## FLORIDA DEPARTMENT OF Business & Professional Regulation



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Product Approval USER: Public User

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Product Approval Menu > Product or Application Search > Application	<u>1 List</u> > Application Detail	
FL #	FL17727-R1	
Application Type	Revision	
Code Version	2017	
Application Status	Approved	
Comments		
Archived		
Product Manufacturer	La Finestra, LC	
Address/Phone/Email	2790 NW 104th Court	
Address/Thone/Email	Miami, FL 33172	
	(305) 599-8093	
	brunosalvoni@lafinestra.us	
Authorized Signature	Bruno Salvoni	
	brunosalvoni@lafinestra.us	
Technical Representative		
Address/Phone/Email		
Quality Assurance Representative		
Address/Phone/Email		
Category	Windows	
Subcategory	Fixed	
Compliance Method	Evaluation Report from a Florida Registered Archit	tect or a Licensed
	Florida Professional Engineer	
	Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed	Frank L. Bennardo, P.E.	
the Evaluation Report		
Florida License	PE-0046549	
Quality Assurance Entity	National Accreditation and Management Institute	
Quality Assurance Contract Expiration Date	04/30/2018	
Validated By	Troy Bishop, P.E.	
	Validation Checklist - Hardcopy Received	
Certificate of Independence	FL17727 R1 COI Indep.pdf	
Referenced Standard and Year (of Standard)	<u>Standard</u>	Year
	ASTM E1886	2013
	ASTM E1996	2014
	ASTM E283	2004
	ASTM E330	2014
	ASTM E331	2000
	TAS 201	1994

TAS 202

TAS 203

Equivalence of Product Standards

Certified By

Sections from the Code

Method 1 Option D					
12/18/2017					
12/18/2017					
12/22/2017					
02/13/2018					

#### Summary of Products

FL #	Model, Number or Name	Description					
17727.1	Classica Series 69 Fixed Window	Classica Series 69 Fixed Window					
	s <b>side HVHZ:</b> Yes s	Installation Instructions FL17727 R1 II Dwg.pdf Verified By: Frank L. Bennardo, P.E. PE0046549 Created by Independent Third Party: Yes Evaluation Reports FL17727 R1 AE Eval.pdf Created by Independent Third Party: Yes					

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ENGINEERING EXPRESS<sup>®</sup> PRODUCT EVALUATION REPORT

### **Product Evaluation Report**

December 18, 2017

Application Number: EX Project Number: FL#<u>17727.1-R1</u> 17-3995

Product Manufacturer: Manufacturer Address: La Finestra, LC 2790 NW 104<sup>TH</sup> Court. Miami, FL 33172

Product Name & Description:

Classica Series 69 Fixed Window Large & Small Missile Impact Resistant

#### Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1(d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with the Florida Building Code Sixth Edition (2017) and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

#### Substantiating Data:

#### PRODUCT EVALUATION DOCUMENTS

EX drawing #17-3995 titled "Classica Series 69 Fixed Window", sheets 1-8, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

#### <u>TEST REPORTS</u>

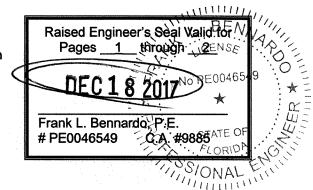
Uniform static structural performance has been tested in accordance with TAS 202 test standards per test report(s) HETI-08-2006, HETI-08-2017 by Hurricane Engineering and Testing, Inc. and FTL-4905, FTL-4997, FTL-5104 by Fenestration Testing Lab, Inc.

Large missile impact resistance and cyclic loading performance have been tested in accordance with TAS 201 & 203 test standards per test report(s) HETI-08-2007, HETI-08-2012, HETI-08-2013, HETI-08-2018, HETI-08-2009, HETI-08-2019, by Hurricane Engineering and Testing, Inc. and FTL-4905, FTL-4997, FTL-5104 by Fenestration Testing Lab, Inc.

