

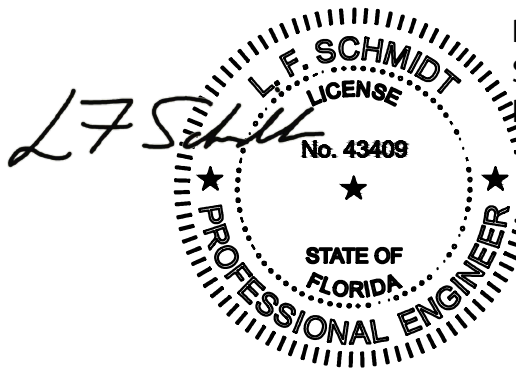
"20 Minute Fire Rated"  
(Foam Core)  
OPAQUE FIBERGLASS SINGLE DOOR  
INSWING/OUTSWING  
"IMPACT"

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 includes Wind Zone 4 as defined in ASTM E1996.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Note: Fire rating of this door is not part of this approval.

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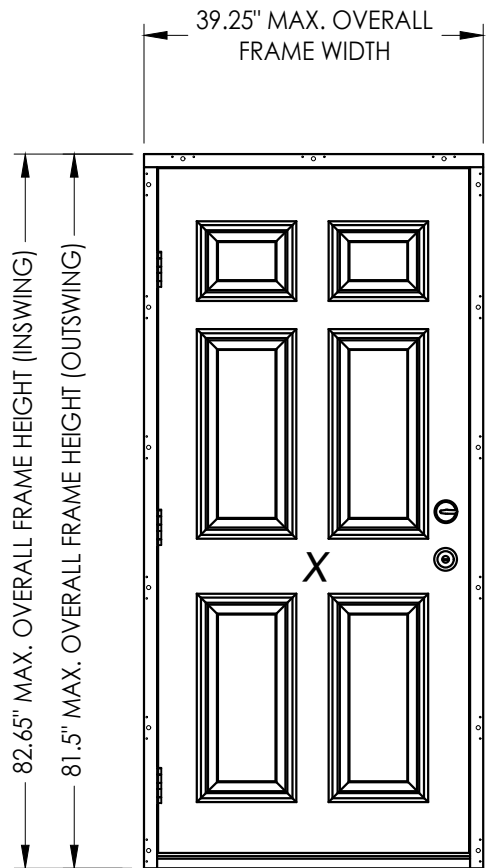
| SHEET# | DESCRIPTION                                          |
|--------|------------------------------------------------------|
| 1      | Typical elevations, design pressures & general notes |
| 2      | Door panel details                                   |
| 3      | Elevations                                           |
| 4      | Horizontal Cross Sections                            |
| 5      | Vertical Cross Sections                              |
| 6      | Buck and frame anchoring                             |
| 7      | Bill of materials and components                     |



Digitally signed by Lyndon F Schmidt  
Date: 2026.08.07 10:30:01 -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 | MAX.<br>FRAME<br>DIMENSION | DESIGN PRESSURE (PSF)<br>INSWING |          | DESIGN PRESSURE (PSF)<br>OUTSWING |          |
|---------------|----------------------------|----------------------------------|----------|-----------------------------------|----------|
|               |                            | POSITIVE                         | NEGATIVE | POSITIVE                          | NEGATIVE |
| X             | 39.25" x 82.65"            | +67.0                            | -67.0    | +67.0                             | -67.0    |

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

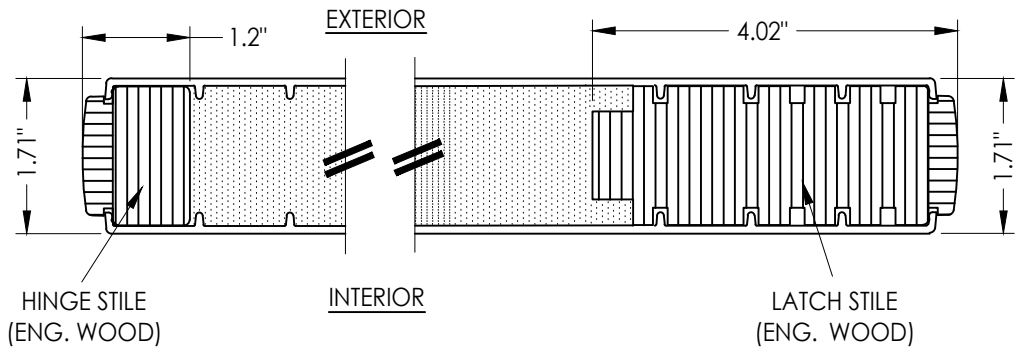
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR  
PART OR ASSEMBLY:  
TYPICAL ELEVATION, DESIGN  
PRESSURES & GENERAL NOTES

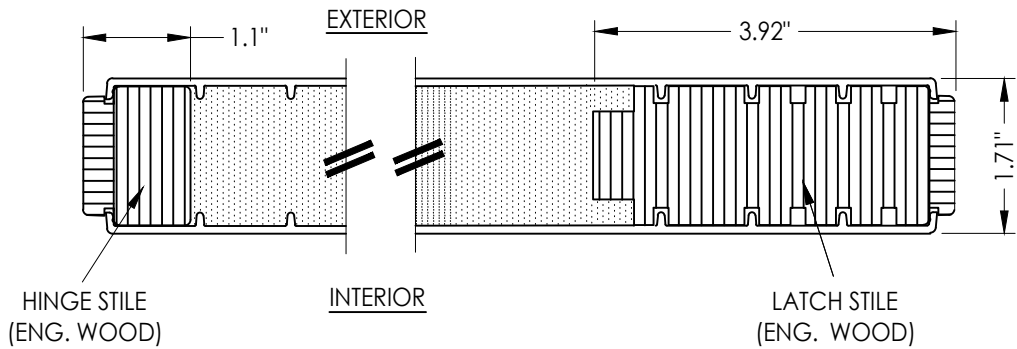
| NO. | DATE | REVISIONS                    |                              |                             |
|-----|------|------------------------------|------------------------------|-----------------------------|
|     |      | 3                            | 2                            | 1                           |
|     |      | 7/02/26                      | 8/22/23                      | 7/15/20                     |
|     |      | UPDATE TO 9TH ED. (2026) FBC | UPDATE TO 8TH ED. (2023) FBC | UPDATE TO 7th ED (2020) FBC |
|     |      | LFS                          | LFS                          | PO                          |
|     |      | BY                           |                              |                             |

