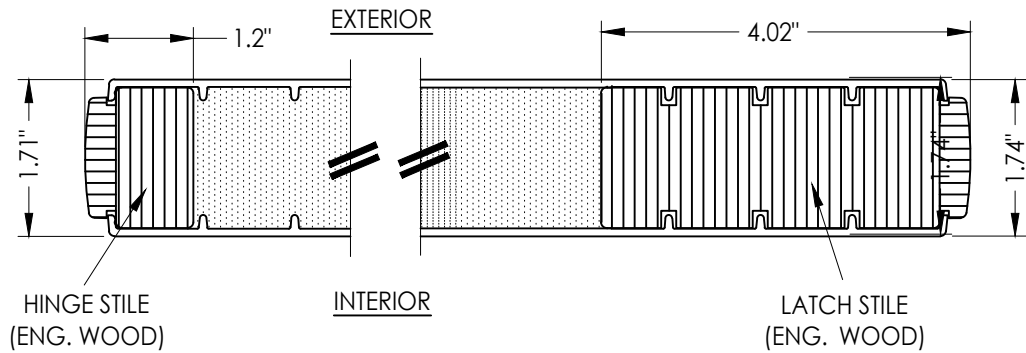
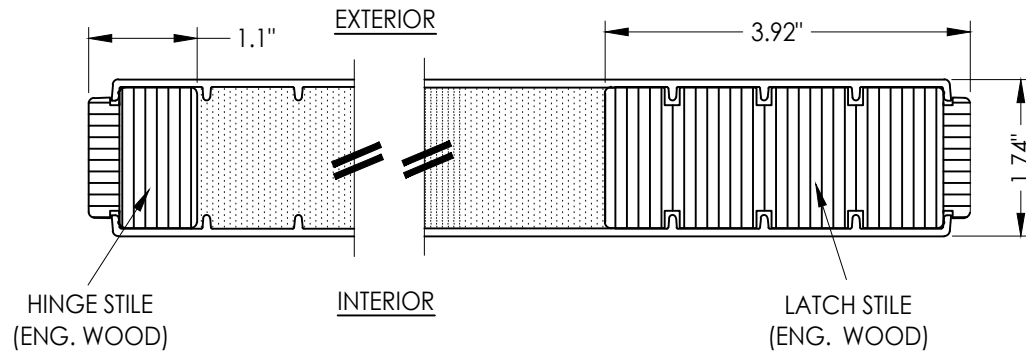




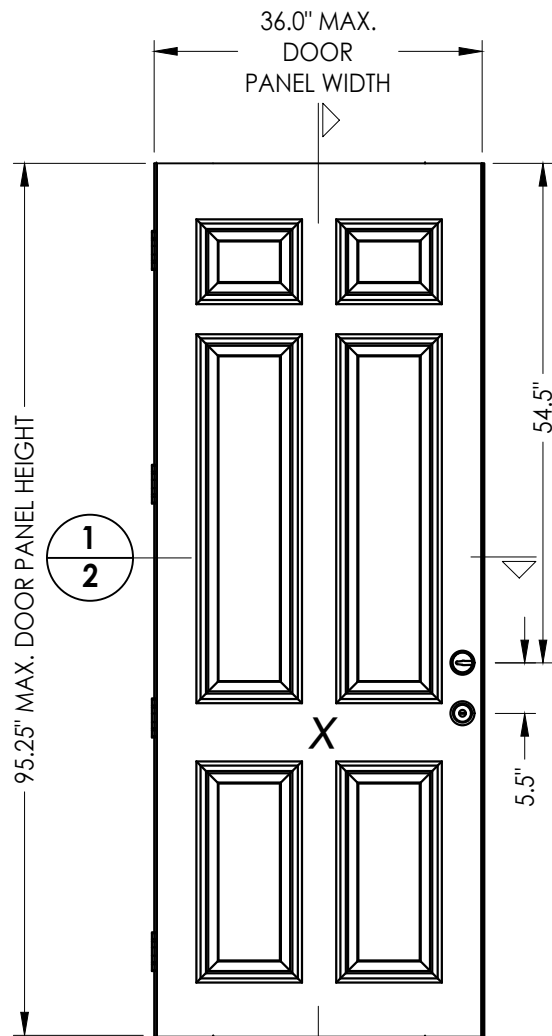
G:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-21138 R8\FL-21138.16.dwg



