

# smartglass

55 Southeast 2nd Avenue, Suite 211  
Delray Beach, Florida 3344

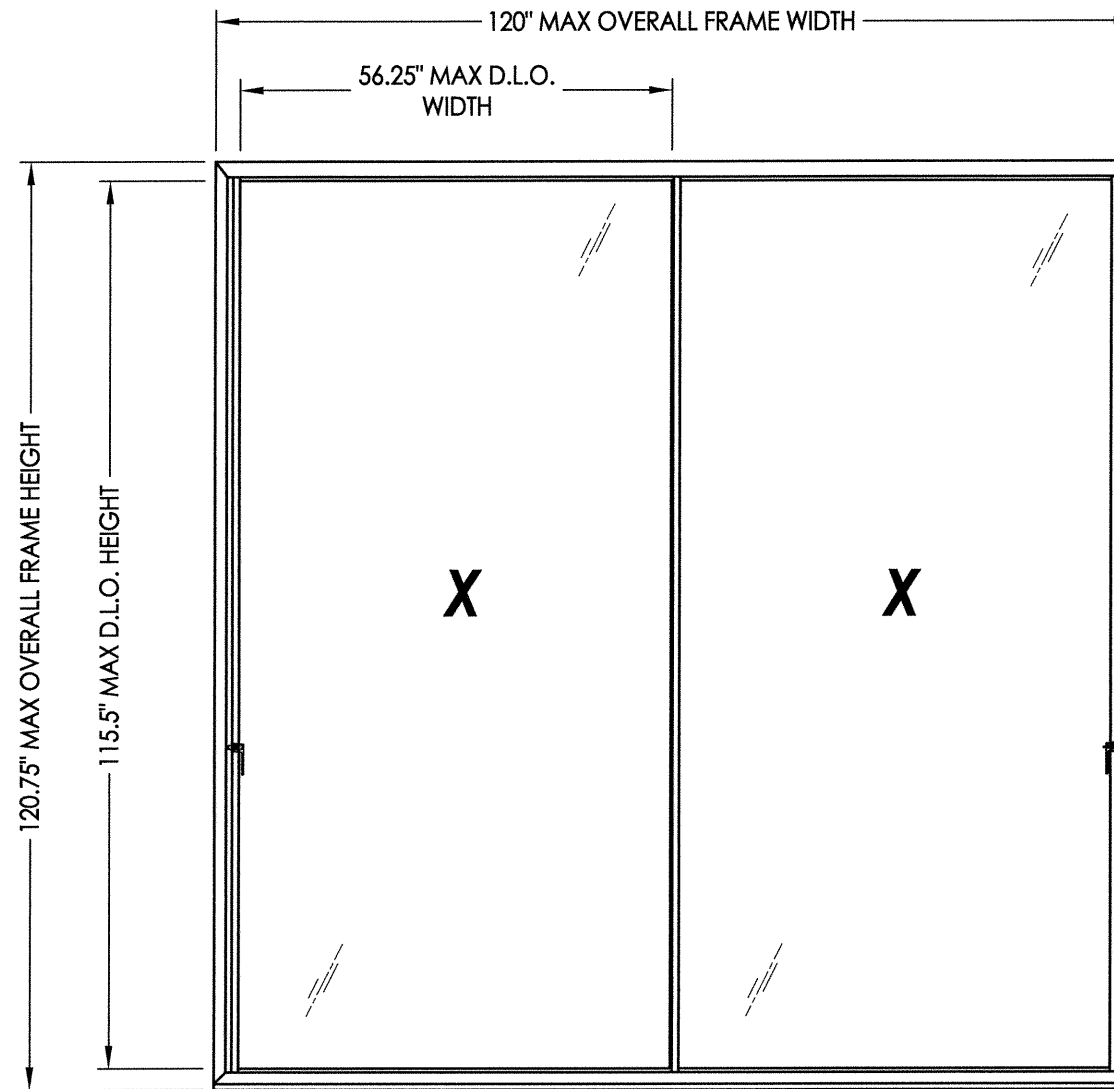
## "KELLER minimal windows"

Insulated Sliding Glass Window/Door  
"NON-IMPACT"

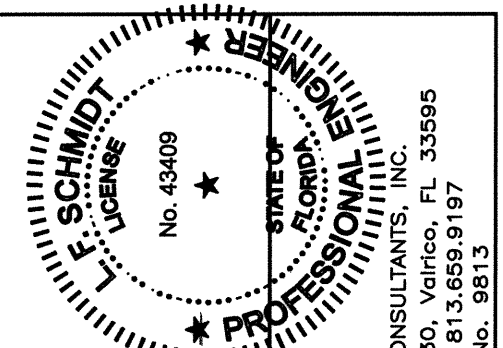
### GENERAL NOTES

1. This product has been evaluated and is in compliance with the 5th Edition (2014) 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 Section 1609.1.2 of the FBC.
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



