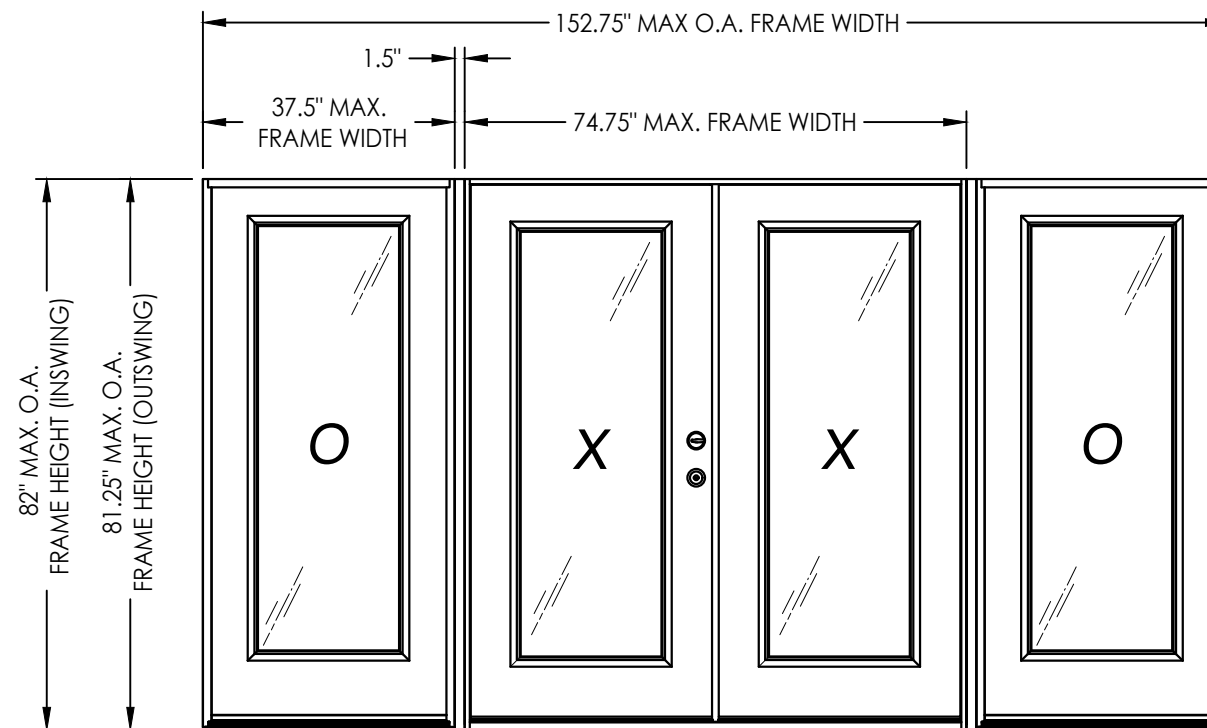
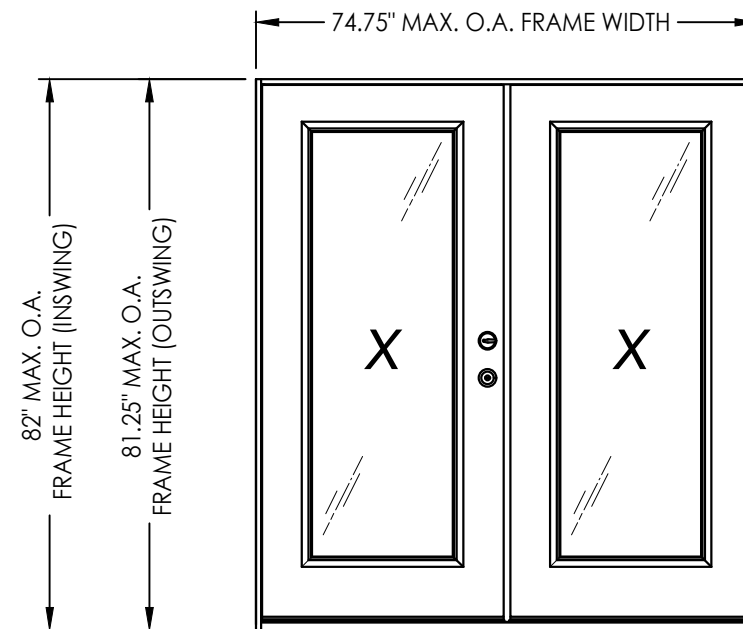
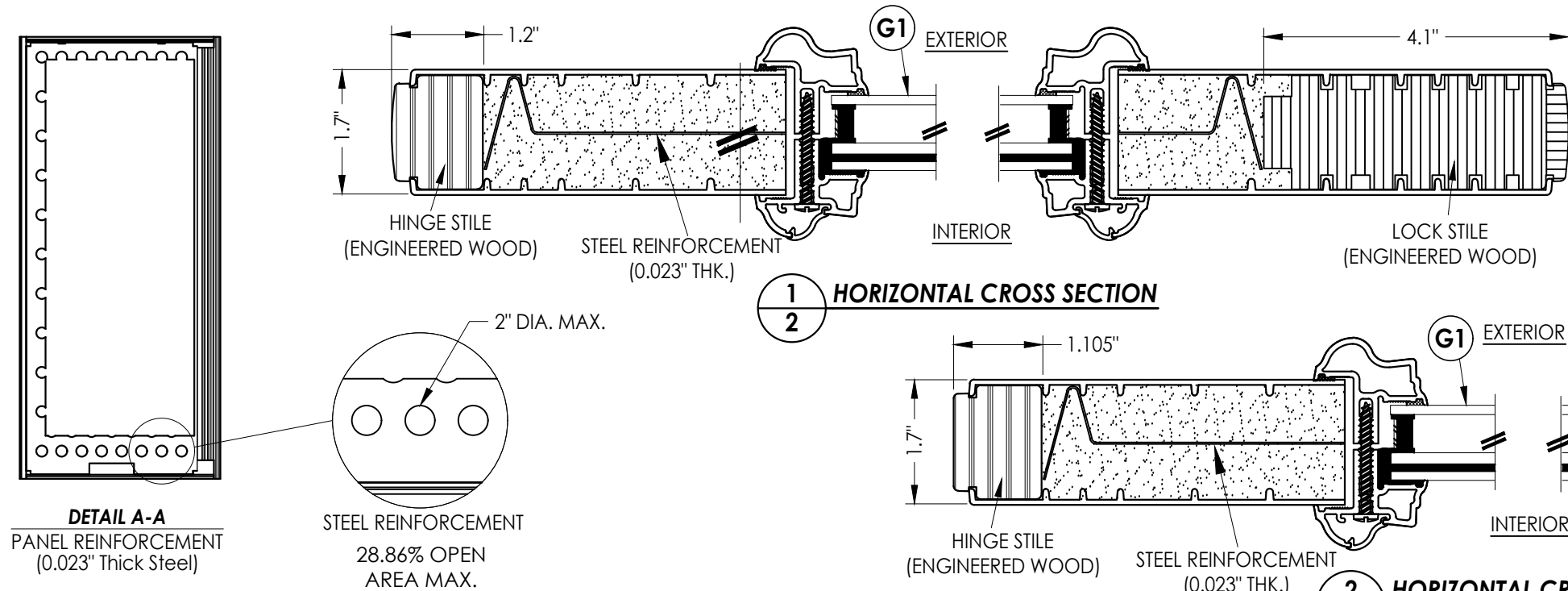




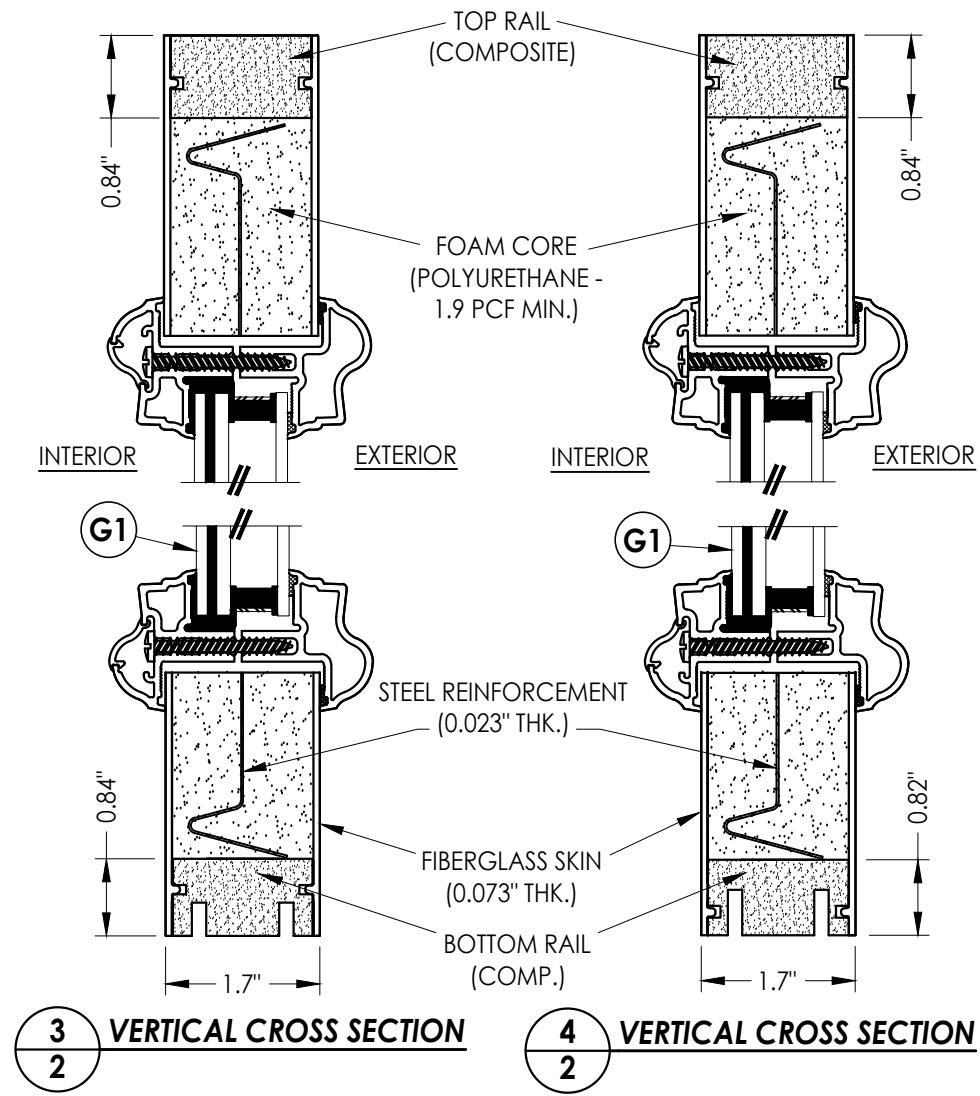
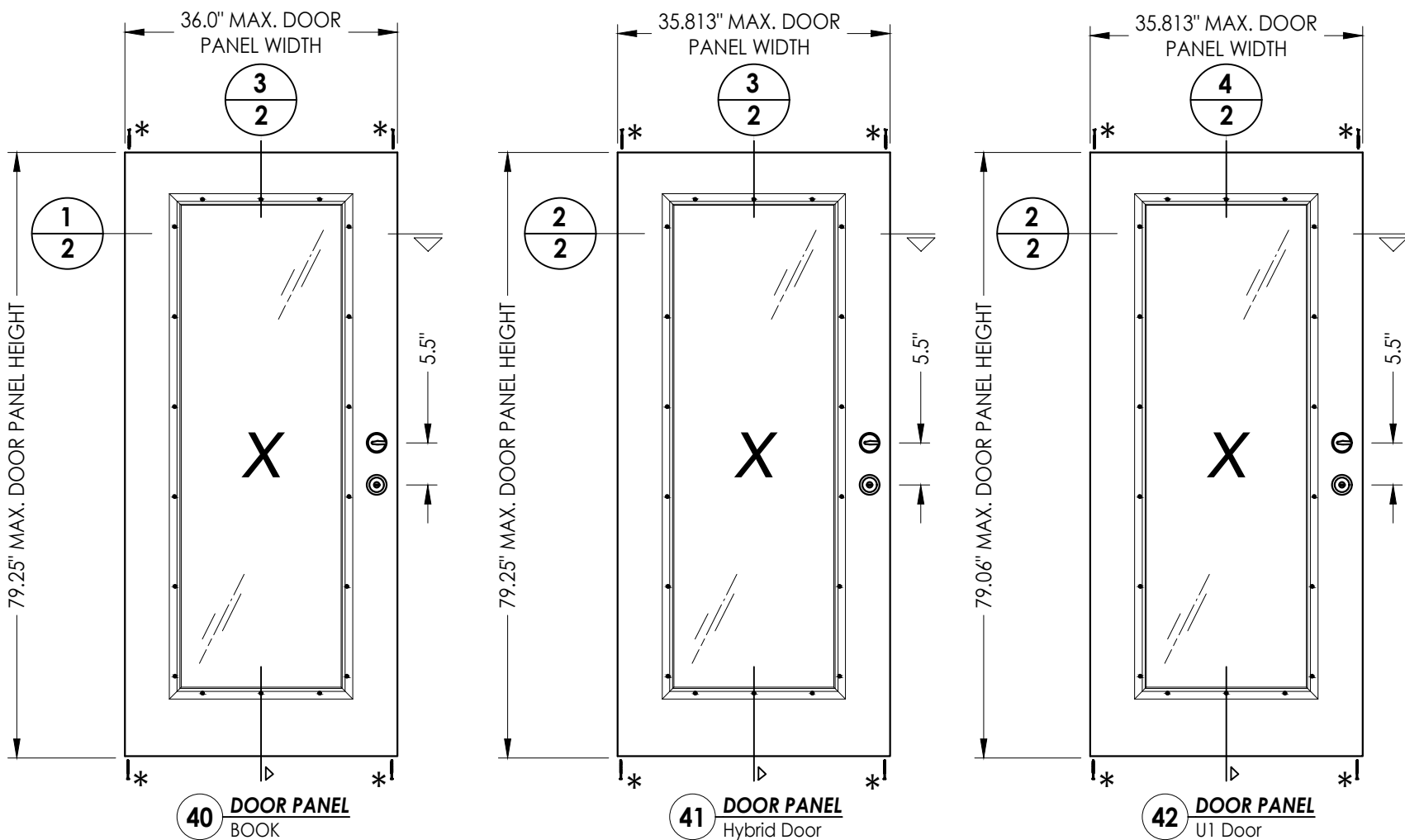
| TABLE OF CONTENTS |                                                          |        |                                      |
|-------------------|----------------------------------------------------------|--------|--------------------------------------|
| SHEET#            | DESCRIPTION                                              | SHEET# |                                      |
| 1                 | Typical Elevations, Design Pressures & General Notes     | 8      | Vertical Cross Sections (Thresholds) |
| 2                 | Door Panel Details                                       | 9      | Buck Anchoring                       |
| 3                 | Sidelite Panel Details                                   | 10     | Frame Anchoring                      |
| 4                 | Elevations                                               | 11     | Hardware Details                     |
| 5                 | Horizontal & Vertical Cross Sections (2X Buck)           | 12     | Glazing Details                      |
| 6                 | Horizontal & Vertical Cross Sections (1X Buck)           | 13     | Components                           |
| 7                 | Horizontal & Vertical Cross Sections (Direct to Masonry) | 14     | Bill of Materials                    |

