



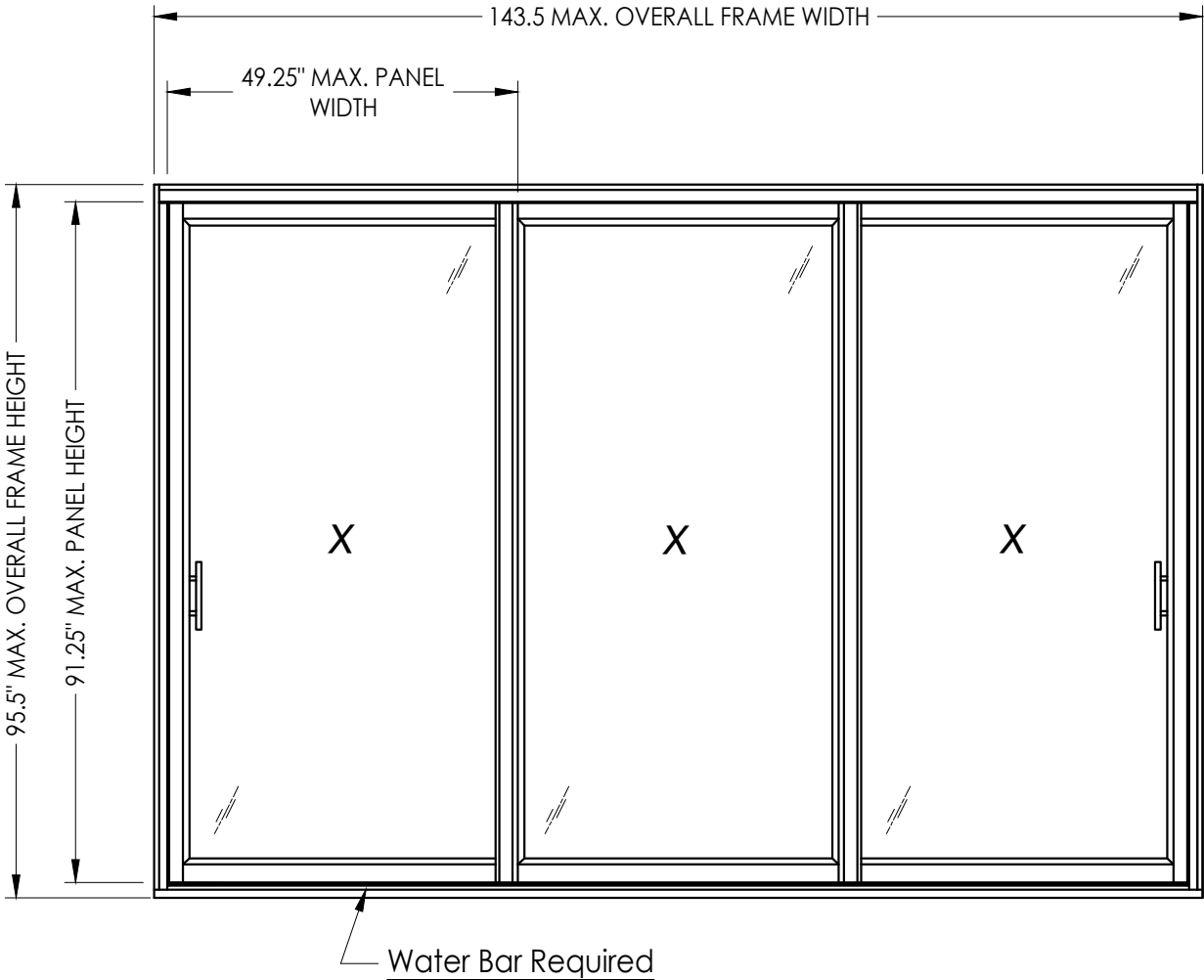
250 Staunton Turnpike, Parkersburg, WV 26104

8400 Series  
Vinyl Sliding Patio Door  
"NON-IMPACT"

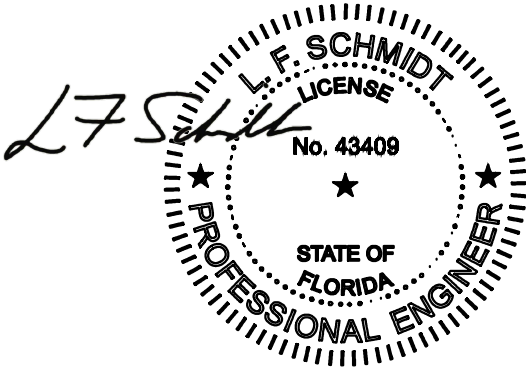
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

| TABLE OF CONTENTS |                                                     |
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| SHEET #           | DESCRIPTION                                         |
| 1                 | Typical elevation, design pressures & general notes |
| 2                 | Horizontal and vertical cross sections              |
| 3                 | Horizontal and vertical cross sections              |
| 4                 | Buck & frame anchoring                              |
| 5                 | Components                                          |
| 6                 | Bill of materials & glazing detail                  |



| OVERALL<br>FRAME<br>DIMENSION | MAX.<br>PANEL<br>DIMENSION | MAX.<br>D.L.O.<br>DIMENSION | GLASS<br>TYPE | DESIGN PRESSURE (PSF) |          |
|-------------------------------|----------------------------|-----------------------------|---------------|-----------------------|----------|
|                               |                            |                             |               | POSITIVE              | NEGATIVE |
| 143.5" x 95.5"                | 49.25" X 91.25"            | 42.375" X 85.0"             | G1            | +50.0                 | -50.0    |