DATE: 7/25/19  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.:  
FL-21138.18  
SHEET 1 OF 7

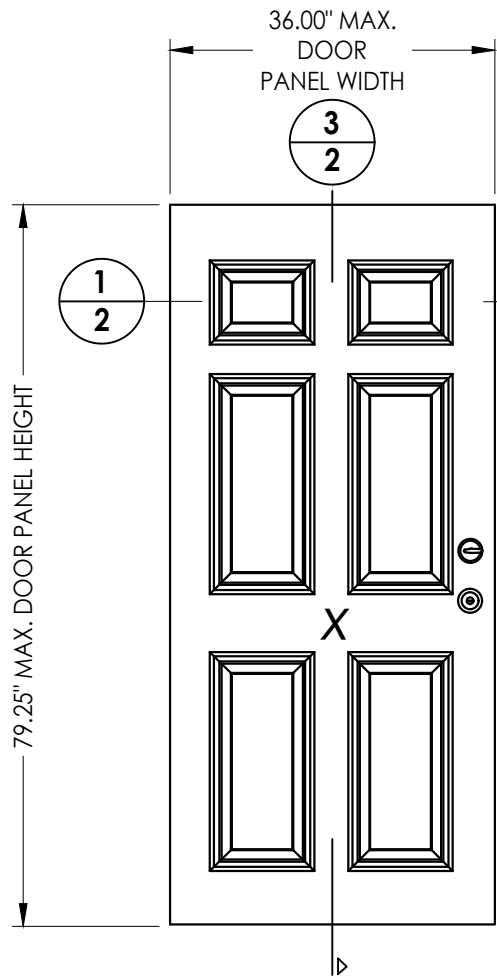
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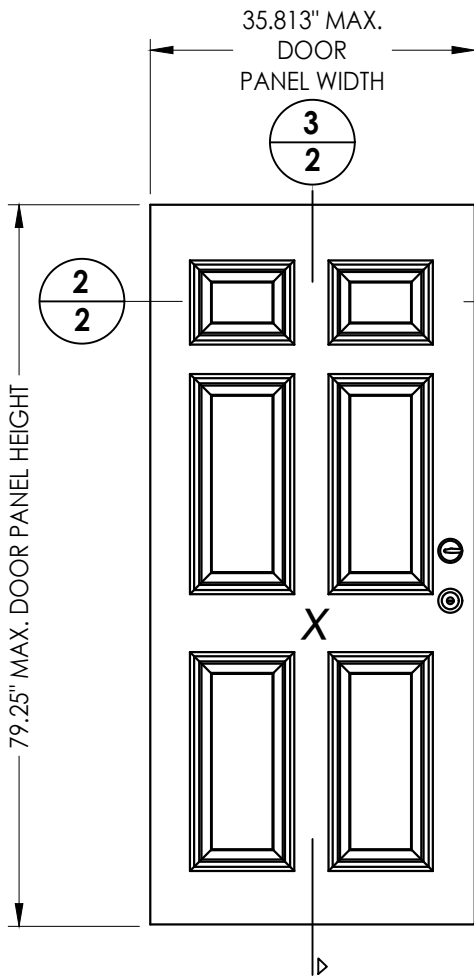
1  
2 HORIZONTAL CROSS SECTION



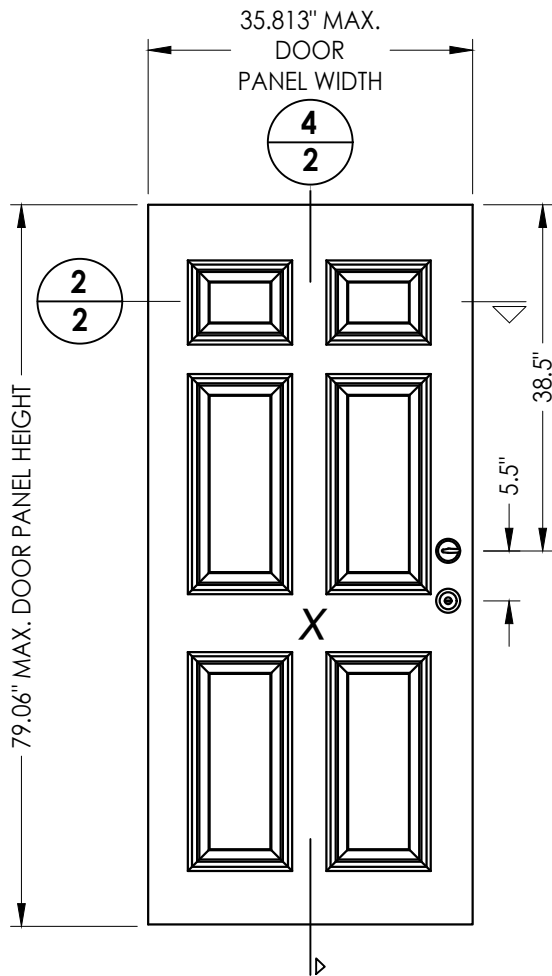
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2 HORIZONTAL CROSS SECTION



