



"Saffire EVO LX-M" SERIES  
"Saffire EVO LZ-M" SERIES  
"Saffire EVO VR-M" SERIES  
ELECTRONIC MORTISE LOCKS  
"IMPACT"

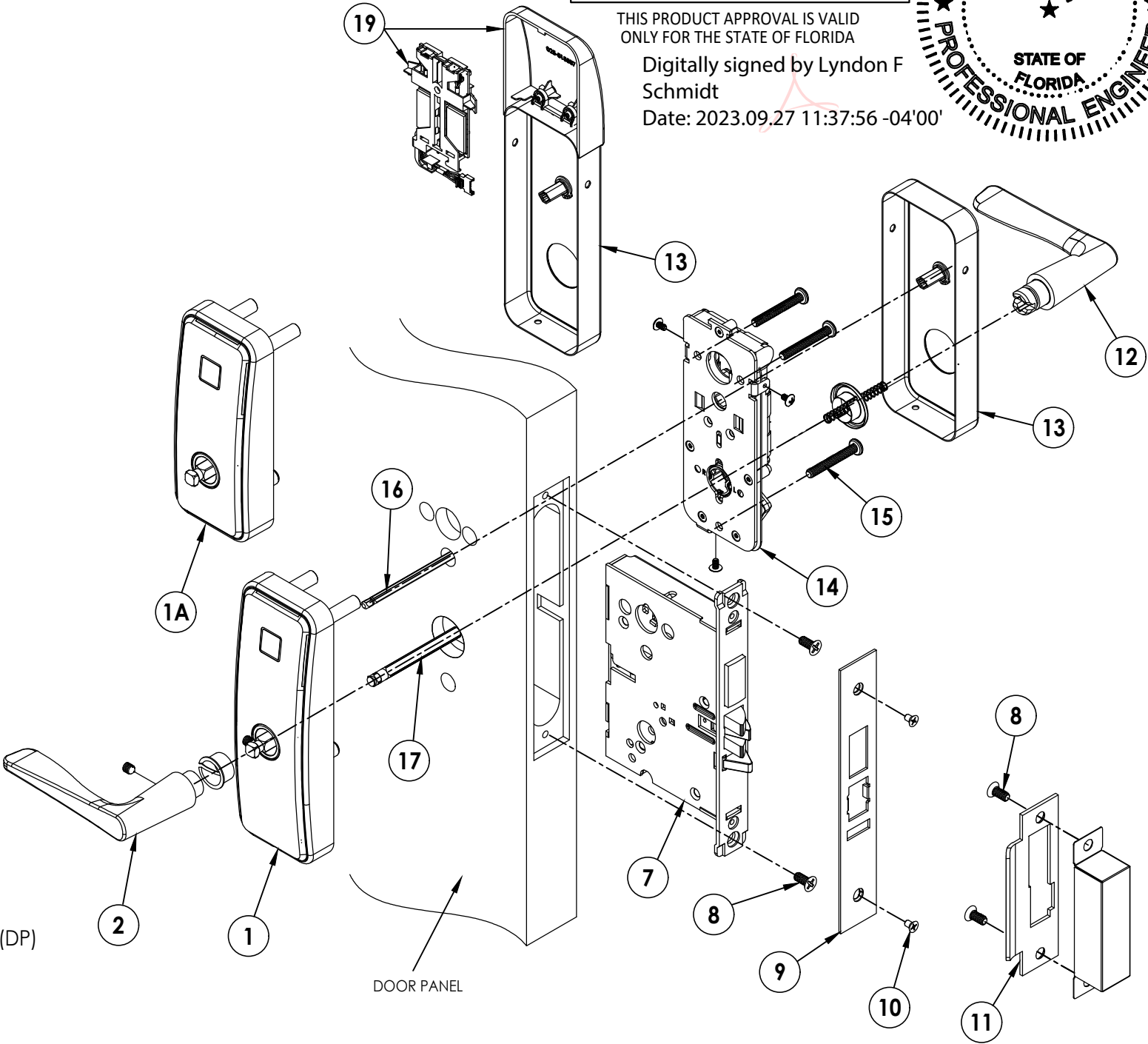
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. This product has been tested in the door panels as specified in this approval. Substitution into a similar product may be approved for use by the local Authority Having Jurisdiction. In all cases, the steel 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 steel side hinged swing door approval being used.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

| TABLE OF CONTENTS |                                                  |
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| SHEET #           | DESCRIPTION                                      |
| 1                 | Lock details, design pressures and general notes |
| 2                 | Door panel details                               |
| 3                 | Horizontal and vertical cross sections           |
| 4                 | Buck and frame anchoring                         |
| 5                 | Bill of materials and components                 |