[illegible]

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



Documents Prepared By:  
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P.E. No. 43409

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Phone No.: 813.659.9197  
FBPE Registry No. 9813

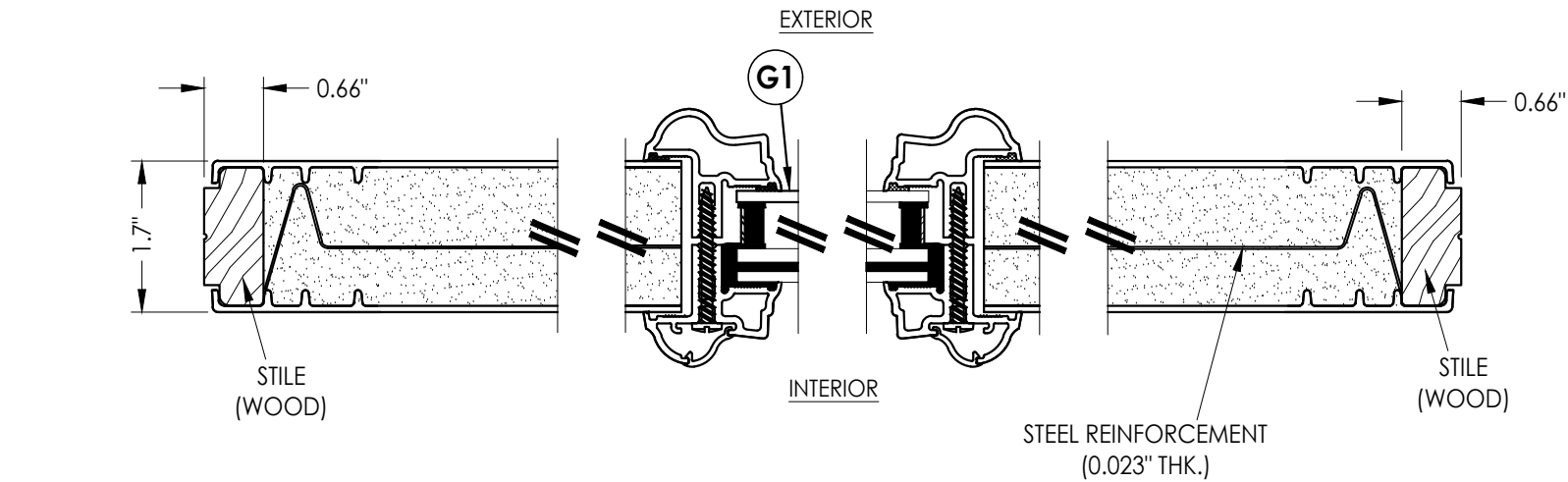
PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
DOOR PANEL DETAILS

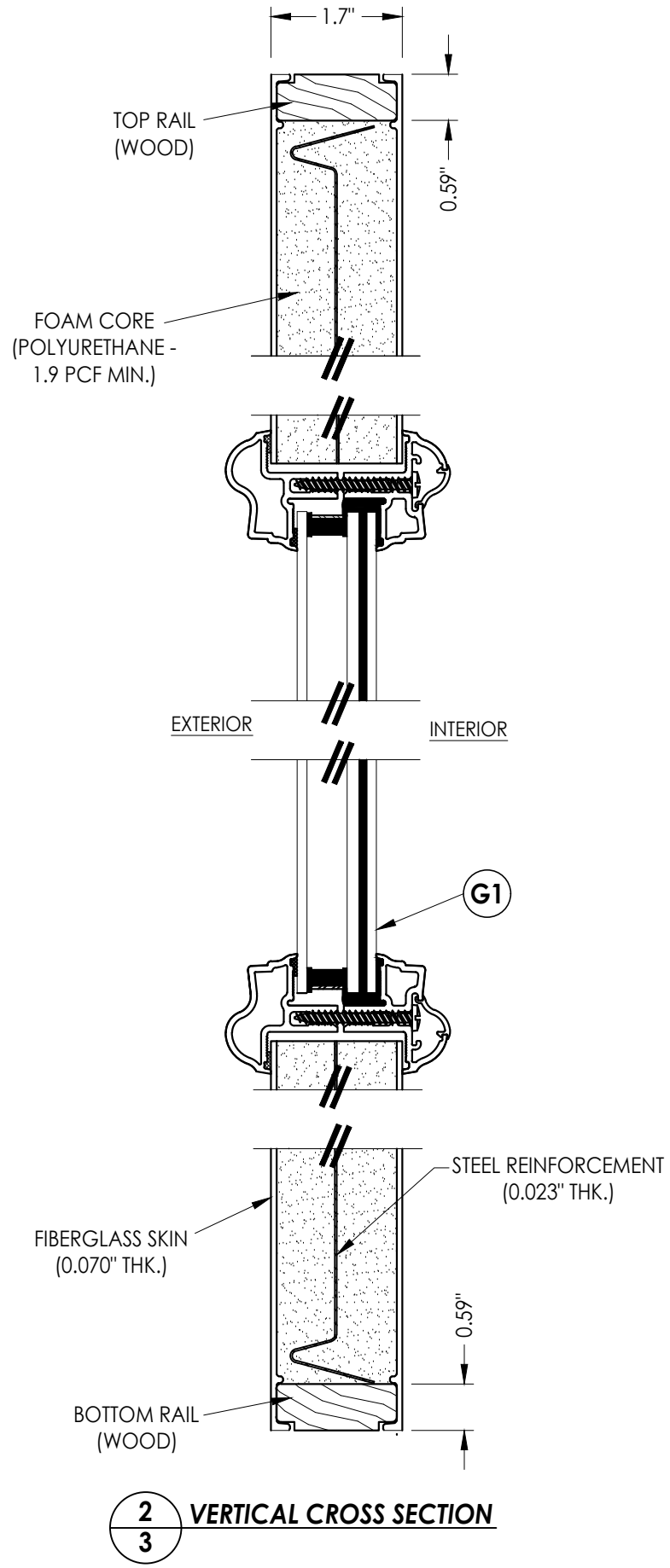
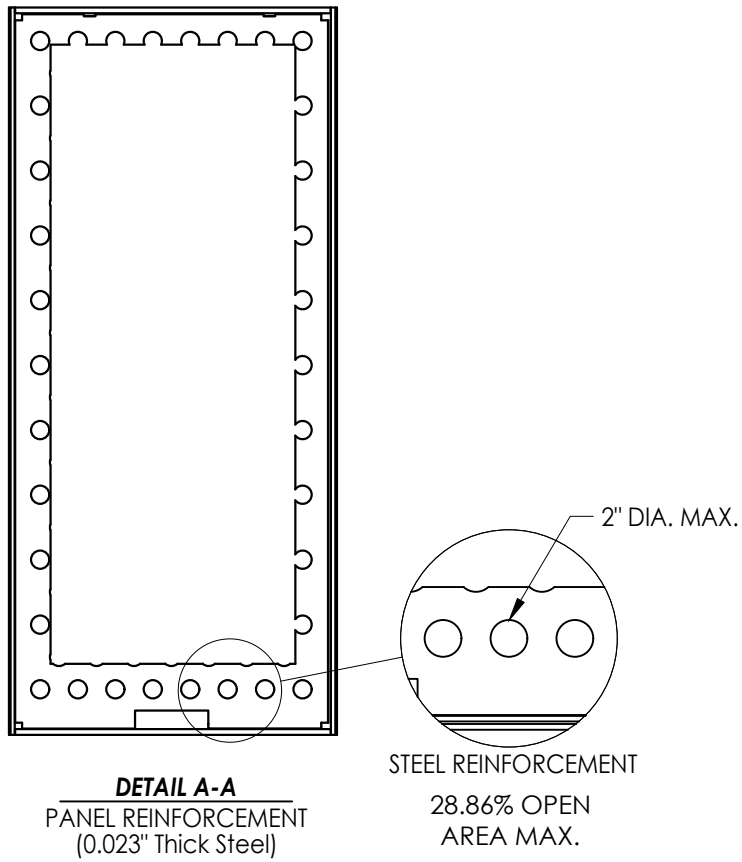
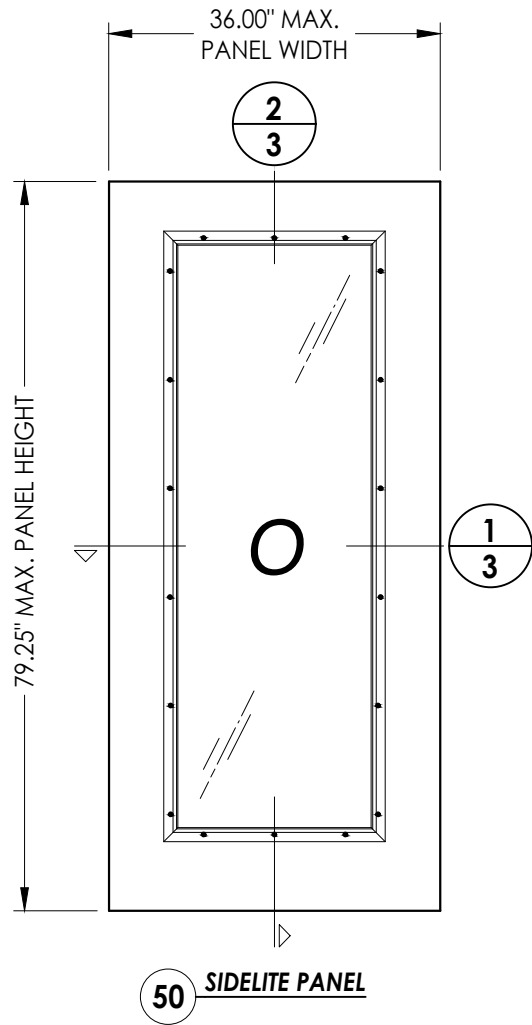
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SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-21142.9  
SHEET 2 OF 14

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1  
3 HORIZONTAL CROSS SECTION