Digitally signed by Lyndon F Schmidt  
Date: 2026.07.27 14:25:18 -04'00'

This item has been digitally signed and sealed by L. F. Schmidt, P.E. on the date adjacent to the seal.  
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

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

PRODUCT:  
8400 SERIES VINYL  
SLIDING PATIO DOORS

DATE: 7/18/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:  
FL-16216.15

SHEET 1 OF 6

Part or Assembly:  
TYPICAL ELEVATION, DESIGN  
PRESSURES & GENERAL NOTES

REVISIONS

2

7/01/26

UPDATE TO 9TH ED. (2026)

FBC

LFS

1

7/06/23

UPDATE TO 8TH ED. (2023)

FBC

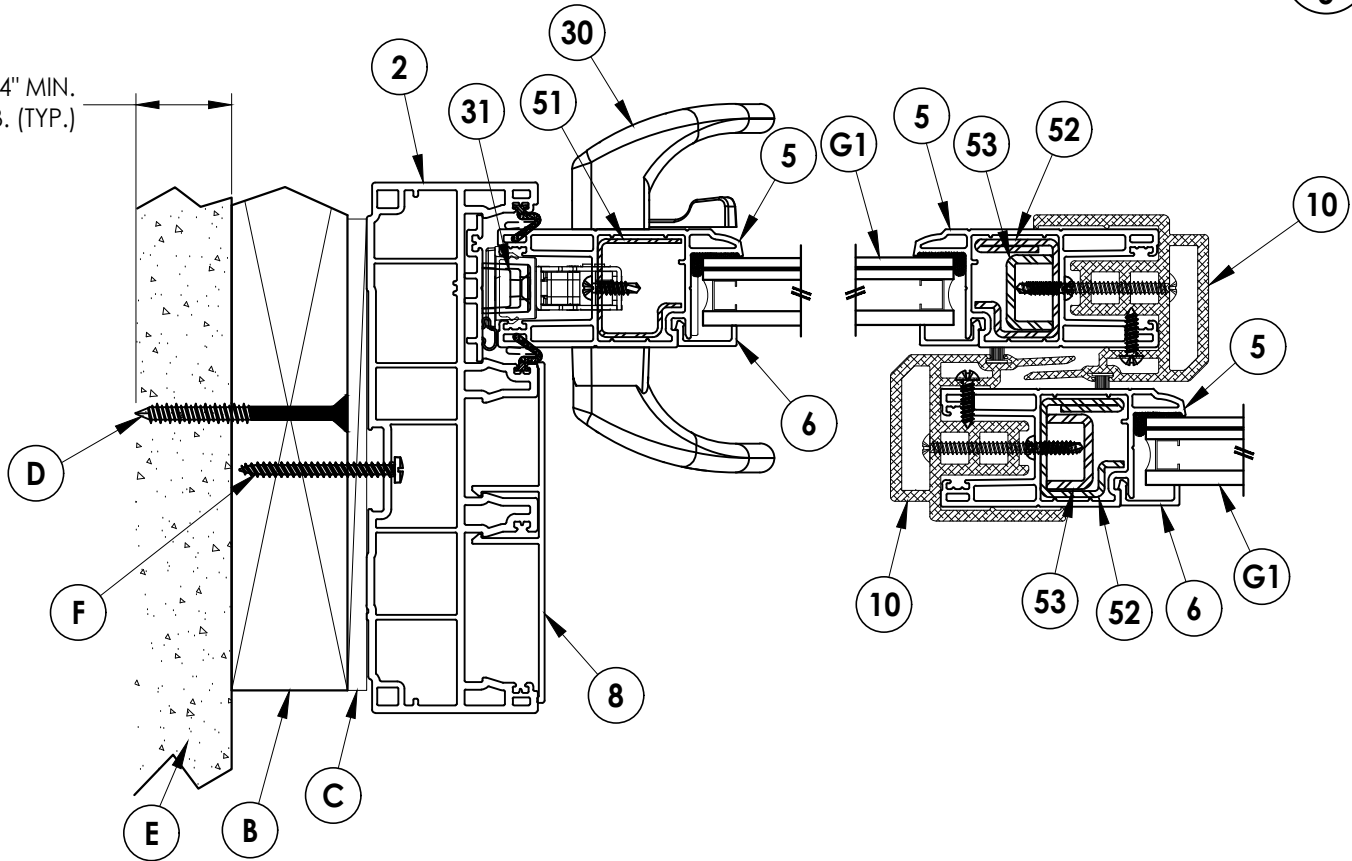
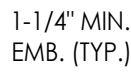
LFS

NO.