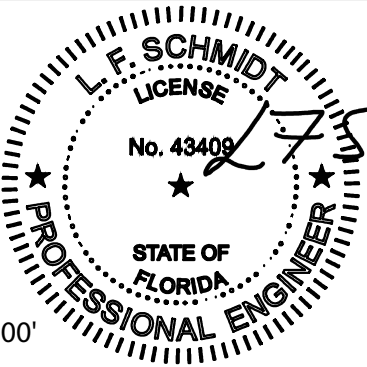
| MAX<br>FRAME<br>DIMENSION | LOCK TYPE                                  | DOOR<br>PANEL          | DESIGN PRESSURE (PSF) |          |          |          |
|---------------------------|--------------------------------------------|------------------------|-----------------------|----------|----------|----------|
|                           |                                            |                        | INSWING               |          | OUTSWING |          |
|                           |                                            |                        | POSITIVE              | NEGATIVE | POSITIVE | NEGATIVE |
| 39" x 85"                 | "Saffire LX"<br>ELECTRONIC<br>MORTISE LOCK | TRU-TECH<br>STEEL DOOR | +60.0                 | -65.0    | +65.0    | -65.0    |

Note: The outswing unit requires the use of the automatic deadbolt option.



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.

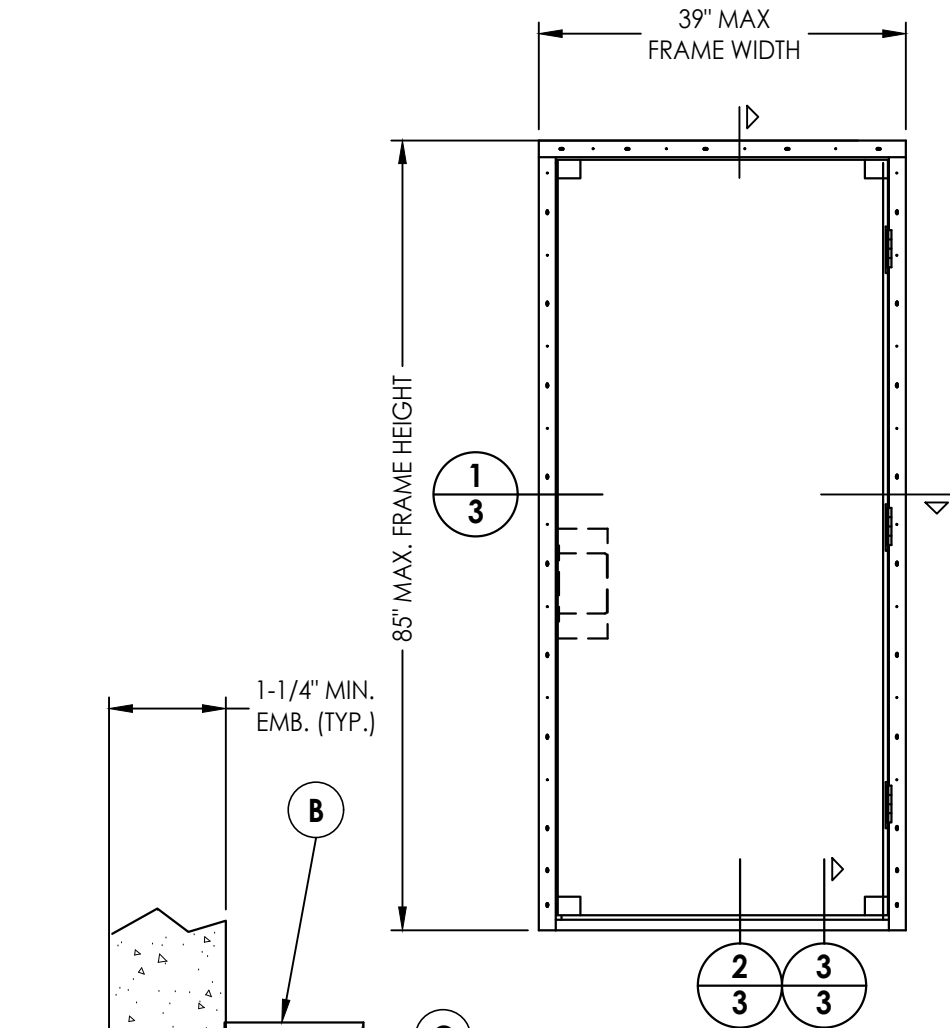
THIS PRODUCT APPROVAL IS VALID  
ONLY FOR THE STATE OF FLORIDA  
Digitally signed by Lyndon F  
Schmidt  
Date: 2023.09.27 11:37:56 -04'00'



