



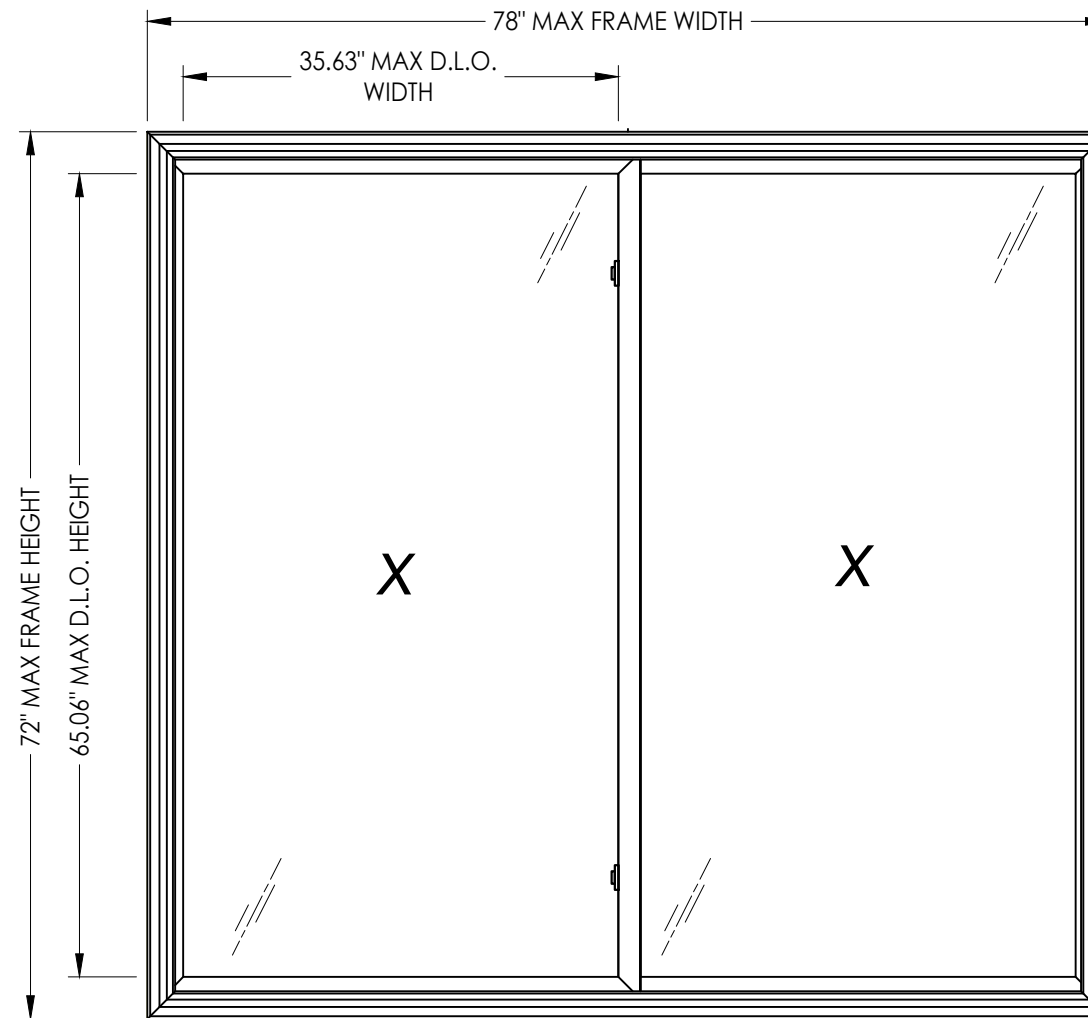
250 Staunton Turnpike, Parkersburg, WV 26104

# 5400/5400S SERIES Vinyl Horizontal Sliding Window "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 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.

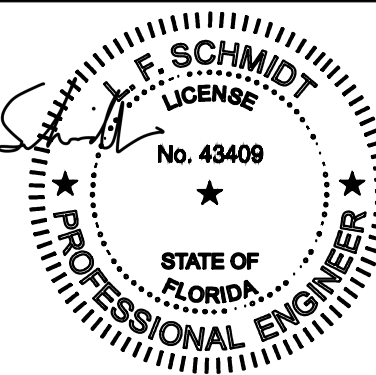
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck and frame anchoring
5	Components
6	Bill of materials & glazing detail



XX SHOWN  
OX, XO ALSO APPROVED

MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
63.0" X 44.0"	27.63" X 37.06"	G2	+30.0	-30.0
72.0" X 48.0"	32.13" X 41.06"	G1	+45.0	-45.0
74.0" X 63.0"	33.13" X 56.06"	G1	+25.0	-25.0
78.0" X 72.0"	35.63" X 65.06"	G1	+20.0	-20.0

