

MODEL 6105/6106/6175

EXTRUDED VINYL

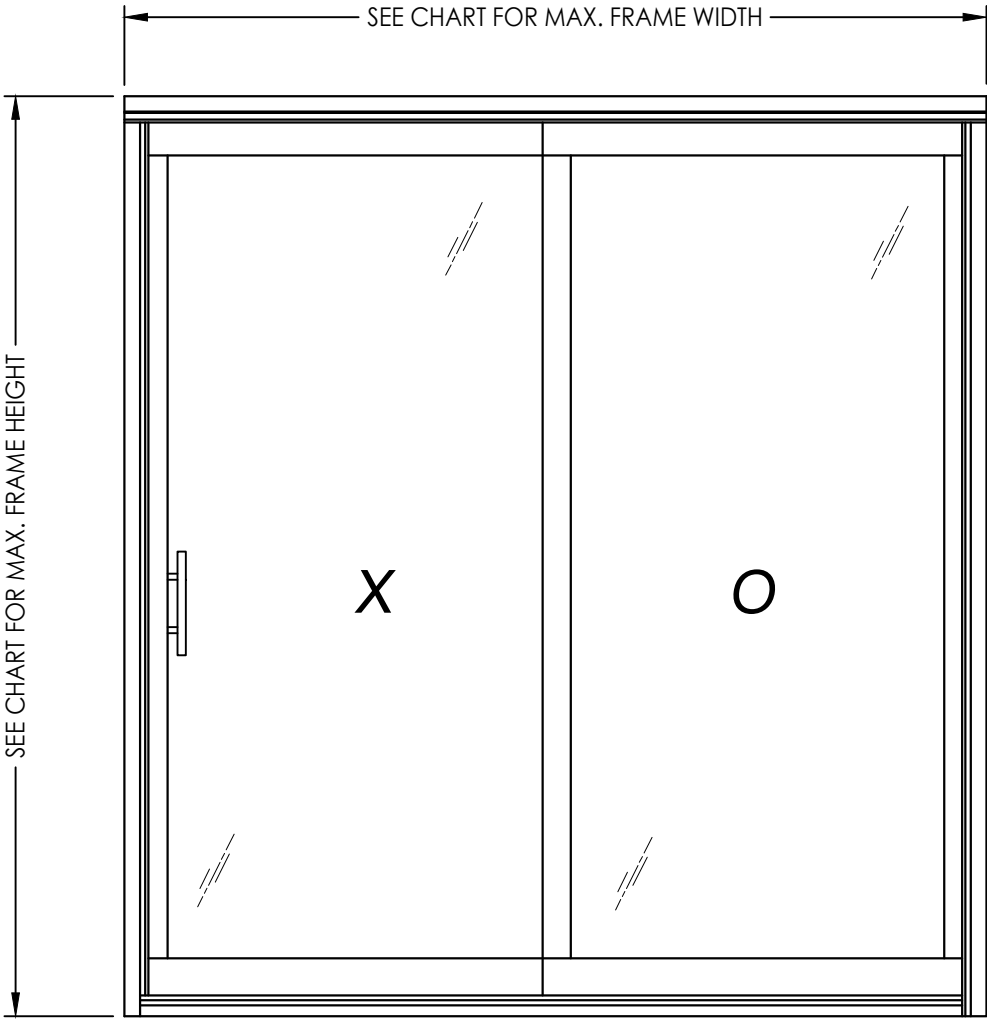
SLIDING PATIO DOORS

"NON-IMPACT"

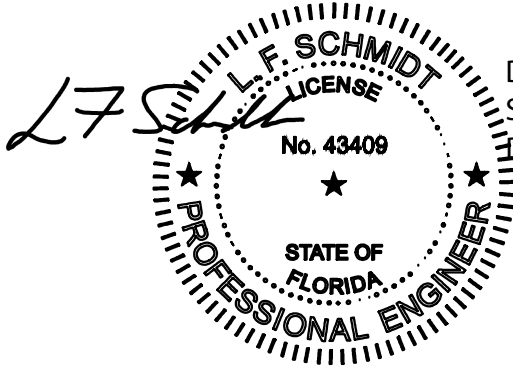
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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 Section 1609.1.2 of the FBC.
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	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Horizontal cross section
3	Vertical cross sections
4	Buck and frame anchoring
5	Bill of materials, glazing details & components



TYPE	OVERALL FRAME DIMENSION	MAX. PANEL DIMENSION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
w/out SILL RISER	71.0" x 80.0"	35.37" x 76.37"	30.67" x 69.87"	+30.0	-40.0
w/ SILL RISER	71.0" x 80.0"	35.37" x 76.37"	30.67" x 69.87"	+35.0	-40.0



Digitally signed by Lyndon F Schmidt

Date: 2023.07.31 15:17:05 -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

PRODUCT:

EXTRUDED VINYL
SLIDING PATIO DOORS

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

5	7/31/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
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1	9/21/11	UPDATED FOR 2010	FBC	JK
NO.	DATE			BY

REVISIONS

DATE: 3/11/09

SCALE: N.T.S.