|                                                               |  |                                                                                                                    |         |                              |     |
|---------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|---------|------------------------------|-----|
| 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>dormakaba                                     |  | PART OR ASSEMBLY:<br><br>LOCK DETAILS, DESIGN PRESSURES<br>AND GENERAL NOTES                                       |         |                              |     |
|                                                               |  | 3                                                                                                                  | 8/31/23 | UPDATE TO 8TH ED. (2023) FBC | LFS |
|                                                               |  | 2                                                                                                                  | 4/13/23 | REVISE SERIES PRODUCT NAME   | LFS |
|                                                               |  | 1                                                                                                                  | 9/28/20 | UPDATE TO 7TH ED. (2020) FBC | LFS |
|                                                               |  | NO.                                                                                                                | DATE    |                              | BY  |
| REVISIONS                                                     |  |                                                                                                                    |         |                              |     |
| DATE: 2/21/19                                                 |  |                                                                                                                    |         |                              |     |
| SCALE: N.T.S.                                                 |  |                                                                                                                    |         |                              |     |
| DWG. BY: JK                                                   |  |                                                                                                                    |         |                              |     |
| CHK. BY: LFS                                                  |  |                                                                                                                    |         |                              |     |
| DRAWING NO.:<br>FL-13061.10                                   |  |                                                                                                                    |         |                              |     |
| SHEET 1 OF 5                                                  |  |                                                                                                                    |         |                              |     |

