



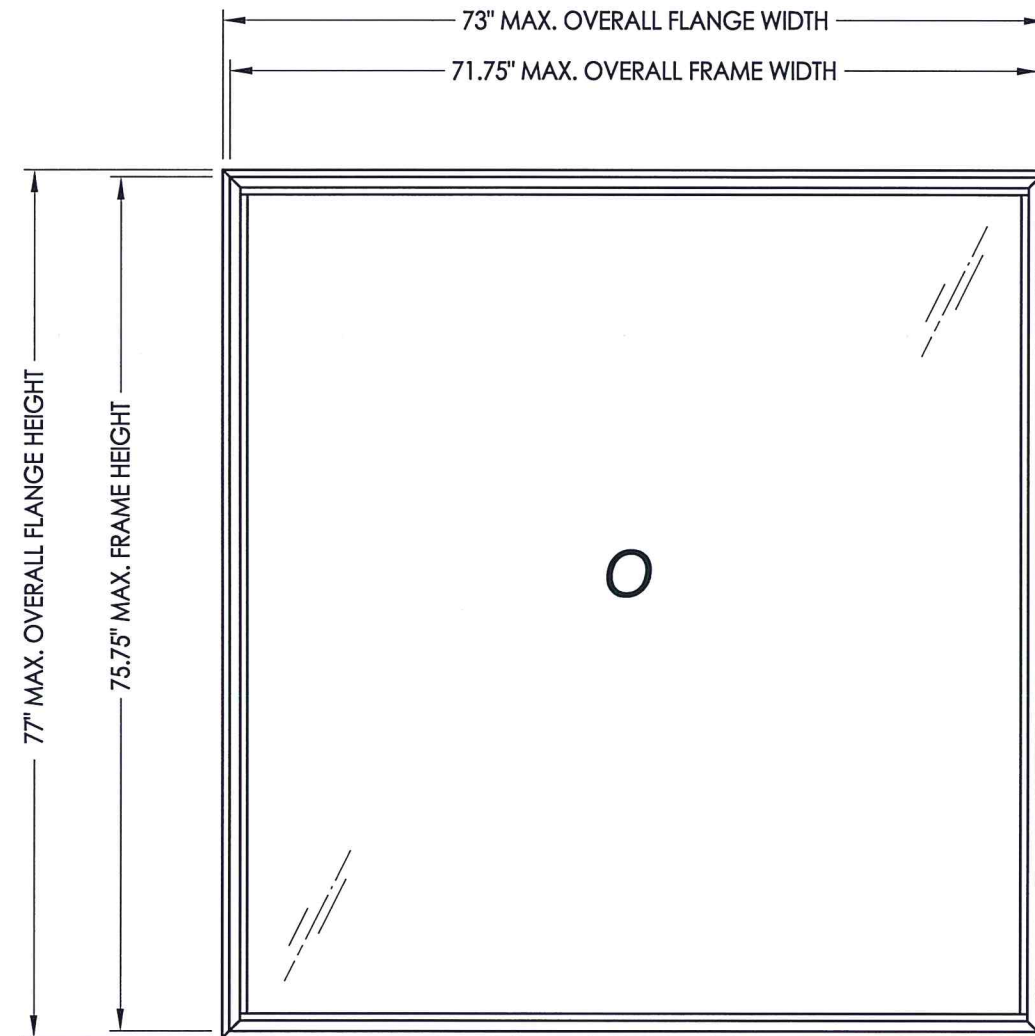
4650 Fixed Window Impact Rated - HVHZ w/ Flange

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 Florida Building Code and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" 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.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. This product meets water infiltration requirements for "HVHZ".

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1	Typical elevations, design pressures & general notes
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6	Bill of materials, glazing details and components