2  
3 VERTICAL CROSS SECTION

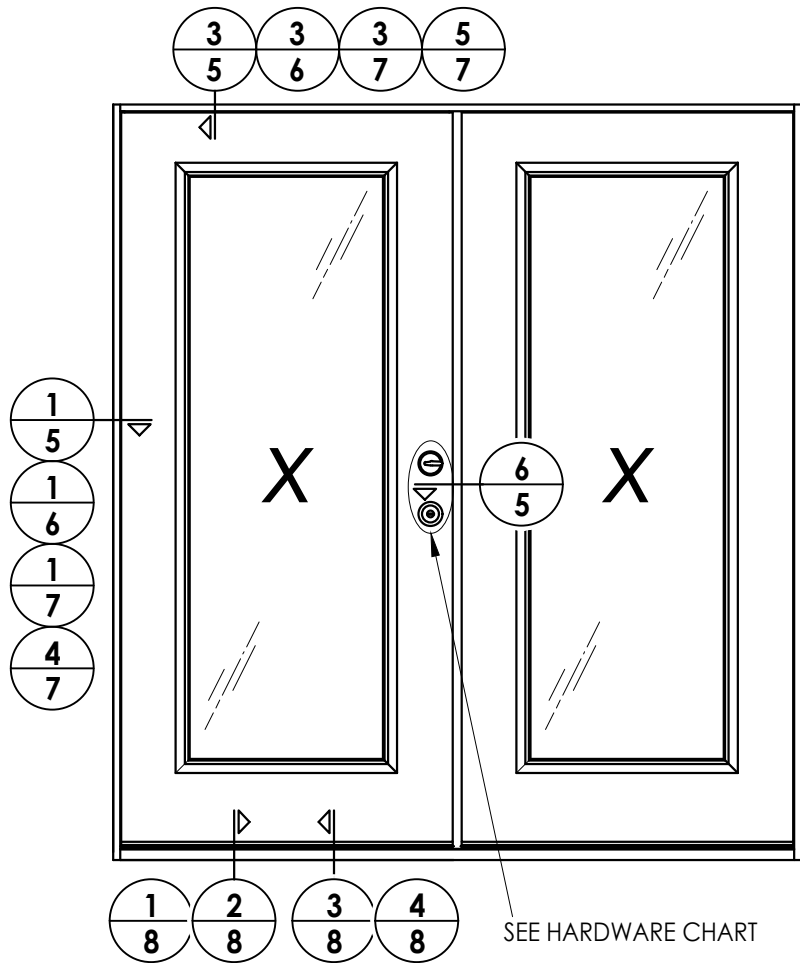
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|--------------|------------|
| DATE:        | 12/22/16   |
| SCALE:       | N.T.S.     |
| DWG. BY:     | JK         |
| CHK. BY:     | LFS        |
| DRAWING NO.: | FL-21142.9 |
| SHEET        | 3 OF 14    |

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 2   | 8/18/23 | UPDATE TO 8TH ED. (2023) FBC |
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| LFS | PO      | BY                           |

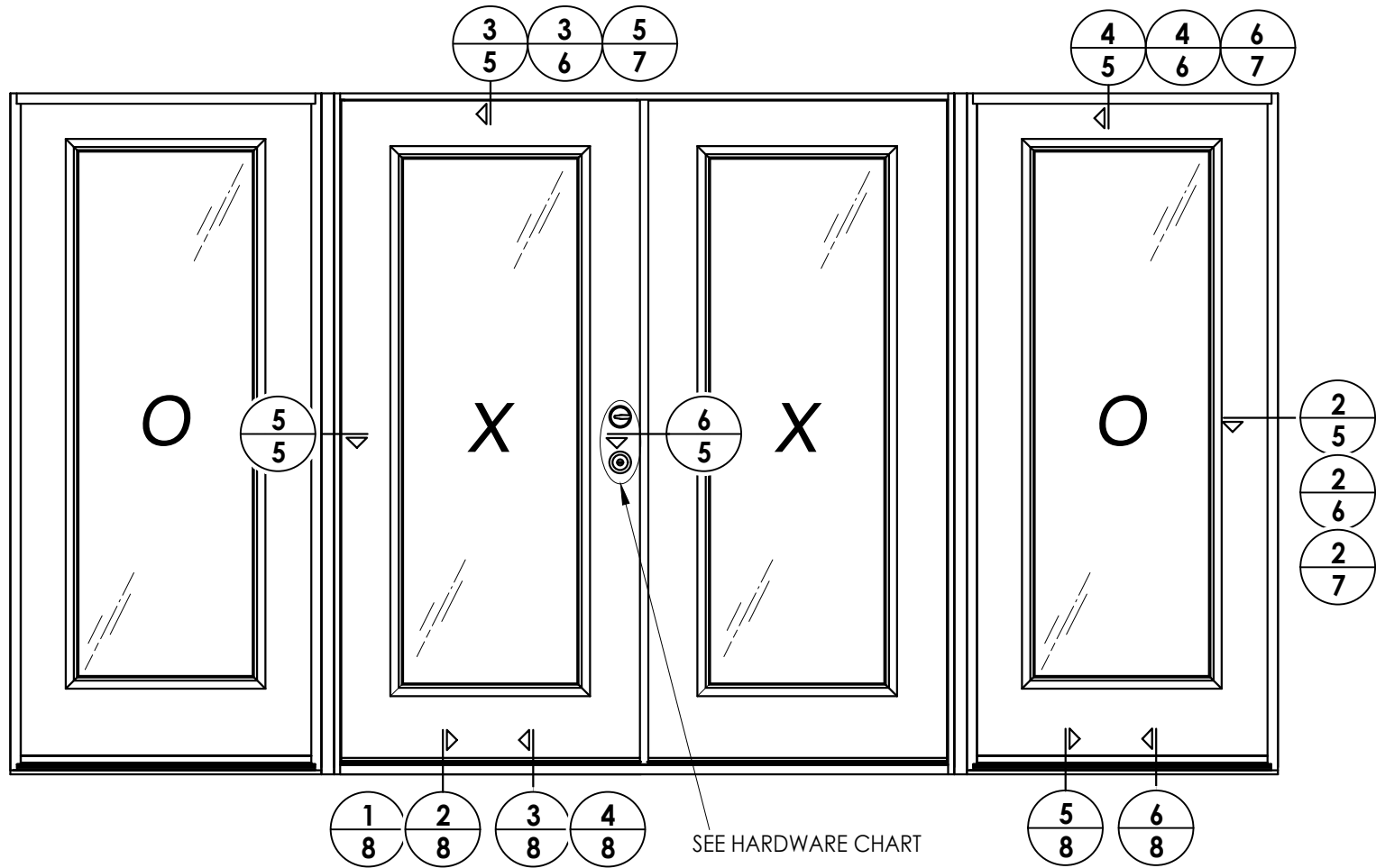
|                   |                               |
|-------------------|-------------------------------|
| PRODUCT:          | THERMA-TRU<br>FIBERGLASS DOOR |
| PART OR ASSEMBLY: | SIDELITE PANEL DETAILS        |

|                            |                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------|
| Documents Prepared By:     | Lyndon F. Schmidt<br>P.E. No. 43409                                                  |
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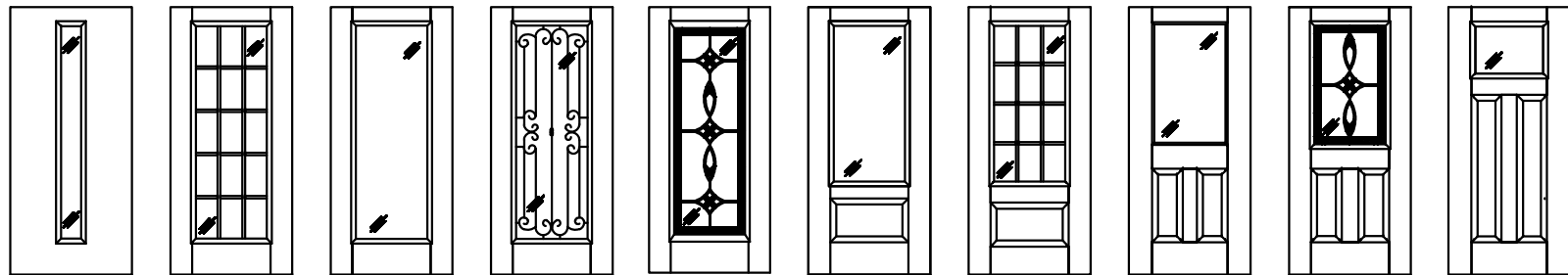
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ELEVATION  
XX



ELEVATION  
OXXO



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

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

| HARDWARE TABLE        |                                                            |
|-----------------------|------------------------------------------------------------|
| MANUFACTURER          | MODEL                                                      |
| SCHLAGE               | KNOB: F51<br>DEADBOLT: B60                                 |
| KWIKSET               | KNOB: SIGNATURE SERIES<br>DEADBOLT: SIGNATURE SERIES (980) |
| HOPPE<br>(THERMA-TRU) | MULTIPOINT : MPDGSB<br>(3 pt. Manual Shootbolt)            |

Documents Prepared By:  
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PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
ELEVATIONS

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 2   | 8/18/23 | UPDATE TO 8TH ED. (2023) FBC |
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SCALE: N.T.S.

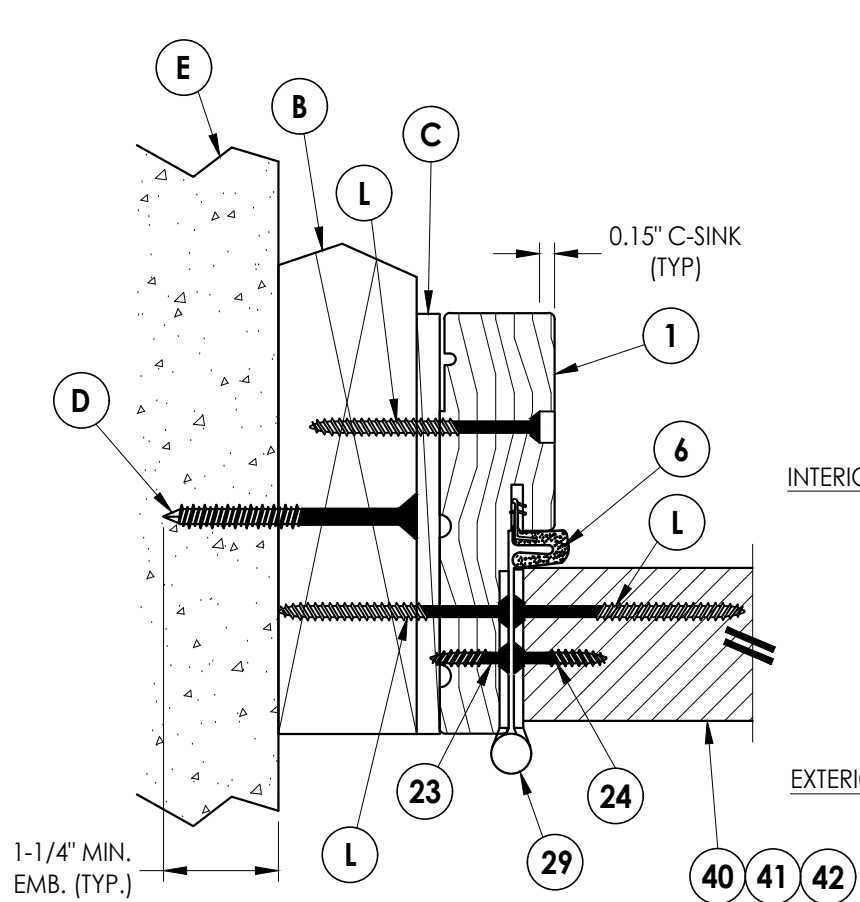
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CHK. BY: LFS

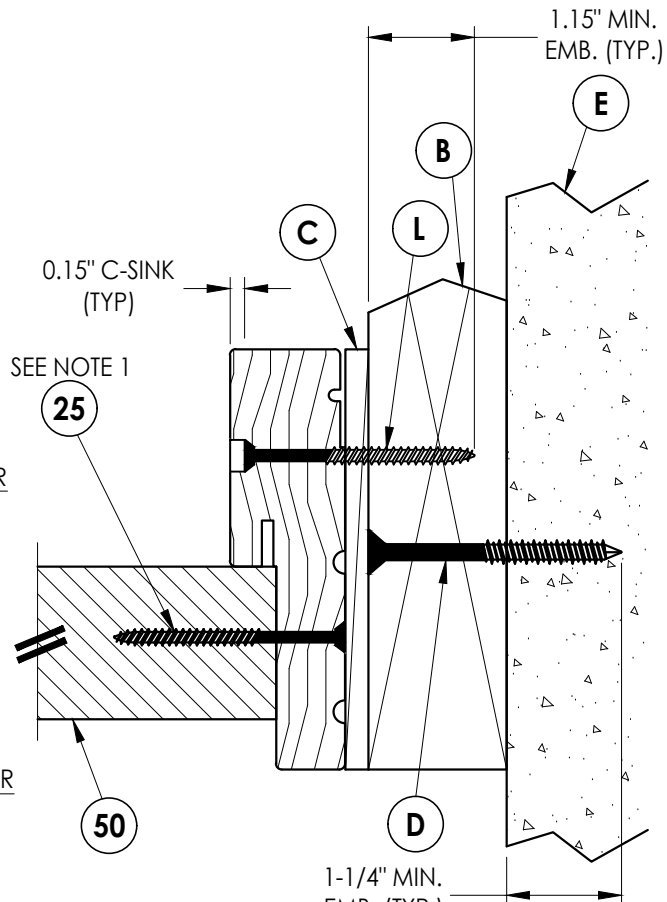
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FL-21142.9

