

# Series 3900-T

## Aluminum Side Hinged Double Door w/ Sidelites

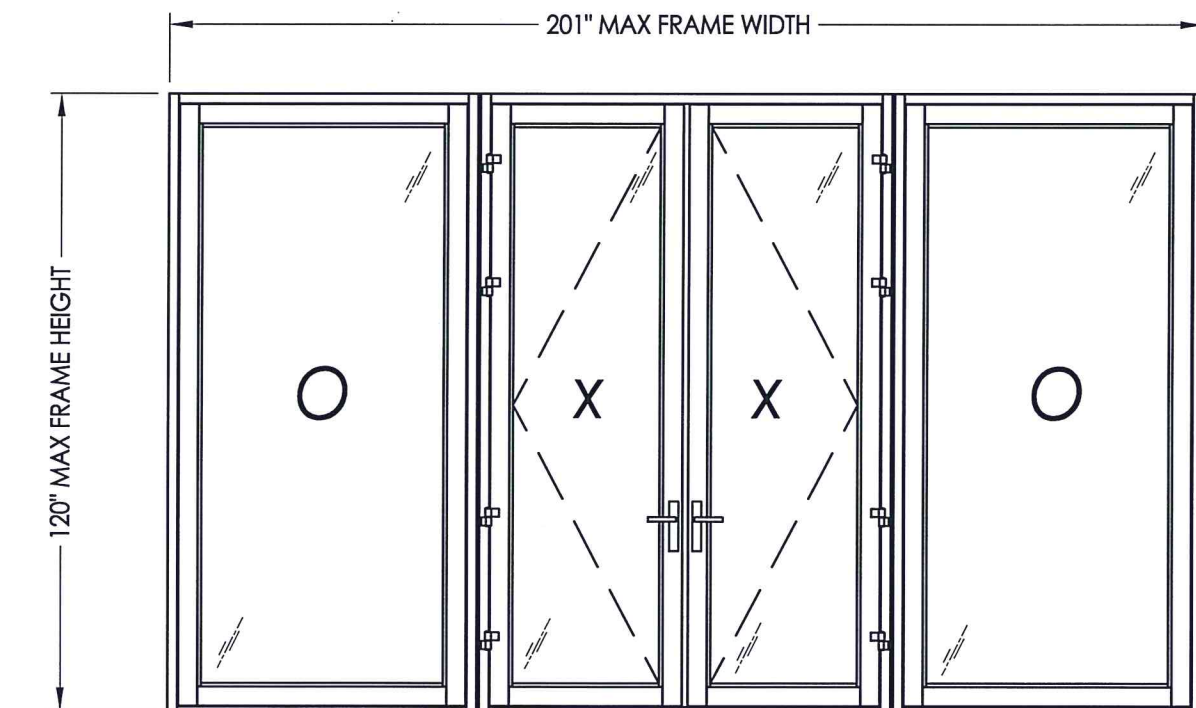
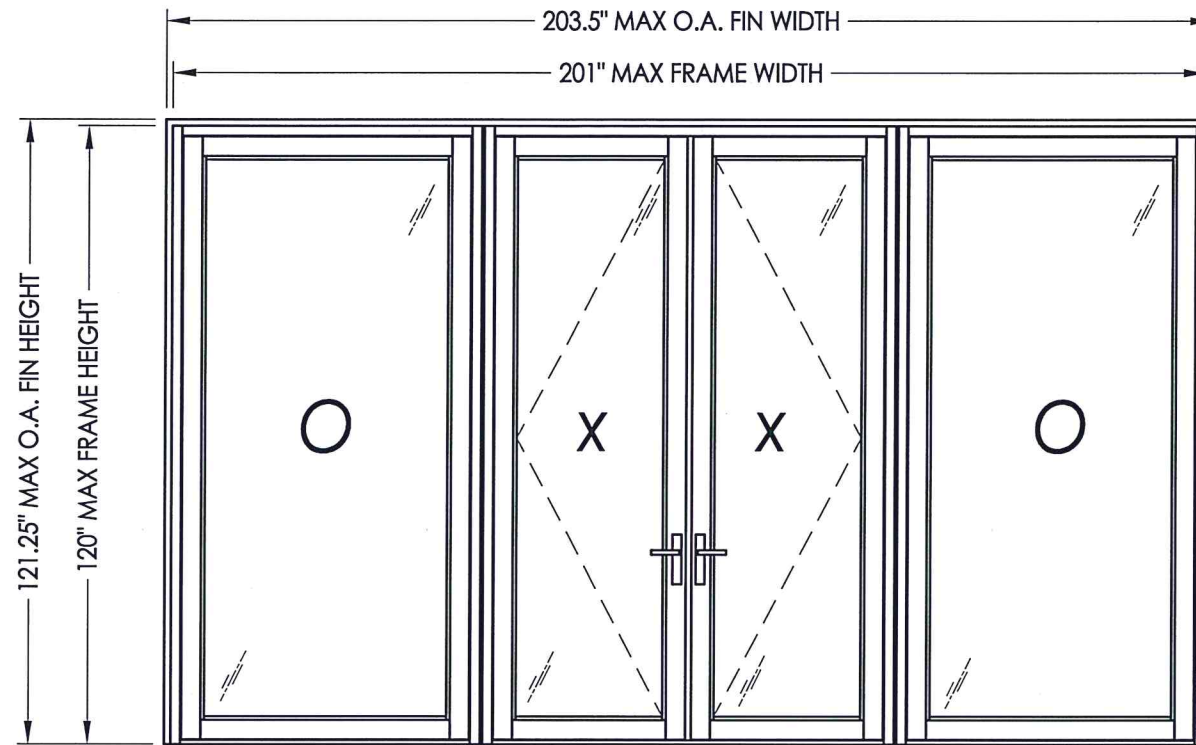
### Inswing/Outswing

#### "IMPACT"

**GENERAL NOTES**

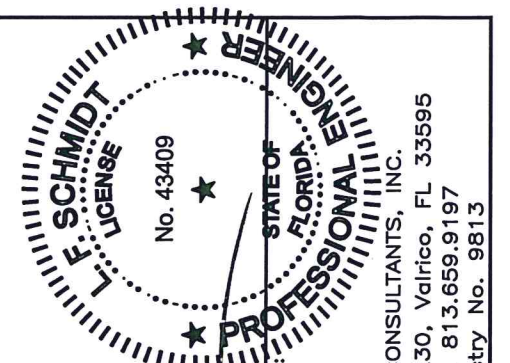
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 E 1996 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".
8. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.
9. Gaskets shall comply with FBC Section 2411.3.4.

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1	Typical elevations, design pressures and general notes
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3	Sidelite panel details
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7	Vertical cross sections
8	Vertical cross sections
9	Fin horizontal and vertical cross sections
10	Buck anchoring
11	Frame anchoring
12	Glazing details
13	Components
14	Bill of materials



SWING	MAX O.A FIN DIMENSION	MAX O.A. FRAME DIMENSION	MAX DOOR D.L.O. DIMENSION	MAX SIDELITE D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
						POSITIVE	NEGATIVE
OUTSWING	203.5" X 121.25"	201.0" X 120.0"	29.0" X 108.0"	47.0" X 108.0"	G1, G2, G3, G4	+55.0*	-55.0*
INSWING	203.5" X 121.25"	201.0" X 120.0"	29.0" X 108.0"	47.0" X 108.0"	G1, G2, G3, G4	+55.0*	-65.0*

\*Requires welded shoot bolts for Design Pressure > 50 PSF



August 11, 2020  
 Documents Prepared By:  
 Lyndon F. Schmidt  
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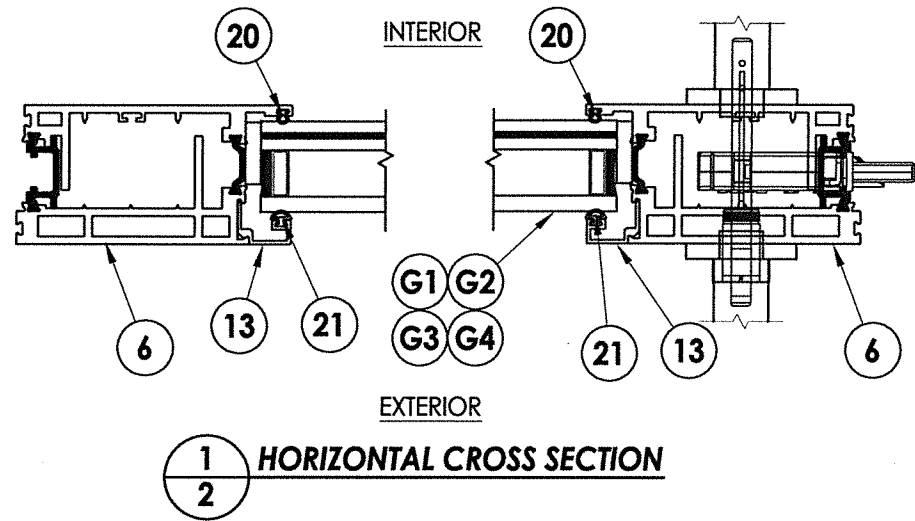
*RW*  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT: FLEETWOOD WINDOWS AND DOORS  
 PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

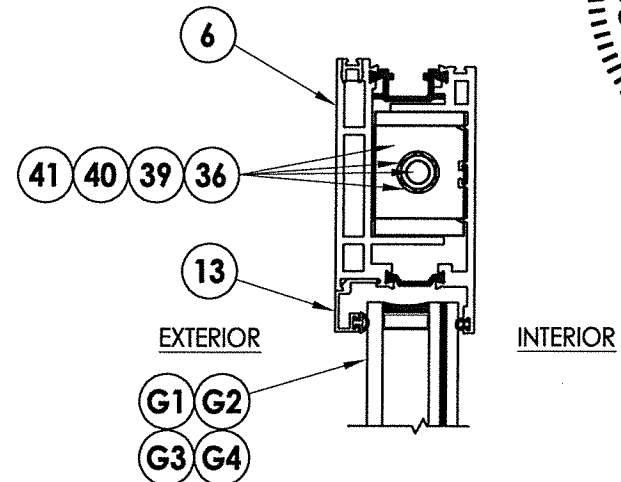
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2	08/07/17	UPDATE TO 6TH ED. (2017) FBC
1	11/2/15	REVISE DESIGN PRESSURES

DATE: 7/29/15  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-17954.5  
 SHEET 1 OF 14

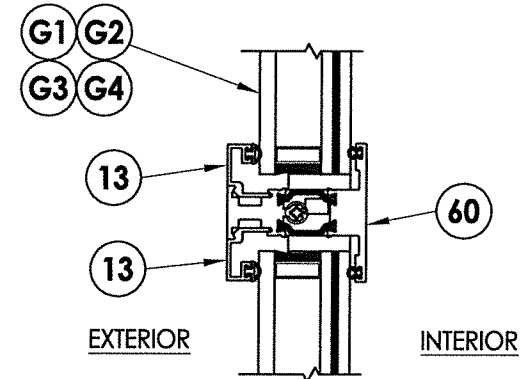
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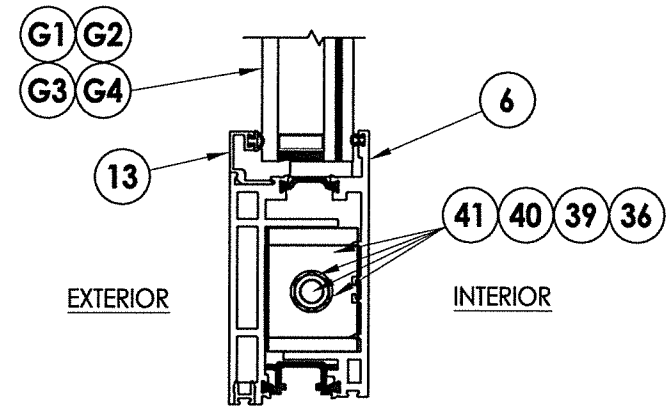
1 HORIZONTAL CROSS SECTION  
2