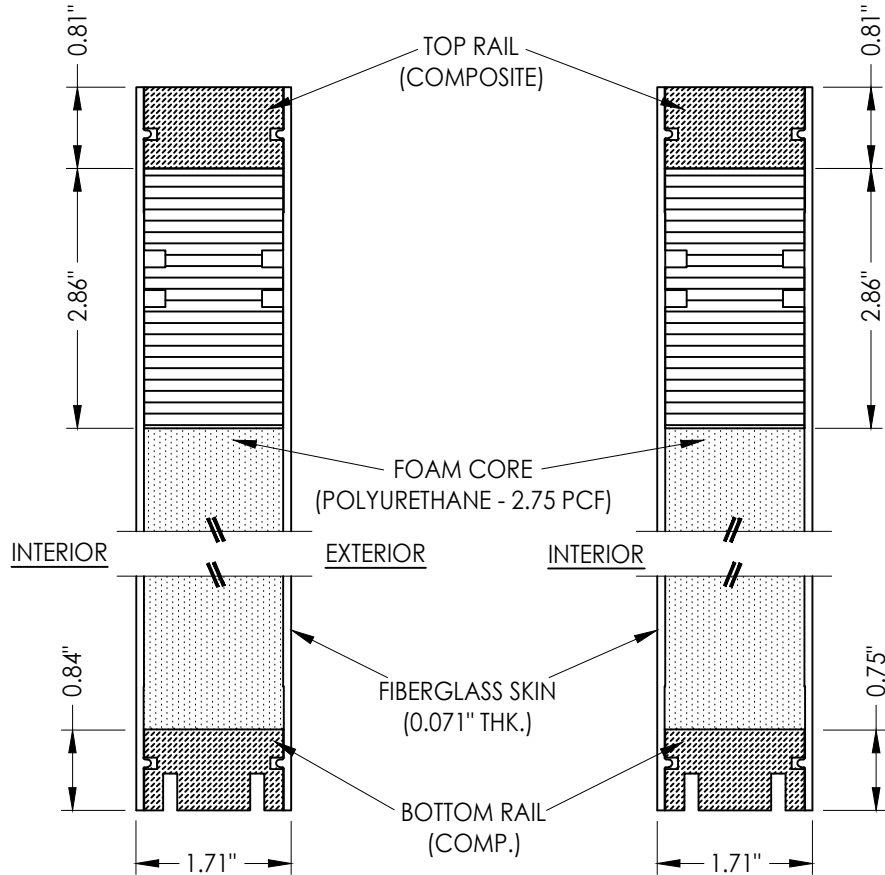
40 DOOR PANEL BOOK



41 DOOR PANEL Hybrid Door



42 DOOR PANEL U1 Door



3  
2 VERTICAL CROSS SECTION

4  
2 VERTICAL CROSS SECTION

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

PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

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

PART OR ASSEMBLY:  
DOOR PANEL DETAILS

| NO. | DATE    | BY                               |
|-----|---------|----------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
| 2   | 8/22/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 1   | 7/15/20 | UPDATE TO 7TH ED. (2020) FBC PO  |

DATE: 7/25/19

SCALE: N.T.S.

DWG. BY: RW

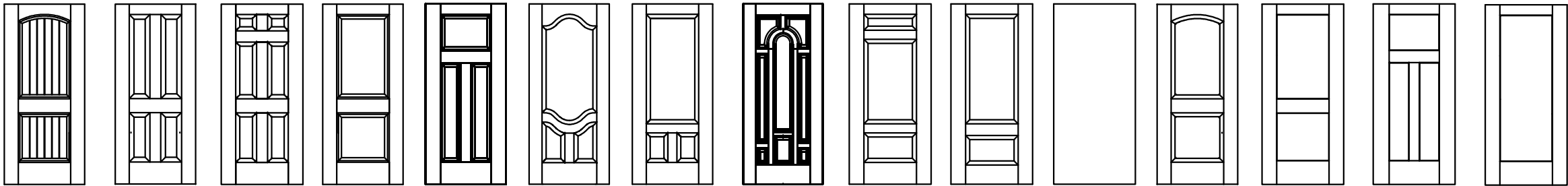
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DRAWING NO.:

FL-21138.18

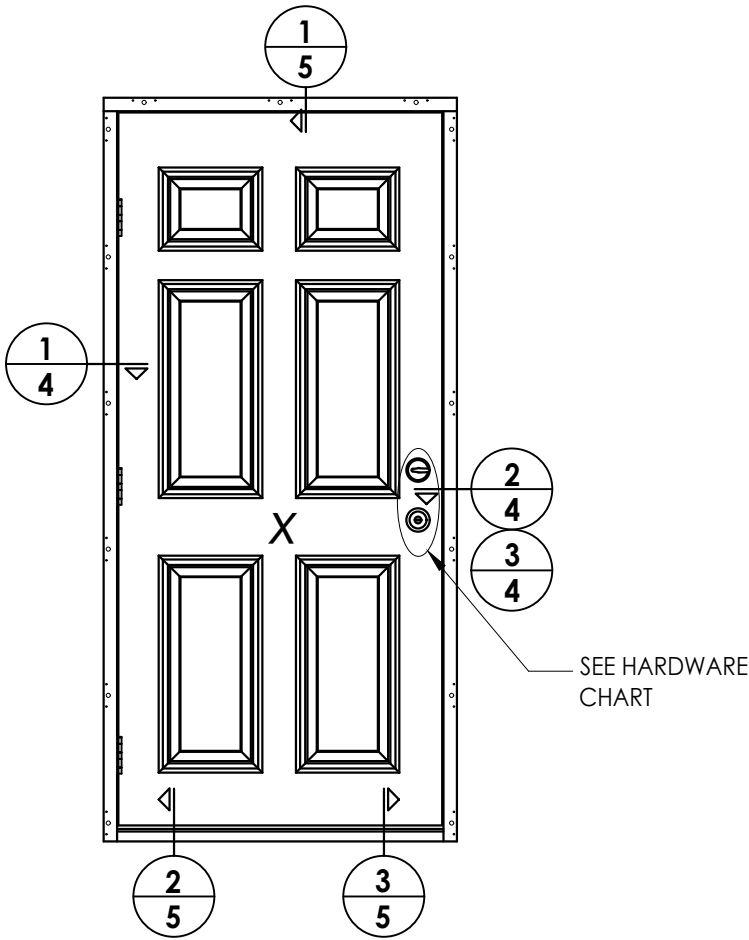
SHEET 2 OF 7

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

Products approved include all embossed and recessed panel doors.  
Similar opaque panel configurations are allowed.  
Panels shown are for illustration and are representative only.



