

smartglass

55 Southeast 2nd Avenue, Suite 211
Delray Beach, Florida 33444

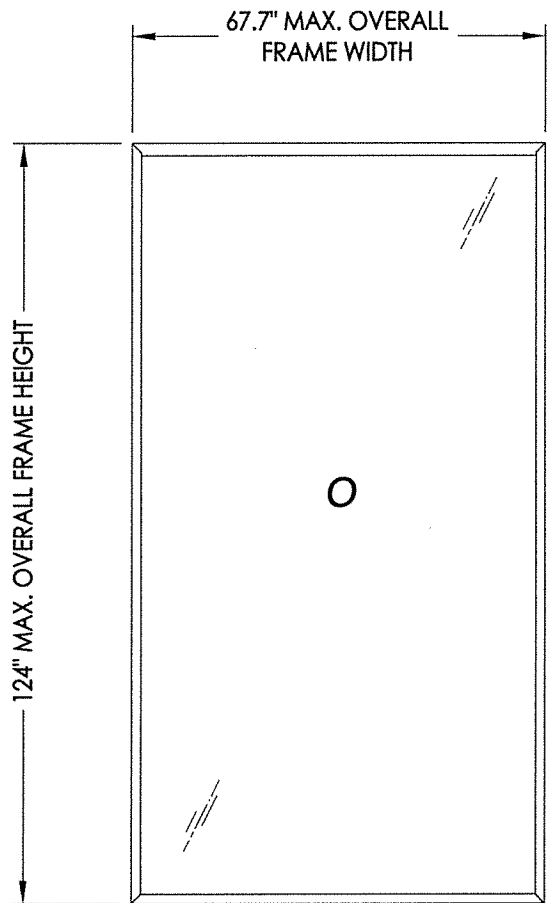
"KELLER minimal windows"

Insulated Fixed Window
"IMPACT"

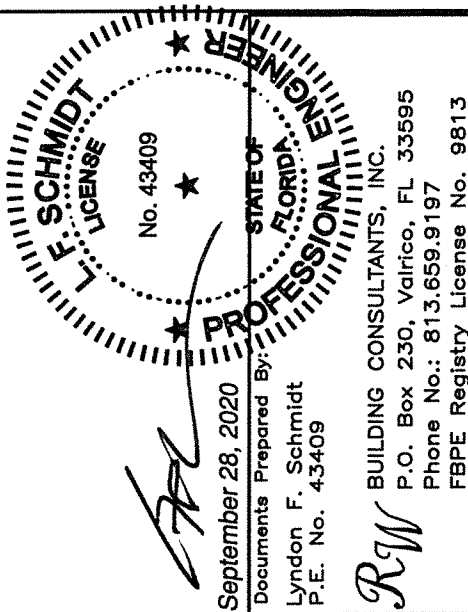
GENERAL NOTES

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. Gaskets and setting blocks shall comply with FBC Section 2411.3.4.
9. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

