



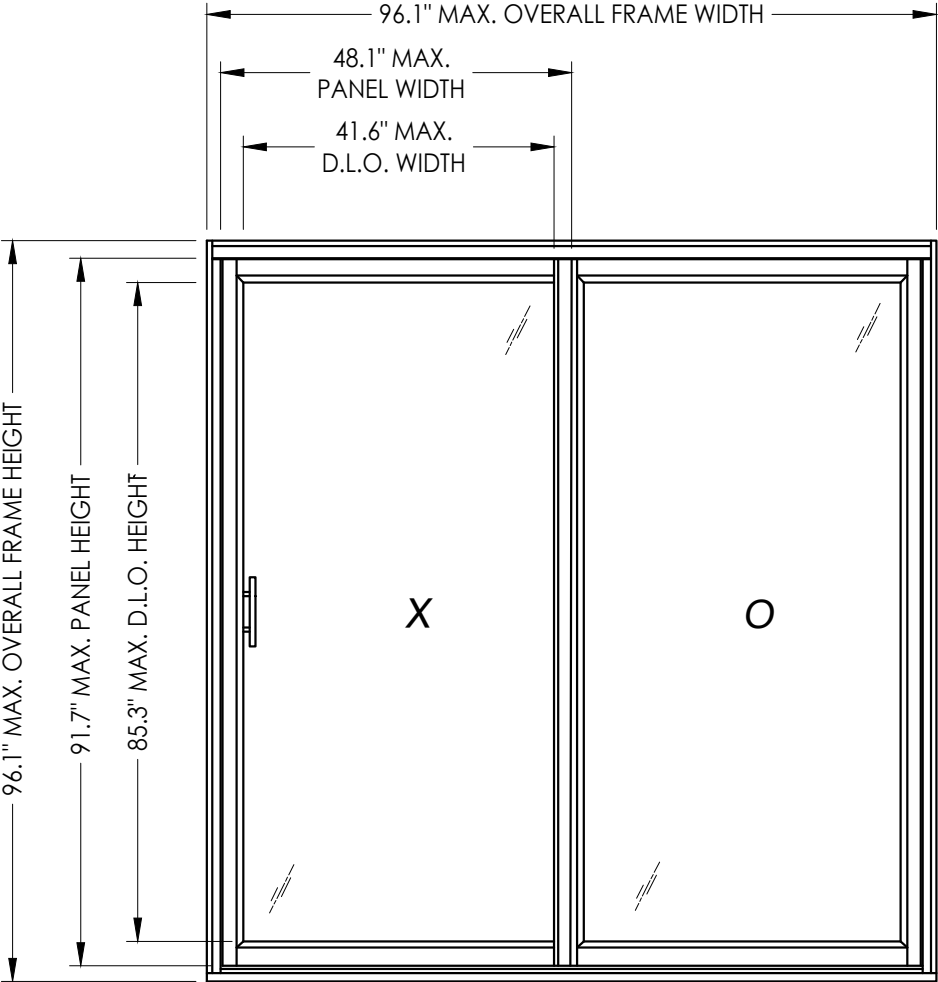
250 Staunton Turnpike, Parkersburg, WV 26104

5400/5400S/7700/9900 Series
Vinyl Sliding Patio Door
"NON-IMPACT"

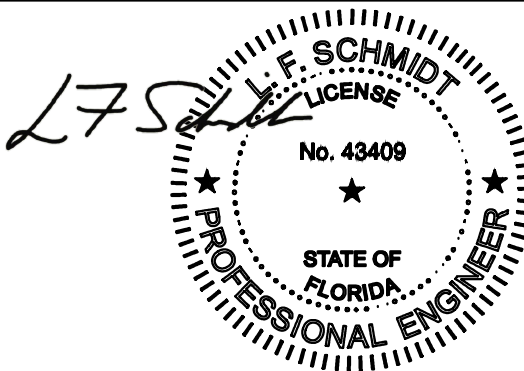
GENERAL NOTES

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	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Horizontal cross sections
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4	Horizontal cross sections
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6	Buck & frame anchoring
7	Buck & frame anchoring
8	Glazing details
9	Bill of materials & components



OVERALL FRAME DIMENSION	MAX. PANEL DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
70.9" x 81.9"	35.4" X 77.6"	28.9" X 71.2"	G1, G2, G3	+60.0	-60.0
94.5" x 79.5"	47.2" X 75.2"	40.7" X 68.8"	G1, G2, G3	+40.0	-40.0
96.1" x 96.1"	48.1" X 91.7"	41.6" X 85.3"	G1, G2, G3	+35.0	-35.0



Digitally signed by
Lyndon F Schmidt
Date: 2026.07.27
14:17:18 -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:
5400/5400S/7700/9900 SERIES
SLIDING PATIO DOORS

DATE: 4/02/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16216.4

SHEET 1 OF 9

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

REVISIONS

8 7/01/26 UPDATE TO 9TH ED. (2026) FBC LFS

7 7/06/23 UPDATE TO 8TH ED. (2023) FBC LFS

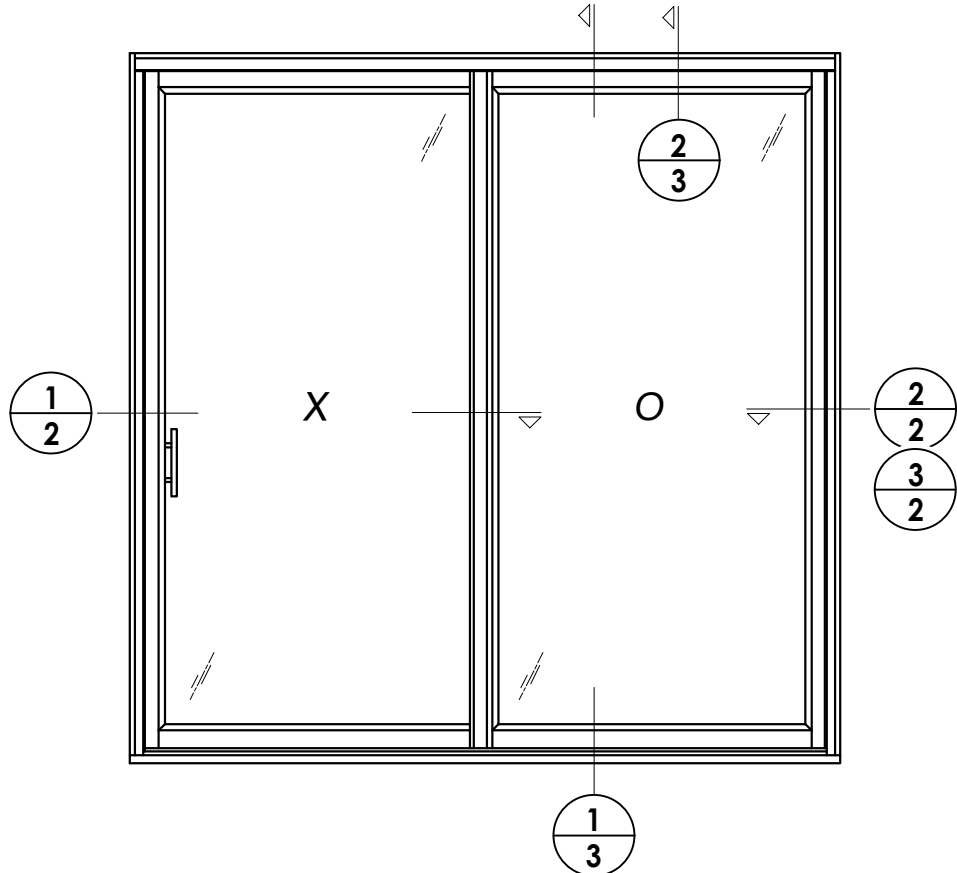
6 7/06/20 UPDATE TO 7TH ED. (2020) FBC LFS