\*\* Meeting stile reinforcement is not required



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

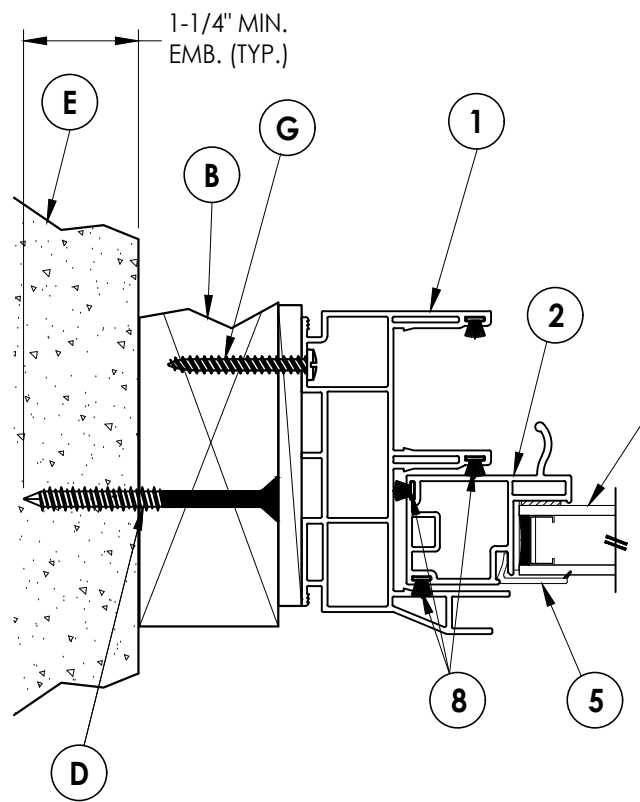
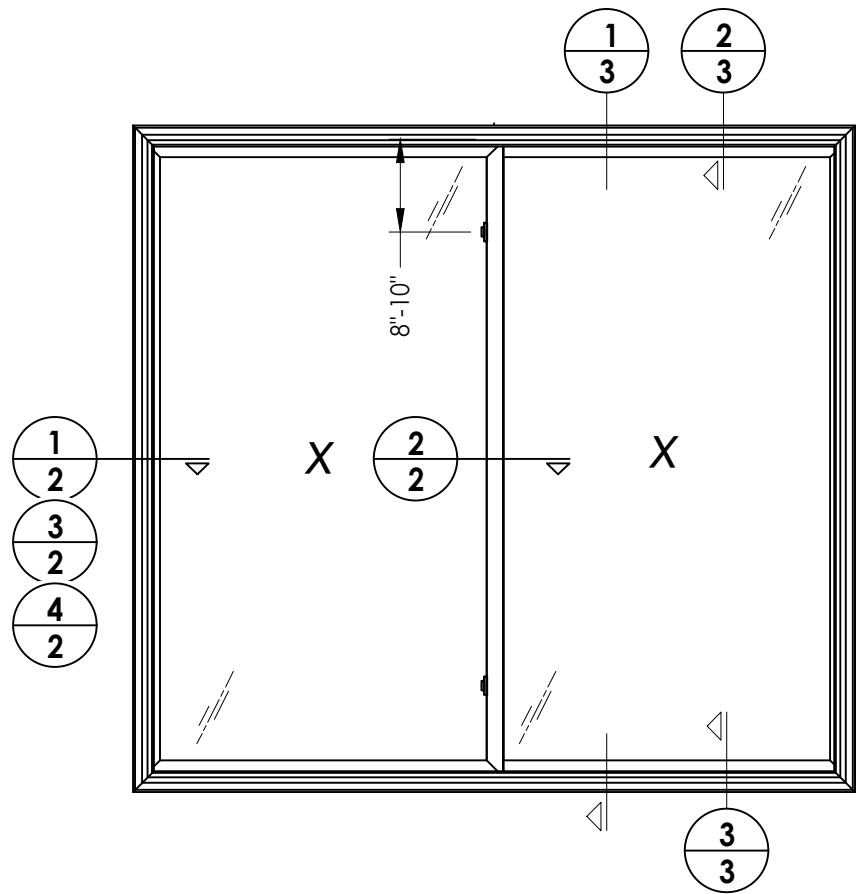
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Vairico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT: 5400/5400S SERIES

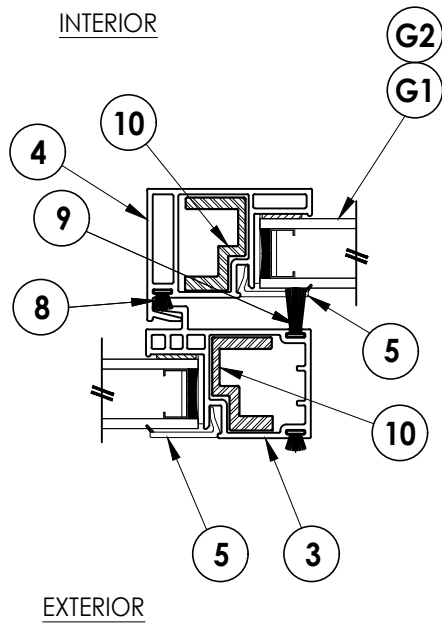
PART OR ASSEMBLY:  
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS
4	7/06/23	LFS	UPDATE TO 8TH ED. (2023) FBC
3	7/06/20	LFS	UPDATE TO 7TH ED. (2020) FBC
2	6/01/17	LFS	UPDATE TO 6TH ED. (2017) FBC
1	1/28/15	JK	UPDATE TO 5TH ED. (2014) FBC

