



Product Approval
USER: Public User

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OFFICE OF THE SECRETARY

FL #	FL19605-R1	
Application Type	Revision	
Code Version	2017	
Application Status	Approved	
Comments		
Archived	<input type="checkbox"/>	
Product Manufacturer	La Finestra, LC	
Address/Phone/Email	2790 NW 104th Court 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	Casement	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	Frank L. Bennardo, P.E.	
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. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received	
Certificate of Independence	FL19605 R1 COI Indep.pdf	
Referenced Standard and Year (of Standard)	Standard	Year
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994
Equivalence of Product Standards Certified By		
Sections from the Code		

Product Approval Method

Method 1 Option D

Date Submitted 10/19/2017
Date Validated 10/20/2017
Date Pending FBC Approval 10/24/2017
Date Approved 12/12/2017

Summary of Products

FL #	Model, Number or Name	Description
19605.1	Futura Series Casement/Fixed Window	"Slim Profile" Large Missile Impact Resistant - Level "D"
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +75/-80 Other:		Installation Instructions FL19605_R1_II_Dwg.pdf Verified By: Frank L. Bennardo, P.E. PE-0046549 Created by Independent Third Party: Yes Evaluation Reports FL19605_R1_AE_Eval.pdf Created by Independent Third Party: Yes

[Back](#) [Next](#)

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Product Approval Accepts:



**ENGINEERING EXPRESS® EXPERT
PRODUCT EVALUATION REPORT**

October 17, 2017

Application Number: FL#19605.1-R1
EX Project Number: 15-3050Product Manufacturer: La Finestra, LC
Manufacturer Address: 2790 NW 104th Court
Doral, FL 33172Product Name & Description: Futura Series Casement/Fixed Window
"Slim Profile" Large Missile Impact Resistant – Level "D"**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 #15-3050 titled "Futura Series Casement/Fixed Window", sheets 1-6, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

- **TEST REPORTS**

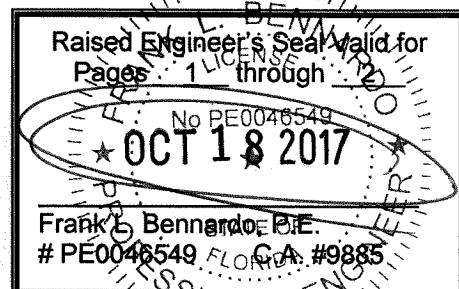
Uniform static structural performance has been tested in accordance with TAS 202 test standards per test report(s) #HETI-15-5110 signed and sealed by Rafael E. Droz-Seda, P.E for Hurricane Engineering and Testing, Inc. (HETI).

Large missile impact resistance and cyclic loading performance have been tested in accordance with TAS 201 & 203 test standards per test report(s) # HETI-15-5111 signed and sealed by Rafael E. Droz-Seda, P.E for Hurricane Engineering and Testing, Inc. (HETI).

- **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

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

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

- Ultraclear, Clear and Color PVB Glass Interlayer by Kuraray America, Inc. (NOA# 16-1117.01)

Impact Resistance:

Large 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

This 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

The 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.

The 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 this 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.

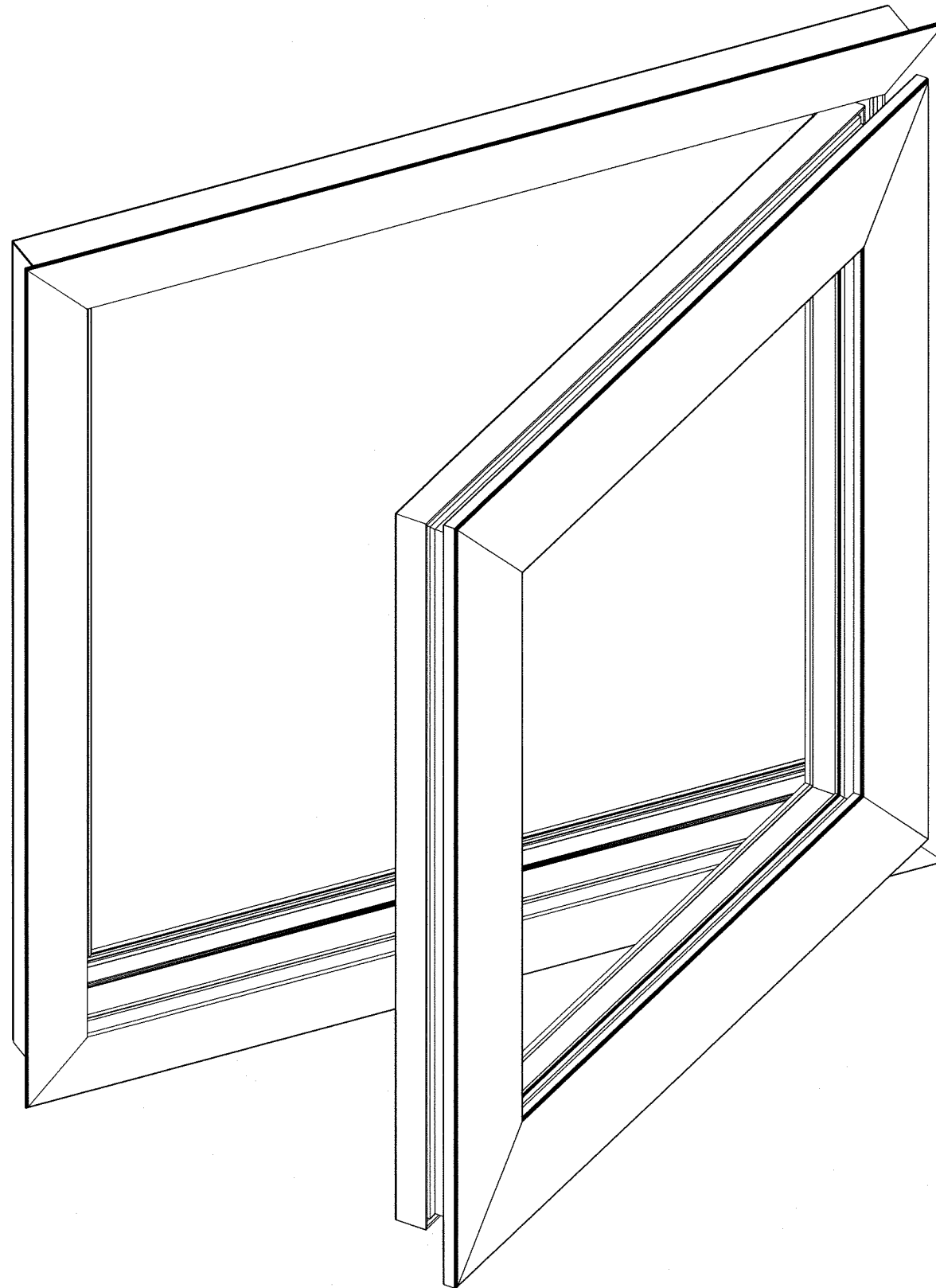
All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