SHEET 4 OF 14

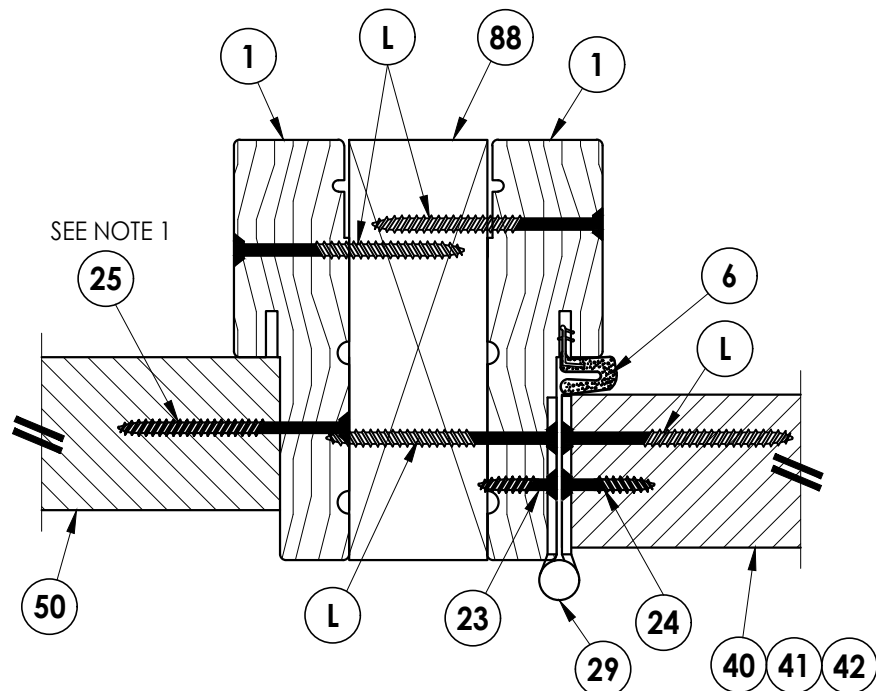
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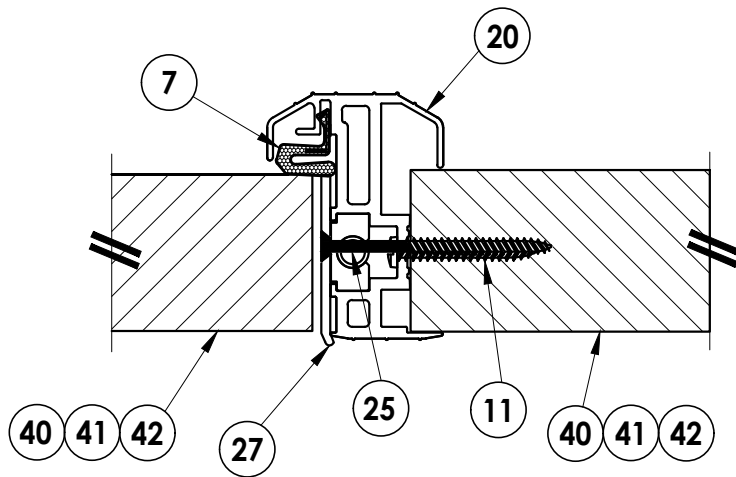
**1 HORIZONTAL CROSS SECTION**  
5 Shown w/ 2X Buck  
Outswing shown (Inswing similar)



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

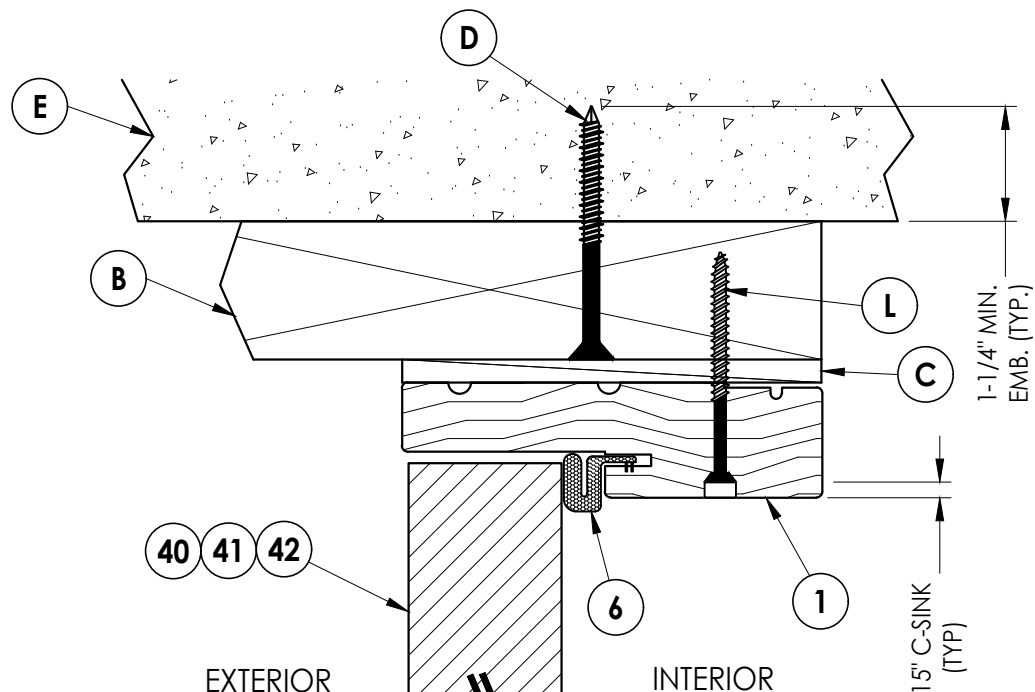


**5 HORIZONTAL CROSS SECTION**  
5 Outswing shown (Inswing similar)

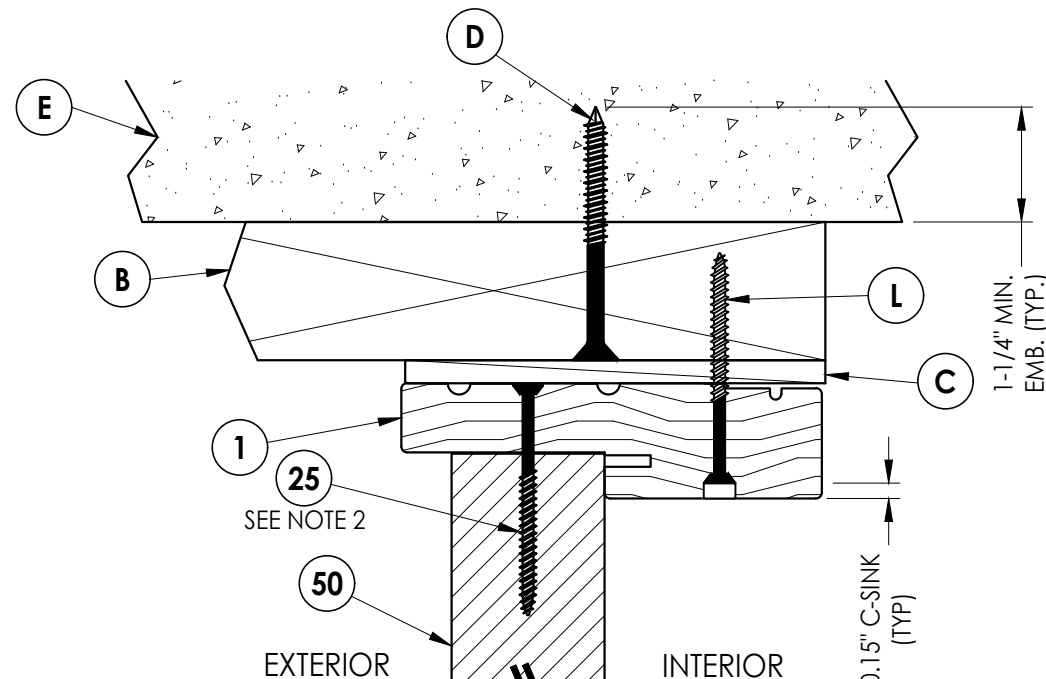


**6 HORIZONTAL CROSS SECTION**  
5 Outswing shown (Inswing similar)

- Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
  2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



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



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

Documents Prepared By:  
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Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
CROSS SECTIONS (2X BUCK)

| NO. | DATE    | REVISIONS                    |
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DATE: 12/22/16

SCALE: N.T.S.

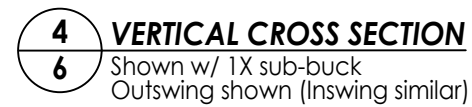
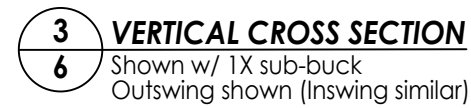
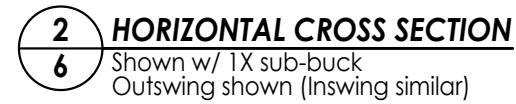
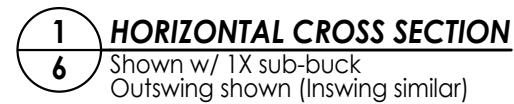
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21142.9

SHEET 5 OF 14

1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).

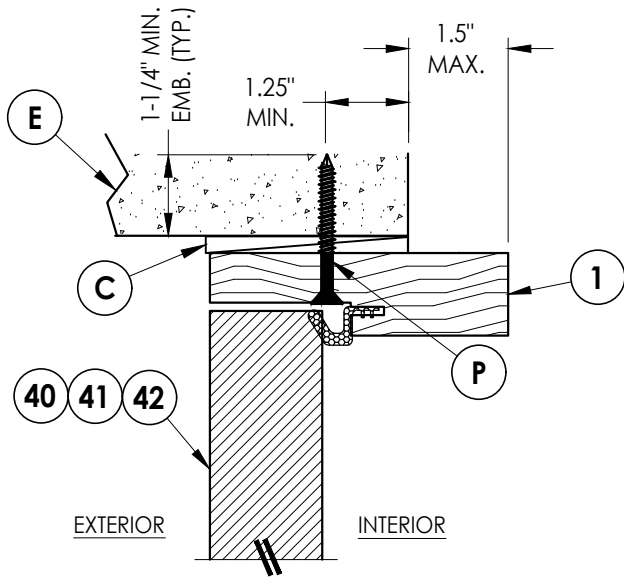
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P.E. No. 43409

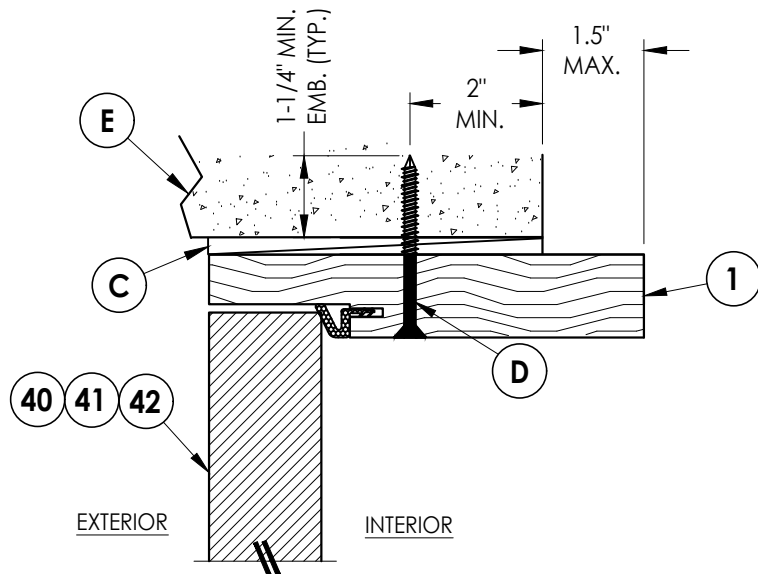
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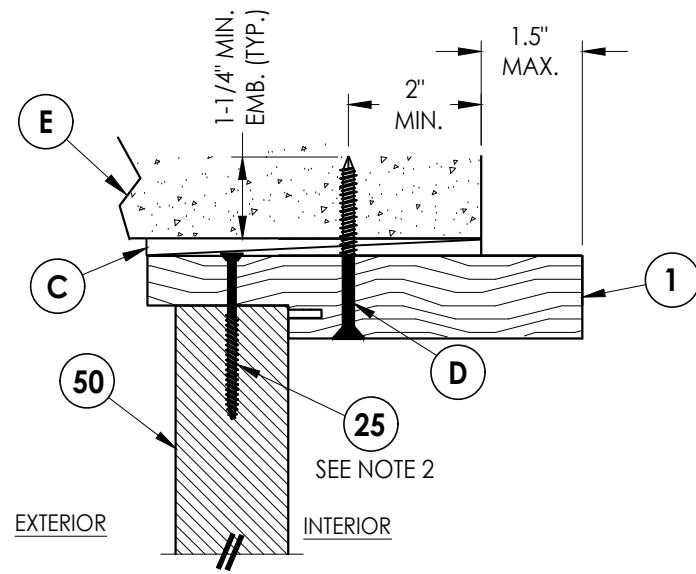
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**3**  
**7** **VERTICAL CROSS SECTION**  
Shown Direct to Masonry  
Outswing only w/ 4-9/16" jamb  
Double Door Only (N/A w/ Sidelites)