| HARDWARE TABLE |           |                        |
|----------------|-----------|------------------------|
| MANUFACTURER   | MODEL     |                        |
| Kwikset        | Knob:     | Signature Series       |
|                | Deadbolt: | Signature Series (980) |
| Schlage        | Knob:     | "F" Series             |
|                | Deadbolt: | "B" Series (B60)       |

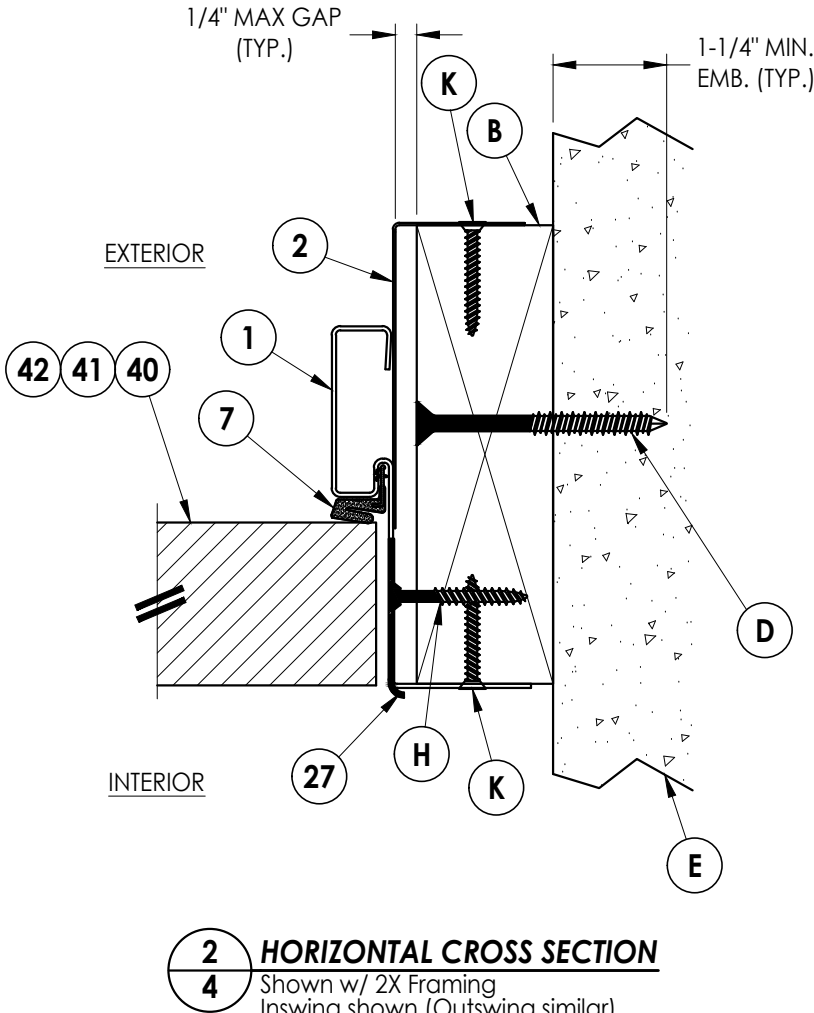
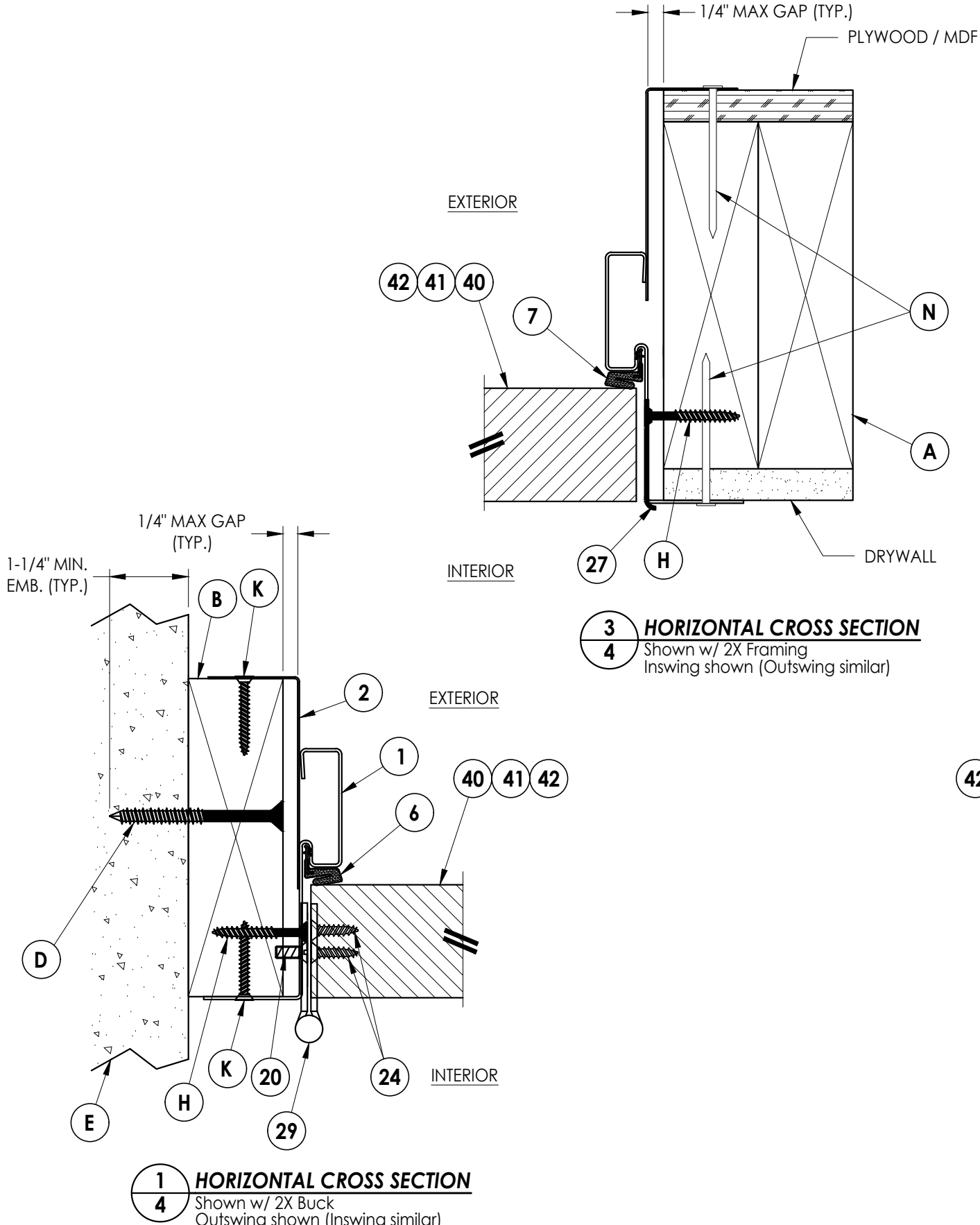
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| DWG. BY: RW              |      |
| CHK. BY: LFS             |      |
| DRAWING NO.: FL-21138.18 |      |
| SHEET 3                  | OF 7 |

