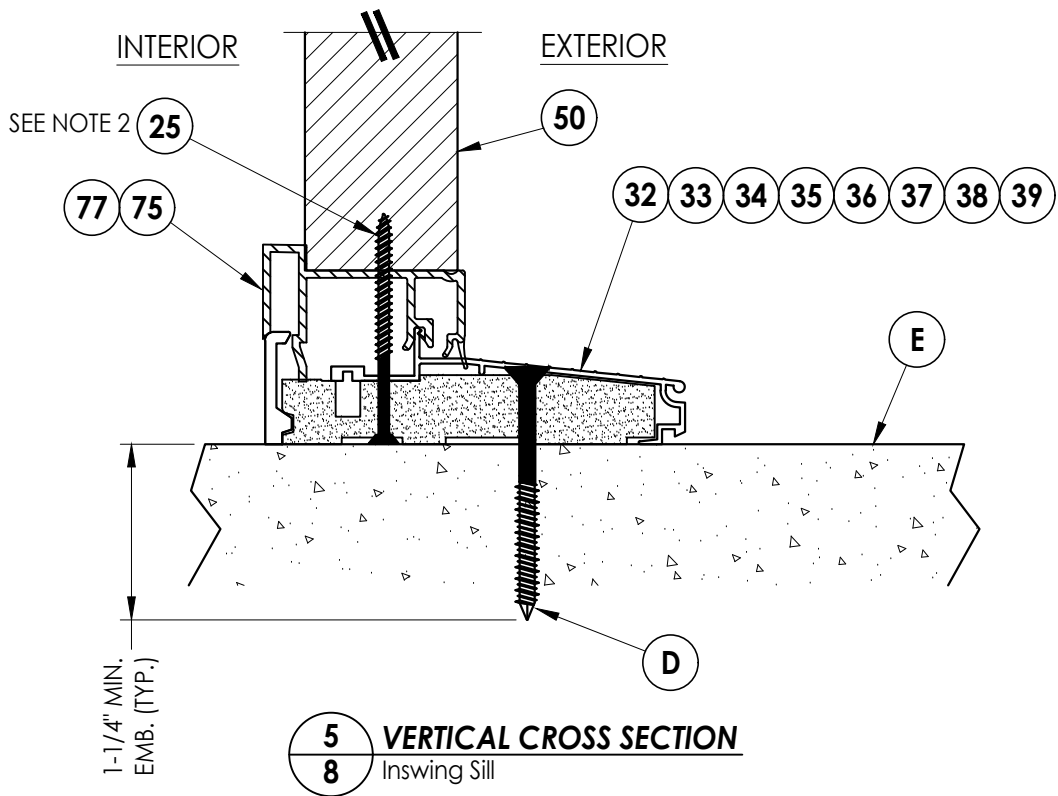
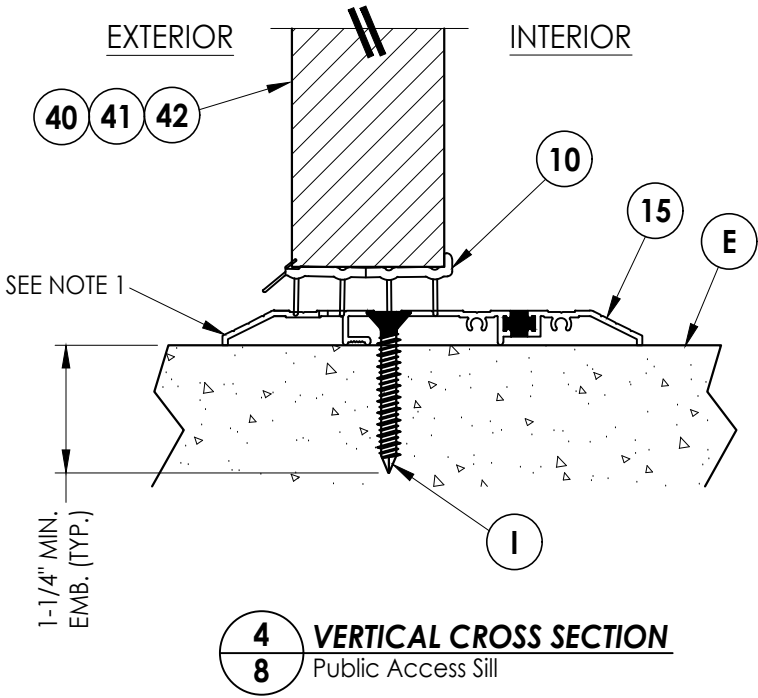
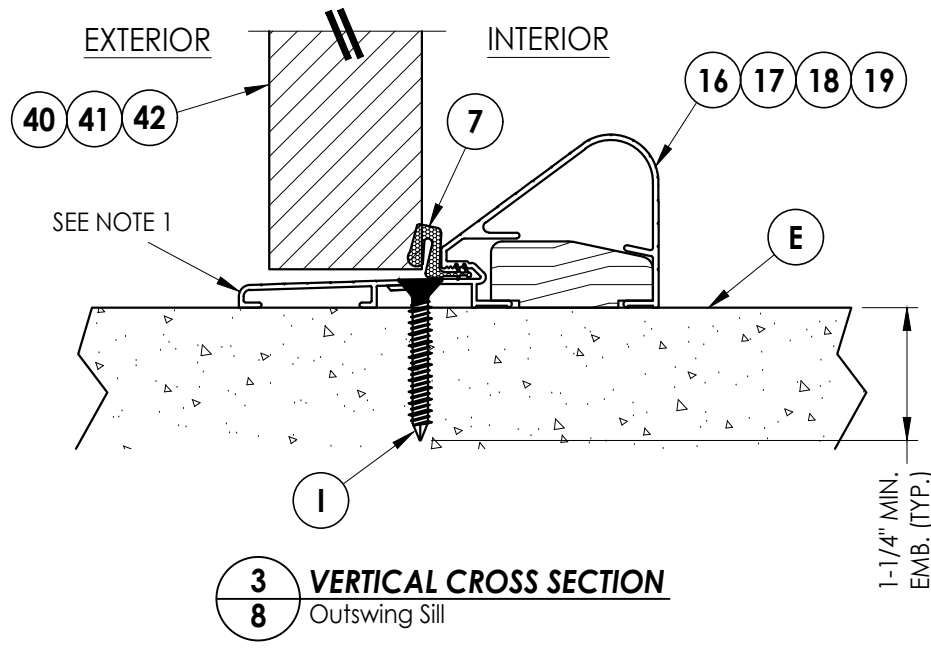
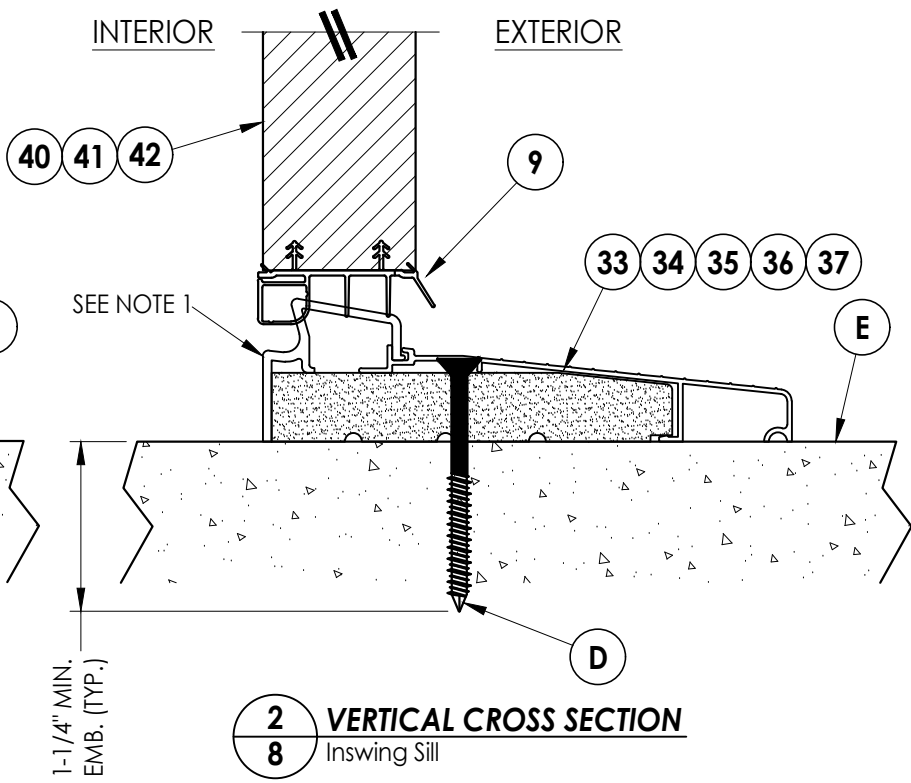