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

LA FINESTRA, LC

FUTURA SERIES CASEMENT/FIXED WINDOW

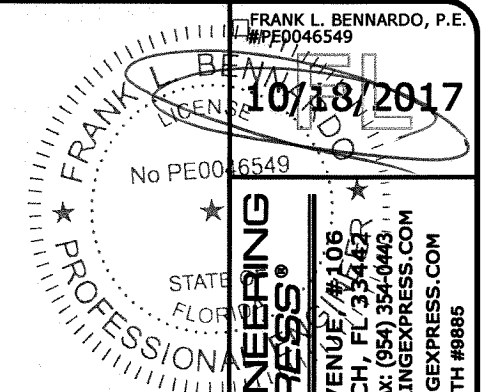
"SLIM PROFILE" LARGE MISSILE IMPACT RESISTANT - LEVEL "D"



GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SIXTH EDITION (2017), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 & ASTM E1300-09 STANDARDS, PER TEST REPORTS, HURRICANE ENGINEERING & TESTING INC LAB REPORT NUMBER HEITI-15-5110 & HEITI-15-5111.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE SPECIFIC LOAD WIND LOAD REQUIREMENTS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7 AND THE FLORIDA BUILDING CODE BY SEPARATE ENGINEERING CERTIFICATION AND SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUE LISTED HEREIN FOR ANY ASSEMBLY WITHIN THE LIMITATIONS STATED HEREIN.
4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
5. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
6. MULTIPLE UNITS MUST BE INSTALLED USING STRUCTURAL MULLIONS APPROVED BY OTHERS OR UNDER SEPARATE CERTIFICATION.
7. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
8. EXTERIOR SEAM OF FRAME CORNERS, INSTALLATION SCREWS, AND GLAZING BEAD ENDS SHALL BE SEALED WITH SILICONE.
9. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.
10. ALL DISSIMILAR MATERIALS SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE FLORIDA BUILDING CODE.
11. GLAZING ILLUSTRATED HEREIN UTILIZES KURARAY BUTACITE PVB INTERLAYER BY KURARAY AMERICA, INC. (NOA# 16-1117.01)
12. APPROVED FOR SMALL AND LARGE MISSILE IMPACT APPLICATIONS. SEE GLASS TYPES FOR ANY RESTRICTIONS
13. ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
15. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
16. ANY SAFEGUARDS OR MEANS OF EGRESS SHALL BE OBSERVED AND ARE NOT IN THIS CERTIFICATION.
17. THIS DOCUMENT DOES NOT ADDRESS ANY ENERGY EFFICIENCY RATING OF THE PRODUCTS.
18. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:
 LA FINESTRA, LC.
 DORAL, FLORIDA
 TAS 201 / 202 / 203
 FLORIDA PRODUCT APPROVAL NUMBER

FL 19605.1



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LA FINESTRA, LC
 2790 NW 104TH COURT
 DORAL, FL
 (305) 599-8093

FLORIDA PRODUCT APPROVAL CASEMENT/FIXED WINDOW
 2790 NW 104TH COURT, MIAMI, FL
 FBC 6TH EDITION (2017) PRODUCT APPROVAL #19605.1

