

DoersWindow
MANUFACTURING

Series 8000 Model 8400 Double Hung Window

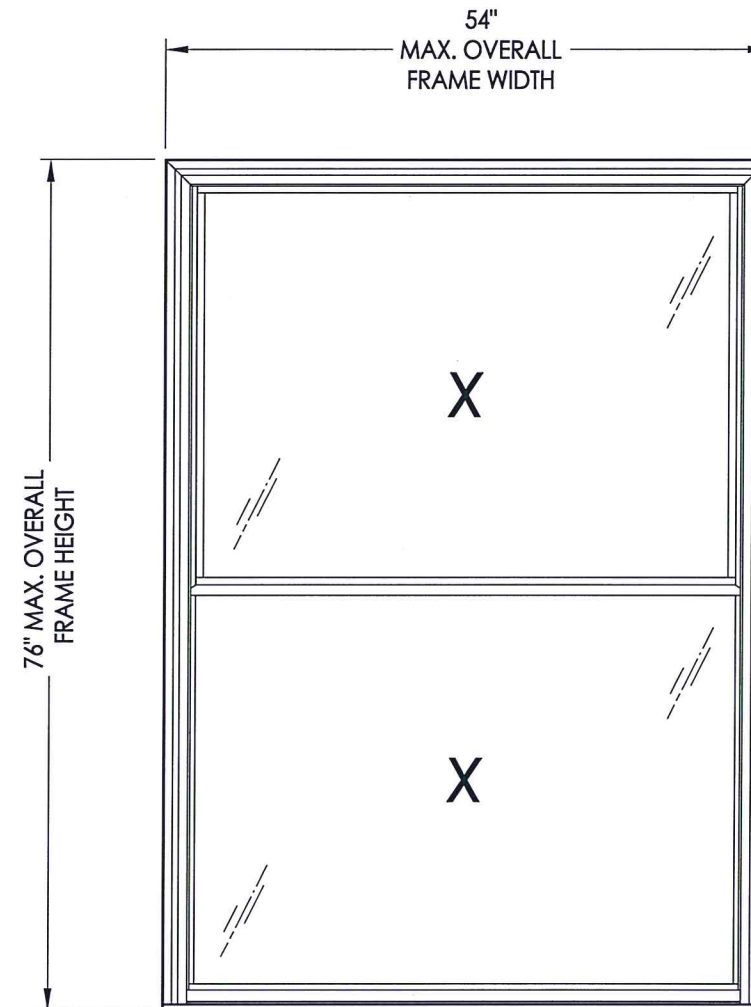
"NON-IMPACT"

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.

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1	Typical elevations, design pressures & general notes
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3	Vertical & horizontal cross sections
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MAX FRAME DIMENSION	MAX D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POS.	NEG.
54.0" X 76.0"	47.87" X 34.25"	G1	+30.0	-40.0

 July 28, 2020 Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		STATE OF FLORIDA PROFESSIONAL ENGINEER BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: DOUBLE HUNG WINDOW		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
DATE: 6/25/19		SCALE: N.T.S.	
DWG. BY: RW		CHK. BY: LFS	
DRAWING NO.: FL-15385.8		SHEET 1 OF 6	
DATE: 6/25/19		SCALE: N.T.S.	
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DRAWING NO.: FL-15385.8		SHEET 1 OF 6	