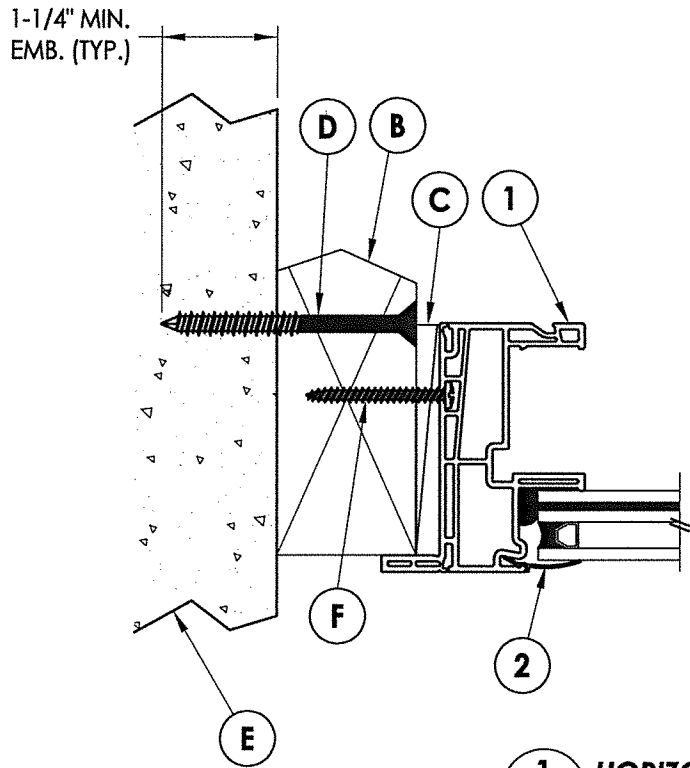
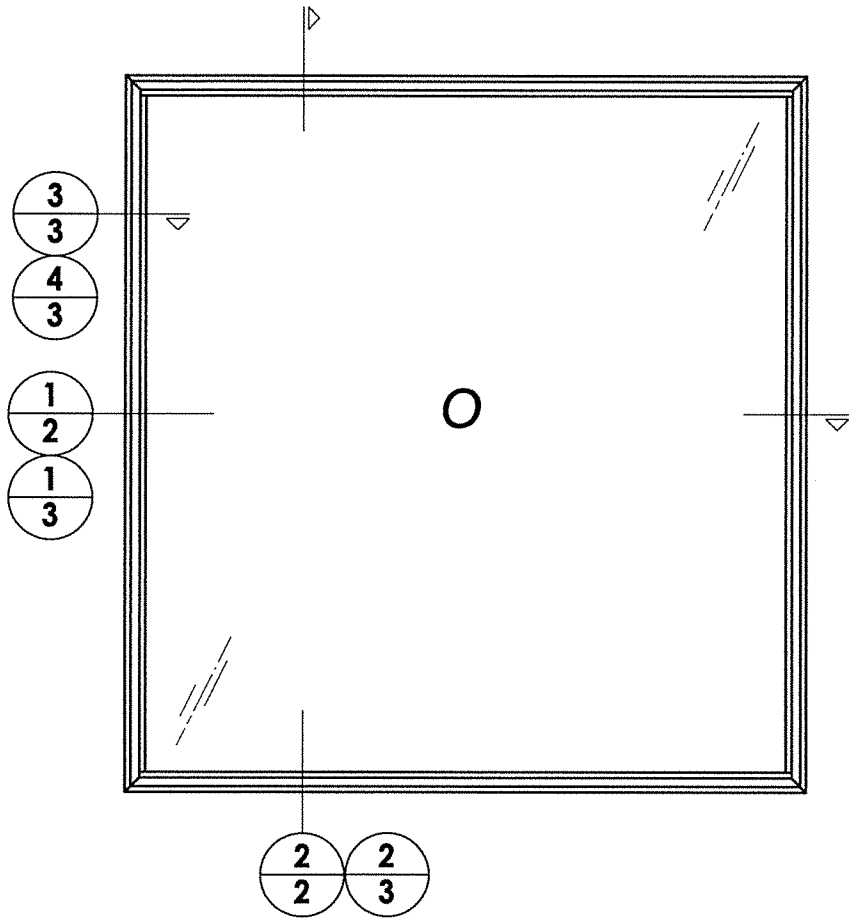
NOTE: VERTICAL ORIENTATION SHOWN (HORIZONTAL ORIENTATION ALSO APPROVED)

OVERALL FLANGE DIMENSION	OVERALL FRAME DIMENSION	OVERALL DAY LIGHT DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POS.	NEG.
38.0" X 73.0"	36.75" X 71.75"	33.625" X 68.625"	G1	+40.0	-40.0
73.0" X 77.0"	71.75" X 75.75"	68.625" X 72.625"	G2	+55.0	-55.0

Note: This product is not approved for use above 30 feet in the "HVHZ".