#### STRUCTURAL ENGINEERING CALCULATIONS

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

- 1. Anchor Spacing
- 2. Maximum Allowable Size/Pressure Combinations
- 3. Glass Capacity
- 4. Anchor Capacity



160 SW 12<sup>th</sup> Avenue Suite 106, Deerfield Beach, Florida 33442 Phone: (954) 354-0660 - Fax: (954) 354-0443 EngineeringExpress.com

VAPROJECTS117-3005 SERIES 00 FIXED WINDOW TEST PROGRAM AND PRODUCT APPROVAL REVISION/01/2017 FBCISUBMITTAL DOCS117-30068\_FSA - PRODUCT EVAL REPORT\_2.DOC

ENGINEERING EXPRESS®

La Finestra, LC - Classica Series 69 Fixed Window

December 18, 2017

Page 2 of 2

No 33% increase in allowable stress has been used in the design of each product.

The following are approved for use in the HVHZ as specified in their corresponding NOAs:

- SentryGlas Interlayer by Kuraray America, Inc. (NOA# 14-0916.11)
- Trosifol Ultraclear, Clear and Color PVB by Kuraray America, Inc. (NOA# 16-1117.01)
- Saflex Clear and Color Glass Interlayer by Eastman Chemical Co. (NOA# 17-0712.05)

#### Impact Resistance:

Large and Small Missile Impact Resistance has been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

#### Wind Load Resistance

Each product has been designed to resist wind loads as indicated in the design schedule(s) on its respective Product Evaluation Document (i.e. engineering drawing).

#### Installation

Each product listed above shall be installed in strict compliance with its respective Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

Each product component shall be of the material specified in that product's respective Product Evaluation Document (i.e. engineering drawing).

#### Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Product Evaluation Document (i.e. engineering drawing) as noted herein.

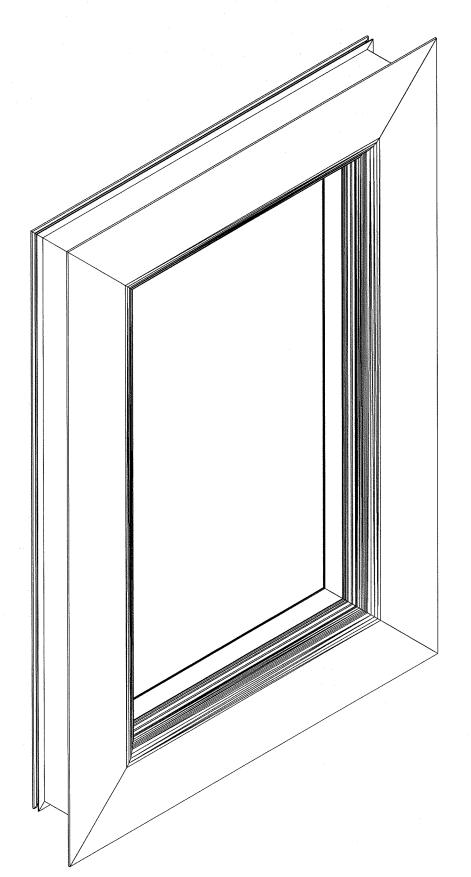
All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

Each product has been designed for use within and outside of the High Velocity Hurricane Zone (HVHZ).