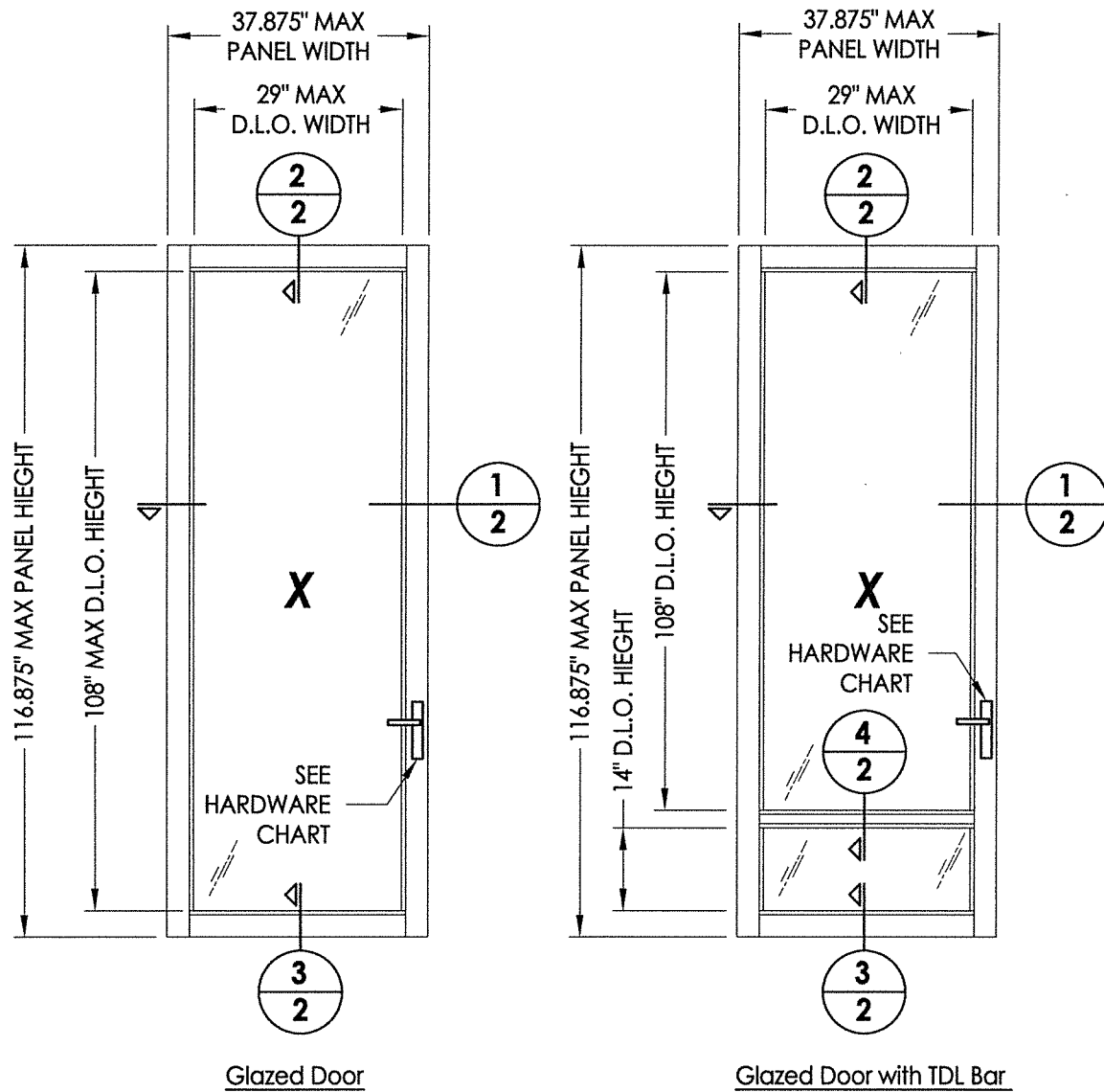
2 VERTICAL CROSS SECTION  
2



4 VERTICAL CROSS SECTION  
2



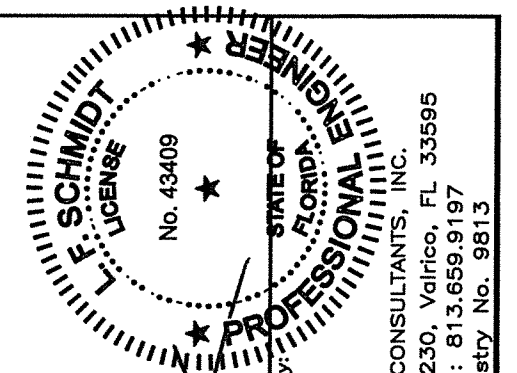
3 VERTICAL CROSS SECTION  
2



Glazed Door

Glazed Door with TDL Bar

HARDWARE TABLE	
MANUFACTURER	MODEL
TRUTH	MULTI-POINT LOCK: 5 POINT LOCK

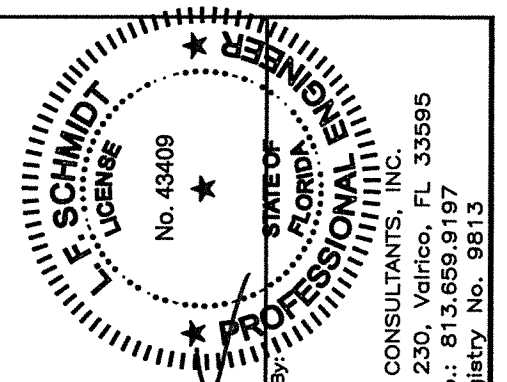
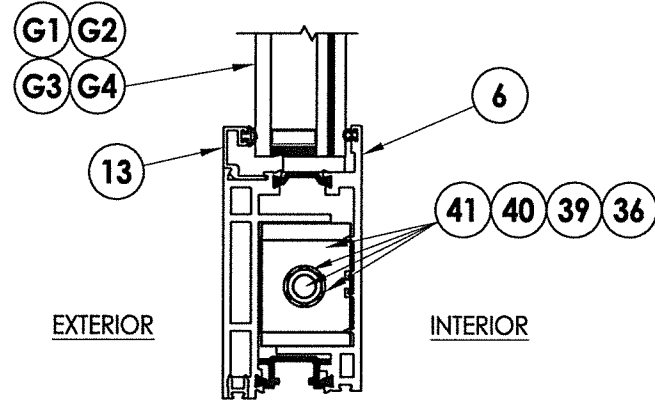
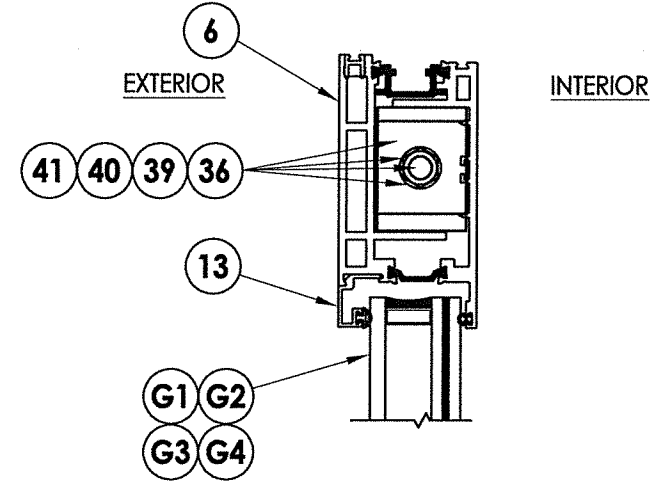
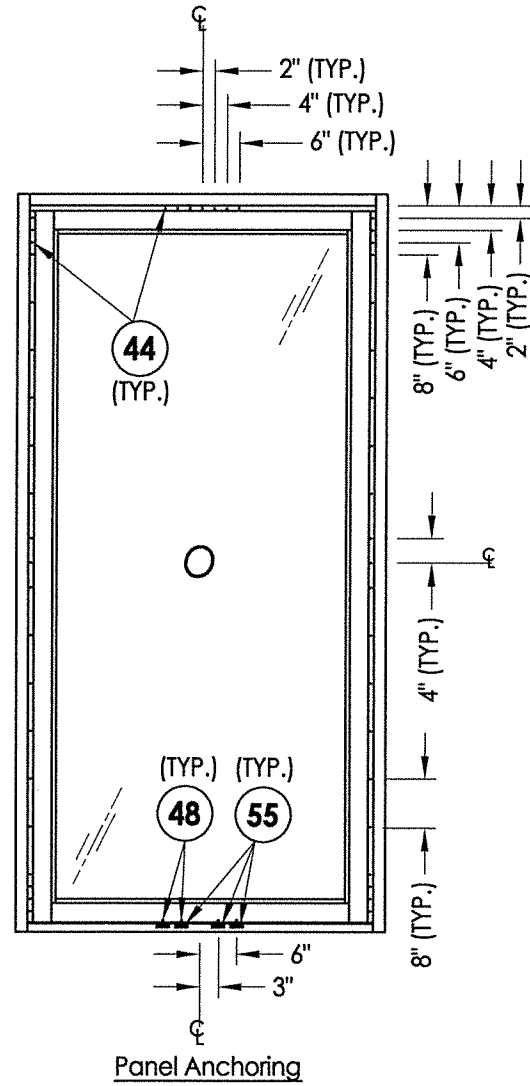
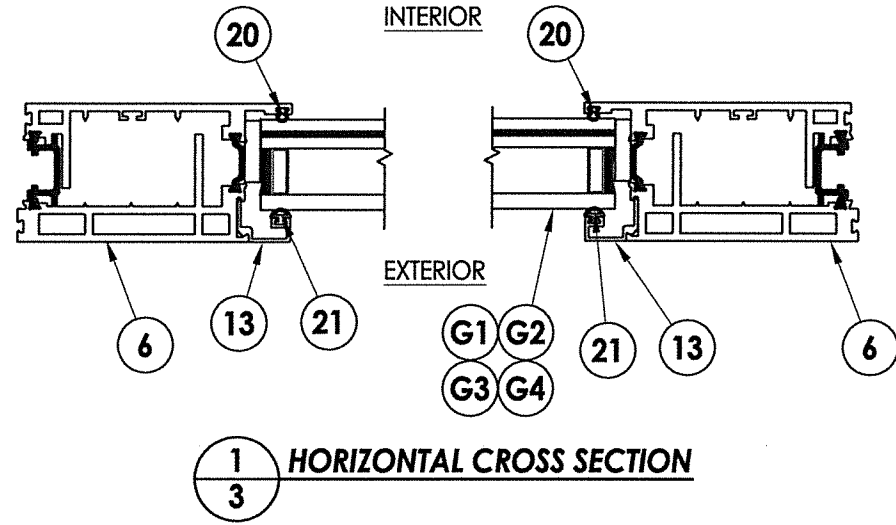
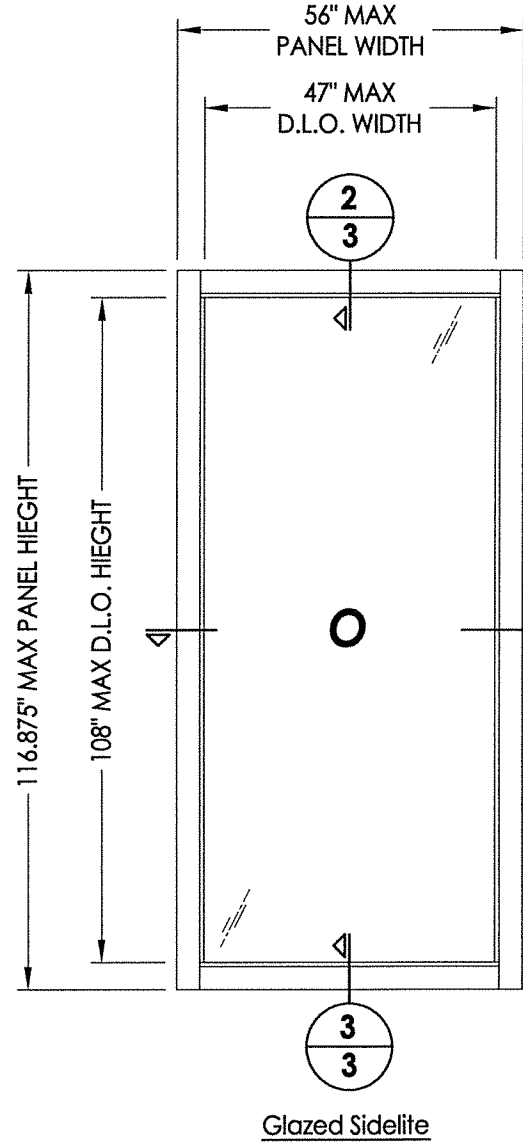


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 Documents Prepared By:  
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 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT:		REVISIONS	
FLEETWOOD WINDOWS AND DOORS		NO.	DATE
3	8/11/20 UPDATE TO 7th ED. (2020) FBC	JK	
2	08/07/17 UPDATE TO 6TH ED. (2017) FBC	LFS	
1	11/2/15 REVISE DESIGN PRESSURES	JK	
		BY	

DATE: 7/29/15  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-17954.5  
 SHEET 2 OF 14