DATE

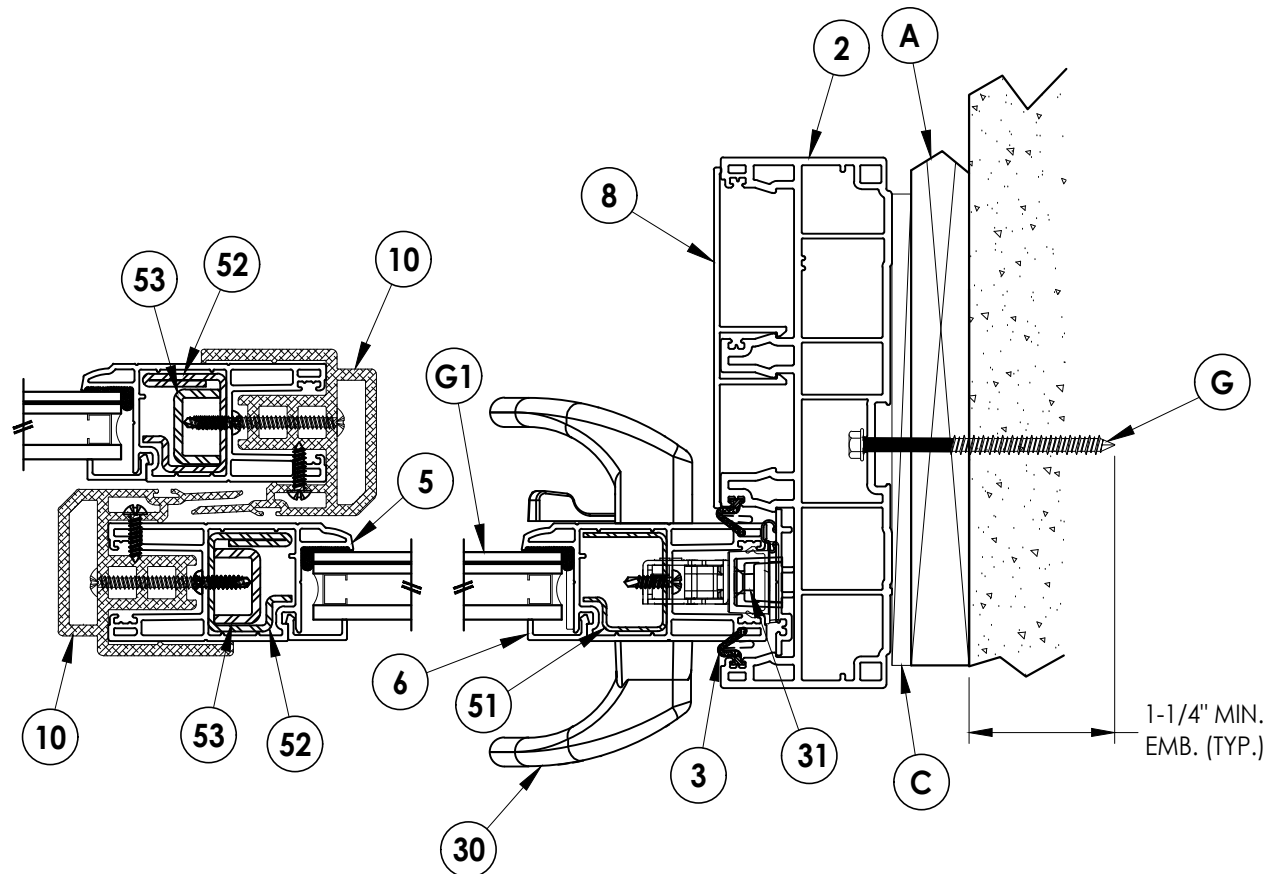
BY

Building Consultants, Inc.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

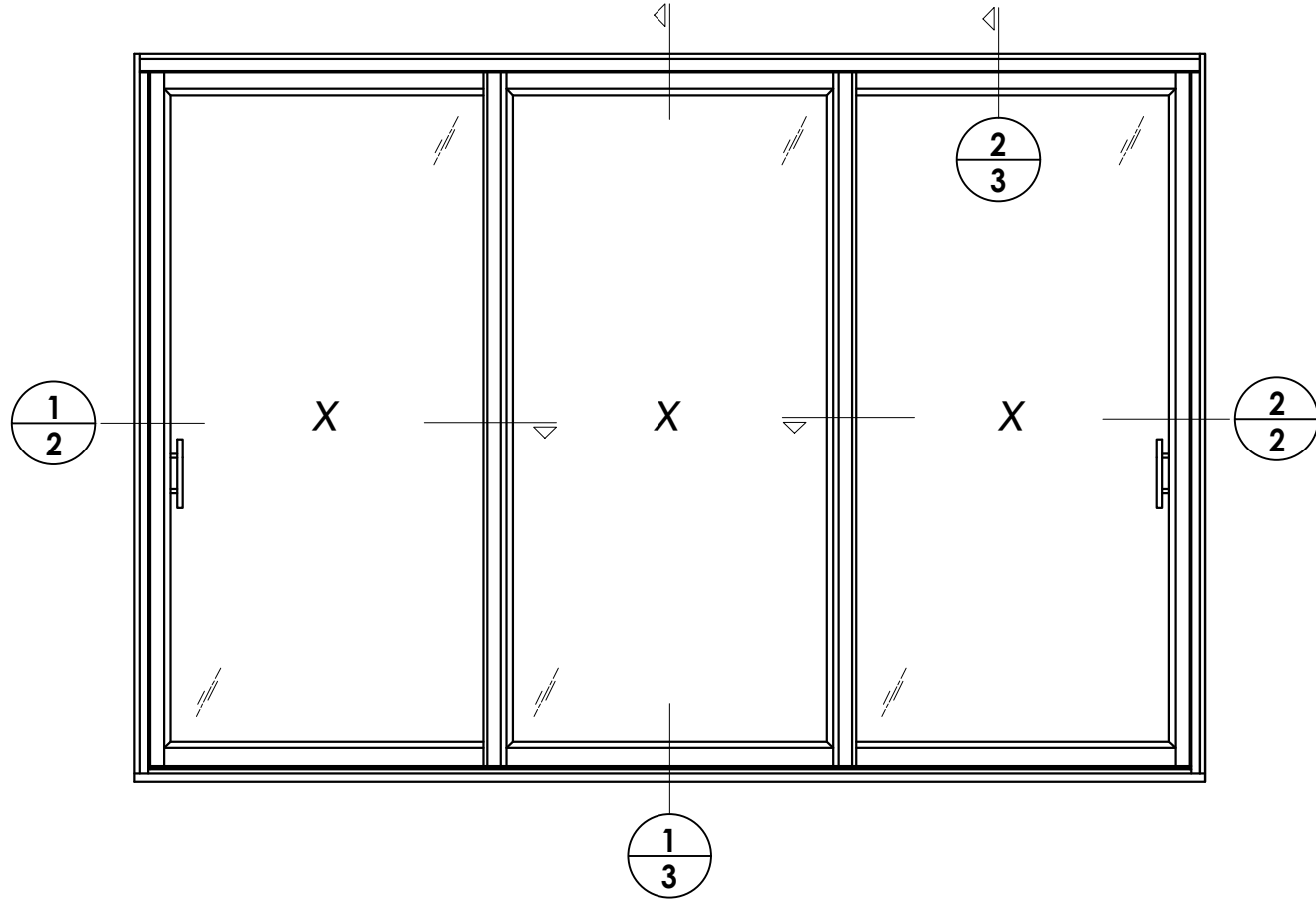


## 1 **HORIZONTAL CROSS SECTION**

### 2 Shown w/ 2X Buck



**2 HORIZONTAL CROSS SECTION**  
2 Shown w/ 1X Buck



|     |         |                          |     |     |           |
|-----|---------|--------------------------|-----|-----|-----------|
|     |         |                          |     |     |           |
|     |         |                          |     |     |           |
|     |         |                          |     |     |           |
|     |         |                          |     |     |           |
|     |         |                          |     |     |           |
| 2   | 7/01/26 | UPDATE TO 9TH ED. (2026) | FBC | LFS |           |
| 1   | 7/06/23 | UPDATE TO 8TH ED. (2023) | FBC | LFS |           |
| NO. | DATE    |                          |     | BY  |           |
|     |         |                          |     |     | REVISIONS |

DATE: 7/18/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: *RW*

DRAWING NO.:

FL-16216.15

SHEET 2 OF 6

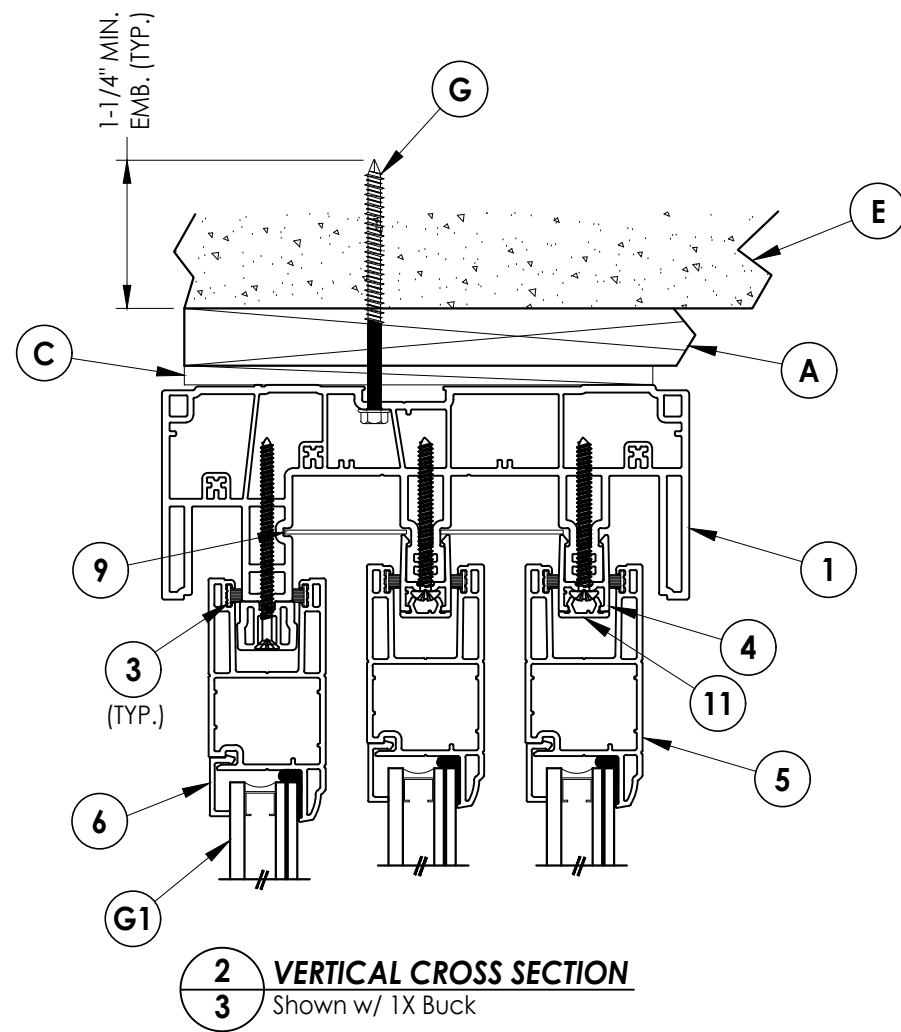
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***RW***  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

**PRODUCT:** 8400 SERIES VINYL  
SLIDING PATIO DOORS

**PART OR ASSEMBLY:**  
**HORIZONTAL & VERTICAL  
CROSS SECTIONS**