| REVISIONS |         |
|-----------|---------|
| NO.       | DATE    |
| 3         | 7/02/26 |
| 2         | 8/22/23 |
| 1         | 7/15/20 |

|                                     |  |
|-------------------------------------|--|
| PRODUCT: THERMA-TRU FIBERGLASS DOOR |  |
| PART OR ASSEMBLY: ELEVATIONS        |  |

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

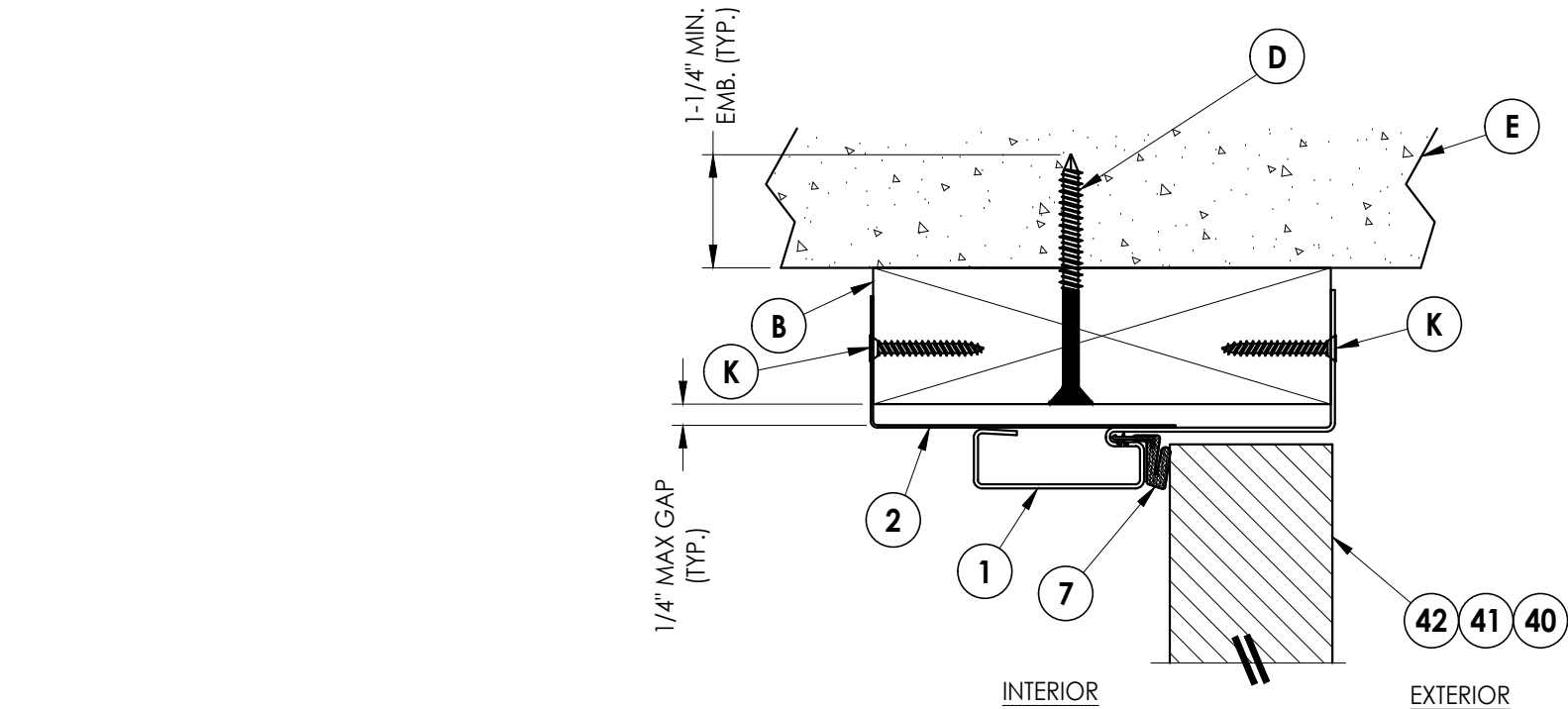
*RW* BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