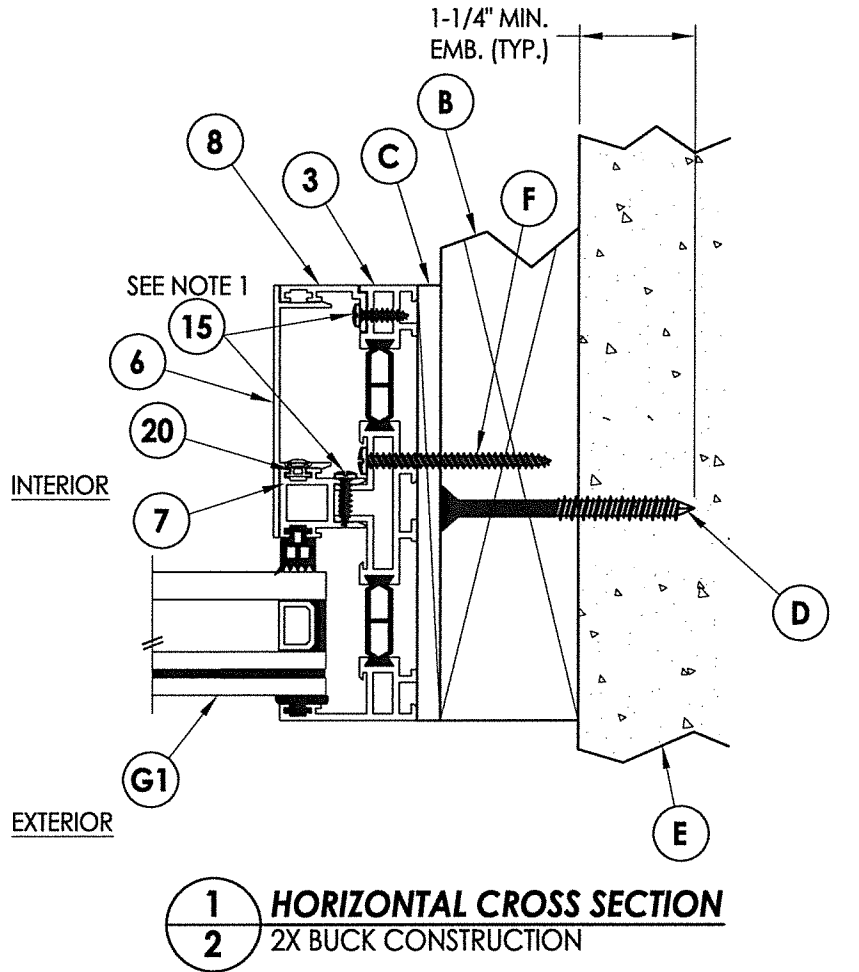
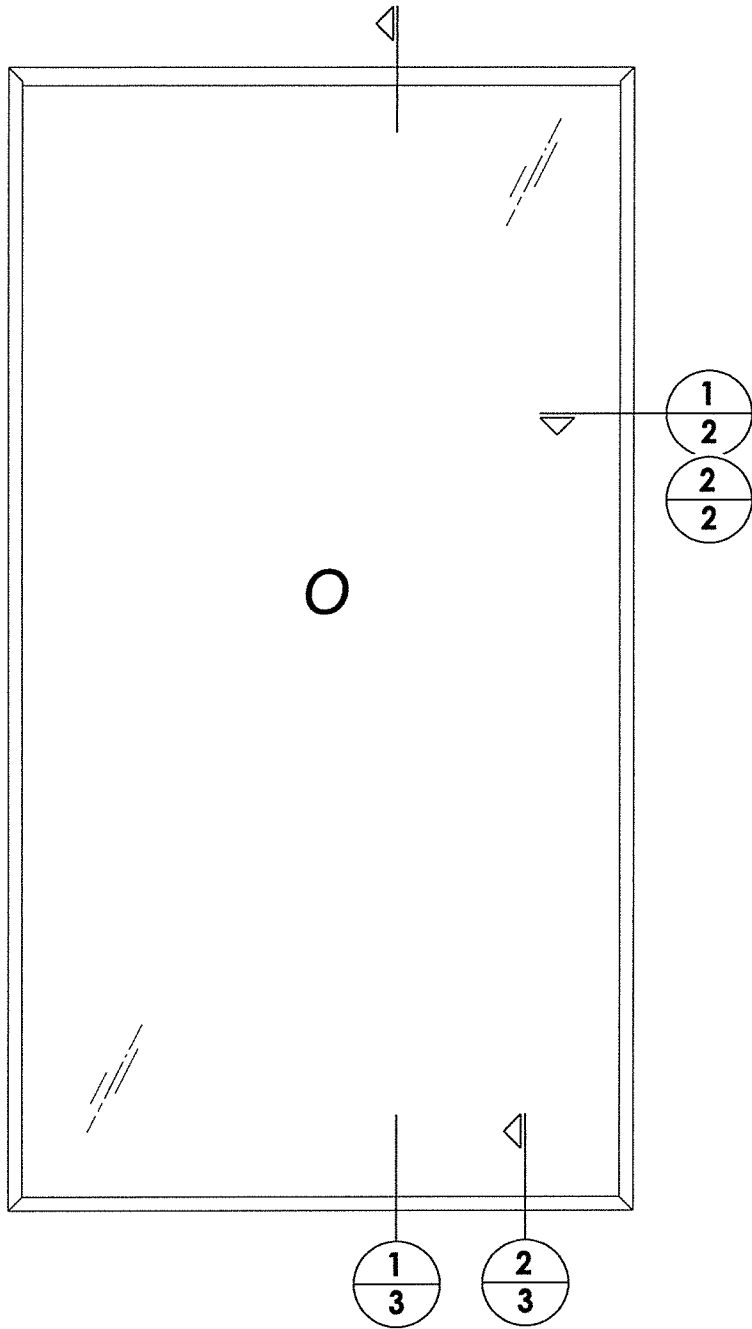
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck anchoring
5	Frame anchoring
6	Components
7	Bill of materials & glazing details



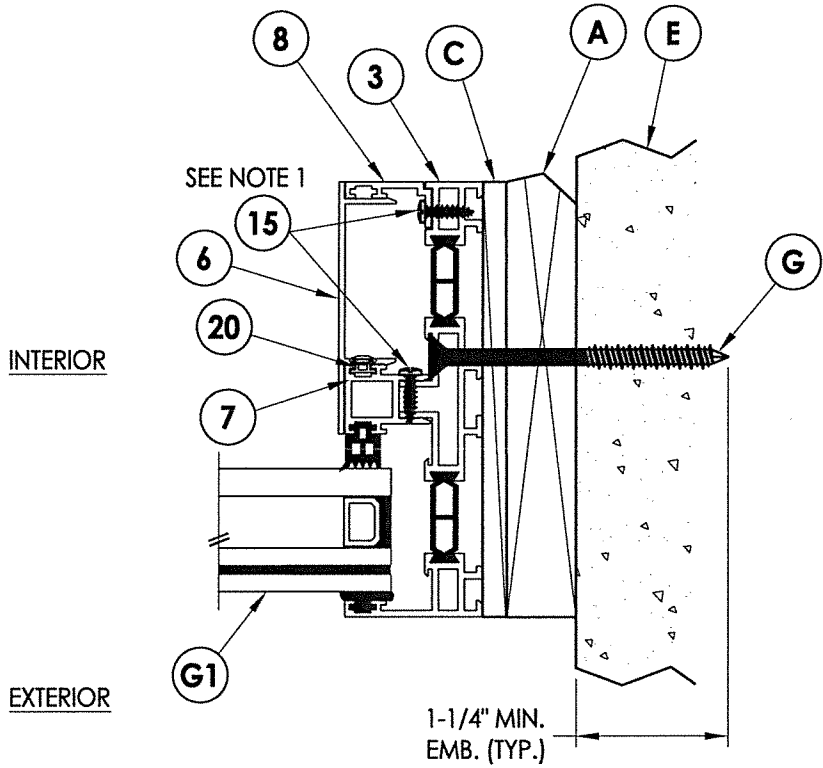
OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
67.7" X 124"	64.7" X 120.5"	G1	+60.0	-60.0