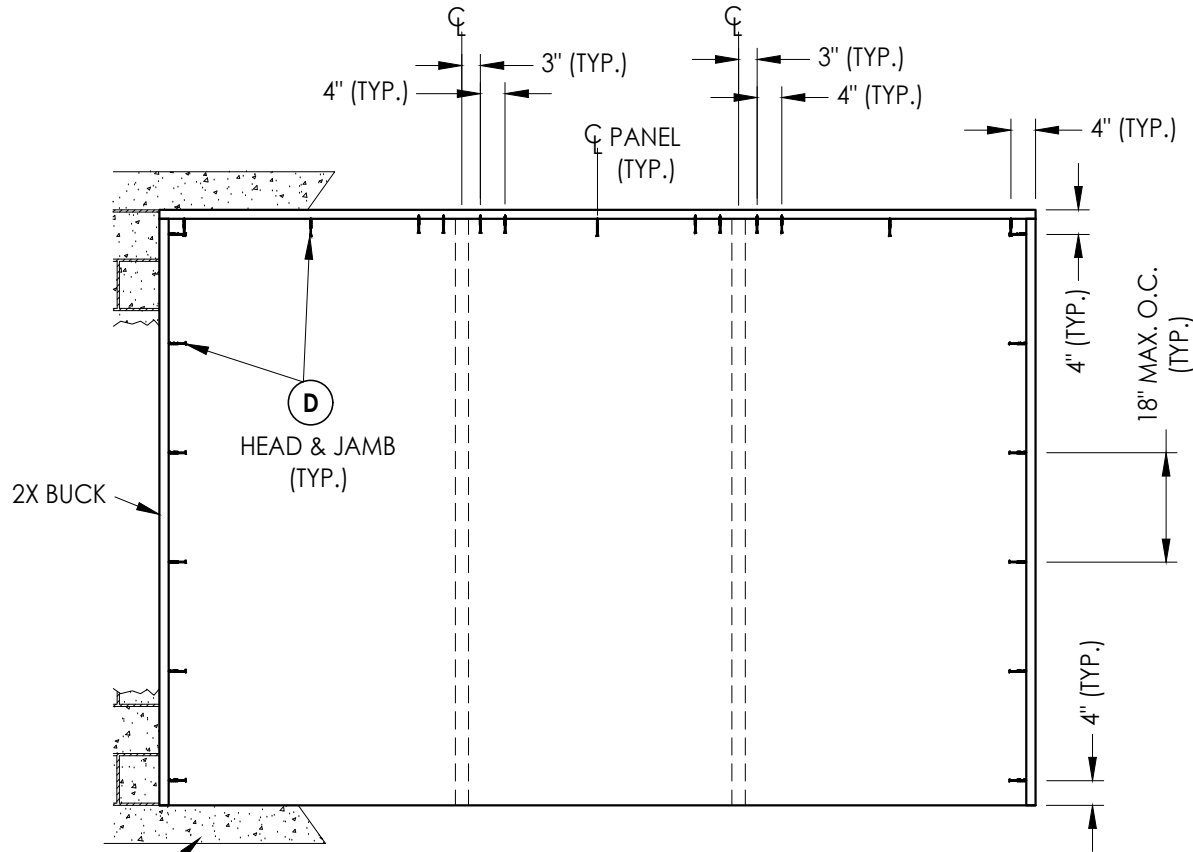
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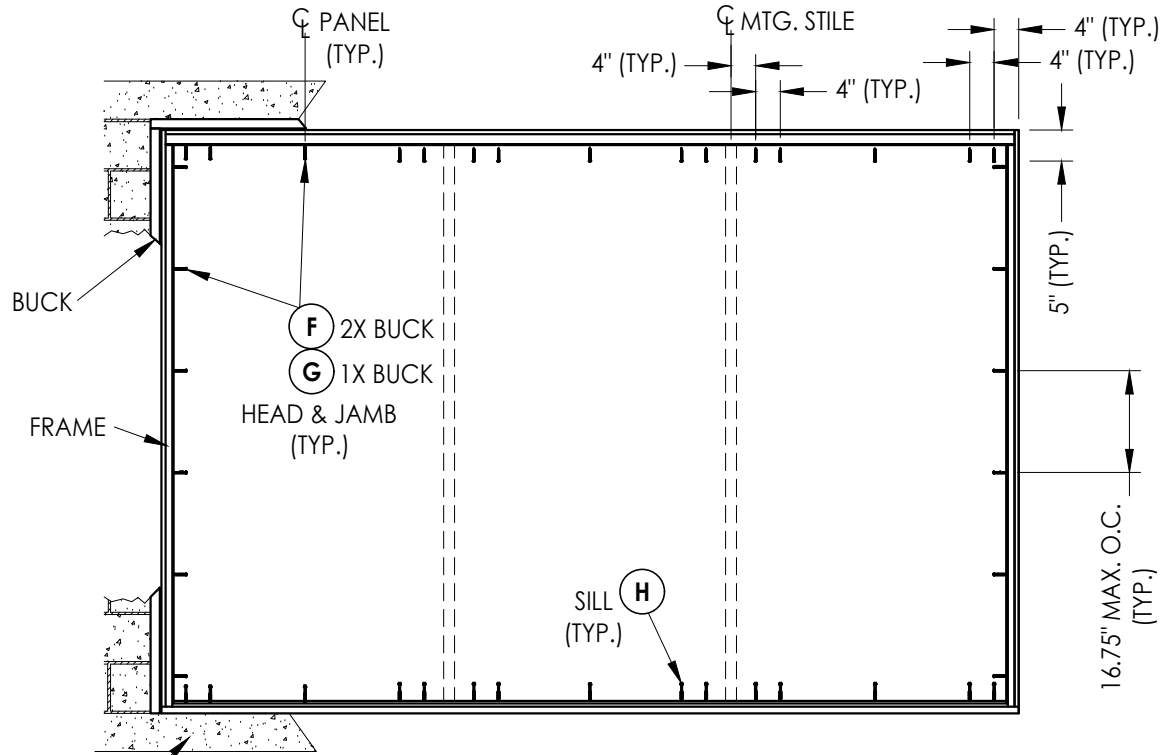
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***R<sup>g</sup>W*** BUILDING CONSULTANTS, INC.  
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**BUCK ANCHORING  
MASONRY**