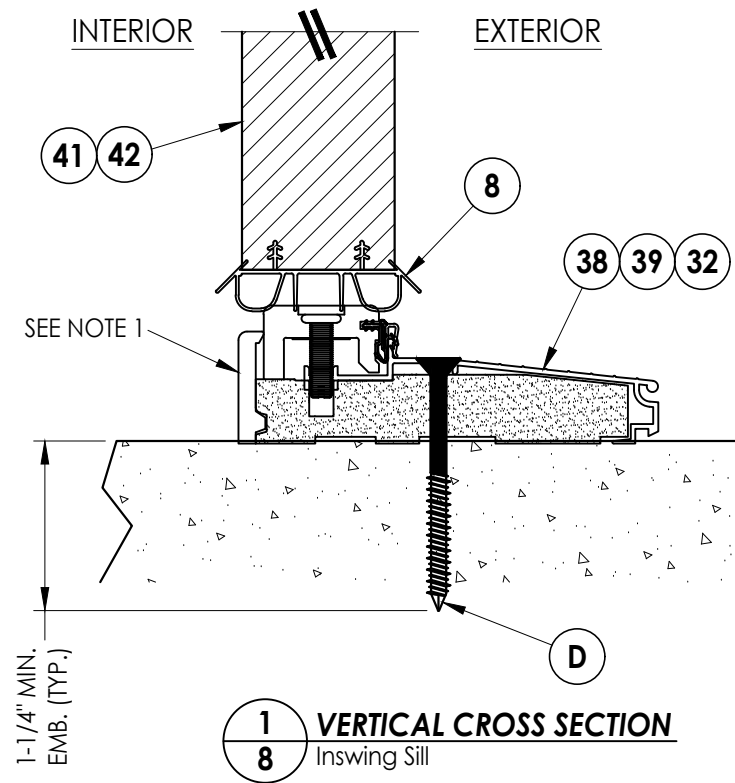
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| 1   | 7/15/20 | UPDATE TO 7th ED (2020) FBC  |
| NO. | DATE    | BY                           |