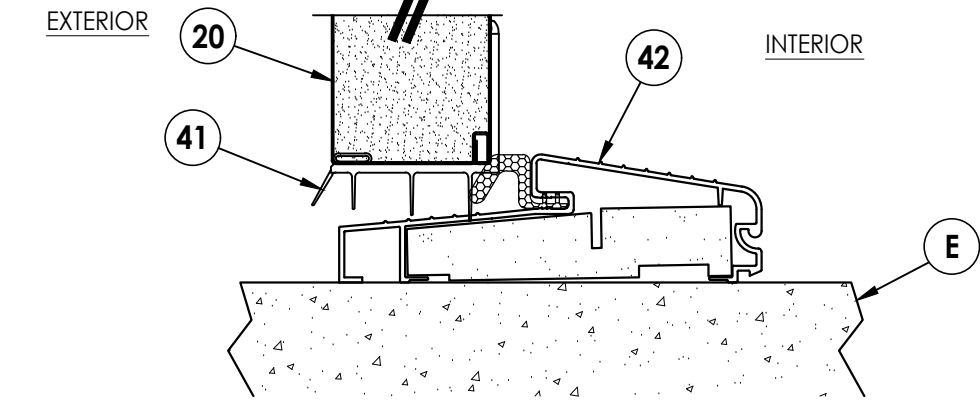
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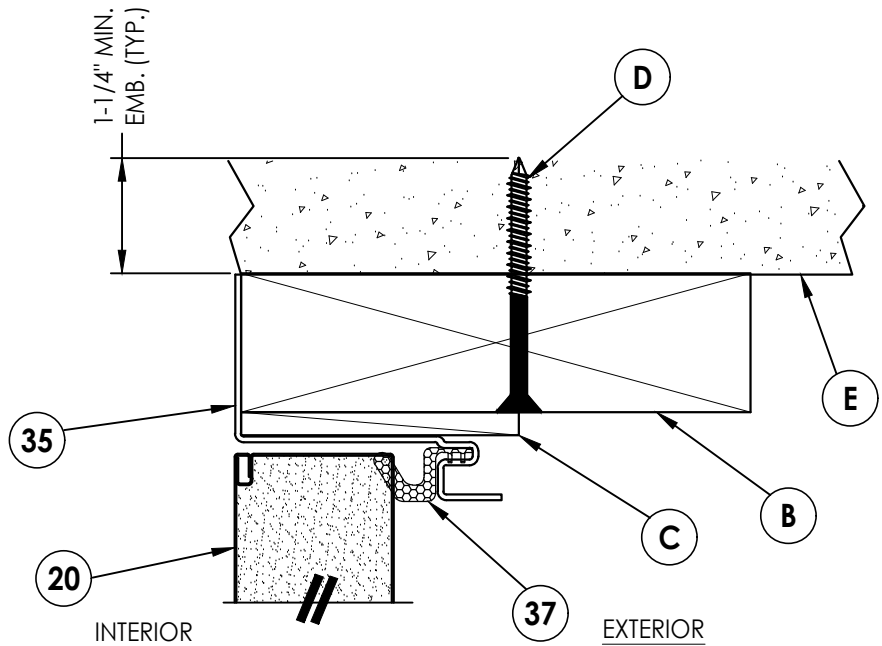
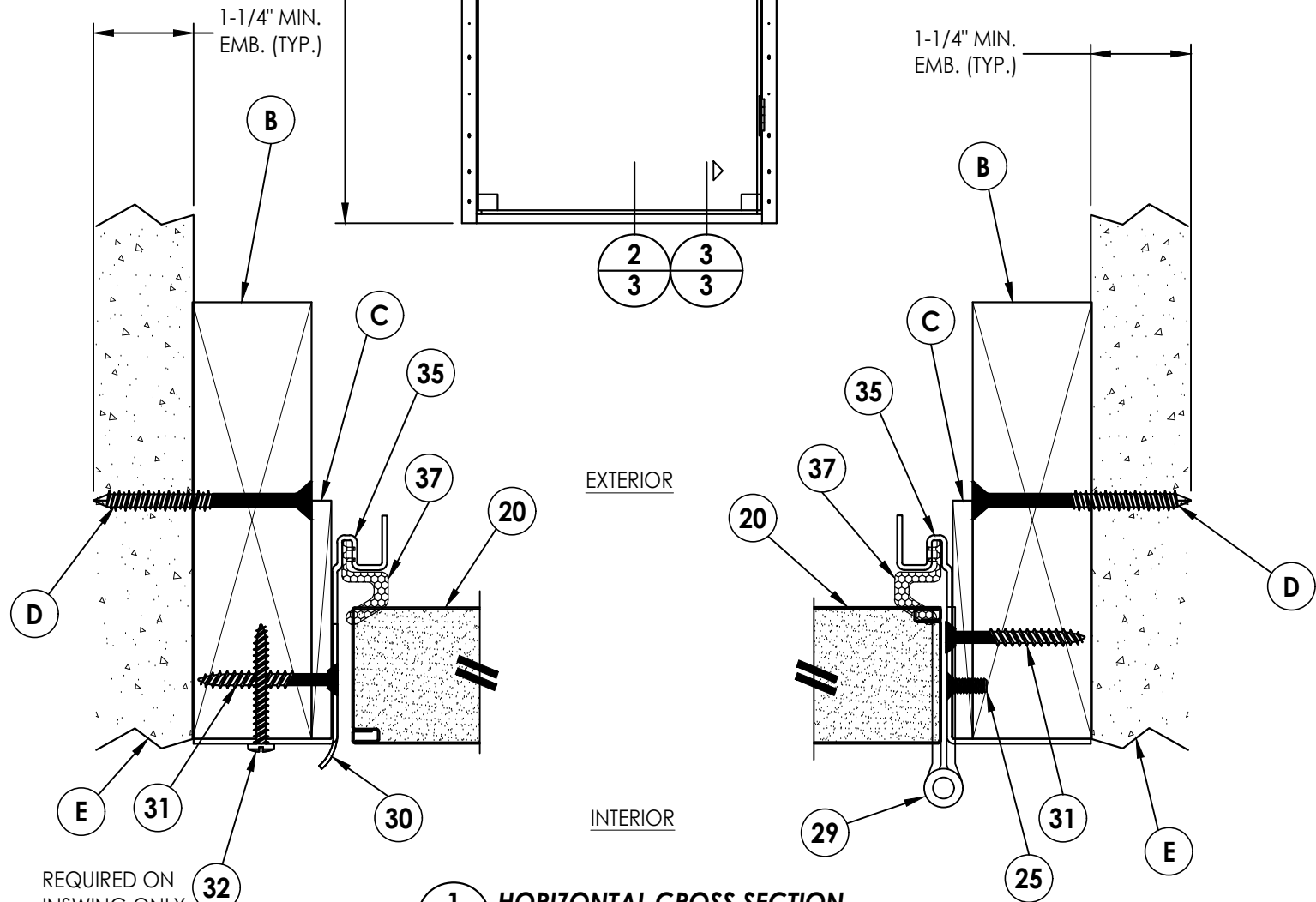