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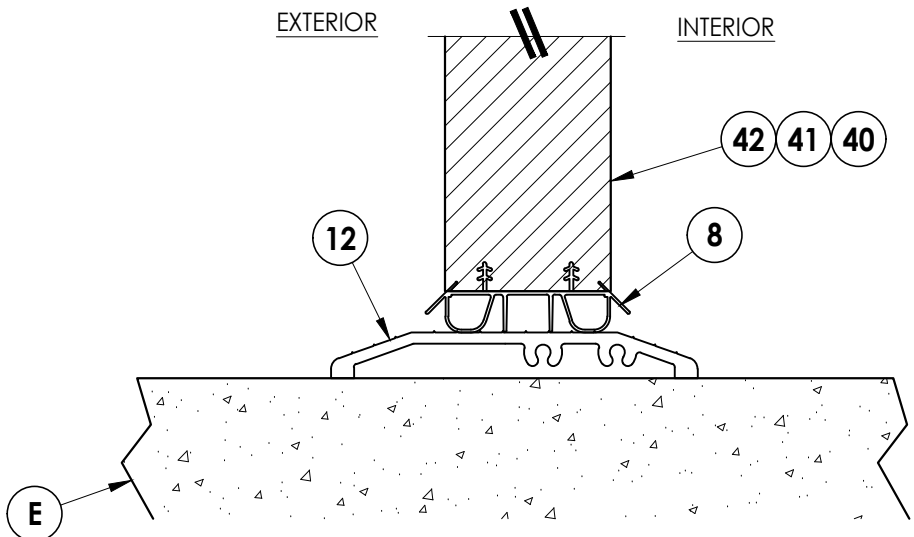
Documents Prepared By:  
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P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
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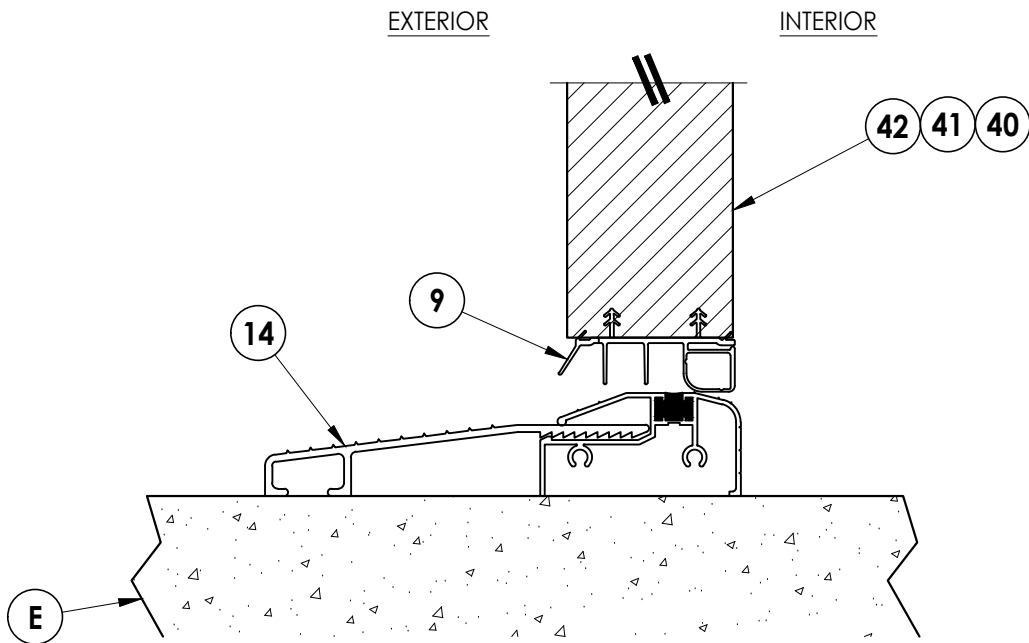
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**1**  
**5** **VERTICAL CROSS SECTION**  
Shown w/ 2X Buck  
Outswing shown (Inswing similar)



**2**  
**5** **VERTICAL CROSS SECTION**  
Outswing configuration



**3**  
**5** **VERTICAL CROSS SECTION**  
Inswing configuration

Documents Prepared By:  
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P.E. No. 43409

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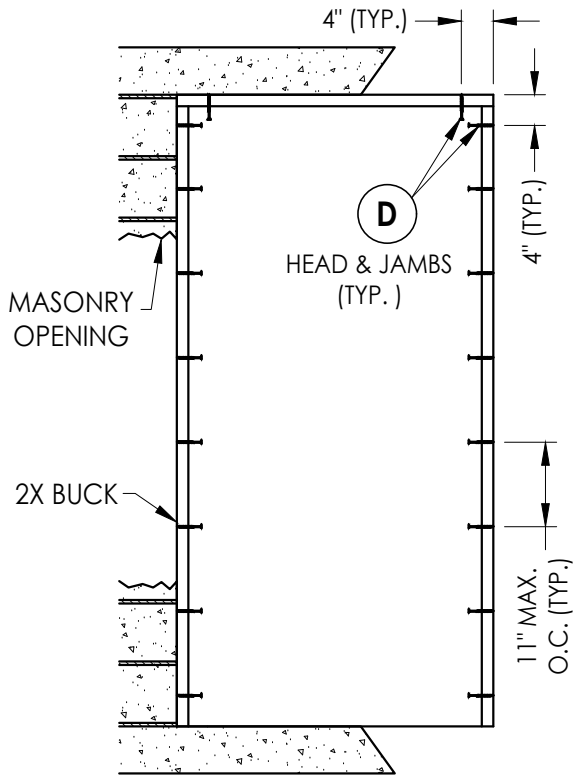
PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
VERTICAL  
CROSS SECTIONS