REMARKS	DRWN	CHKD	DATE
INT ISSUE	MC	FLB	12/18/15
FBC (2017) UPDATE	LAO	AJP	10/17/17

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15-3050

SCALE: SEE DETAILS **01**

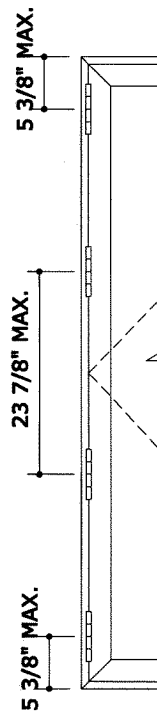
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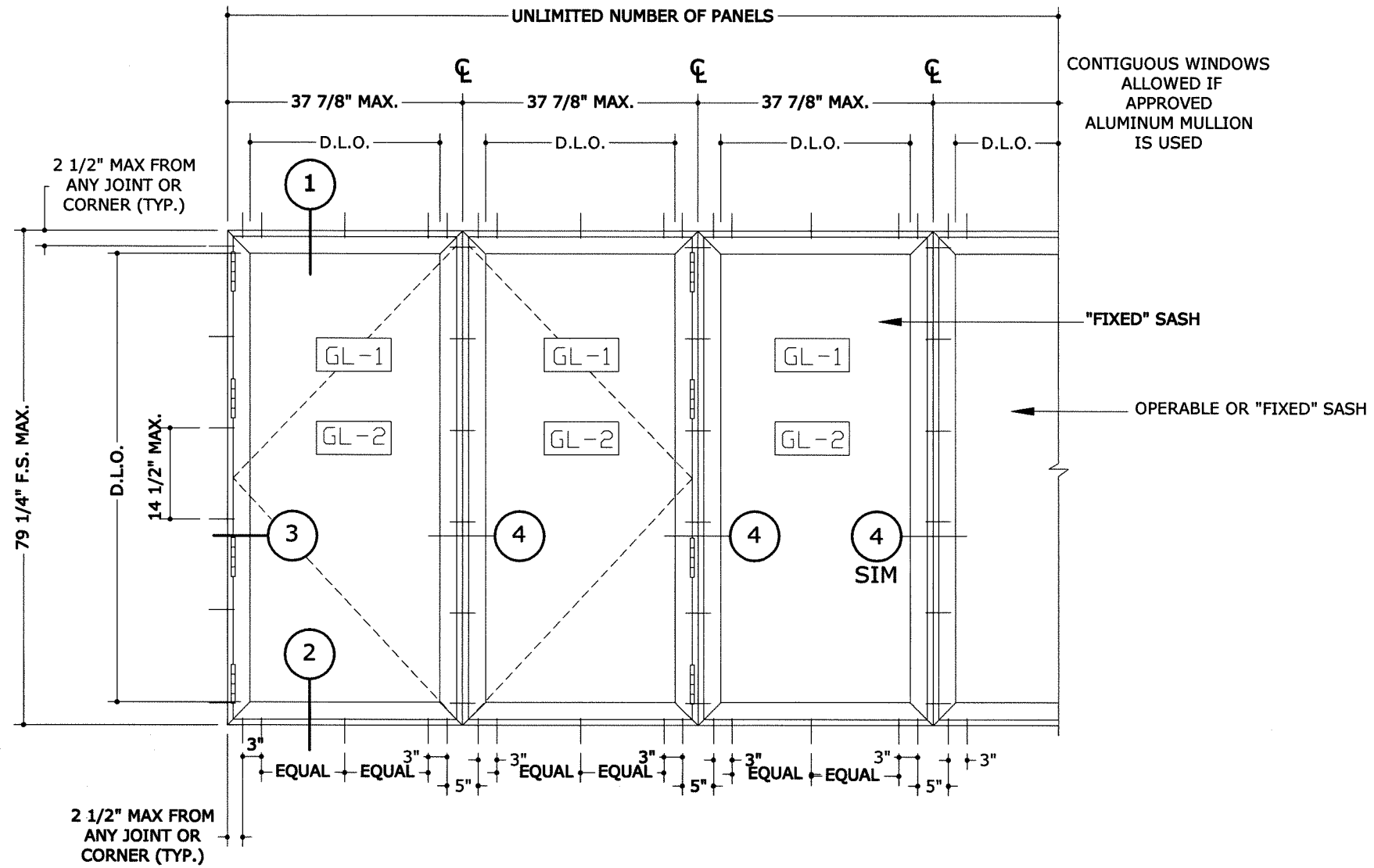
OF 6

V:\Projects\15-3050 Casement - Fixed - FL Statewide Approval\01Drawings\2017 FBC Update\15-3050e La Finestra Casement-Fixed.dwg 10/18/2017 - 4:14pm zachr

V:\Projects\15-3050 Casement - Fixed - FL Statewide Approval\01 Drawings\2017 FBC Update\15-3050e La Finestra Casement-Fixed.dwg 10/18/2017 - 4:14pm zachr



HINGE LAYOUT



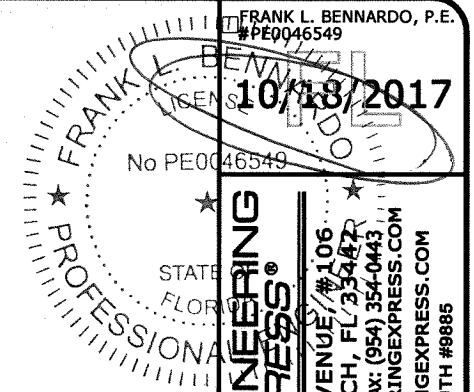
TYPICAL ELEVATION

D.L.O. WIDTH = WINDOW WIDTH - 7 ³/₈"
 D.L.O. LENGTH = WINDOW LENGTH - 7 ¹/₂"

MAX. DESIGN PRESSURES

+75, -80 PSF

GLASS TYPE	
GL-1	7/16" LAMINATED: 3/16" HEAT STRENGTHENED GLASS .090" KURARAY BUTACITE P.V.B. INTERLAYER 3/16" HEAT STRENGTHENED GLASS
GL-2	1 5/16" INSULATED LAMINATED: 3/16" HEAT STRENGTHENED GLASS .090" KURARAY BUTACITE P.V.B. INTERLAYER 3/16" HEAT STRENGTHENED GLASS 1/2" AIR SPACE 1/4" CLEAR TEMPERED GLASS



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FLORIDA PRODUCT APPROVAL CASEMENT/FIXED WINDOW
 2790 NW 104TH COURT, MIAMI, FL
 FBC 6TH EDITION (2017) PRODUCT APPROVAL #19605.1