REQUIRED ON  
INSWING ONLY

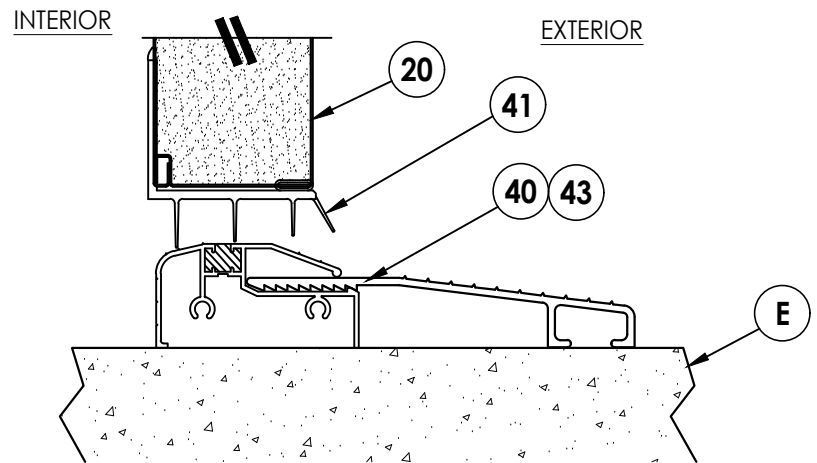
**1**  
**3** **HORIZONTAL CROSS SECTION**  
Inswing shown  
Outswing also approved



**3**  
**3** **VERTICAL CROSS SECTION**  
Outswing



**2**  
**3** **VERTICAL CROSS SECTION**  
Inswing



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: dormakaba

PART OR ASSEMBLY:  
HORIZONTAL AND VERTICAL  
CROSS SECTIONS

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 3   | 8/31/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 2   | 4/13/23 | REVISE SERIES PRODUCT NAME LFS   |
| 1   | 9/28/20 | UPDATE TO 7TH ED. (2020) FBC LFS |

DATE: 2/21/19

SCALE: N.T.S.