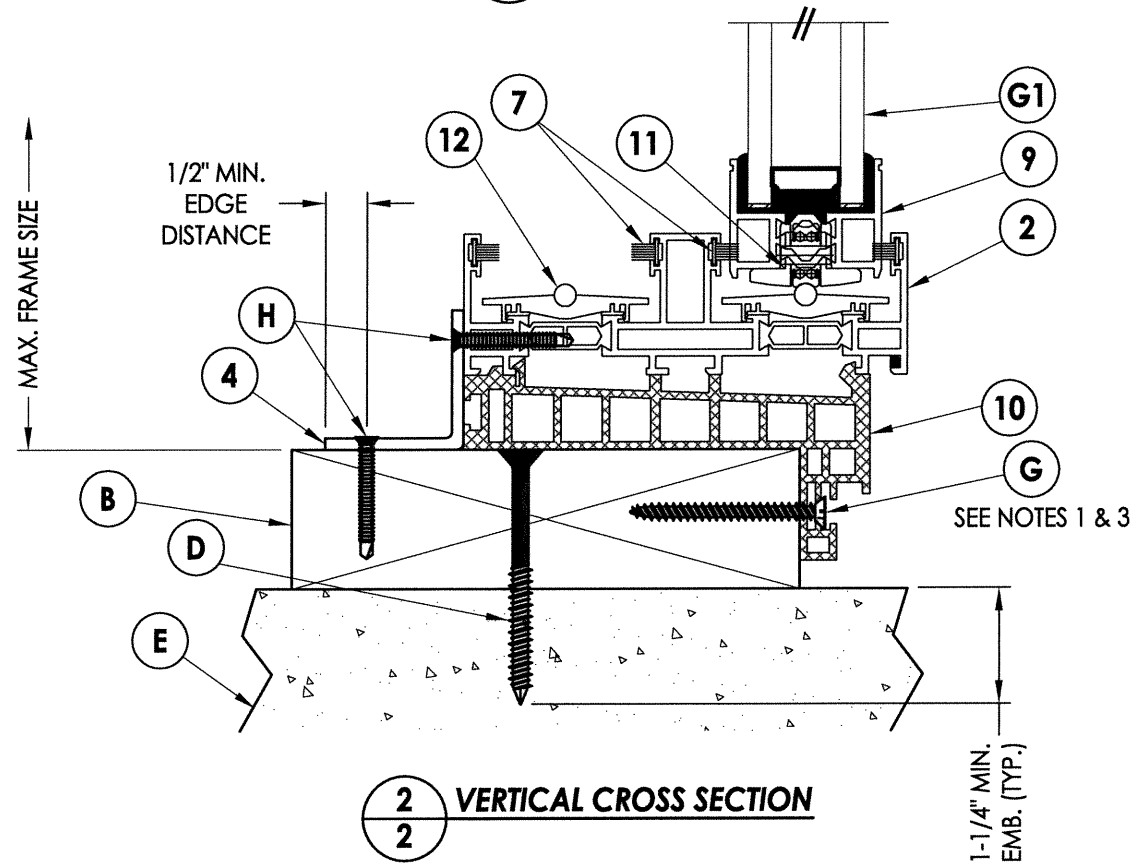
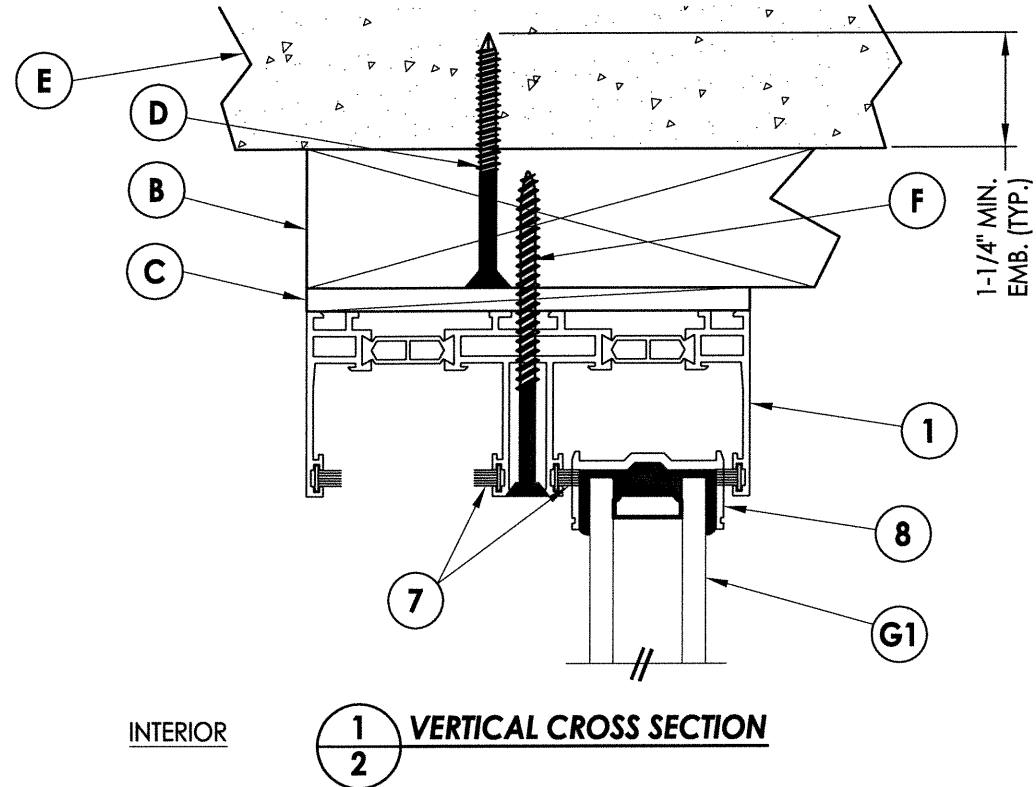
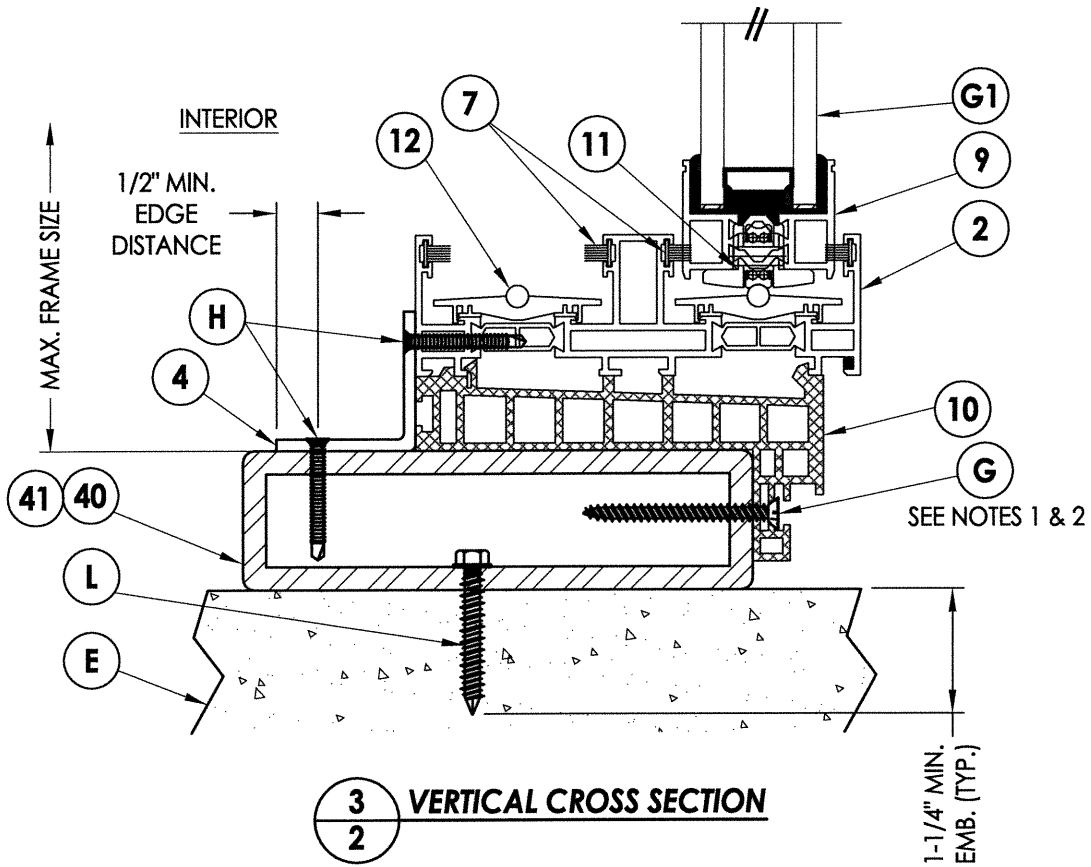
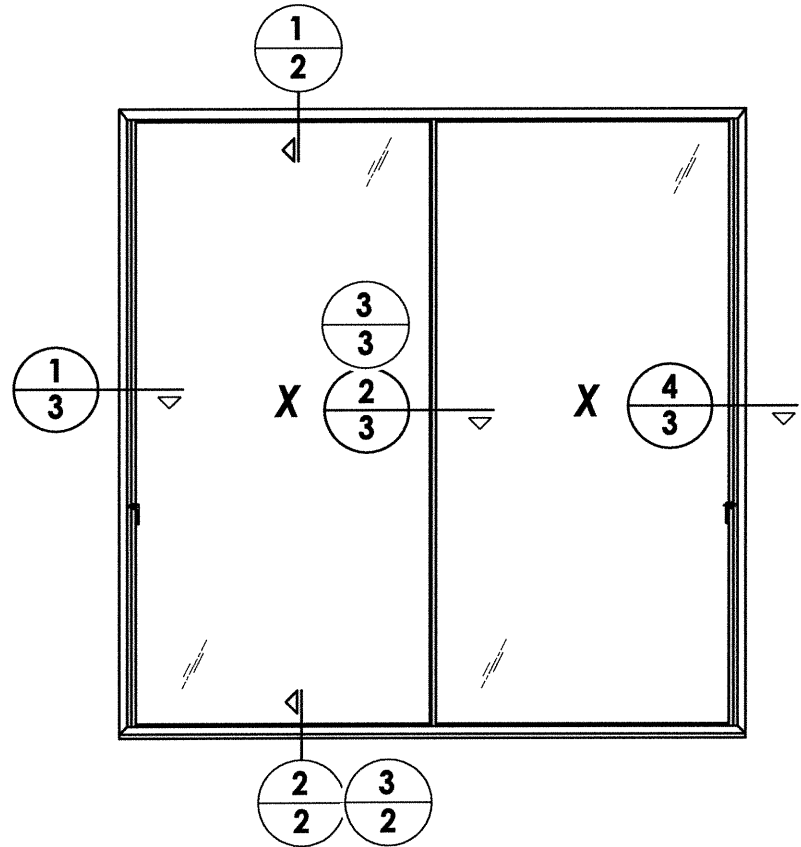
OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)		DESIGN PRESSURE (PSF) w/ REINFORCEMENT	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
120.0" x 120.75"	56.25" x 115.5"	G1	+30.0	-35.0	+35.0	-35.0
120.0" x 108.75"	56.25" x 103.5"	G1	+33.3	-38.8	+38.8	-38.8
120.0" x 96.75"	56.25"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