DATE: 9/26/19										PRODUCT: SMARTGLASS	
SCALE: N.T.S.										PART OR ASSEMBLY:	
DWG. BY: TRJ										TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
CHK. BY: LFS										BY	
DRAWING NO.: FL-30470.1										REVISIONS	
SHEET 1 OF 7											

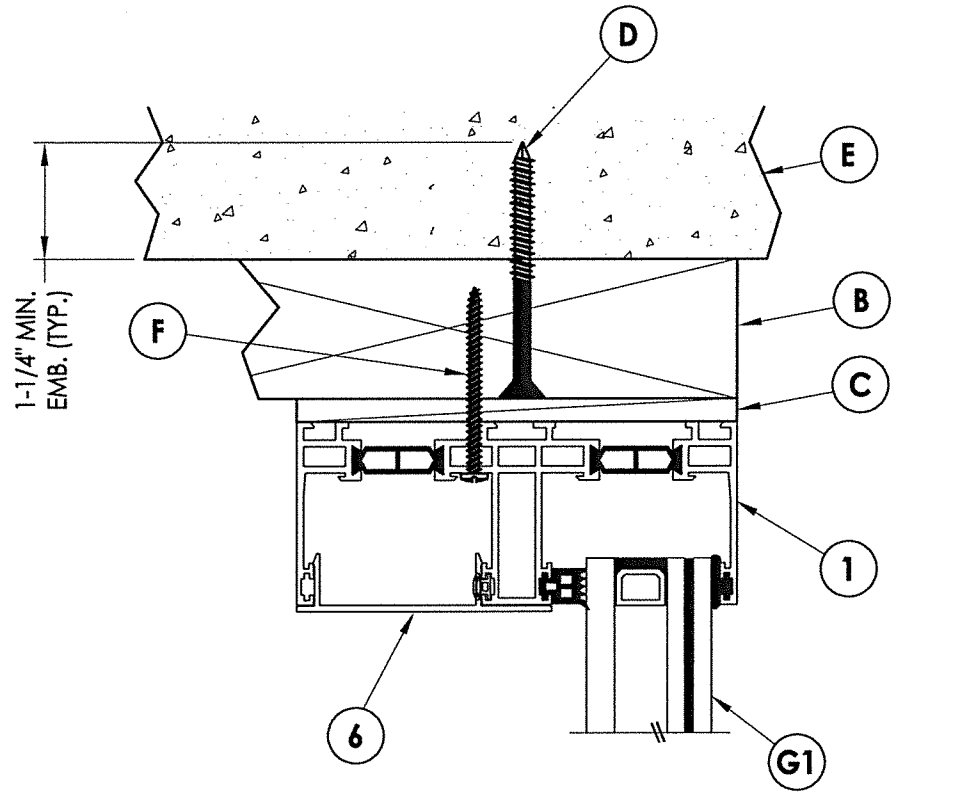


NOTE:
1. Spacing for Item 15: 3" from ends & 8" oc. max. thereafter.



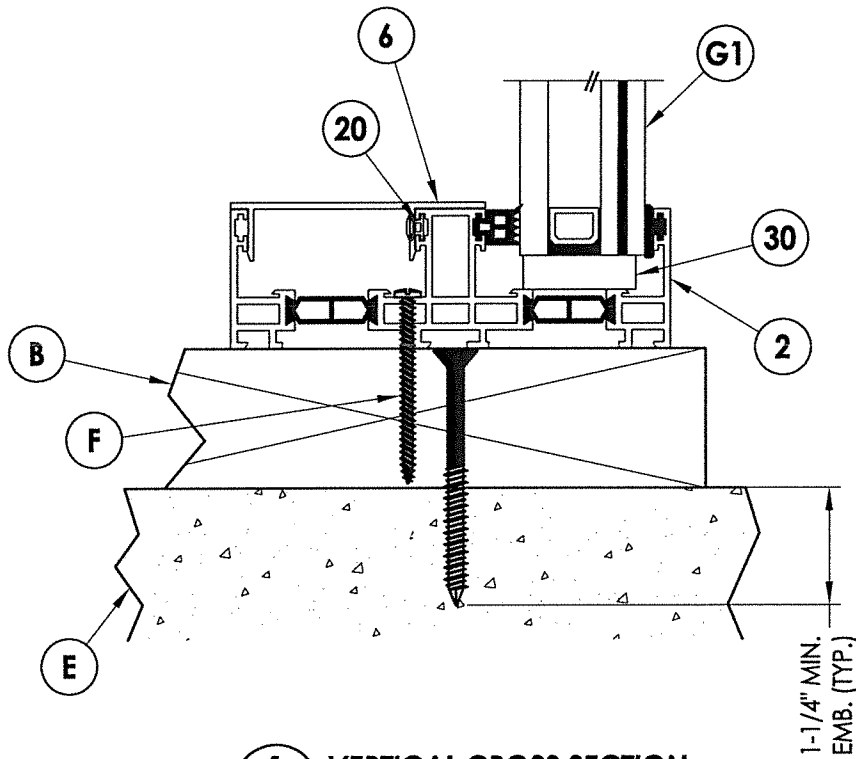
September 28, 2020
Documents Prepared By: Lyndon F. Schmidt
P.E. No. 43409
F. SCHMIDT
LICENSE
No. 43409
STATE OF FLORIDA
PROFESSIONAL ENGINEER
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry License No. 9813