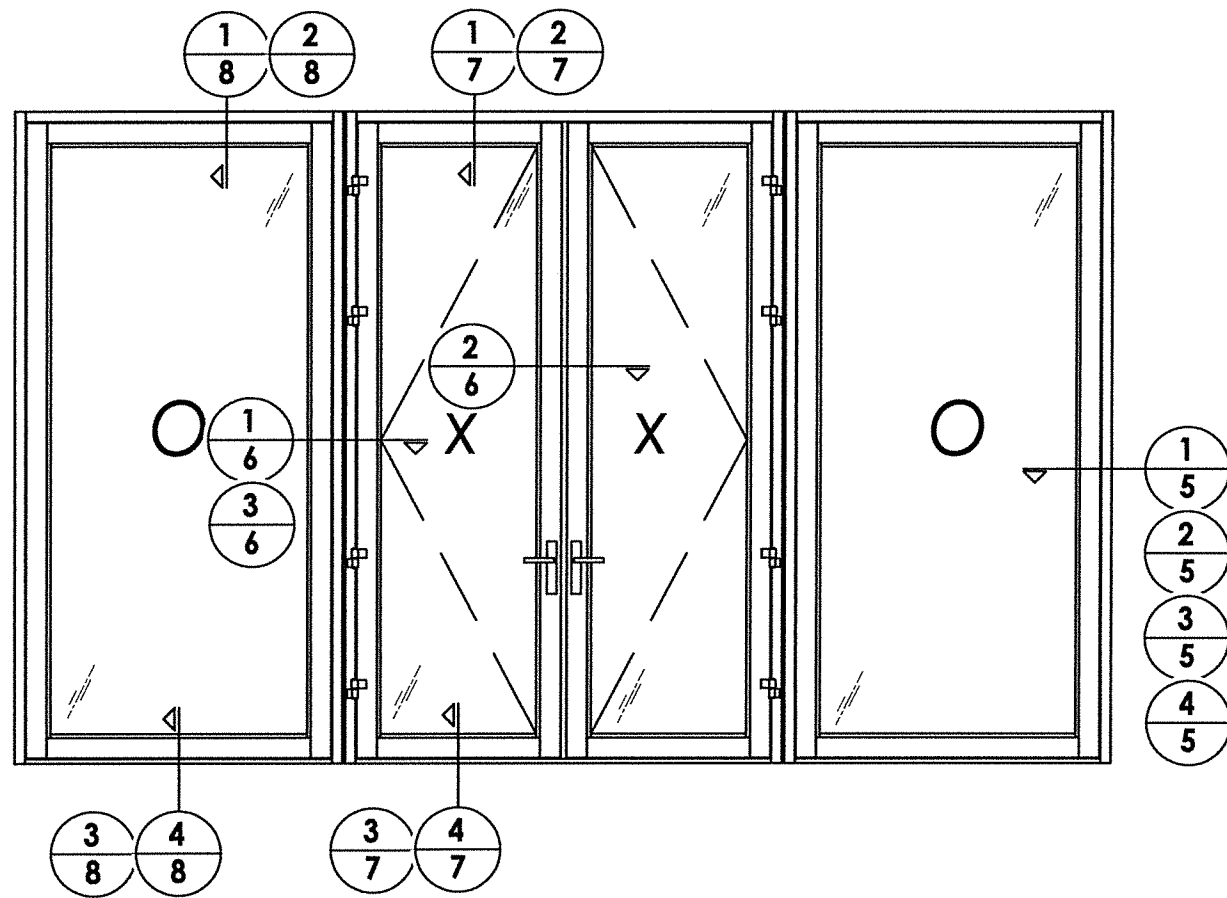
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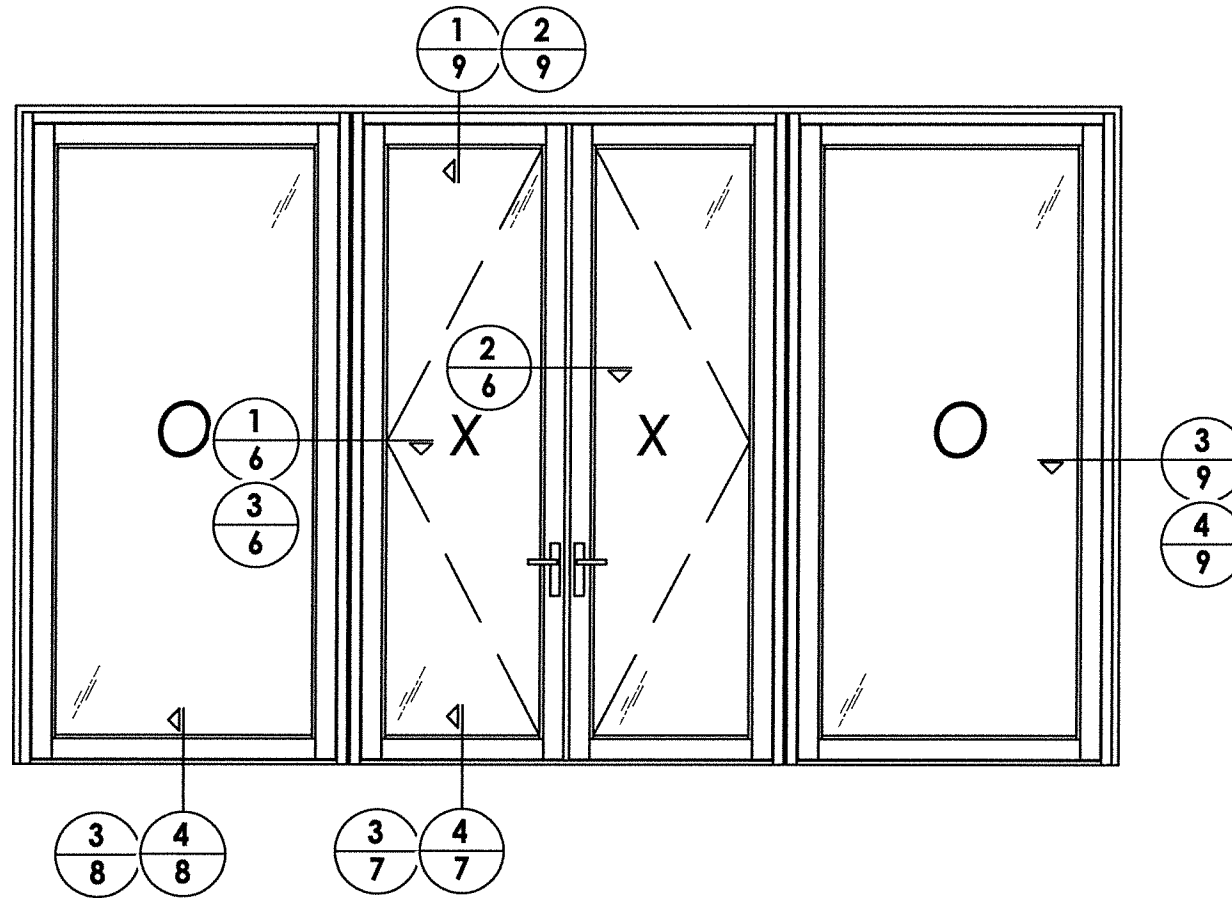
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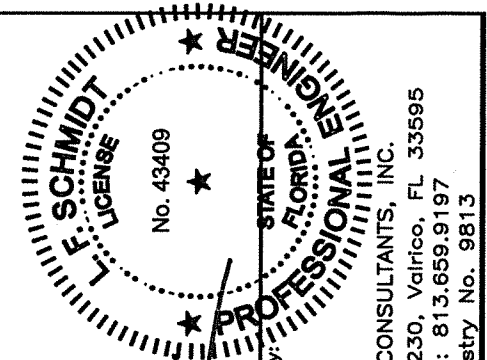
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2	08/07/17	LFS	UPDATE TO 6TH ED. (2017) FBC
1	11/2/15	JK	REVISE DESIGN PRESSURES
DATE			
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SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-17954.5		
SHEET	3	OF	14



FRAME MOUNT



FIN MOUNT



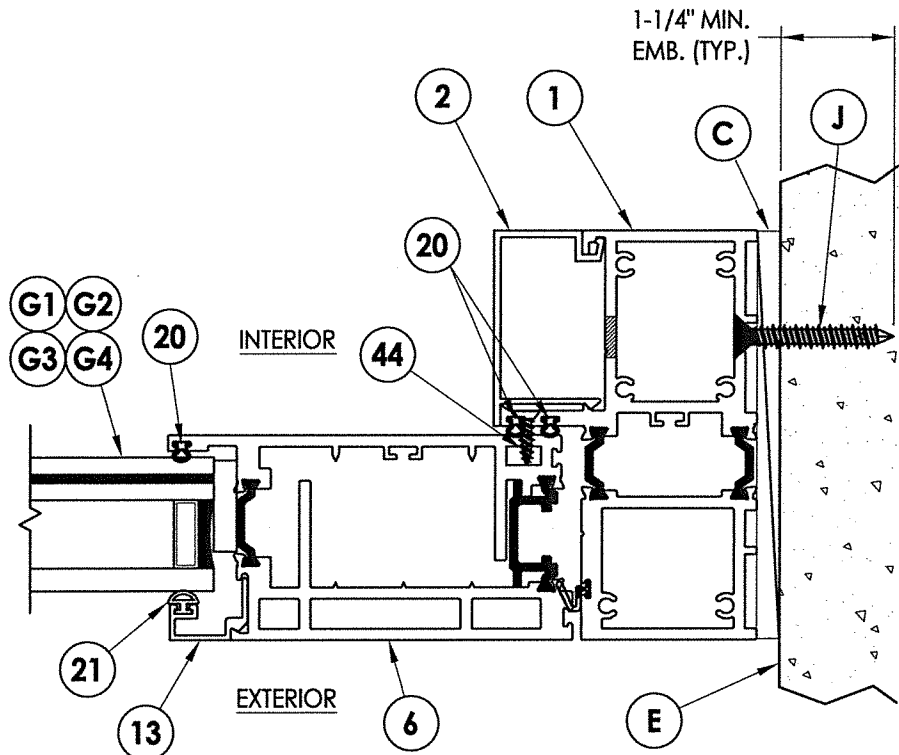
*LFS*

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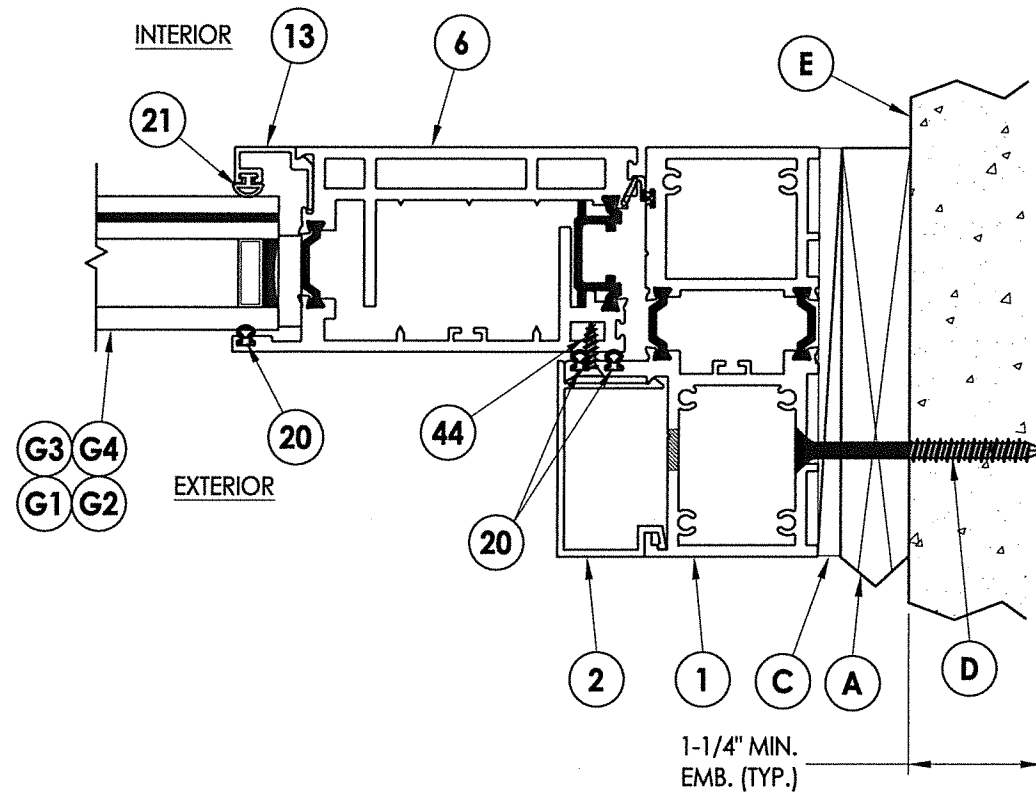
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 P.O. Box 230, Vairico, FL 33595  
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PRODUCT:		FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:		ELEVATIONS	
NO.	DATE	REVISIONS	BY
3	8/11/20	UPDATE TO 7th ED. (2020) FBC	DAC
2	08/07/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	11/2/15	REVISE DESIGN PRESSURES	JK

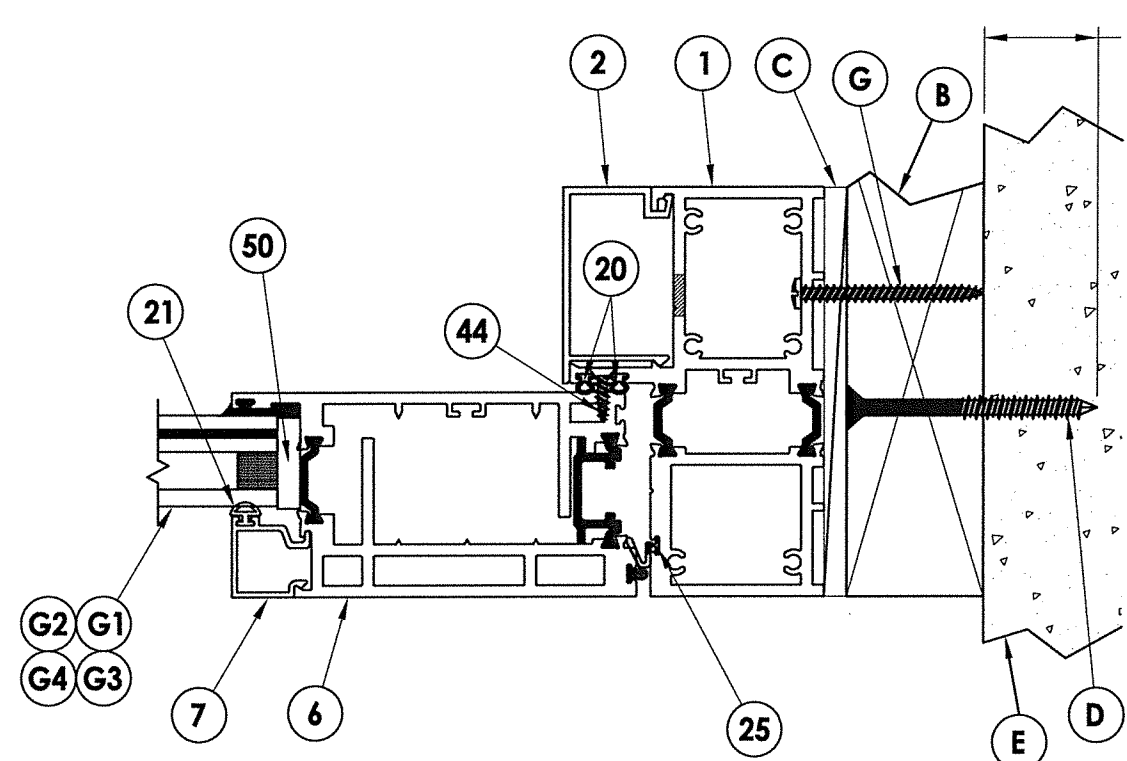
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 CHK. BY: LFS  
 DRAWING NO.: FL-17954.5  
 SHEET 4 OF 14



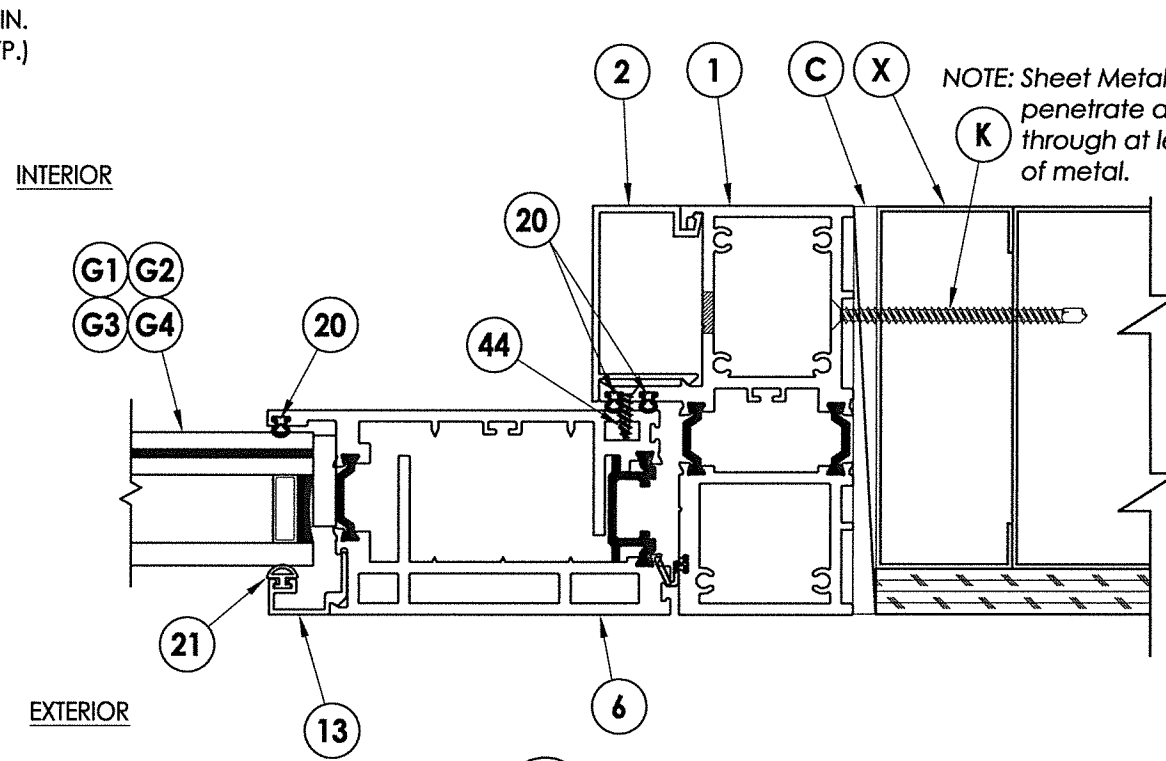
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**5** Direct to Masonry  
 Outswing Shown (Inswing Similar)