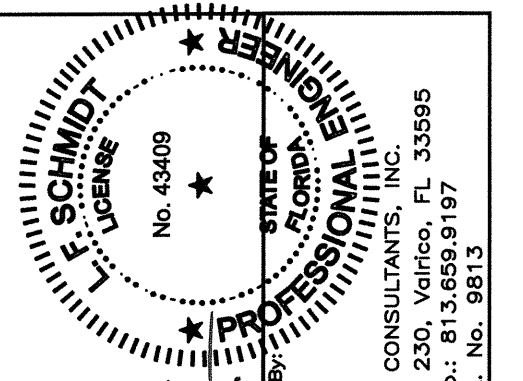
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

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

PRODUCT:	SMARTGLASS
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
DATE:	6/18/12
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-15701.1
SHEET	1 OF 5

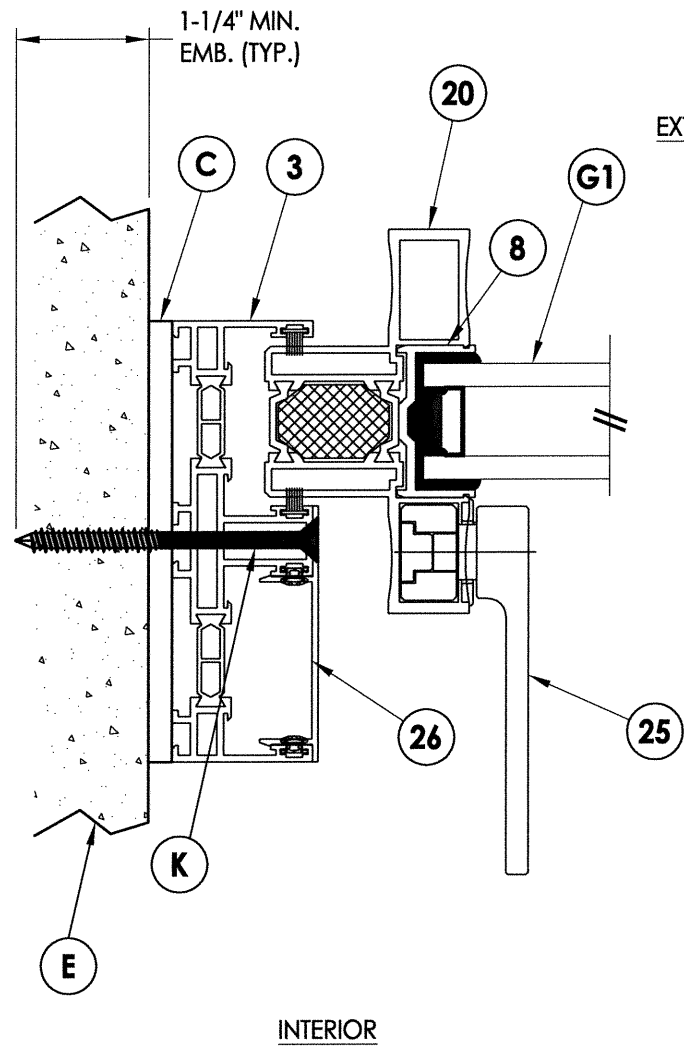


- NOTES:
- Item #G located 1-1/2" from each and 1-1/2" o.c. thereafter.
  - Min. 3 threads must protrude completely through steel. Maintain 1/2" min. edge distance.
  - Min. 1-1/2" embedment into 2x buck. Maintain 5/8" min. edge distance.