 August 18, 2020 Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		Doers	
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
REVISIONS		DATE: 12/10/12	
NO.		DATE	
4	8/04/20	UPDATE TO 7TH ED. (2020)	FBC
3	9/22/17	UPDATE TO 6TH ED. (2017)	FBC
2	6/25/15	UPDATE TO 5TH ED. (2014)	FBC
1	2/14/13	ADDED HVHZ HEIGHT RESTRICTION	LFS
BY		JK	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-15099.12	
SHEET		1 OF 6	

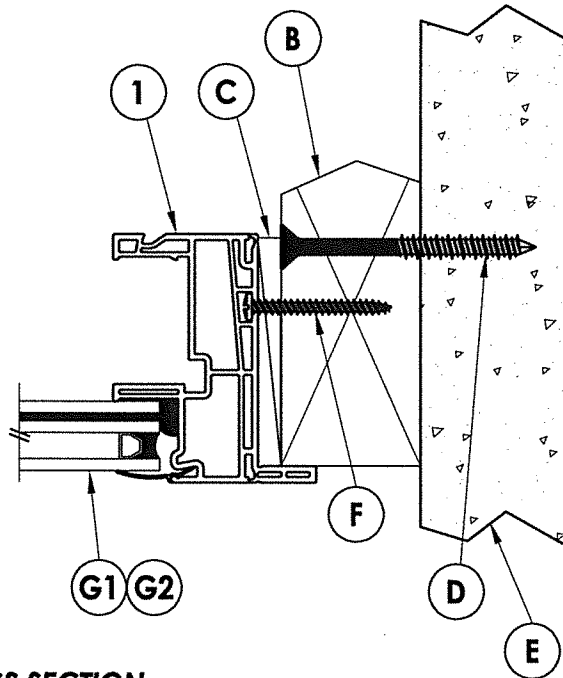
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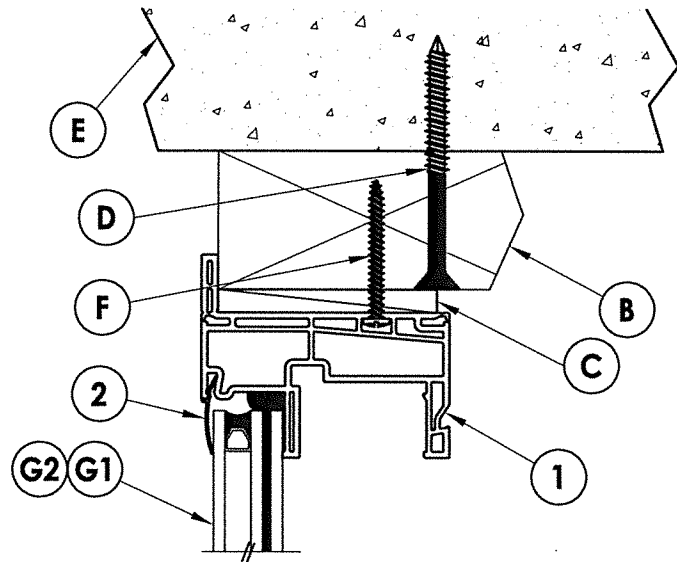
INTERIOR

EXTERIOR

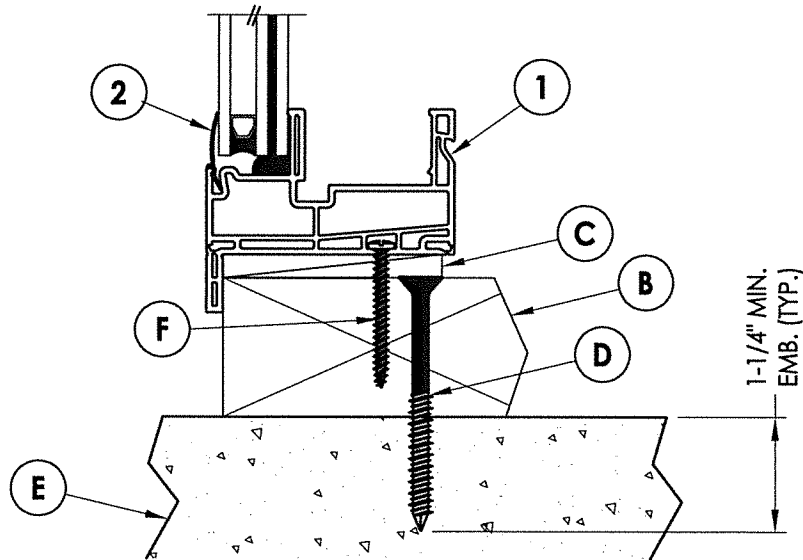
1 HORIZONTAL CROSS SECTION
2 2X Buck Masonry Construction