DWG. BY: DWS

CHK. BY: LFS

DRAWING NO.: FL-12323.1

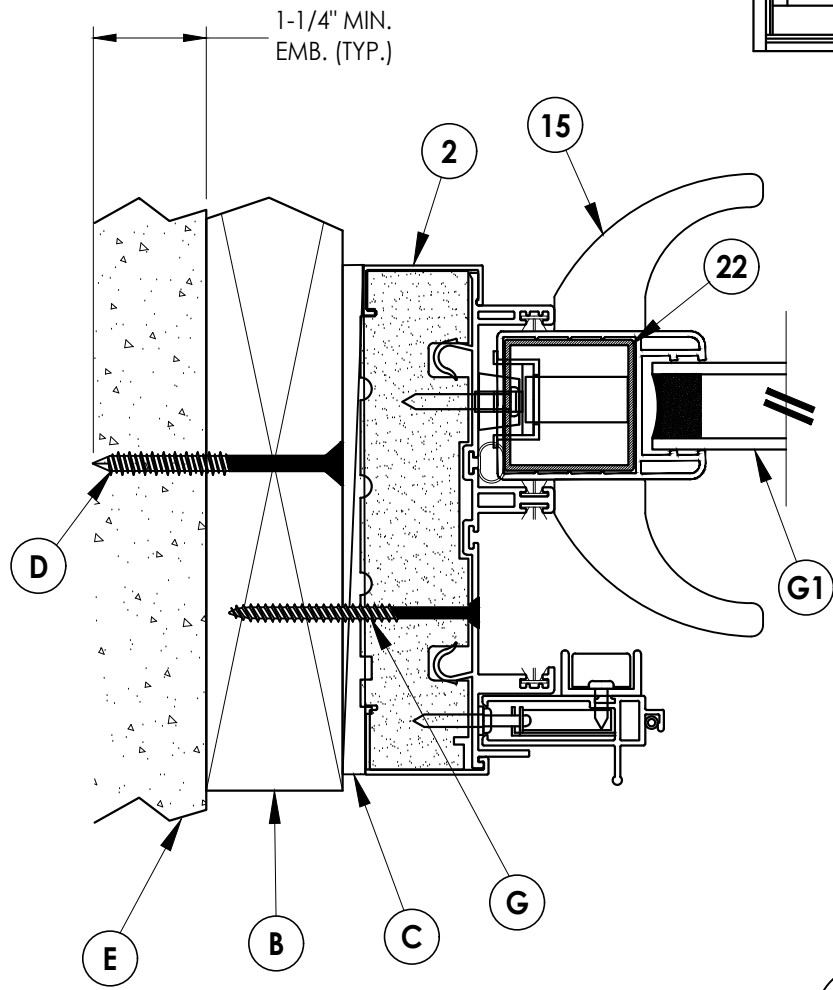
SHEET 1 OF 5

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

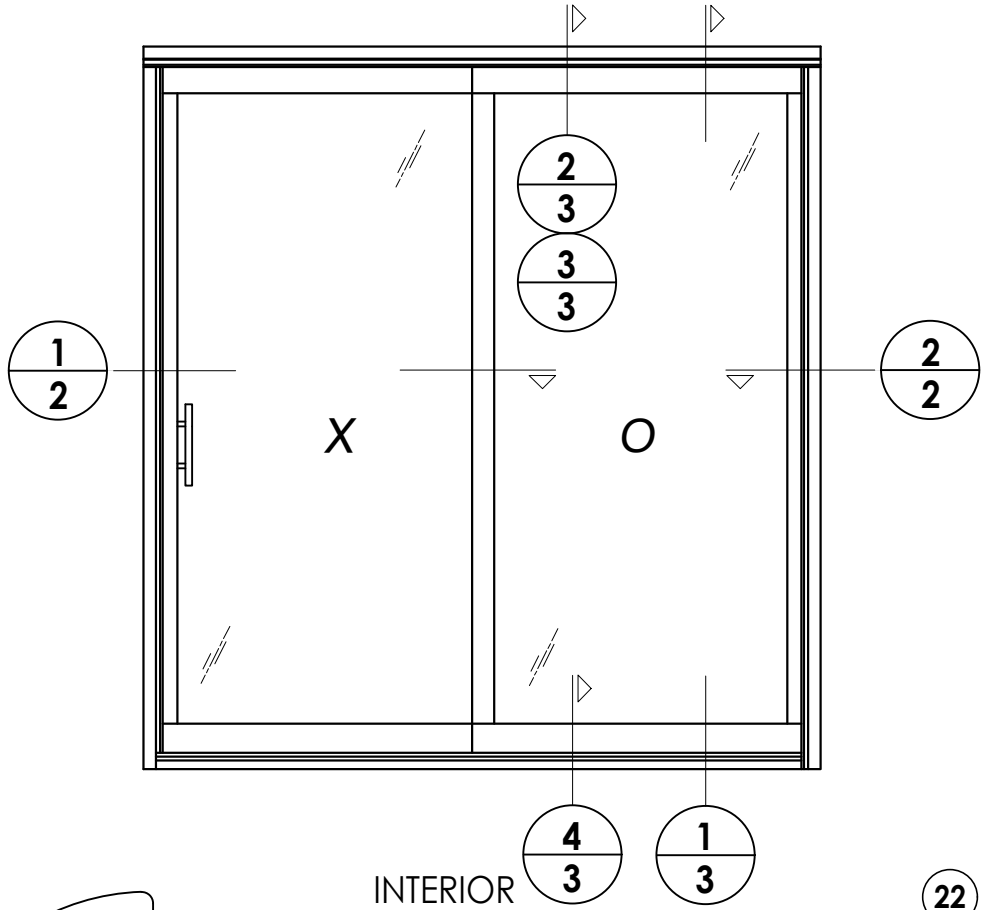
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BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