NO. DATE

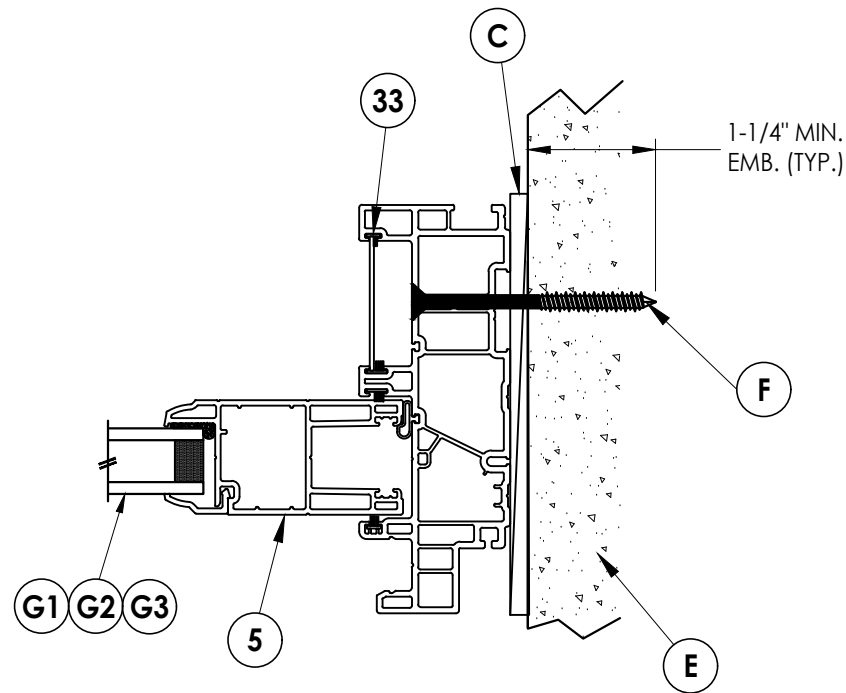
BY

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

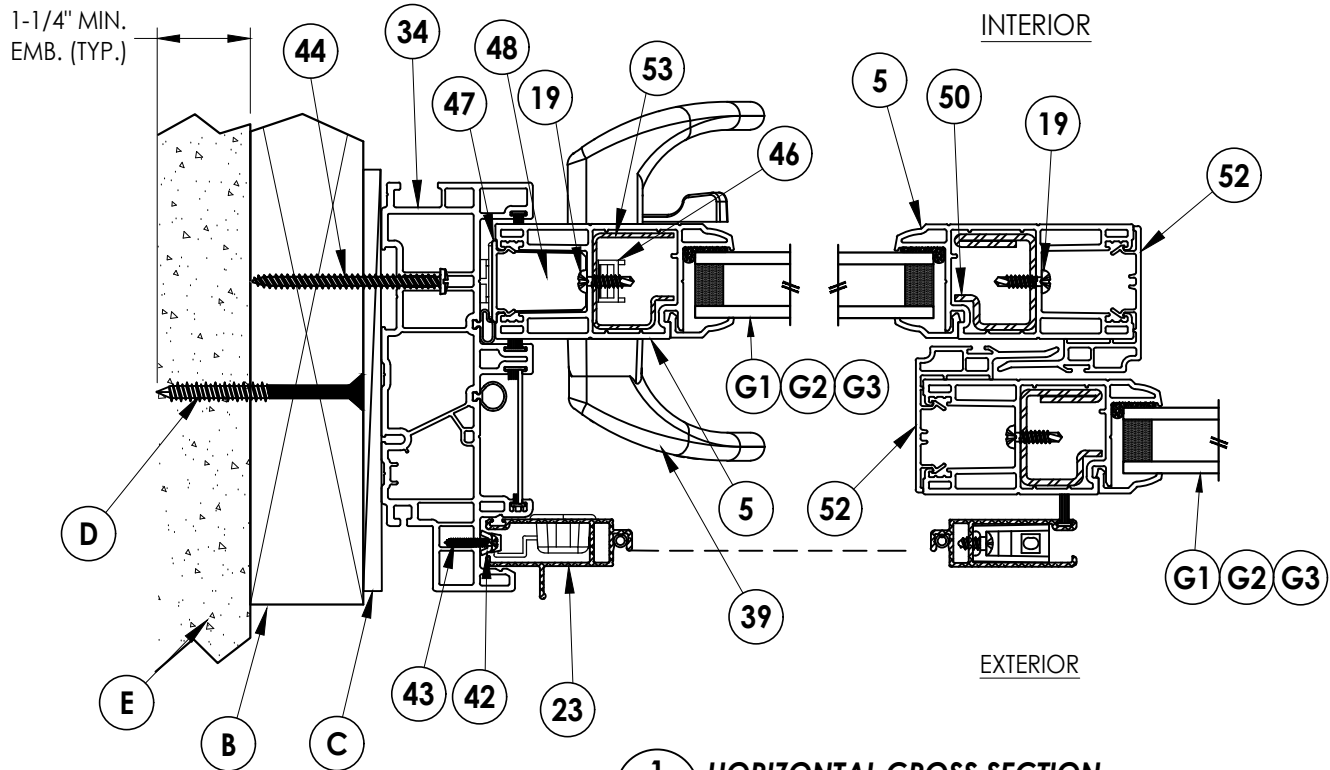
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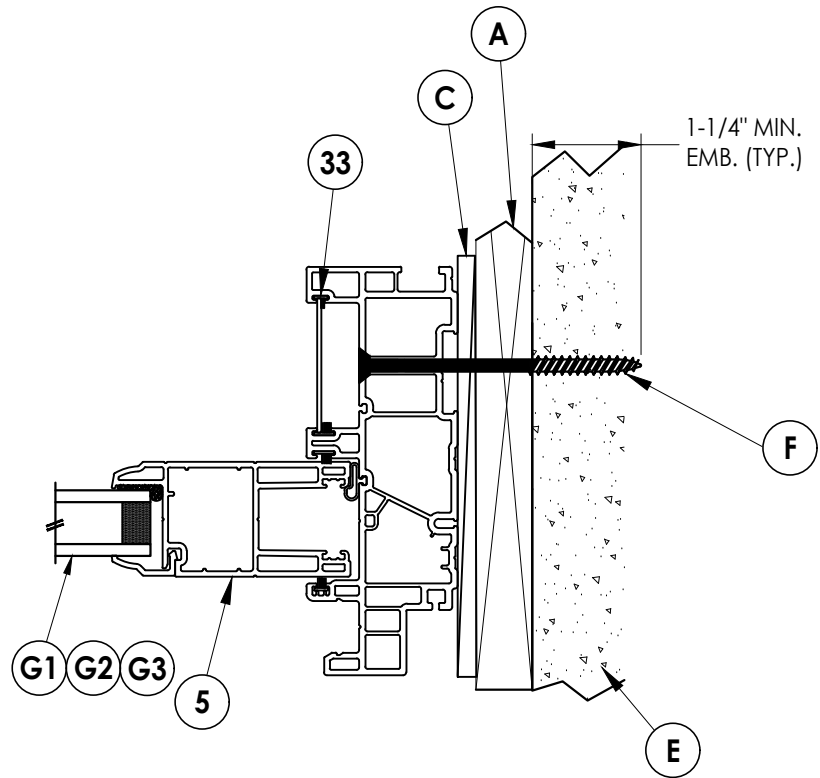
ANCHORING UP TO 94.5" X 79.5" FRAME SIZE



3/2 HORIZONTAL CROSS SECTION
Shown Direct to Masonry



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



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

PRODUCT:
5400/5400S/7700/9900 SERIES
SLIDING PATIO DOORS

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

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

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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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DATE: 4/02/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16216.4

