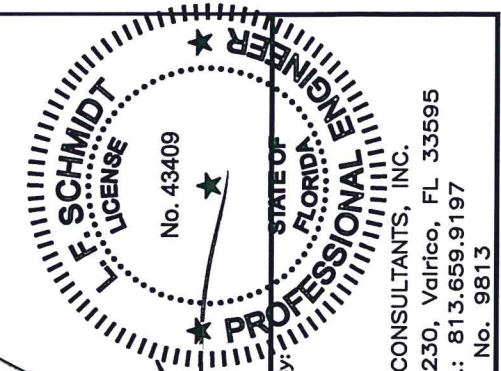
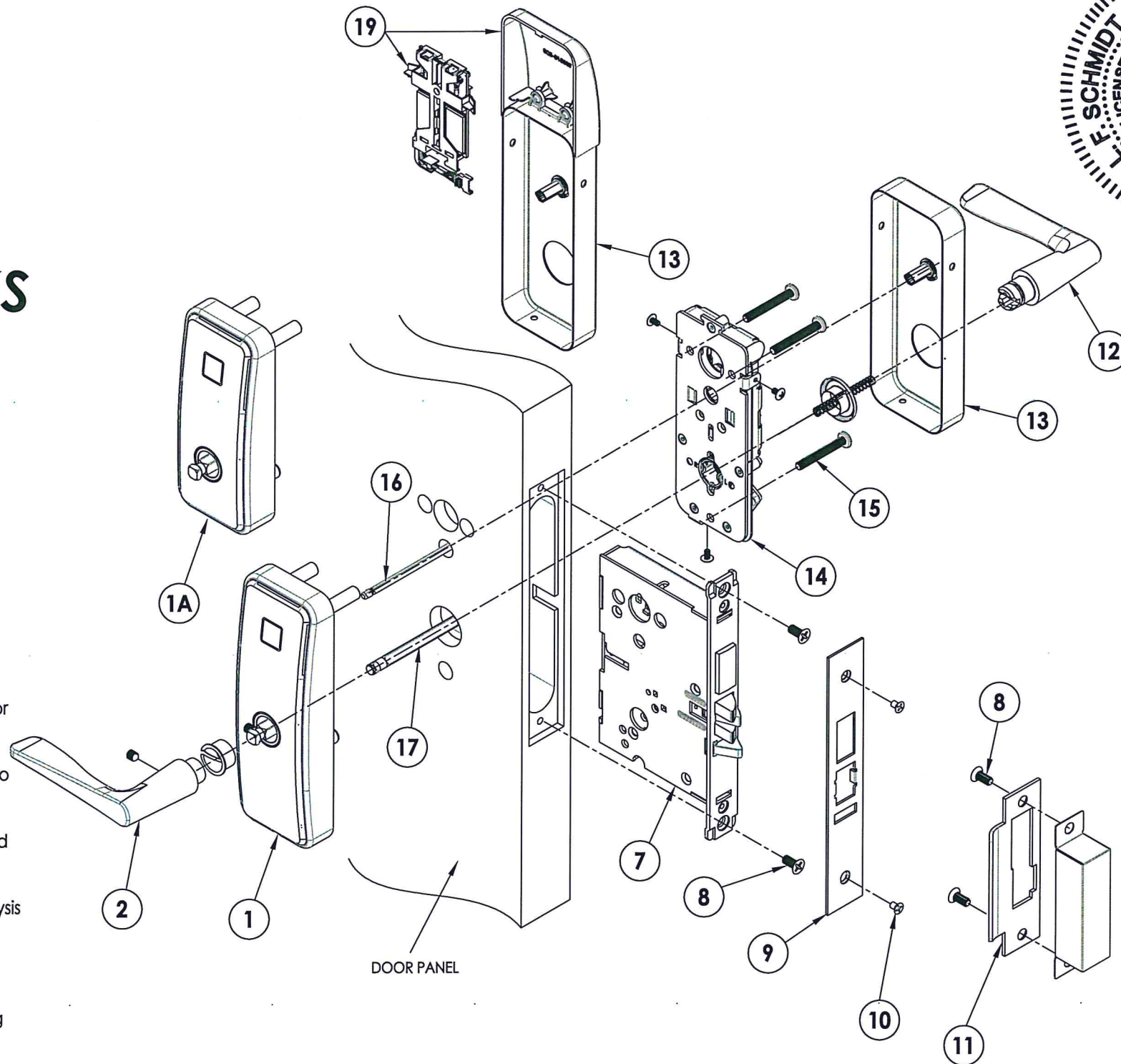