DWG. BY: JK

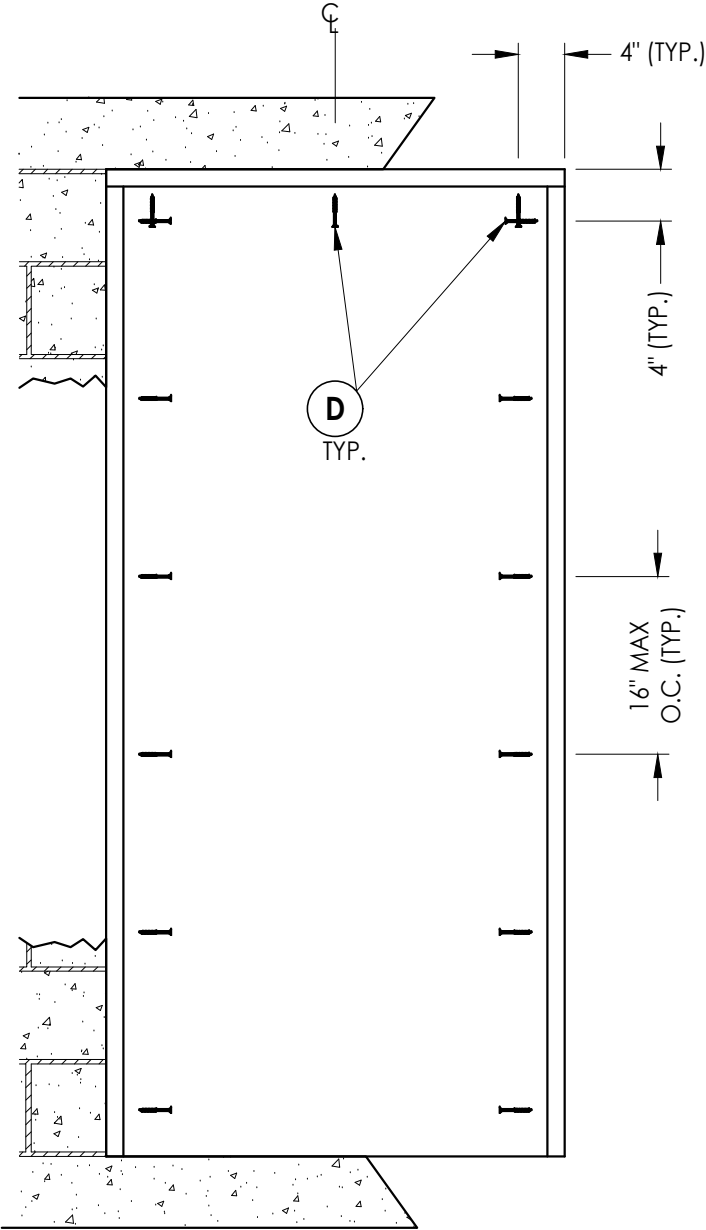
CHK. BY: LFS

DRAWING NO.:

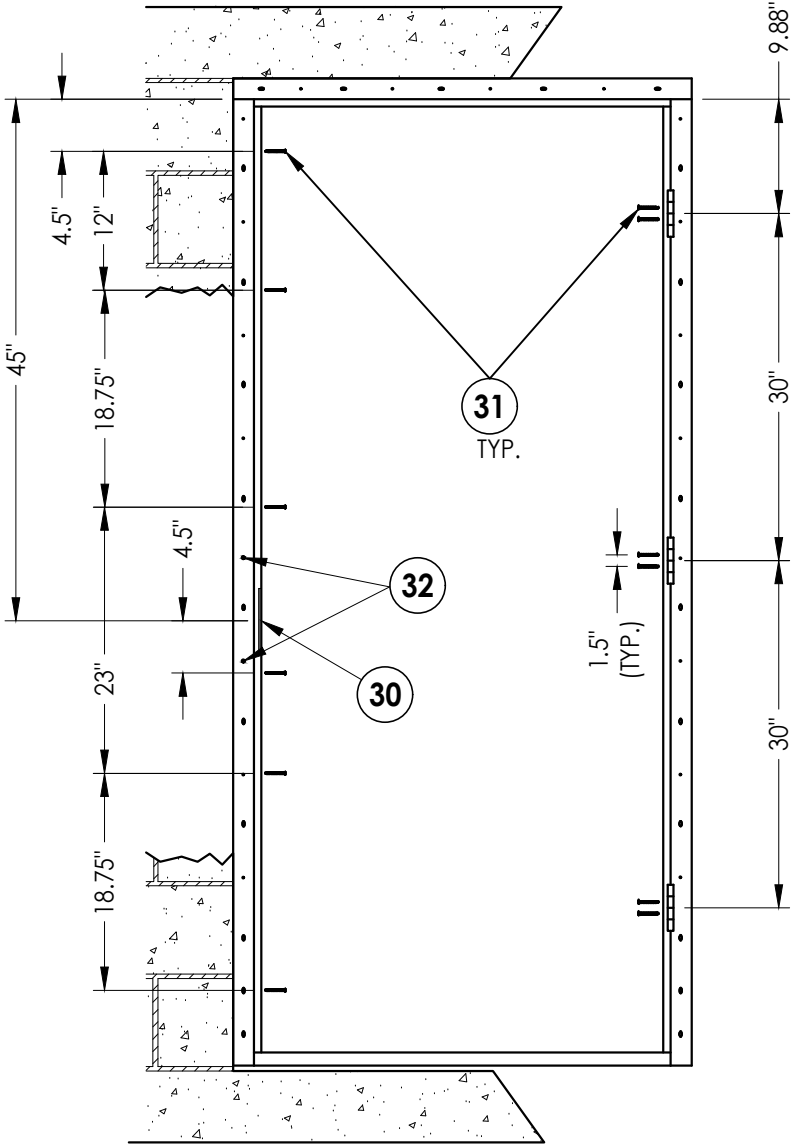
FL-13061.10

SHEET 3 OF 5

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BUCK ANCHORING



FRAME ANCHORING

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"                                |