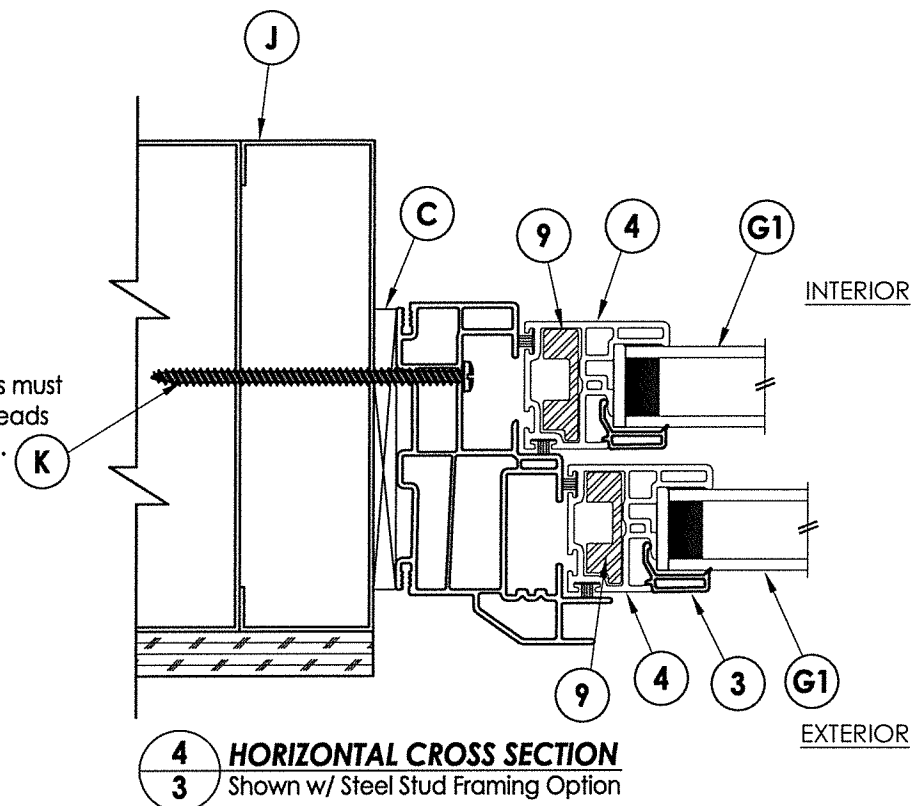
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A detailed cross-sectional diagram of a window assembly. The diagram is divided into two main regions: **EXTERIOR** on the left and **INTERIOR** on the right. The assembly consists of several layers and components, each labeled with a circled number or letter:

- 1**: Points to the exterior frame or sash profile.
- 3**: Points to a component within the exterior frame, possibly a weatherstripping or seal.
- 8**: Points to the interior frame or sash profile.
- 9**: Points to a component within the interior frame, possibly a weatherstripping or seal.
- 15**: Points to a central component, likely the glass pane or a spacer bar.
- 16**: Points to a component on the exterior side of the glass, possibly a secondary seal or insulating layer.
- 30**: Points to a component on the interior side of the glass, possibly a secondary seal or insulating layer.
- E**: Points to a thick, textured layer at the bottom, representing the building's substrate or foundation.
- G1**: Points to a vertical element at the top, possibly a hinge or a structural support.

The diagram illustrates the complex layering and sealing of the window assembly to ensure energy efficiency and weather resistance.

NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through 2 sheets of metal.



EXTERIOR

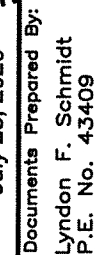
INTERIOR

1, 3, 8, 9, 15, 16, 30

E, G1

This technical cross-section diagram illustrates a window frame assembly. The diagram is divided into two main sections: 'EXTERIOR' on the left and 'INTERIOR' on the right. The assembly consists of multiple layers and components, each identified by a numbered callout (1 through 30) or a lettered callout (E, G1). The exterior side (left) shows a thick, multi-layered frame structure. The interior side (right) shows a similar but more complex structure, including a central pane or glass unit. The bottom of the diagram shows a cross-section of the building's structural material, likely concrete or masonry, with a sloped surface on the exterior side. The diagram is a detailed line drawing showing the internal structure and components of the window frame.