DATE: 12/22/16  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.:  
FL-21142.16  
SHEET 7 OF 13

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Notes:

1. Sill Item #'s 17, 18, 19, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.  
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.  
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph screws at each end.  
2. Sidelite assembly screws located 4" from each end (2 screws along sill).



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

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
VERTICAL CROSS  
SECTIONS (THRESHOLDS)

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 2   | 8/18/23 | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 7/15/20 | UPDATE TO 7th ED (2020) FBC  |

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

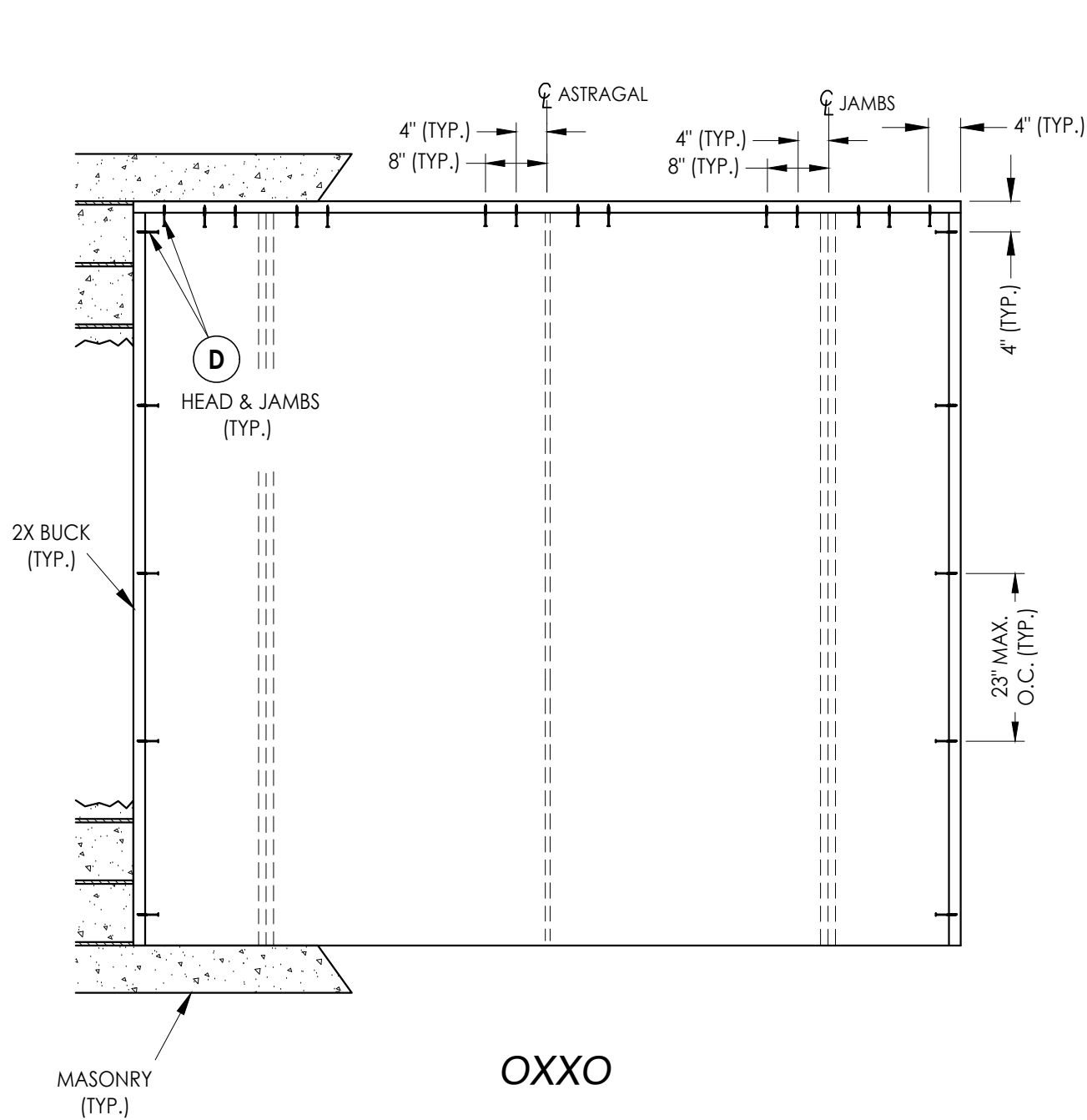
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DRAWING NO.:

FL-21142.16

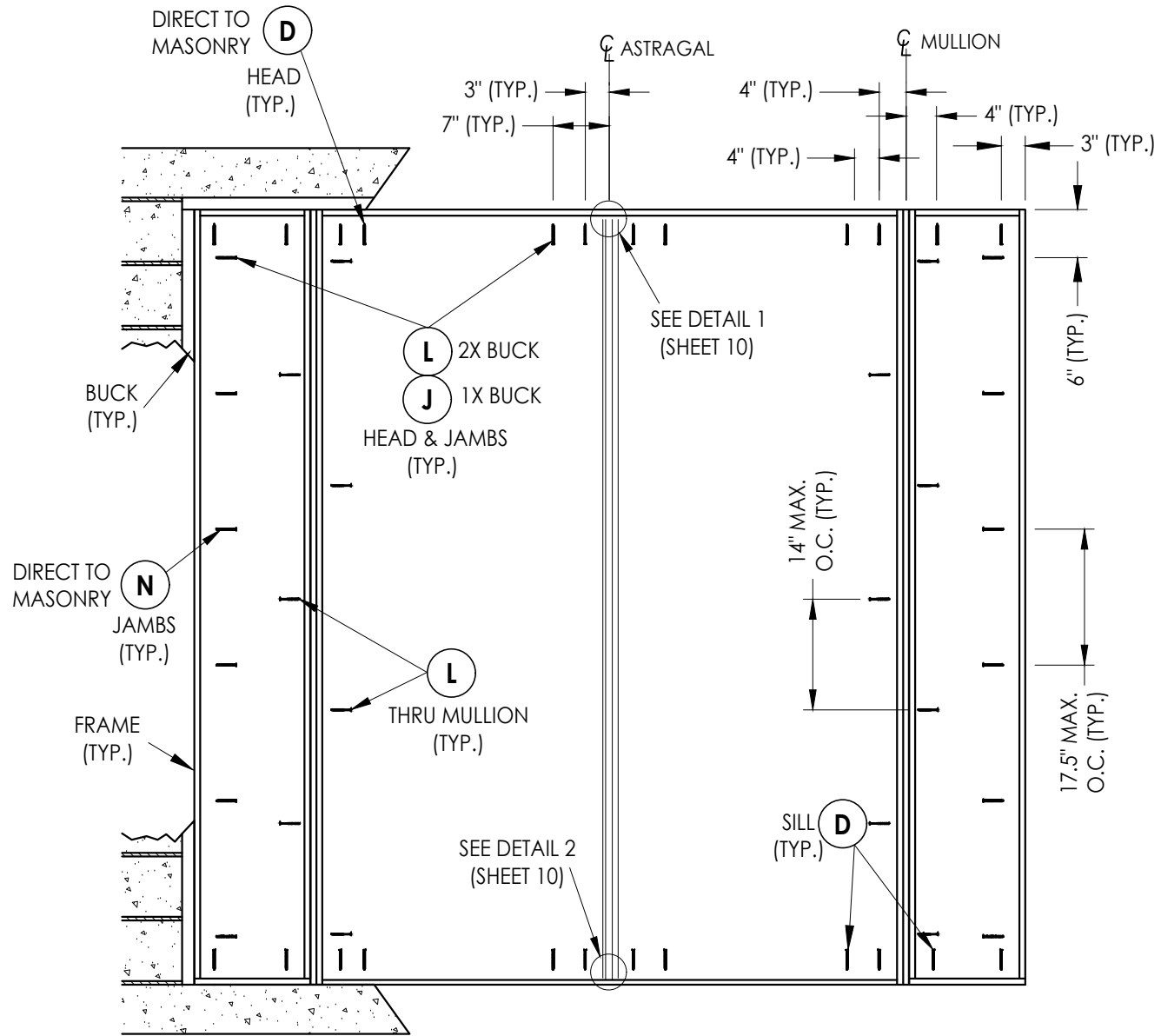
SHEET 8 OF 13

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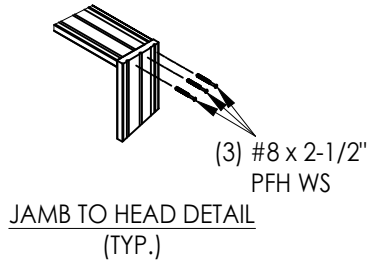
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**2X BUCK ANCHORING**