**FRAME ANCHORING  
2X/1X Buck**

**CORROSION RESISTANCE - SALTWATER ENVIRONMENT**

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

**CONCRETE ANCHOR NOTES:**

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

| ANCHOR TYPE      | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW TAPCON®      | 1/4"        | 1-1/4"         | 2"                             | 4"                                |
| DeWALT ULTRACON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |

**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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.FBPE Registry No. 9813

PRODUCT:  
8400 SERIES VINYL  
SLIDING PATIO DOORS

PART OR ASSEMBLY:  
BUCK & FRAME  
ANCHORING

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 2   | 7/01/26 | UPDATE TO 9TH ED. (2026) FBC |
| 1   | 7/06/23 | UPDATE TO 8TH ED. (2023) FBC |

DATE: 7/18/22

SCALE: N.T.S.

DWG. BY: LFS

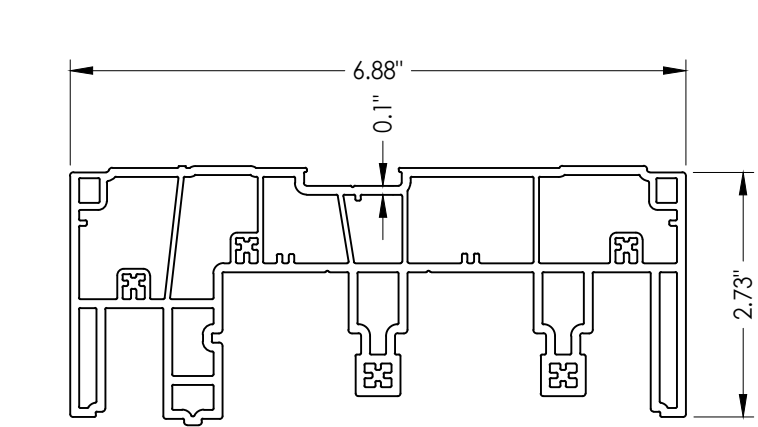
CHK. BY: RW

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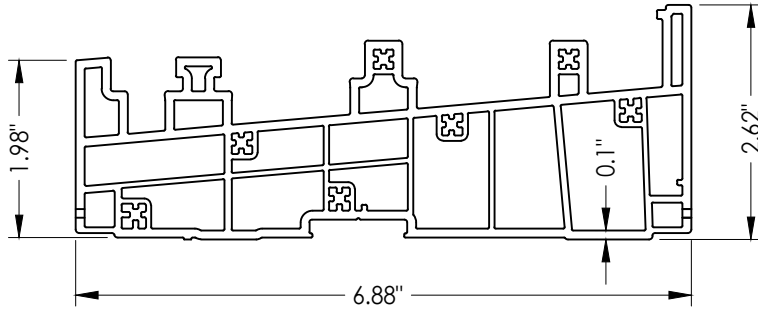
FL-16216.15

SHEET 4 OF 6

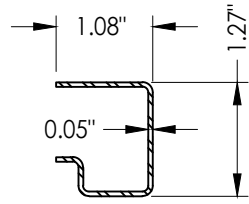
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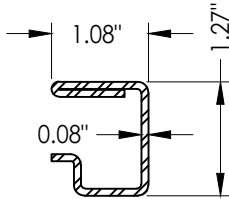
1 FRAME HEAD