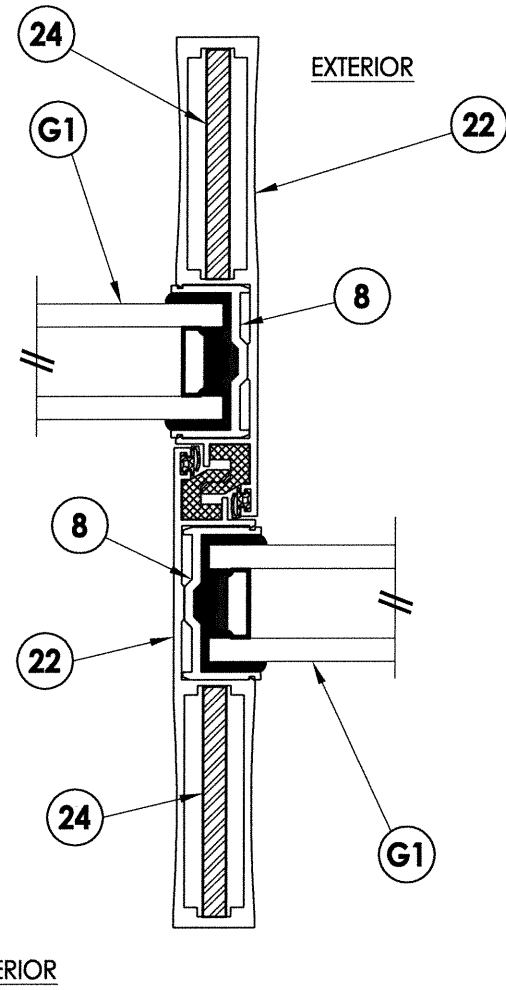


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 R.W. BUILDING CONSULTANTS, INC.  
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 Phone No.: 813.659.9197  
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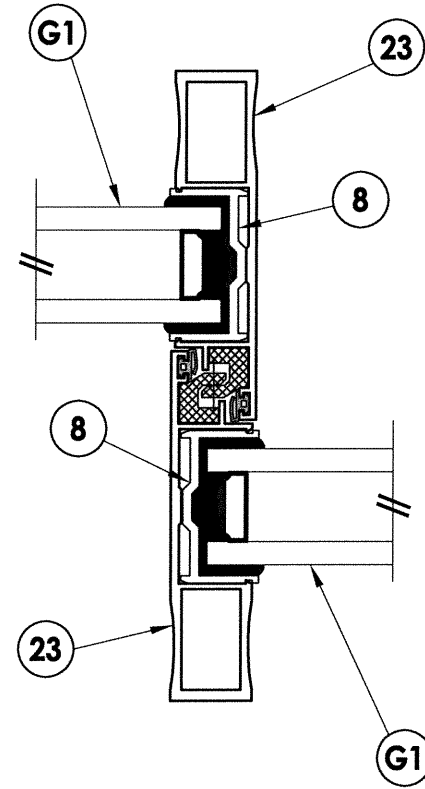
PRODUCT:	SMARTGLASS	
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS	
NO.	DATE	BY
1	04/22/15	JK
		FBC
		BY
REVISIONS		
DATE:	6/18/12	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-15701.1	
SHEET	2	OF 5



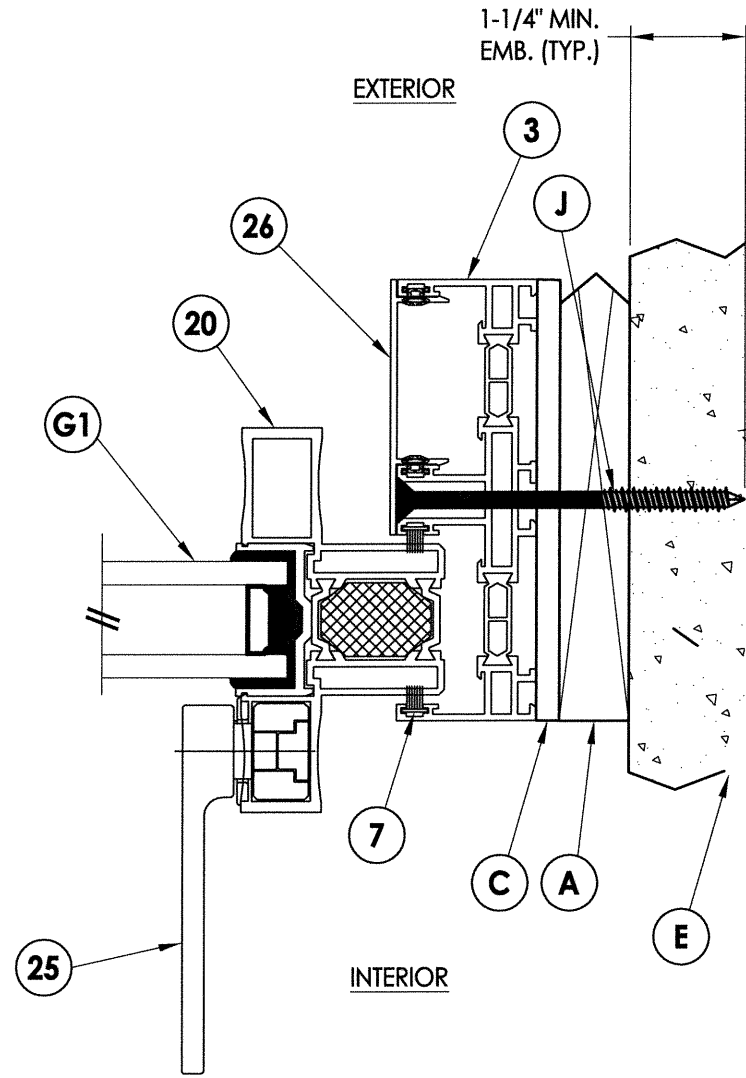
**1** **HORIZONTAL CROSS SECTION**  
**3** Shown Direct to Masonry



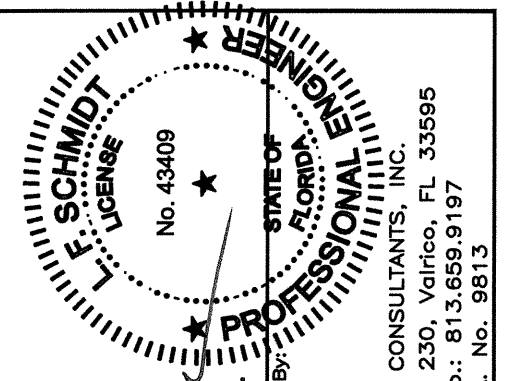
**2** **HORIZONTAL CROSS SECTION**  
**3** w/ Reinforcement