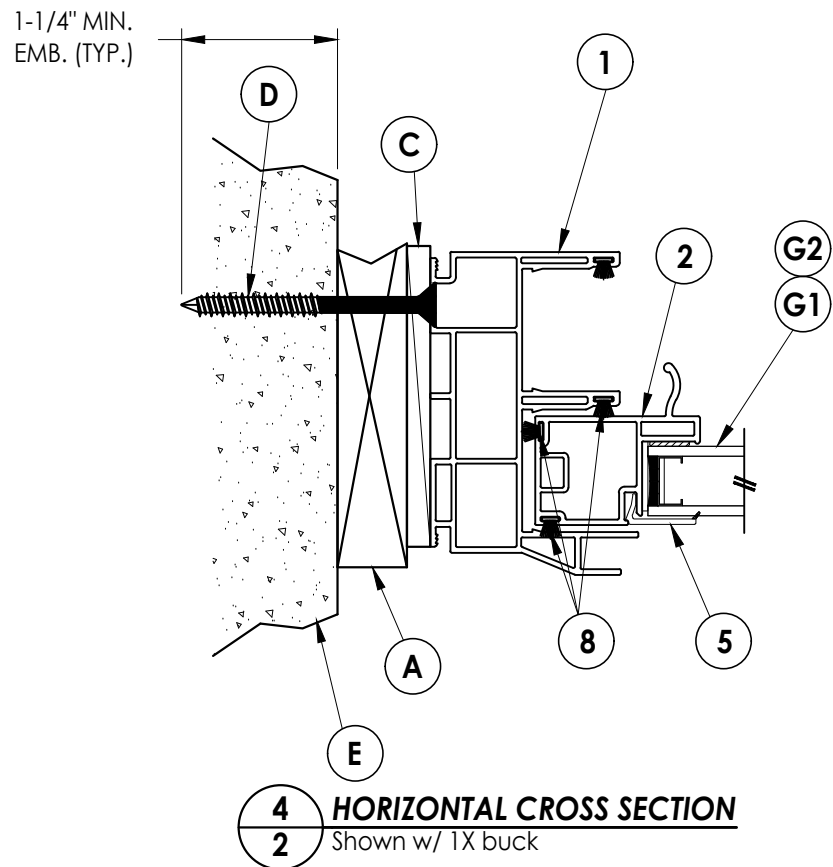
DATE: 10/4/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-16092.18  
SHEET 1 OF 6



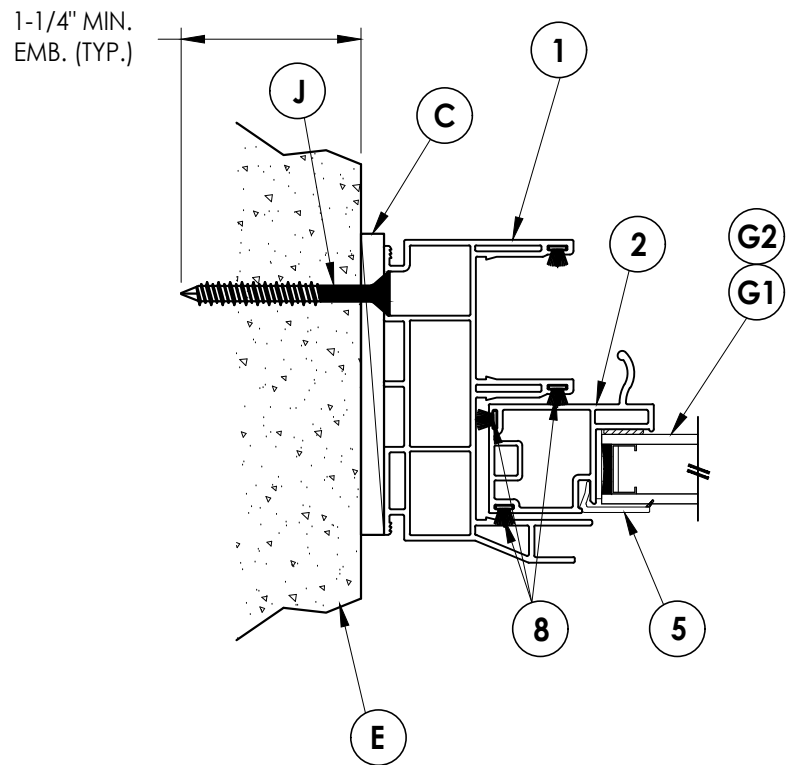
**1** HORIZONTAL CROSS SECTION  
**2** Shown w/ 2X buck



**2** HORIZONTAL CROSS SECTION  
**2**



**4** HORIZONTAL CROSS SECTION  
**2** Shown w/ 1X buck



**3** HORIZONTAL CROSS SECTION  
**2** Shown direct to masonry

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PRODUCT: 5400/5400S SERIES

PART OR ASSEMBLY:  
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/06/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	6/01/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	1/28/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 10/4/13

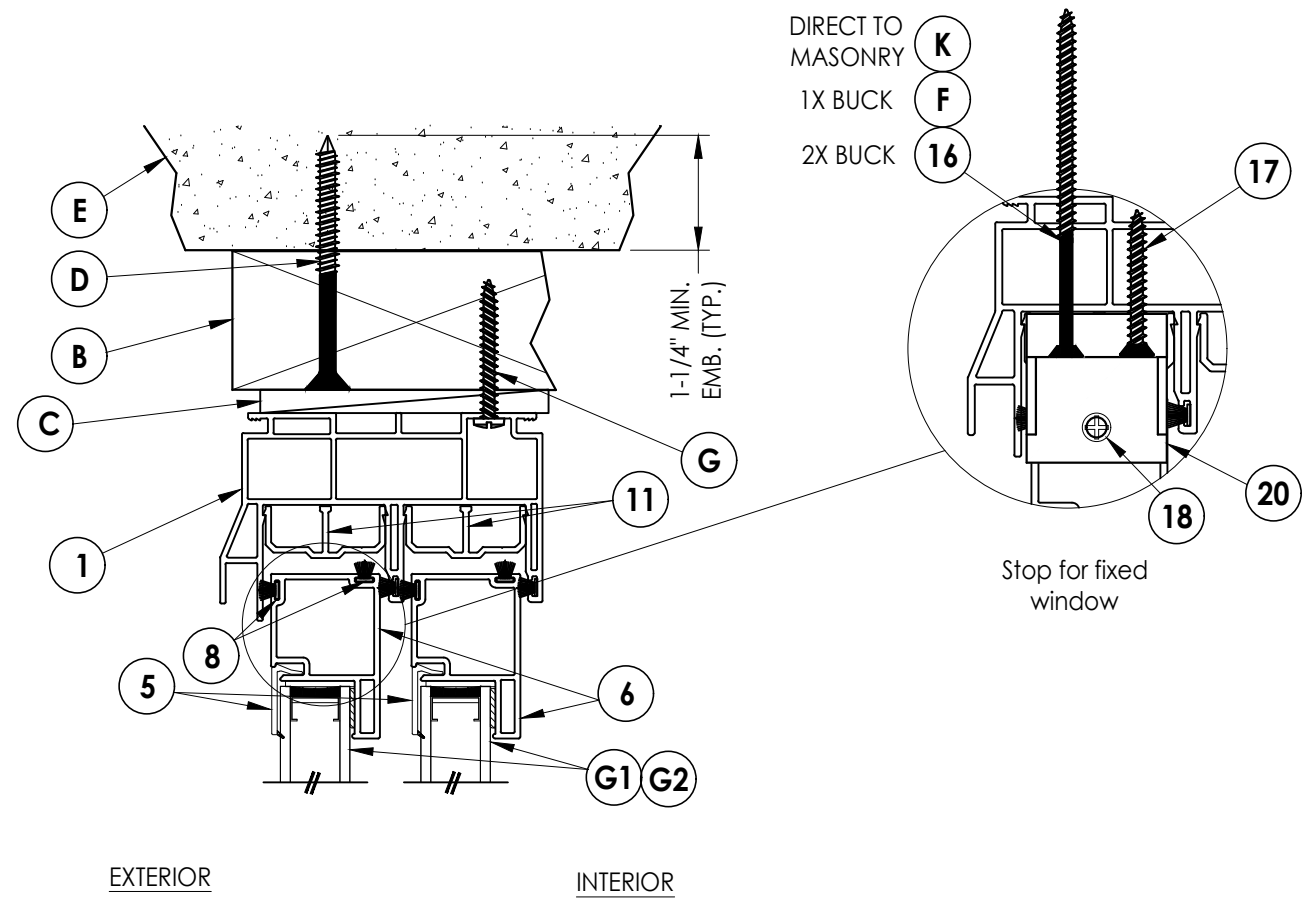
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DWG. BY: JK