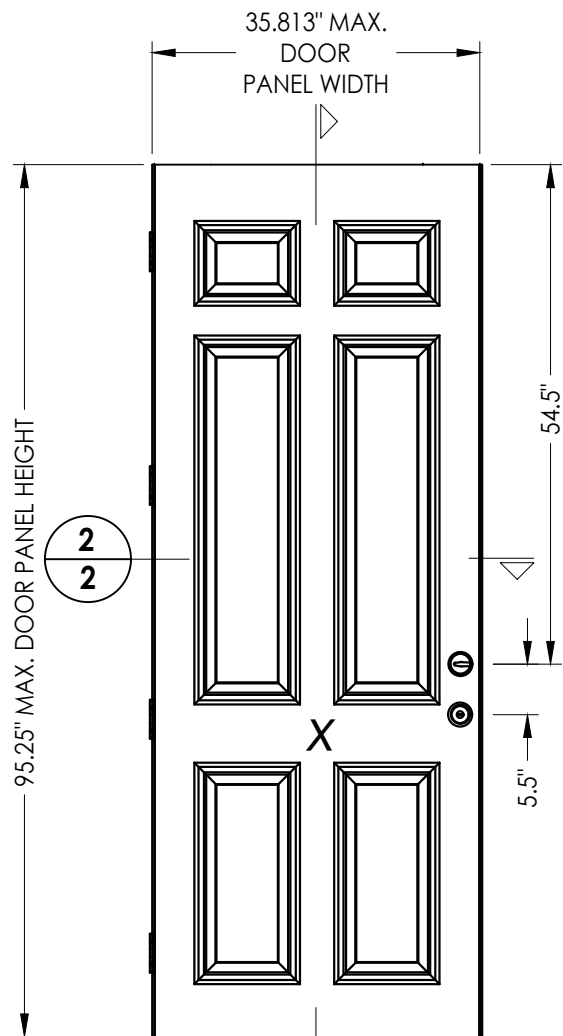
1  
2 **HORIZONTAL CROSS SECTION**



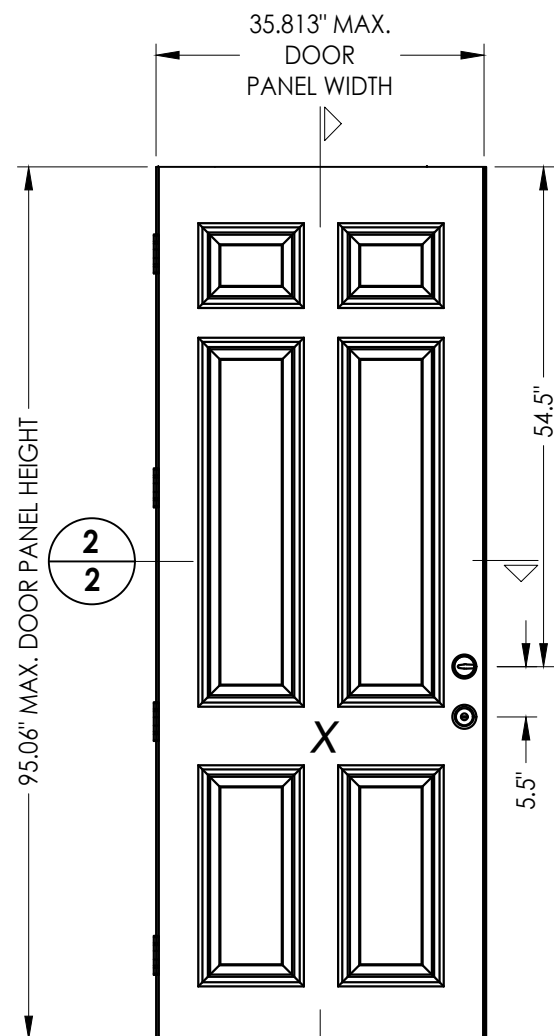
2  
2 **HORIZONTAL CROSS SECTION**



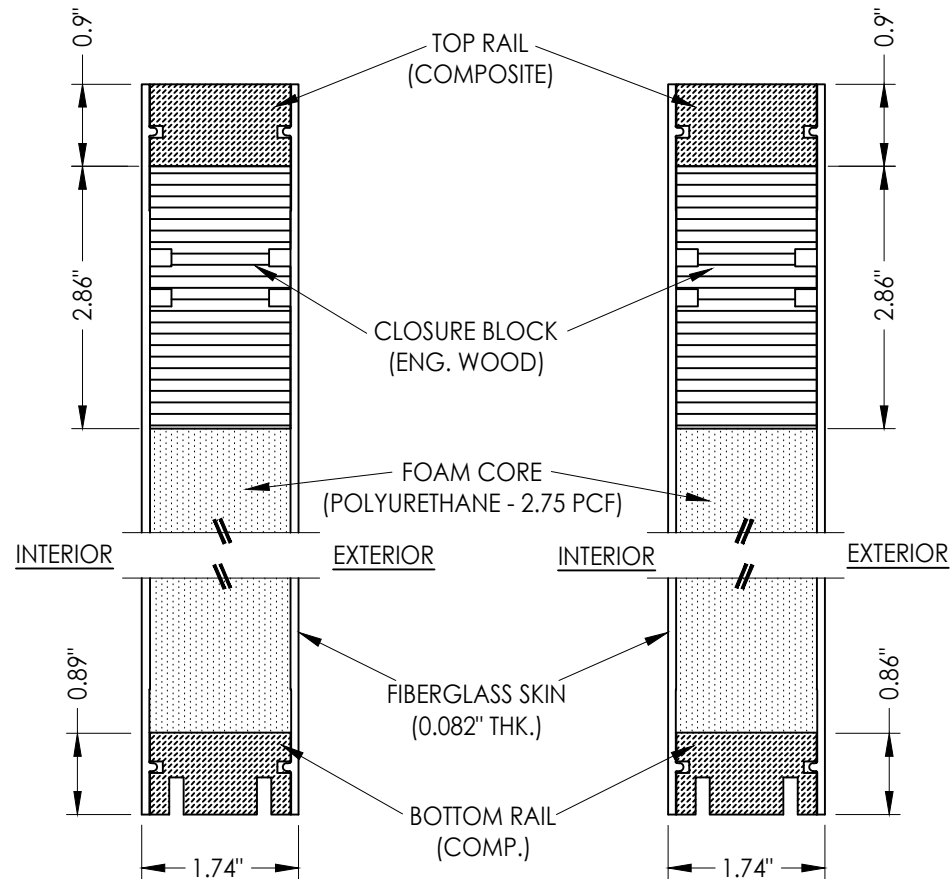
3  
2 **DOOR PANEL**  
Book



3  
2 **DOOR PANEL**  
Hybrid Door



4  
2 **DOOR PANEL**  
U1 Door



3  
2 **VERTICAL CROSS SECTION**

4  
2 **VERTICAL CROSS SECTION**

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

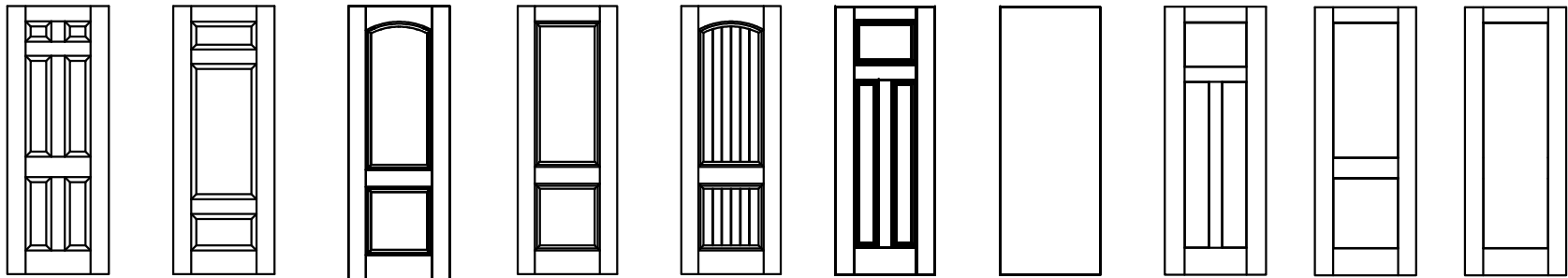
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
DOOR PANEL DETAILS

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
| 2   | 8/22/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 1   | 7/16/20 | UPDATE TO 7th ED (2020) FBC PO   |

DATE: 7/25/19  
SCALE: N.T.S.  
DWG. BY: RW  
CHK. BY: LFS  
DRAWING NO.: FL-21138.16  
SHEET 2 OF 10



| HARDWARE TABLE |                                                            |  |
|----------------|------------------------------------------------------------|--|
| MANUFACTURER   | MODEL                                                      |  |
| KWIKSET        | KNOB: SIGNATURE SERIES<br>DEADBOLT: SIGNATURE SERIES (980) |  |
| SCHLAGE        | KNOB: "F" SERIES<br>DEADBOLT: "B" SERIES (B60)             |  |

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

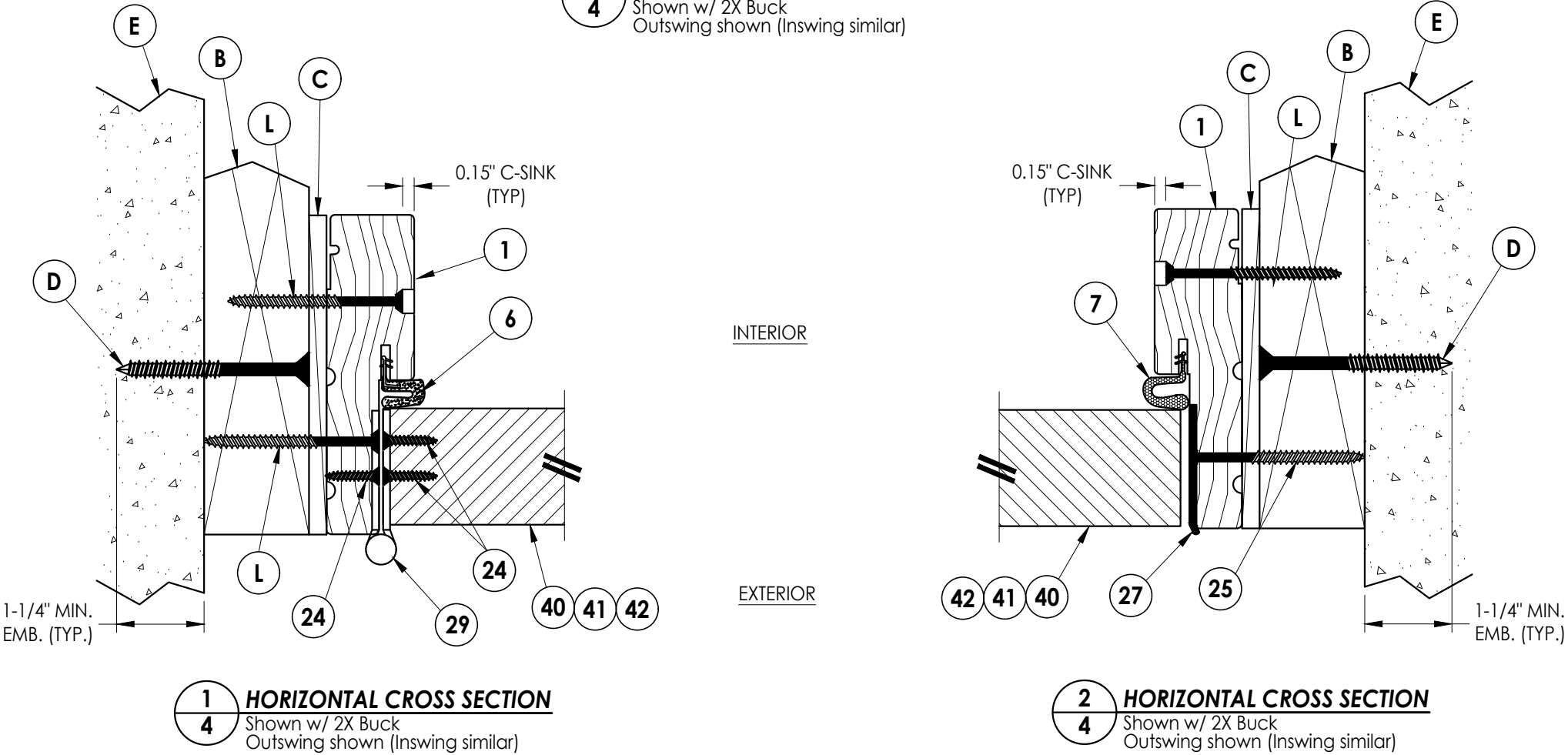
Products approved include all embossed and recessed panel doors.  
Similar opaque panel configurations are allowed.  
Panels shown are for illustration and are representative only.