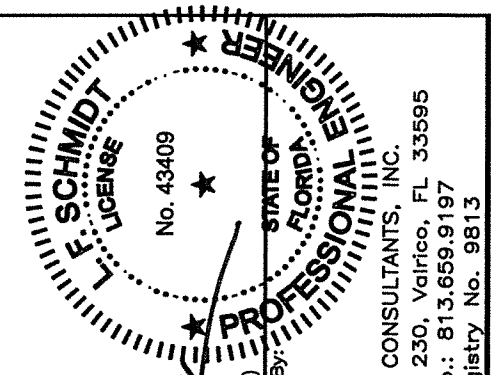
**2** **HORIZONTAL CROSS SECTION**  
**5** 1X Buck Construction  
 Inswing Shown (Outswing Similar)



**4** **HORIZONTAL CROSS SECTION**  
**5** 2X Buck Construction  
 Outswing Shown (Inswing Similar)



**3** **HORIZONTAL CROSS SECTION**  
**5** Metal Stud Construction  
 Outswing Shown (Inswing Similar)



*L.F. Schmidt*

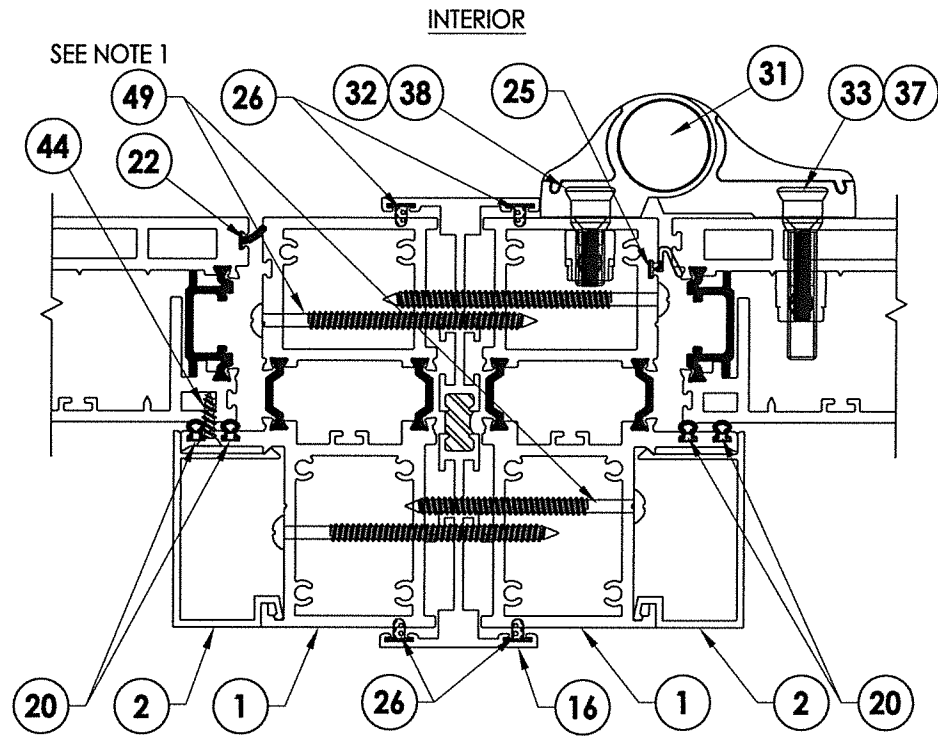
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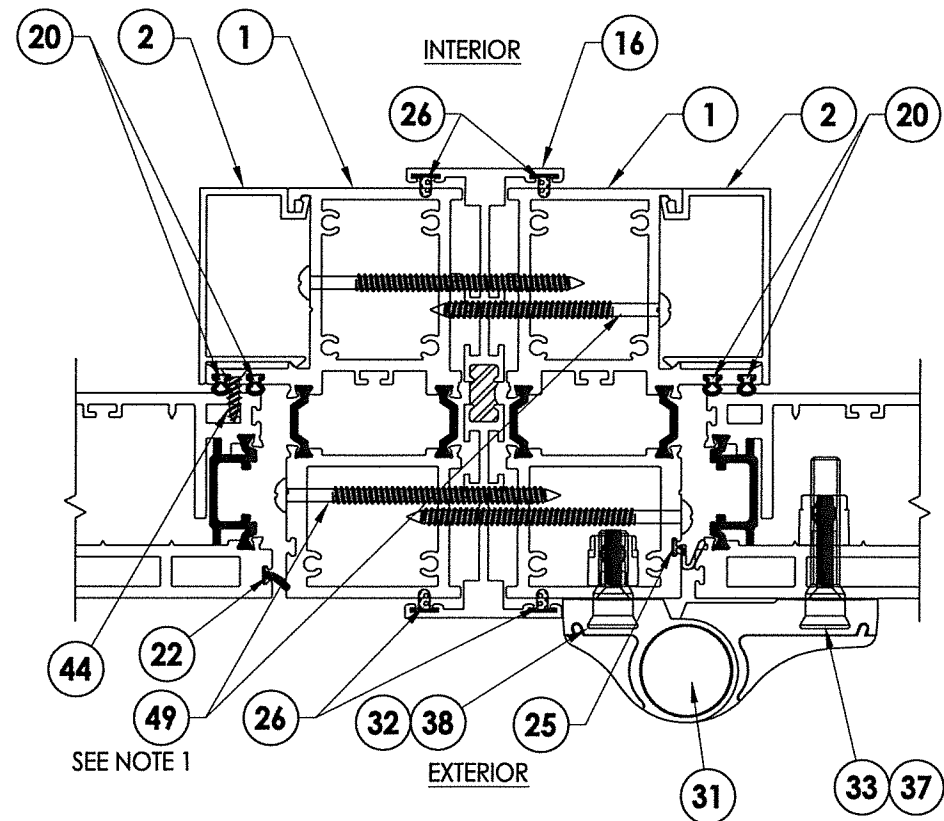
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 PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
3	8/11/20	UPDATE TO 7th ED. (2020) FBC DAC
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1	11/2/15	REVISE DESIGN PRESSURES JK
		BY

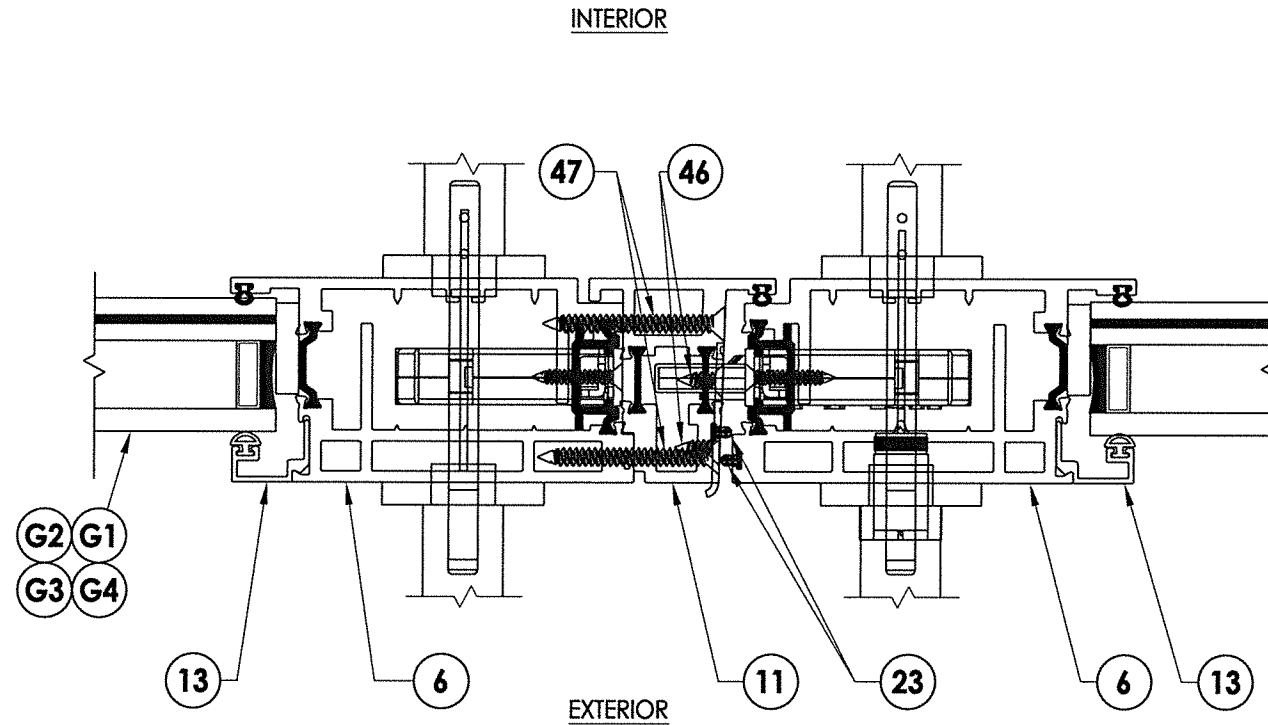
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 SCALE: N.T.S.  
 DWG. BY: JK  
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 DRAWING NO.: FL-17954.5  
 SHEET 5 OF 14



**1 HORIZONTAL CROSS SECTION**  
6 Inswing Shown

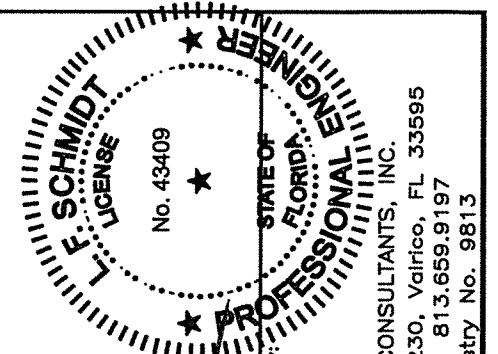


**3 HORIZONTAL CROSS SECTION**  
6 Outswing Shown



**2 HORIZONTAL CROSS SECTION**  
6 Outswing Shown (Inswing Similar)

NOTE:  
1. Item #42 located 6" from each end then 12" on center.

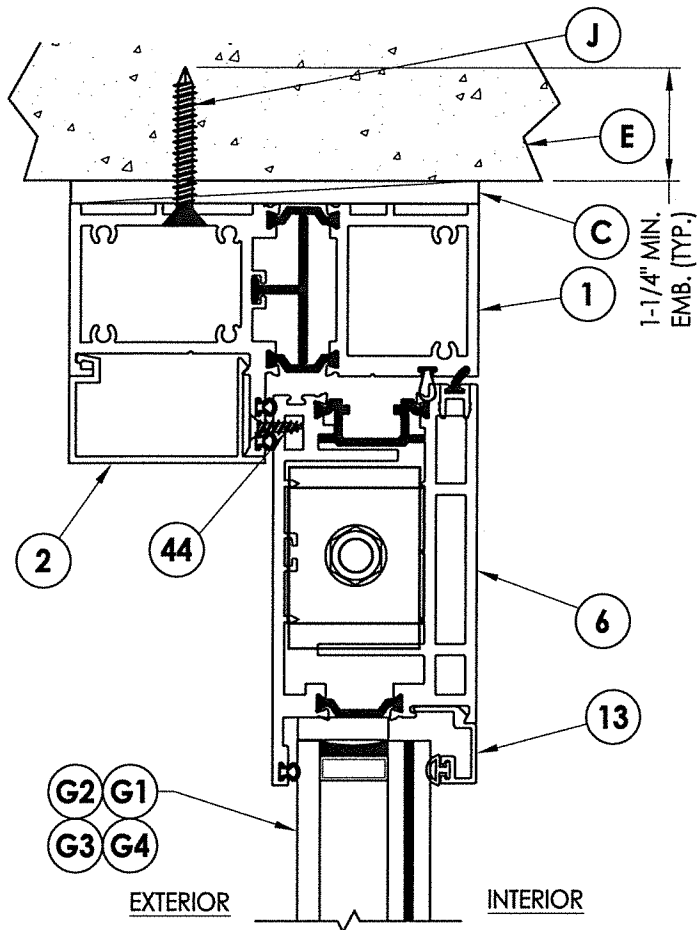


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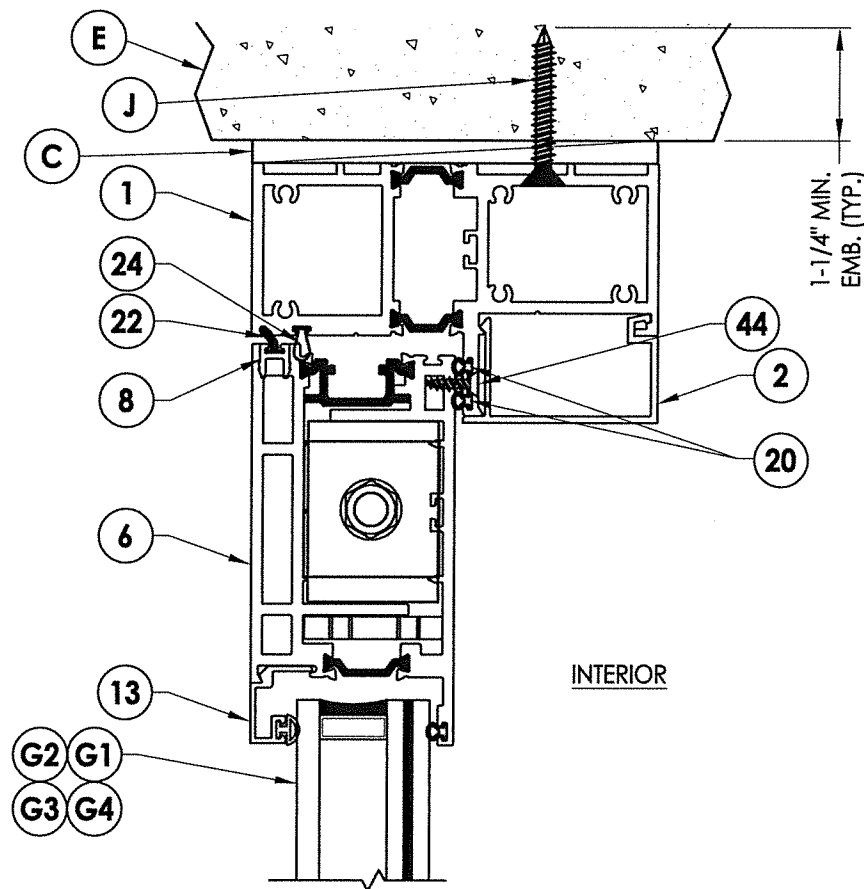
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PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY	REVISIONS
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2	08/07/17	LFS	UPDATE TO 6th ED. (2017) FBC
1	11/2/15	JK	REVISE DESIGN PRESSURES