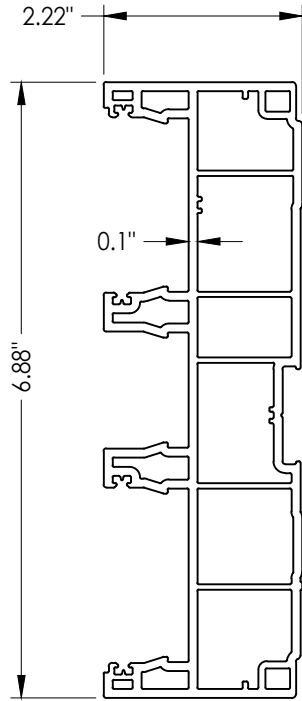
12 FRAME SILL



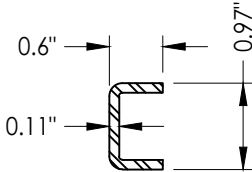
51 REINFORCEMENT  
Lock Stile



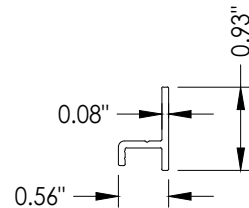
52 REINFORCEMENT  
Meeting rail



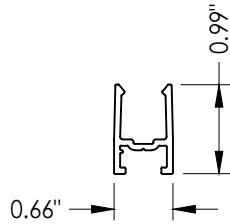
2 FRAME JAMB



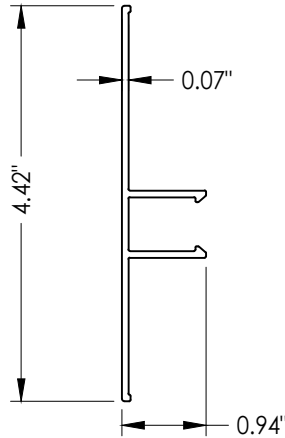
53 REINFORCEMENT  
Meeting rail



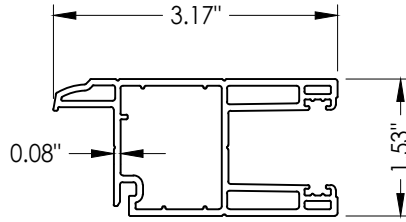
55 WATER BAR



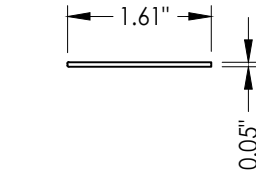
4 HEAD TRACK



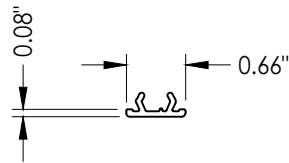
8 JAMB COVER



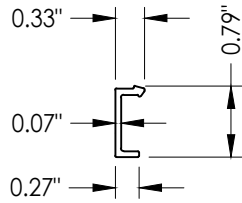
5 STILE & RAIL



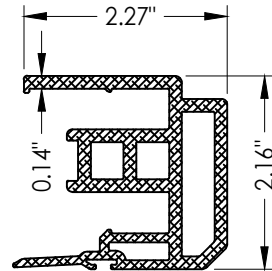
9 HEAD COVER



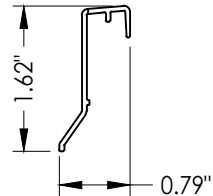
11 HEAD COVER RAIL



6 GLAZING BEAD



10 INTERLOCK



13 SILL CLADDING

DATE: 7/18/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

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FL-16216.15

SHEET 5 OF 6

PRODUCT:  
8400 SERIES VINYL  
SLIDING PATIO DOORS

PART OR ASSEMBLY:  
COMPONENTS

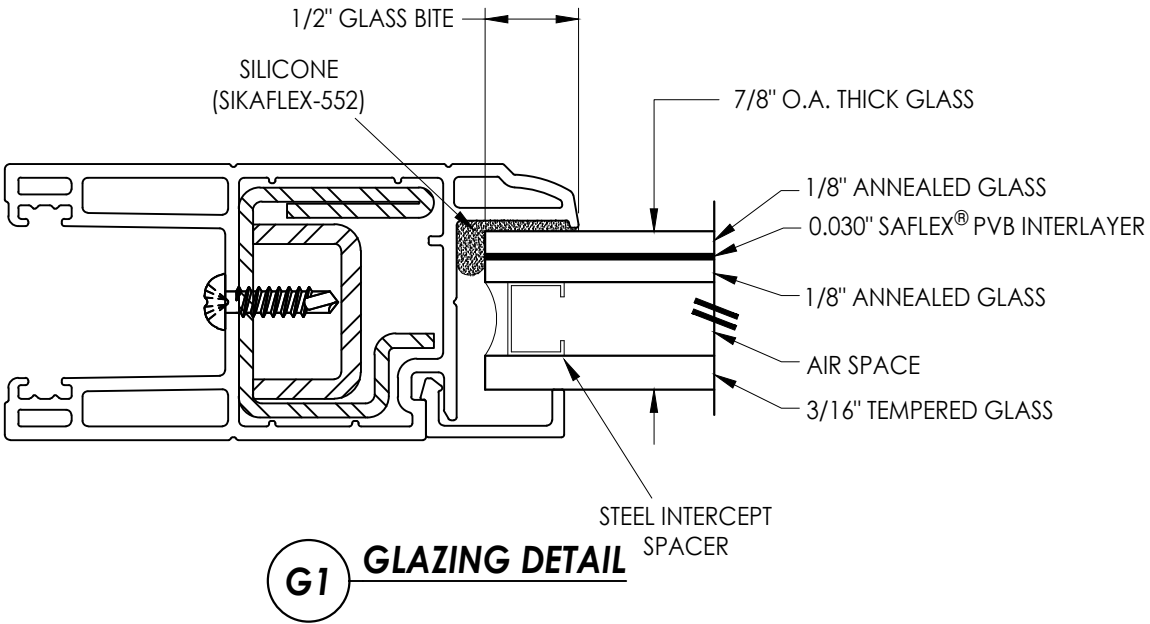
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| BILL OF MATERIALS |                                                                                                |          |
|-------------------|------------------------------------------------------------------------------------------------|----------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL |
| A                 | 1X BUCK (G >= 0.42)                                                                            | WOOD     |
| B                 | 2X BUCK (G >= 0.42)                                                                            | WOOD     |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -        |
| D                 | 1/4" X 2-3/4" FH 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 |
| F                 | #10 X 2 PH SMS (1-3/8" MIN. EMBEDMENT)                                                         | STEEL    |
| G                 | 1/4" X 3-1/4" HWH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL    |
| H                 | 1/4" X 2-3/4" HWH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL    |
| 1                 | FRAME HEAD*                                                                                    | PVC      |
| 2                 | FRAME JAMB*                                                                                    | PVC      |
| 3                 | WEATHERSTRIP                                                                                   | -        |
| 4                 | HEAD TRACK*                                                                                    | PVC      |
| 5                 | STILE & RAIL*                                                                                  | PVC      |