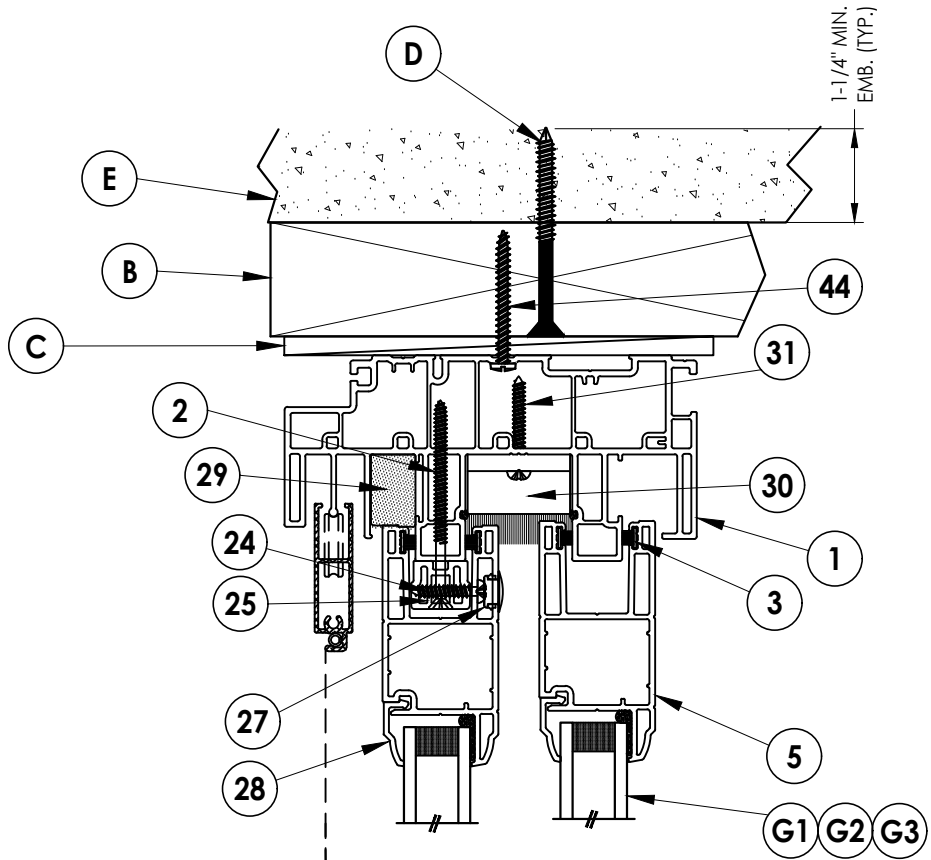
SHEET 2 OF 9

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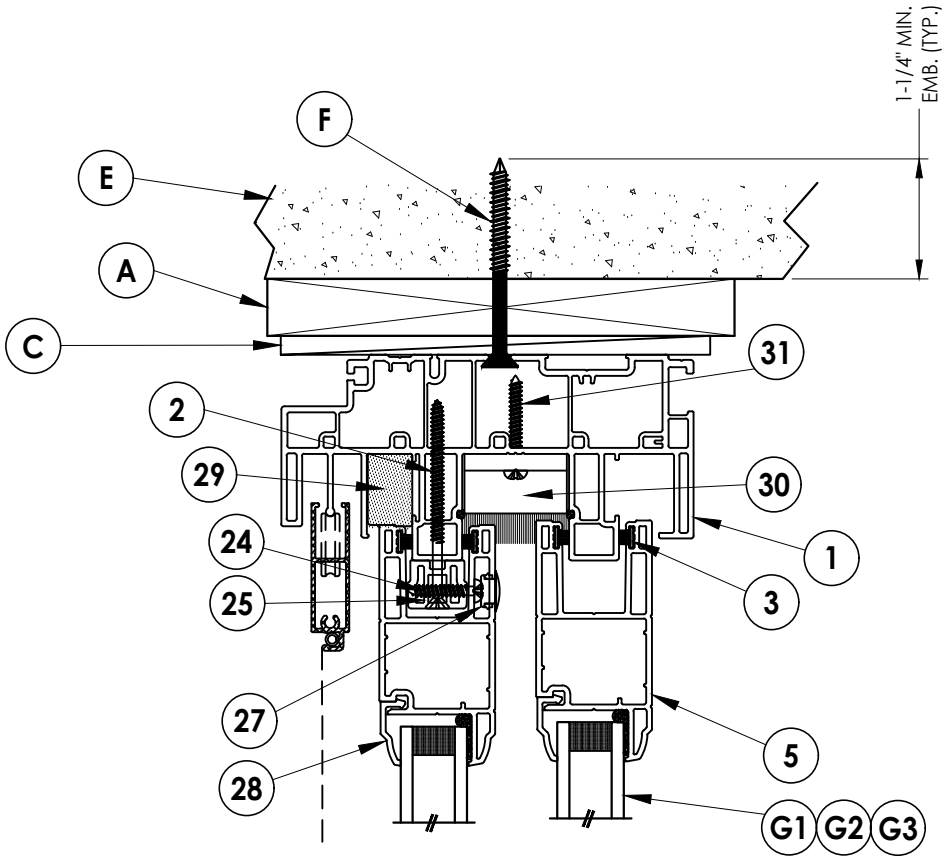
REVISIONS

NO.	DATE	BY
8	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	7/06/20	UPDATE TO 7TH ED. (2020) FBC LFS

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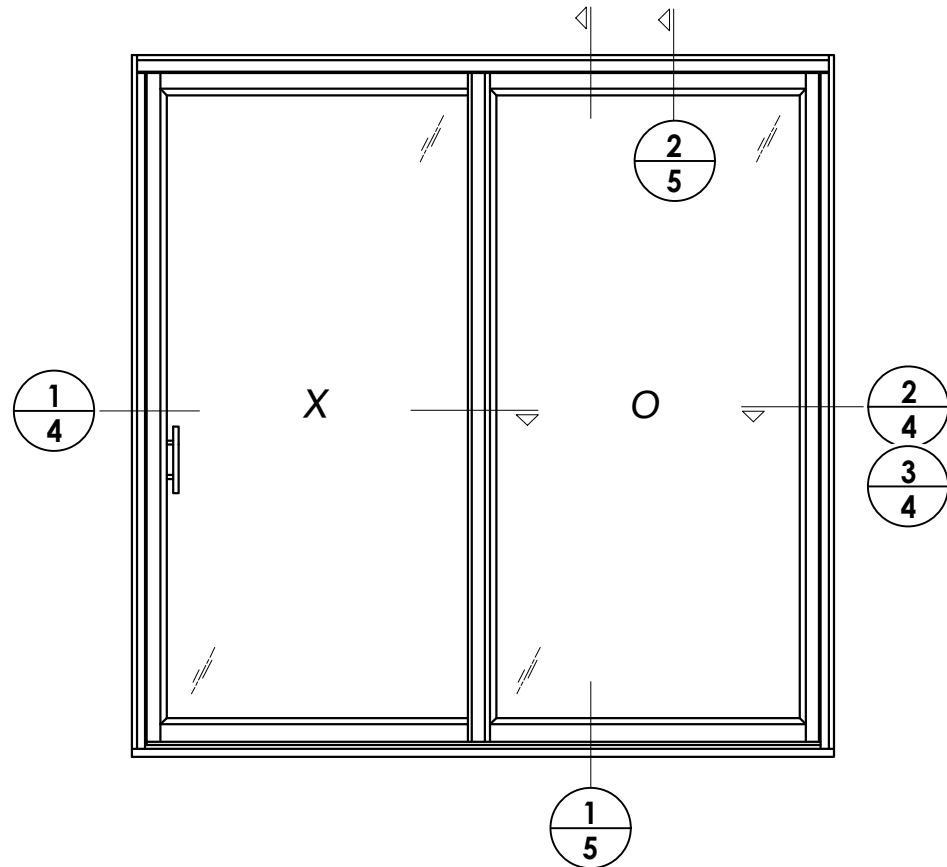