# SERIES "Saffire LX" ELECTRONIC MORTISE LOCKS "IMPACT"

### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 6th Edition (2017) Florida Building Code (FBC) structural requirements 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 Section 1626 of the FBC and does not require an impact resistant covering.
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 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.
7. Outswing configurations meet water infiltration requirements for "HVHZ".
8. Inswing configurations do not meet the water infiltration requirements for the "HVHZ". Inswing units and item #43 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.
9. All steel shall be protected as specified in Section 2222.6 of the FBC.



Documents Prepared By:  
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Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT: dormakaba

PART OR ASSEMBLY:  
LOCK DETAILS, DESIGN PRESSURES  
AND GENERAL NOTES

| NO. | DATE | BY | REVISIONS |
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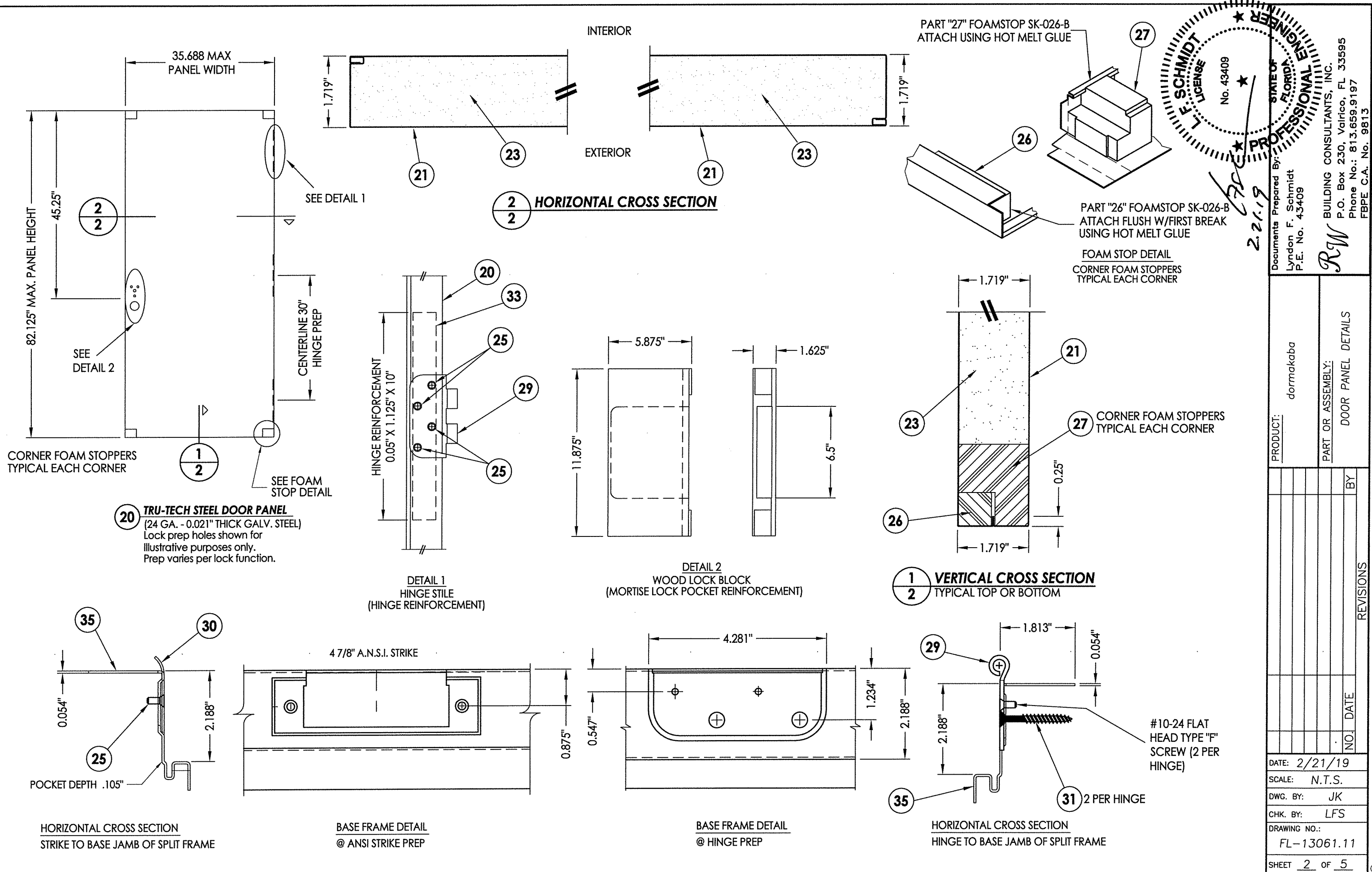
| TABLE OF CONTENTS |  |
|-------------------|--|
| SHEET #           | DESCRIPTION                                      |
| 1                 | Lock details, design pressures and general notes |
| 2                 | Door panel details                               |
| 3                 | Horizontal 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.

