

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

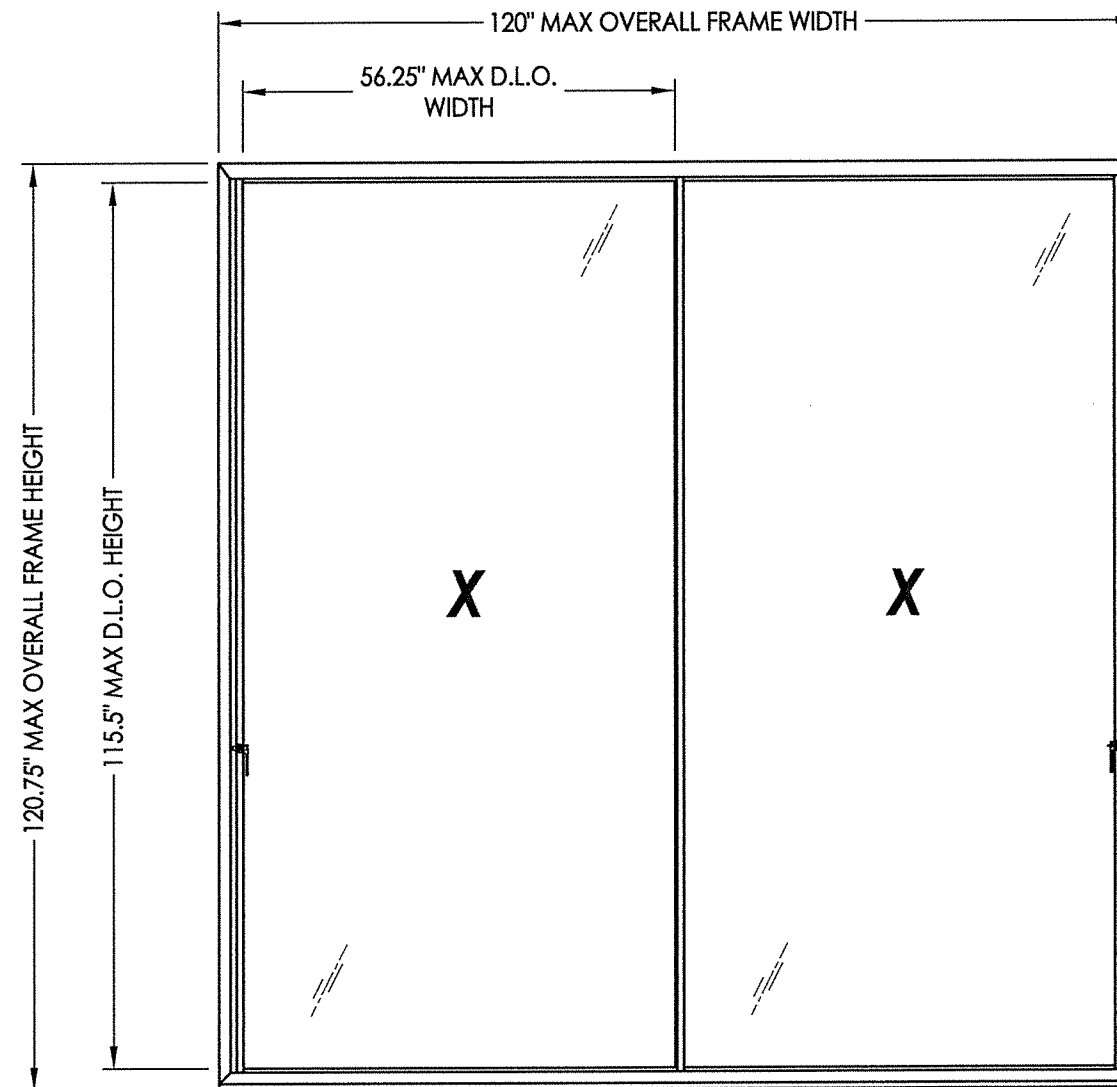
"KELLER minimal windows"

Insulated Sliding Glass Window/Door "NON-IMPACT"