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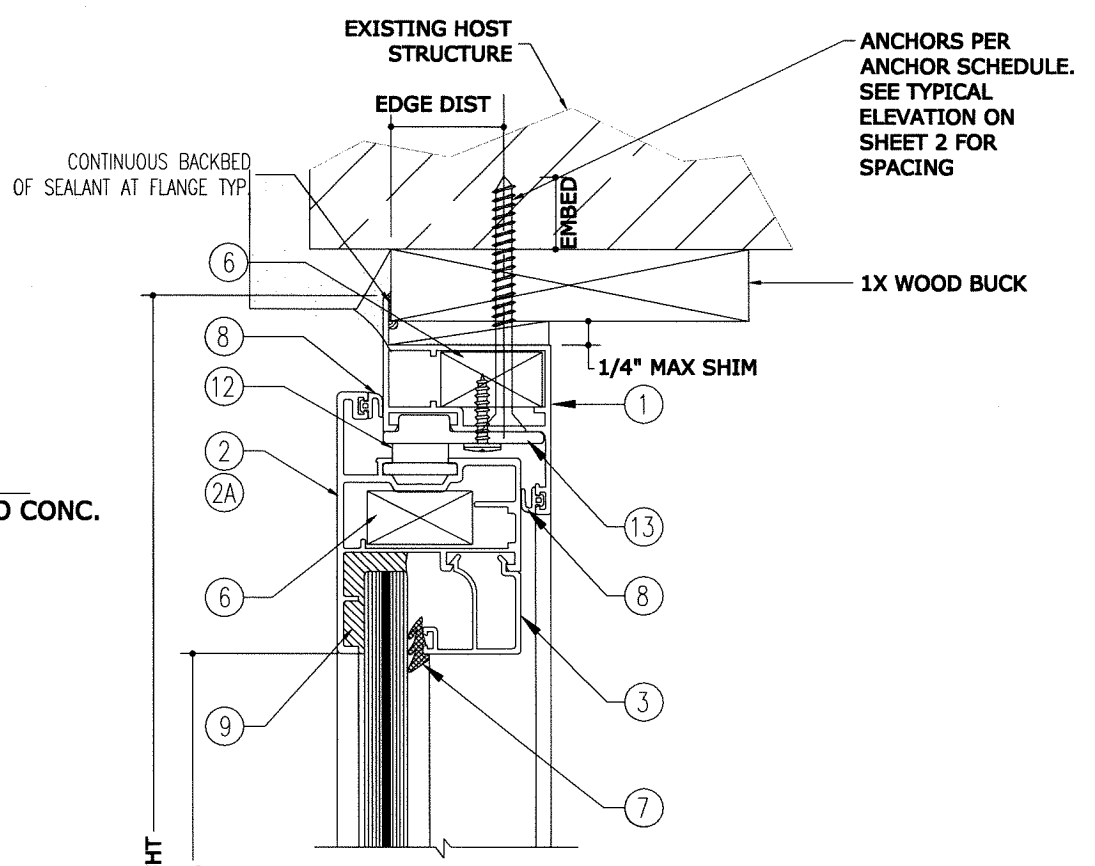
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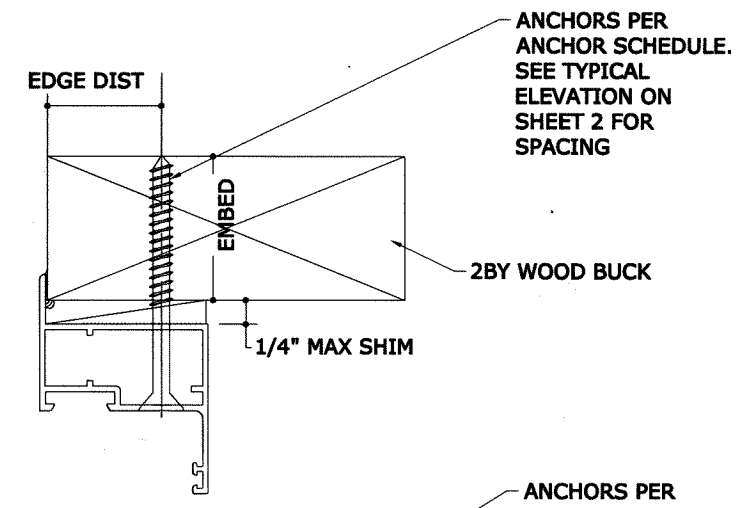
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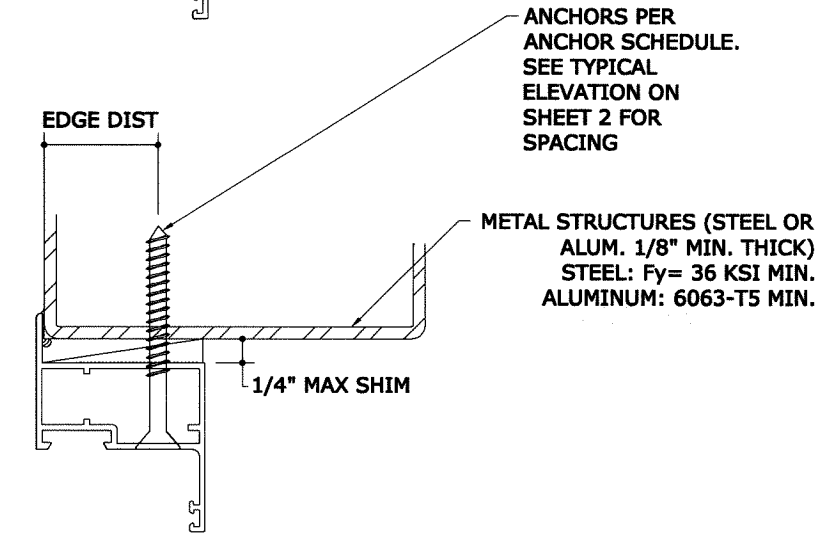
1 HEAD DETAIL THRU WOOD INTO CONC.