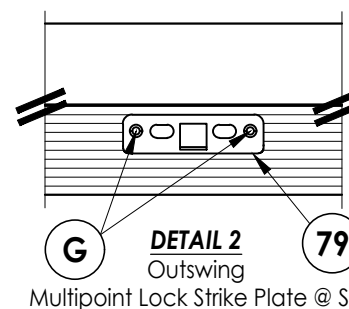
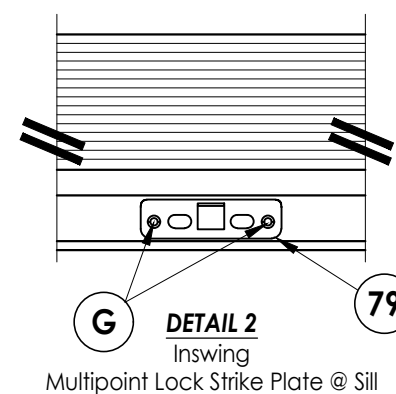
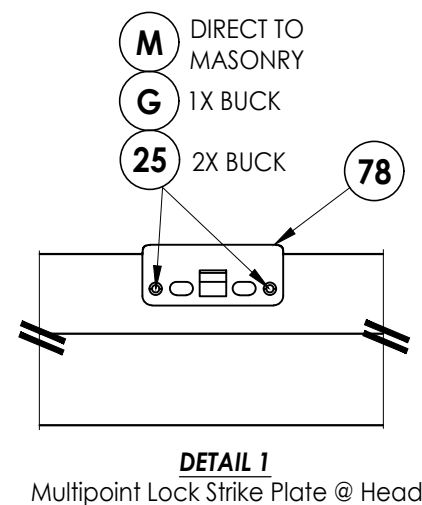
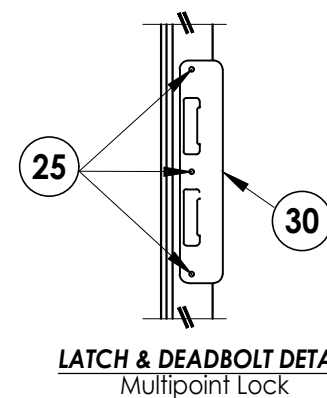
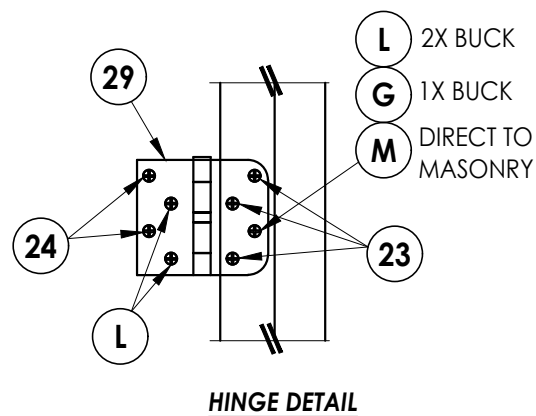
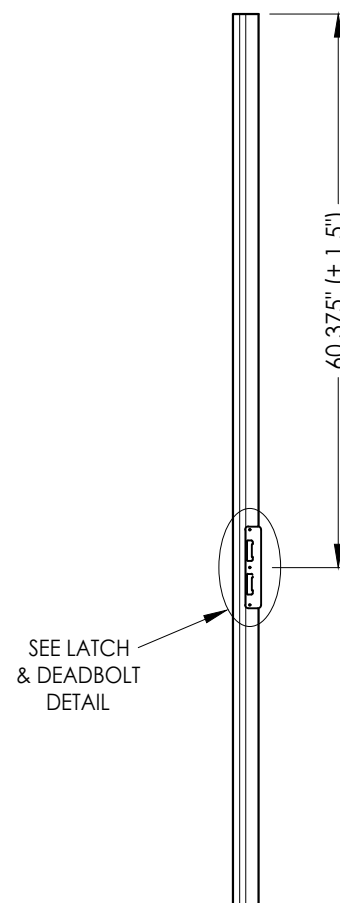
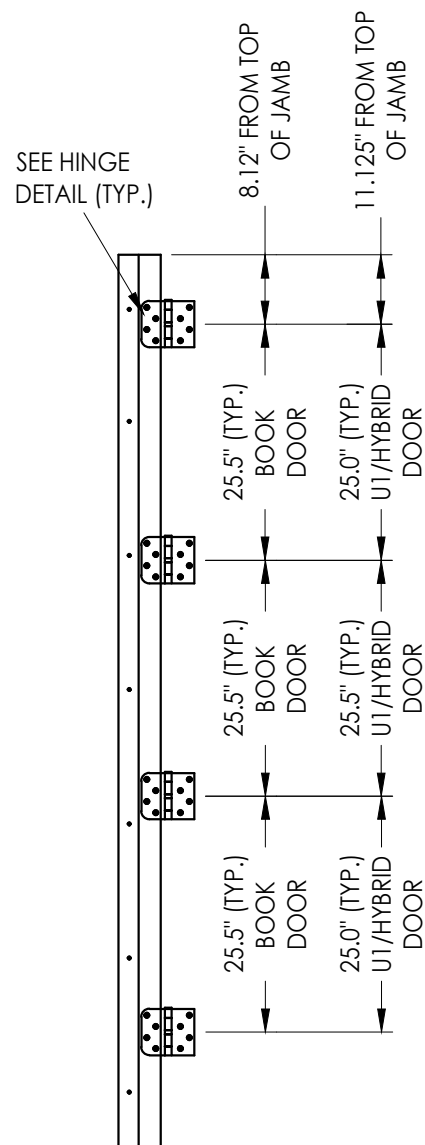
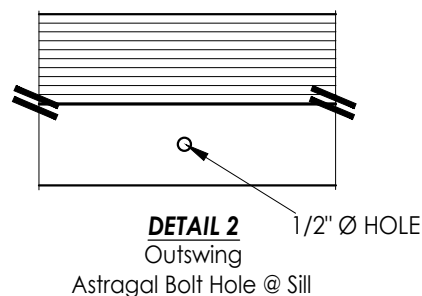
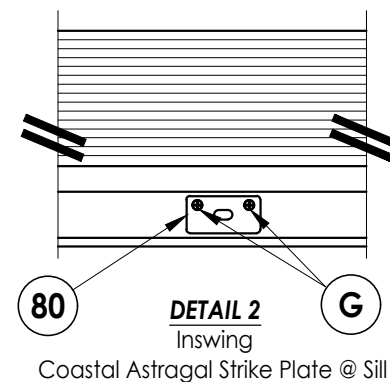
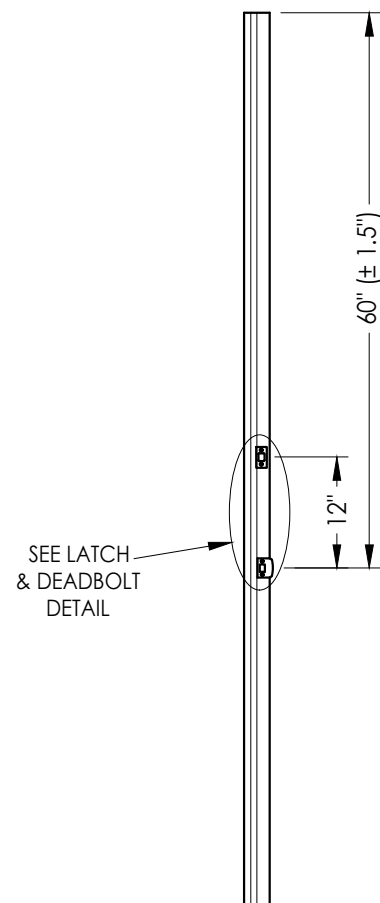
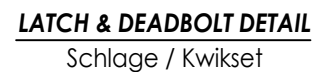


OXXO

**FRAME ANCHORING**



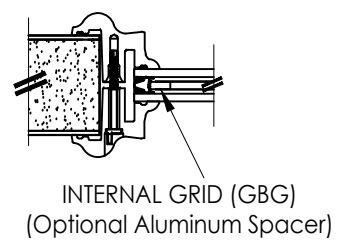
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| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |         | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |           |
| PRODUCT:<br>THERMA-TRU<br>FIBERGLASS DOOR                     |         | PART OR ASSEMBLY:<br>BUCK & FRAME ANCHORING                                                                        |           |
|                                                               |         | LFS                                                                                                                | BY        |
|                                                               |         | FBC                                                                                                                | PO        |
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| DWG. BY: JK                                                   |         |                                                                                                                    |           |
| CHK. BY: LFS                                                  |         |                                                                                                                    |           |
| DRAWING NO.:<br>FL-21142.16                                   |         |                                                                                                                    |           |
| SHEET 9 OF 13                                                 |         |                                                                                                                    |           |