# LA FINESTRA, LC CLASSICA SERIES 69 FIXED WINDOW

MISSILE LEVEL "D" IMPACT RESISTANT



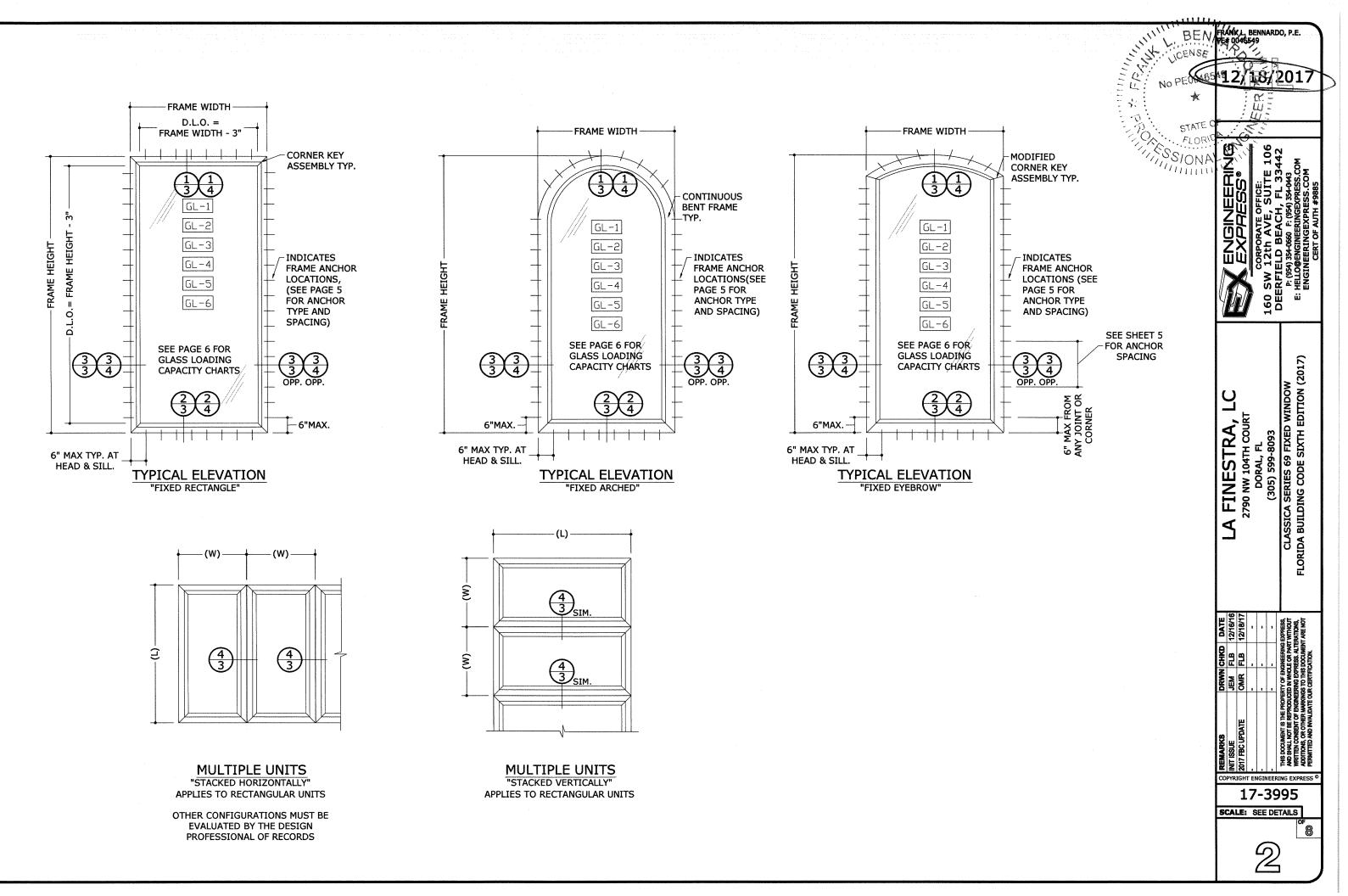
SHEE	SHEET INDEX								
# SHEET	DESCRIPTION								
1	COVER SHEET								
2	ELEVATION								
3	ANCHORING SECTIONS								
4	ANCHORING SECTIONS								
5	ANCHOR SCHEDULES								
6	LOADING TABLES								
7	EXTRUSIONS								
8	BILL OF MATERIALS								
8	TOTAL								