3 VERTICAL CROSS SECTION
3 Masonry sill



PRODUCT: DOUBLE HUNG WINDOW

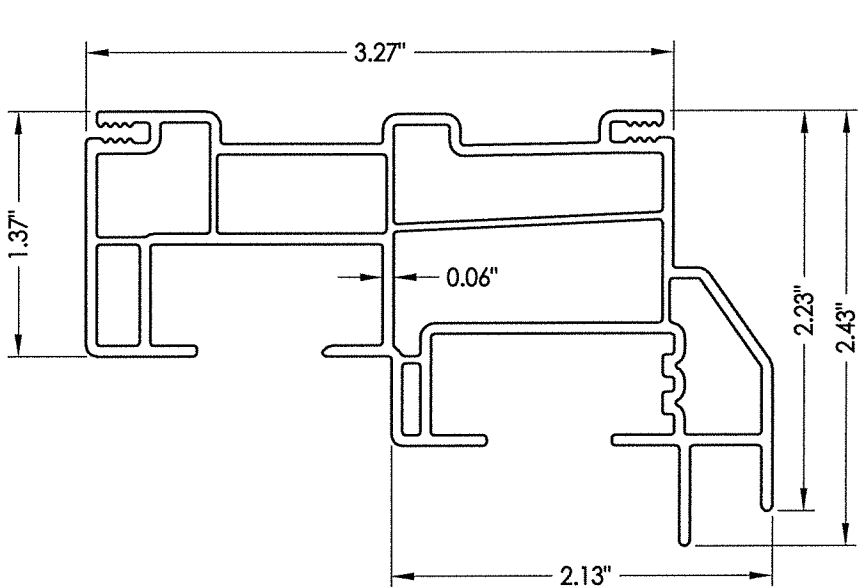
OR ASSEMBLY:
VERTICAL & HORIZONTAL
CROSS SECTIONS

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Phone No.: 813.659.9197
FBPE Registry No. 9813

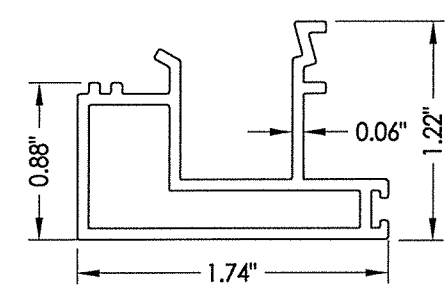
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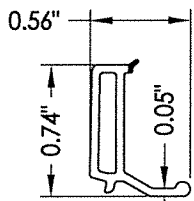
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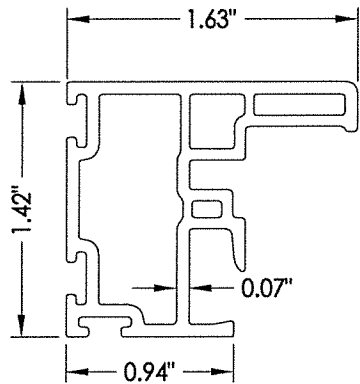
1 FRAME