| 6                 | GLAZING BEAD (1" GLAZING)*                                                                     | PVC      |
| 8                 | JAMB COVER*                                                                                    | PVC      |
| 9                 | HEAD COVER*                                                                                    | PVC      |
| 10                | INTERLOCK                                                                                      | ALUM     |
| 11                | HEAD COVER RAIL*                                                                               | PVC      |
| 12                | SILL*                                                                                          | PVC      |
| 13                | SILL CLADDING                                                                                  | ALUM     |
| 16                | SLIDING RAIL                                                                                   | ALUM     |
| 20                | TANDEM WHEEL                                                                                   | -        |
| 21                | TANDEM WHEEL SETTING BLOCK                                                                     | PVC      |
| 30                | HANDLE KIT                                                                                     | -        |
| 31                | STAINLESS STEEL DOUBLE POINT MORTISE LOCK KIT                                                  | STEEL    |
| 32                | INERTIOR HANDLE KIT                                                                            | -        |
| 51                | LOCK STILE REINFORCEMENT                                                                       | STEEL    |
| 52                | MEETING STILE REINFORCEMENT                                                                    | STEEL    |
| 53                | MEETING STILE REINFORCEMENT                                                                    | STEEL    |
| 55                | WATER BAR                                                                                      | ALUM     |
| 56                | #8 X 1" PPH SMS                                                                                | SS       |

\* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".

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|              |                      |
|--------------|----------------------|
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| SCALE:       | N.T.S.               |
| DWG. BY:     | LFS                  |
| CHK. BY:     | RW                   |
| DRAWING NO.: | FL-16216.15          |
| SHEET        | <u>6</u> OF <u>6</u> |

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