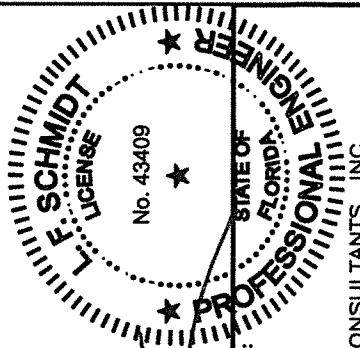
EXTERIOR



INTERIOR



2 VERTICAL CROSS SECTION
2 2X Buck Masonry Construction



August 18, 2020
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: Doers
PART OR ASSEMBLY:
VERTICAL & HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
4	8/04/20	UPDATE TO 7TH ED. (2020) FBC DAC
3	9/22/17	UPDATE TO 6TH ED. (2017) FBC JK
2	6/25/15	UPDATE TO 5TH ED. (2014) FBC LFS
1	2/14/13	ADDED HVHZ HEIGHT RESTRICTION LFS

DATE: 12/10/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15099.12

SHEET 2 OF 6

1-1/4" MIN.
EMB. (TYP.)

Diagram illustrating a cross-section of a window assembly. The diagram shows the internal structure, including the frame, sash, and glazing. Key components and fasteners are labeled:

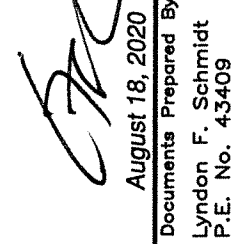
- C**: Points to the window frame.
- 1**: Points to the sash.
- G**: Points to a screw fastener.
- G2** and **G1**: Points to the glazing assembly.
- E**: Points to the exterior side of the frame.
- 2**: Points to the interior side of the frame.
- INTERIOR**: Label for the interior side of the window.
- EXTERIOR**: Label for the exterior side of the window.

A detailed cross-section diagram of a window assembly. The diagram shows a multi-pane window unit with a frame. A thick, textured material, likely insulation, is shown on the right side of the frame. A horizontal arrow points from the left towards the center of the assembly. Various components are labeled with letters and numbers in circles: '1' points to a small component on the left; 'C' points to a component on the left; 'A' points to a component in the center; 'D' points to a component on the right; 'E' points to the insulation material; 'G1' and 'G2' point to components at the bottom left. A horizontal arrow points from the left towards the center of the assembly.

Technical cross-section diagram of a window assembly. The diagram shows the exterior on the left and the interior on the right. Key components are labeled with callouts: A points to the interior pane, B points to the interior frame, C points to the interior seal, D points to the exterior pane, E points to the exterior frame, F points to the exterior seal, G1 points to the interior pane, and G2 points to the interior frame. The diagram illustrates the multi-layered construction of the window, including the glass panes, the frame, and the seals.

Technical cross-section diagram of a window assembly showing the installation of a sill plate into a concrete foundation. The diagram includes the following labels and dimensions:

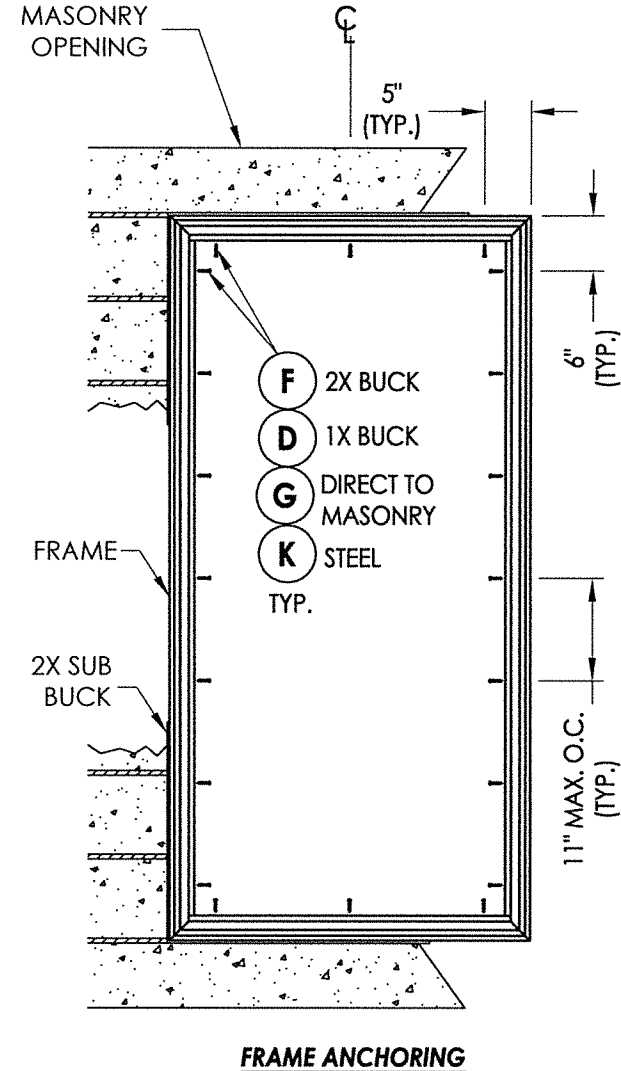
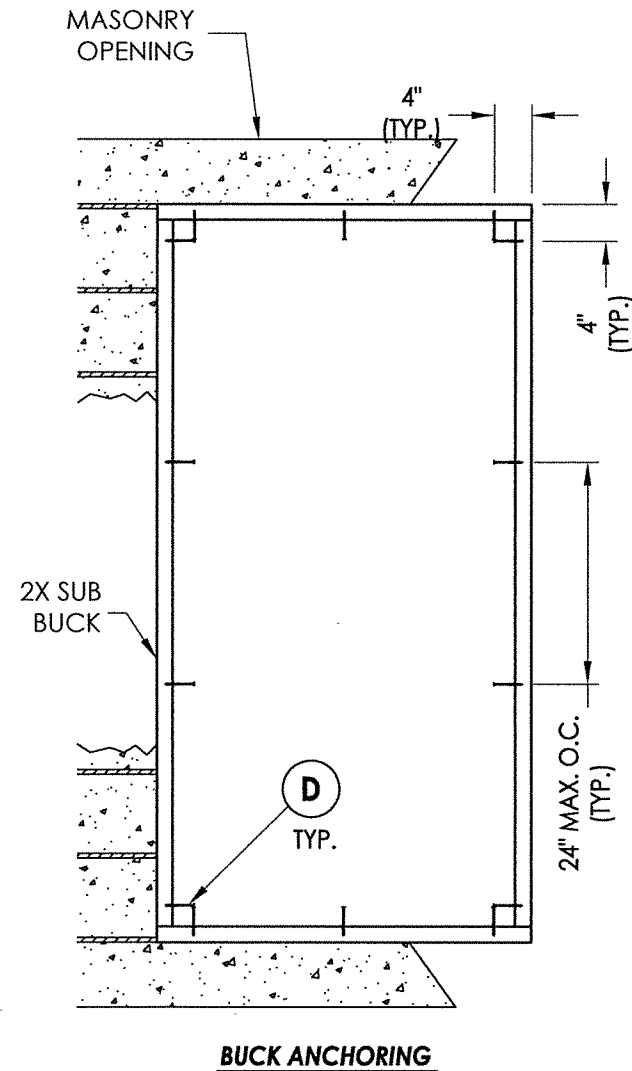
- 1**: Points to the window frame or sash.
- 2**: Points to the weatherstripping or seal.
- C**: Points to the sill plate.
- A**: Points to the concrete foundation.
- E**: Points to the exterior wall or insulation.
- D**: Points to the anchor bolt.
- Dimension**: A vertical dimension line on the right indicates a minimum depth of $1\text{--}1/4\text{\" MIN.}$ EMB. (TYP.) into the concrete.



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38" X 73" MAX. OVERALL FLANGE DIMENSION

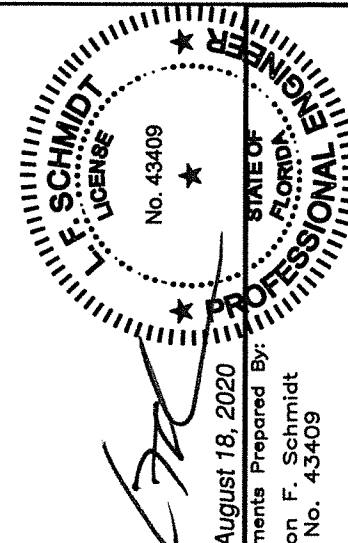
CONCRETE ANCHOR NOTES:

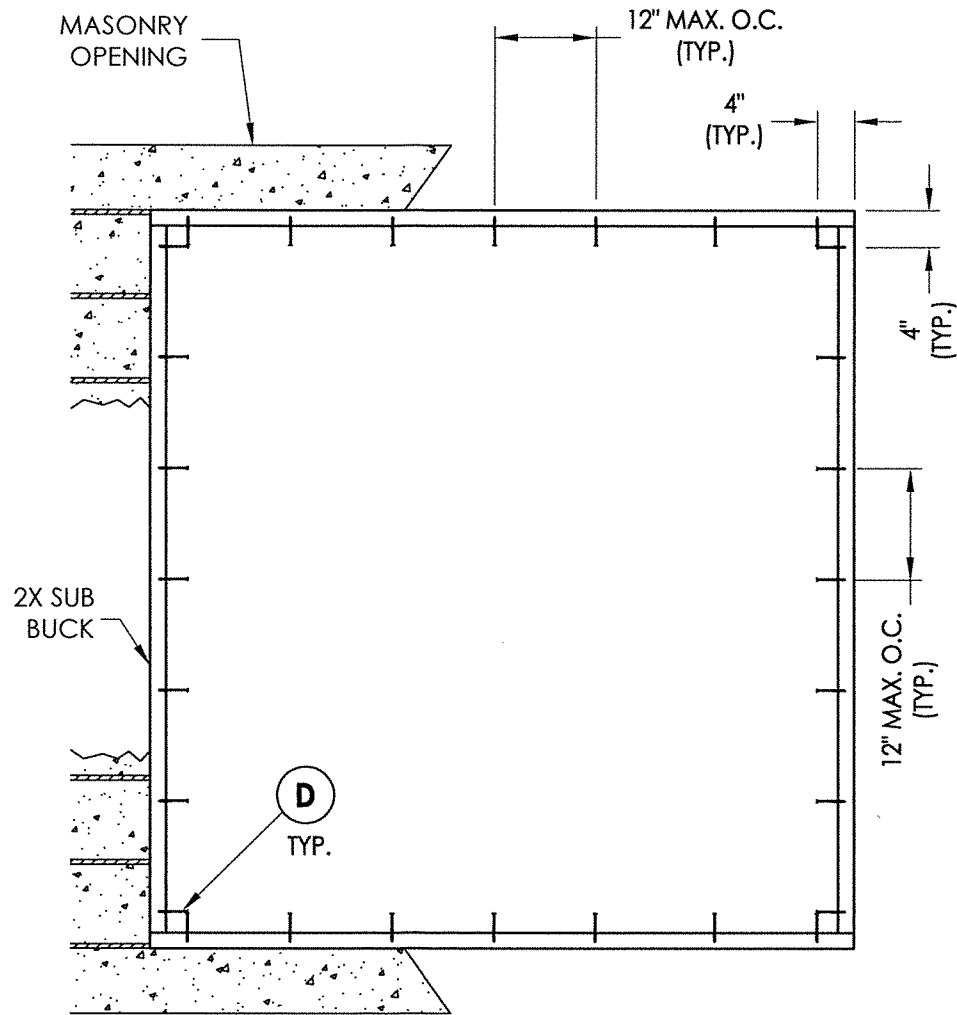
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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"