**3** **HORIZONTAL CROSS SECTION**  
**3** Shown W/ 1x Buck

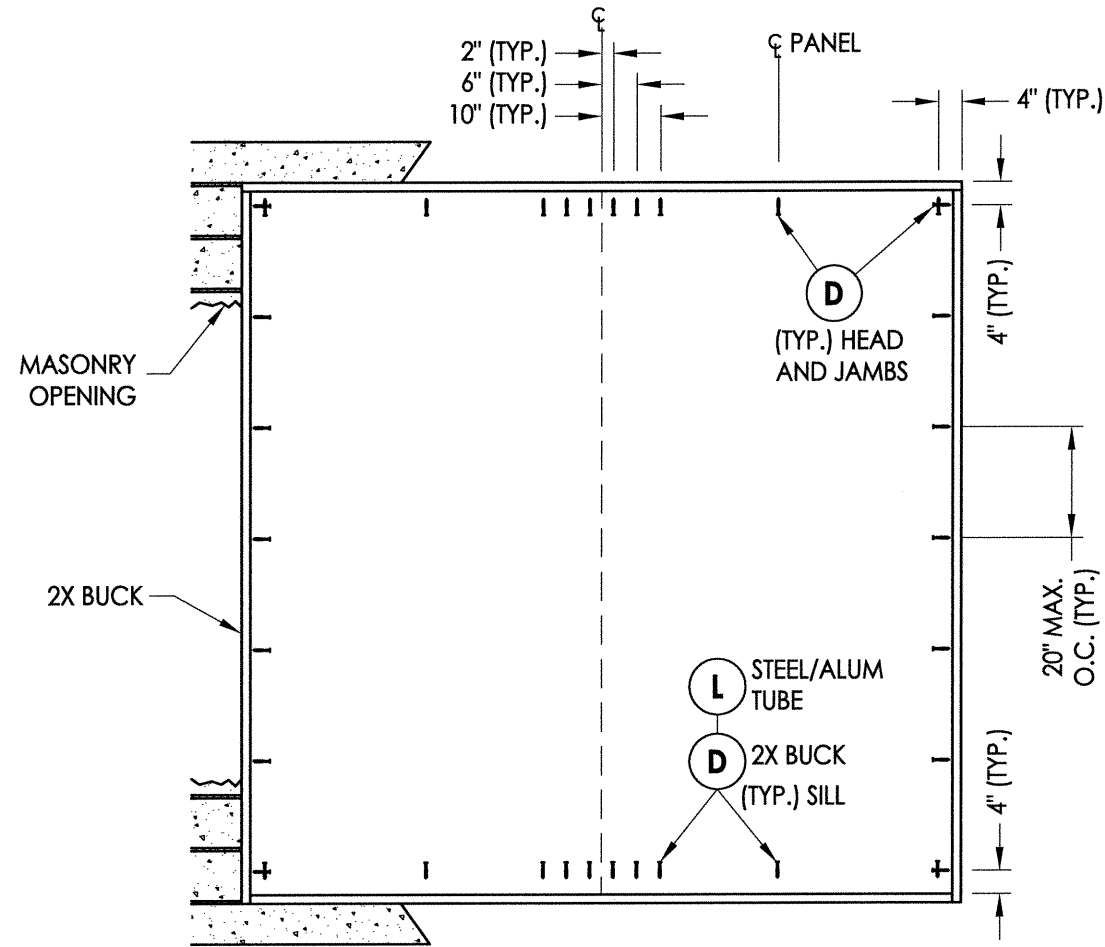


**4** **HORIZONTAL CROSS SECTION**  
**3** Shown W/ 1x Buck

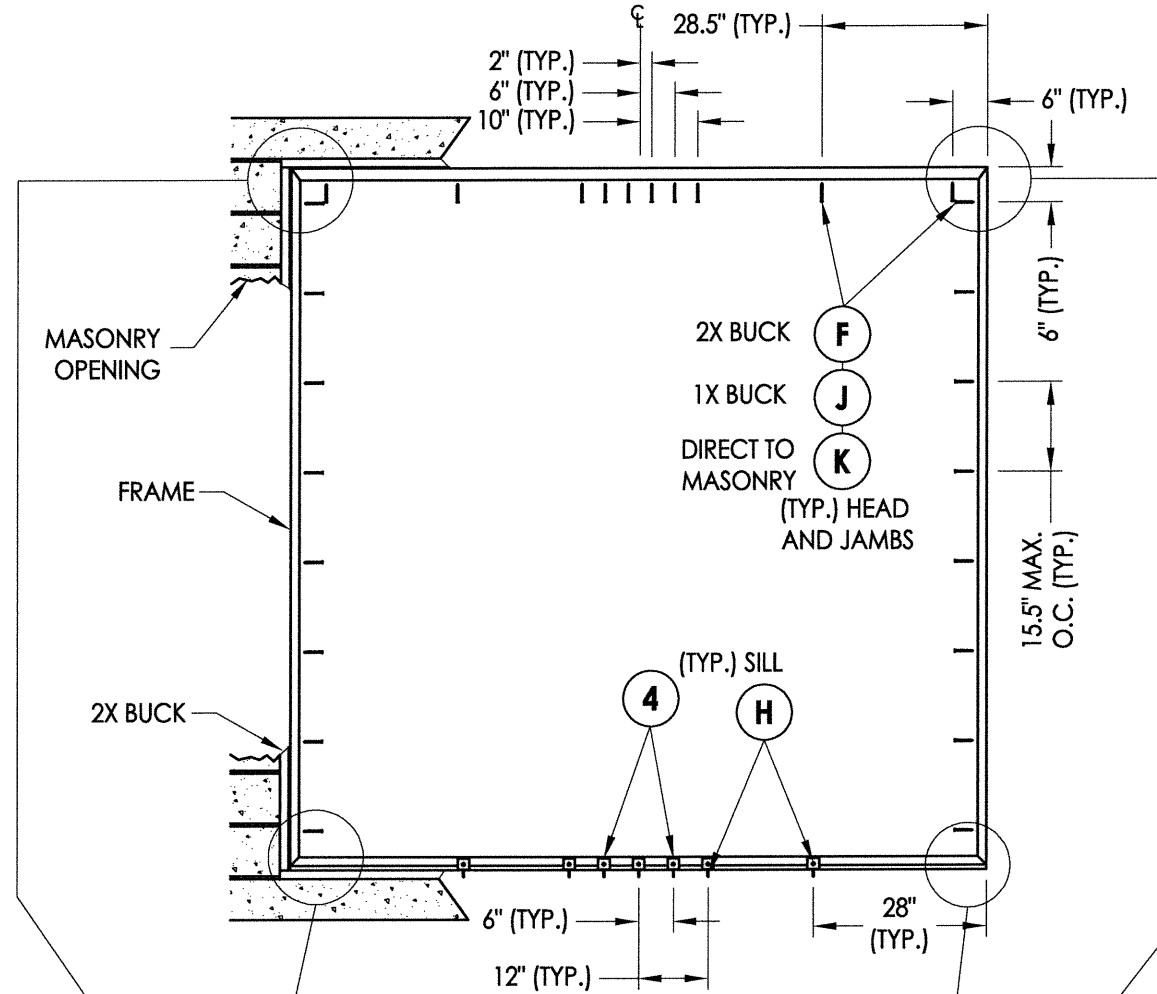


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 Lyndon F. Schmidt  
 P.E. No. 43409  
 R.W.  
 BUILDING CONSULTANTS, INC.  
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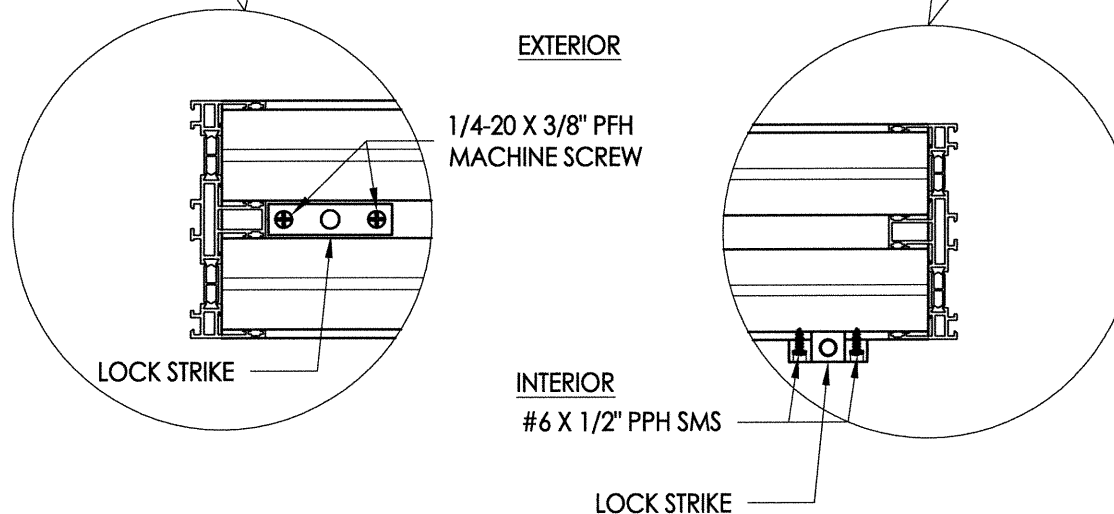
PRODUCT:	SMARTGLASS		
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS		
NO.	DATE	DATE	BY
1	04/22/15	UPDATE TO 5TH ED. (2014)	FBC JK
REVISIONS			
DATE:	6/18/12		
SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-15701.1		
SHEET	3	OF	5