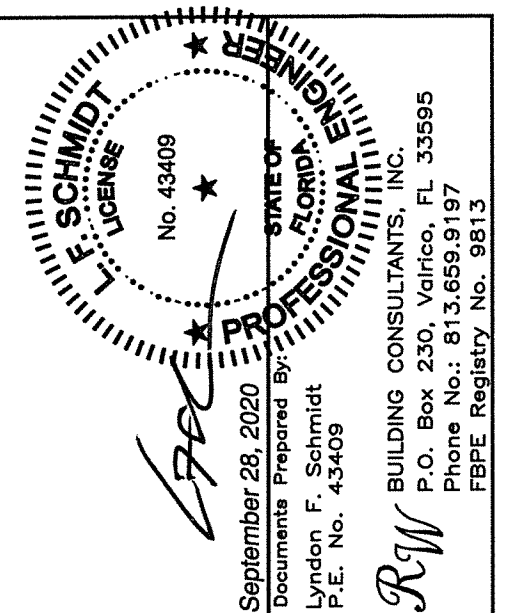
GENERAL NOTES

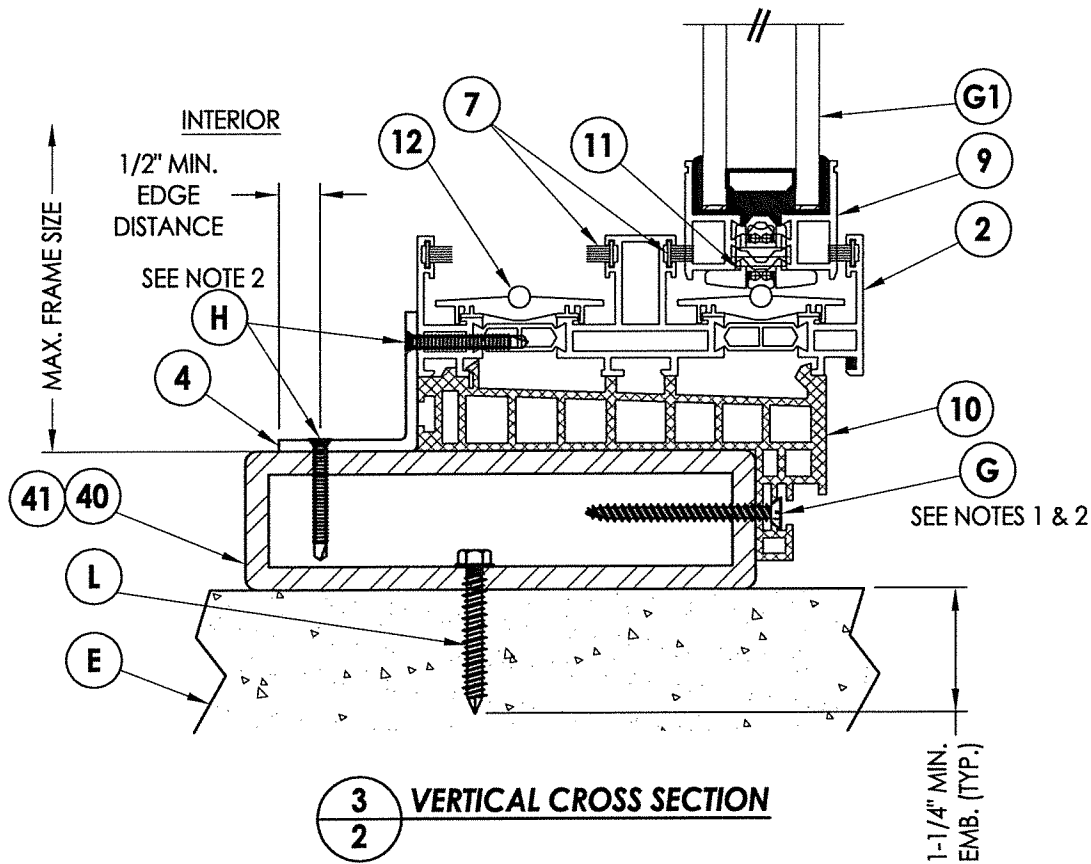
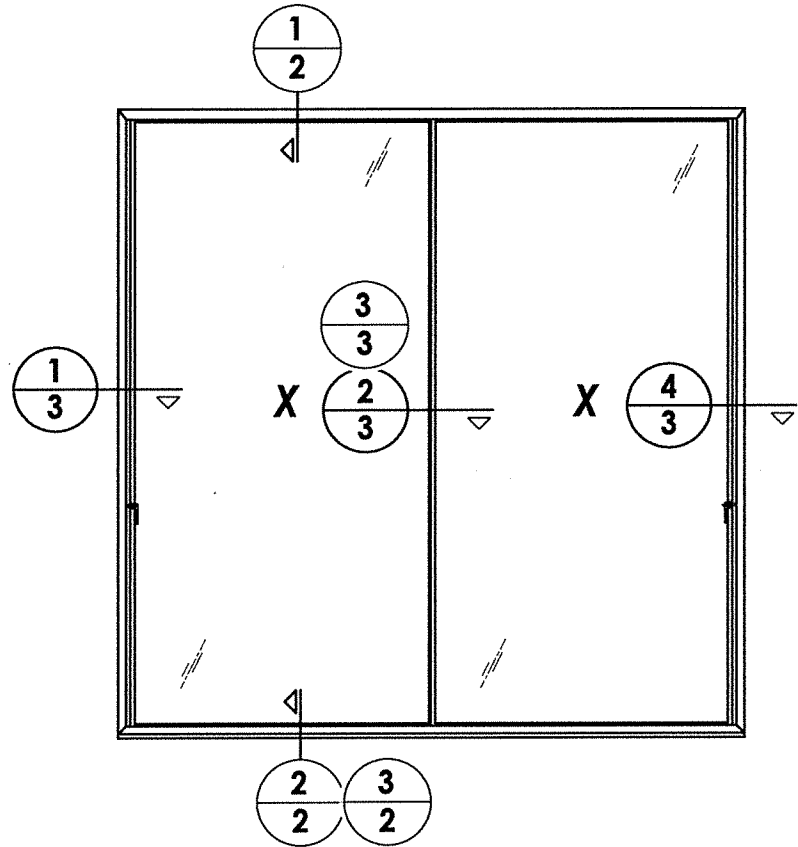
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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	Vertical cross sections
3	Horizontal cross sections
4	Buck and frame anchoring
5	Bill of materials, components and glazing detail