1 VERTICAL CROSS SECTION
3 Shown w/ 2X Buck at head & Direct to Masonry @ sill



2 VERTICAL CROSS SECTION
3 Shown w/ 1X Buck

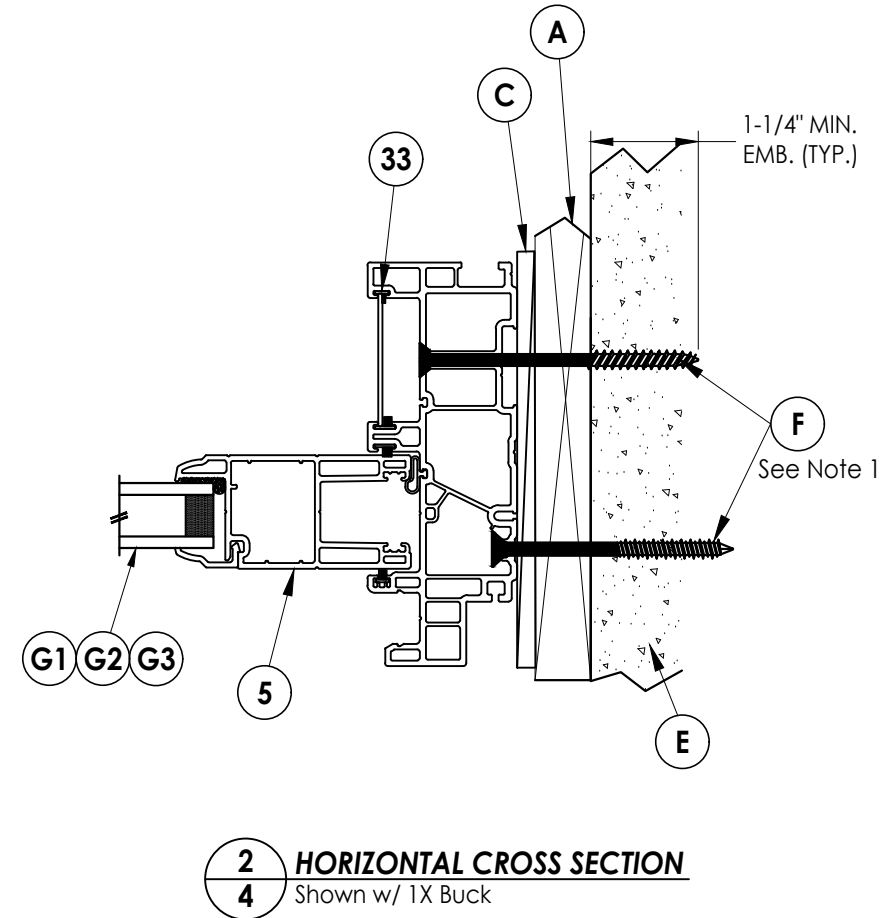
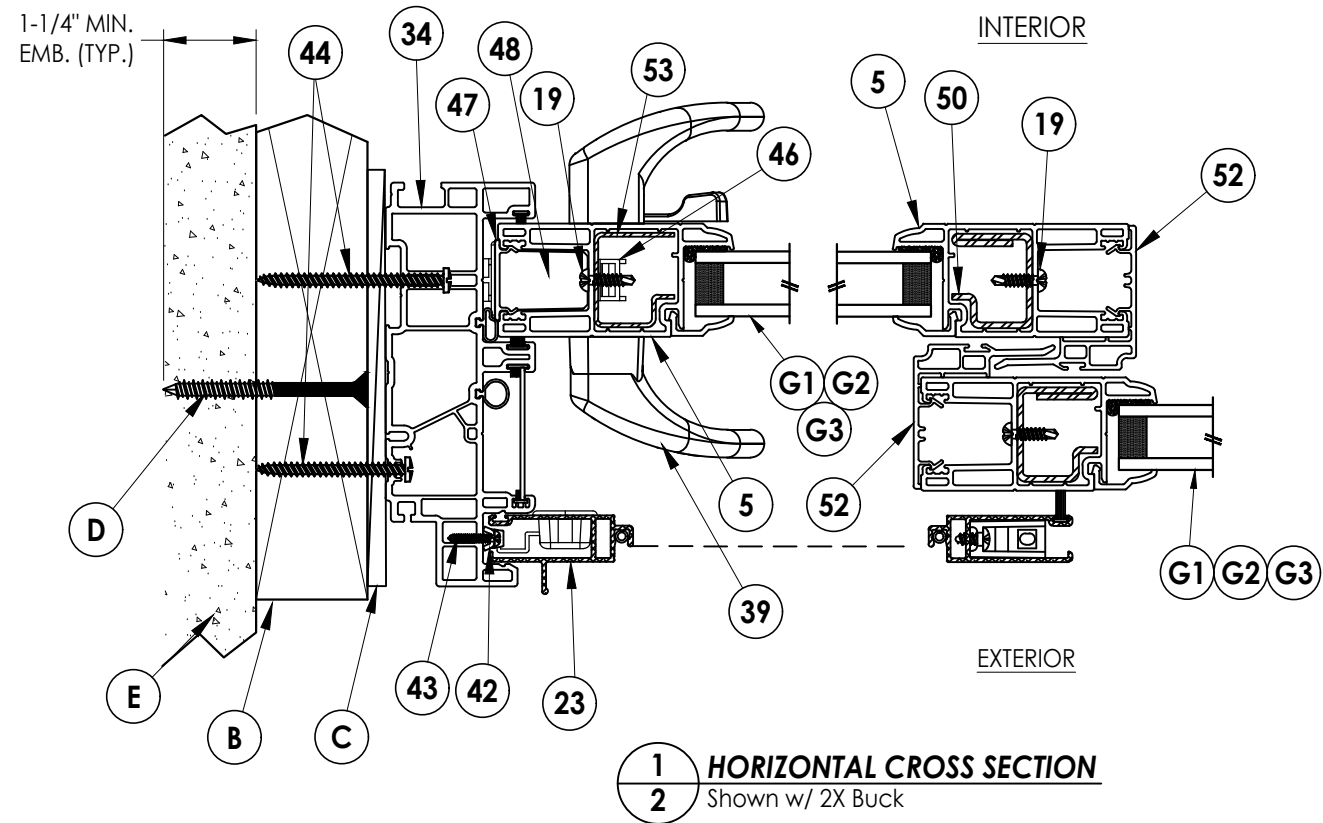
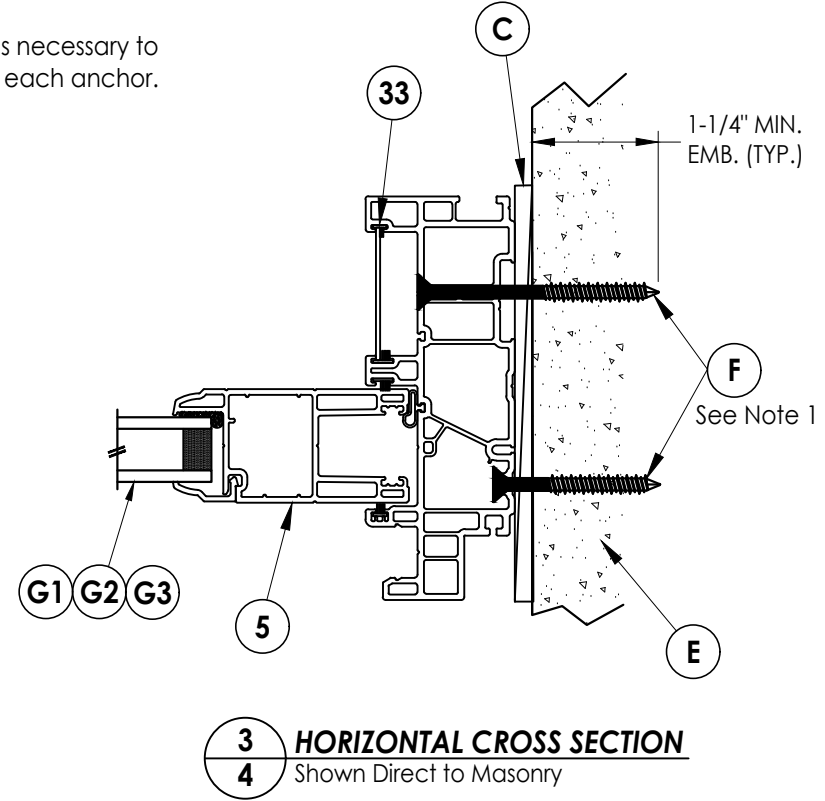
PRODUCT:		Documents Prepared By:		
5400/5400S/7700/9900 SERIES		Lyndon F. Schmidt		
SLIDING PATIO DOORS		P.E. No. 43409		
PART OR ASSEMBLY:		BUILDING CONSULTANTS, INC.		
VERTICAL		P.O. Box 230, Valrico, FL 33595		
CROSS SECTIONS		Phone No.: 813.659.9197		
		.FBPE C.A. No. 9813		
8	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
7	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
6	7/06/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
NO.	DATE		BY	
REVISIONS				
DATE: 4/02/13				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-16216.4				
SHEET 3 OF 9				



ANCHORING UP TO 96.1" X 96.1" FRAME SIZE

NOTES:

1. Stagger concrete anchors as necessary to maintain min. of 4" between each anchor.

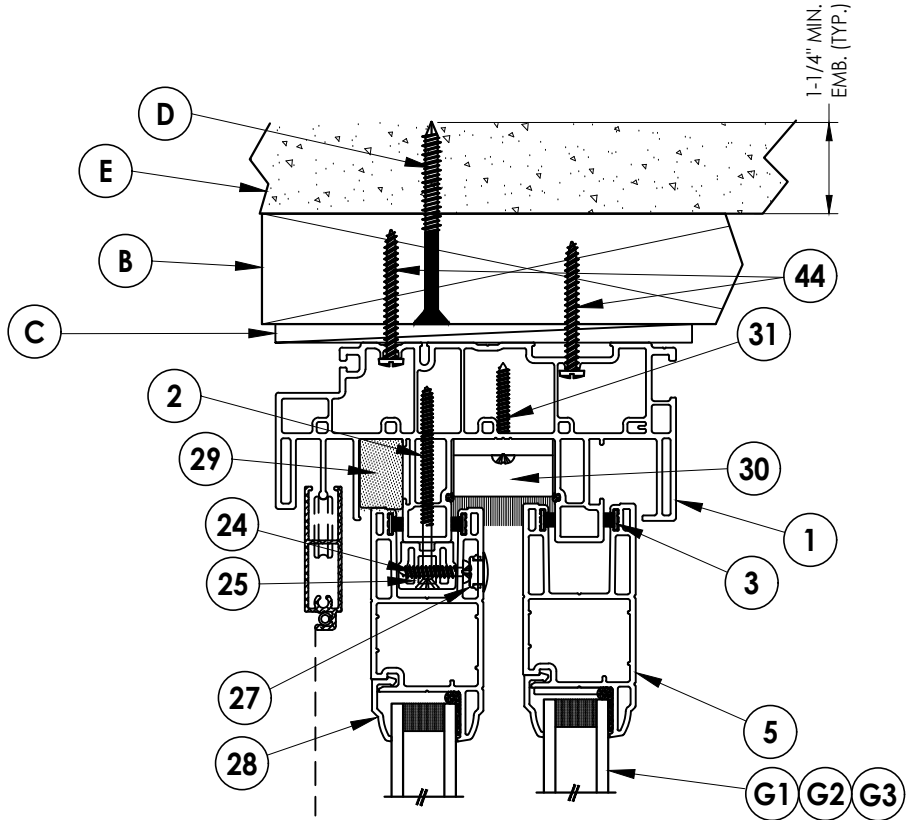


DATE: 4/02/13		PRODUCT:	
SCALE: N.T.S.		5400/5400S/7700/9900 SERIES SLIDING PATIO DOORS	
DWG. BY: JK		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
CHK. BY: LFS			
DRAWING NO.: FL-16216.4			
SHEET 4 OF 9			