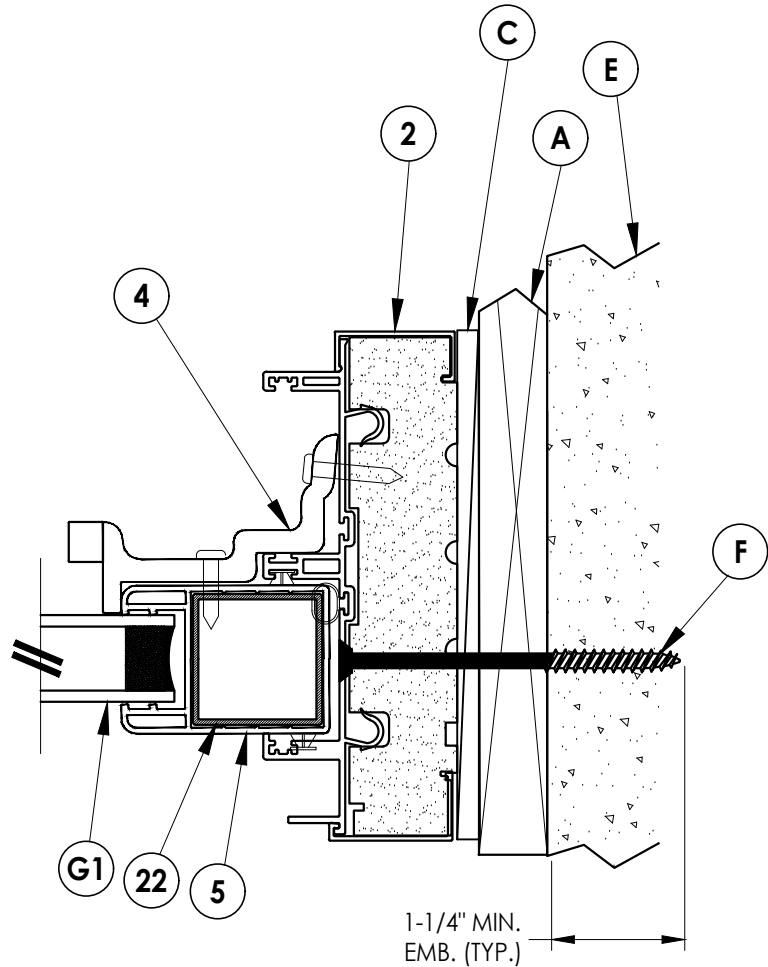
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1
2 **HORIZONTAL CROSS SECTION**
2X Buck Construction



2
2 **HORIZONTAL CROSS SECTION**
Shown w/1X sub-buck



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SHEET 2 OF 5

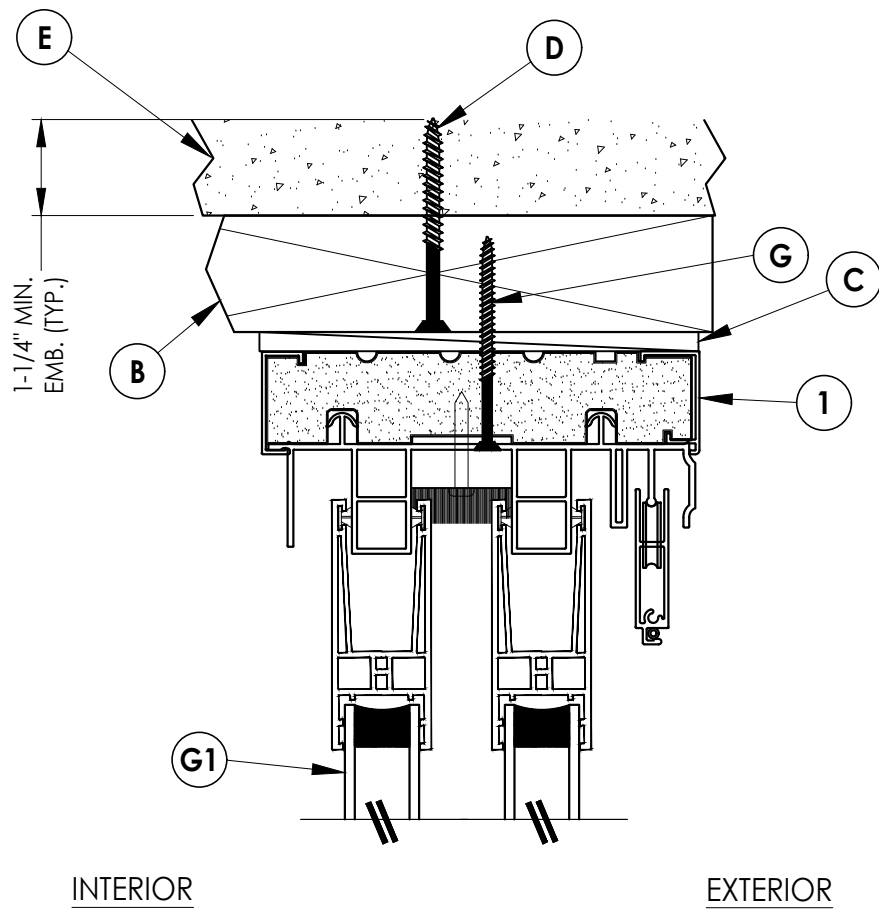
PRODUCT: EXTRUDED VINYL SLIDING PATIO DOORS