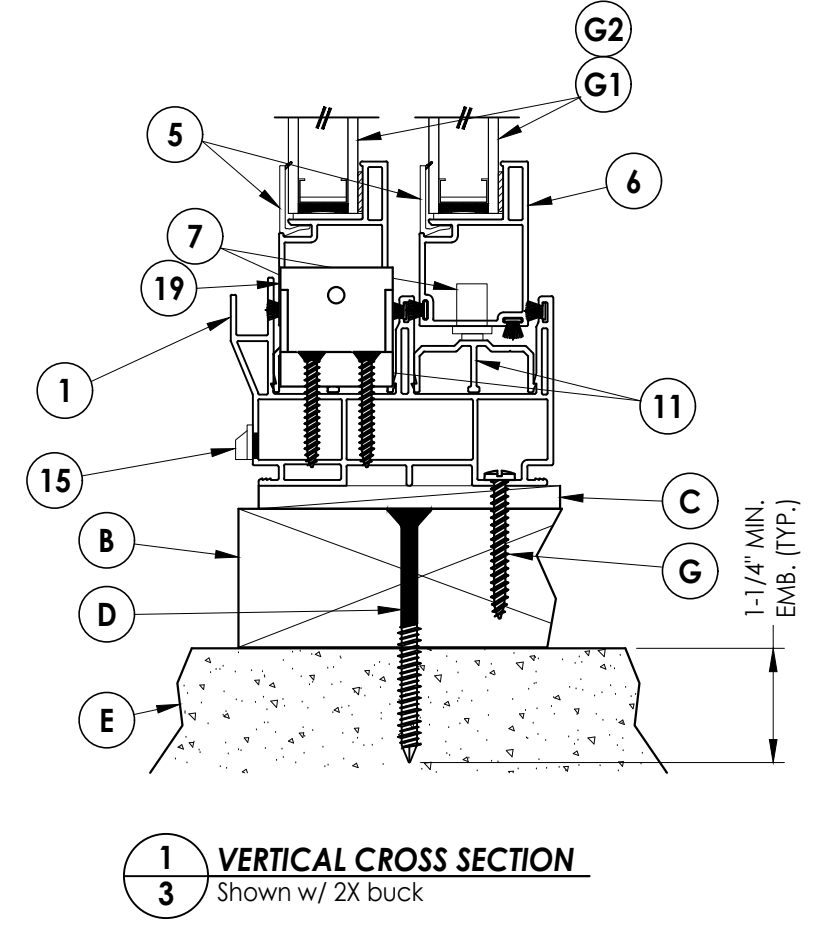
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DRAWING NO.:  
FL-16092.18