1 HEAD DETAIL INTO WOOD



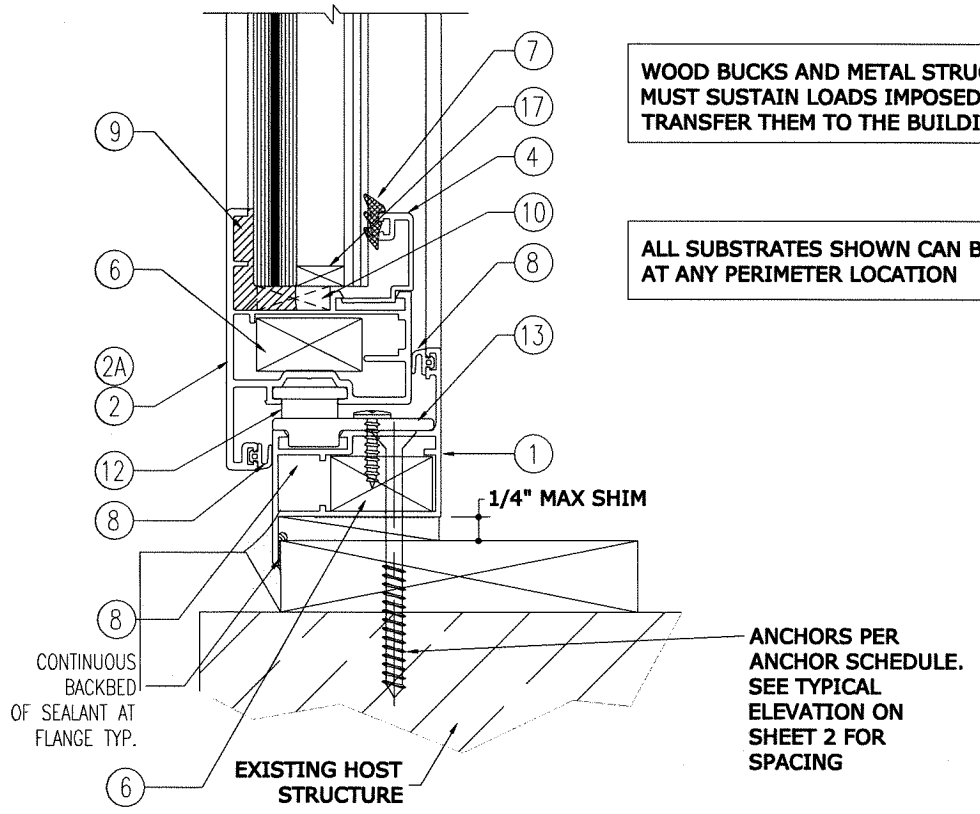
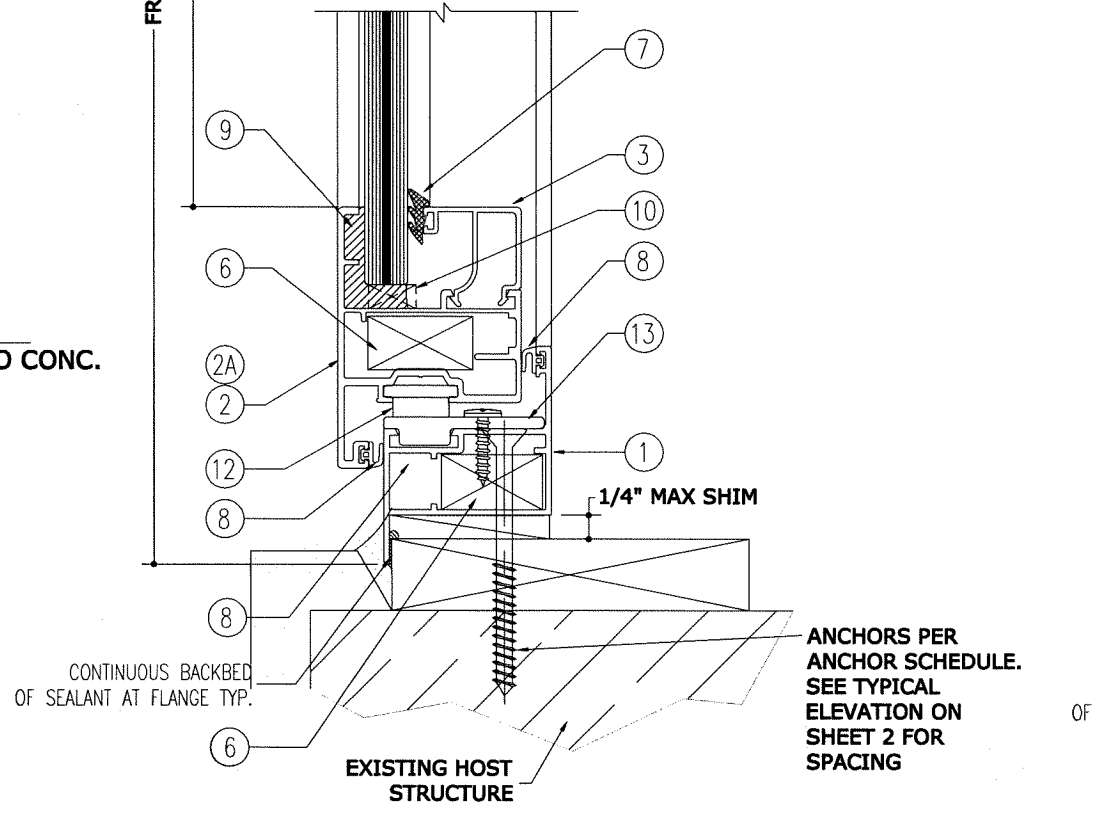
1 HEAD DETAIL INTO METAL



WOOD BUCKS AND METAL STRUCTURE NOT BY LA FINESTRA MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

ALL SUBSTRATES SHOWN CAN BE INTERCHANGEABLE AT ANY PERIMETER LOCATION

2 SILL DETAIL THRU WOOD INTO CONC.



FRANK L. BENNARDO, P.E.
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 10/18/2017
 No. PE0046549
 PROFESSIONAL ENGINEER