DATE: 2/21/19  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.:  
FL-13061.11  
SHEET 1 OF 5

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**FLORIDA PROFESSIONAL ENGINEER**  
 E. SCHMIDT  
 LICENSE No. 43409

**STATE OF FLORIDA**  
 PROFESSIONAL ENGINEER

2.21.19

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

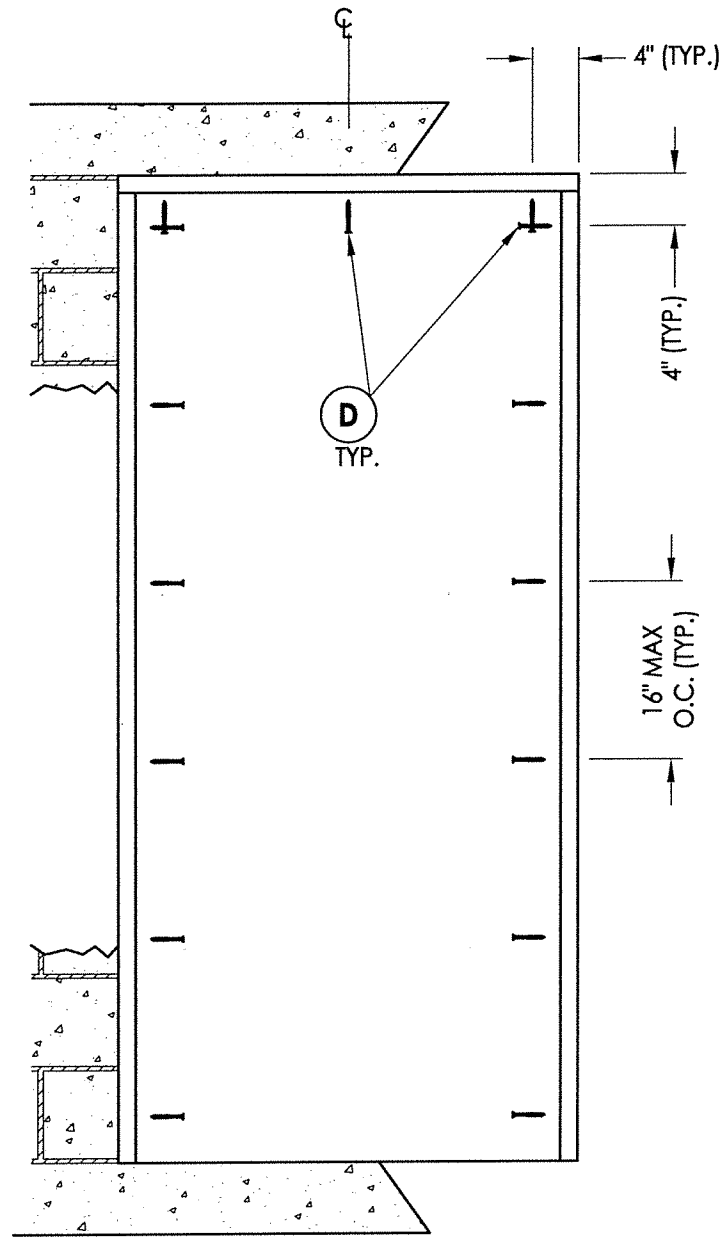
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 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE C.A. No. 9813