#### **GENERAL NOTES:**

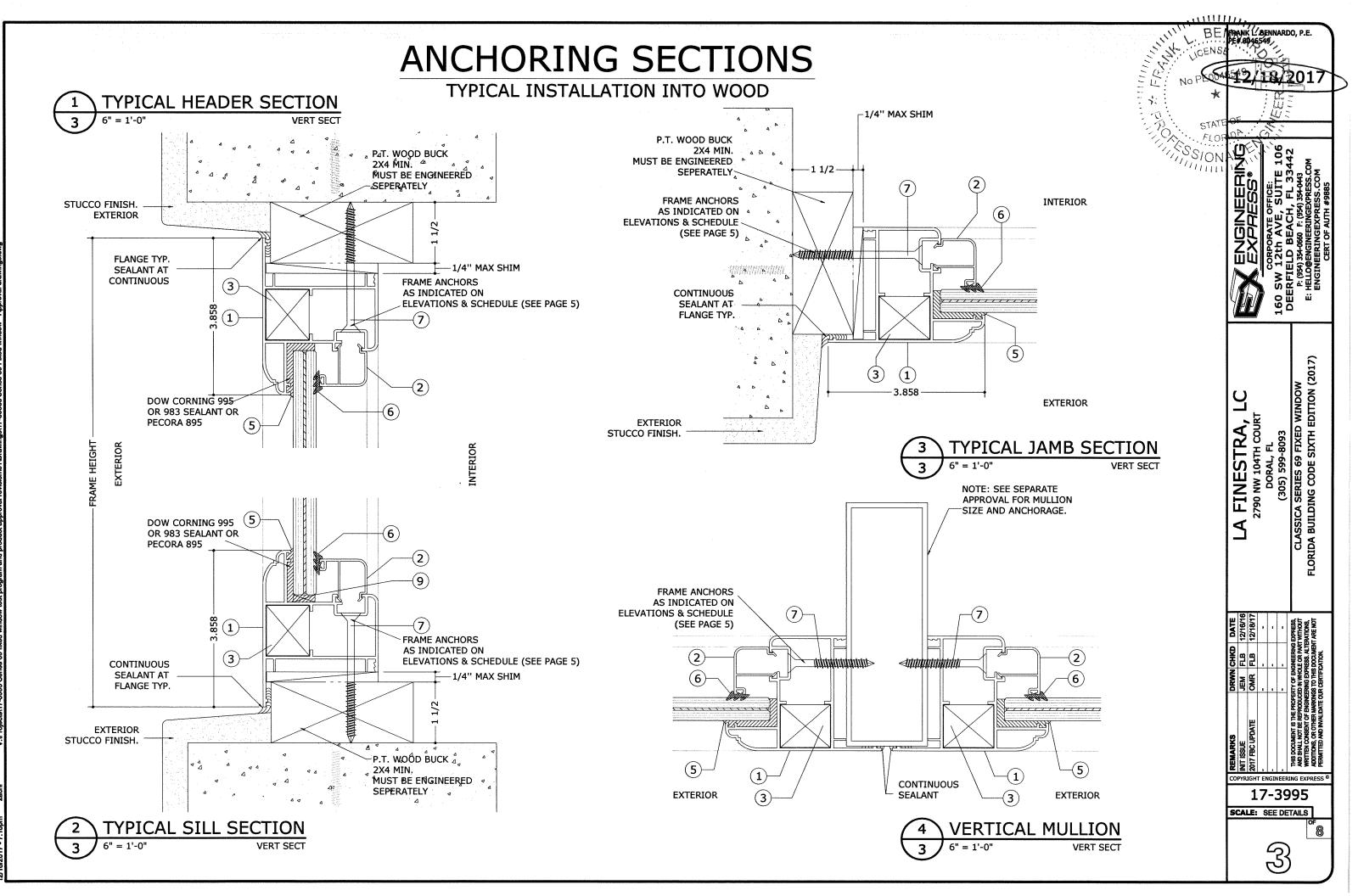
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- 3-THIS SYSTEM IS LARGE MISSILE IMP/ RESISTANT SHUTTERS.
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- 6-THE SYSTEM DETAILED HEREIN IS GENI SPECIFIC SITE. FOR SITE CONDITIONS DI LICENSED ENGINEER OR REGISTERED AR FOR USE IN CONJUNCTION WITH THIS DOC
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- 11-ENGINEER SEAL AFFIXED HERE TO VALID THIS SPECIFICATION BY CONTRACTOR, et. FOR ALL COST & DAMAGES INCLUDING MATERIAL FABRICATION, SYSTEM ERECT WHICH IS CALLED FOR BY LOCAL, STATE, &
- 12-EXCEPT AS EXPRESSLY PROVIDED AFFIRMATIONS ARE INTENDED.
- 13- ALTERATIONS, ADDITIONS, OR OTHER AND INVALIDATE THIS CERTIFICATION.
- 14-SAFEGUARDS MUST BE OBSERVED (NOT 15- THIS DOCUMENT DOES NOT ADDRESS AN