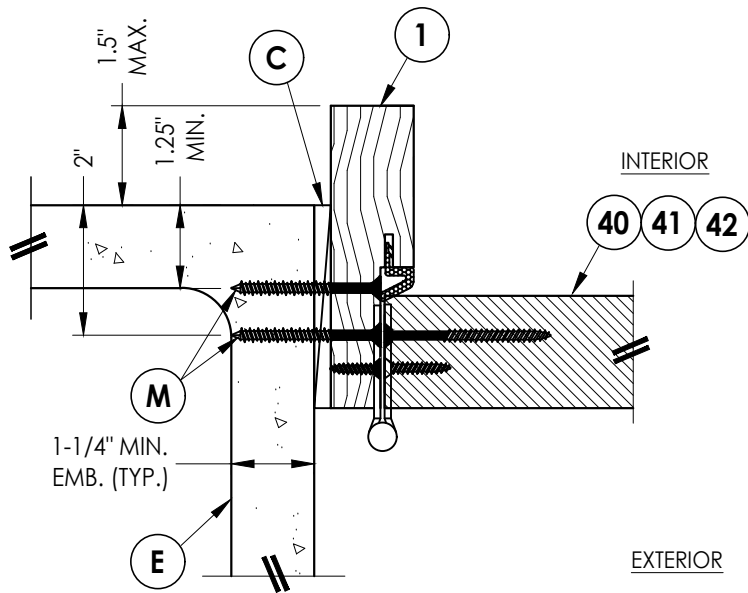
**5**  
**7** **VERTICAL CROSS SECTION**  
Shown Direct to Masonry  
Outswing only w/ 6-9/16" jamb



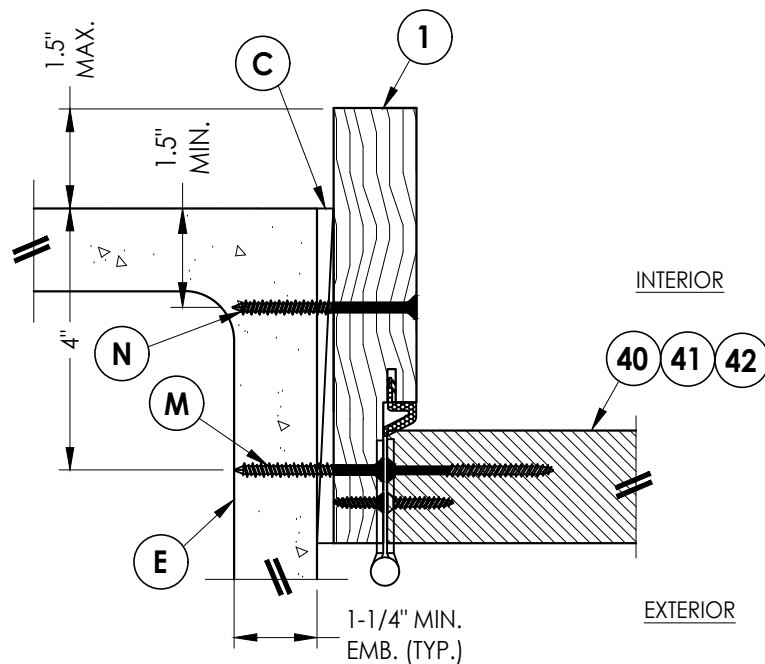
**6**  
**7** **VERTICAL CROSS SECTION**  
Shown Direct to Masonry  
Outswing only w/ 6-9/16" jamb

Notes:

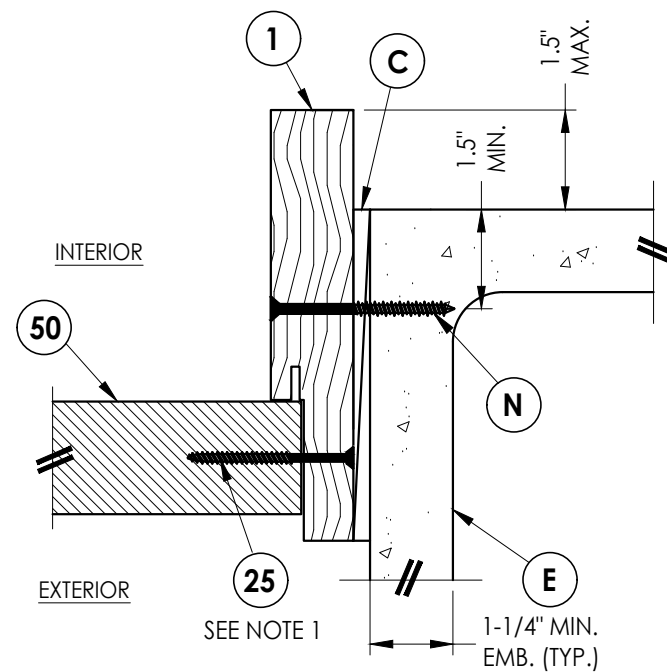
1. Sidelite assembly screws located 6" from each end plus 5 more equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



**1**  
**7** **HORIZONTAL CROSS SECTION**  
Shown Direct to Masonry  
Outswing only w/ 4-9/16" jamb  
Double Door Only (N/A w/ Sidelites)



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



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

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FBPE Registry No. 9813

RW

PRODUCT: THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
SECTIONS (DIRECT TO MASONRY)

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

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

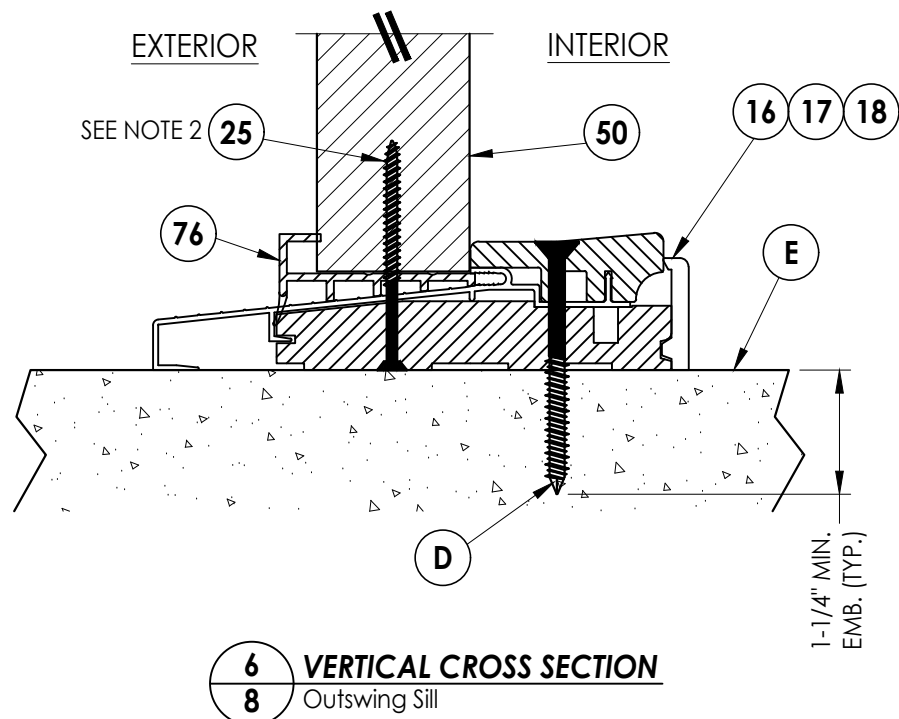
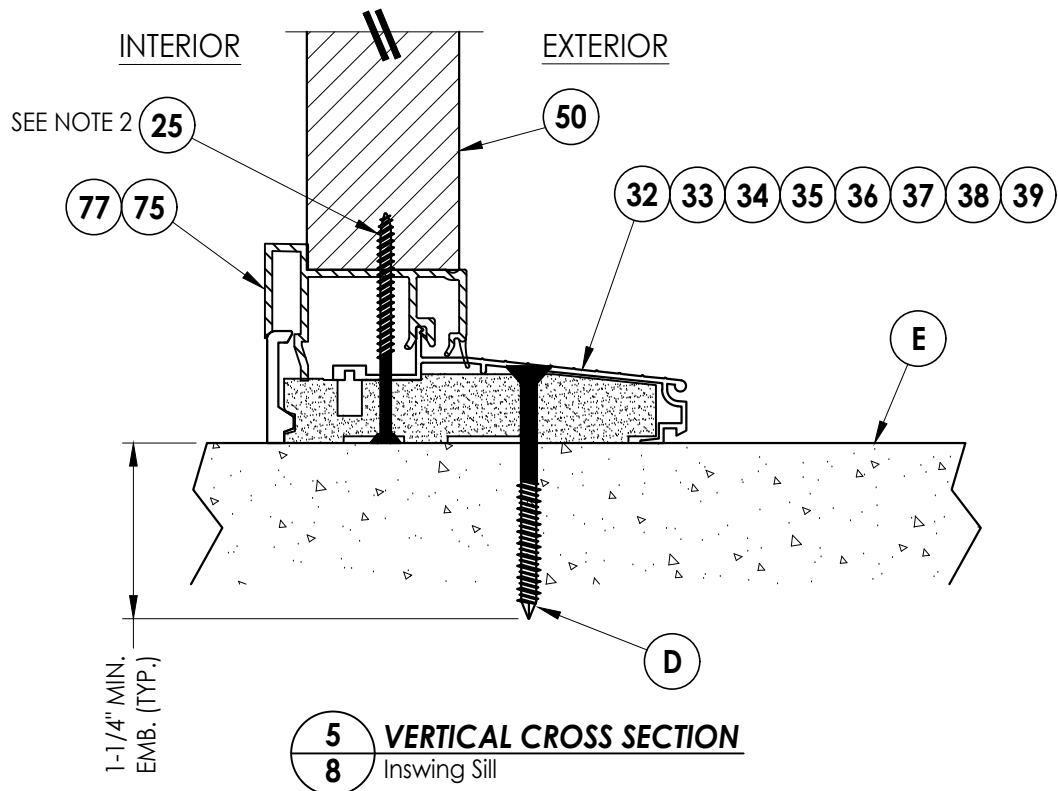
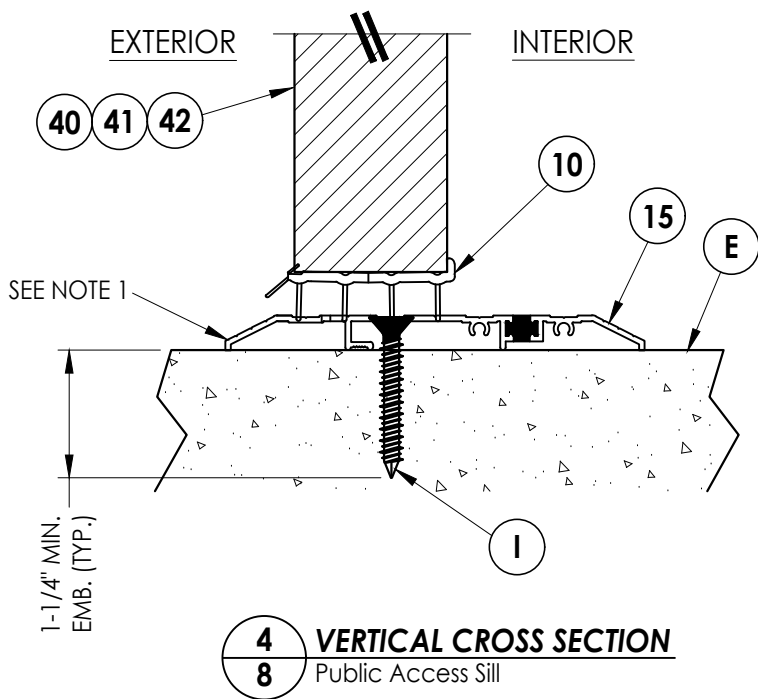
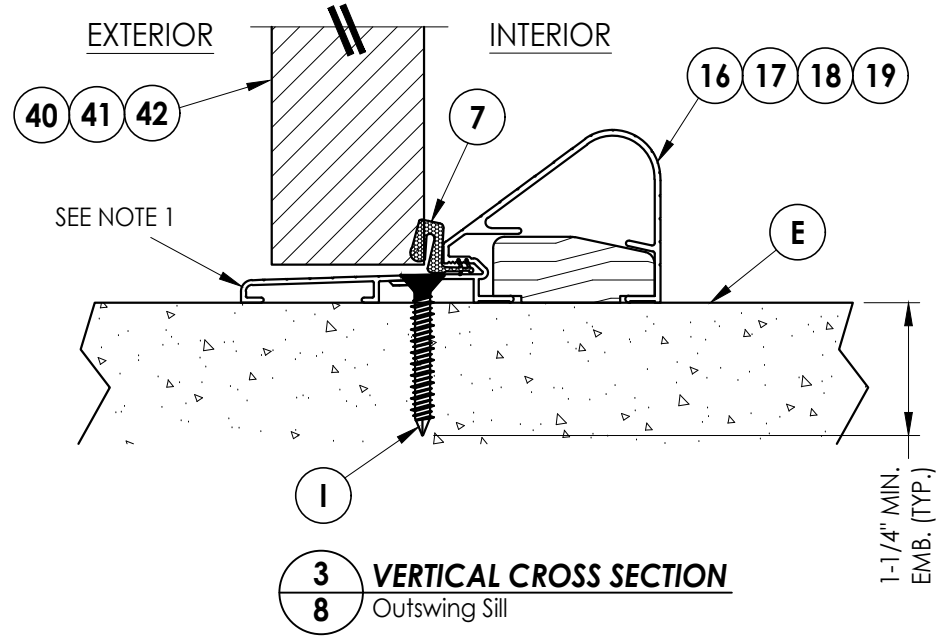
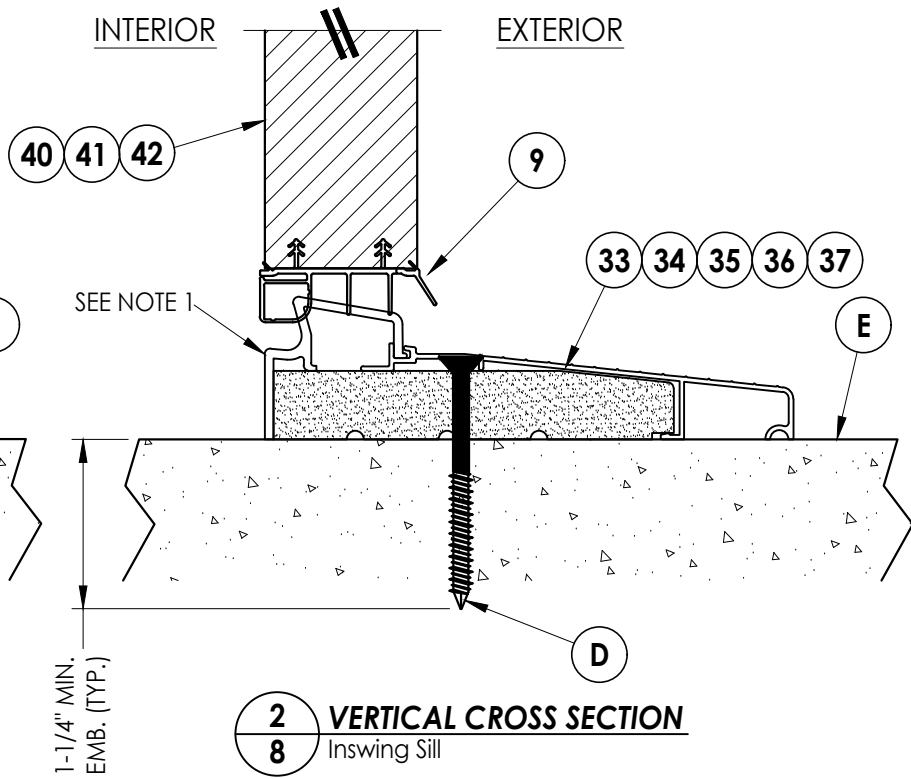
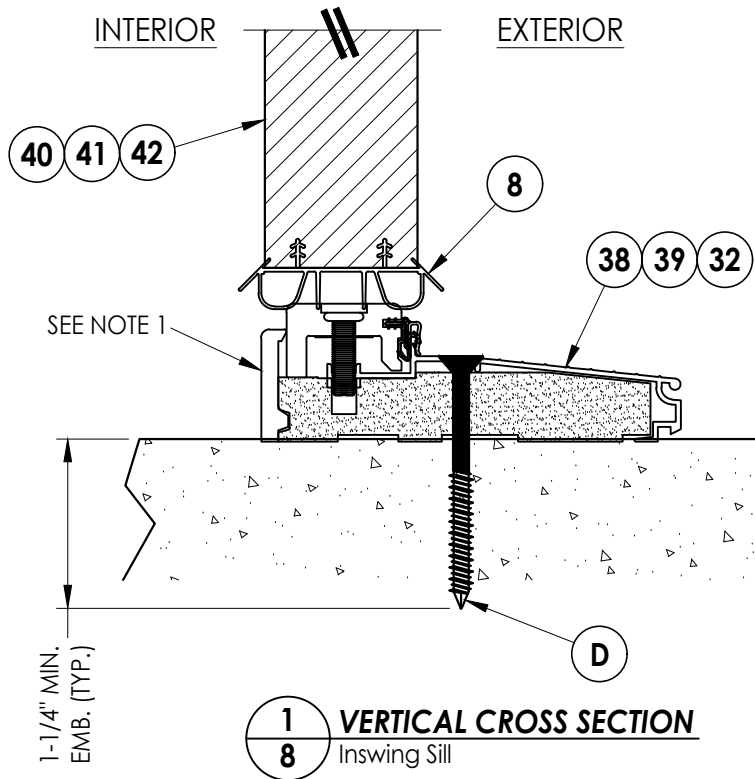
DRAWING NO.:

FL-21142.9

SHEET 7 OF 14

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- Notes:
- Sill Item #'s 17, 18, 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.
  - Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



Documents Prepared By:  
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FBPE Registry No. 9813

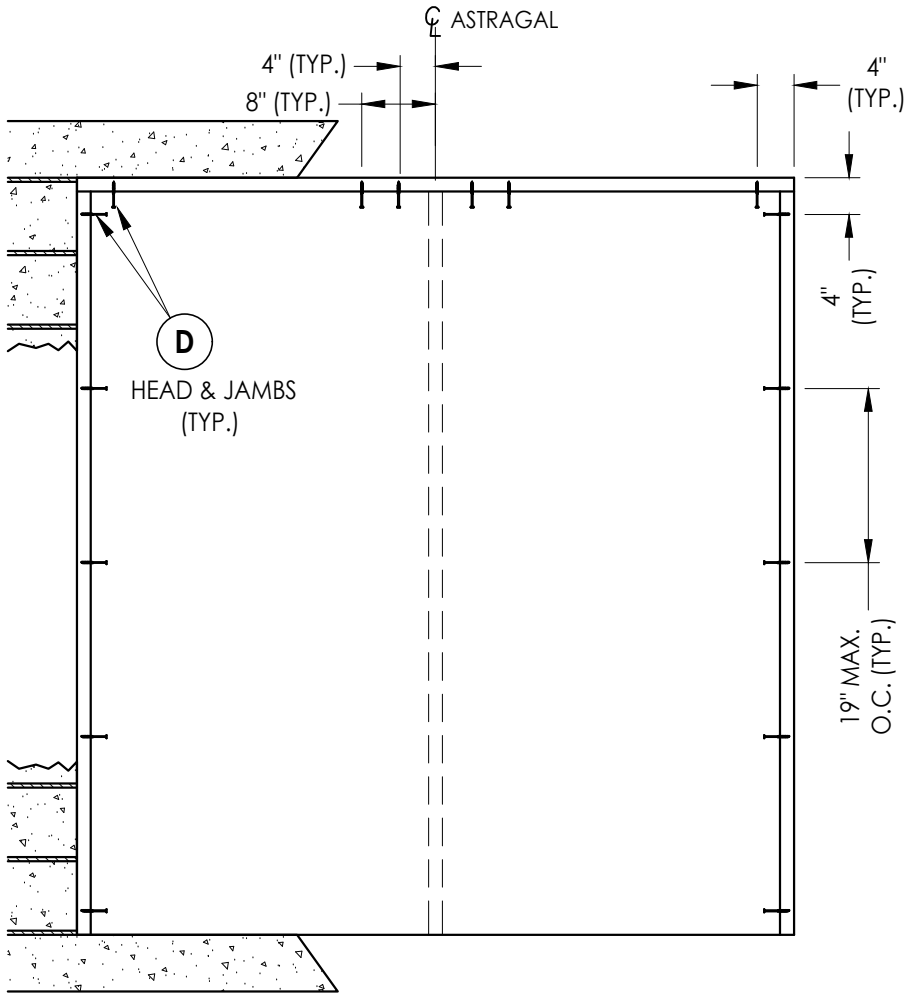
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THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
VERTICAL CROSS  
SECTIONS (THRESHOLDS)

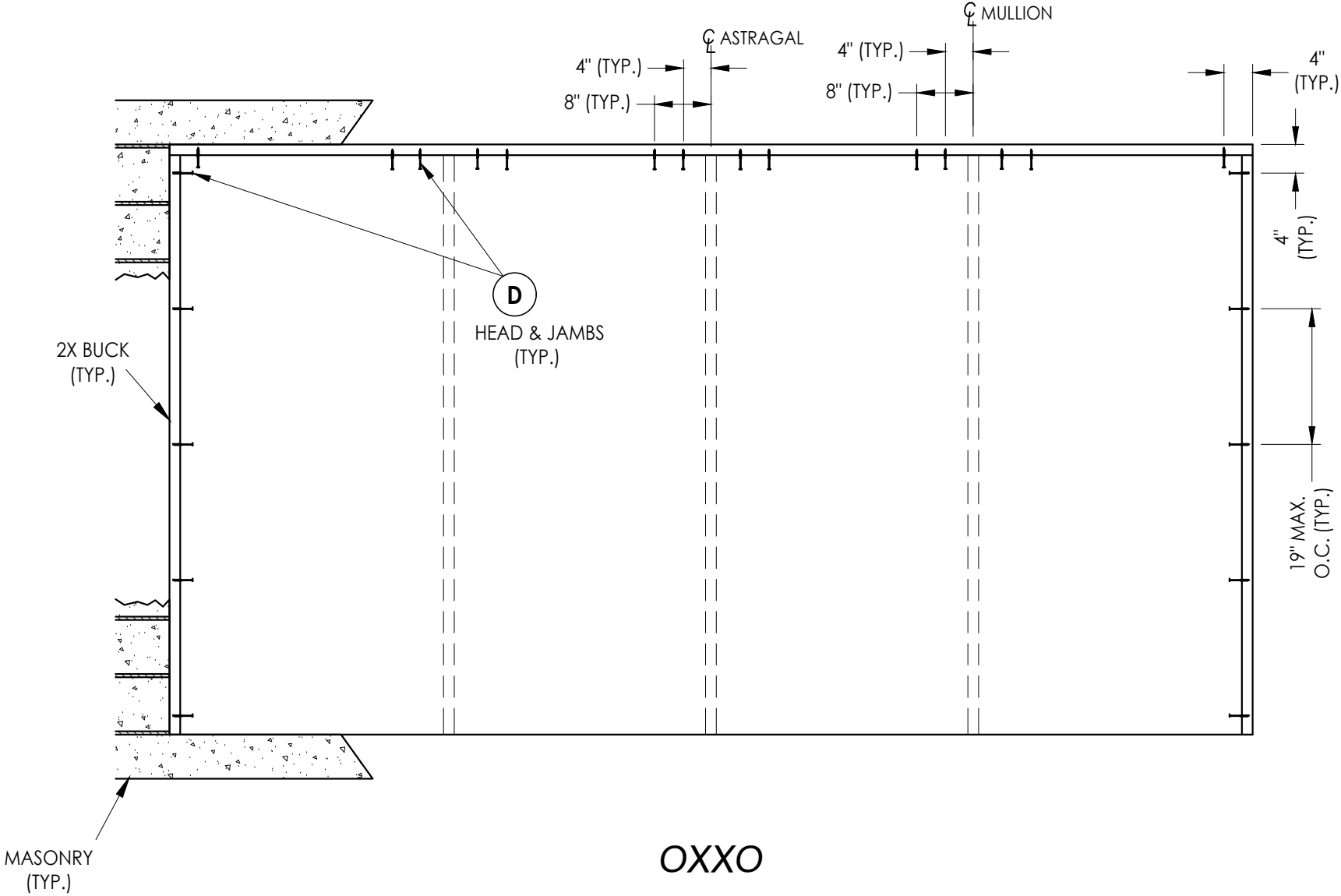
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| 1   | 7/15/20 | UPDATE TO 7th ED (2020) FBC  |

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SCALE: N.T.S.  
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CHK. BY: LFS  
DRAWING NO.: FL-21142.9  
SHEET 8 OF 14