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P.E. No. 43409

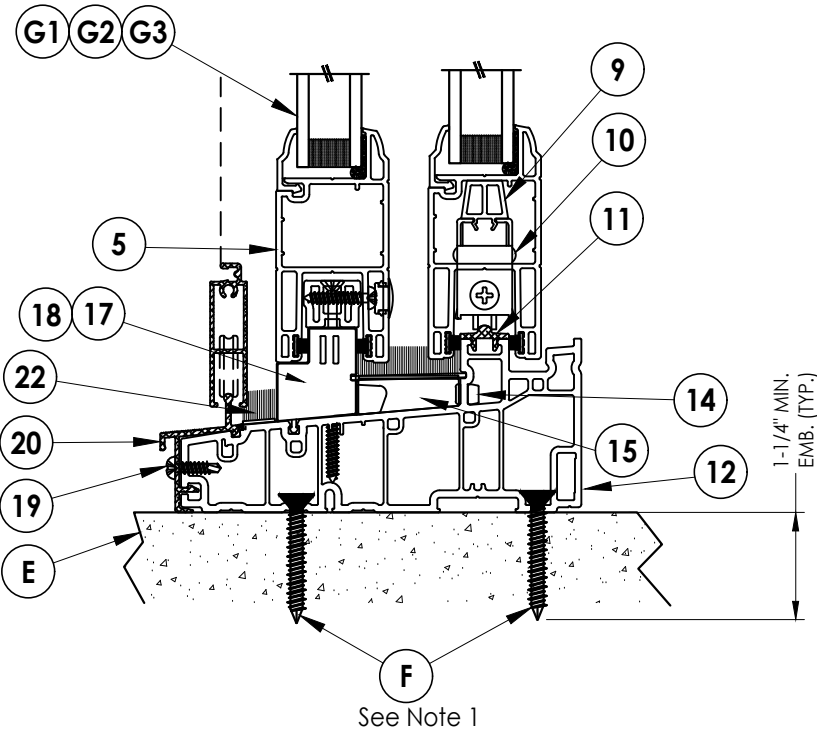
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Phone No.: 813.659.9197
FBPE C.A. No. 9813

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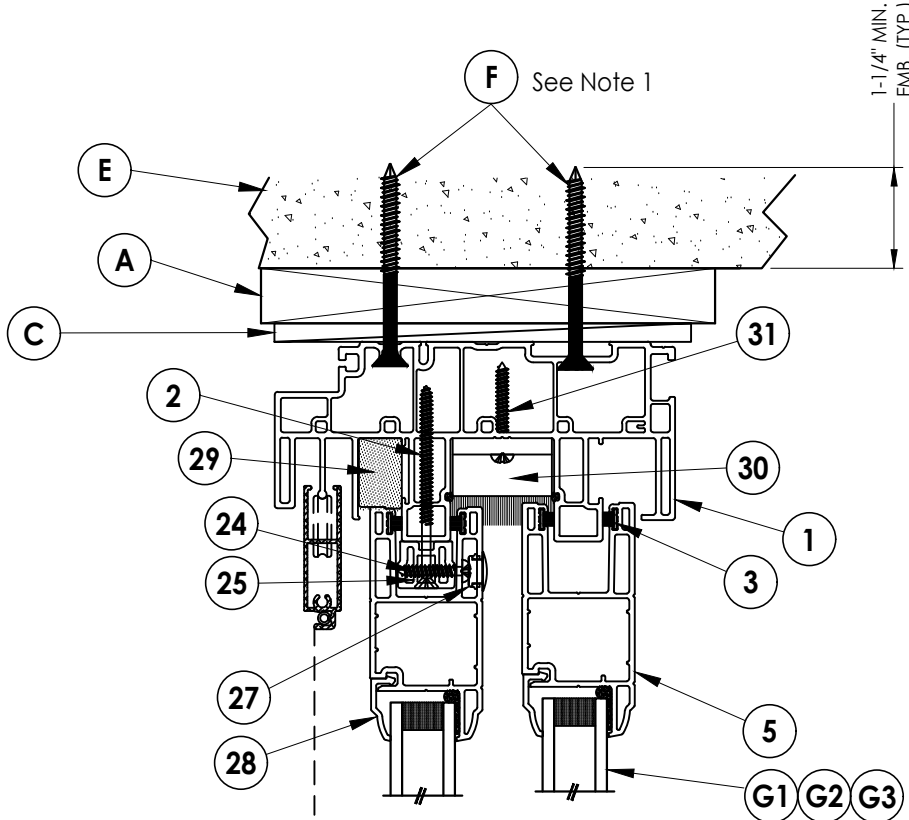


EXTERIOR

INTERIOR



1 VERTICAL CROSS SECTION
Shown w/ 2X Buck at head &
Direct to Masonry @ sill



EXTERIOR

INTERIOR

2 VERTICAL CROSS SECTION
Shown w/ 1X Buck

NOTES:
1. Stagger concrete anchors as necessary to
maintain min. of 4" between each anchor.

PRODUCT:
5400/5400S/7700/9900 SERIES
SLIDING PATIO DOORS

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

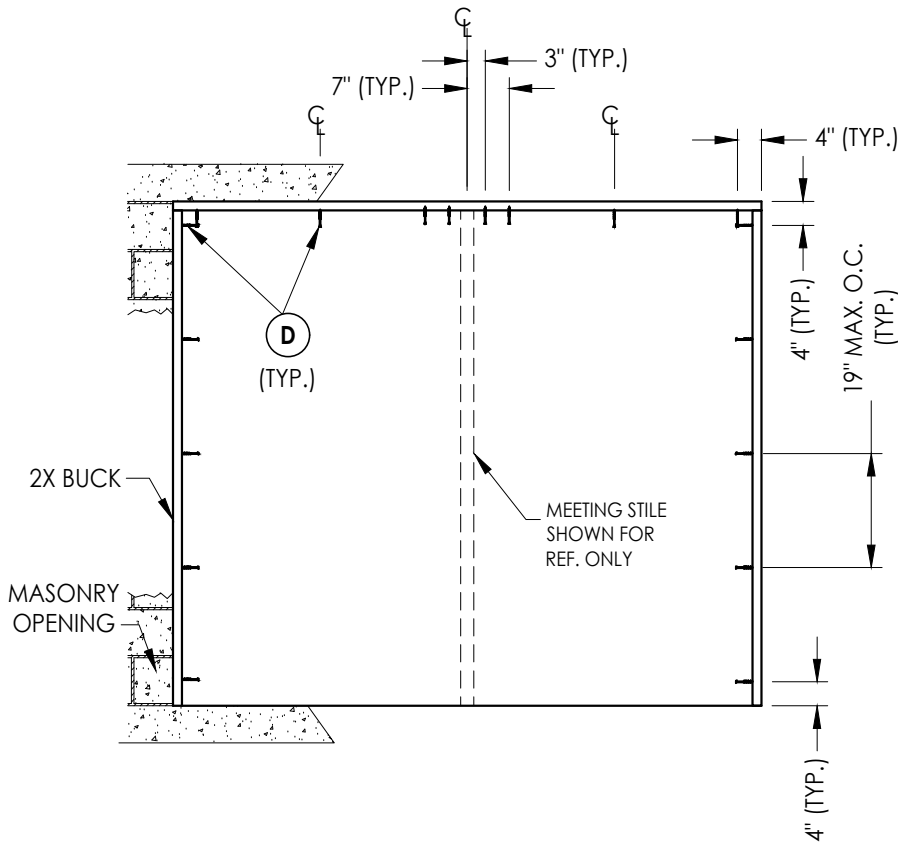
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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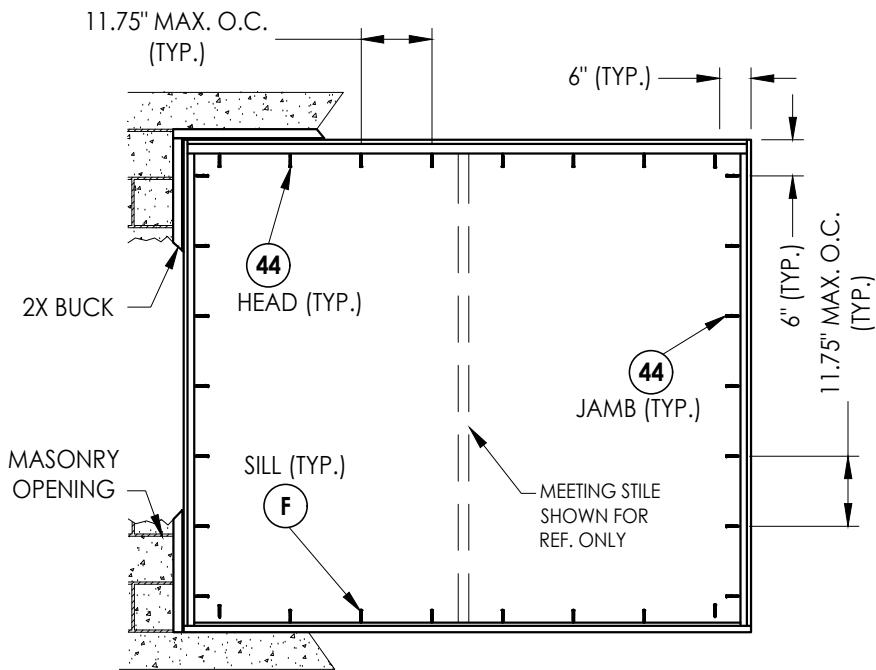
DATE: 4/02/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-16216.4
SHEET 5 OF 9