[illegible]

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

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

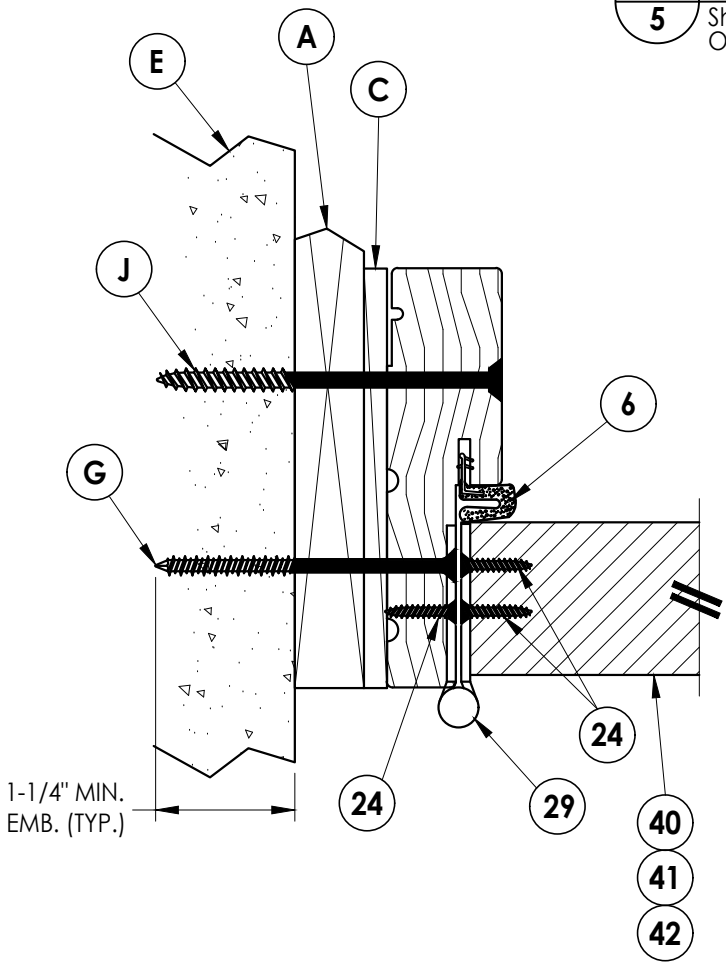
© 2019 R.W. BUILDING CONSULTANTS INC.

[illegible]

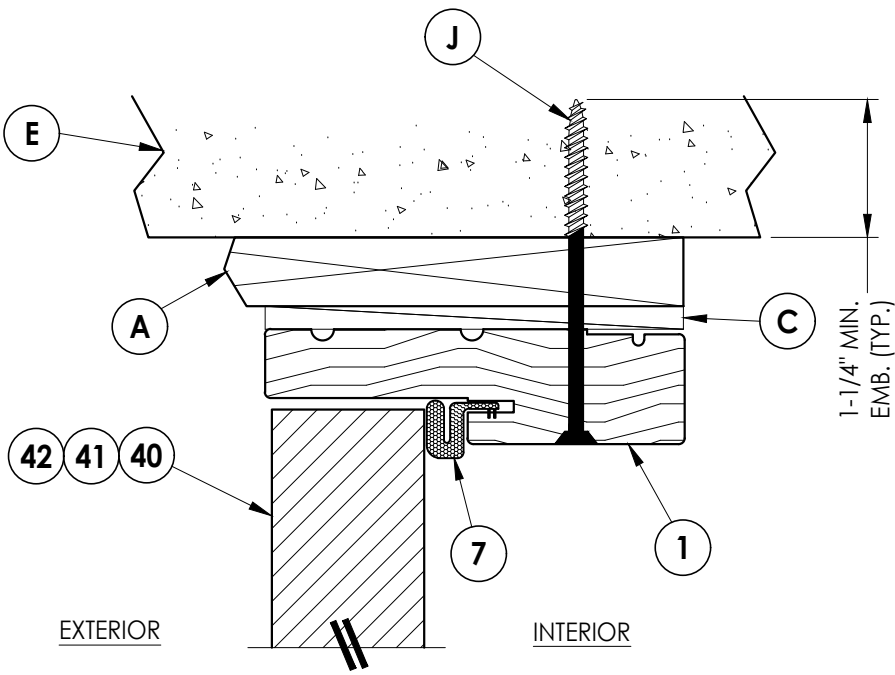
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

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

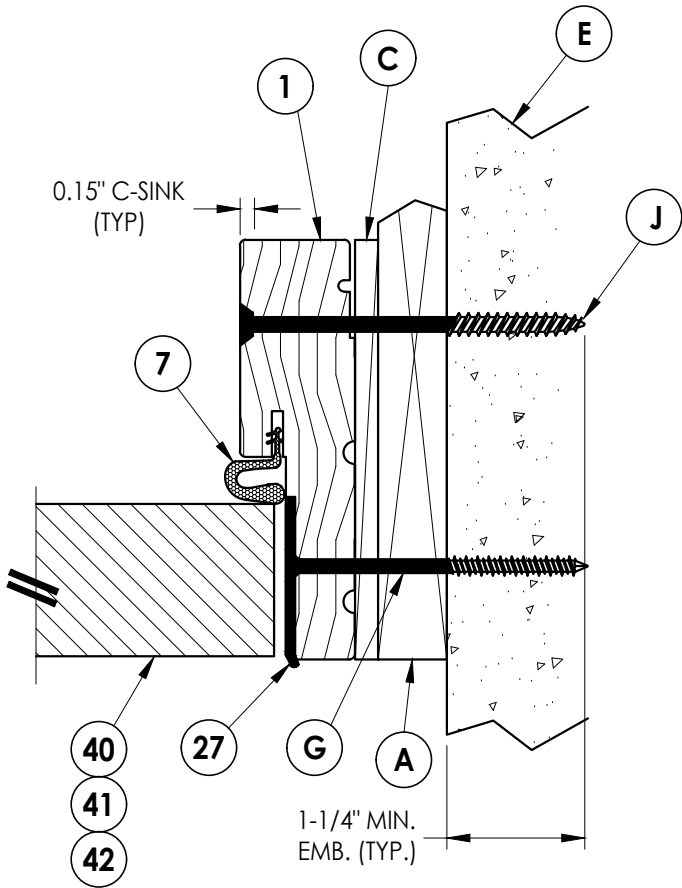
G:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-21138 R8\FL-21138.16.dwg



**1**  
**5** **HORIZONTAL CROSS SECTION**  
Shown w/ 1X sub-buck  
Outswing shown (Inswing similar)



**3**  
**5** **VERTICAL CROSS SECTION**  
Shown w/ 1X sub-buck  
Outswing shown (Inswing similar)



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

DATE: 7/25/19

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-21138.16

SHEET 5 OF 10

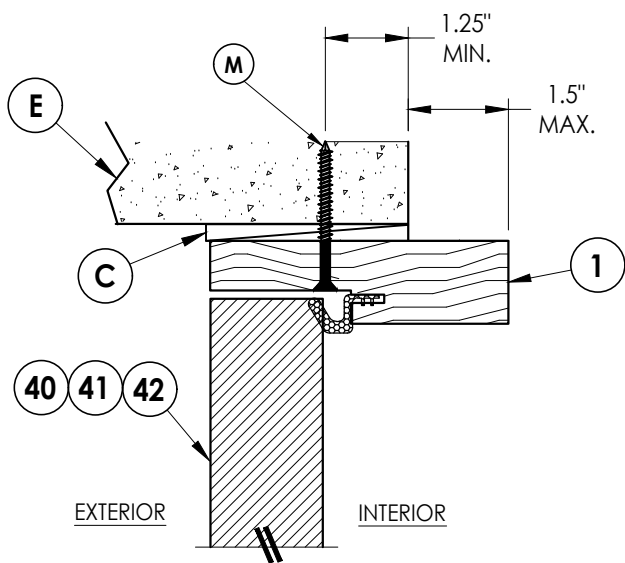
PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