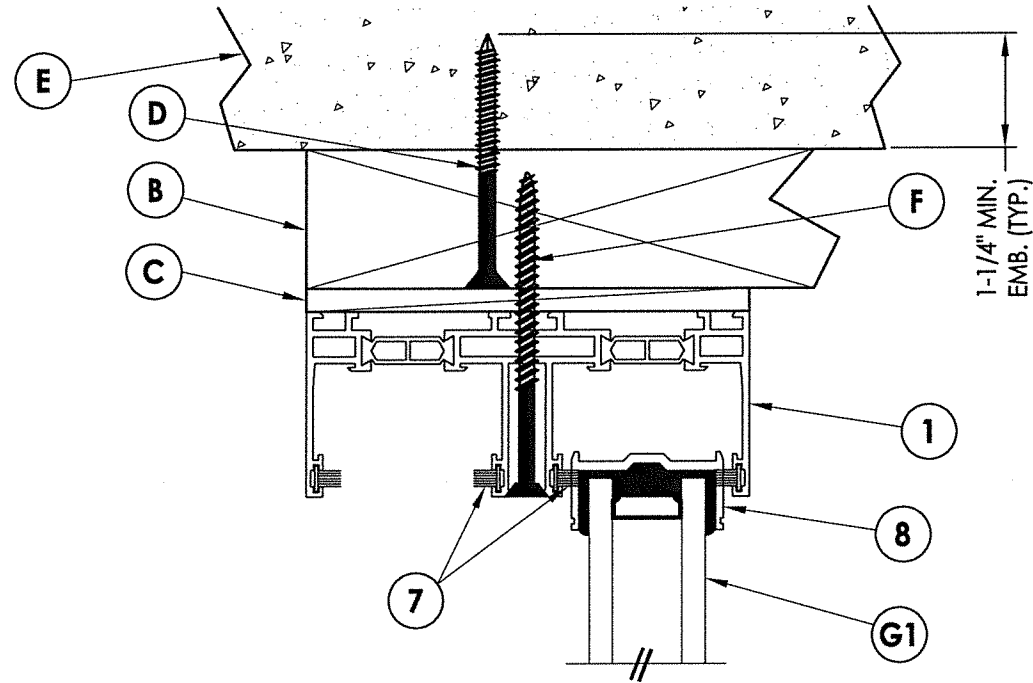


OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)		DESIGN PRESSURE (PSF) w/ REINFORCEMENT	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
120.0" x 120.75"	56.25" x 115.5"	G1	+30.0	-35.0	+35.0	-35.0
120.0" x 108.75"	56.25" x 103.5"	G1	+33.3	-38.8	+38.8	-38.8
120.0" x 96.75"	56.25" x 91.5"	G1	+37.5	-43.7	+43.7	-43.7

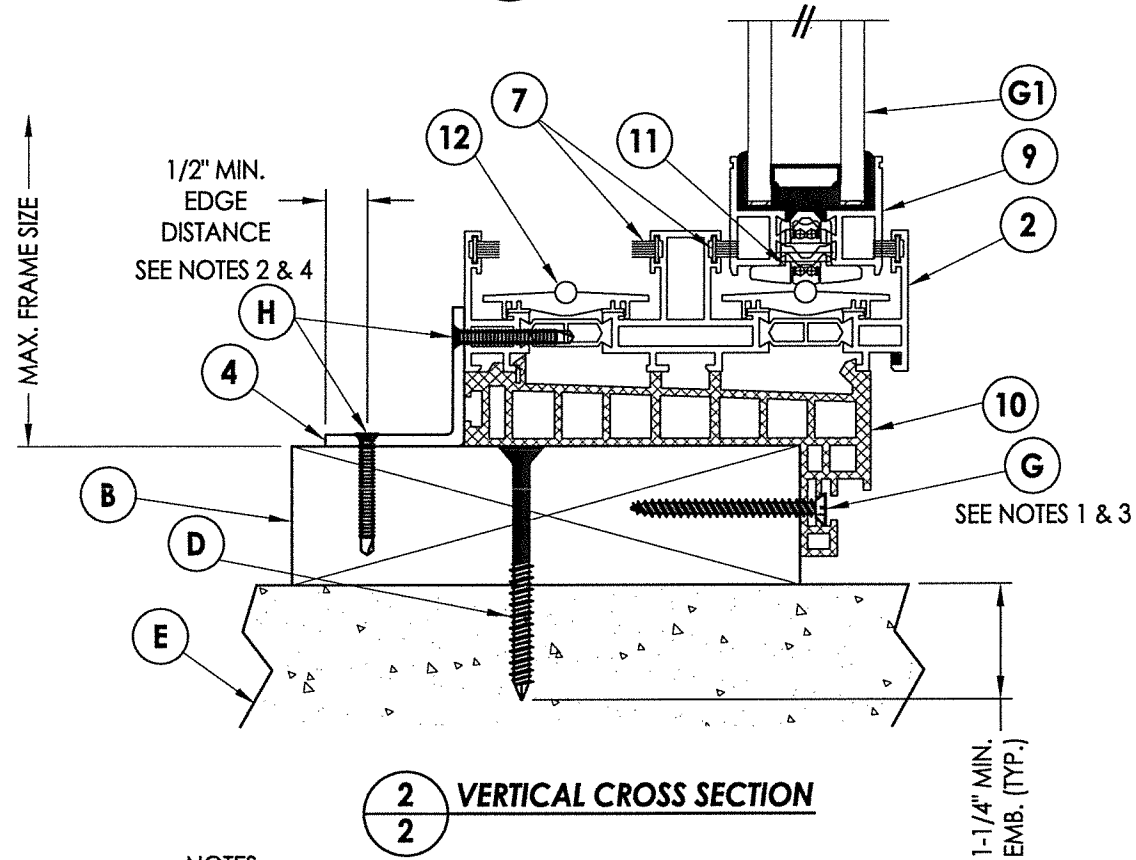
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3
2 VERTICAL CROSS SECTION