PRODUCT: SMARTGLASS		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
		LFS	BY
		REVISIONS	
1	9/28/20	UPDATE TO 7TH ED. (2020)	FBC
NO.	DATE		
DATE: 9/26/19			
SCALE: N.T.S.			
DWG. BY: TRJ			
CHK. BY: LFS			
DRAWING NO.: FL-30470.1			
SHEET 2 OF 7			



INTERIOR

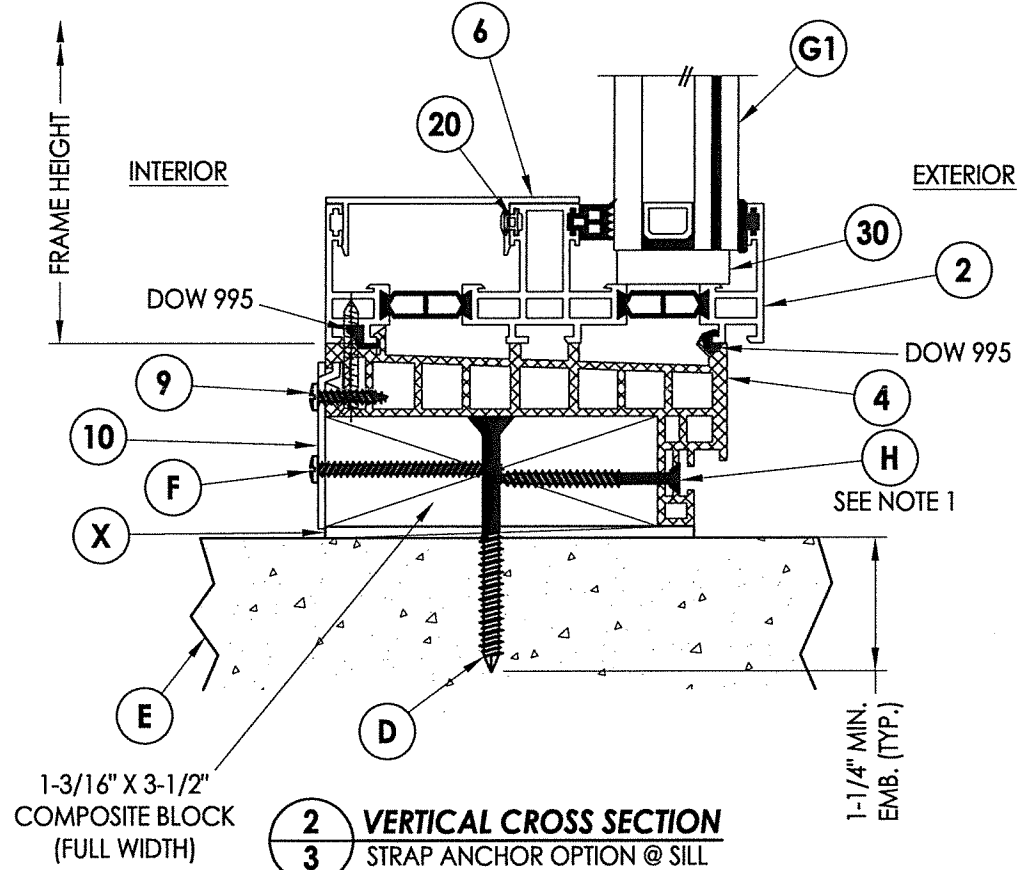
EXTERIOR



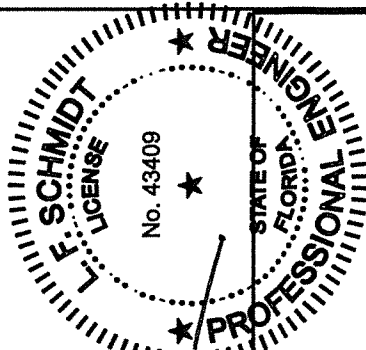
1
3 VERTICAL CROSS SECTION
2X BUCK CONSTRUCTION

NOTE:

1. Spacing for Item H: 6" from ends & 12" oc. max. thereafter.



2
3 VERTICAL CROSS SECTION
STRAP ANCHOR OPTION @ SILL



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Documents Prepared By:

PRODUCT: SMARTGLASS

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

DATE: 9/26/19

SCALE: N.T.S.