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

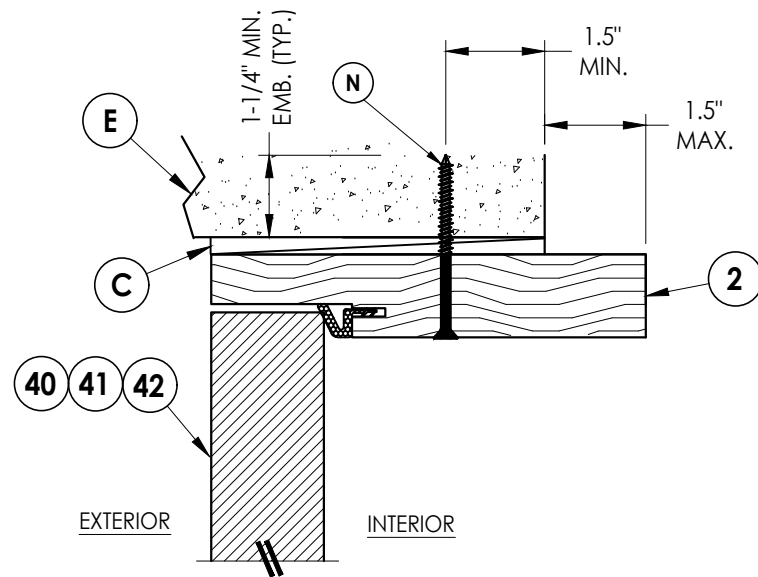
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

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

G:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-21138 R8\FL-21138.16.dwg

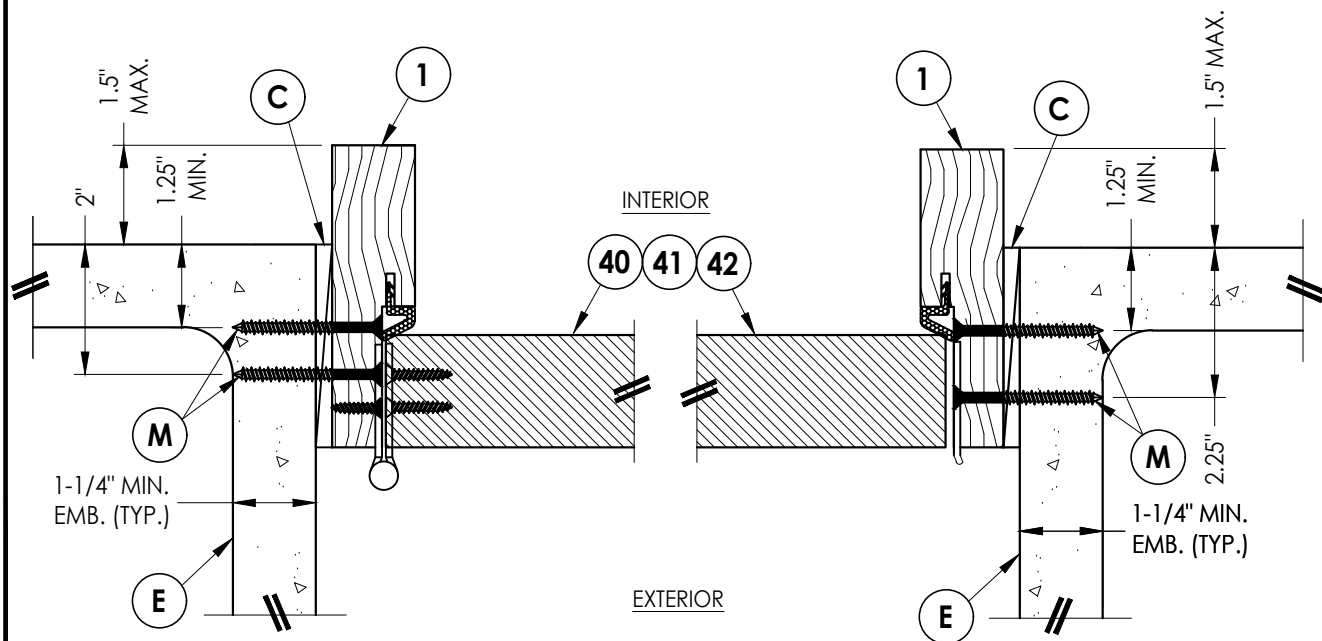


**3** **VERTICAL CROSS SECTION**  
**6** Shown Direct to Masonry  
Outswing only w/ 4-9/16" jamb

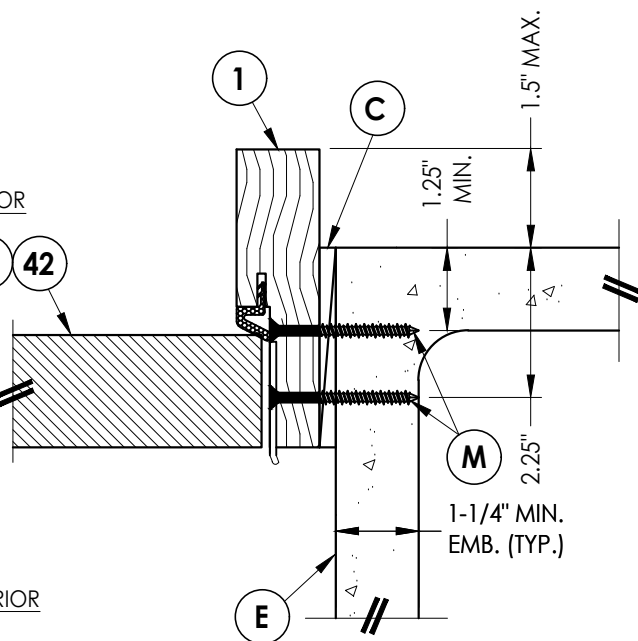


**6** **VERTICAL CROSS SECTION**  
**6** Shown Direct to Masonry  
Outswing only w/ 6-9/16" jamb

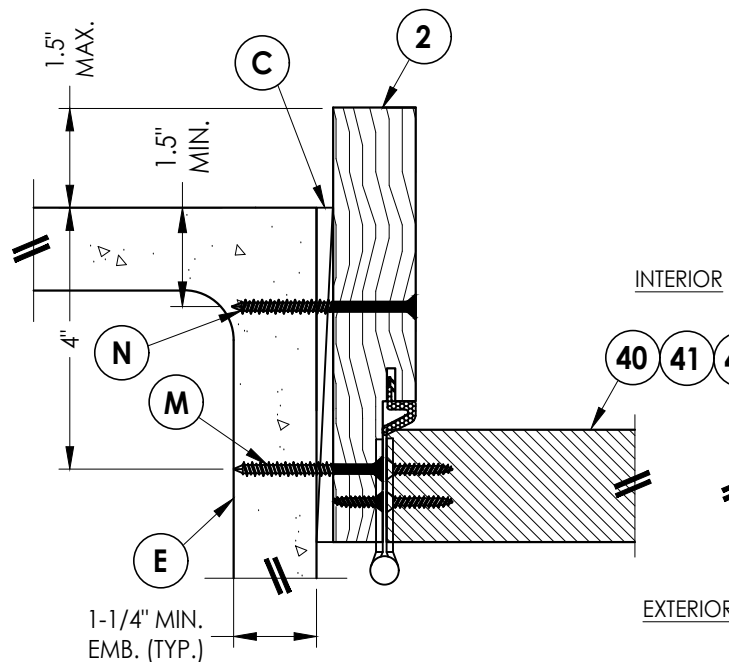
DIRECT TO MASONRY MAX. DESIGN PRESSURE:  
± 47 PSF