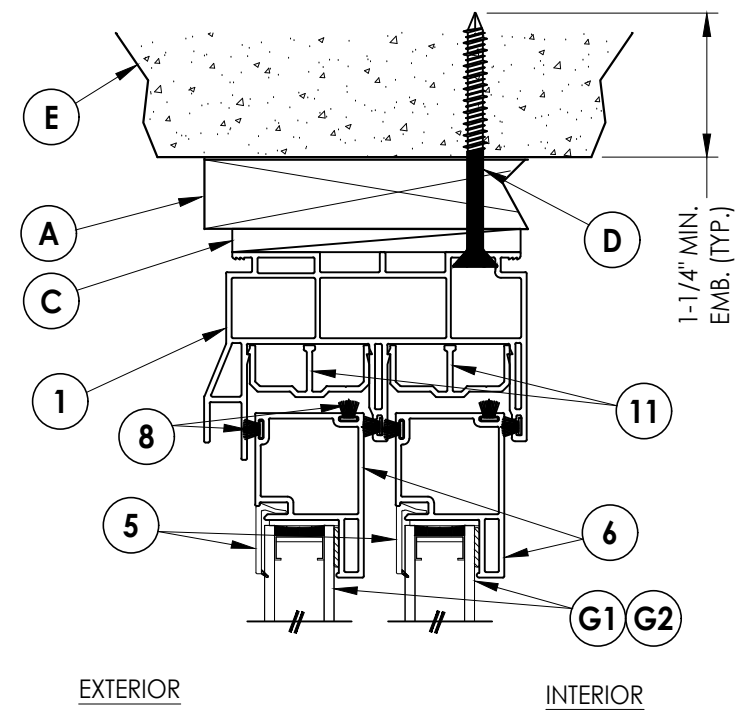
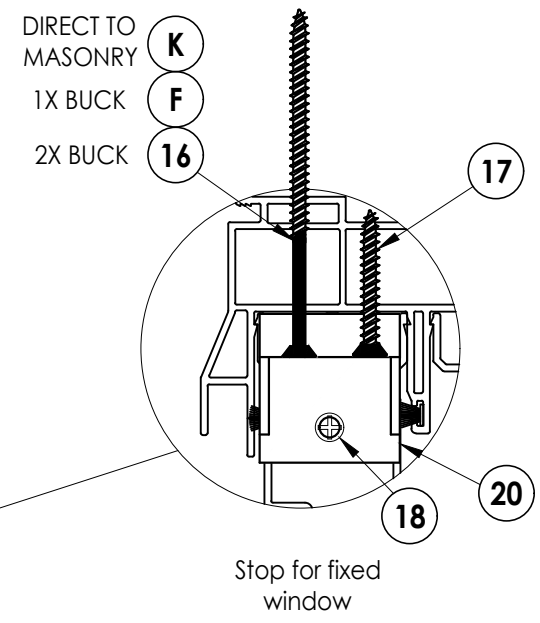
SHEET 2 OF 6



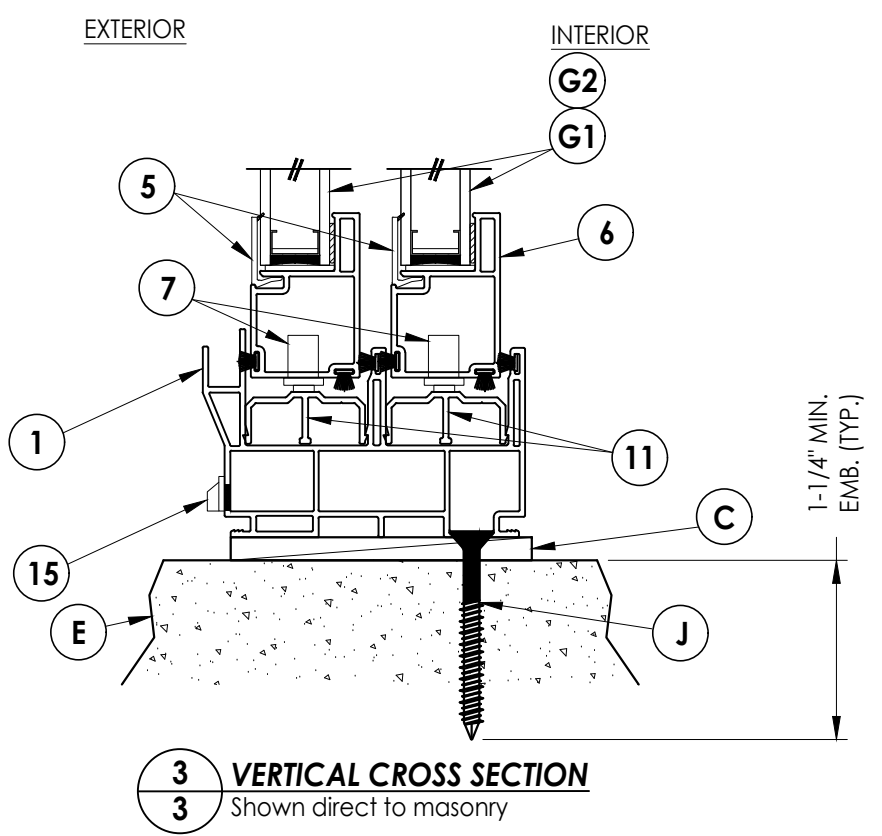
1 **VERTICAL CROSS SECTION**  
3 Shown w/ 2X buck