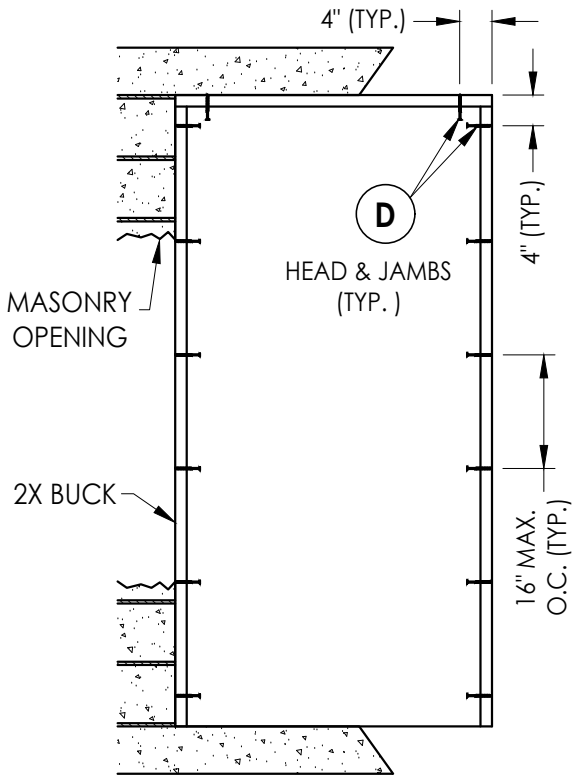
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DATE: 7/25/19  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: FL-21138.18  
SHEET 5 OF 7

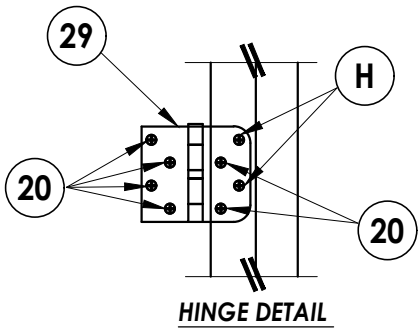
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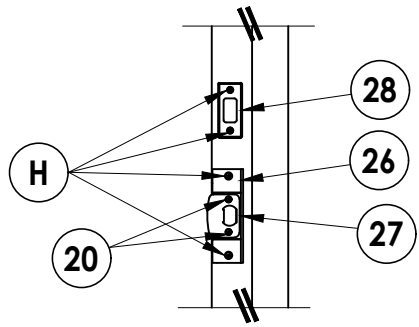
**BUCK ANCHORING**  
Max. Design Pressure = 100 PSF



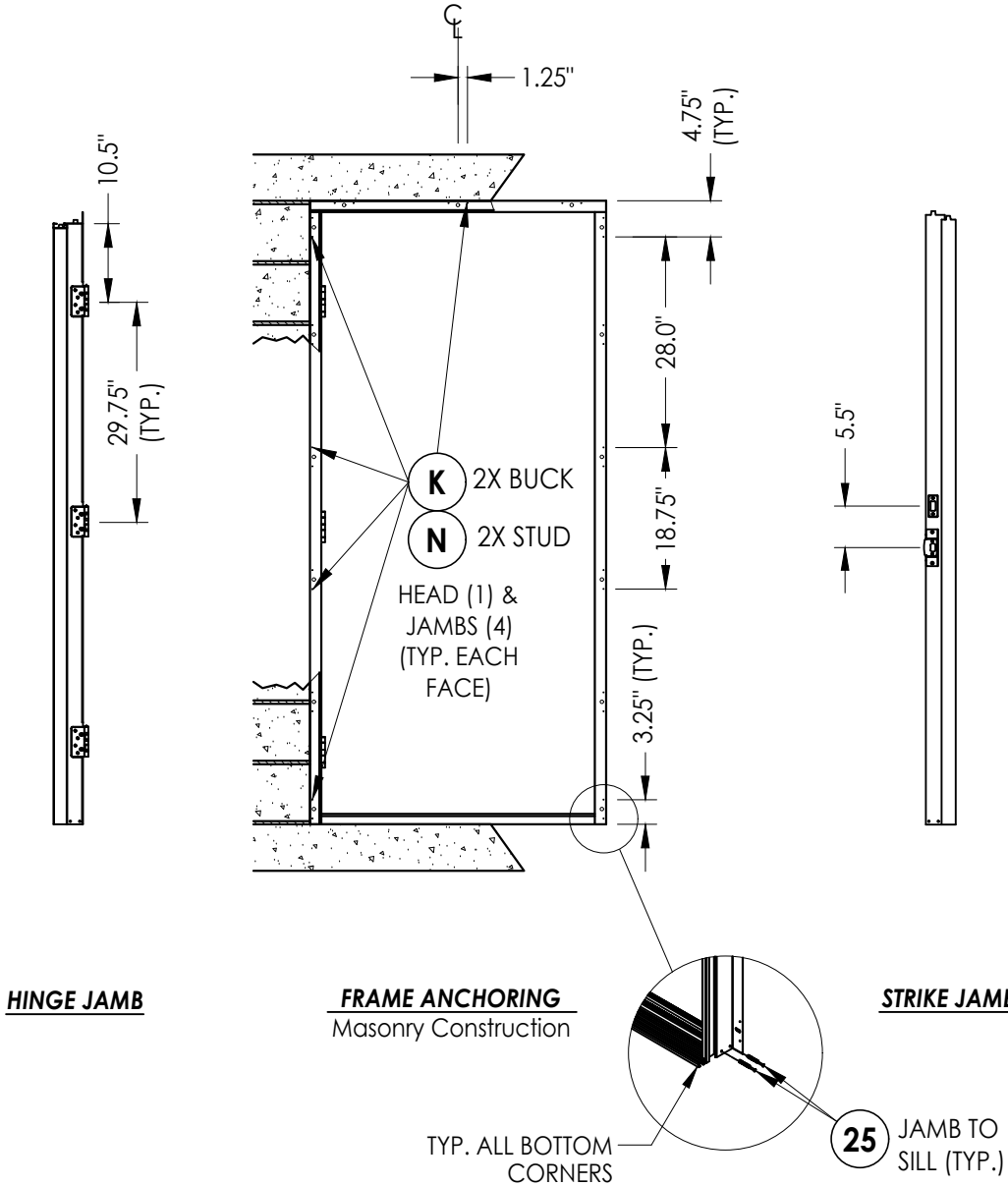
**BUCK ANCHORING**  
Max. Design Pressure = 60 PSF