DATE: 7/29/15  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-17954.5  
SHEET 6 OF 14

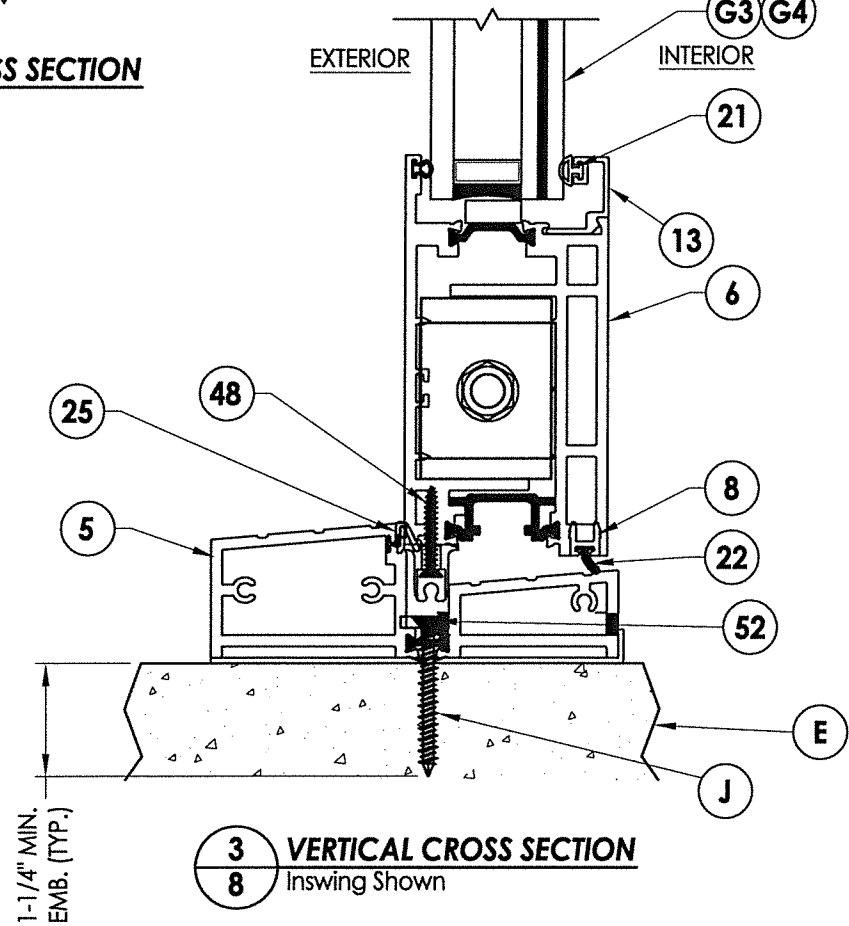




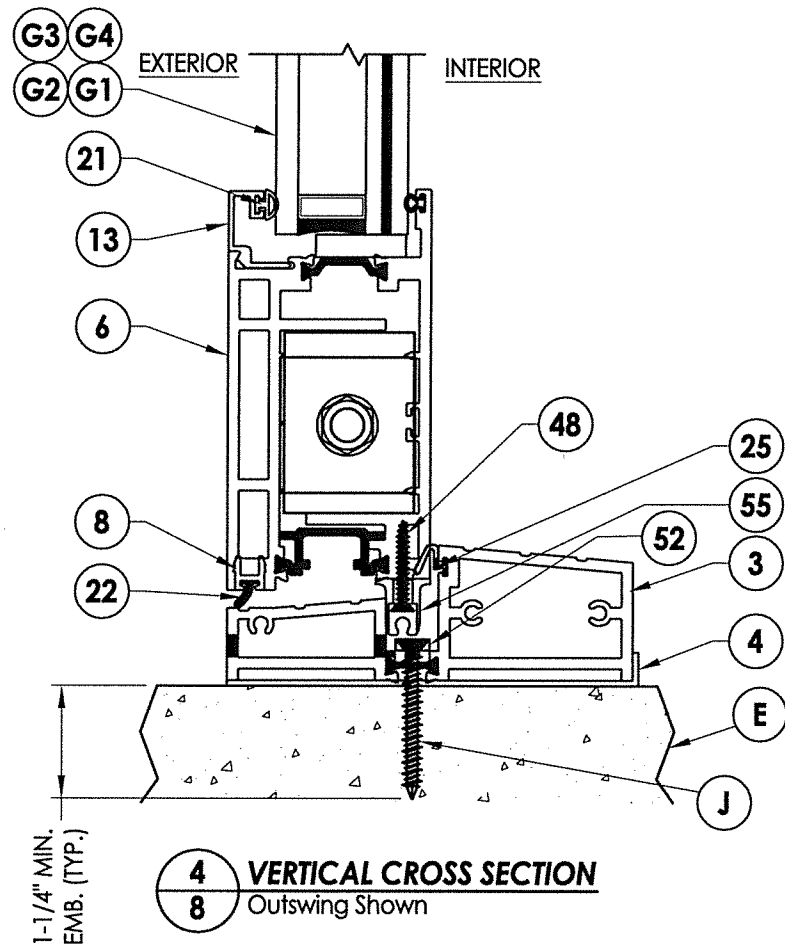
**1 VERTICAL CROSS SECTION**  
8 Inswing Shown



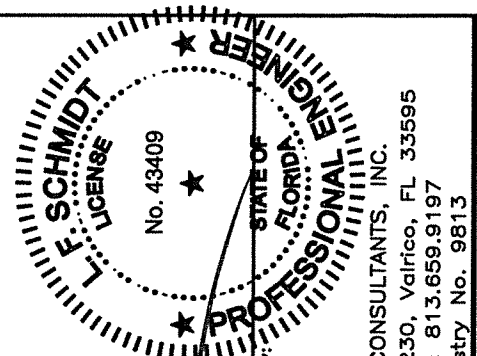
**2 VERTICAL CROSS SECTION**  
8 Outswing Shown



**3 VERTICAL CROSS SECTION**  
8 Inswing Shown



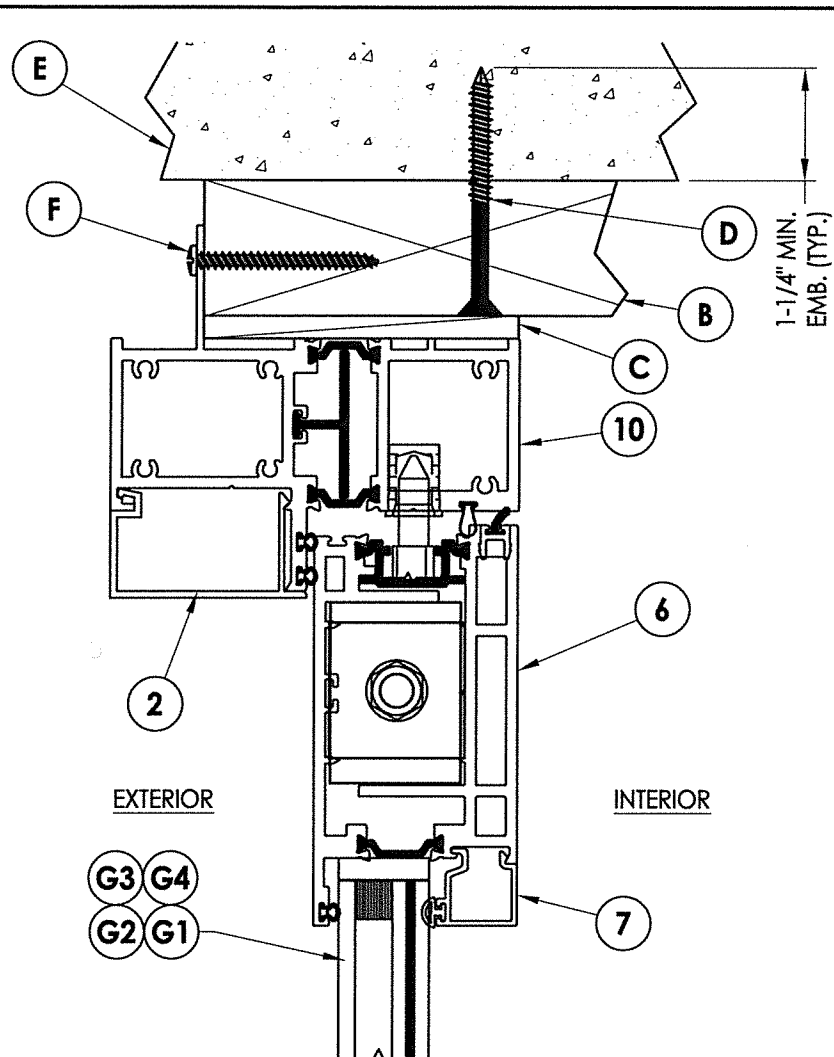
**4 VERTICAL CROSS SECTION**  
8 Outswing Shown



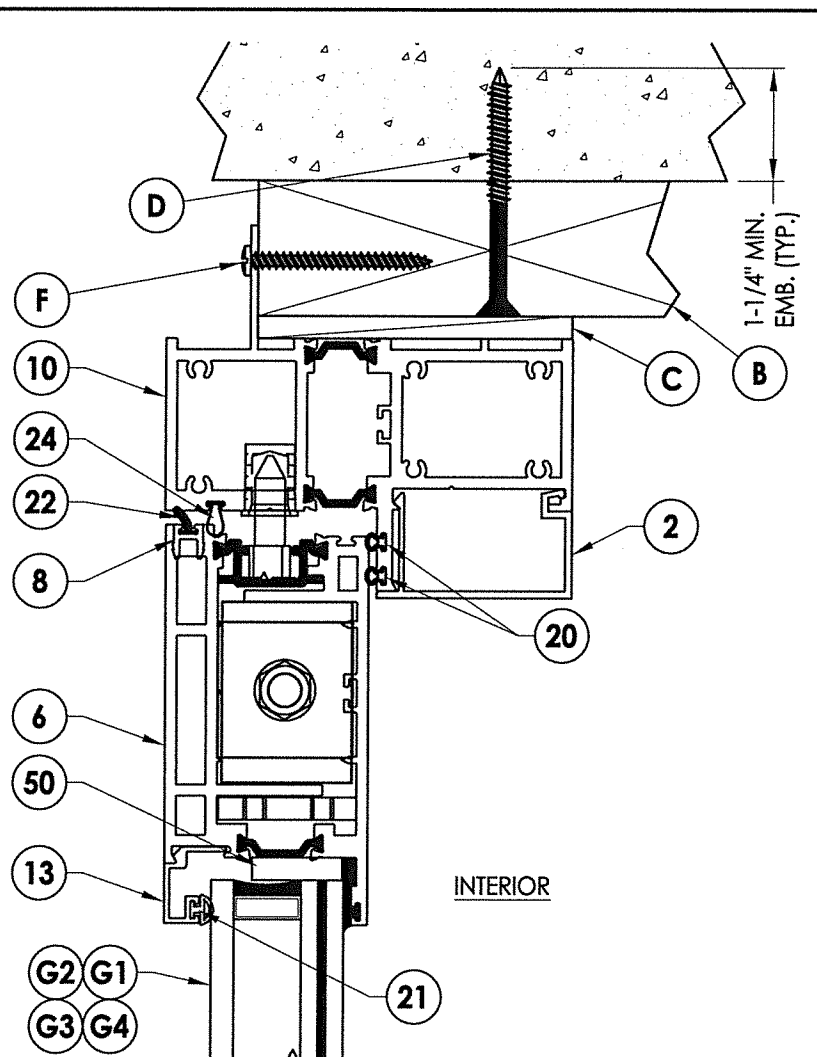
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 P.O. Box 230, Vairico, FL 33595  
 Phone No.: 813.659.9197  
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FLEETWOOD WINDOWS AND DOORS		PART OR ASSEMBLY:	
VERTICAL CROSS SECTIONS		REVISIONS	
NO.	DATE	BY	REVISIONS
3	8/11/20	FBC	UPDATE TO 7th ED. (2020)
2	08/07/17	FBC	UPDATE TO 6th ED. (2017)
1	11/2/15	JK	REVISE DESIGN PRESSURES
DATE: 7/29/15		SCALE: N.T.S.	
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DRAWING NO.: FL-17954.5		SHEET 8 OF 14	