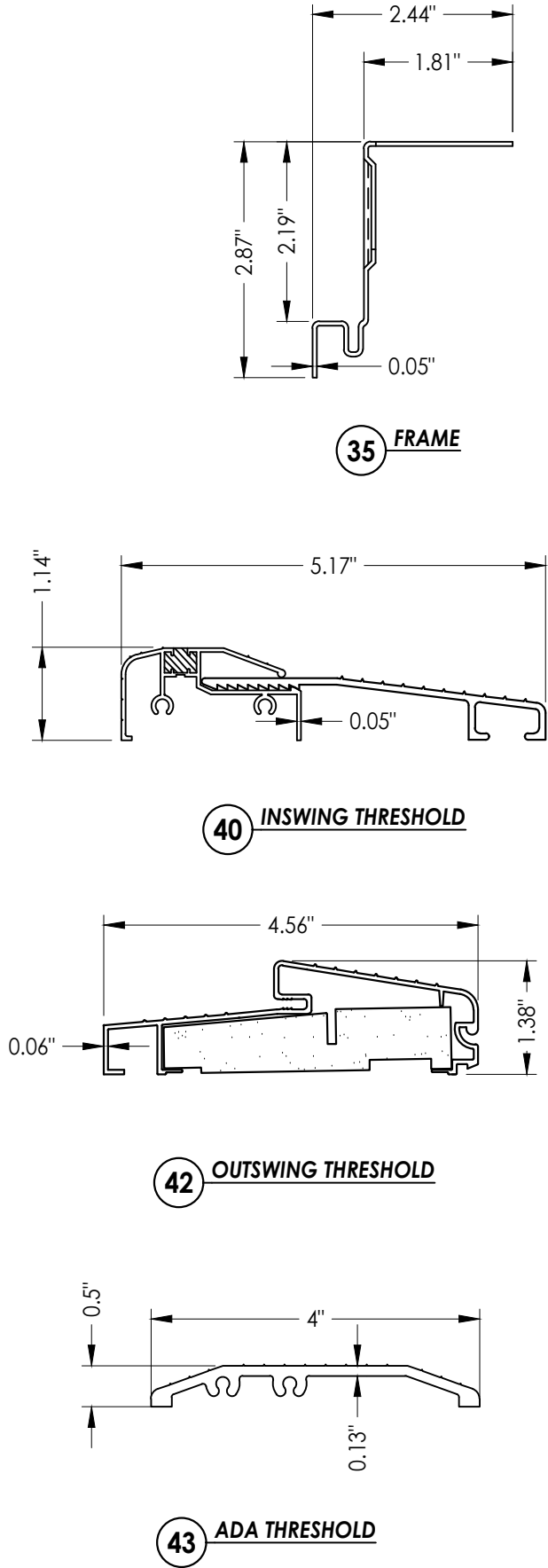
WOOD SCREW INSTALLATION NOTES:

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

|                                                               |  |                                                                                                                    |         |                          |              |     |
|---------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|---------|--------------------------|--------------|-----|
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| PRODUCT:<br><br>dormakaba                                     |  | PART OR ASSEMBLY:<br><br>BUCK AND FRAME<br>ANCHORING                                                               |         |                          |              |     |
|                                                               |  | 3                                                                                                                  | 8/31/23 | UPDATE TO 8TH ED. (2023) | FBC          | LFS |
|                                                               |  | 2                                                                                                                  | 4/13/23 | REVISE SERIES            | PRODUCT NAME | LFS |
|                                                               |  | 1                                                                                                                  | 9/28/20 | UPDATE TO 7TH ED. (2020) | FBC          | LFS |
|                                                               |  | NO.                                                                                                                | DATE    |                          |              | BY  |
| REVISIONS                                                     |  |                                                                                                                    |         |                          |              |     |
| DATE: 2/21/19                                                 |  |                                                                                                                    |         |                          |              |     |
| SCALE: N.T.S.                                                 |  |                                                                                                                    |         |                          |              |     |
| DWG. BY: JK                                                   |  |                                                                                                                    |         |                          |              |     |
| CHK. BY: LFS                                                  |  |                                                                                                                    |         |                          |              |     |
| DRAWING NO.:<br>FL-13061.10                                   |  |                                                                                                                    |         |                          |              |     |
| SHEET 4 OF 5                                                  |  |                                                                                                                    |         |                          |              |     |