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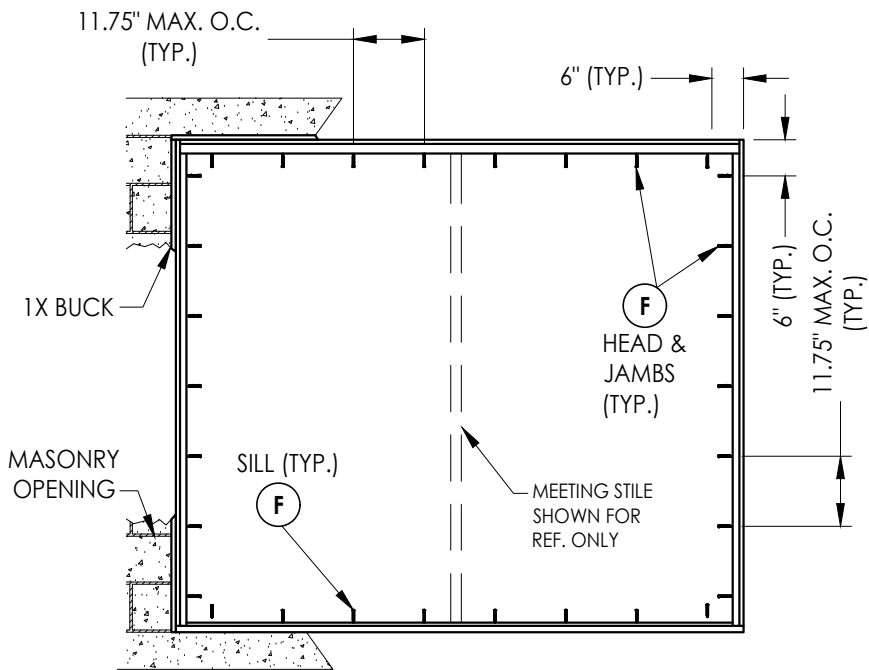
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**BUCK ANCHORING
MASONRY**



**FRAME ANCHORING
2X Buck**



**FRAME ANCHORING
1X Buck, Direct to Masonry**

ANCHORING UP TO 94.5" X 79.5" FRAME SIZE

NOTE: One (1) ANCHOR REQ'D @ EACH LOCATION SHOWN

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.

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.

Documents Prepared By:
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RW BUILDING CONSULTANTS, INC.
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. FBPE C.A. No. 9813

PRODUCT:
5400/5400S/7700/9900 SERIES
SLIDING PATIO DOORS

PART OR ASSEMBLY:
BUCK & FRAME
ANCHORING

NO.	DATE	REVISIONS
8	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	7/06/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 4/02/13

SCALE: N.T.S.

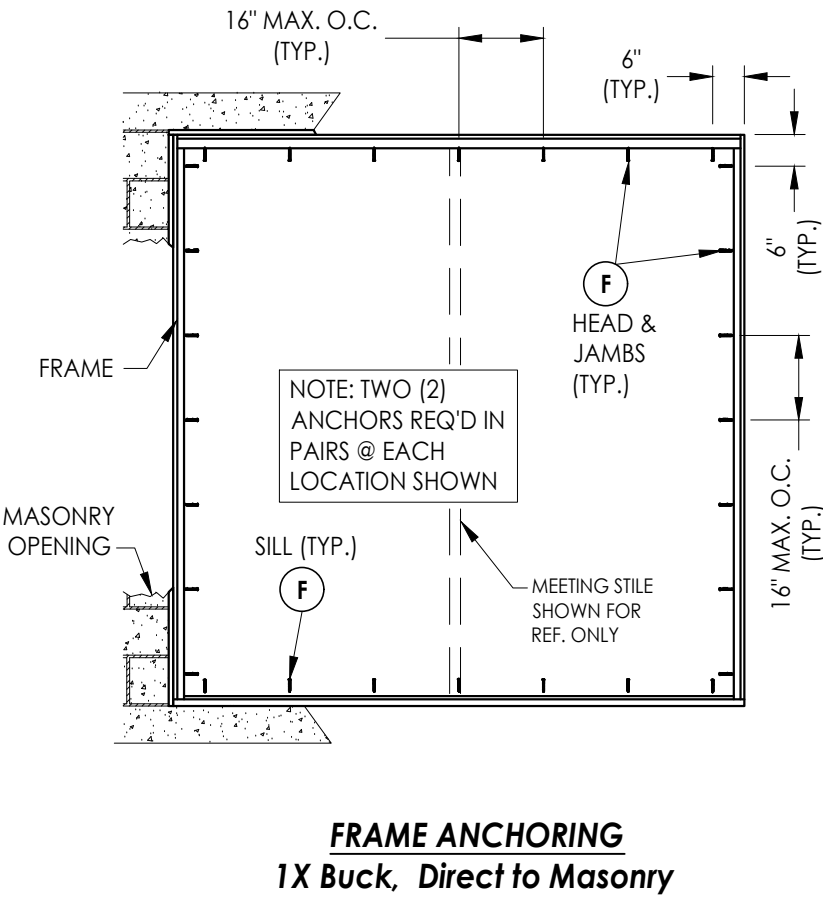
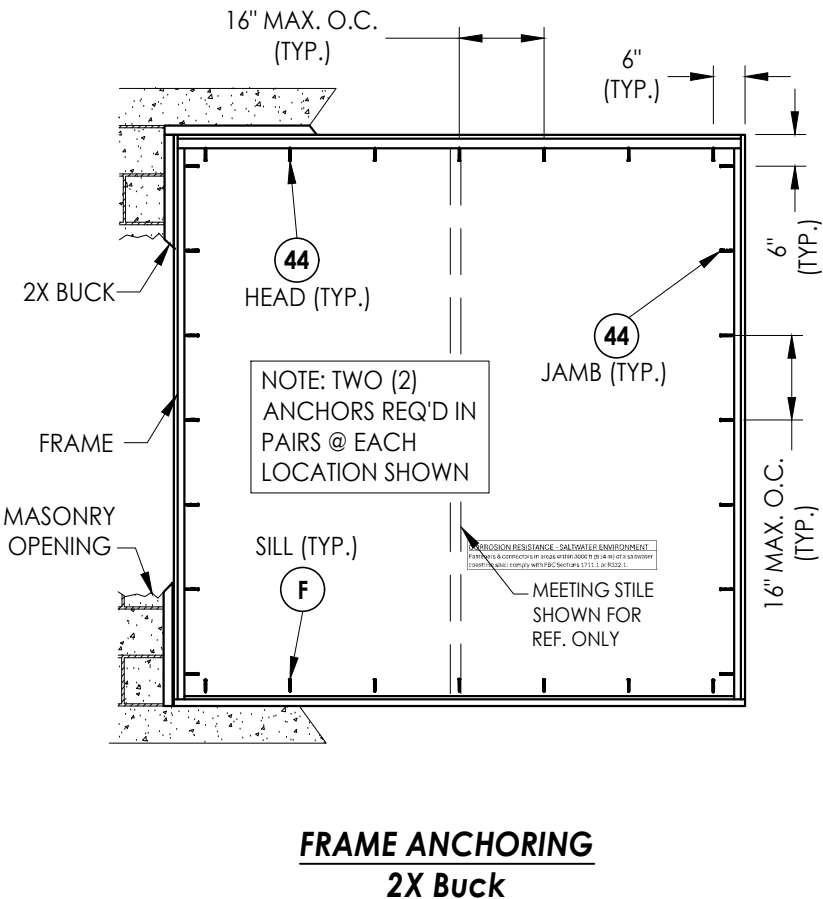
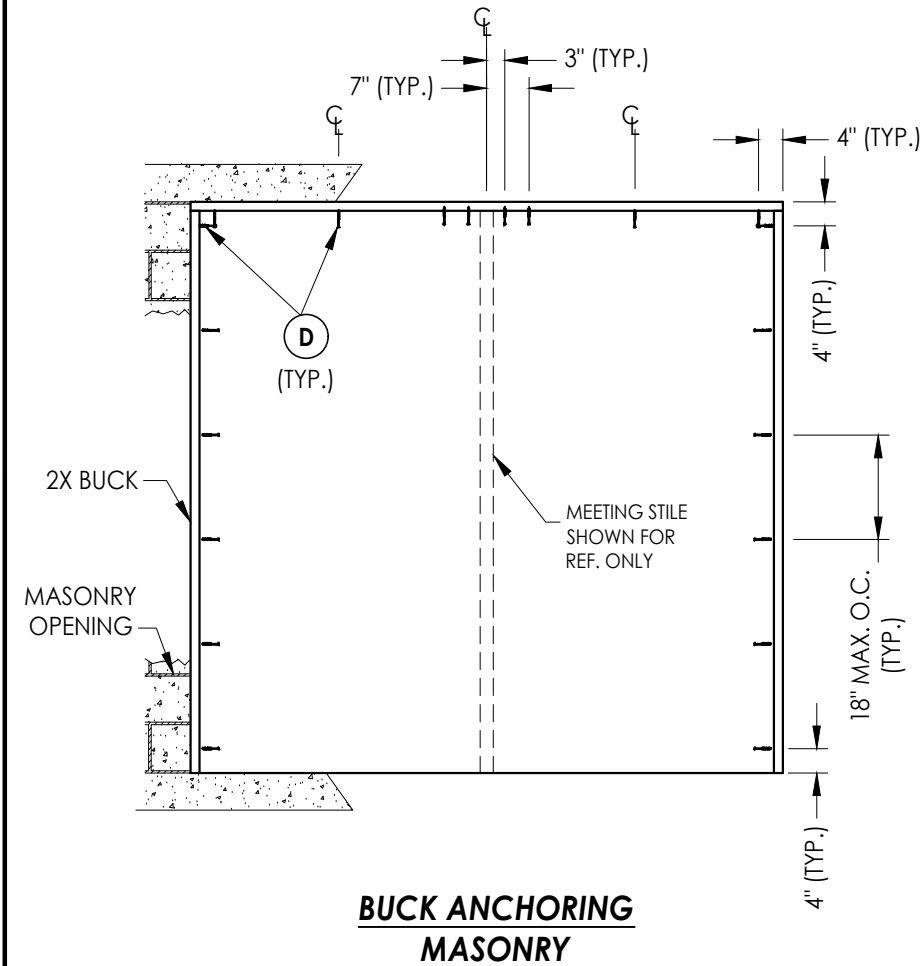
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CHK. BY: LFS