|                   |                    |
|-------------------|--------------------|
| PRODUCT:          | dormakaba          |
| PART OR ASSEMBLY: | DOOR PANEL DETAILS |
| NO.               | DATE               |
| BY                |                    |
| REVISIONS         |                    |
| DATE:             | 2/21/19            |
| SCALE:            | N.T.S.             |
| DWG. BY:          | JK                 |
| CHK. BY:          | LFS                |
| DRAWING NO.:      | FL-13061.11        |
| SHEET             | 2 OF 5             |

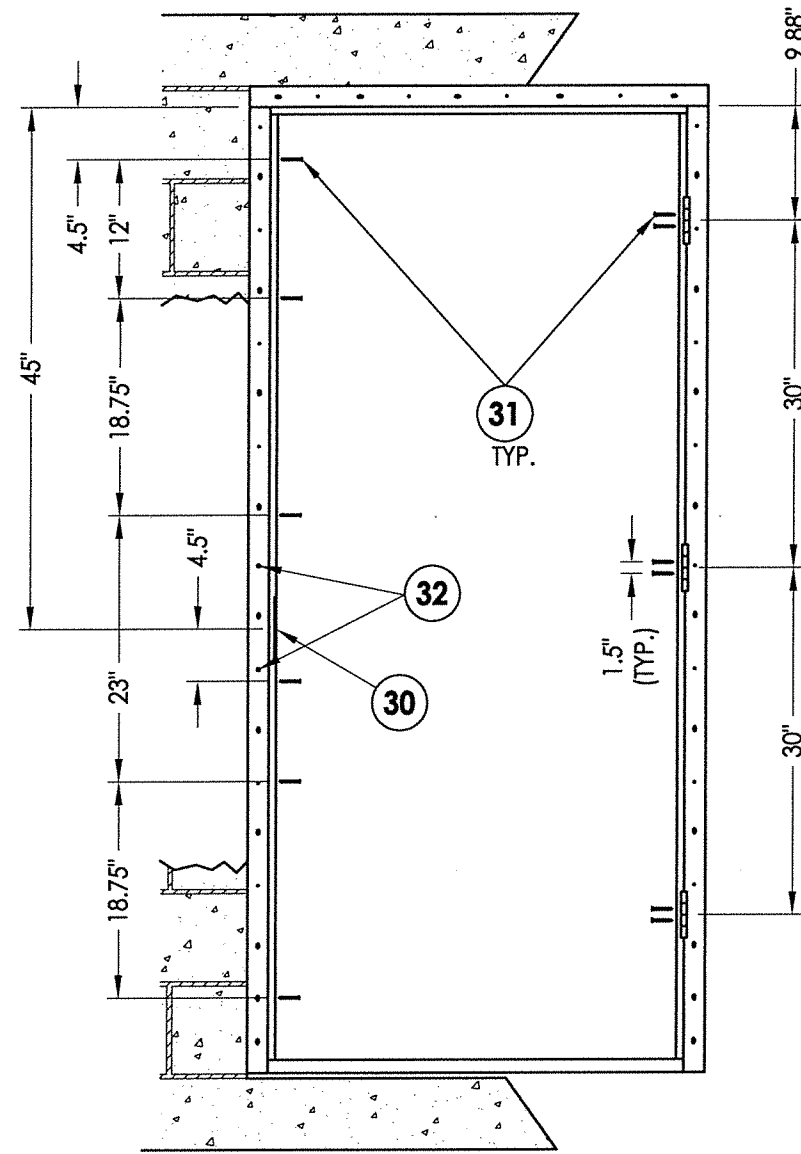
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**BUCK ANCHORING**