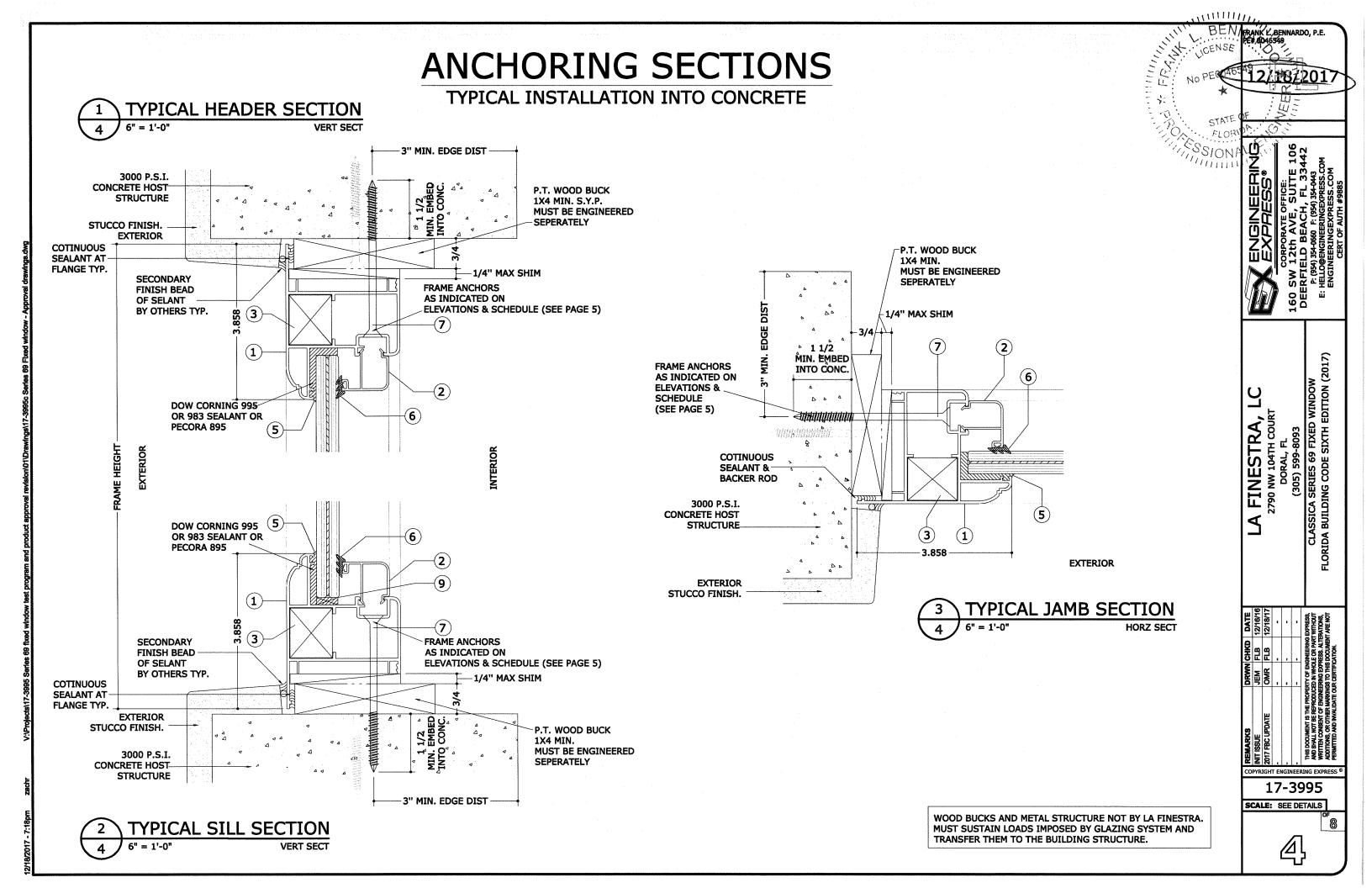
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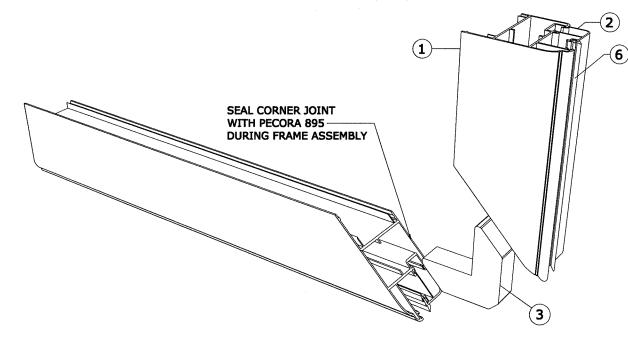