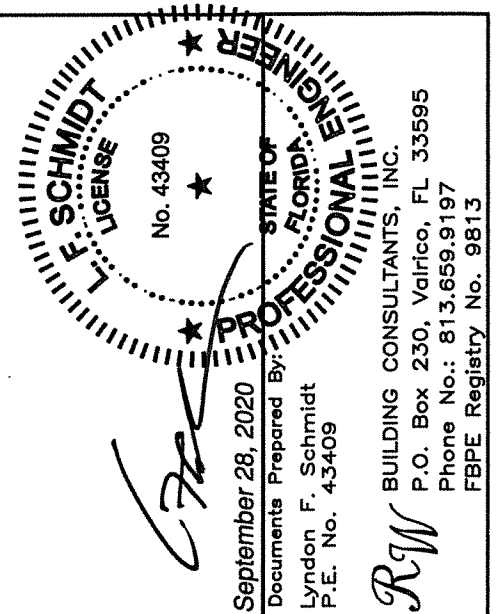


1
2 VERTICAL CROSS SECTION

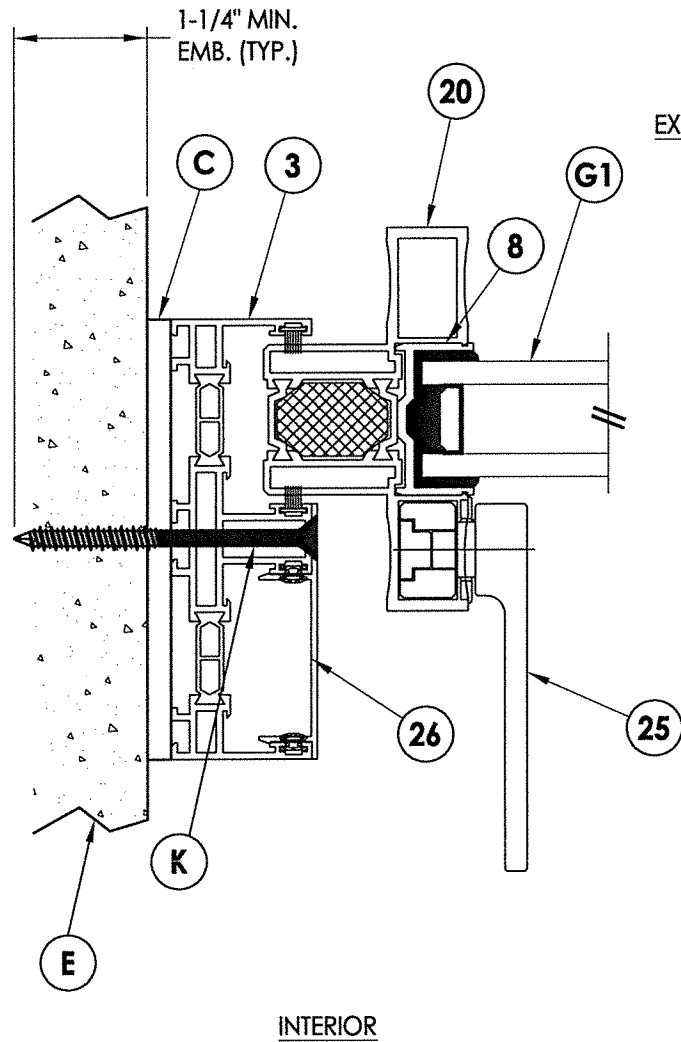


2
2 VERTICAL CROSS SECTION

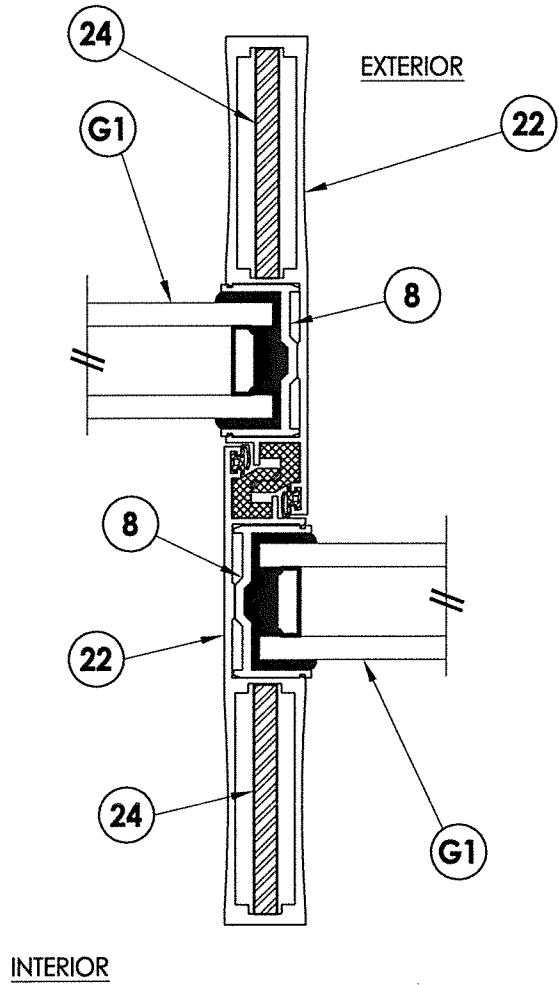
- NOTES:
- Item #G located 1-1/2" from each and 1-1/2" o.c. thereafter.
 - Min. 3 threads must protrude completely through steel tube. Maintain 1/2" min. edge distance.
 - Min. 1-1/2" embedment into 2x buck. Maintain 5/8" min. buck edge distance.
 - Min. 1-1/4" embedment into 2x buck. Maintain 5/8" min. buck edge distance.