G:\2023 FBC DRAWINGS\Therma-Tru\FL-21142 R3\FL-21142.7-9.dwg



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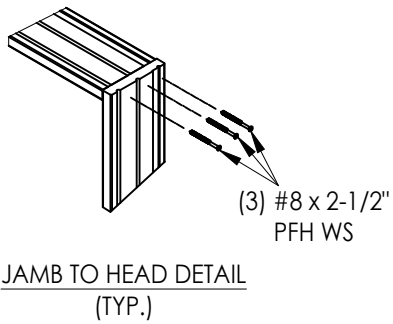
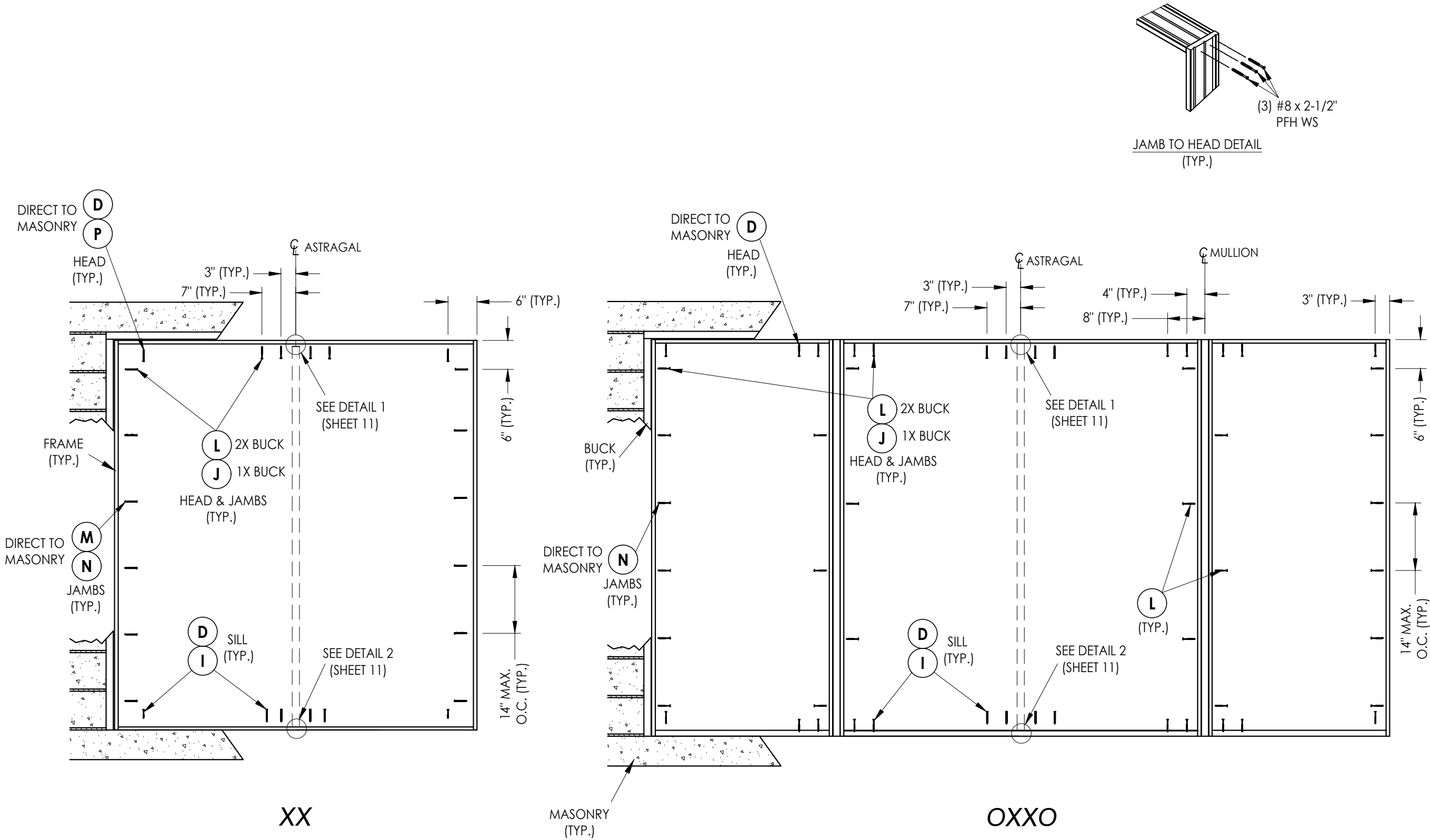


OXXO

**2X BUCK ANCHORING**

|                                                               |         |                          |  |                                                                                                                    |     |  |  |
|---------------------------------------------------------------|---------|--------------------------|--|--------------------------------------------------------------------------------------------------------------------|-----|--|--|
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| PRODUCT:<br>THERMA-TRU<br>FIBERGLASS DOOR                     |         |                          |  | PART OR ASSEMBLY:<br>BUCK ANCHORING                                                                                |     |  |  |
|                                                               |         |                          |  | LFS                                                                                                                | FBC |  |  |
| 2                                                             | 8/18/23 | UPDATE TO 8TH ED. (2023) |  |                                                                                                                    |     |  |  |
| 1                                                             | 7/15/20 | UPDATE TO 7th ED (2020)  |  | PO                                                                                                                 | FBC |  |  |
|                                                               | NO      | DATE                     |  | BY                                                                                                                 |     |  |  |
|                                                               |         |                          |  | REVISIONS                                                                                                          |     |  |  |
| DATE: 12/22/16                                                |         |                          |  |                                                                                                                    |     |  |  |
| SCALE: N.T.S.                                                 |         |                          |  |                                                                                                                    |     |  |  |
| DWG. BY: JK                                                   |         |                          |  |                                                                                                                    |     |  |  |
| CHK. BY: LFS                                                  |         |                          |  |                                                                                                                    |     |  |  |
| DRAWING NO.: FL-21142.9                                       |         |                          |  |                                                                                                                    |     |  |  |
| SHEET 9 OF 14                                                 |         |                          |  |                                                                                                                    |     |  |  |

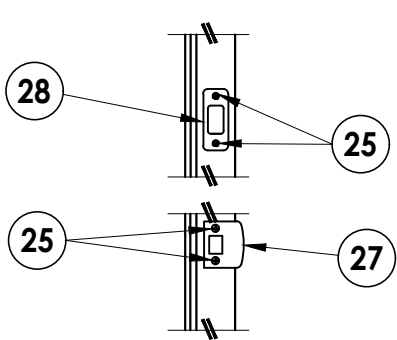
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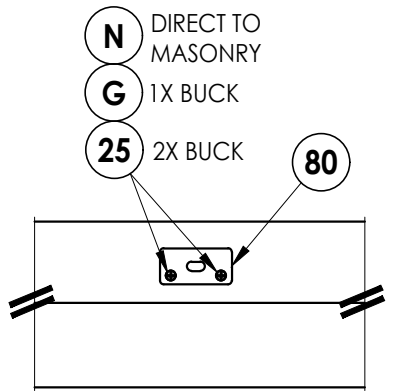
**FRAME ANCHORING**

|                                                               |  |                                                                                                                    |         |
|---------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|---------|
| 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>FRAME ANCHORING                                                                               |         |
|                                                               |  | LFS                                                                                                                | BY      |
|                                                               |  | 2                                                                                                                  | 8/18/23 |
|                                                               |  | 1                                                                                                                  | 7/15/20 |
|                                                               |  | NO.                                                                                                                | DATE    |
| DATE: 12/22/16                                                |  | REVISIONS                                                                                                          |         |
| SCALE: N.T.S.                                                 |  |                                                                                                                    |         |
| DWG. BY: JK                                                   |  |                                                                                                                    |         |
| CHK. BY: LFS                                                  |  |                                                                                                                    |         |
| DRAWING NO.: FL-21142.9                                       |  |                                                                                                                    |         |
| SHEET 10 OF 14                                                |  |                                                                                                                    |         |

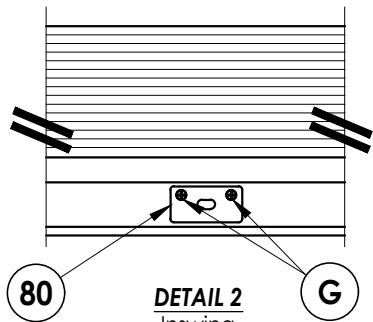
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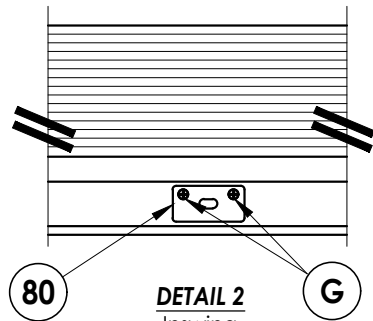
**LATCH & DEADBOLT DETAIL**  
Schlage / Kwikset



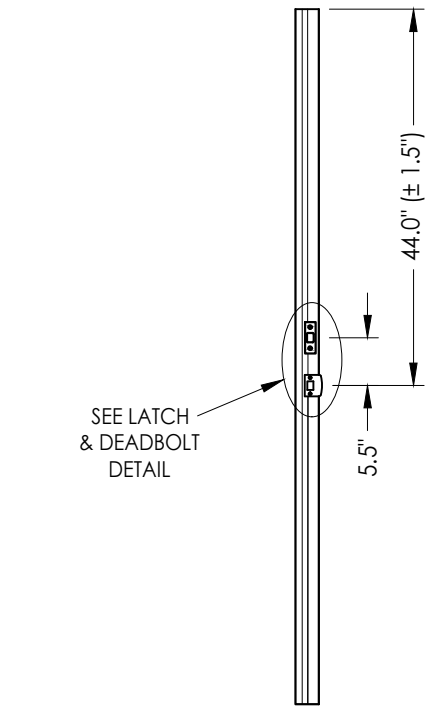
**DETAIL 1**  
Coastal Astragal Strike Plate @ Head



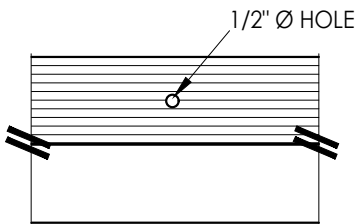
**DETAIL 2**  
Inswing  
Coastal Astragal Strike Plate @ Sill



**DETAIL 2**  
Inswing  
Coastal Astragal Strike Plate @ Sill

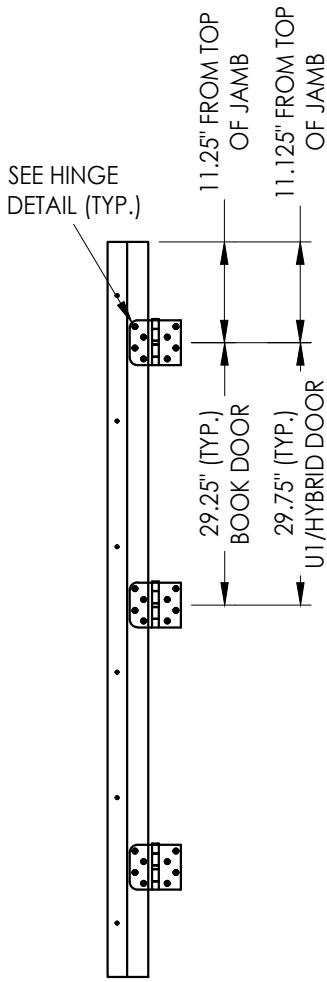


**ASTRAGAL**  
Latch and Deadbolt

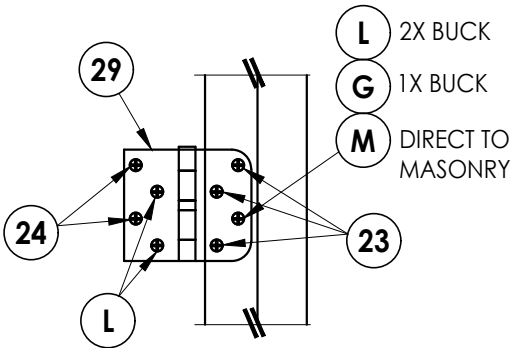


**DETAIL 2**  
Outswing  
Astragal Bolt Hole @ Sill

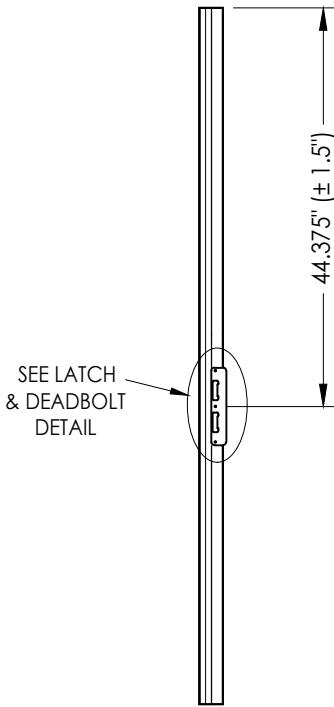
**LATCH & DEADBOLT STRIKE DETAILS**



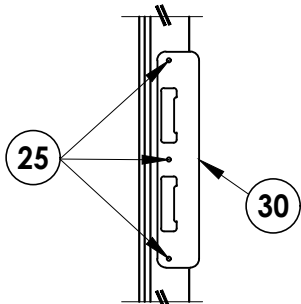
**HINGE JAMB**



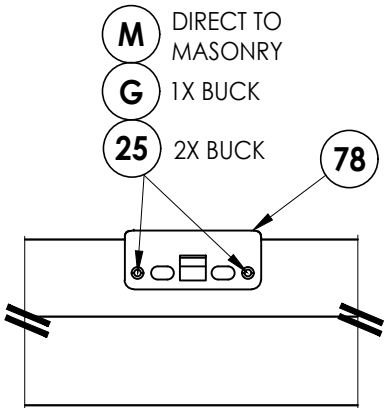
**HINGE DETAIL**



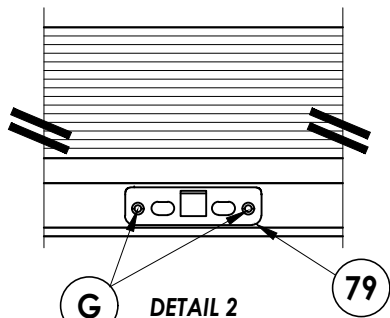
**ASTRAGAL**  
Multipoint Lock



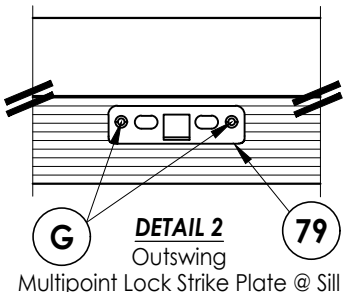
**LATCH & DEADBOLT DETAIL**  
Multipoint Lock