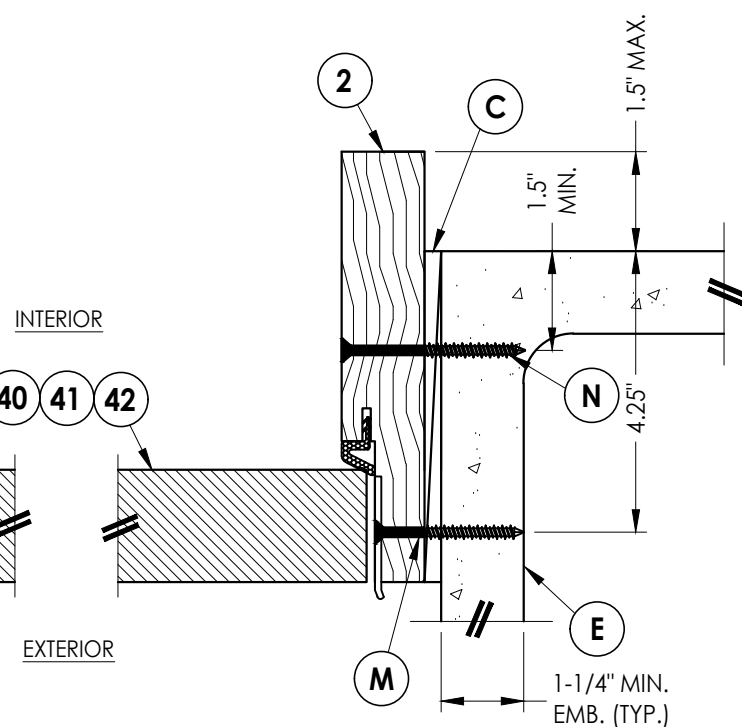
**1** **HORIZONTAL CROSS SECTION**  
**6** Shown Direct to Masonry  
Outswing only w/ 4-9/16" jamb



**2** **HORIZONTAL CROSS SECTION**  
**6** Shown Direct to Masonry  
Outswing only w/ 4-9/16" jamb



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



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

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

**R<sup>W</sup>** 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:  
HORIZONTAL & VERTICAL  
SECTIONS (DIRECT TO MASONRY)

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
| 2   | 8/22/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 1   | 7/16/20 | UPDATE TO 7th ED (2020) FBC PO   |

DATE: 7/25/19

SCALE: N.T.S.

DWG. BY: RW

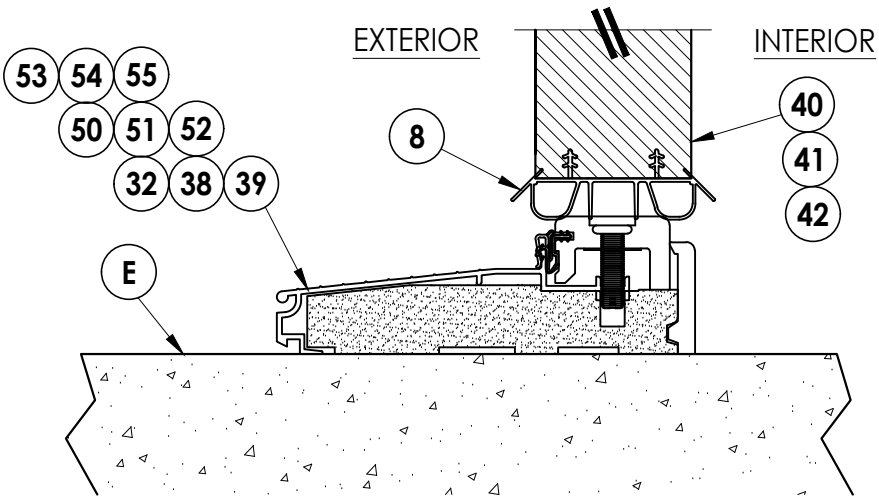
CHK. BY: LFS

DRAWING NO.:  
FL-21138.16

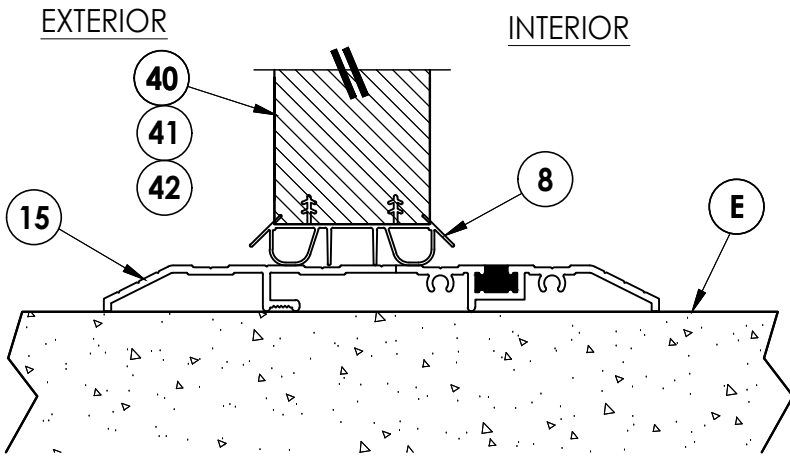
SHEET 6 OF 10

Notes:

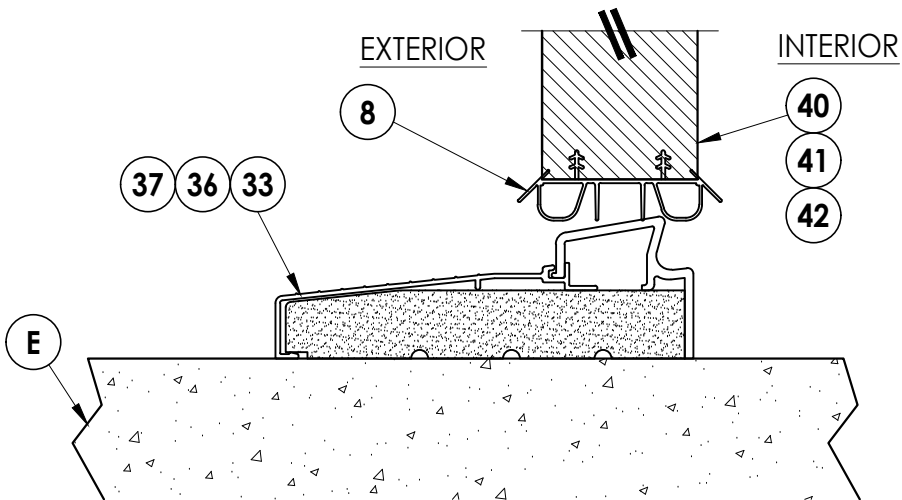
1. Sill Item #'s 16, 32, 33, 36, 37, 38, 39, 50, 51, 52, 53, 54 & 55 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws or (3) 2.5" staples at each end.
2. Sill Item #'s 17 & 18 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
3. Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



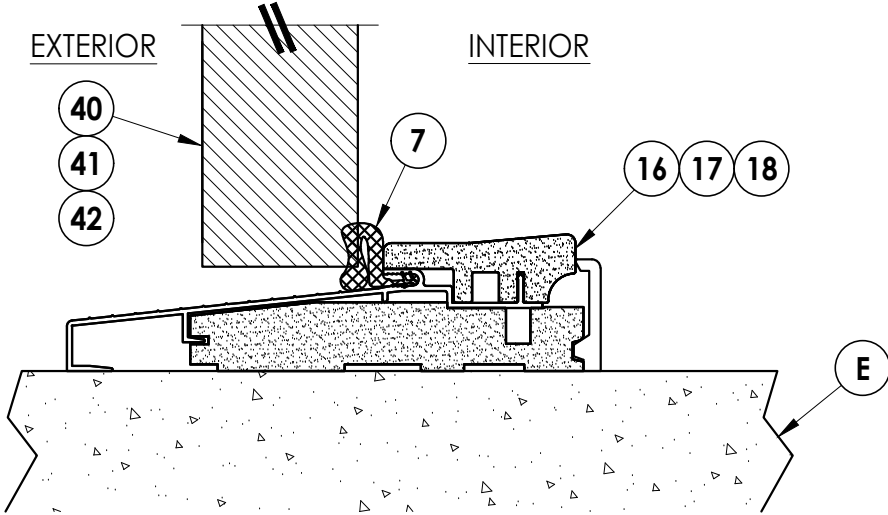
**1** **VERTICAL CROSS SECTION**  
7 Inswing configuration



**2** **VERTICAL CROSS SECTION**  
7 Outswing configuration



**3** **VERTICAL CROSS SECTION**  
7 Inswing configuration



**4** **VERTICAL CROSS SECTION**  
7 Outswing configuration

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:  
VERTICAL CROSS  
SECTIONS (THRESHOLDS)

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
| 2   | 8/22/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 1   | 7/16/20 | UPDATE TO 7th ED (2020) FBC PO   |

DATE: 7/25/19

SCALE: N.T.S.