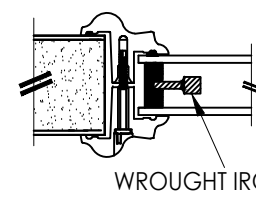
## LATCH & DEADBOLT STRIKE DETAILS

## MULTIPOINT LOCK STRIKE DETAILS

|                          |  |                              |  |                                                                                                                                                                                                           |  |
|--------------------------|--|------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DATE: 12/22/16           |  | PRODUCT:                     |  | Documents Prepared By:                                                                                                                                                                                    |  |
| SCALE: N.T.S.            |  | THERMA-TRU                   |  | Lyndon F. Schmidt                                                                                                                                                                                         |  |
| DWG. BY: JK              |  | FIBERGLASS DOOR              |  | P.E. No. 43409                                                                                                                                                                                            |  |
| CHK. BY: LFS             |  | PART OR ASSEMBLY:            |  | <br>BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  |
| DRAWING NO.: FL-21142.16 |  | HARDWARE DETAILS             |  |                                                                                                                                                                                                           |  |
| SHEET 10 OF 13           |  | LFS                          |  |                                                                                                                                                                                                           |  |
|                          |  | PO                           |  |                                                                                                                                                                                                           |  |
|                          |  | BY                           |  |                                                                                                                                                                                                           |  |
|                          |  | NO. DATE                     |  |                                                                                                                                                                                                           |  |
|                          |  | 2 8/18/23                    |  |                                                                                                                                                                                                           |  |
|                          |  | 1 7/15/20                    |  |                                                                                                                                                                                                           |  |
|                          |  | UPDATE TO 8TH ED. (2023) FBC |  |                                                                                                                                                                                                           |  |
|                          |  | UPDATE TO 7th ED (2020) FBC  |  |                                                                                                                                                                                                           |  |
|                          |  | REVISIONS                    |  |                                                                                                                                                                                                           |  |



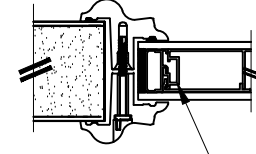
**3A** **BTS LITE FRAME**  
1/2" & 9/16" Glazing



DECORATIVE INSERT

PRIVACY INSERT

WROUGHT IRON INSERT



INTERNAL GRID (GBG)

INTERNAL GRID (GBG)  
(Optional Aluminum Spacer)

MINI BLIND  
(Aluminum Spacer)

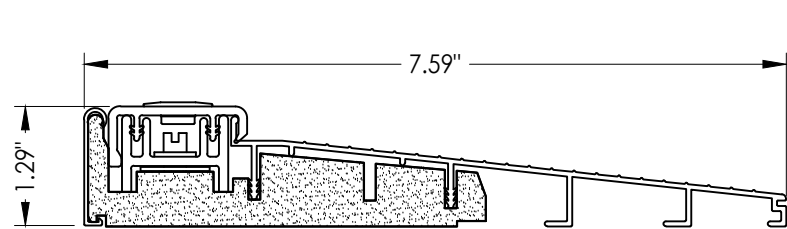
**3B** **BTS LITE FRAME**  
1" Glazing

|                          |  |                                        |  |
|--------------------------|--|----------------------------------------|--|
| DATE: 12/22/16           |  | PRODUCT: THERMA-TRU<br>FIBERGLASS DOOR |  |
| SCALE: N.T.S.            |  | PART OR ASSEMBLY: GLAZING DETAILS      |  |
| DWG. BY: JK              |  |                                        |  |
| CHK. BY: LFS             |  |                                        |  |
| DRAWING NO.: FL-21142.16 |  |                                        |  |
| SHEET 11 OF 13           |  |                                        |  |

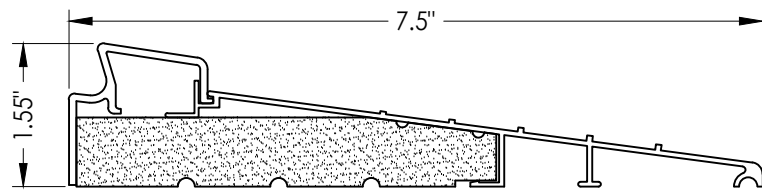
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

***R<sup>q</sup>W*** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

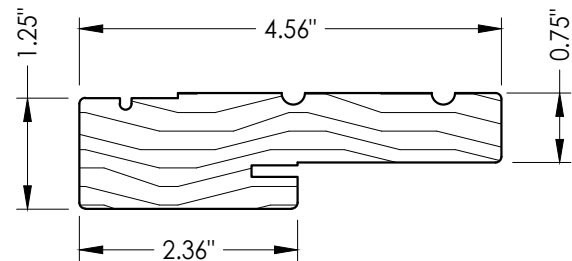
G:\2023 FBC DRAWINGS\Therma-Tru\FL-21142 R3\FL-21142.13-16.dwg



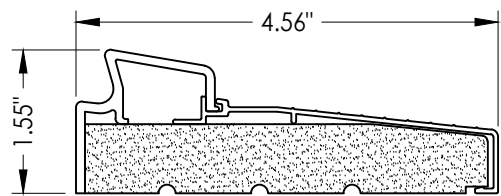
**32 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill 7-1/2"



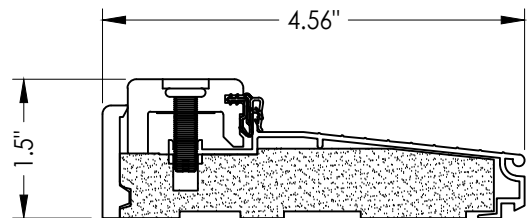
**37 INSWING THRESHOLD**  
Inswing Basic Fixed 7-1/2" Sill