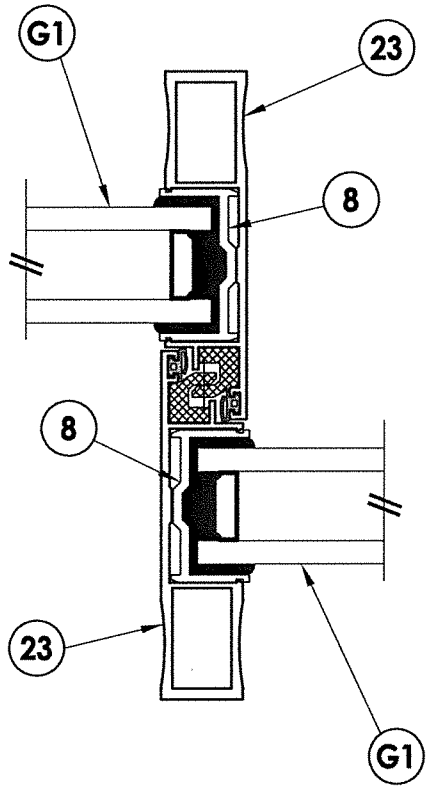
PRODUCT:		SMARTGLASS	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
REVISIONS			
NO.	DATE	BY	
3	9/28/20	LFS	UPDATE TO 7TH ED. (2020) FBC
2	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC
1	04/22/15	JK	UPDATE TO 5TH ED. (2014) FBC
DATE		DATE	
6/18/12			
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-15701.1	
SHEET		2	OF 5



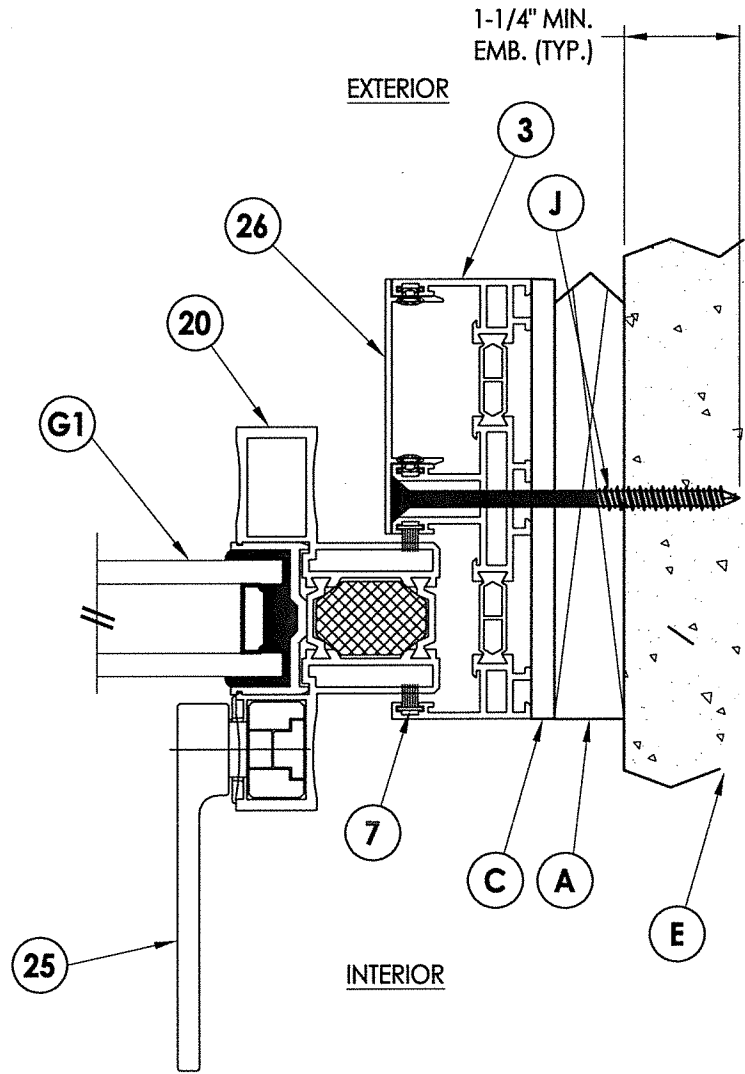
1 HORIZONTAL CROSS SECTION
3 Shown Direct to Masonry



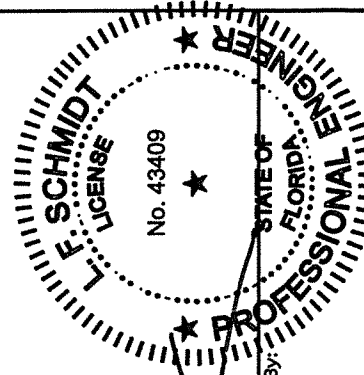
2 HORIZONTAL CROSS SECTION
3 w/ Reinforcement