DWG. BY: RW

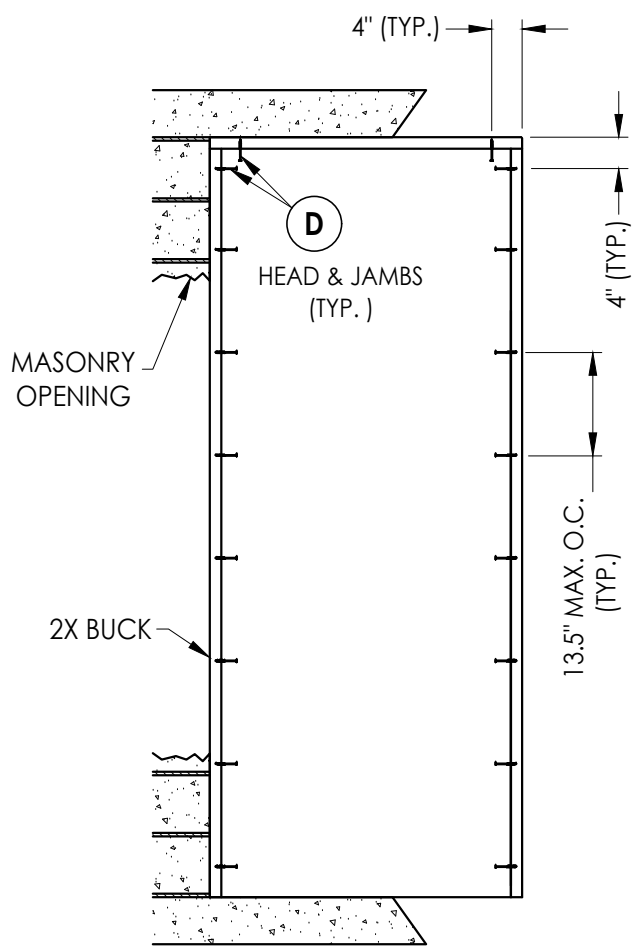
CHK. BY: LFS

DRAWING NO.:

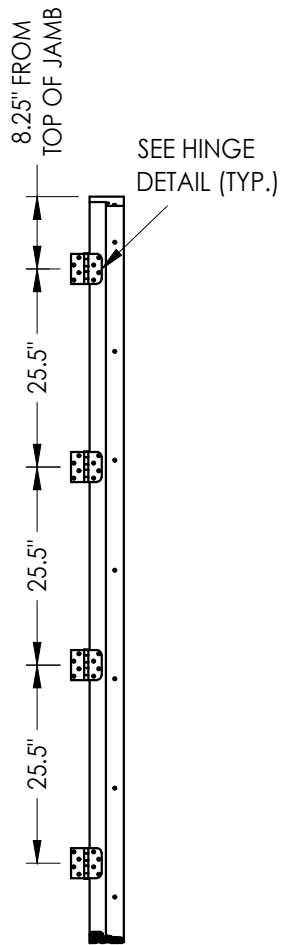
FL-21138.16

SHEET 7 OF 10

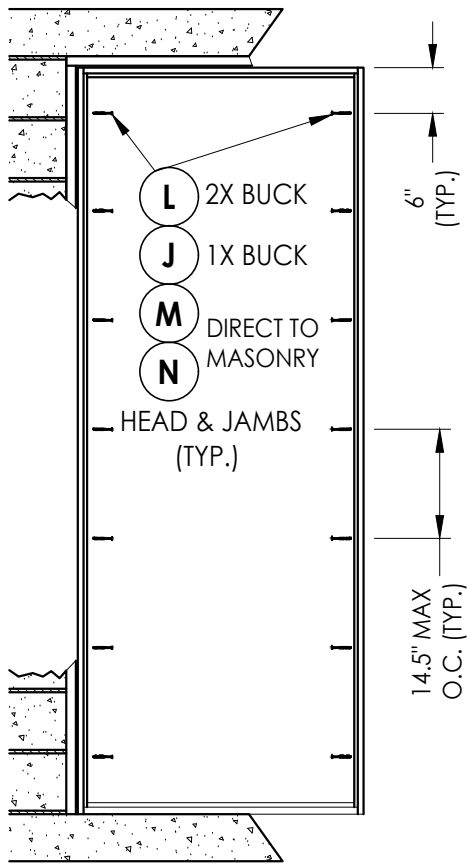
G:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-21138 R8\FL-21138.16.dwg



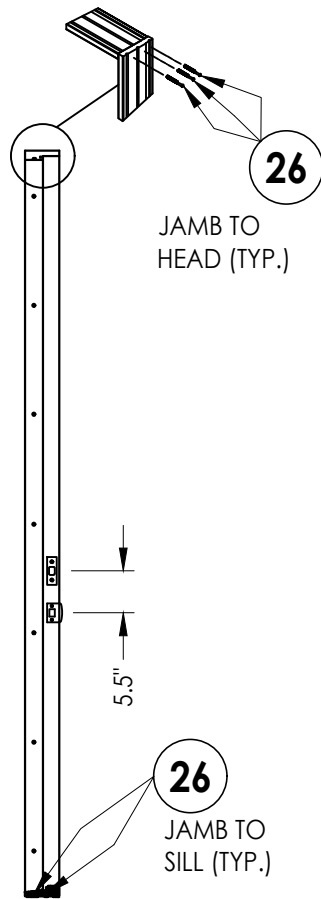
**BUCK ANCHORING**



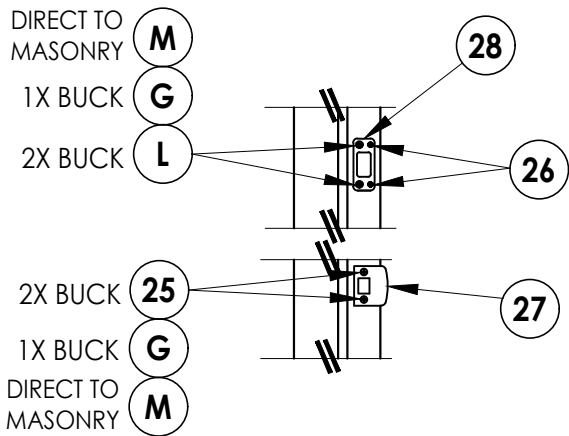
**HINGE JAMB**



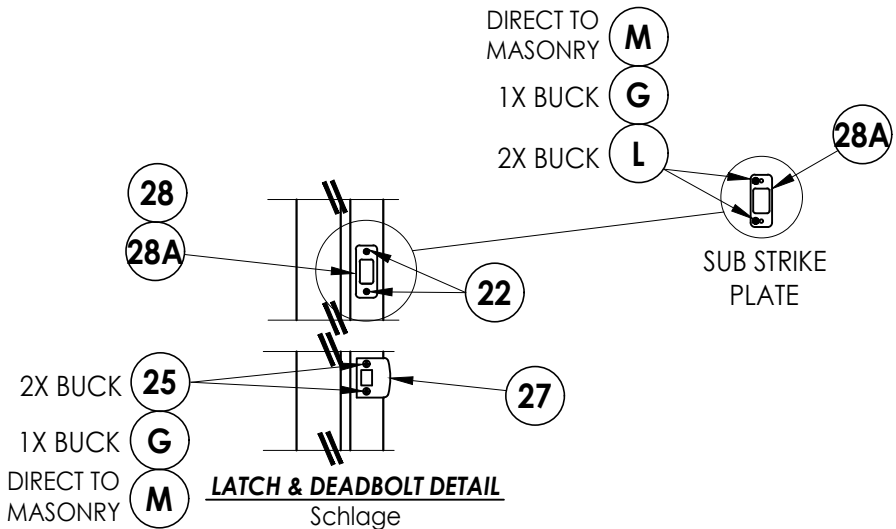
**FRAME ANCHORING**  
Masonry Construction