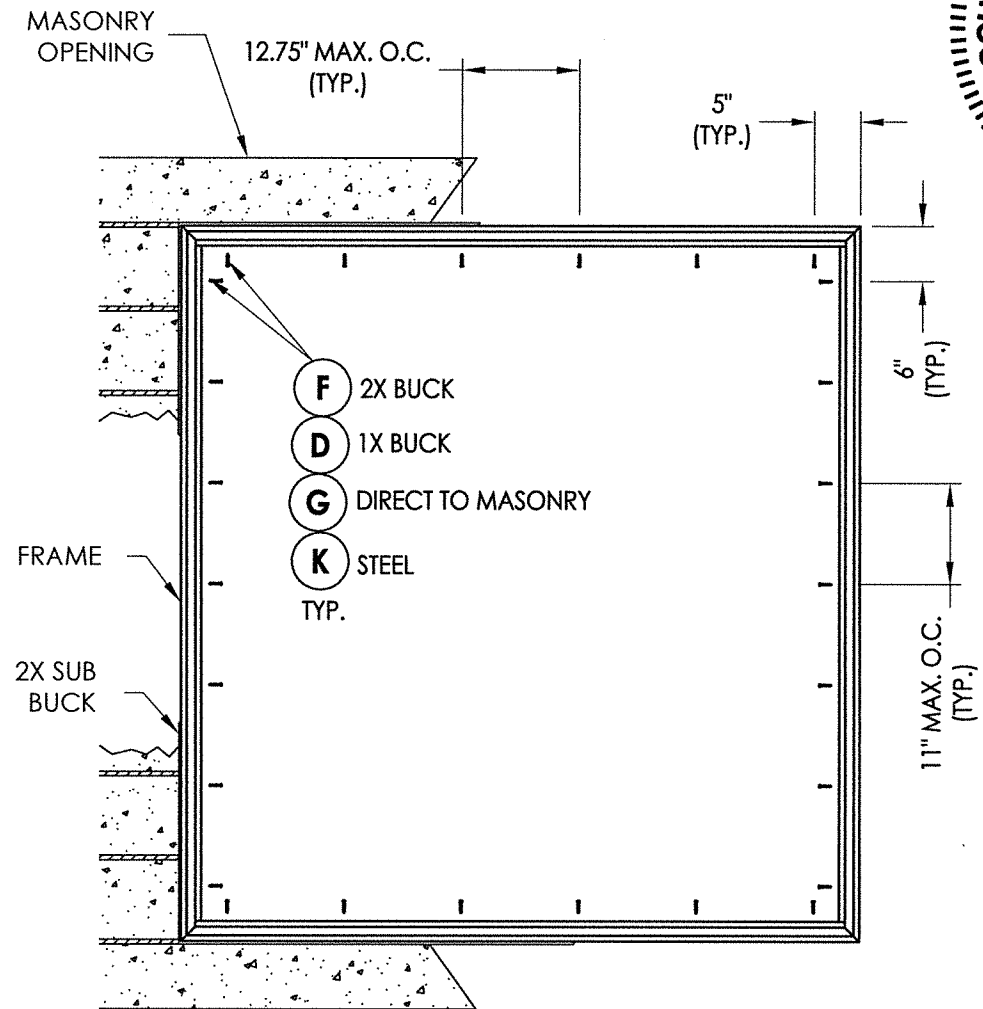
WOOD SCREW INSTALLATION NOTES:

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

		August 18, 2020	
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: Doers		PART OR ASSEMBLY: BUCK & FRAME ANCHORING	
DATE: 12/10/12		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-15099.12		SHEET 4 OF 6	
NO. DATE		REVISIONS	
4	8/04/20	UPDATE TO 7TH ED. (2020)	FBC DAC
3	9/22/17	UPDATE TO 6TH ED. (2017)	FBC JK
2	6/25/15	UPDATE TO 5TH ED. (2014)	FBC LFS
1	2/14/13	ADDED HVHZ HEIGHT RESTRICTION	LFS



BUCK ANCHORING



FRAME ANCHORING

73" X 77" MAX. OVERALL FLANGE DIMENSION

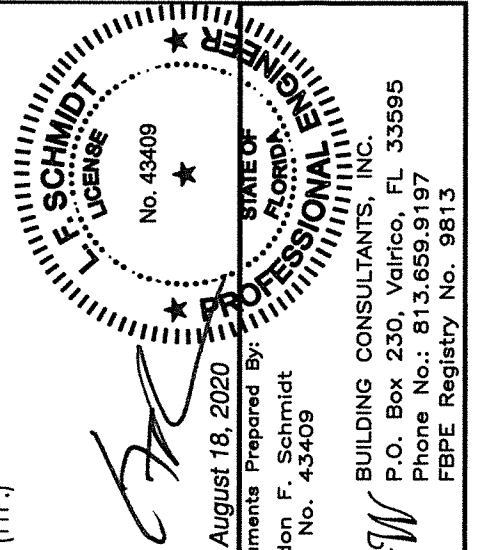
CONCRETE ANCHOR NOTES:

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



Exhibits Prepared By:

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Lyndon F. Schmidt
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Building Consultants, Inc.

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

PRODUCT: Doers

ASSEMBLY:
BUCK & FRAME
ANCHORING

[illegible]