DRAWING NO.:
FL-16216.4

SHEET 6 OF 9

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- 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.

ANCHORING UP TO 96.1" X 96.1" FRAME SIZE

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.

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

PRODUCT:
5400/5400S/7700/9900 SERIES
SLIDING PATIO DOORS

PART OR ASSEMBLY:
BUCK & FRAME
ANCHORING

REVISIONS

DATE: 4/02/13

SCALE: N.T.S.

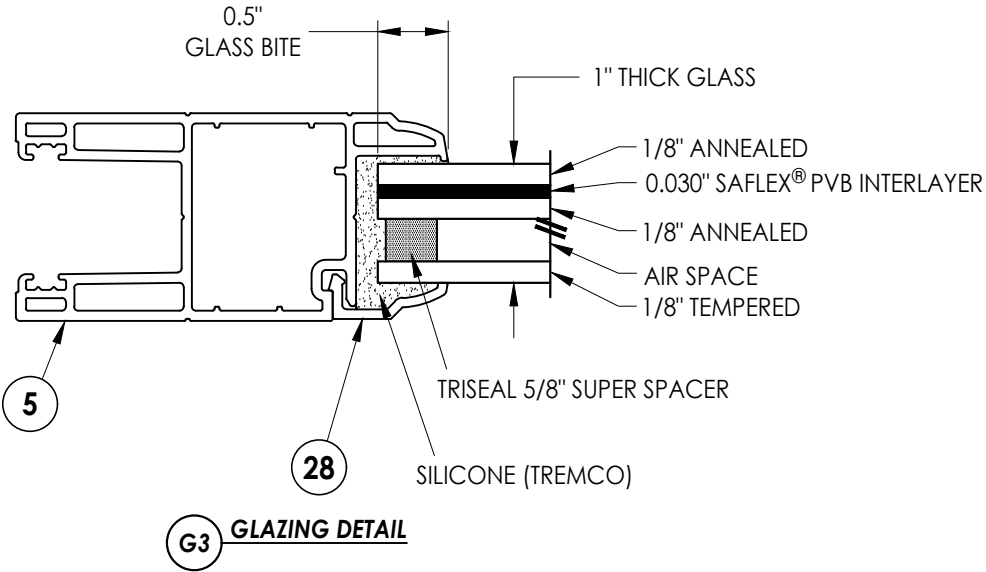
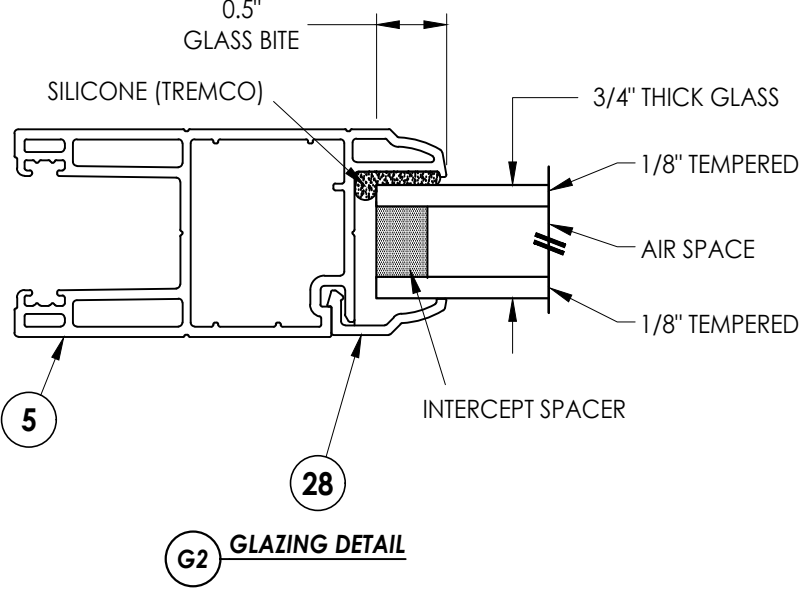
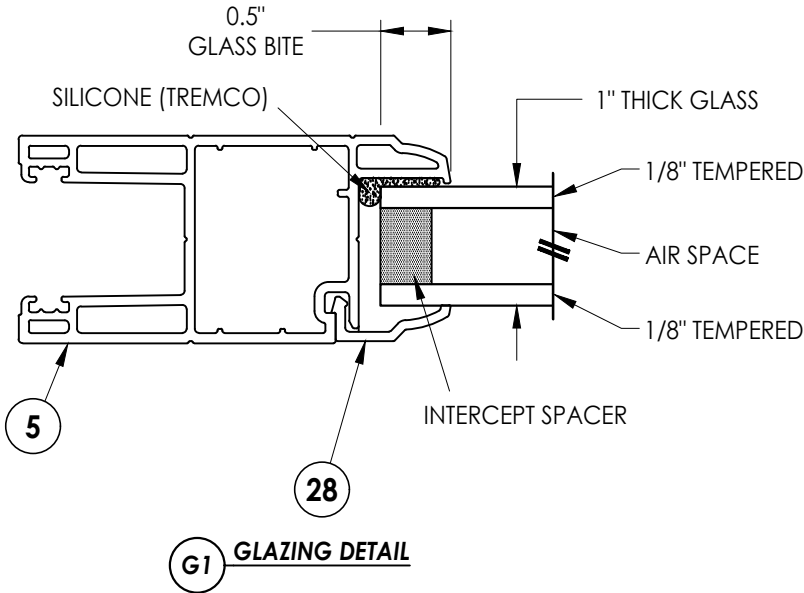
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CHK. BY: LFS