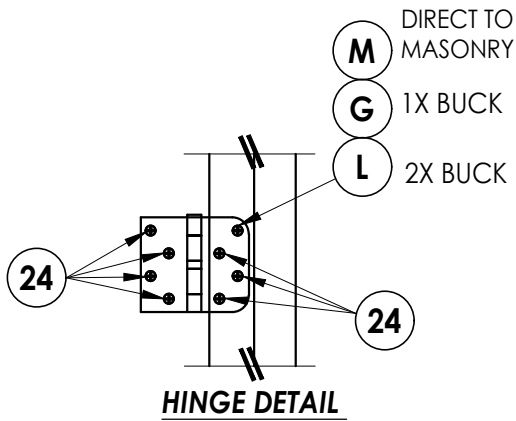
**STRIKE JAMB**



**LATCH & DEADBOLT DETAIL**  
Kwikset



**LATCH & DEADBOLT DETAIL**  
Schlage



**HINGE DETAIL**

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:  
BUCK & FRAME ANCHORING

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
| 2   | 8/22/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 1   | 7/16/20 | UPDATE TO 7th ED (2020) FBC PO   |

DATE: 7/25/19

SCALE: N.T.S.

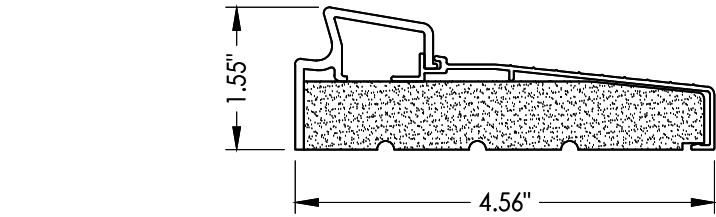
DWG. BY: RW

CHK. BY: LFS

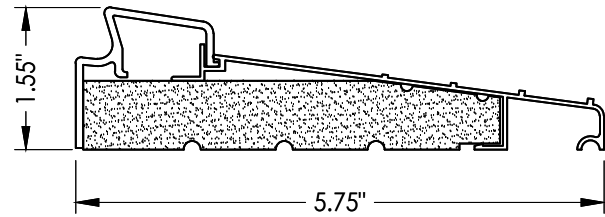
DRAWING NO.: FL-21138.16

SHEET 8 OF 10

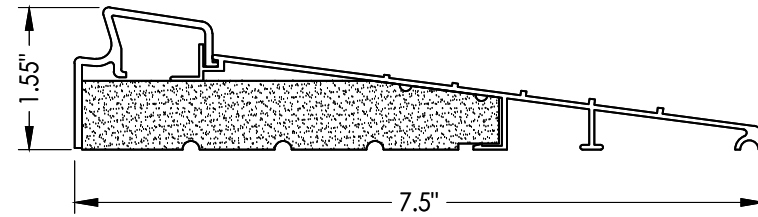
G:\2023 FBC DRAWINGS 7-27-26\Therma-Tru\FL-21138 R8\FL-21138.16.dwg



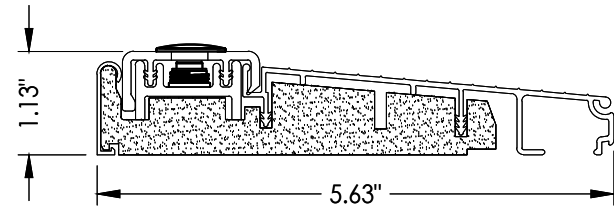
**33 INSWING THRESHOLD**  
Inswing Basic Fixed Sill



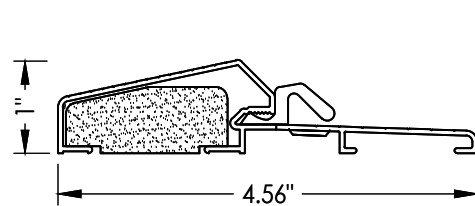
**36 INSWING THRESHOLD**  
Inswing Basic Fixed 5-3/4" Sill



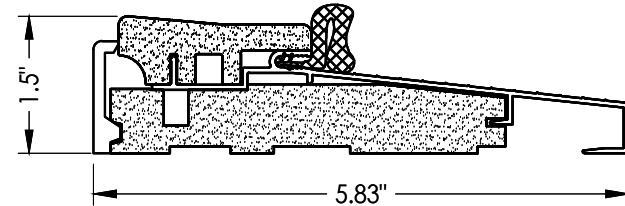
**37 INSWING THRESHOLD**  
Inswing Basic Fixed 7-1/2" Sill



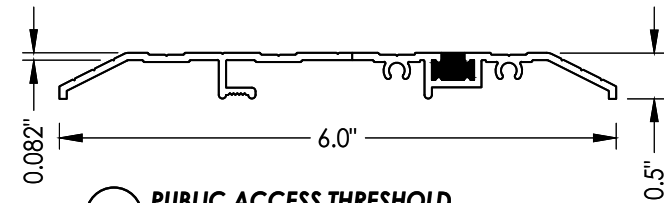
**39 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill



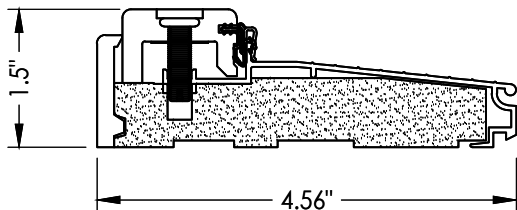
**17 OUTSWING THRESHOLD**  
Composite / Aluminum Sill



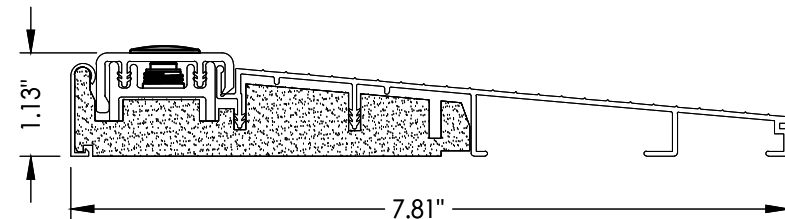
**16 OUTSWING THRESHOLD\***  
Composite / Aluminum Sill



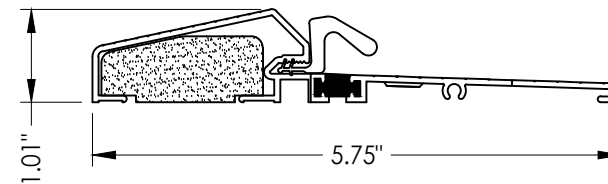
**15 PUBLIC ACCESS THRESHOLD**



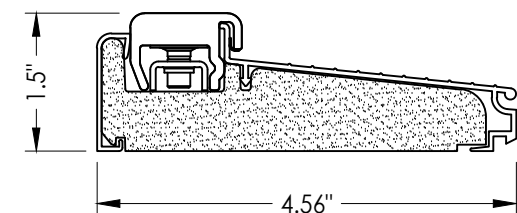
**38 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill



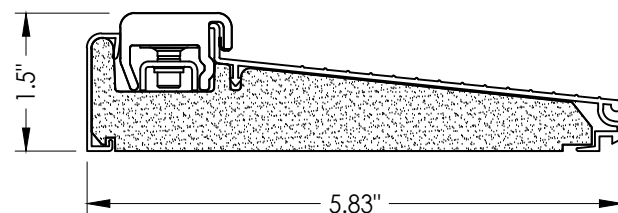
**32 INSWING THRESHOLD**  
Inswing Composite Adjustable 7-3/4" Sill