2 **VERTICAL CROSS SECTION**  
3 Shown w/ 1X buck



3 **VERTICAL CROSS SECTION**  
3 Shown direct to masonry



3 **VERTICAL CROSS SECTION**  
3 Shown direct to masonry

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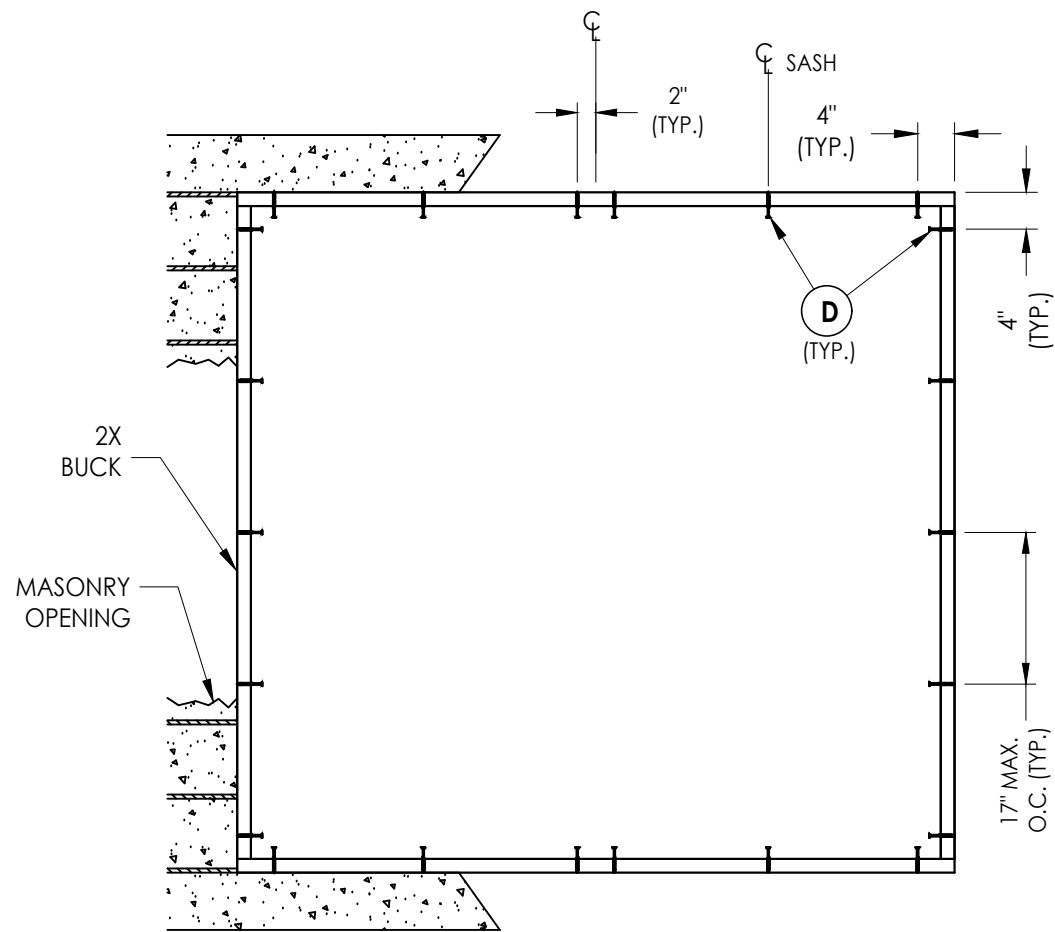
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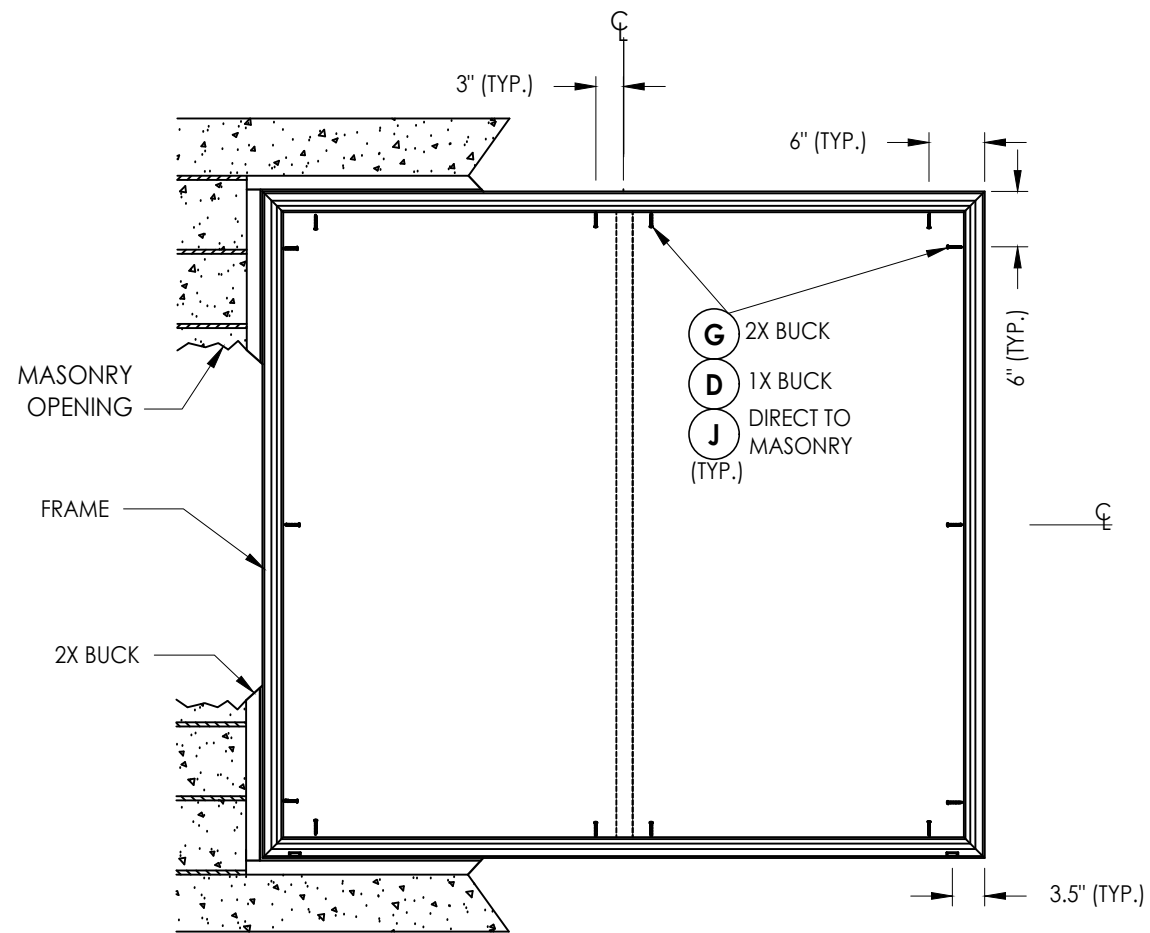
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

		REVISIONS			
NO.	DATE	BY	JK	LFS	FBC
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/06/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	6/01/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	1/28/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