**HINGE DETAIL**



**LATCH & DEADBOLT DETAIL**



**HINGE JAMB**

**FRAME ANCHORING**  
Masonry Construction

**STRIKE JAMB**

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

|              |             |
|--------------|-------------|
| DATE:        | 7/25/19     |
| SCALE:       | N.T.S.      |
| DWG. BY:     | RW          |
| CHK. BY:     | LFS         |
| DRAWING NO.: | FL-21138.18 |
| SHEET        | 6 OF 7      |

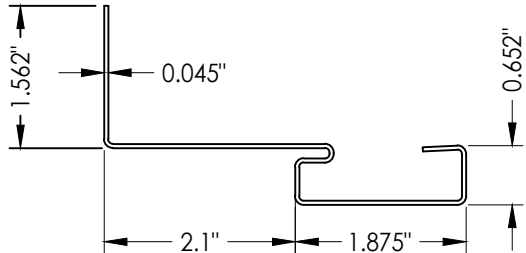
|                   |                               |
|-------------------|-------------------------------|
| PRODUCT:          | THERMA-TRU<br>FIBERGLASS DOOR |
| PART OR ASSEMBLY: | BUCK & FRAME ANCHORING        |

|                        |                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| Documents Prepared By: | 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 |

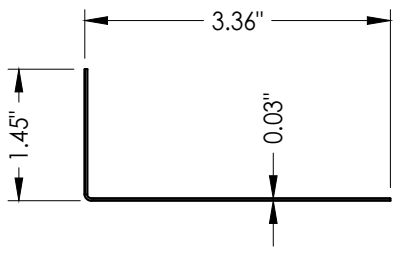
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| BILL OF MATERIALS |                                                                                                |          |
|-------------------|------------------------------------------------------------------------------------------------|----------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL |
| A                 | 2X STUD (SG >= 0.42)                                                                           | WOOD     |
| B                 | 2X BUCK (SG >= 0.42)                                                                           | WOOD     |
| D                 | 1/4" X 2-3/4" PFH 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 |
| H                 | #10 X 1-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)                                             | STEEL    |
| K                 | #8 X 1-1/4" PPH WOOD SCREW (1.15" MIN. EMBEDMENT)                                              | STEEL    |
| N                 | 8d X 2-1/2" COMMON NAIL (1.75" MIN. EMBEDMENT)                                                 | STEEL    |
| 1                 | FRAME                                                                                          | STEEL    |
| 2                 | FRAME CLOSER                                                                                   | STEEL    |
| 6                 | WEATHERSTRIP (MEDIUM REACH)                                                                    | FOAM     |
| 7                 | WEATHERSTRIP (LONG REACH)                                                                      | FOAM     |
| 8                 | SWEEP                                                                                          | VINYL    |
| 9                 | SWEEP                                                                                          | VINYL    |
| 12                | PUBLIC ACCESS THRESHOLD                                                                        | ALUM     |
| 14                | INSWING THRESHOLD                                                                              | ALUM     |
| 20                | #10 x 1/2" THREAD CUTTING MACHINE SCREW                                                        | STEEL    |
| 24                | #10 x 1" PFH WOOD SCREW                                                                        | STEEL    |

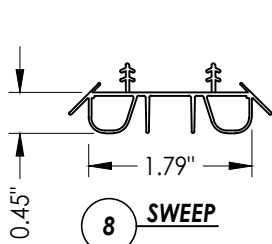
| BILL OF MATERIALS |                            |          |
|-------------------|----------------------------|----------|
| ITEM #            | DESCRIPTION                | MATERIAL |
| 25                | #8 x 2-1/2" PFH WOOD SCREW | STEEL    |
| 26                | LATCH ADAPTOR              | STEEL    |
| 27                | LATCH STRIKE PLATE         | STEEL    |
| 28                | DEADBOLT STRIKE PLATE      | STEEL    |
| 29                | 4" X 4" HINGE              | STEEL    |
| 40                | DOOR PANEL (BOOK)          | -        |
| 41                | DOOR PANEL (HYBRID)        | -        |
| 42                | DOOR PANEL (U1)            | -        |



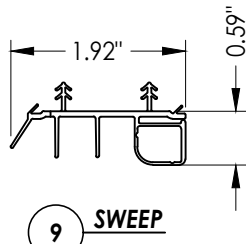
1 STEEL FRAME



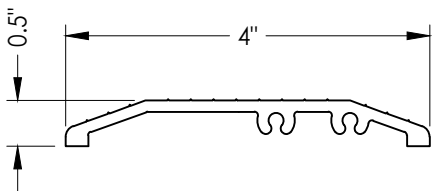
2 STEEL FRAME Closer



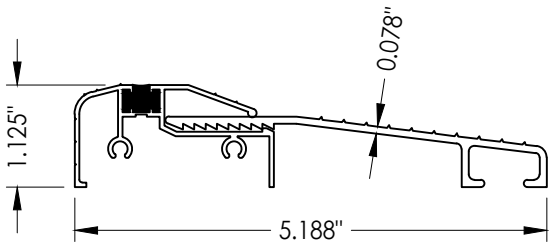
8 SWEEP



9 SWEEP



12 PUBLIC ACCESS THRESHOLD



14 INSWING THRESHOLD

CORROSION RESISTANCE - SALTWATER ENVIRONMENTS  
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

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"         | AS SHOWN                       | 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

PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
BILL OF MATERIALS  
AND COMPONENTS

**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
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|  |  | REVISIONS |         |
|--|--|-----------|---------|
|  |  | NO        | DATE    |
|  |  | 3         | 7/02/26 |
|  |  | 2         | 8/22/23 |
|  |  | 1         | 7/15/20 |

DATE: 7/25/19

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:  
FL-21138.18

SHEET 7 OF 7