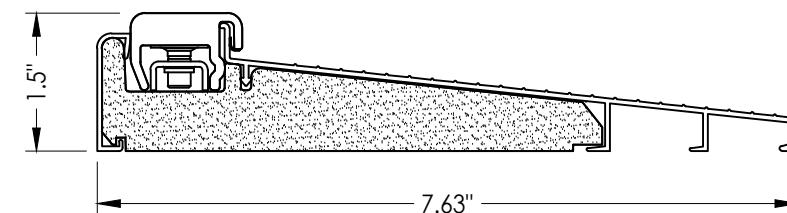
**18 OUTSWING THRESHOLD**  
Composite / Aluminum Sill  
(Thermal Break)



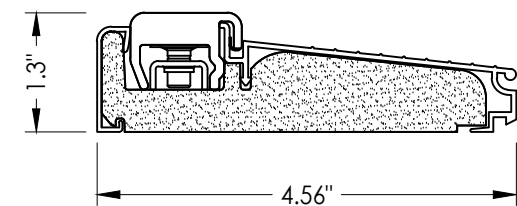
**50 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill  
Book, Hybrid



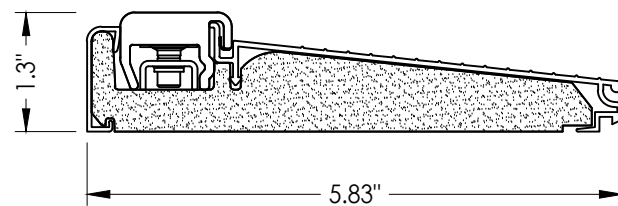
**51 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill  
Book, Hybrid



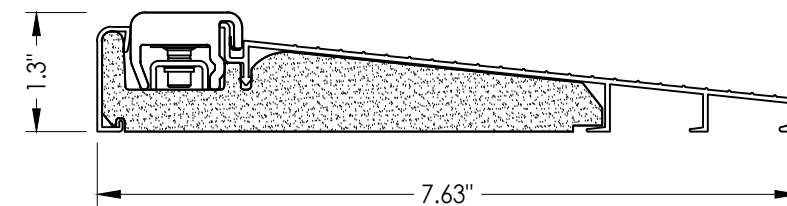
**52 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill  
Book, Hybrid



**53 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill  
U1



**54 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill  
U1



**55 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill  
U1

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

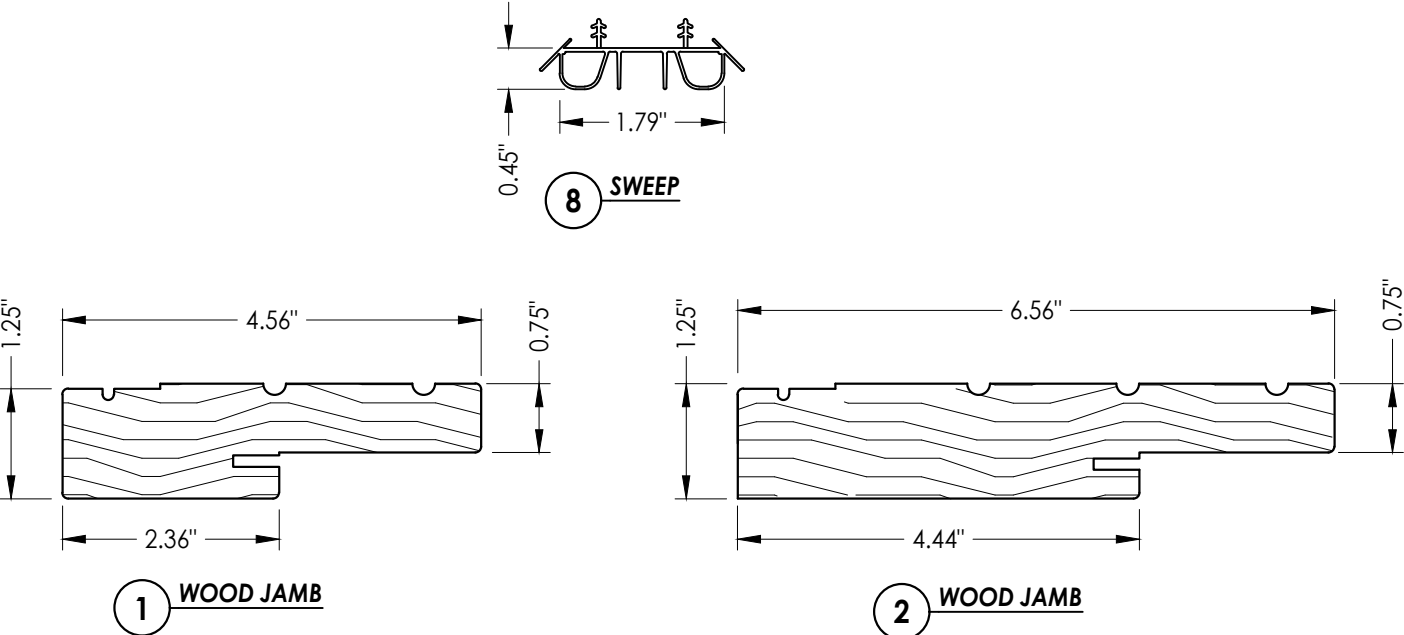
PART OR ASSEMBLY:

COMPONENTS

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 3   | 7/02/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
| 2   | 8/22/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 1   | 7/16/20 | UPDATE TO 7th ED (2020) FBC PO   |

|              |             |
|--------------|-------------|
| DATE:        | 7/25/19     |
| SCALE:       | N.T.S.      |
| DWG. BY:     | RW          |
| CHK. BY:     | LFS         |
| DRAWING NO.: | FL-21138.16 |
| SHEET        | 9 OF 10     |

| 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      | 27                | LATCH STRIKE PLATE                 | STEEL     |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -         | 28                | DEADBOLT STRIKE PLATE              | STEEL     |
| D                 | 1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL     | 28A               | DEADBOLT SECURITY SUB 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     |
|                   |                                                                                                |           | 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     | 36                | INSWING THRESHOLD                  | ALUM/COMP |
| J                 | 1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL     | 37                | INSWING THRESHOLD                  | ALUM/COMP |
| L                 | #10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)                                             | STEEL     | 38                | INSWING THRESHOLD                  | ALUM/COMP |
| M                 | 3/16" X 2-1/4" ITW CONCRETE SCREW                                                              | STEEL     | 39                | INSWING THRESHOLD                  | ALUM/COMP |
| 1                 | JAMB (FINGER JOINT PINE )                                                                      | WOOD      | 40                | DOOR PANEL (BOOK)                  | -         |
| 2                 | JAMB (FINGER JOINT PINE )                                                                      | WOOD      | 41                | DOOR PANEL (HYBRID)                | -         |
| 6                 | WEATHERSTRIP (MEDIUM REACH)                                                                    | FOAM      | 42                | DOOR PANEL (U1)                    | -         |
| 7                 | WEATHERSTRIP (LONG REACH)                                                                      | FOAM      | 50                | INSWING THRESHOLD                  | ALUM/COMP |
| 8                 | SWEEP                                                                                          | VINYL     | 51                | INSWING THRESHOLD                  | ALUM/COMP |
| 15                | PUBLIC ACCESS THRESHOLD                                                                        | ALUM      | 52                | INSWING THRESHOLD                  | ALUM/COMP |
| 16                | OUTSWING THRESHOLD                                                                             | ALUM/COMP | 53                | INSWING THRESHOLD                  | ALUM/COMP |
| 17                | OUTSWING THRESHOLD                                                                             | ALUM/COMP | 54                | INSWING THRESHOLD                  | ALUM/COMP |
| 18                | OUTSWING THRESHOLD                                                                             | ALUM/COMP | 55                | INSWING THRESHOLD                  | ALUM/COMP |
| 22                | #8 x 3/4" PFH WOOD SCREW                                                                       | STEEL     |                   |                                    |           |
| 23                | #10 x 3/4" PFH WOOD SCREW                                                                      | STEEL     |                   |                                    |           |
| 24                | #10 x 1" PFH WOOD SCREW                                                                        | STEEL     |                   |                                    |           |



**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 ULTRAON® | 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.

[illegible]