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

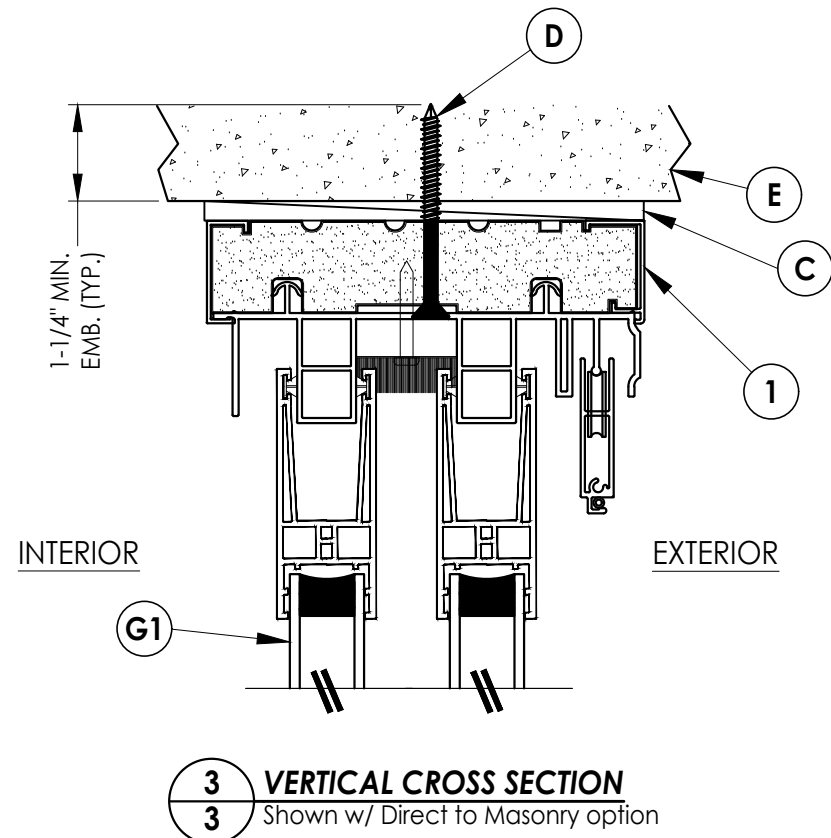
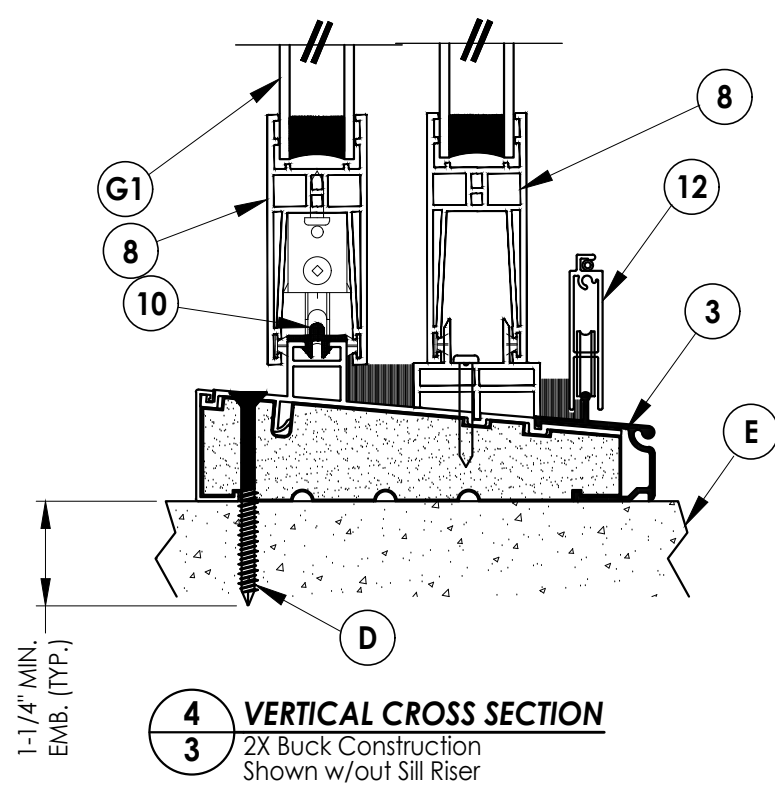