DWG. BY: TRJ

CHK. BY: LFS

DRAWING NO.: FL-30470.1

SHEET 3 OF 7

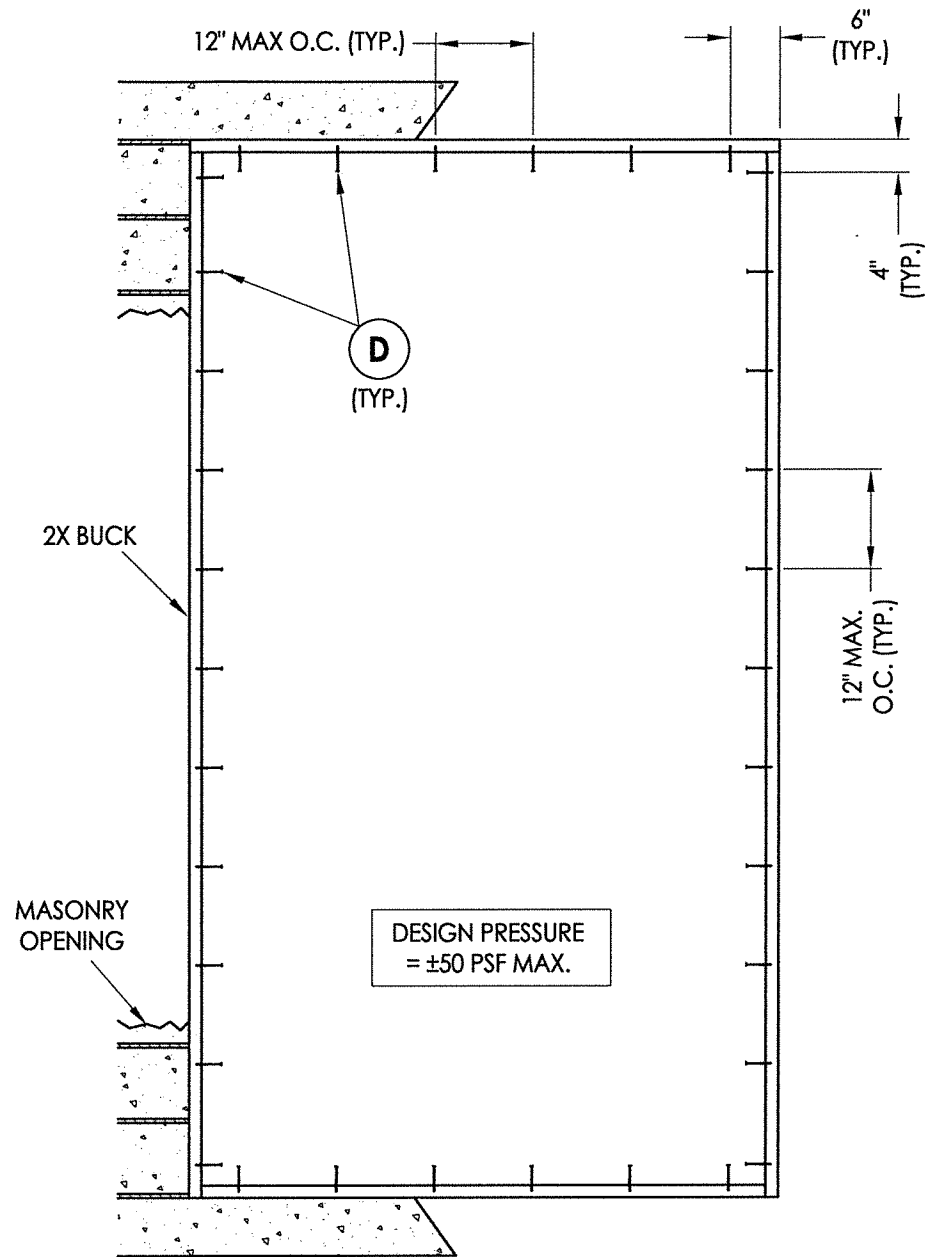
REVISIONS

NO. DATE

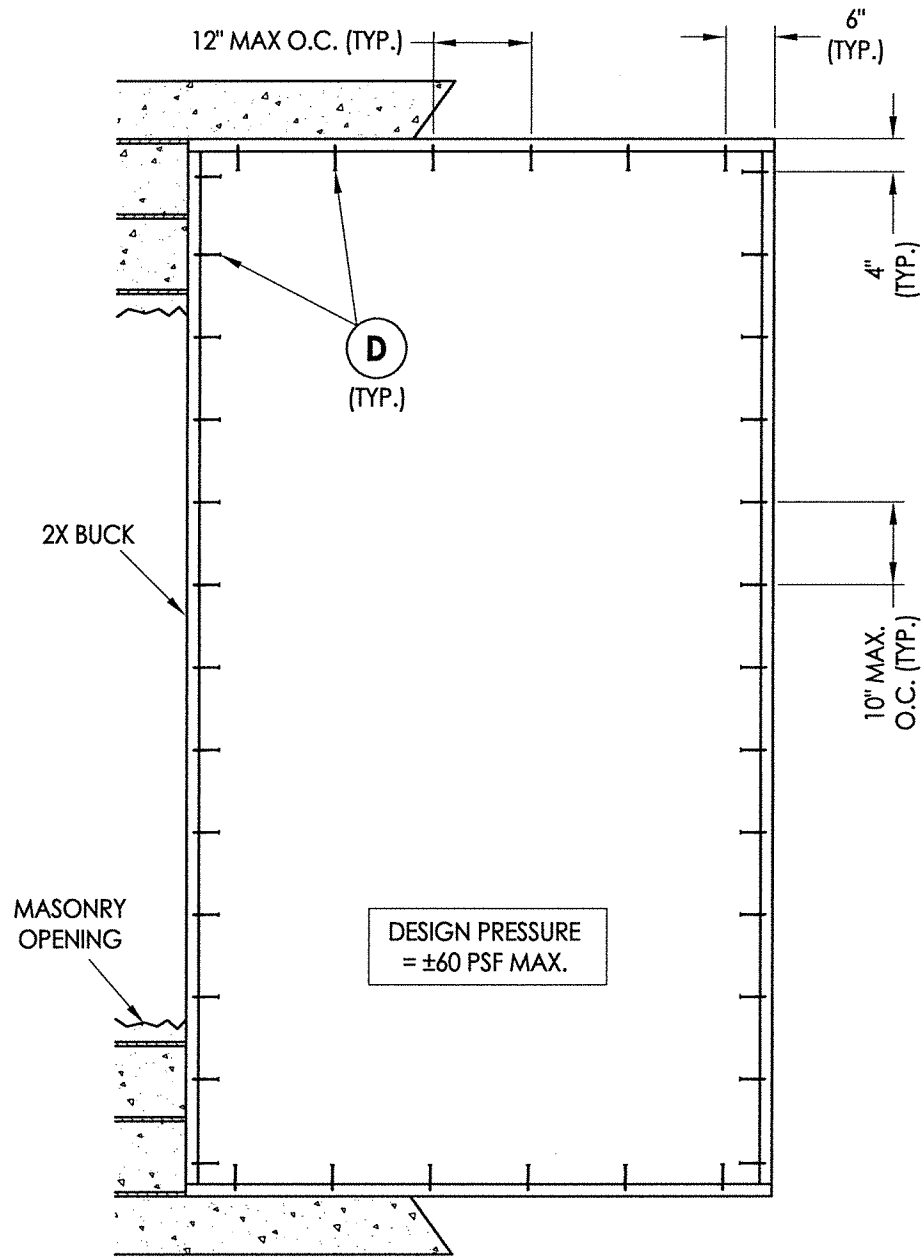
1 9/28/20 UPDATE TO 7TH ED. (2020) FBC

LFS BY

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2X BUCK ANCHORING