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CHK. BY: LFS  
DRAWING NO.: FL-16092.18  
SHEET 3 OF 6



**BUCK ANCHORING**



**FRAME ANCHORING**

**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"

**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.

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PRODUCT: 5400/5400S SERIES

PART OR ASSEMBLY:  
BUCK AND FRAME ANCHORING

NO.	DATE	REVISIONS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/06/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	6/01/17	UPDATE TO 6TH ED. (2017) FBC LFS
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		BY

DATE: 10/4/13

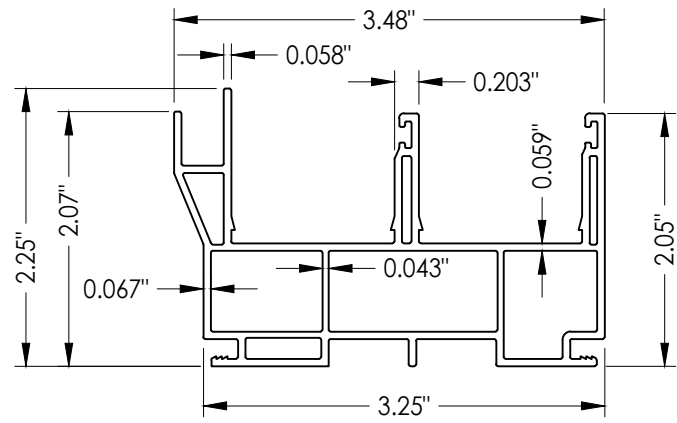
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DWG. BY: JK

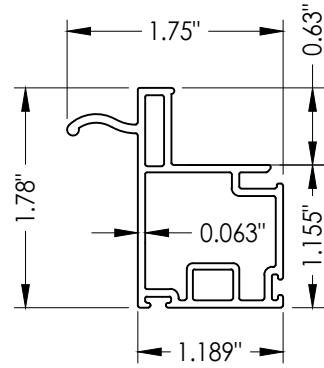
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DRAWING NO.:  
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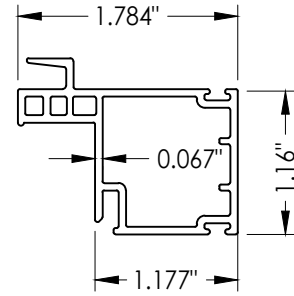
SHEET 4 OF 6



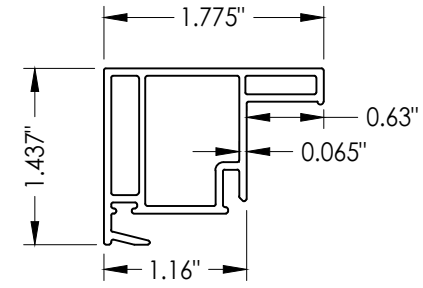
**1** FRAME



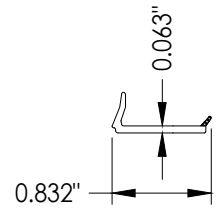
**2** SLIDER PULL STILE



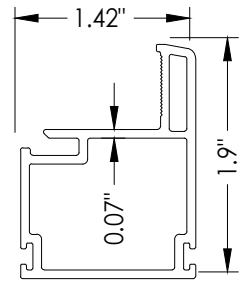
**3** LOCK STILE



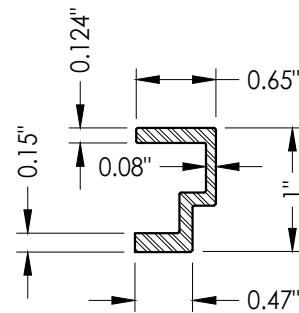
**4** KEEPER STILE



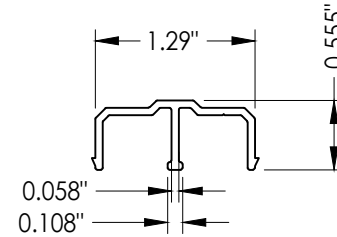
**5** GLAZING BEAD



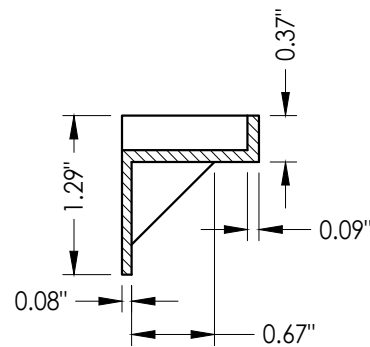
**6** SLIDER COMMON RAIL



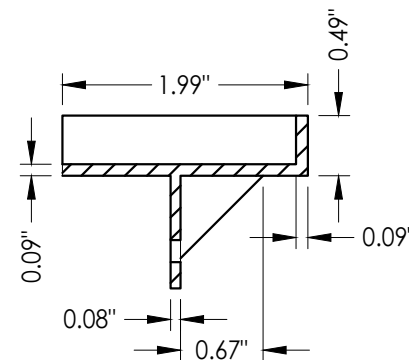
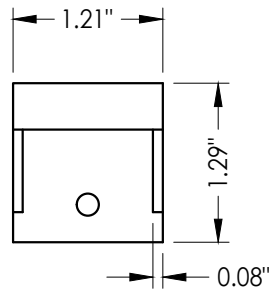
**10** REINFORCEMENT



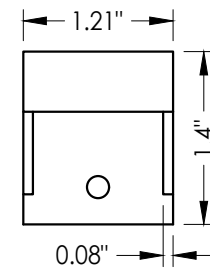
**11** SILL TRACK



**19** LOWER FLANKER STOP



**20** UPPER FLANKER STOP



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PART OR ASSEMBLY:  
COMPONENTS