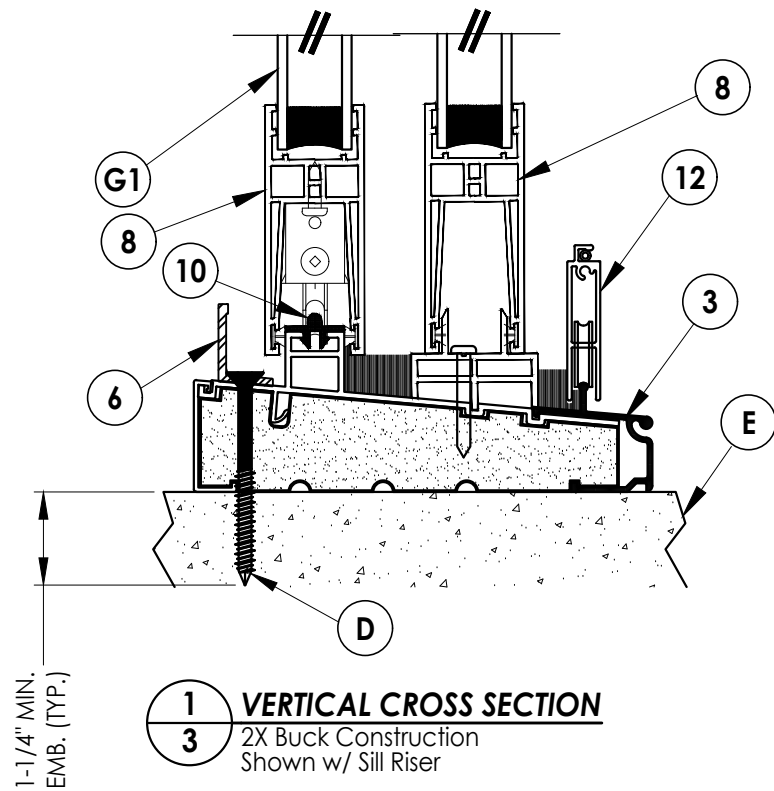
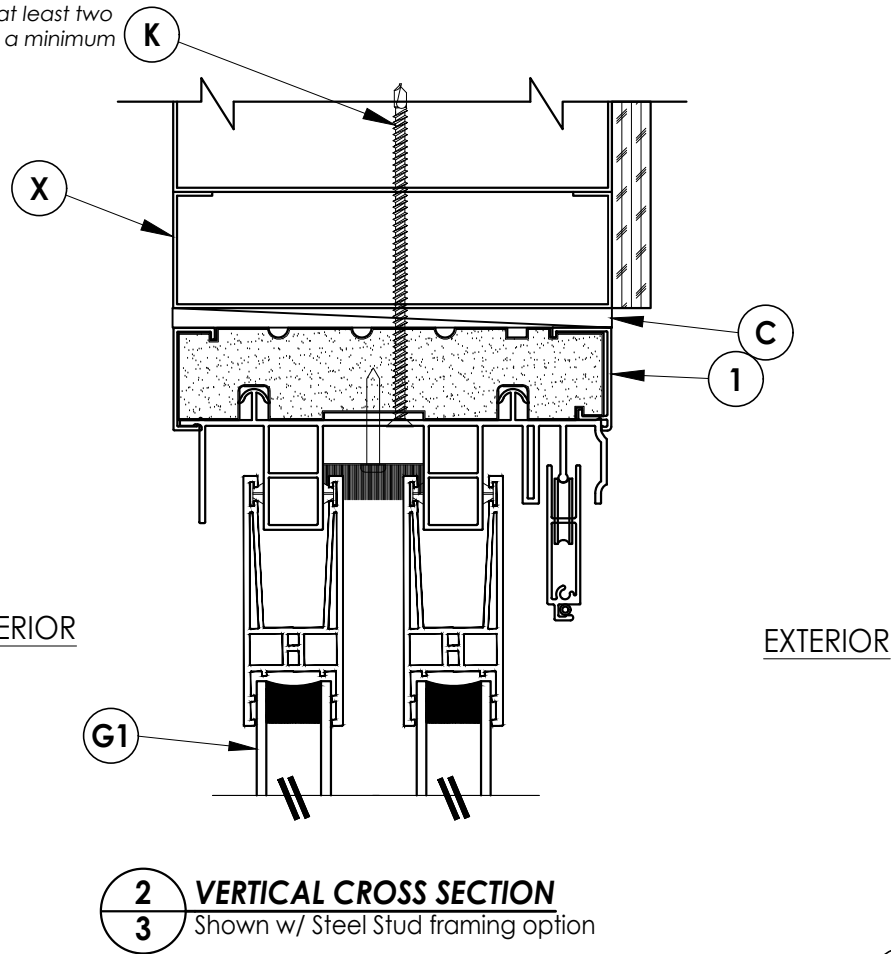
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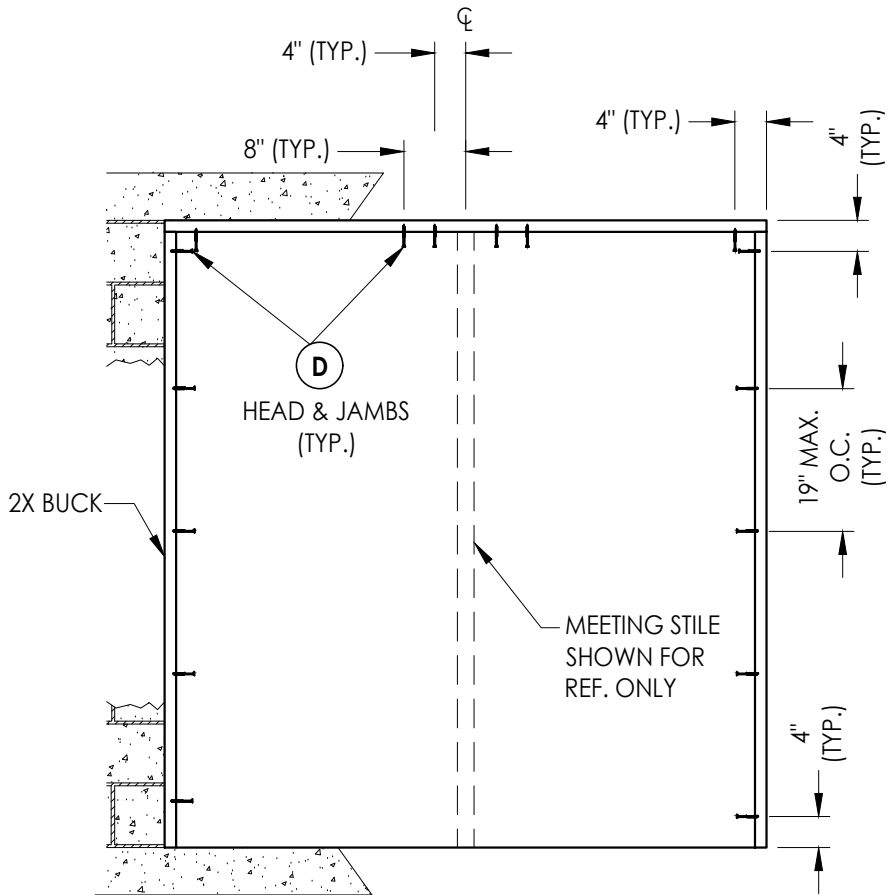


NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal. Maintain a minimum 5/8\"/>

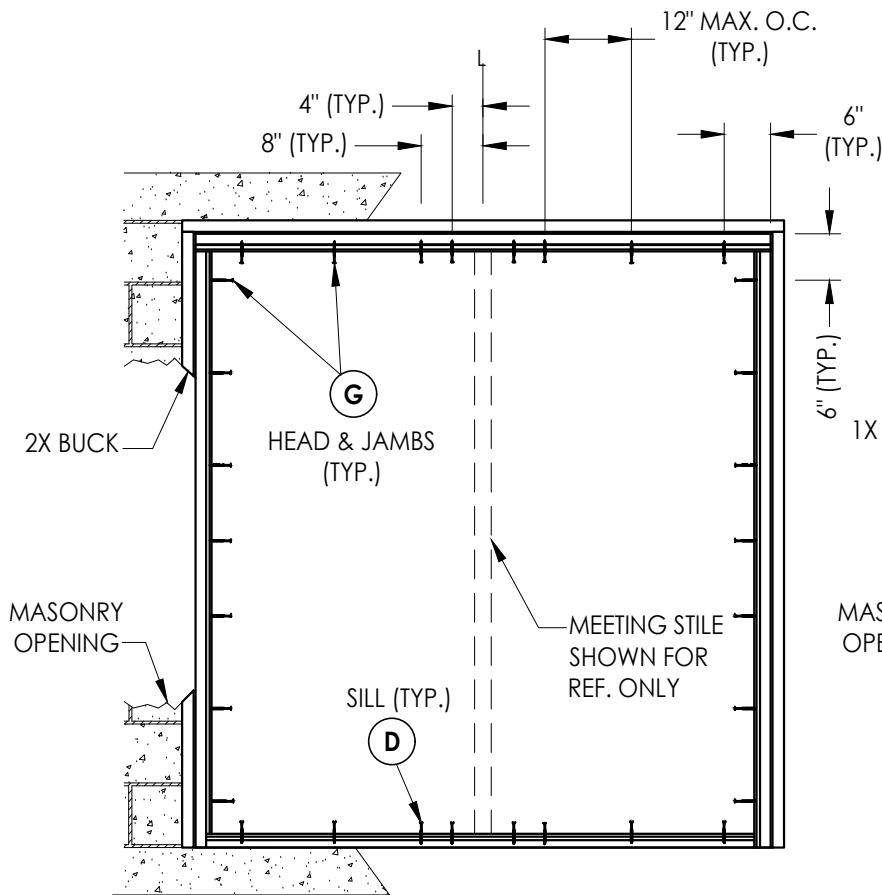


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: EXTRUDED VINYL SLIDING PATIO DOORS		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
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SHEET 3 OF 5							