3 HORIZONTAL CROSS SECTION
3



4 HORIZONTAL CROSS SECTION
3 Shown W/ 1x Buck

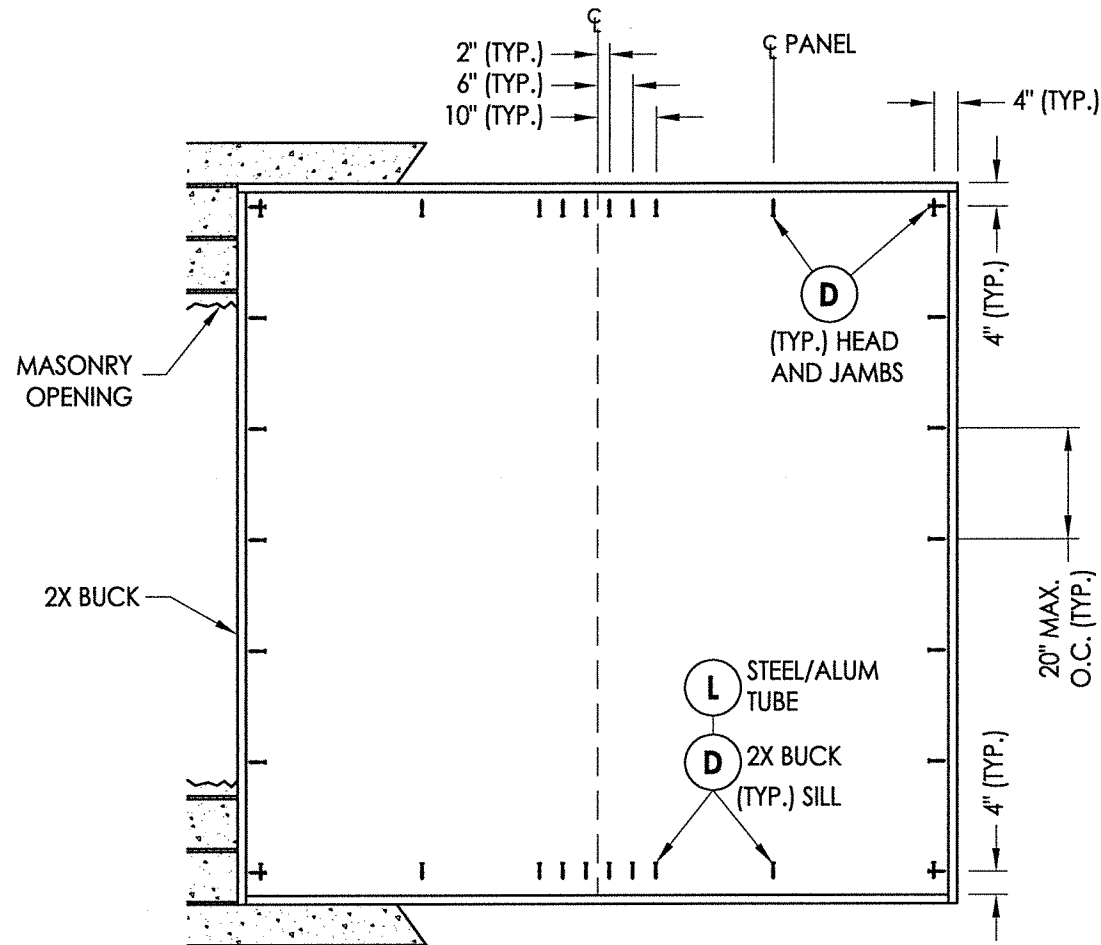


September 28, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

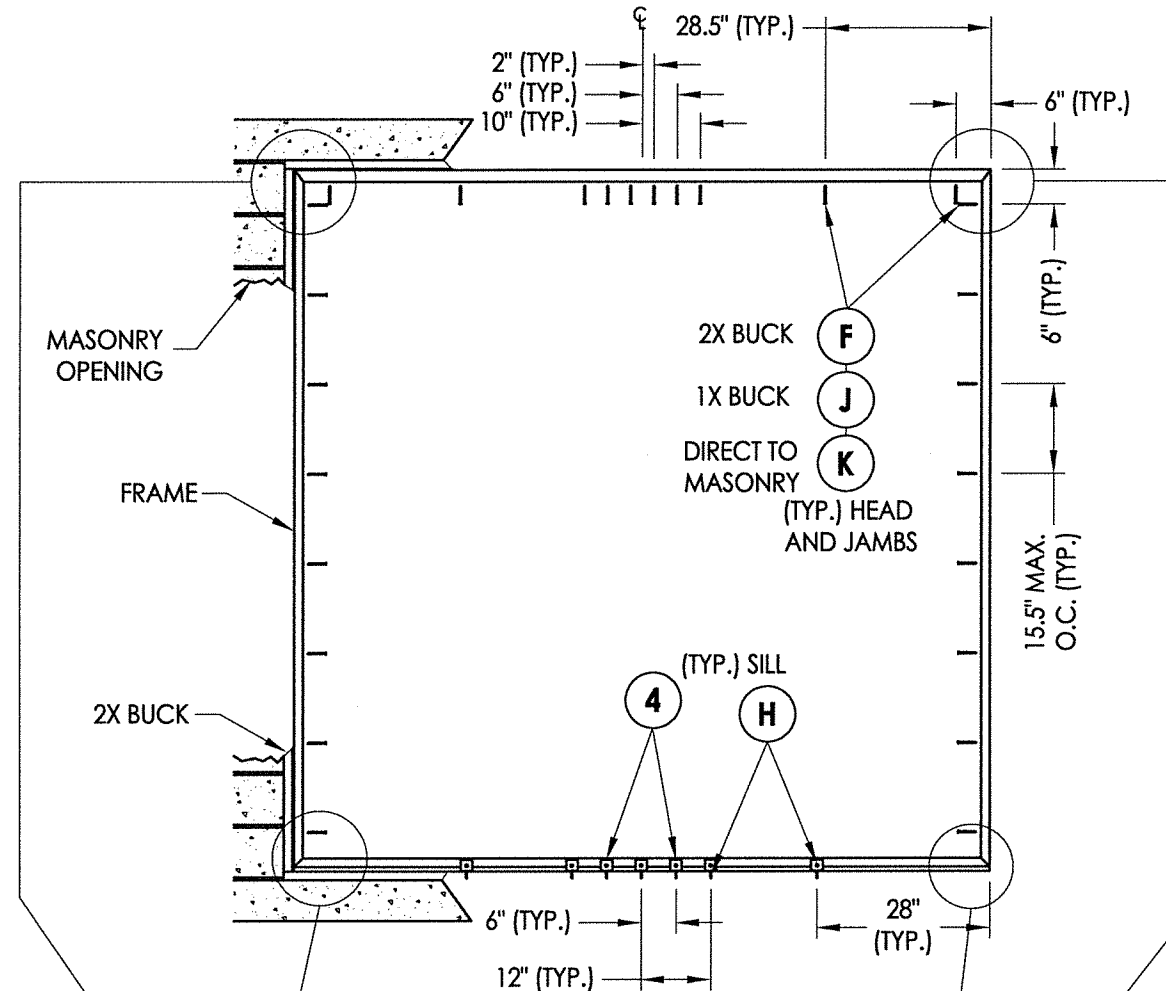
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		SMARTGLASS	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
REVISIONS			
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3	9/28/20	LFS	UPDATE TO 7TH ED. (2020) FBC
2	9/26/17	JK	UPDATE TO 6TH ED. (2017) FBC
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DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15701.1			
SHEET 3 OF 5			