**BUCK ANCHORING**



**FRAME ANCHORING**



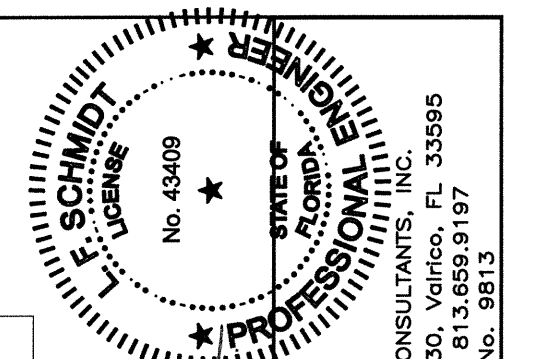
**CONCRETE ANCHOR NOTES:**

- 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"
ELCO 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.



Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409  
7.23.15  
R.W.

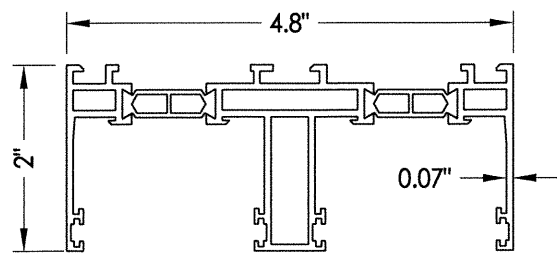
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT:	SMARTGLASS	
PART OR ASSEMBLY:	BUCK AND FRAME ANCHORING	
NO.	DATE	BY
1	04/22/15	JK
UPDATE TO 5TH ED. (2014) FBC		
REVISIONS		
DATE:	6/18/12	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-15701.1	
SHEET	4	OF 5

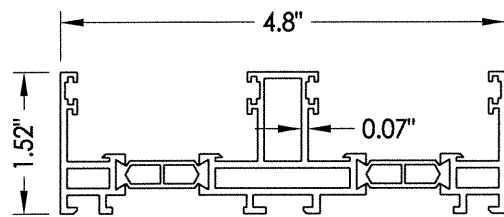
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**BILL OF MATERIALS**