2X BUCK 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:

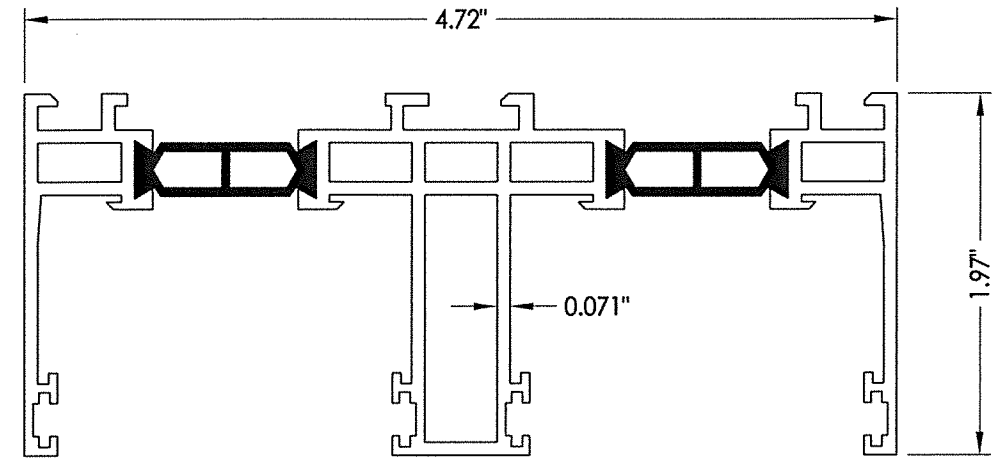
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	2-1/2"	4"

WOOD SCREW INSTALLATION NOTES:

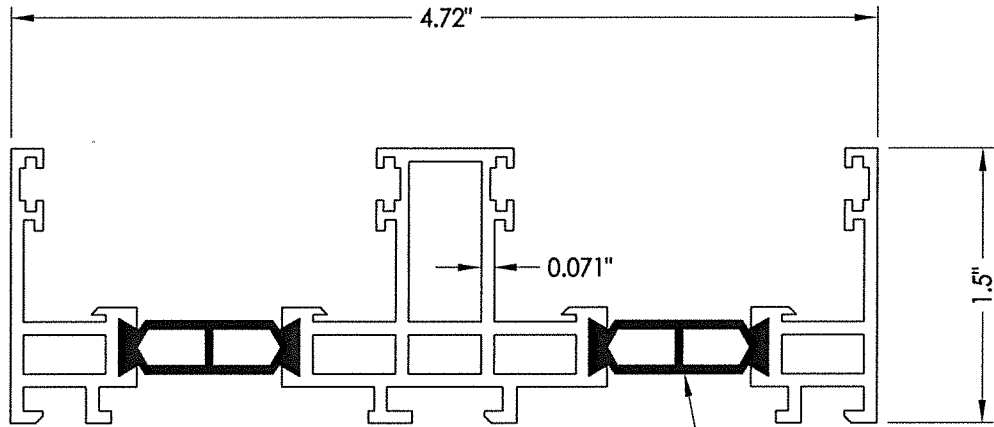
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