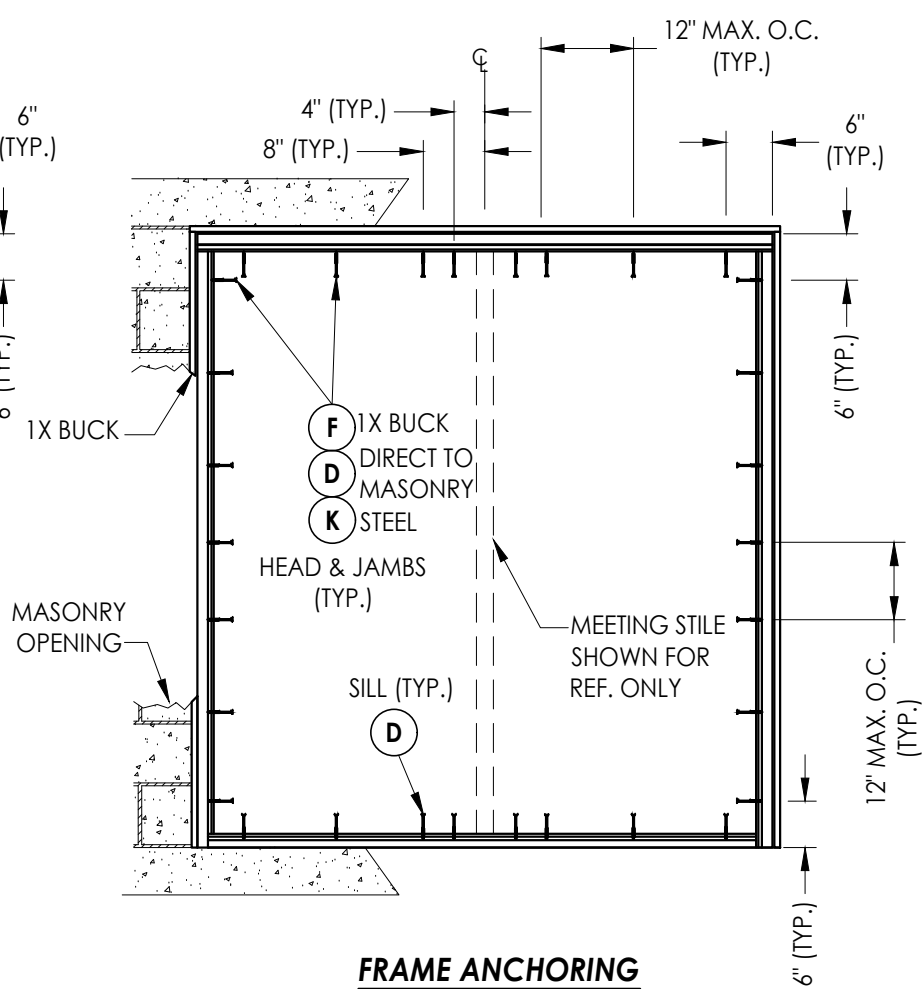
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**BUCK ANCHORING
MASONRY**



**FRAME ANCHORING
(2X Buck)**



**FRAME ANCHORING
(1X Buck, Direct to Masonry, Steel Stud)**

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 ULTRA CON+®	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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PRODUCT:
EXTRUDED VINYL
SLIDING PATIO DOORS

PART OR ASSEMBLY:

BUCK & FRAME
ANCHORING

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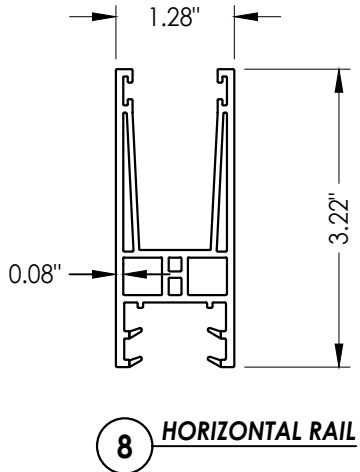
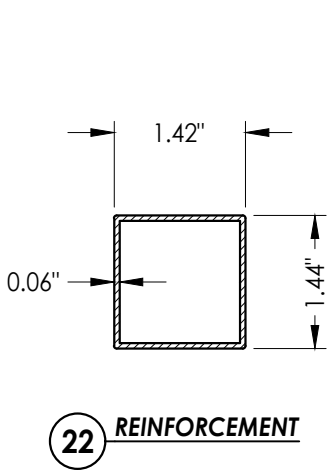
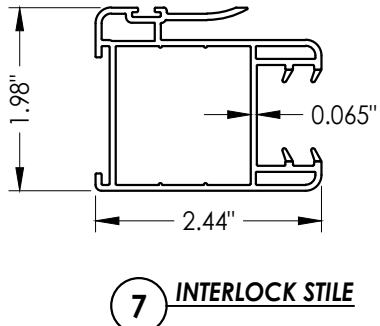
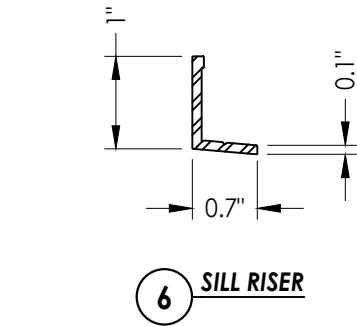
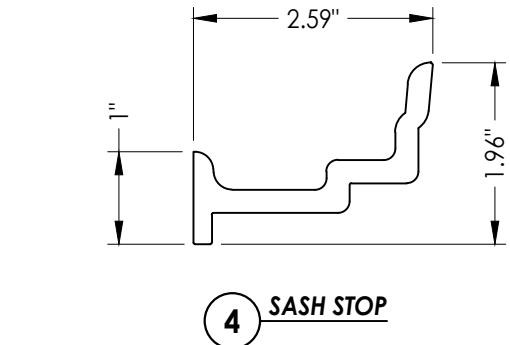
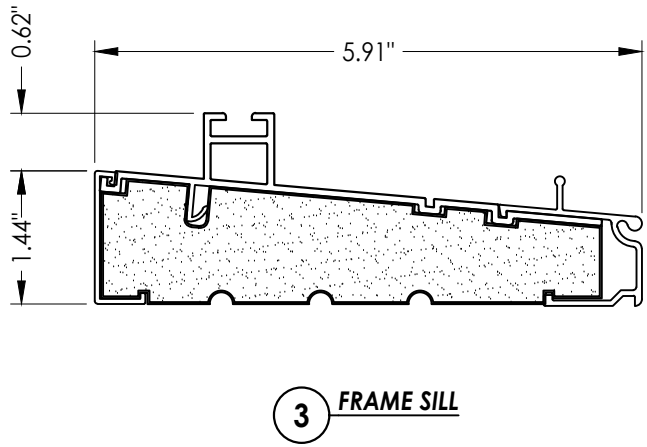
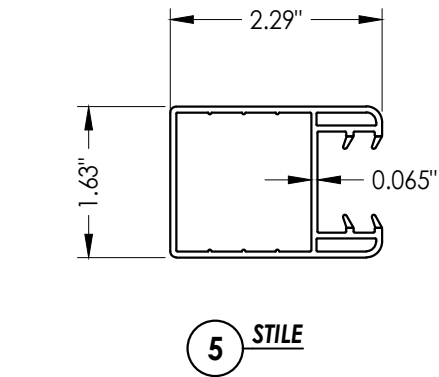
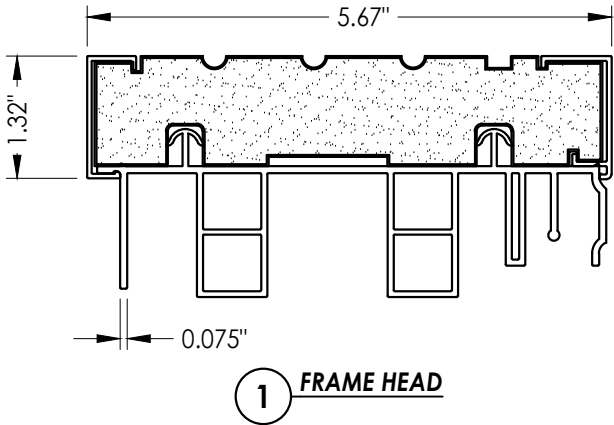
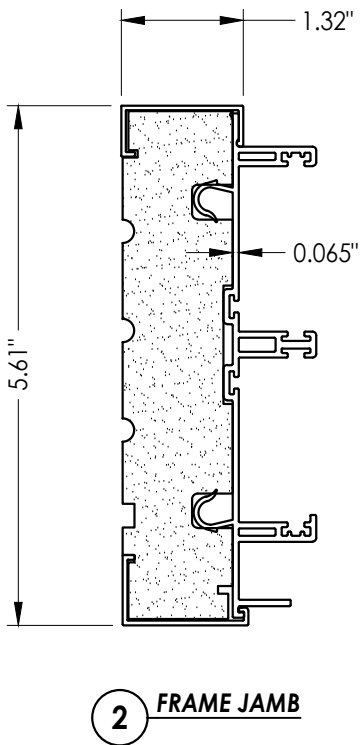
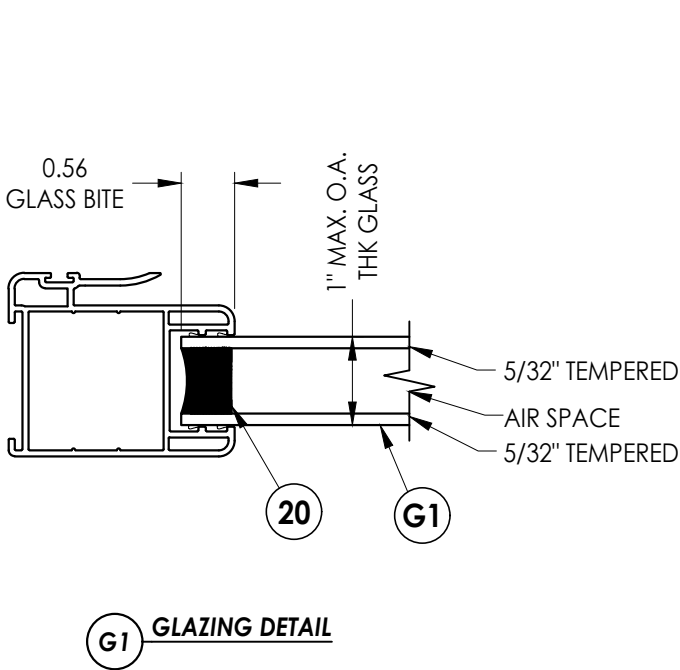
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SHEET 4 OF 5

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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
F	1/4" x 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
G	#8 X 2-1/2" PFH WOOD SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
K	#10 PPH SELF-DRILLING SMS	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
1	EXTRUDED VINYL FRAME HEAD (BY ROYAL) *	PVC / COMP.
2	EXTRUDED VINYL FRAME JAMB (BY ROYAL) *	PVC / COMP.
3	FRAME SILL (BY ROYAL) *	PVC / COMP.
4	SASH STOP (BY ROYAL) *	PVC
5	STILE (BY ROYAL) *	PVC
6	SILL RISER	ALUM
7	INTERLOCK STILE (BY ROYAL) *	PVC
8	HORIZONTAL RAIL (BY ROYAL) *	PVC
10	SLIDING PATIO DOOR ROLLER ASSEMBLY	-
12	ROLLING PATIO DOOR SCREEN	-
15	PULL HANDLE (AMESBURY)	-
20	SUPER SPACER	FOAM
22	STEEL STILE REINFORCEMENT (BY ROYAL)	STEEL

* 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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SHEET 5 OF 5									

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