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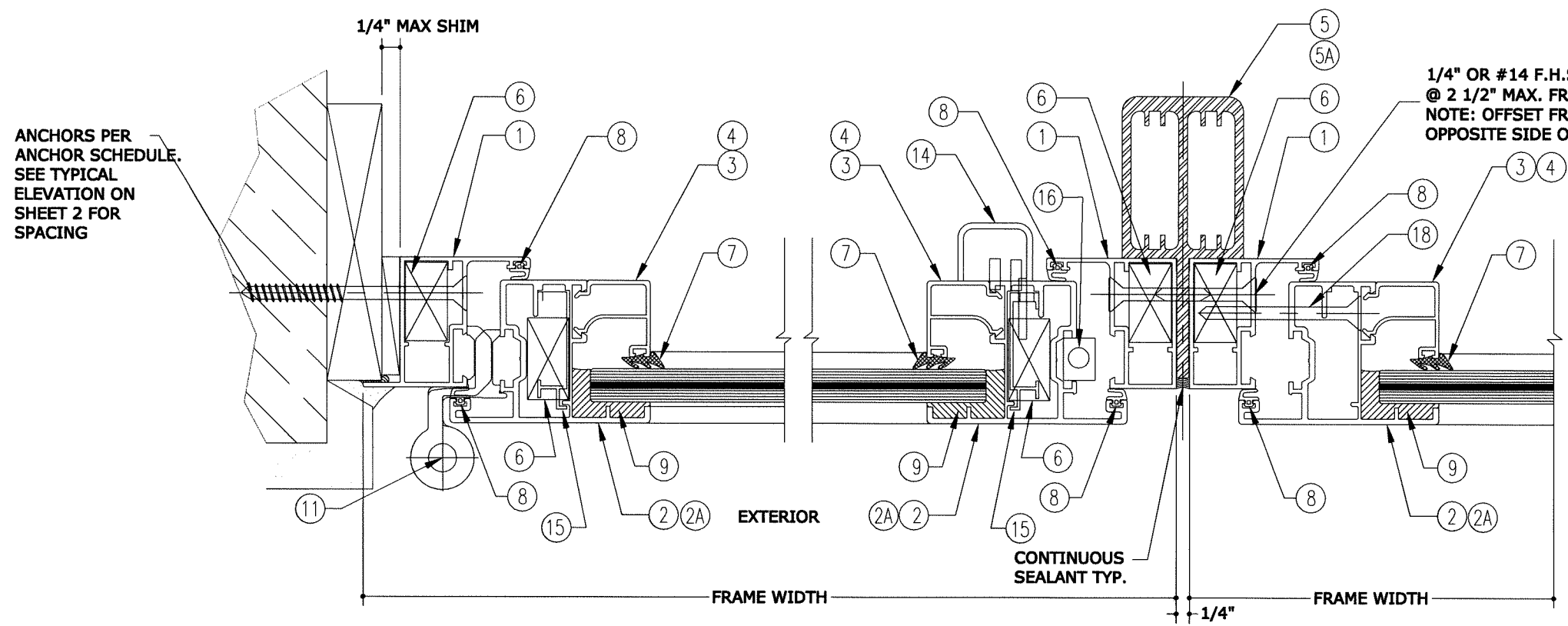
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 2790 NW 104TH COURT, MIAMI, FL
 FBC 6TH EDITION (2017) PRODUCT APPROVAL #19605.1

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1/4" OR #14 F.H.S.M.S.
@ 2 1/2" MAX. FROM ENDS & 14 1/2" O.C. MAX.
NOTE: OFFSET FRAME FASTENERS ON
OPPOSITE SIDE OF MULLION

3 JAMB DETAIL
THRU WOOD INTO CONC.

4 VERTICAL MULLION

TYPICAL ANCHORS: SEE ELEV. ON PAGE 2
FOR SPACING & QUANTITY

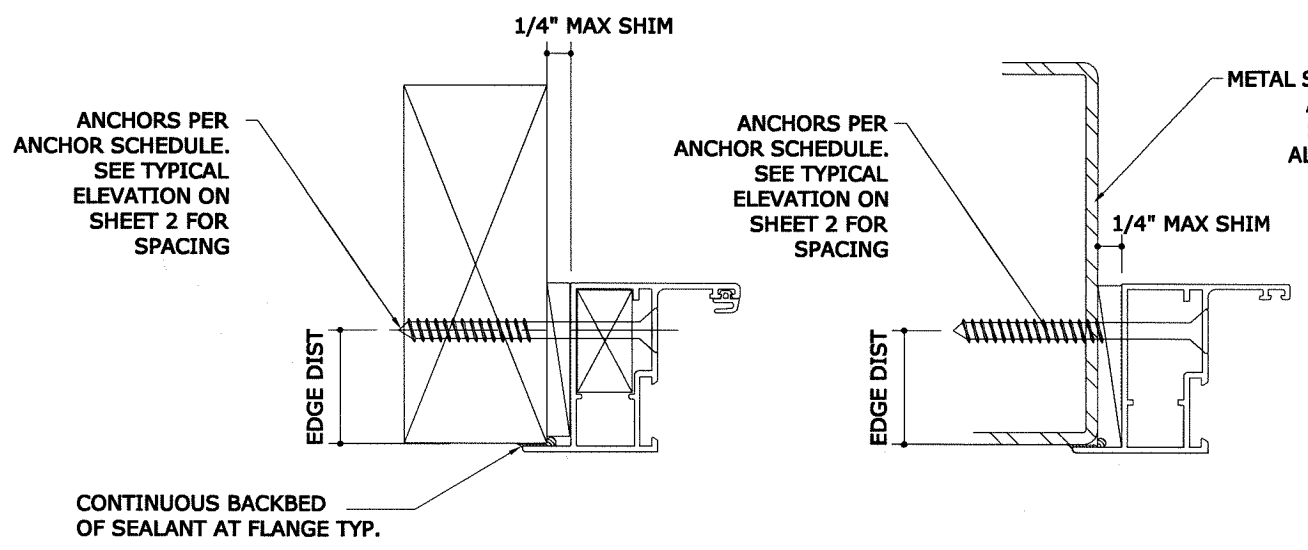
TYPE 'A' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI,
Fy=155 KSI)
THRU 1BY INTO CONCRETE (2846 PSI MIN) OR GROUT
FILLED BLOCK (ASTM C90)
1-3/4" MIN. EMBED INTO CONCRETE OR GROUT FILLED
BLOCK.