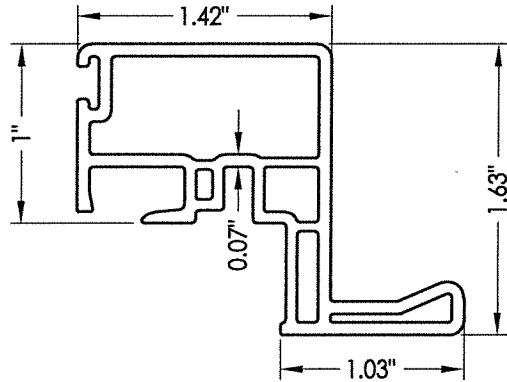
2 HEAD ADAPTER



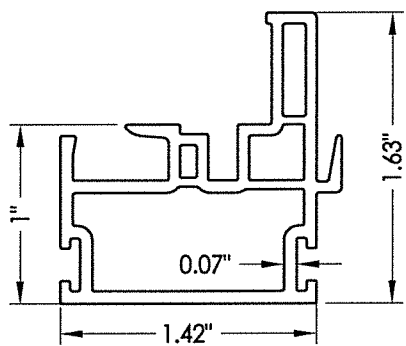
3 GLAZING BEAD



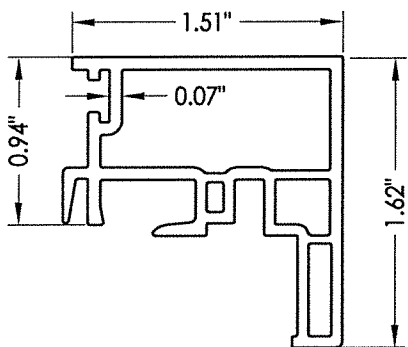
4 STILE



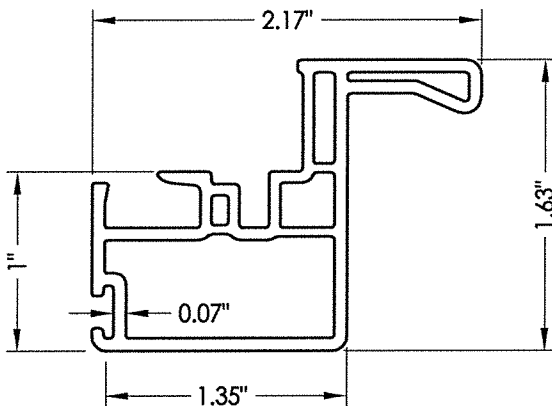
5 PULL RAIL



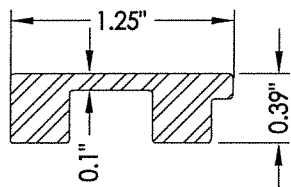
6 KEEPER RAIL



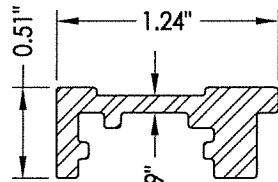
7 LOCK RAIL



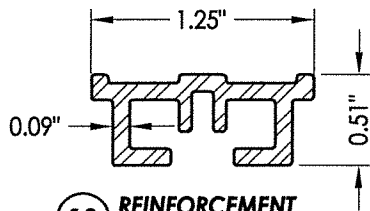
8 LIFT RAIL



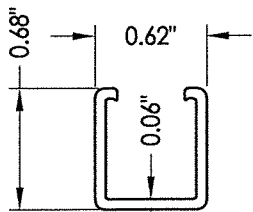
9 REINFORCEMENT
(STILES)



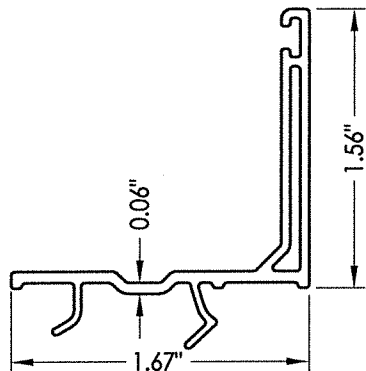
12 REINFORCEMENT
(TOP RAILS)



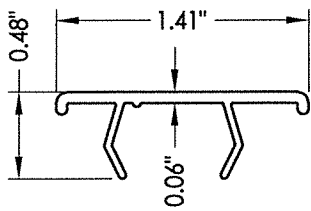
13 REINFORCEMENT
(BOTTOM RAILS)