September 28, 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 License No. 9813					
PRODUCT:	SMARTGLASS				
PART OR ASSEMBLY:	BUCK ANCHORING				
DATE	NO.	DATE	NO.	DATE	NO.
9/28/20	2	9/28/20	1	9/28/20	1
UPDATE TO 7TH ED. (2020) FBC	LFS	UPDATE TO 7TH ED. (2020) FBC	LFS	UPDATE TO 7TH ED. (2020) FBC	BY
REVISIONS					
DATE: 9/26/19					
SCALE: N.T.S.					
DWG. BY: TRJ					
CHK. BY: LFS					
DRAWING NO.: FL-30470.1					
SHEET 4 OF 7					

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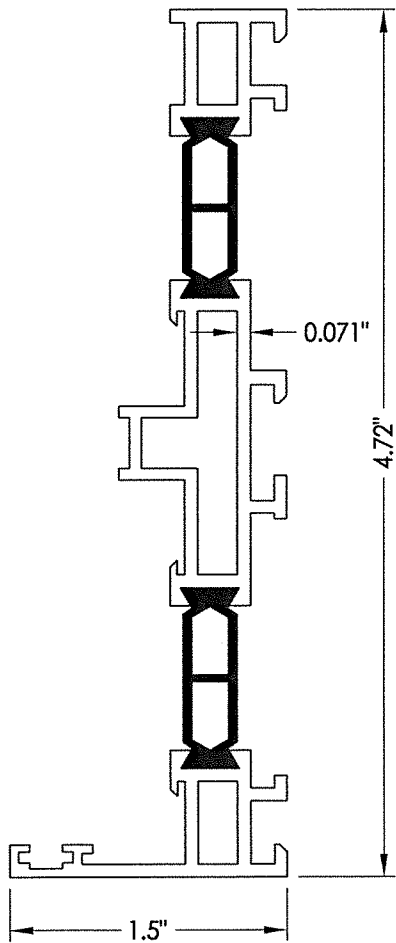


1 HEAD TRACK

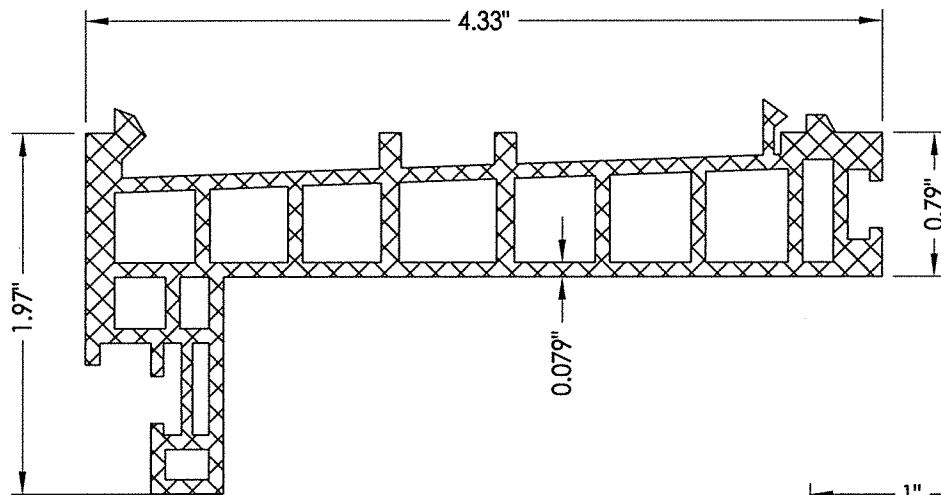


2 SILL TRACK

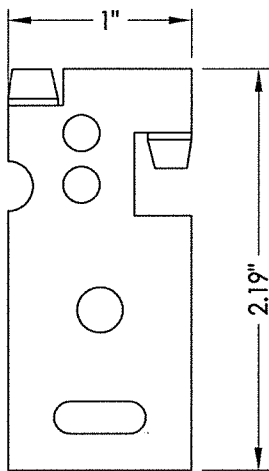
5 (TYP.)



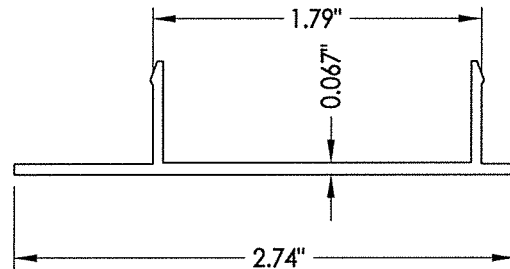
3 JAMB



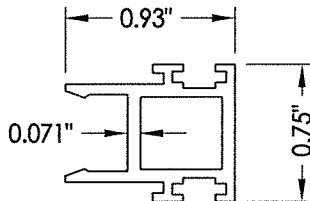
4 BOTTOM FLANGE



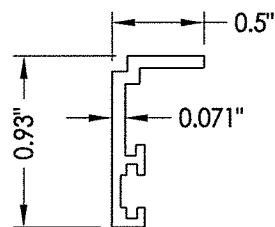
10 ANCHOR CLIP
14GA. (0.078" THICK)