TYPE 'B' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI,
Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
(SYP#2 G=0.55 MIN)
1-1/2" MIN. PENETRATION INTO WOOD

TYPE 'C' - 1/4-20 DIA. SHEET METAL SCREW (GRADE 5
MIN) (Fu=120 KSI, Fy=90 KSI)
INTO METAL STRUCTURES (5 PINCHES PASS THE
THREAD PLANE MIN.) STEEL: 1/8" THK. MIN.
(Fy=36 KSI MIN)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED
OR PAINTED)

TYPE 'D' - 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI,
Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
(SYP#2 G=0.55 MIN)
1-1/2" MIN. PENETRATION INTO WOOD

TYPICAL EDGE DISTANCE
INTO CONCRETE/GROUT FILLED BLOCK = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN. (FOR TYPE "B")
INTO WOOD STRUCTURE = 1 1/2" MIN. (FOR TYPE "D")
INTO METAL STRUCTURE = 3/4" MIN.



3 JAMB DETAIL
INTO WOOD

3 JAMB DETAIL
INTO METAL

FRANK L. BENNARDO, P.E.
#PE0046549
10/18/2017
No PE0046549

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FLORIDA PRODUCT APPROVAL CASEMENT/FIXED
2790 NW 104TH COURT, MIAMI, FL
FBC 5TH EDITION (2014) PRODUCT APPROVAL #19605.1

REMARKS	DATE	DRWN	CHKD
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FBC (2017) UPDATE	10/17/17	LAO	AJP

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15-3050

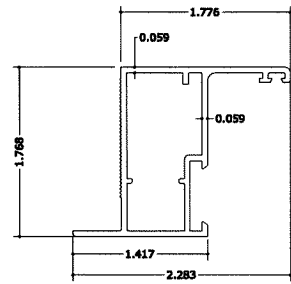
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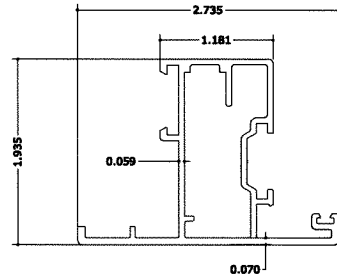
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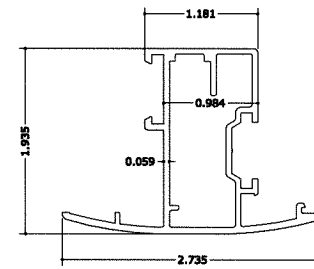
① 27703 - FRAME HEAD, JAMB & SILL



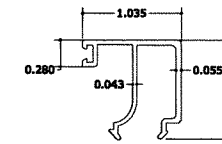
② 27919 - VENT FRAME



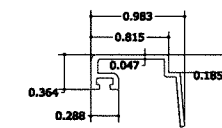
②A 27662 - VENT FRAME



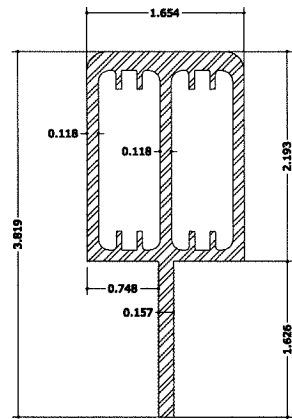
③ 9040 - GLAZING BEAD
(9/16" GLASS)



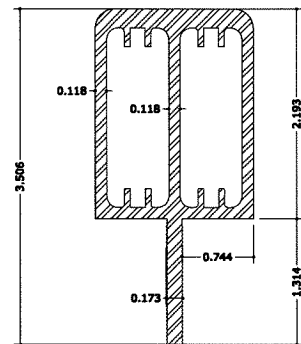
④ 9159 - GLAZING BEAD
(1 5/16" GLASS)