**FRAME ANCHORING**

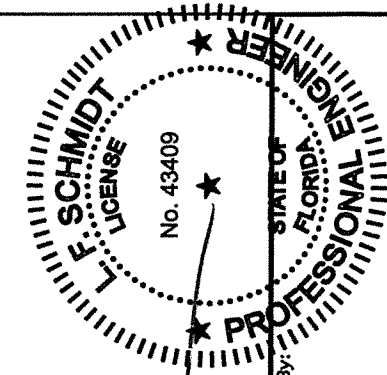
**CONCRETE ANCHOR NOTES:**

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"                                |
| ELCO ULTRACON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |

**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.



*LFS*  
2.21.19

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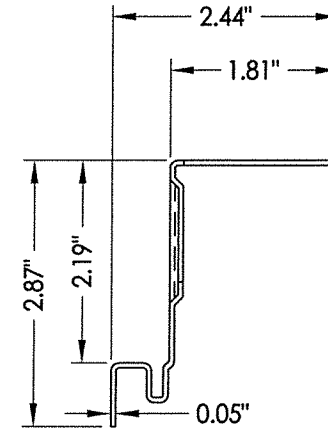
PRODUCT: dormakaba  
PART OR ASSEMBLY: BUCK AND FRAME ANCHORING

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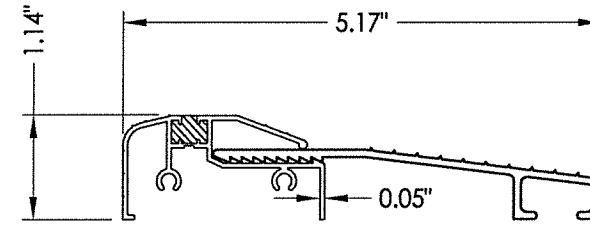
DATE: 2/21/19  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-13061.11  
SHEET 4 OF 5

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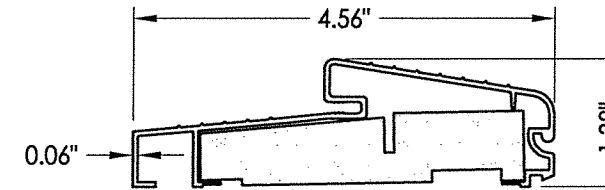
| BILL OF MATERIALS |   |                 |
|-------------------|---|-----------------|
| ITEM #            | DESCRIPTION   | MATERIAL        |
| B                 | 2X BUCK (G>= 0.55)  | WOOD            |
| C                 | 1/4" MAX. SHIM SPACE  | -               |
| D                 | 1/4" X 2-3/4" PFH ELCO 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 THRESHOLD  | ALUM/COMP       |
| 43                | ADA THRESHOLD   | ALUM            |



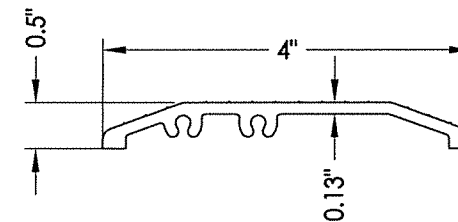
35 FRAME



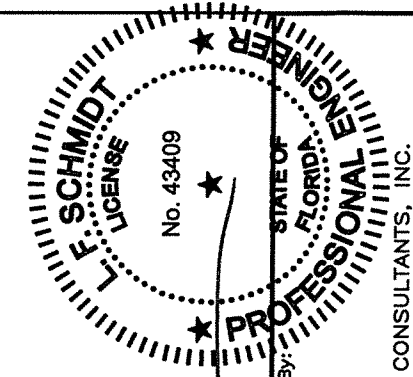
40 INSWING THRESHOLD



42 OUTSWING THRESHOLD



43 ADA THRESHOLD



*LFS*  
2-21-19

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Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT: dormakaba  
PART OR ASSEMBLY: BILL OF MATERIALS AND COMPONENTS

| NO. | DATE | BY | REVISIONS |
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DATE: 2/21/19  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-13061.11  
SHEET 5 OF 5