DATE: 12/10/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

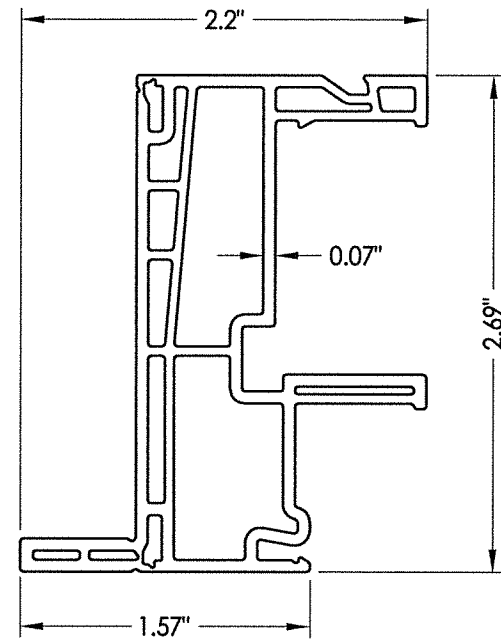
FL-15099.12

SHEET 5 OF 6

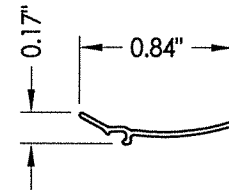
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.55)	WOOD
B	2X BUCK (SG >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8 X 1-1/2" PPH SMS (1-1/8" MIN. EMBEDMENT)	STEEL
G	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 ksi min., Fu=45 ksi min.)	STEEL
K	#10 PPH SELF-DRILLING SMS	STEEL
1	EXTRUDED VINYL FRAME *	RIGID PVC
2	EXTRUDED VINYL GLAZING BEAD *	RIGID PVC
3	GLASS SETTING BLOCK	-
4	GLAZING SPACER (Duraseal)	-
5	GLAZING SEALANT (Sikaflex-552)	SILICONE

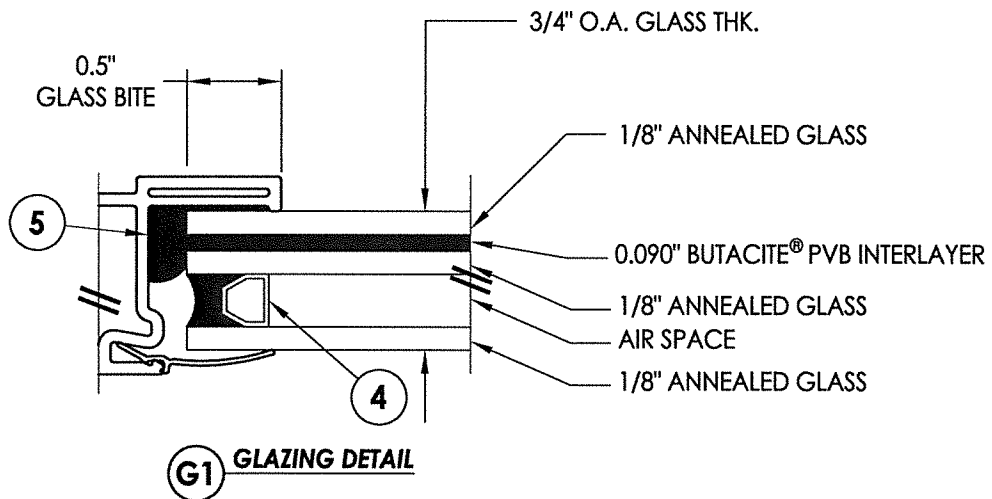
* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



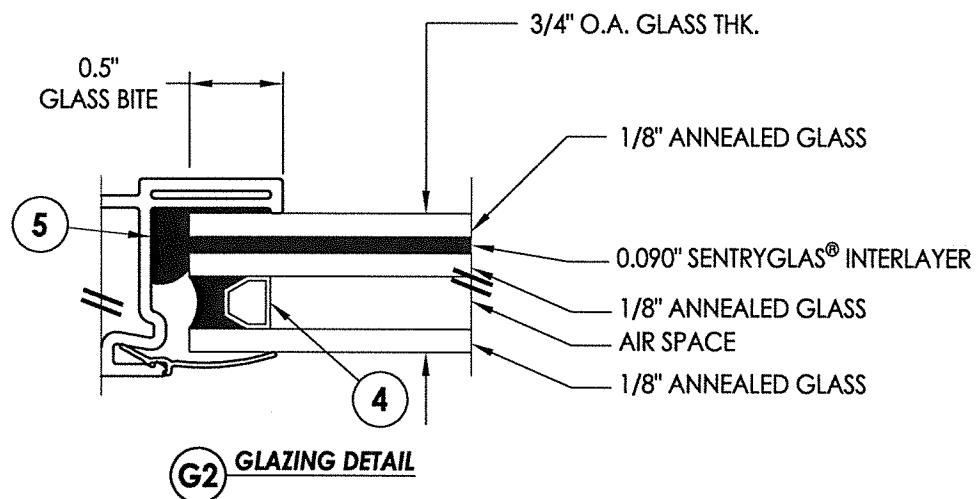
1 FRAME



2 GLAZING BEAD



G1 GLAZING DETAIL



G2 GLAZING DETAIL

NOTE: GLAZING > 36" WIDE REQUIRES TWO (2) SETTING BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1