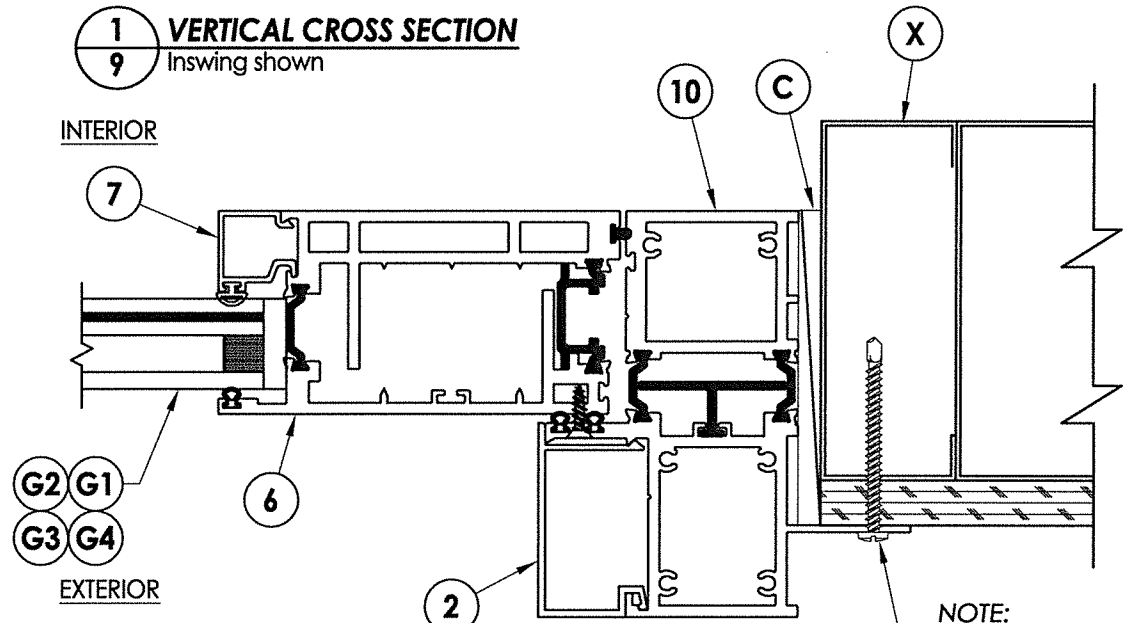




**1 VERTICAL CROSS SECTION**  
9 Inswing shown

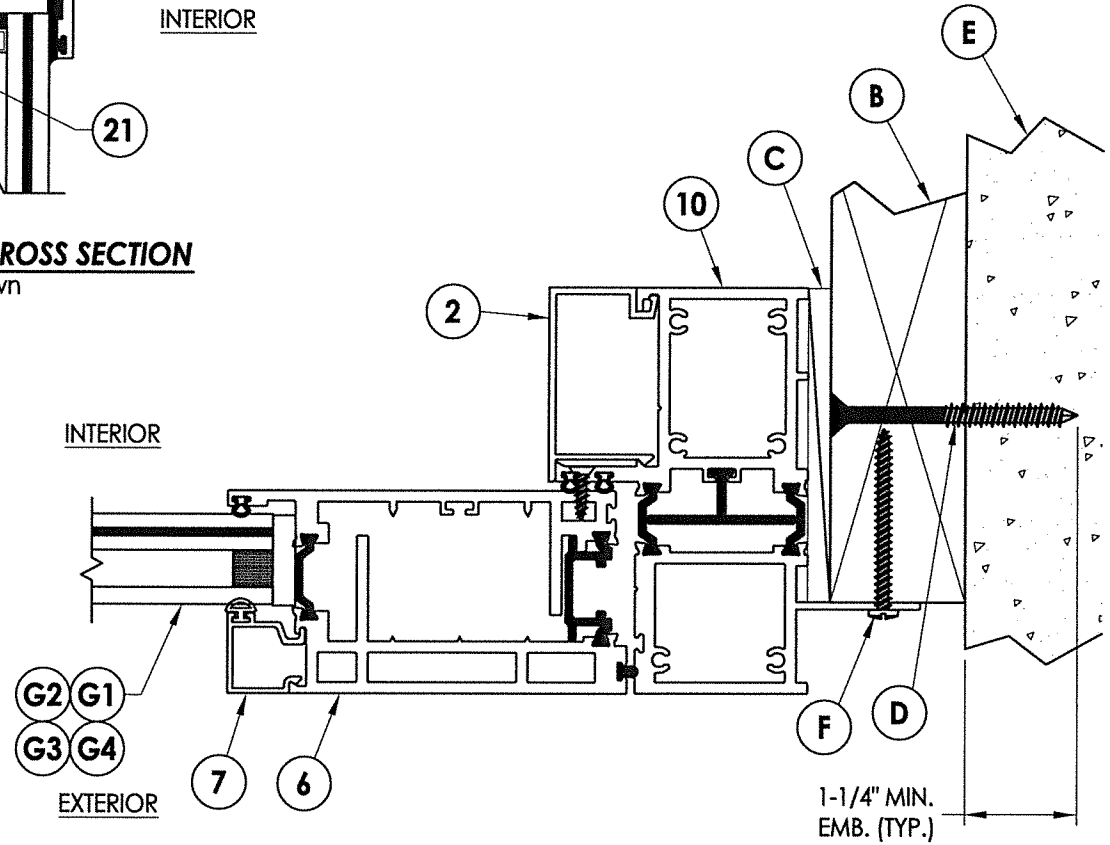


**2 VERTICAL CROSS SECTION**  
9 Outswing shown



**3 HORIZONTAL CROSS SECTION**  
9 Steel Stud Construction  
Inswing shown

NOTE:  
Sheet Metal Screws must  
penetrate a min. of 3 threads  
through metal stud.



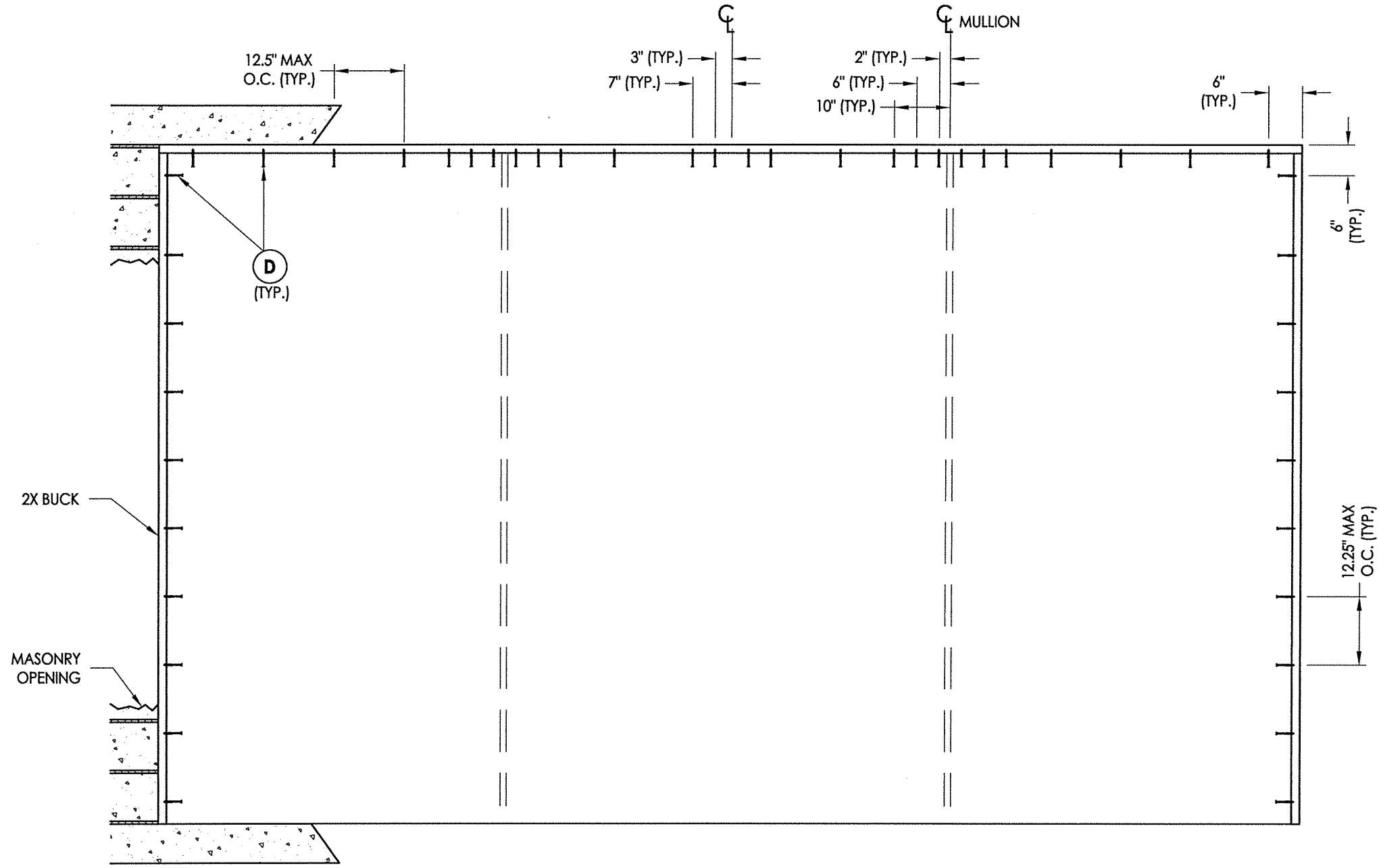
**4 HORIZONTAL CROSS SECTION**  
9 2X Buck Construction  
Outswing shown

**F. SCHMIDT**  
LICENSE  
No. 43409  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

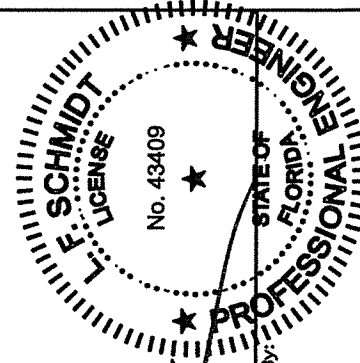
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FLEETWOOD WINDOWS AND DOORS		PART OR ASSEMBLY:	
		FIN HORIZONTAL AND VERTICAL CROSS SECTIONS	
3	8/11/20	UPDATE TO 7th ED. (2020) FBC	DAC
2	08/07/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	11/2/15	REVISE DESIGN PRESSURES	JK
NO.	DATE		REVISIONS
DATE: 7/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-17954.5			
SHEET 9 OF 14			



**2X BUCK ANCHORING**



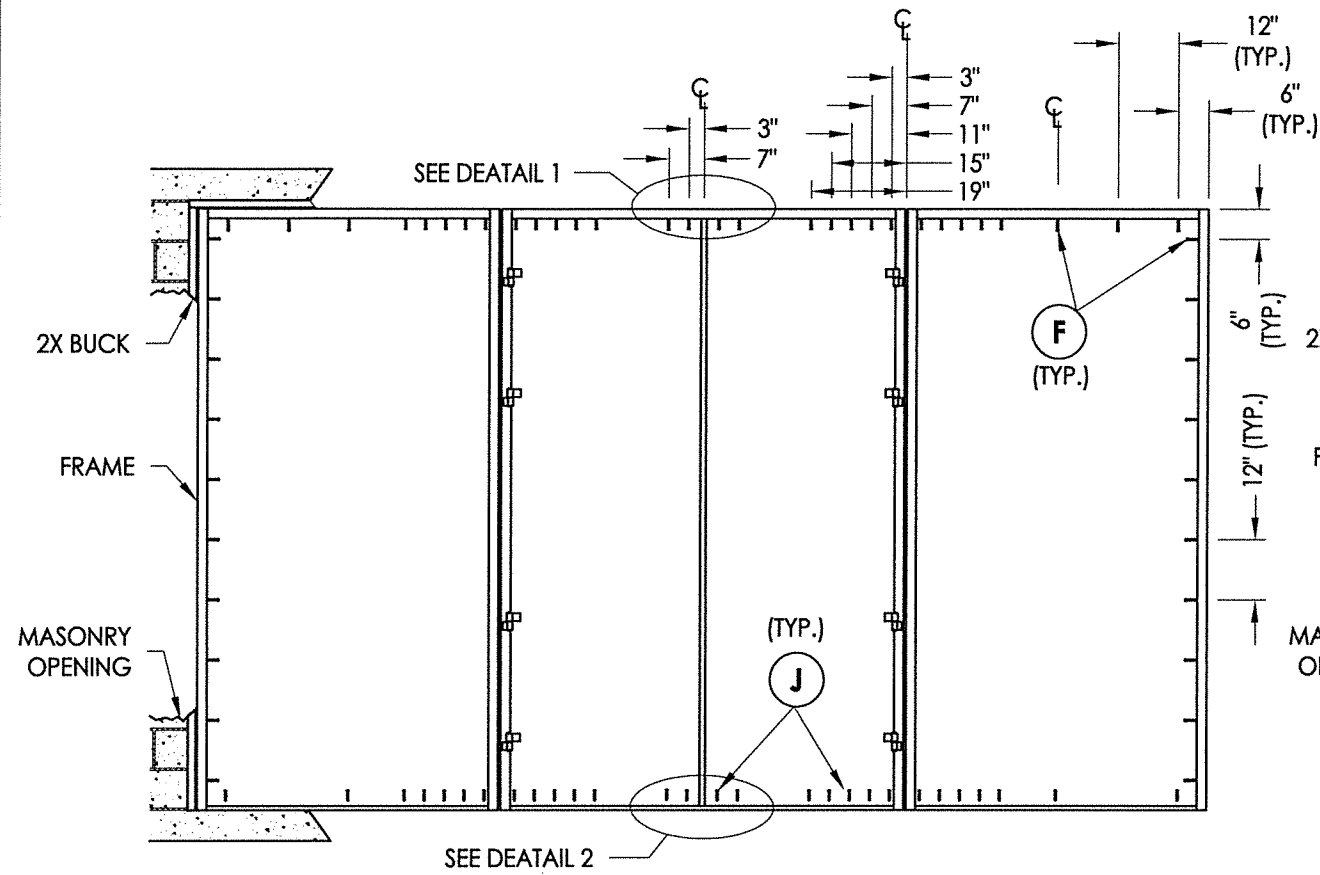
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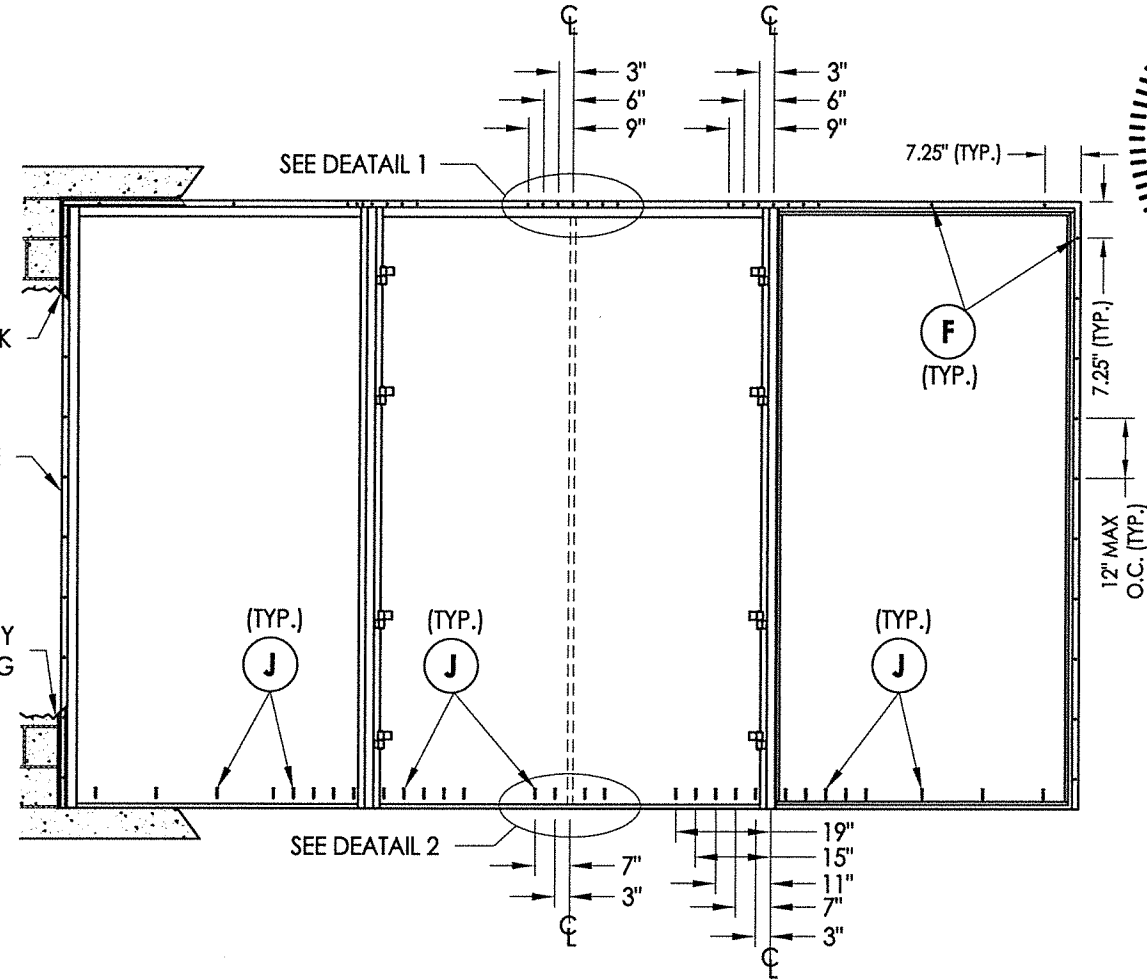
PRODUCT:  
 FLEETWOOD WINDOWS AND DOORS  
 PART OR ASSEMBLY:  
 BUCK ANCHORING