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SHEET 7 OF 9

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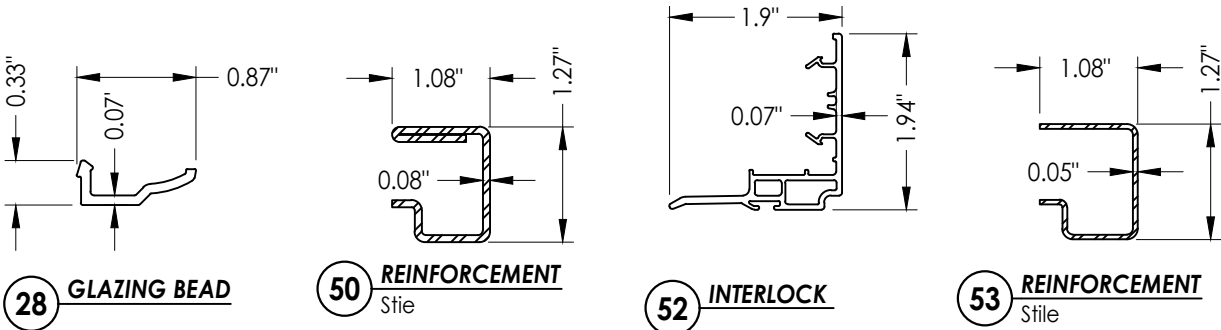


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PRODUCT: 5400/5400S/7700/9900 SERIES SLIDING PATIO DOORS		PART OR ASSEMBLY: GLAZING DETAILS					
				LFS	FBC	LFS	
				LFS	FBC	LFS	
				LFS	FBC	LFS	
				BY			
				REVISIONS			
				NO.	DATE		
8	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
7	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
6	7/06/20	UPDATE TO 7TH ED. (2020)	FBC	LFS			
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CHK. BY: LFS							
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SHEET 8 OF 9							

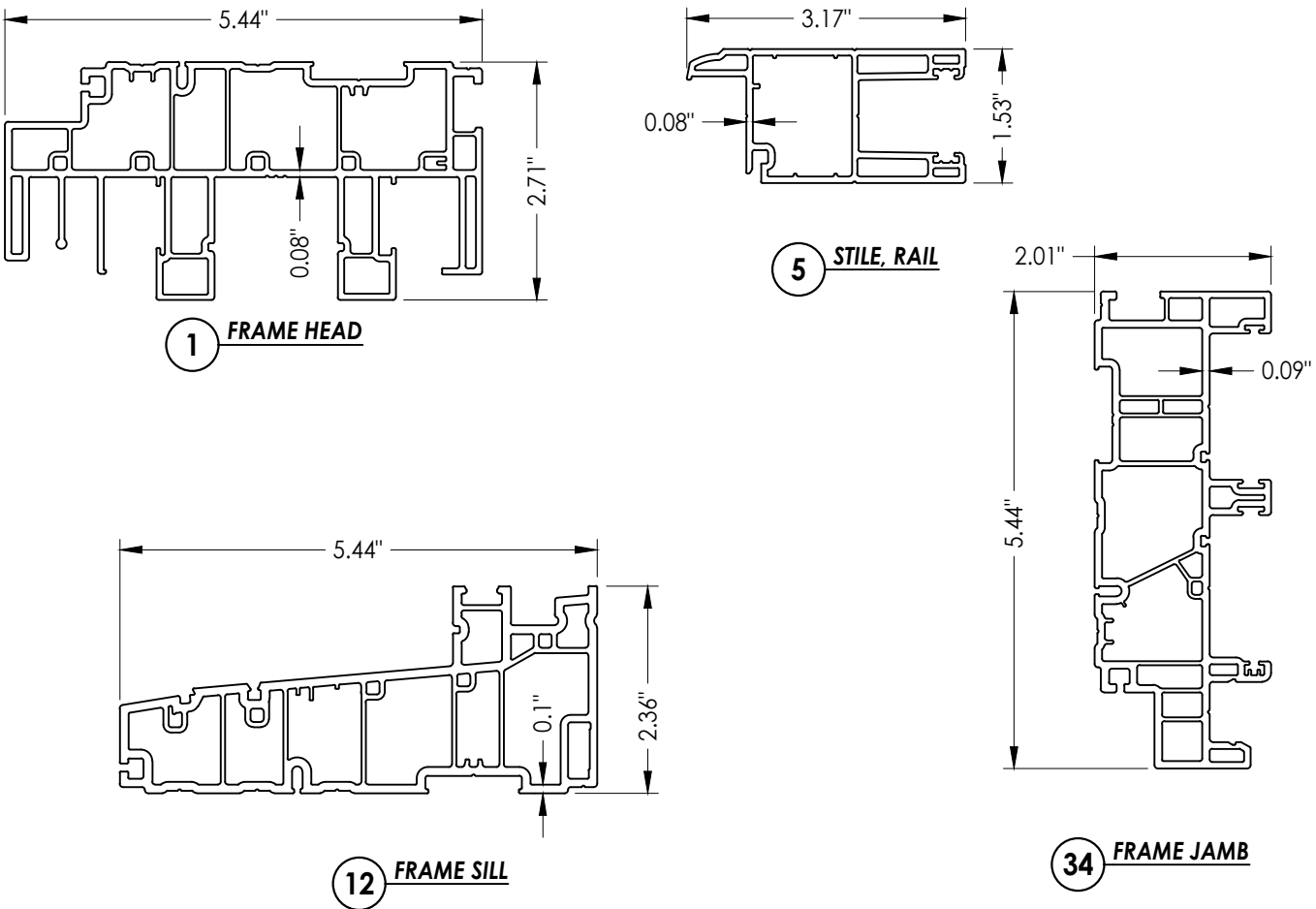
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" DeWALT OR ITW CONCRETE SCREW (1-1/4" MIN. EMBEDMENT REQ'D. INTO CONCRETE)	STEEL
1	FRAME HEAD*	PVC
2	#8 x 2-3/4" FH QUADREX WOOD SCREW	STEEL
3	WEATHERSTRIP (SCHLEGEL #HF-7522-270)	-
4	HEAD TRACK*	PVC
5	STILE & RAIL*	PVC
6	SETTING BLOCK	-
7	SILICONE (SIKA 552)	SILICONE
8	DURASEAL SPACER SYSTEM	-
9	SHIM	-
10	TANDEM WHEEL	NYLON
11	ROLLING RAIL	ALUM
12	SILL*	PVC
13	SILL DUST COVER*	PVC
14	SILL PLUG	NYLON
15	SILL WEATHERSEAL	-
17	LEFT CAP FOR SILL ADAPTER*	PVC
18	RIGHT CAP FOR SILL ADAPTER*	PVC
19	#8 X 5/8" PAN HEAD, SQUARE, SELF-DRILLING SCREW	STEEL
20	OUTSIDE SILL CLADDING	STEEL
22	INSECT STOP	-
23	SCREEN	-
24	#8 X 7/8" PAN HEAD, QUADREX, SCREW	STEEL
25	FIXED PANEL ANCHOR BLOCK*	PVC
27	SCREW CAP	NYLON
28	GLAZING BEAD*	PVC

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



29	FOAM PLUG	-
30	HEAD WEATHERSEAL	-
31	#8 X 1-1/4" PAN HEAD, QUADREX, SCREW	STEEL
32	SASH STOPPER	EPDM
33	WEATHERSTRIP	-
34	FRAME JAMB*	PVC
35	WEATHERSTRIP	-
39	HANDLE KIT	STEEL
42	KEEPER FOR SCREEN	-
43	#4 X 5/8" PAN HEAD QUADREX SCREW	STEEL
44	#10 PPH WOOD SCREW (1-3/8" MIN. EMBEDMENT REQ'D INTO WOOD)	STEEL
46	STAINLESS STEEL DOUBLE POINT MORTISE LOCK KIT	STEEL
47	SASH COVERING CAP*	PVC
48	LOCK PLUG*	PVC
50	STILE REINFORCEMENT (CS TYPE B HOT DIPPED GALV.)	STEEL
51	#8 X 2" TRUSS HEAD QUADREX SCREW	STEEL
52	INTERLOCK*	PVC
53	STILE REINFORCEMENT (CS TYPE B HOT DIPPED GALV.)	STEEL
54	Q-LON WEATHERSTRIP (SCHLEGEL NO. QEZ 345)	-



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PRODUCT: 5400/5400S/7700/9900 SERIES SLIDING PATIO DOORS		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
		LFS	BY
		FBC	
8	7/01/26	UPDATE TO 9TH ED. (2026)	
7	7/06/23	UPDATE TO 8TH ED. (2023)	
6	7/06/20	UPDATE TO 7TH ED. (2020)	
NO.	DATE		
REVISIONS			
DATE: 4/02/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16216.4			
SHEET 9 OF 9			