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| BILL OF MATERIALS |                                                                                                               |                 |
|-------------------|---------------------------------------------------------------------------------------------------------------|-----------------|
| ITEM #            | DESCRIPTION                                                                                                   | MATERIAL        |
| B                 | 2X BUCK (G>= 0.55)                                                                                            | WOOD            |
| C                 | 1/4" MAX. SHIM SPACE                                                                                          | -               |
| 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 (GROUT FILLED) CONFORMING TO ASTM C90 | CONCRETE        |
| 1                 | EXTERIOR ESCUTCHEON - LONG                                                                                    | -               |
| 1A                | EXTERIOR ESCUTCHEON - SHORT (OPTIONAL)                                                                        | -               |
| 2                 | OUTSIDE LEVER HANDLE w/ KEY (OPTIONAL)                                                                        | ZAMAK 3         |
| 7                 | MORTISE LOCK BODY w/ DEADBOLT                                                                                 | STEEL           |
| 8                 | MACHINE SCREW 12-24 X 1/2" LG                                                                                 | STAINLESS STEEL |
| 9                 | MORTISE FACE PLATE                                                                                            | STAINLESS STEEL |
| 10                | MACHINE SCREW 8-32 X 1/4" LG                                                                                  | BRASS           |
| 11                | STRIKE PLATE                                                                                                  | STAINLESS STEEL |
| 12                | INSIDE LEVER HANDLE                                                                                           | ZAMAK 3         |
| 13                | INSIDE ESCUTCHEON                                                                                             | -               |
| 14                | TRIM INSIDE ASSEMBLY                                                                                          | -               |
| 15                | MACHINE SCREW 12-24                                                                                           | STEEL           |
| 16                | TURN KNOB SPINDLE                                                                                             | STEEL           |
| 17                | SQUARE SPINDLE                                                                                                | STEEL           |
| 19                | TRIM INSIDE ANTENNA (OPTIONAL)                                                                                | -               |
| 20                | TRU-TECH STEEL DOOR PANEL                                                                                     | -               |
| 21                | DOOR SKIN (0.022" THK. STEEL, Fy = 35,300 PSI MIN.)                                                           | STEEL           |
| 23                | FOAM CORE: 2.0 PCF, BAYTHERM 863                                                                              | POLYURETHANE    |
| 25                | #10-24 PFH MACHINE SCREW                                                                                      | STEEL           |
| 26                | PART "A" FOAMSTOP SK-026-B                                                                                    | POLYURETHANE    |
| 27                | PART "B" FOAMSTOP SK-026-B                                                                                    | POLYURETHANE    |
| 29                | HINGE - 4" x 4"                                                                                               | STEEL           |
| 30                | STRIKE PLATE                                                                                                  | STEEL           |
| 31                | #10 X 1-3/4" PFH WS (1-3/8" MIN. EMBEDMENT)                                                                   | STEEL           |
| 32                | #10 X 1-1/2" PPH WS (1-3/8" MIN. EMBEDMENT)                                                                   | STEEL           |
| 33                | HINGE & REINFORCEMENT                                                                                         | STEEL           |
| 35                | FRAME                                                                                                         | STEEL           |
| 37                | COMPRESSION WEATHERSTRIP (QLON)                                                                               | FOAM            |
| 40                | INSWING THRESHOLD                                                                                             | ALUM            |
| 41                | DOOR SWEEP                                                                                                    | -               |
| 42                | OUTSWING THESHOLD                                                                                             | ALUM/COMP       |
| 43                | ADA THESHOLD                                                                                                  | ALUM            |



|                                                               |         |                                                                                                                    |  |
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| PRODUCT:<br>dormakaba                                         |         | PART OR ASSEMBLY:<br>BILL OF MATERIALS<br>AND COMPONENTS                                                           |  |
|                                                               |         | LFS                                                                                                                |  |
|                                                               |         | FBC                                                                                                                |  |
| 3                                                             | 8/31/23 | UPDATE TO 8TH ED. (2023)                                                                                           |  |
| 2                                                             | 4/13/23 | REVISE SERIES PRODUCT NAME                                                                                         |  |
| 1                                                             | 9/28/20 | UPDATE TO 7TH ED. (2020)                                                                                           |  |
| NO.                                                           | DATE    |                                                                                                                    |  |
| REVISIONS                                                     |         |                                                                                                                    |  |
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| SCALE: N.T.S.                                                 |         |                                                                                                                    |  |
| DWG. BY: JK                                                   |         |                                                                                                                    |  |
| CHK. BY: LFS                                                  |         |                                                                                                                    |  |
| DRAWING NO.: FL-13061.10                                      |         |                                                                                                                    |  |
| SHEET 5 OF 5                                                  |         |                                                                                                                    |  |