NO.	DATE	BY
4	7/06/23	LFS
3	7/06/20	LFS
2	6/01/17	LFS
1	1/28/15	JK

REVISIONS

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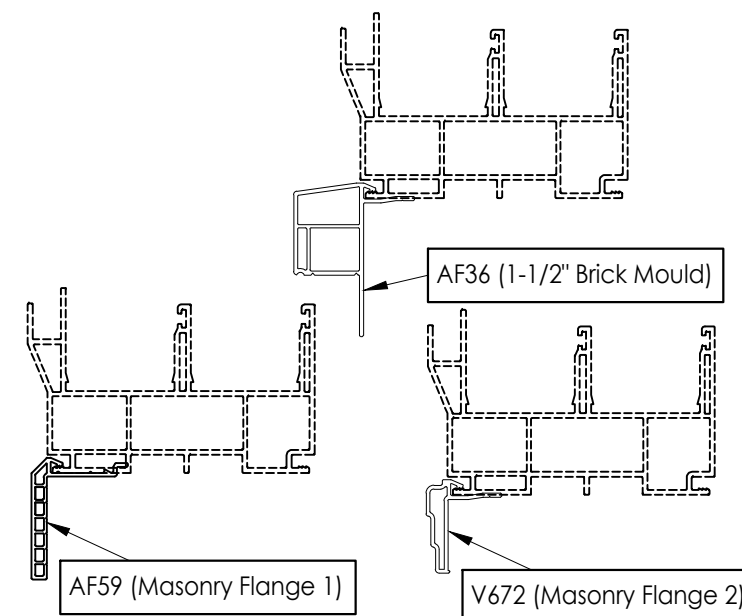
SHEET 5 OF 6

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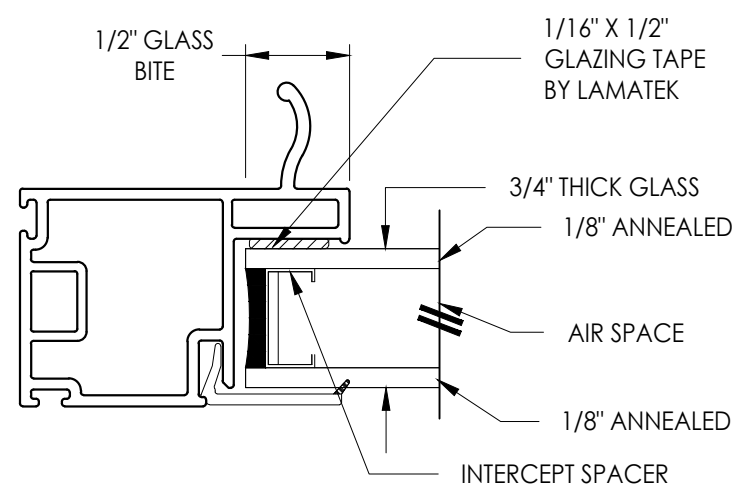
**BILL OF MATERIALS**

ITEM #	DESCRIPTION	PART#	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	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	-	STEEL
G	#10 X 1-3/4" PPH WOOD SCREW (1-3/16" MIN. EMBEDMENT)	-	STEEL
J	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	-	STEEL
K	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	-	STEEL
1	FRAME*	DS5401A	PVC
2	SLIDER PULL STILE*	SE4647	PVC
3	LOCK STILE*	SE4646	PVC
4	KEEPER STILE*	SE4644	PVC
5	GLAZING BEAD*	22841	PVC
6	SLIDER COMMON RAIL*	SE4645	PVC
7	BALL BEARING ROLLER	-	-
8	WEATHERSTRIP (0.230")	-	-
9	WEATHERSTRIP (0.380")	-	-
10	REINFORCEMENT (6063-T6 ALUM)	-	ALUM
11	SILL TRACK*	V777	PVC
15	WEEPHOLE CAP*	WEEP-1288	PVC
16	#8 X 3" PFH SMS (1-5/16" MIN. EMBEDMENT)	-	STEEL
17	#8 X 1-1/4" PFH SMS	-	ALUM
18	#8 X 3/4" PFH WOOD SCREW	-	STEEL
19	LOWER FLANKER STOP	2991C	NYLON
20	UPPER FLANKER STOP	2991B	NYLON

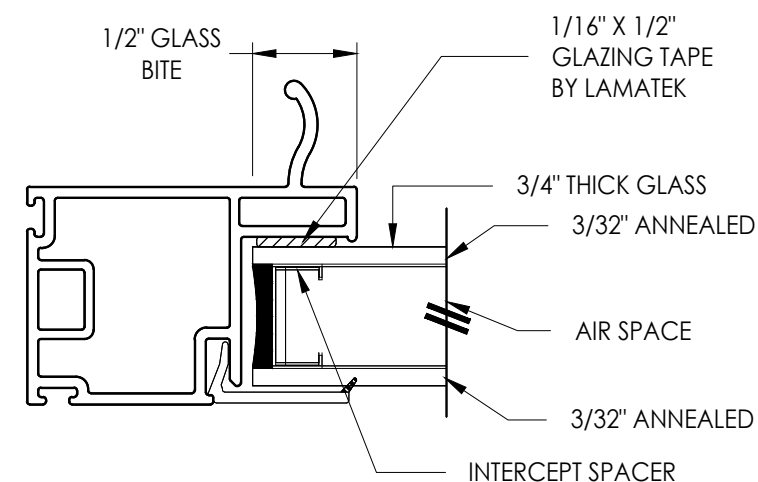
\* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



**OPTIONAL COSMETIC FLANGES**



**G1** GLAZING DETAIL



**G2** GLAZING DETAIL

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PART OR ASSEMBLY:  
BILL OF MATERIALS  
& GLAZING DETAIL

NO.	DATE	REVISIONS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
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SHEET 6 OF 6