NO.	DATE	REVISIONS
3	8/11/20	UPDATE TO 7TH ED. (2020) FBC DAC
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1	11/2/15	REVISE DESIGN PRESSURES JK
		BY

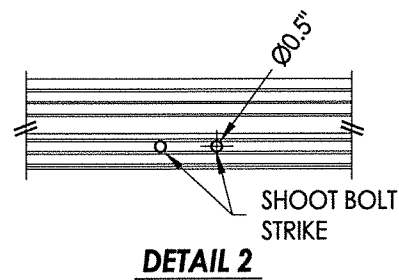
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 DRAWING NO.:  
 FL-17954.5  
 SHEET 10 OF 14



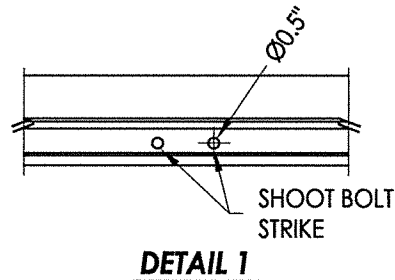
**FRAME ANCHORING**



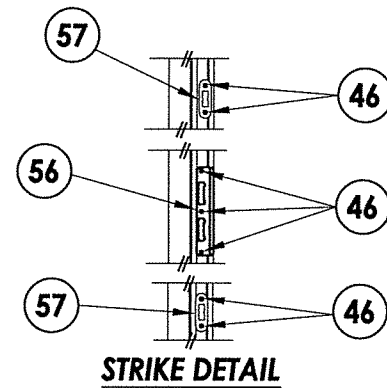
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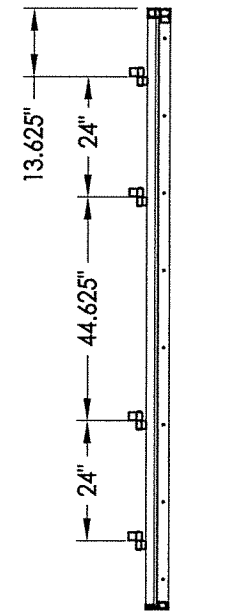
**DETAIL 2**



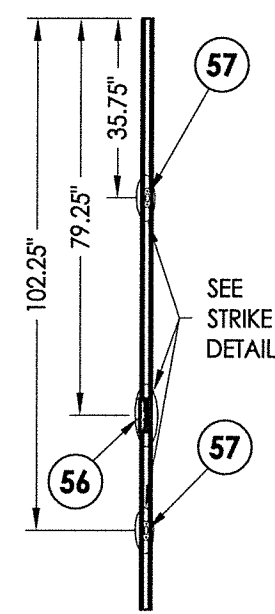
**DETAIL 1**



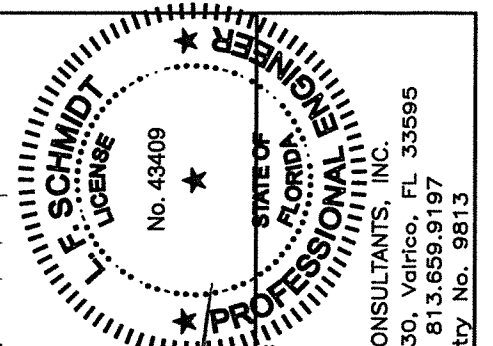
**STRIKE DETAIL**



**HINGE DETAIL**



**ASTRAGAL DETAIL**



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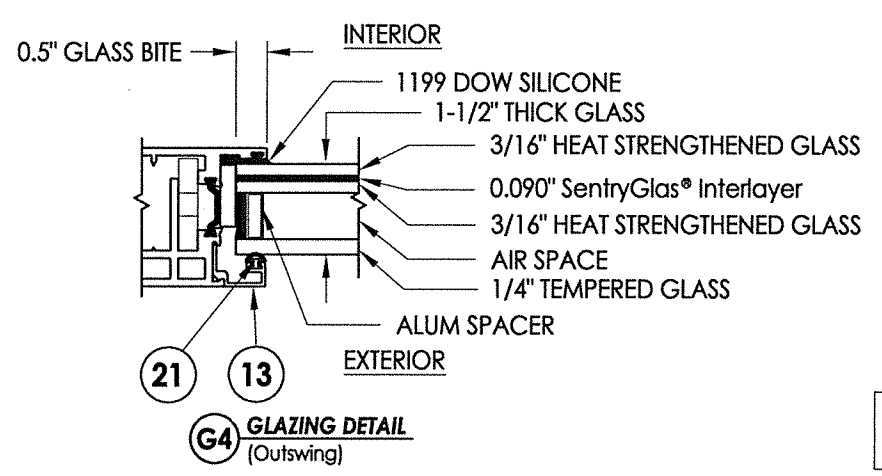
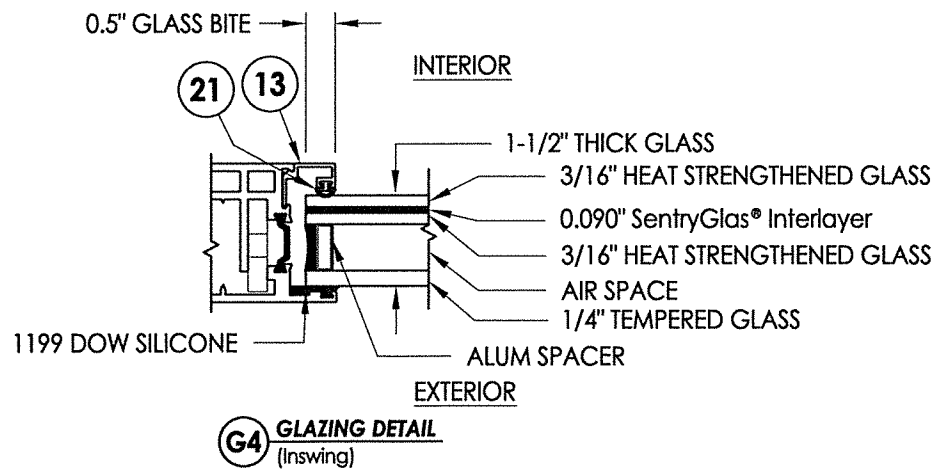
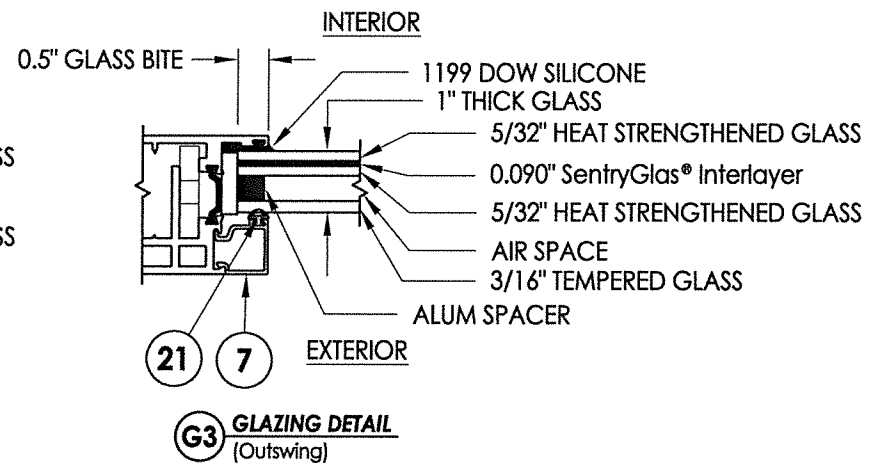
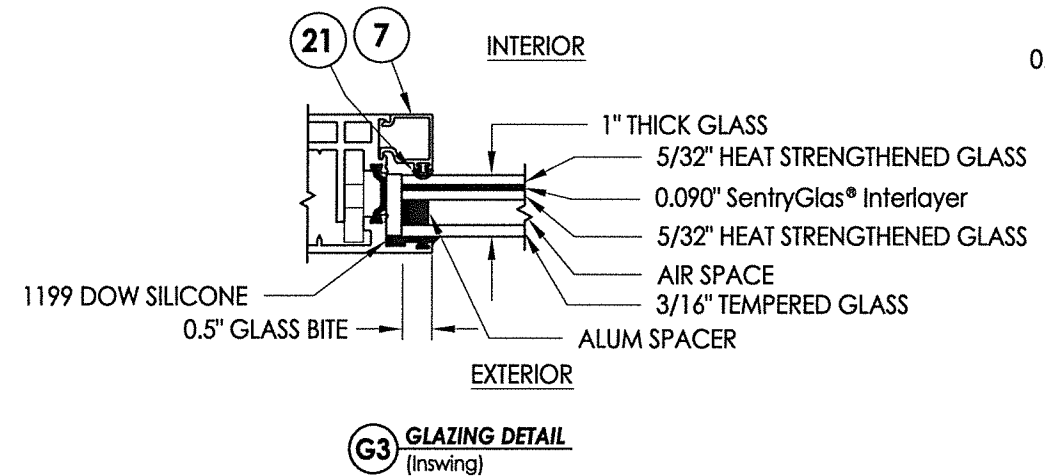
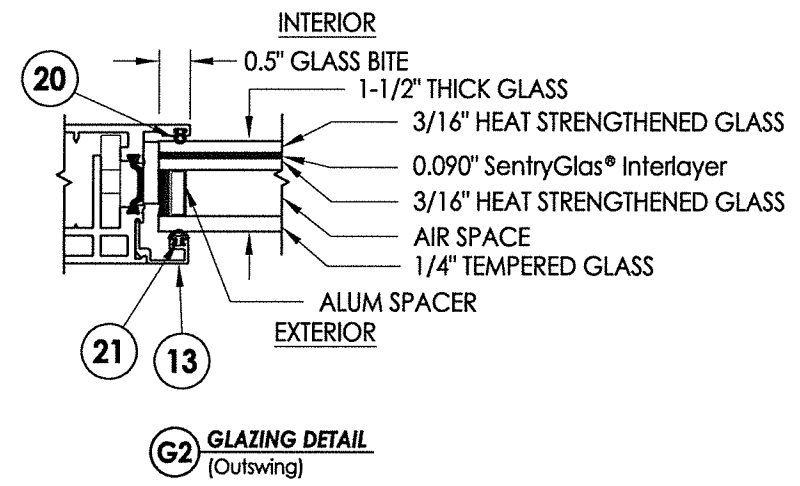
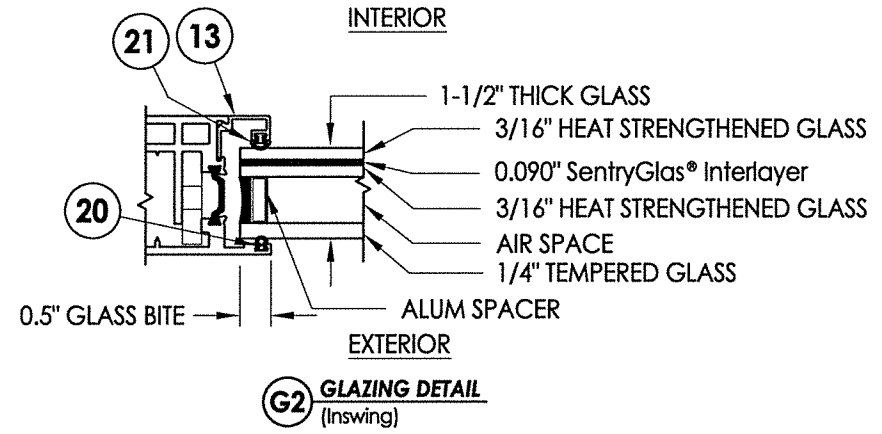
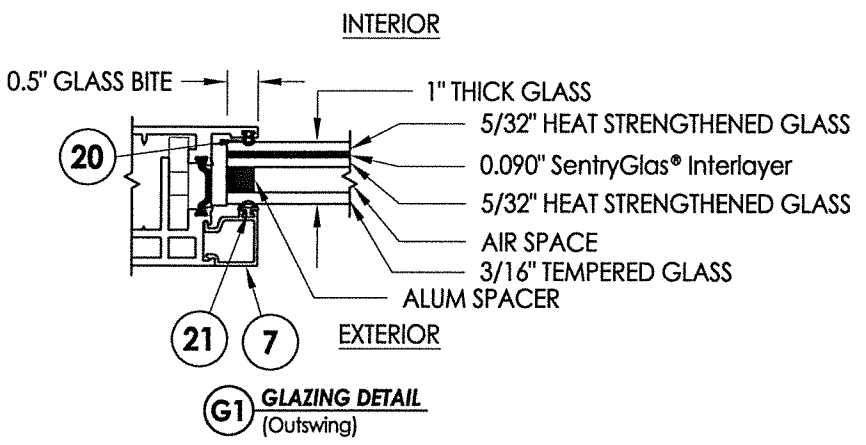
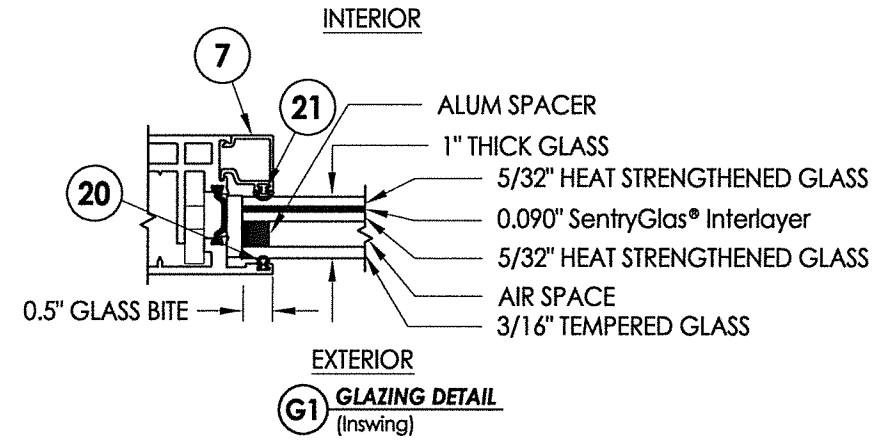
**R.W. BUILDING CONSULTANTS, INC.**  
 P.O. Box 230, Vairico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT:	FLEETWOOD WINDOWS AND DOORS
PART OR ASSEMBLY:	FRAME ANCHORING