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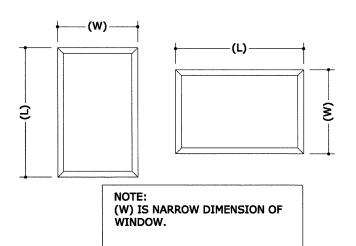
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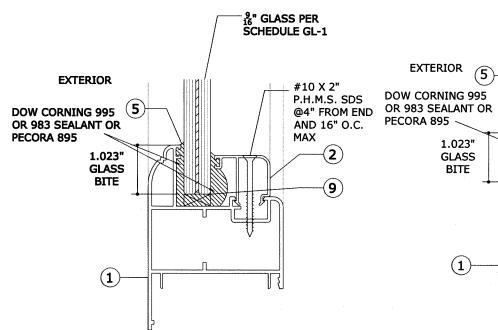
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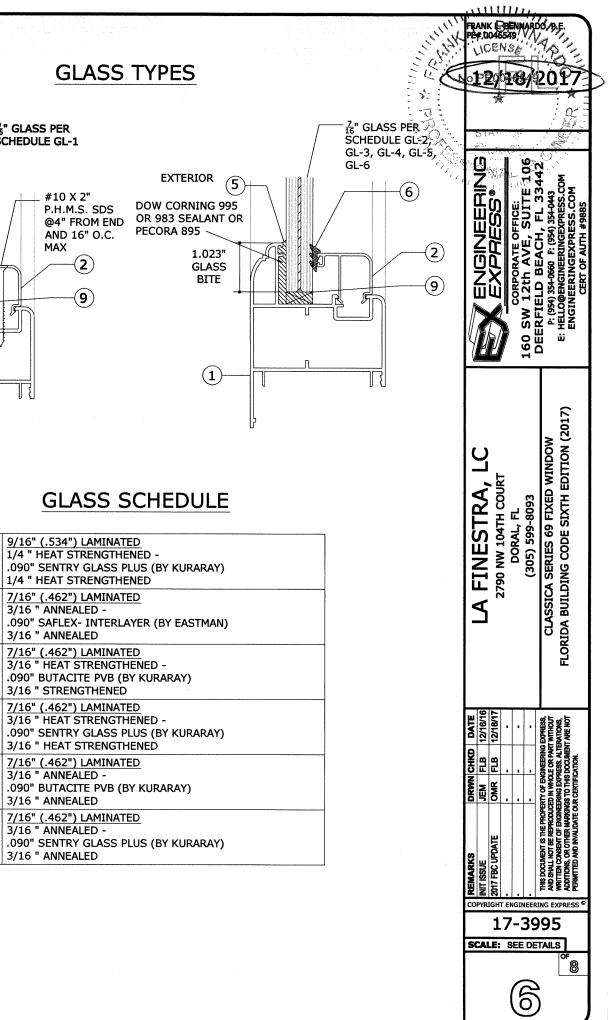


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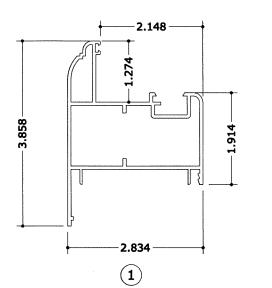
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	93"	60	70	$\langle \rangle$	/	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$
	30"	120	120	75	85	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$
121 3/4"	36"	120	120	75	85	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$
121 3/4	42*	120	120	$\Lambda$ 7	$\setminus$ 7	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$
	49 5/8"	120	120	$  \setminus /  $	$  \setminus /$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\geq$	$\triangleright$	$\geq$
	60"	73	83	1 X I	X	$\bowtie$	$\triangleright$	$\triangleright$	$\triangleright$	$\triangleright$	$\bowtie$	$\bowtie$	$\bowtie$
121 1/2"	72"	64	74	/ \	$  / \rangle$	$\triangleright$	$\triangleright$	$\supset$	$\searrow$	$\bowtie$	$\searrow$	$\supset$	$\geq$
		60	70	1/ \		$\sim$	$\sim \rightarrow$	$\sim \rightarrow$	$\sim \rightarrow$	$\sim$	*~~~>	≝	r<