10 INTERLOCK CLIP



15 SILL ADAPTER



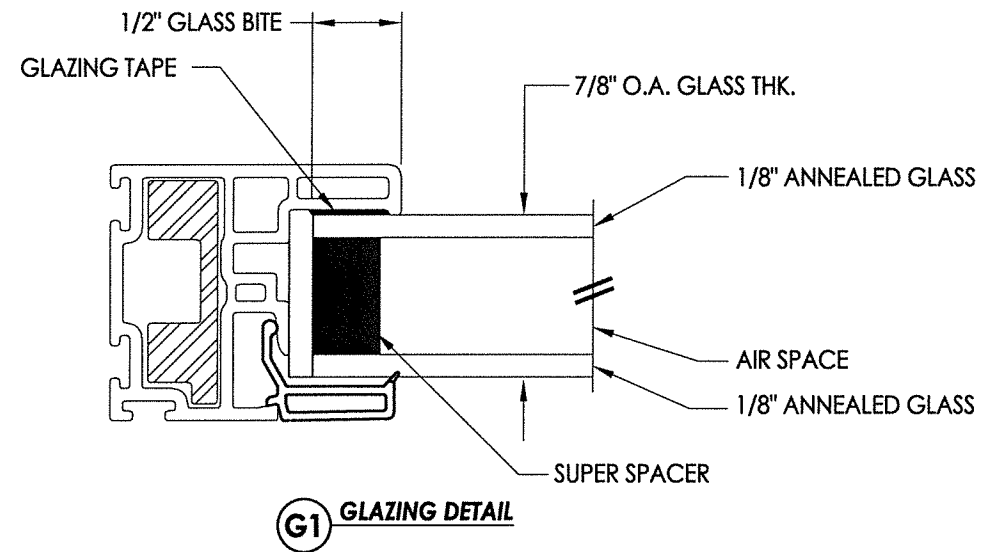
16 SILL CAP

Professional Engineer
F. SCHMIDT
No. 43409
July 28, 2020
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		DOUBLE HUNG WINDOW	
PART OR ASSEMBLY:		COMPONENTS	
DATE:		7/28/20	7/28/20
SCALE:		N.T.S.	N.T.S.
DWG. BY:		RW	RW
CHK. BY:		LFS	LFS
DRAWING NO.:		FL-15385.8	FL-15385.8
SHEET		5	OF 6

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	3/8 MAX. SHIM SPACE	STEEL
D	1/4" X 2-3/4" PFH ELCO 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	#8 X 2-1/2" MODIFIED TRUSS HEAD SCREW (7/16"Ø HEAD) (1-1/2" MIN. EMBEDMENT)	STEEL
J	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 ksi min., Fu=45 ksi min.)	STEEL
K	#10 MODIFIED TRUSS HEAD SCREW (7/16" Ø HEAD) SELF-DRILLING SMS	STEEL
M	1/4" X 2-3/4" HH ELCO OR ITW CONCRETE SCREW	STEEL
1	FRAME*	PVC
2	HEAD ADAPTER*	PVC
3	GLAZING BEAD*	PVC
4	STILE *	PVC
5	PULL RAIL (TOP SASH)*	PVC
6	KEEPER RAIL (TOP SASH)*	PVC
7	LOCK RAIL (BOTTOM SASH)*	PVC
8	LIFT RAIL (BOTTOM SASH)*	PVC
9	REINFORCEMENT (6065-T5 ALUM)	ALUM
10	INTERLOCK CLIP	STEEL
11	#6 X 1/2" PPH SMS	STEEL
12	REINFORCEMENT (6065-T5 ALUM)	ALUM
13	REINFORCEMENT (6065-T5 ALUM)	ALUM
15	SILL ADAPTER*	PVC
16	SILL CAP*	PVC
21	KEEPER - TRUTH #C41275	-
22	LOCK ASSEMBLY - TRUTH #A30700401	-
30	CENTER FIN PILE (0.187" X 0.190")	-
31	CENTER FIN PILE (0.270" X 0.220")	-

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



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PRODUCT:			
DOUBLE HUNG WINDOW			
PART OR ASSEMBLY:			
BILL OF MATERIALS & GLAZING DETAILS			
			LFS BY
1	7/28/20	UPDATE TO 7TH ED (2020) FBC	
NO.	DATE	REVISIONS	
DATE: 6/25/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
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SHEET	6	OF	6

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