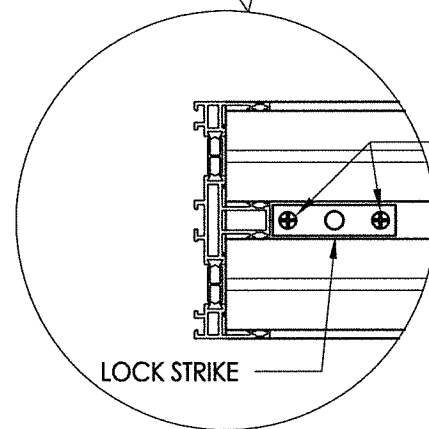
R:\Clients\Smartglass, Inc. PERMANENT\A - Florida Product Approvals\FL-15701\C - Drawings\FL 15701 (2020)\FL-15701.dwg, 4.1



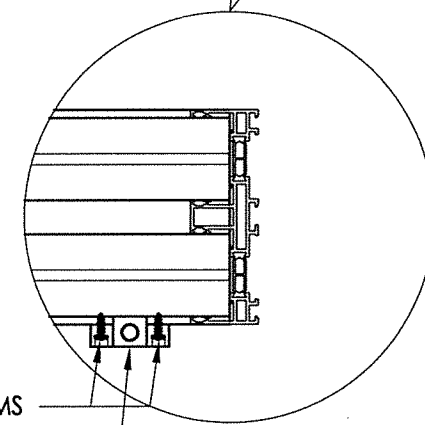
BUCK ANCHORING



FRAME ANCHORING



EXTERIOR



INTERIOR

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.

FL SCHMIDT
LICENSE
No. 43409
STATE OF FLORIDA
PROFESSIONAL ENGINEER

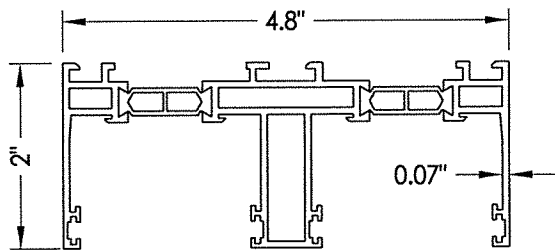
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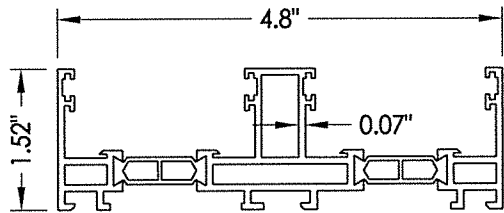
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PART OR ASSEMBLY:	BUCK AND FRAME ANCHORING		
REVISIONS			
NO.	DATE	BY	JK
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SHEET 4 OF 5			

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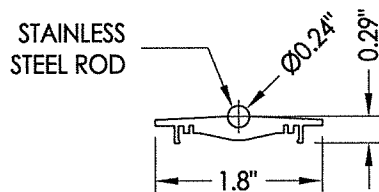
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	-
F	#10 X 3-1/2" PFH SMS (1.25" MIN. EMBEDMENT)	STEEL
G	#10 X 2" PFH SMS	STEEL
H	#8 X 1-1/2" PFH SELF-DRILLING SMS	STEEL
J	1/4" X 4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
K	1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
L	1/4" X 1-1/2" DeWALT OR ITW HH CONCRETE SCREW	STEEL
1	HEAD TRACK	6066-T66 ALUM
2	SILL TRACK	6066-T66 ALUM
3	JAMB	6066-T66 ALUM
4	1.5" X 1.5" L BRACKET (MODEL N285-510 - National Mfg.)	STEEL
7	WEATHERSTRIPPING	-
8	TOP RAIL AND STILE	6066-T66 ALUM
9	BOTTOM RAIL	6066-T66 ALUM
10	BOTTOM FLANGE	PVC
11	ROLLER ASSEMBLY (KELLER)	-
12	ROLLER TRACK ASSEMBLY (KELLER)	-
20	HANDLE BAR	6066-T66 ALUM
22	MEETING STILE	6066-T66 ALUM
23	MEETING STILE	6066-T66 ALUM
24	REINFORCEMENT	SS
25	LOCK MECHANISM (KELLER)	-
26	JAMB COVER	6066-T66 ALUM
40	1.5" X 5.5" MIN. TUBE (1/4" WALL)	6063-T6 ALUM
41	1.5" X 5.5" MIN. TUBE (1/4" WALL)	A500 STEEL