**DETAIL 1**  
Multipoint Lock Strike Plate @ Head



**DETAIL 2**  
Inswing  
Multipoint Lock Strike Plate @ Sill



**DETAIL 2**  
Outswing  
Multipoint Lock Strike Plate @ Sill

**MULTIPOINT LOCK STRIKE DETAILS**

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

**BUILDING CONSULTANTS, INC.**  
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Phone No.: 813.659.9197  
FBPE Registry No. 9813

*RW*

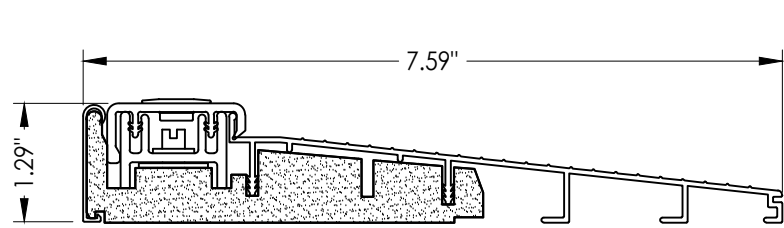
|          |                                       |  |
|----------|---------------------------------------|--|
| PRODUCT: | THERMA-TRU<br>FIBERGLASS DOOR         |  |
|          | PART OR ASSEMBLY:<br>HARDWARE DETAILS |  |

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

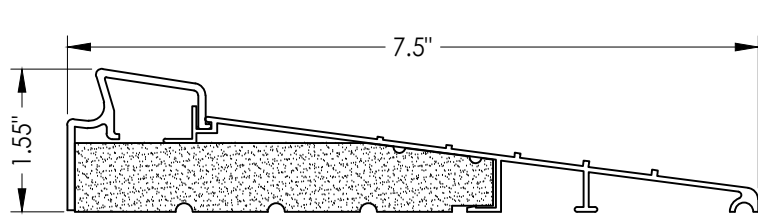
|              |            |
|--------------|------------|
| DATE:        | 12/22/16   |
| SCALE:       | N.T.S.     |
| DWG. BY:     | JK         |
| CHK. BY:     | LFS        |
| DRAWING NO.: | FL-21142.9 |
| SHEET        | 11 OF 14   |



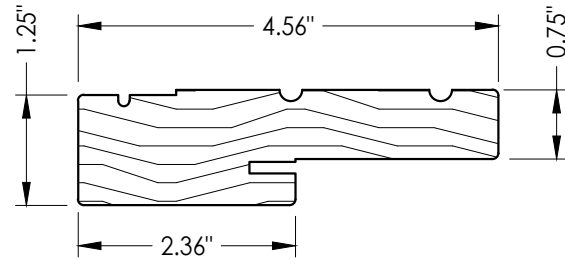
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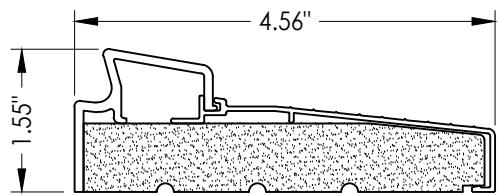
**32 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill 7-1/2"



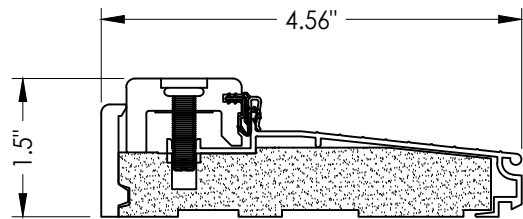
**37 INSWING THRESHOLD**  
Inswing Basic Fixed 7-1/2" Sill



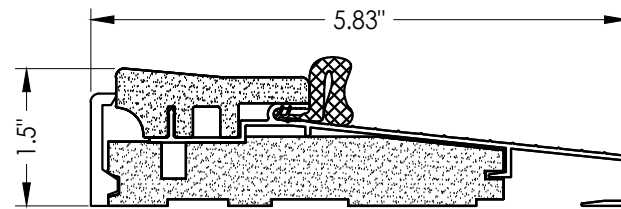
**1 WOOD JAMB**



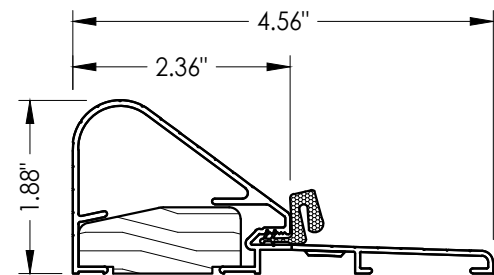
**33 INSWING THRESHOLD**  
Inswing Basic Fixed Sill



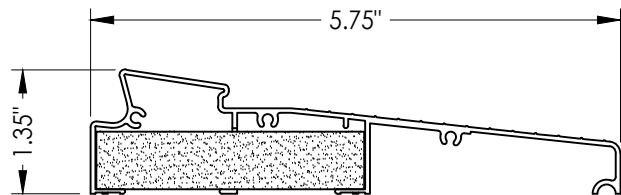
**38 INSWING THRESHOLD**  
Inswing Composite Adjustable Sill



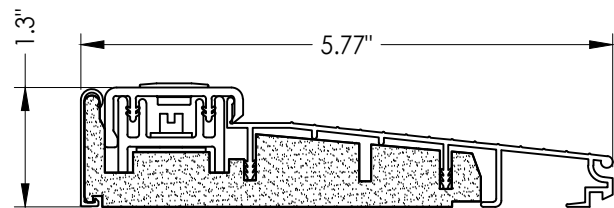
**16 OUTSWING THRESHOLD**  
Composite Sill



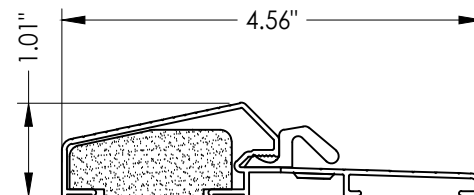
**19 COASTAL OUTSWING THRESHOLD**  
Wood / Aluminum Sill



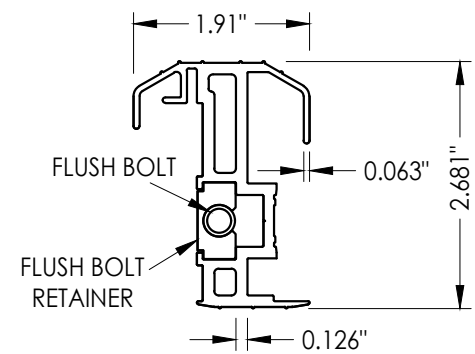
**34 INSWING THRESHOLD**  
Inswing Moderate Climate Sill 1-3/8"



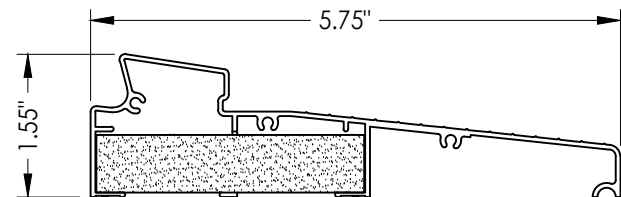
**39 INSWING THRESHOLD**  
Inswing Basic Composite Adjustable Sill



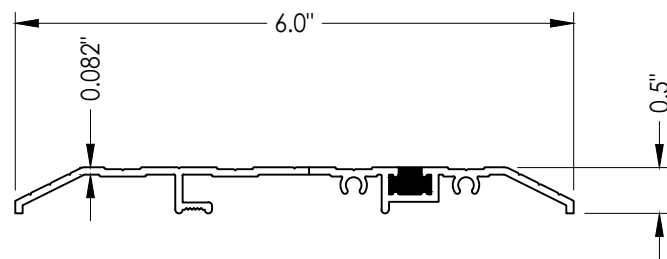
**17 OUTSWING THRESHOLD**  
Composite / Aluminum Sill



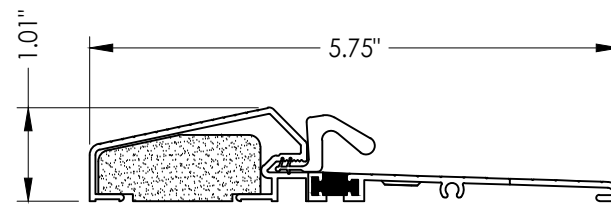
**20 COASTAL ALUMINUM ASTRAGAL**



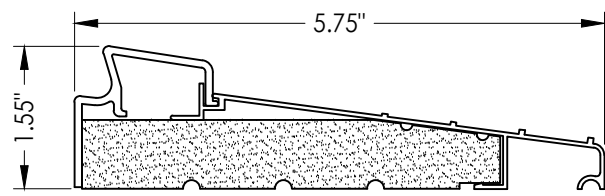
**35 INSWING THRESHOLD**  
Inswing Moderate Climate Sill



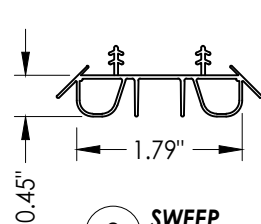
**15 PUBLIC ACCESS THRESHOLD**



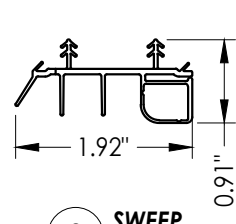
**18 OUTSWING THRESHOLD**  
Composite / Aluminum Sill  
(Thermal Break)



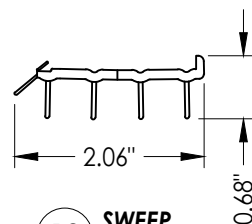
**36 INSWING THRESHOLD**  
Inswing Basic Fixed 5-3/4" Sill



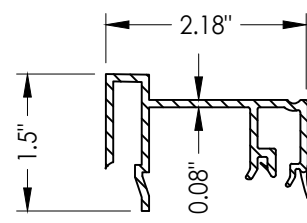
**8 SWEEP**



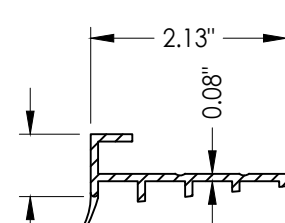
**9 SWEEP**



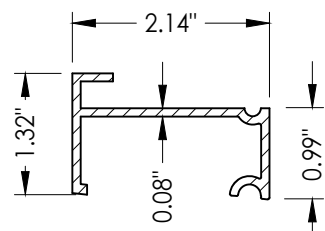
**10 SWEEP**



**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                    | 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-21142.9  
SHEET 13 OF 14

G:\2023 FBC DRAWINGS\Therma-Tru\FL-21142 R3\FL-21142.7-9.dwg

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

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 ULTRACON® | 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.

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

PRODUCT:  
THERMA-TRU  
FIBERGLASS DOOR

PART OR ASSEMBLY:  
BILL OF MATERIALS

DATE: 12/22/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21142.9

SHEET 14 OF 14

REVISIONS

|   |         |                          |     |     |
|---|---------|--------------------------|-----|-----|
| 2 | 8/18/23 | UPDATE TO 8TH ED. (2023) | FBC | LFS |
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|   |         | NO. DATE                 |     | BY  |

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