NO.	DATE	REVISIONS
3	8/11/20	UPDATE TO 7TH ED. (2020) FBC DAC
2	08/07/17	UPDATE TO 6TH ED. (2017) FBC LFS
1	11/2/15	REVISE DESIGN PRESSURES JK
		BY

DATE:	7/29/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-17954.5
SHEET	11 OF 14

\\dc01\wbc\Clients\Fleetwood PERMANENTVA - Florida Product Approvals\FL-17954 Side Hinged Door\C - Drawings\FL-17954 (2020)\FL-17954.2.5.dwg



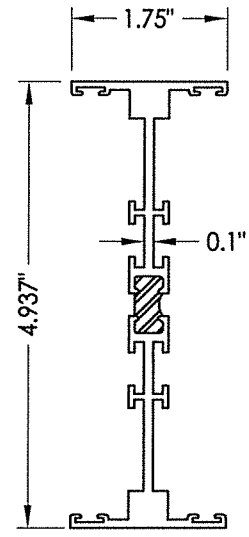
NOTE: GLAZING > 36" WIDE REQUIRES AT LEAST TWO (2) SETTING BLOCKS CONFORMING TO FBC SECTION 2411.3.3.1.

August 11, 2020  
 Documents Prepared By: Lyndon F. Schmidt  
 P.E. No. 43409  
 R.W. BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

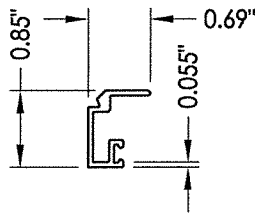
**FLORIDA PROFESSIONAL ENGINEER**  
 F. SCHMIDT  
 LICENSE No. 43409

PRODUCT:		FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:		GLAZING DETAILS	
NO.	DATE	REVISIONS	
3	8/11/20	UPDATE TO 7th ED. (2020) FBC	DAC
2	08/07/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	11/2/15	REVISE DESIGN PRESSURES	JK
			BY
DATE: 7/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-17954.5			
SHEET 12 OF 14			

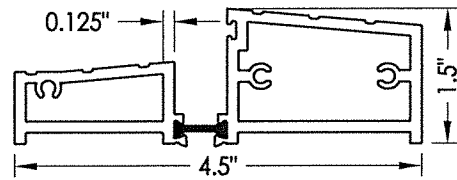
© 2015 R.W. BUILDING CONSULTANTS INC.



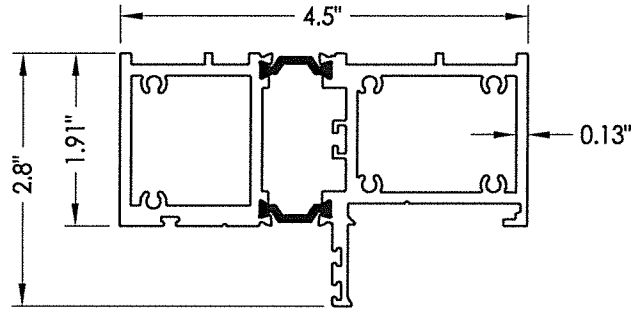
**16 KONA I-MULLION**



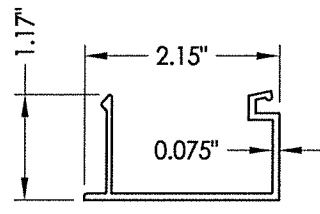
**13 1.5" GLASS STOP**



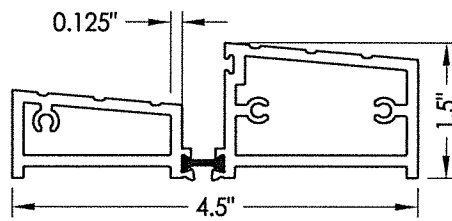
**3 OUTSWING SILL**



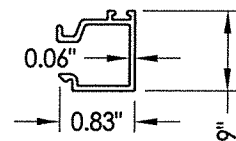
**1 FRAME**



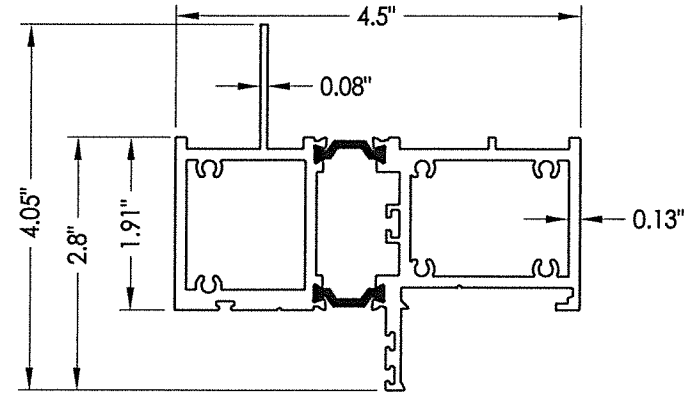
**2 FRAME SNAP-IN**



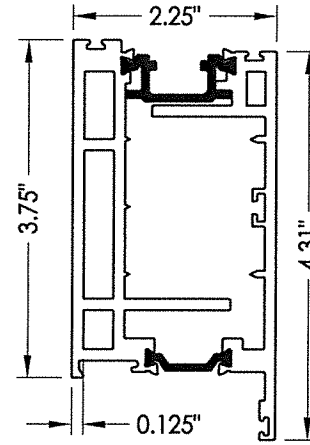
**5 INSWING SILL**



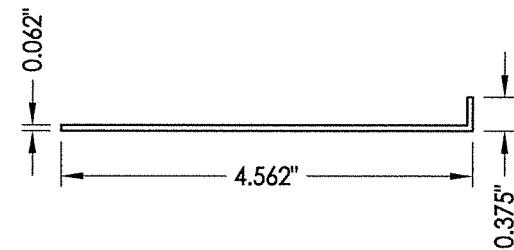
**7 1" GLASS STOP**



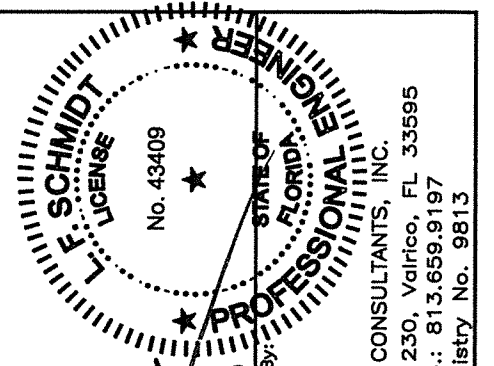
**10 FRAME (FIN)**



**6 SASH**



**4 SILL PAN**

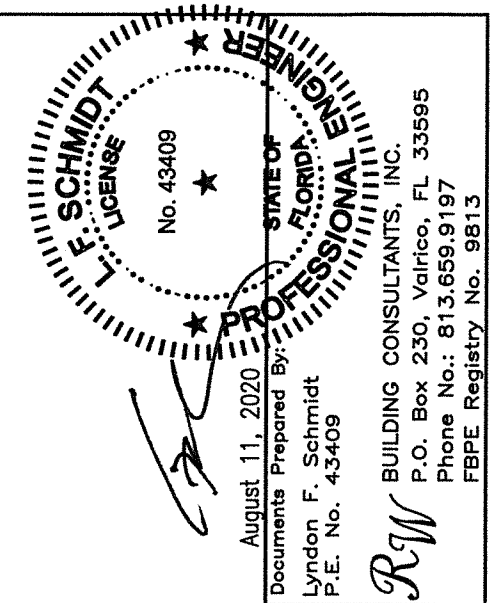


August 11, 2020  
 Documents Prepared By:  
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 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT:		FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:		COMPONENTS	
DATE:	7/29/15	NO.	DATE
SCALE:	N.T.S.	1	11/2/15
DWG. BY:	JK	2	08/07/17
CHK. BY:	LFS	3	18/11/20
DRAWING NO.:	FL-17954.5	REVISIONS	
SHEET	13 OF 14	REVISE DESIGN PRESSURES	

\\dc01\wbc\clients\Fleetwood PERMANENTVA - Florida Product Approvals\FL-17954 Side Hinged Door\C - Drawings\FL 17954 (2020)\FL-17954.2.5.dwg

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL - MANUFACTURER
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 PFH 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 1-3/4" PPH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
G	#10 x 2" PPH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
J	1/4" X 2-1/4" ITW PFH CONCRETE SCREW	STEEL
K	#10 FH SELF-DRILLING SMS	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
1	FRAME	6063-T6 ALUM
2	FRAME SNAP-IN	6063-T6 ALUM
3	OUTSWING SILL	6063-T6 ALUM
4	SILL PAN	6063-T6 ALUM
5	INSWING SILL	6063-T6 ALUM
6	SASH	6063-T6 ALUM
7	1" GLASS STOP	6063-T6 ALUM
8	ATLANTIC SEAL CLIP	6063-T6 ALUM
10	FRAME (FIN)	6063-T6 ALUM
13	1.5" GLASS STOP	6063-T6 ALUM
16	KONA I-MULLION	6063-T6 ALUM
20	BULB VINYL - MINI (EPDM 70 Durometer)	TREMCO, # TX20801E
21	BULB VINYL - LARGE (EPDM 70 Durometer)	TREMCO, # TX19638E
22	FOAM SEAL	EMESBURY, # 32390
24	Q-LON FOAM SEAL	SCHLEGEL CORP., # Q375T190
25	Q-LON FOAM SEAL	SCHLEGEL CORP., # QEZ 376
31	BUTT HINGE	SAVIO
32	BACK UP KIT	SAVIO
33	HINGE BOLT, 8M X 48MM (FOR PANEL)	SAVIO
36	BACK UP PLATE FOR CORNER BLOCK	-
37	MACHINE SCREW NO 10-32, FHP 1.125"	STAINLESS STEEL
38	MACHINE SCREW NO 10-32, FHP .75"	STAINLESS STEEL
39	HEX HEAD CAP SCREW .375-16, 2.250"	STAINLESS STEEL
40	.375-16 SS. HEX NUT	STAINLESS STEEL
41	.375 SPLIT LOCK WASHER	STAINLESS STEEL
46	#10 X 1/2" PFH SMS	STAINLESS STEEL
47	#10 X 2" PFH SMS	STAINLESS STEEL
48	#8 x 1" PFH SMS	STAINLESS STEEL
49	#10 X 2-1/2" PFH SMS	STAINLESS STEEL
50	4" LONG SETTING BLOCK	-
52	ANCHOR BLOCK	6063-T6 ALUM
55	FIXED SILL BLOCK	6063-T6 ALUM
56	LATCH AND DEADBOLT STRIKE PLATE	STAINLESS STEEL
57	STRIKE PLATE	STAINLESS STEEL
60	TDL BAR	6063-T6 ALUM



August 11, 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:  
 FLEETWOOD WINDOWS AND DOORS  
 PART OR ASSEMBLY:  
 BILL OF MATERIALS

NO.	DATE	REVISIONS
3	8/11/20	UPDATE TO 7th ED. (2020) FBC
2	08/07/17	UPDATE TO 6TH ED. (2017) FBC
1	11/2/15	REVISE DESIGN PRESSURES
		BY

DATE: 7/29/15  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-17954.5  
 SHEET 14 OF 14

**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"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

**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.