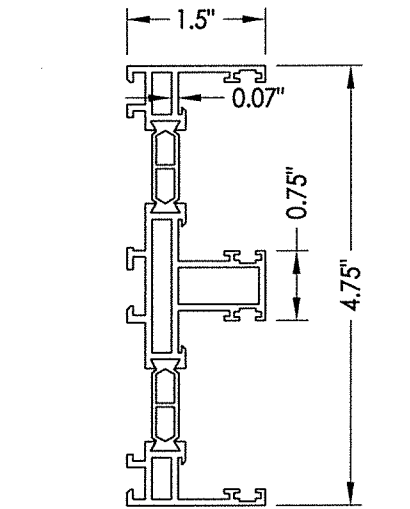
1 HEAD TRACK



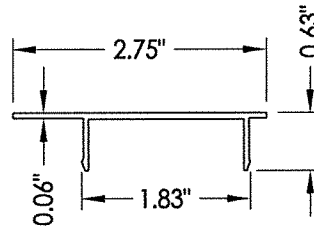
2 SILL TRACK



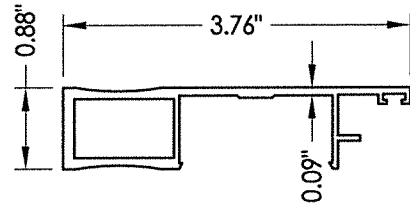
12 ROLLER TRACK



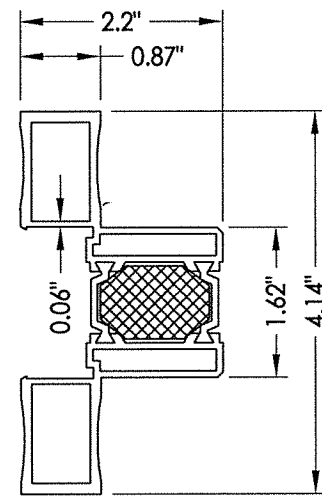
3 JAMB



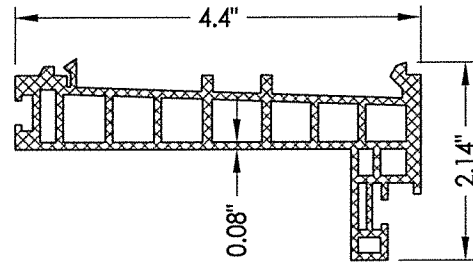
26 JAMB COVER



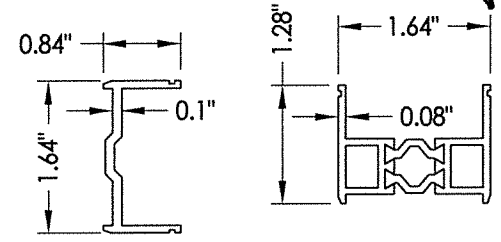
23 MEETING STILE



20 HANDLE BAR

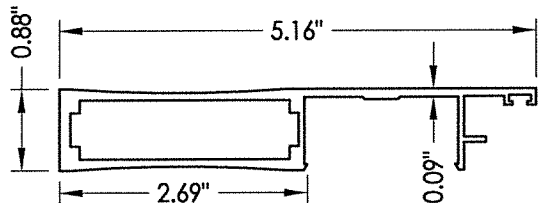


10 BOTTOM FLANGE

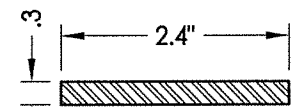


8 TOP RAIL & STILE

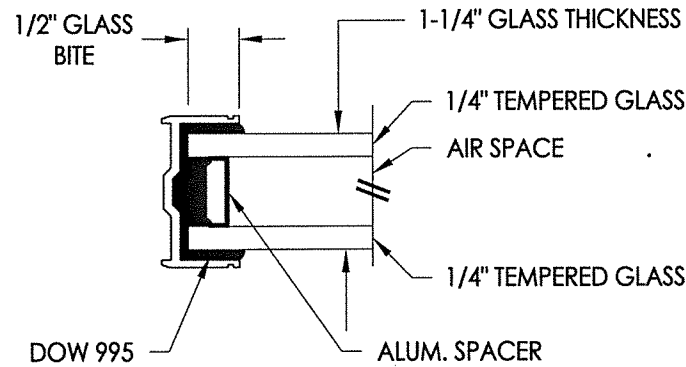
9 BOTTOM RAIL



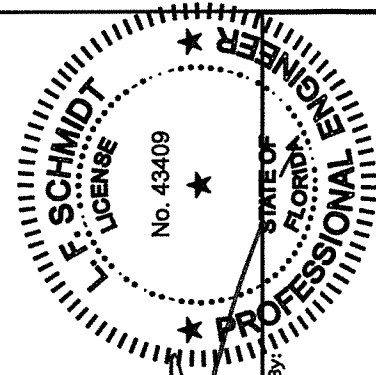
22 MEETING STILE



24 REINFORCEMENT BAR
Full height



G1 GLAZING DETAIL



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PRODUCT: SMARTGLASS
PART OR ASSEMBLY:
BILL OF MATERIALS, COMPONENTS
AND GLAZING DETAIL

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SHEET 5 OF 5