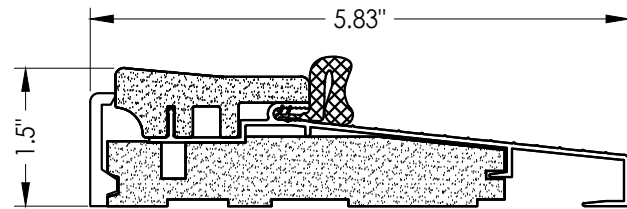
**1 WOOD JAMB**



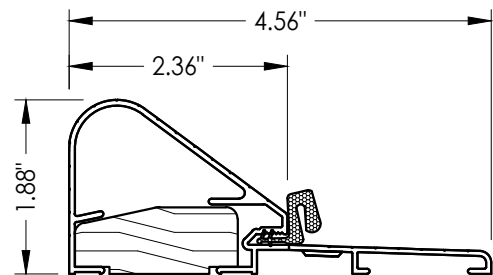
**33 INSWING THRESHOLD**  
Inswing Basic Fixed Sill



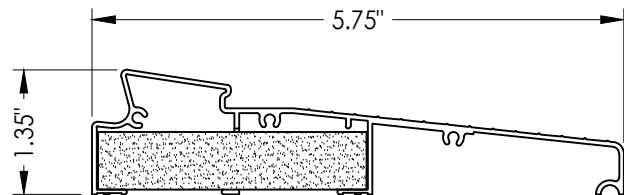
**38 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill



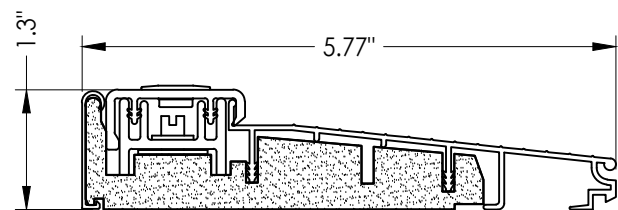
**16 OUTSWING THRESHOLD**  
Composite Sill



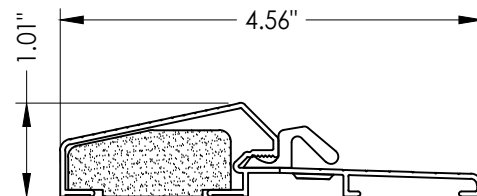
**19 COASTAL OUTSWING THRESHOLD**  
Wood / Aluminum Sill



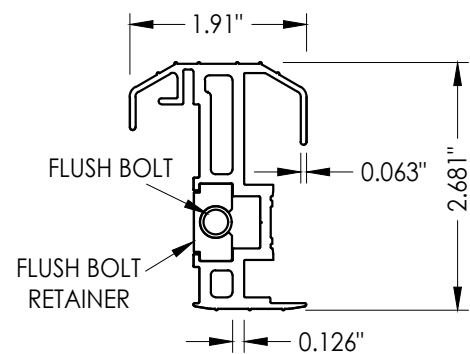
**34 INSWING THRESHOLD**  
Inswing Moderate Climate Sill 1-3/8"



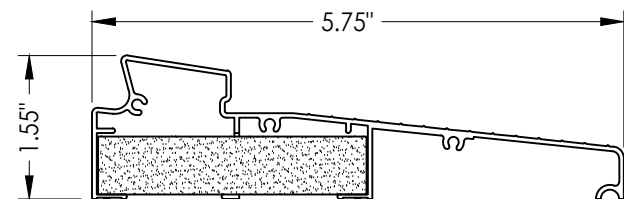
**39 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill



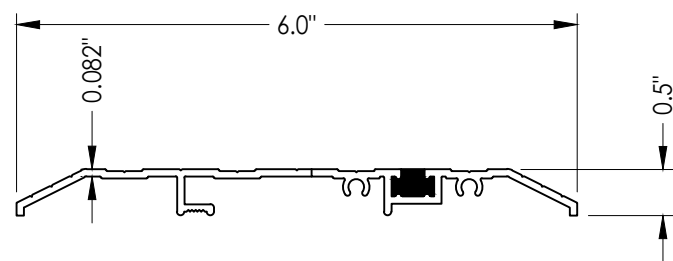
**17 OUTSWING THRESHOLD**  
Composite / Aluminum Sill



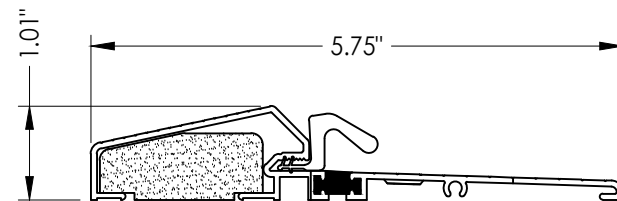
**20 COASTAL ALUMINUM ASTRAGAL**



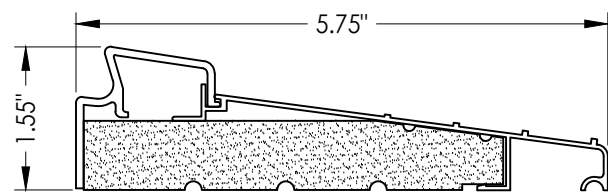
**35 INSWING THRESHOLD**  
Inswing Moderate Climate Sill



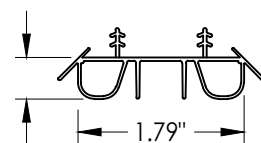
**15 PUBLIC ACCESS THRESHOLD**



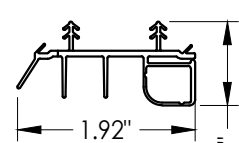
**18 OUTSWING THRESHOLD**  
Composite / Aluminum Sill  
(Thermal Break)