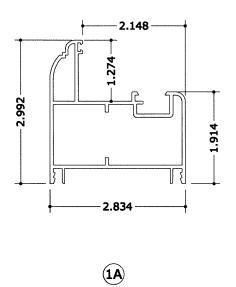
	GLASS SCHED
GL-1	9/16" (.534") LAMINATED 1/4 " HEAT STRENGTHENED - .090" SENTRY GLASS PLUS (BY KU 1/4 " HEAT STRENGTHENED
GL-2	7/16" (.462") LAMINATED 3/16 " ANNEALED - .090" SAFLEX- INTERLAYER (BY EA 3/16 " ANNEALED
GL-3	7/16" (.462") LAMINATED 3/16 " HEAT STRENGTHENED - .090" BUTACITE PVB (BY KURARAY 3/16 " STRENGTHENED
GL-4	7/16" (.462") LAMINATED 3/16 " HEAT STRENGTHENED - .090" SENTRY GLASS PLUS (BY KUI 3/16 " HEAT STRENGTHENED
GL-5	7/16" (.462") LAMINATED 3/16 " ANNEALED - .090" BUTACITE PVB (BY KURARAY 3/16 " ANNEALED
GL-6	7/16" (.462") LAMINATED 3/16 " ANNEALED -



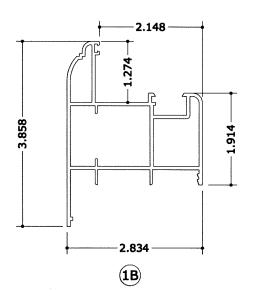


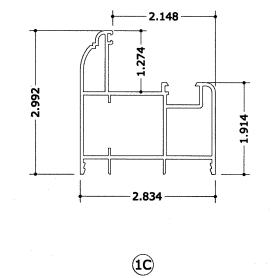
EXTRUSIONS





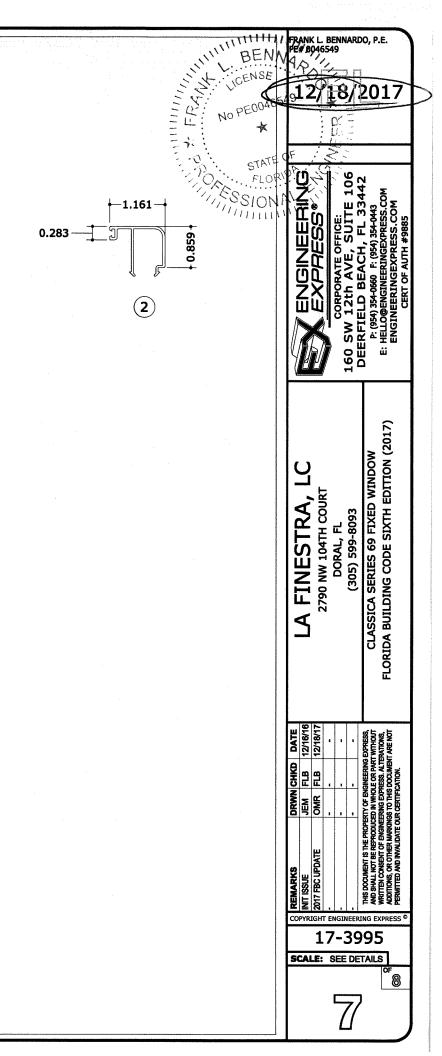
6





3.465 987 100 1.236

NOTE: ALL ALUMINUM EXTRUSIONS TO BE 6063-T5 U.N.O.



## PARTS LIST

	PART #	DESCRIPTION	MATERIAL	REMARKS
1	16669	FRAME HEAD/SILL/JAMB "W/ FLANGE"	6063-T5	GRUPPO PROFILATI SPA
1A	16669A	FRAME HEAD/SILL/JAMB "W/0 FLANGE"	6063-T5	GRUPPO PROFILATI SPA
1B	16669B	FRAME HEAD/SILL/JAMB "W/ FLANGE"	6063-T5	GRUPPO PROFILATI SPA
1C	16669C	FRAME HEAD/SILL/JAMB "W/0 FLANGE"	6063-T5	GRUPPO PROFILATI SPA
2	4196	GLASS BEAD	6063-T5	GRUPPO PROFILATI SPA
3	5004	FRAME CORNER KEY	-	BY MONTICELLI OR EQUAL
4	110-3578	.325" METALLIC PIN (2 EA. CORNER)	-	
5	PECORA 895	SILICON FOR GLAZING	SILICONE	BY PECORA
6	V-10	GLAZING WEDGE GASKET	RUBBER	-
7	N/A	#14x3 1/4" F.H.S.M.S. OR 1/4" DIA. T.	STEEL	FRAME ANCHOR SCREW
8	190 10/20	ARCH CORNER KEY	-	BY MONTICELLI OR EQUAL
9	N/A	SETTING BLOCK	85+/-5 SHORE A	@ ¼ POINTS