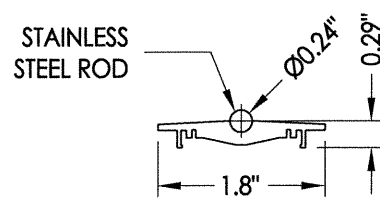
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	-
F	#10 X 3-1/2" PFH SMS (1.25" MIN. EMBEDMENT)	STEEL
G	#10 X 2" PFH SMS	STEEL
H	#8 X 1-1/2" PFH SELF-DRILLING SMS	STEEL
J	1/4" X 4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
K	1/4" X 3-1/4" ELCO OR ITW PFH CONCRETE SCREW	STEEL
L	1/4" X 1-1/2" ELCO 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



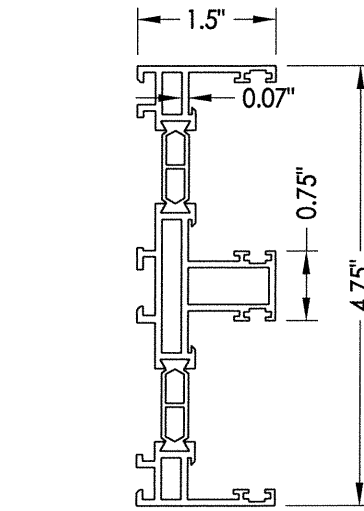
**1 HEAD TRACK**



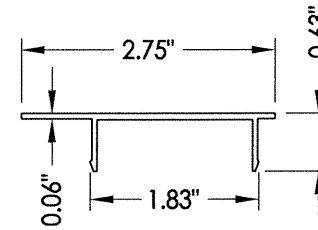
**2 SILL TRACK**



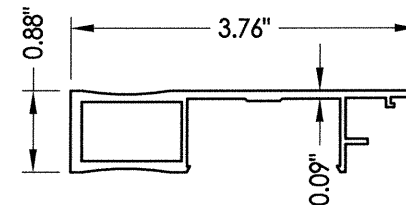
**12 ROLLER TRACK**



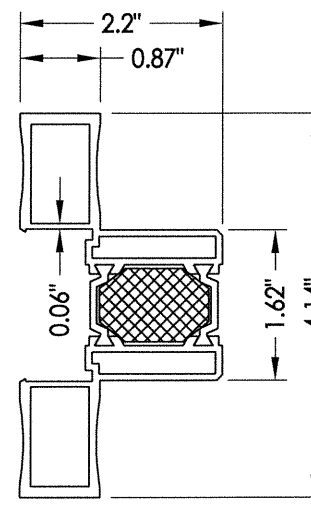
**3 JAMB**



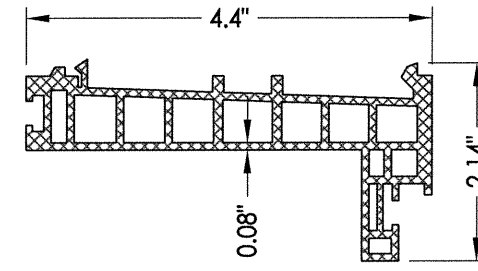
**26 JAMB COVER**



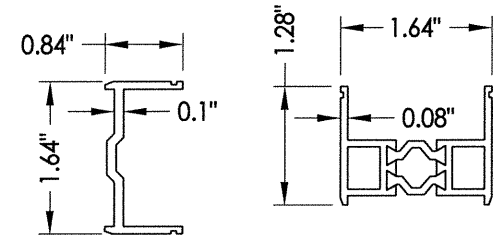
**23 MEETING STILE**



**20 HANDLE BAR**

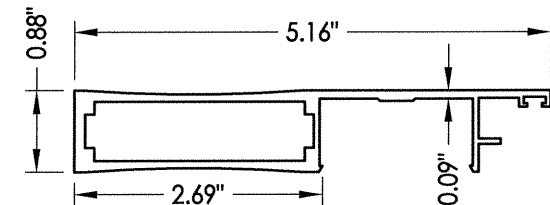


**10 BOTTOM FLANGE**

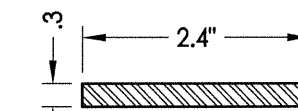


**8 TOP RAIL & STILE**

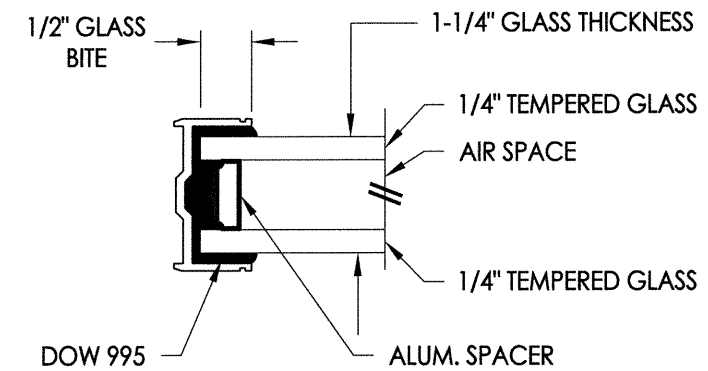
**9 BOTTOM RAIL**



**22 MEETING STILE**



**24 REINFORCEMENT BAR**  
Full height



**G1 GLAZING DETAIL**

**Professional Engineer**  
 F. SCHMIDT  
 License No. 43409  
 State of Florida  
 Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

**Professional Engineer**  
 R.W.  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
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DATE:	6/18/12
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SHEET	5 OF 5

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