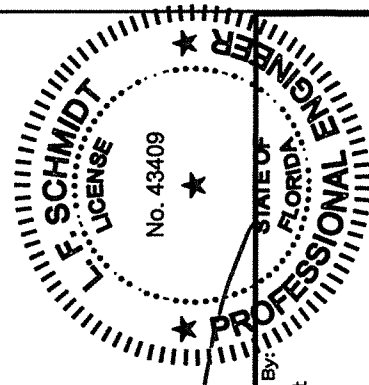
6 FRAME CAP



7 GLASS STOP (1-3/8")



8 FRAME STOP



September 28, 2020

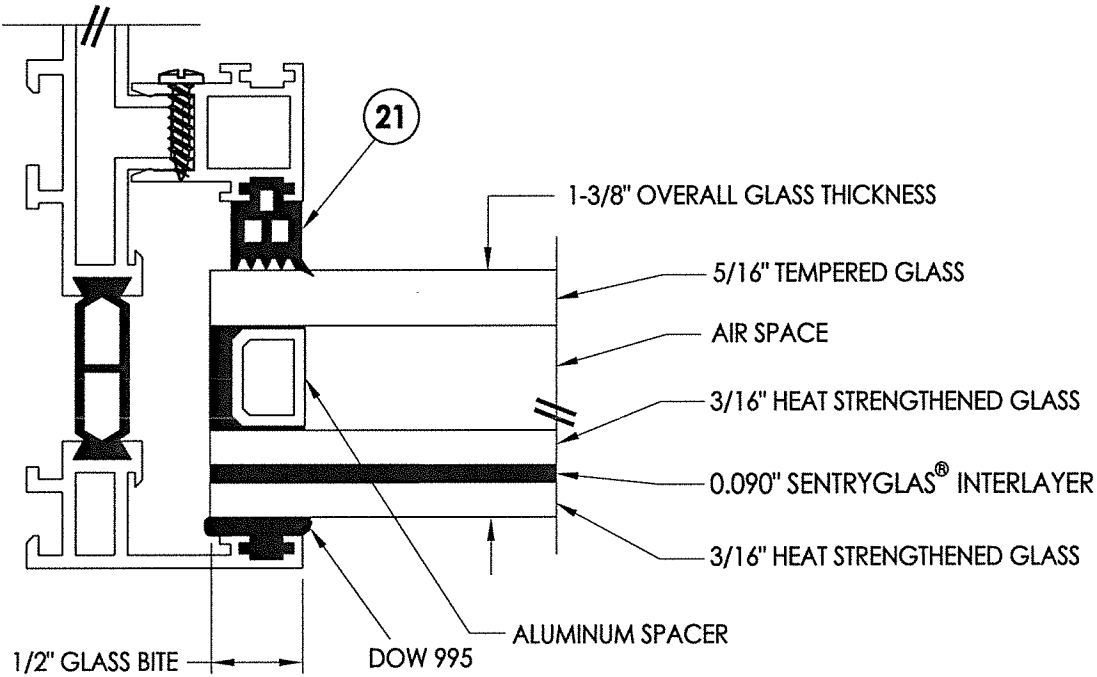
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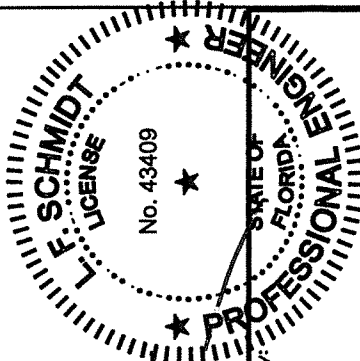
PRODUCT:		PART OR ASSEMBLY:	
SMARTGLASS		COMPONENTS	
NO.	DATE	UPDATE TO 7TH ED. (2020) FBC	BY
1	9/28/20	UPDATE TO 7TH ED. (2020) FBC	LFS
REVISIONS			
DATE: 9/26/19			
SCALE: N.T.S.			
DWG. BY: TRJ			
CHK. BY: LFS			
DRAWING NO.: FL-30470.1			
SHEET 6 OF 7			

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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 PFH CONCRETE SCREW	STEEL
E	MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8 X 2" PH WOOD SCREW (1-3/16" MIN. EMBEDMENT)	STEEL
G	1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
H	#8 X 2" FH SMS	STEEL
X	1/8" MAX. SHIM SPACE	-
1	HEAD TRACK	6066-T6 ALUM
2	SILL TRACK	6066-T6 ALUM
3	JAMB	6066-T6 ALUM
4	BOTTOM FLANGE	PVC
5	THERMAL BREAK	PVC
6	FRAME CAP	6066-T6 ALUM
7	GLASS STOP (1-3/8")	6066-T6 ALUM
8	FRAME STOP	6066-T6 ALUM
9	#10 X 1" PH SMS	STEEL
10	ANCHOR CLIP	STEEL
15	#6 X 3/8" PH SMS	STEEL
20	BULB VINYL WEATHERSTRIP	-
21	VINYL GASKET	-
30	SETTING BLOCK	-



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



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PRODUCT:		SMARTGLASS	
PART OR ASSEMBLY:		BILL OF MATERIALS & GLAZING DETAILS	
NO.	DATE	REVISIONS	BY
			LFS
1	9/28/20	UPDATE TO 7TH ED. (2020) FBC	BY
DATE:		9/26/19	
SCALE:		N.T.S.	
DWG. BY:		TRJ	
CHK. BY:		LFS	
DRAWING NO.:		FL-30470.1	
SHEET		7 OF 7	