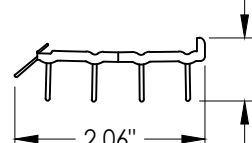
**36 INSWING THRESHOLD**  
Inswing Basic Fixed 5-3/4" Sill



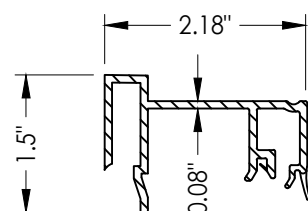
**8 SWEEP**



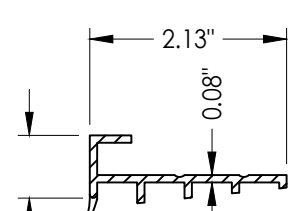
**9 SWEEP**



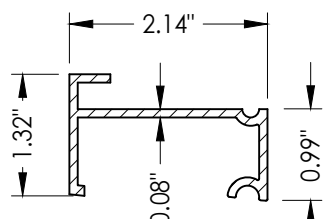
**10 SWEEP**



**75 SIDELITE SPACER**  
Inswing



**76 SIDELITE SPACER**  
Outswing



**77 SIDELITE SPACER**  
Inswing  
Moderate Climate Threshold

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:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
COMPONENTS

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 2   | 8/18/23 | UPDATE TO 8TH ED. (2023) FBC |
| 1   | 7/15/20 | UPDATE TO 7th ED (2020) FBC  |

|              |             |
|--------------|-------------|
| DATE:        | 12/22/16    |
| SCALE:       | N.T.S.      |
| DWG. BY:     | JK          |
| CHK. BY:     | LFS         |
| DRAWING NO.: | FL-21142.16 |
| SHEET        | 12 OF 13    |

| BILL OF MATERIALS |                                                                                                |            | BILL OF MATERIALS |                                                   |           |
|-------------------|------------------------------------------------------------------------------------------------|------------|-------------------|---------------------------------------------------|-----------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL   | ITEM #            | DESCRIPTION                                       | MATERIAL  |
| A                 | 1X BUCK (SG >= 0.42)                                                                           | WOOD       | 25                | #8 x 2-1/2" PFH WOOD SCREW                        | STEEL     |
| B                 | 2X BUCK (SG >= 0.42)                                                                           | WOOD       | 26                | #8 x 5/8" PFH WOOD SCREW                          | STEEL     |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -          | 27                | LATCH STRIKE PLATE                                | STEEL     |
| D                 | 1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL      | 28                | DEADBOLT STRIKE PLATE                             | STEEL     |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE   | 29                | 4" X 4" HINGE                                     | STEEL     |
| F                 | #10 X 2" PFH WOOD SCREW                                                                        | STEEL      | 32                | INSWING THRESHOLD                                 | ALUM/COMP |
| G                 | 3/16" X 3-1/4" ITW CONCRETE SCREW                                                              | STEEL      | 33                | INSWING THRESHOLD                                 | ALUM/COMP |
| I                 | 1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL      | 34                | INSWING THRESHOLD                                 | ALUM/COMP |
| J                 | 1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL      | 35                | INSWING THRESHOLD                                 | ALUM/COMP |
| L                 | #10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)                                             | STEEL      | 36                | INSWING THRESHOLD                                 | ALUM/COMP |
| M                 | 3/16" X 2-1/4" ITW CONCRETE SCREW                                                              | STEEL      | 37                | INSWING THRESHOLD                                 | ALUM/COMP |
| 1                 | JAMB (FINGER JOINT PINE )                                                                      | WOOD       | 38                | INSWING THRESHOLD                                 | ALUM/COMP |
| 6                 | WEATHERSTRIP (MEDIUM REACH)                                                                    | FOAM       | 39                | INSWING THRESHOLD                                 | ALUM/COMP |
| 7                 | WEATHERSTRIP (LONG REACH)                                                                      | FOAM       | 40                | DOOR PANEL (BOOK)                                 | -         |
| 8                 | SWEEP                                                                                          | VINYL      | 41                | DOOR PANEL (HYBRID)                               | -         |
| 9                 | SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)                                                      | VINYL      | 42                | DOOR PANEL (U1)                                   | -         |
| 10                | SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)                                                         | VINYL      | 50                | SIDELITE (FULL LITE)                              | -         |
| 11                | #10 X 1-3/4" PFH WOOD SCREW                                                                    | STEEL      | 60                | SIDELITE (HALF LITE)                              | -         |
| 15                | ADA THRESHOLD                                                                                  | ALUM       | 75                | SIDELITE SPACER (INSWING)                         | PVC       |
| 16                | OUTSWING THRESHOLD                                                                             | ALUM/COMP  | 76                | SIDELITE SPACER (OUTSWING)                        | PVC       |
| 17                | OUTSWING THRESHOLD                                                                             | ALUM/COMP  | 77                | SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL | PVC       |
| 18                | OUTSWING THRESHOLD                                                                             | ALUM/COMP  | 78                | MULTIPOINT LOCK STRIKE PLATE @ HEAD               | STEEL     |
| 19                | COASTAL OUTSWING THRESHOLD                                                                     | ALUM/ WOOD | 79                | MULTIPOINT LOCK STRIKE PLATE @ SILL               | STEEL     |
| 20                | COASTAL ALUMINUM ASTRAGAL                                                                      | ALUM       | 80                | ASTRAGAL STRIKE PLATE                             | STEEL     |
| 23                | #10 x 3/4" PFH WOOD SCREW                                                                      | STEEL      | 88                | 1X MULLION (SG >= 0.55)                           | WOOD      |
| 24                | #10 x 1" PFH WOOD SCREW                                                                        | STEEL      |                   |                                                   |           |

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 ULTRA-CON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |
| ITW TAPCON®       | 3/16"       | 1-1/4"         | AS SHOWN                       | 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.

[illegible]