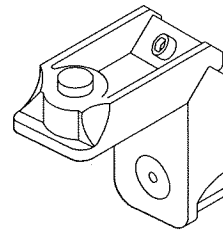
⑤ 27569- MULLION



⑤A 27569- MODIFIED MULLION



⑥ 0409 - FRAME/VENT CORNER KEY



⑦ 002/009- WEDGE GASKET



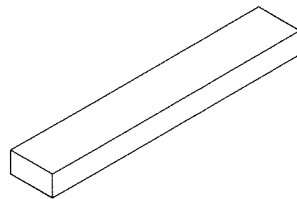
SCALE = 2X

⑧ 2666 - WEATHER STRIP GASKET

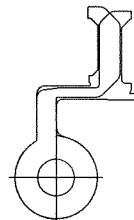


SCALE = 2X

⑩ SETTING BLOCK

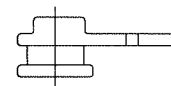


⑪ 160/2 BUTT HINGE

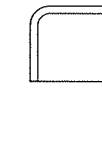


⑫ CD-MPK SPS/SS MUSHROOM HEAD & KEEPER

⑬



⑭ 1004/625 - OPERATING HANDLE/LATCH
GIESSE 1004/MASTER 6025



⑮ 2250/6415 - LATCH KEEPER
INTERNAL MOVEMENT
GIESSE 2250/MASTER 6415



⑰ INSULATED GLASS SPACER
ALUMINUM / POLYISOBUTYLENE / CARDINAL GLASS



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10/18/2017
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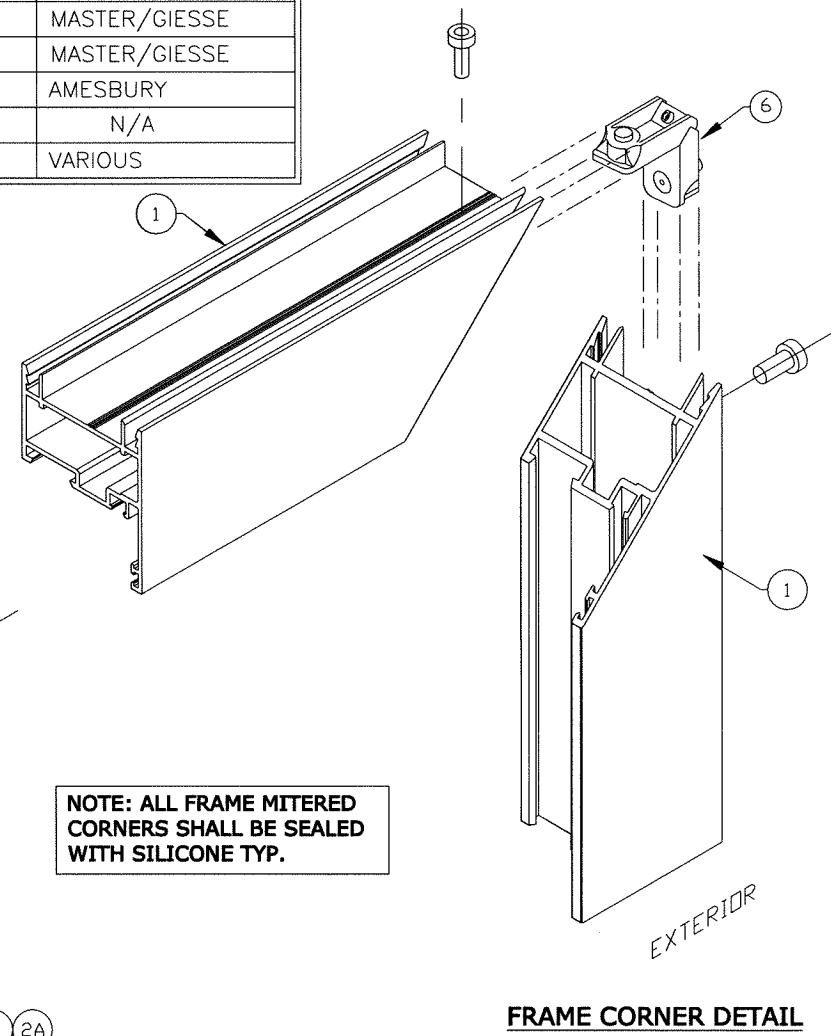
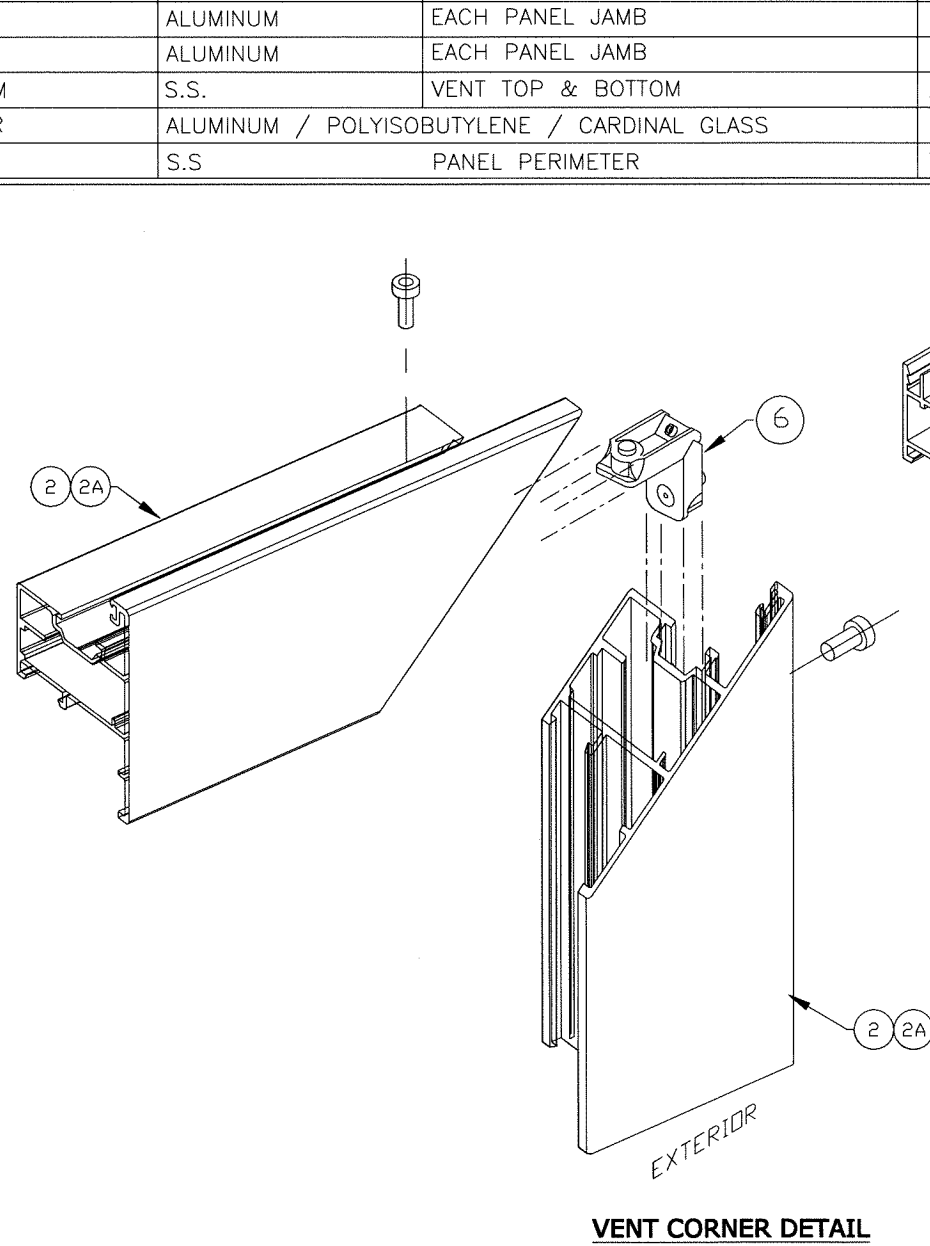
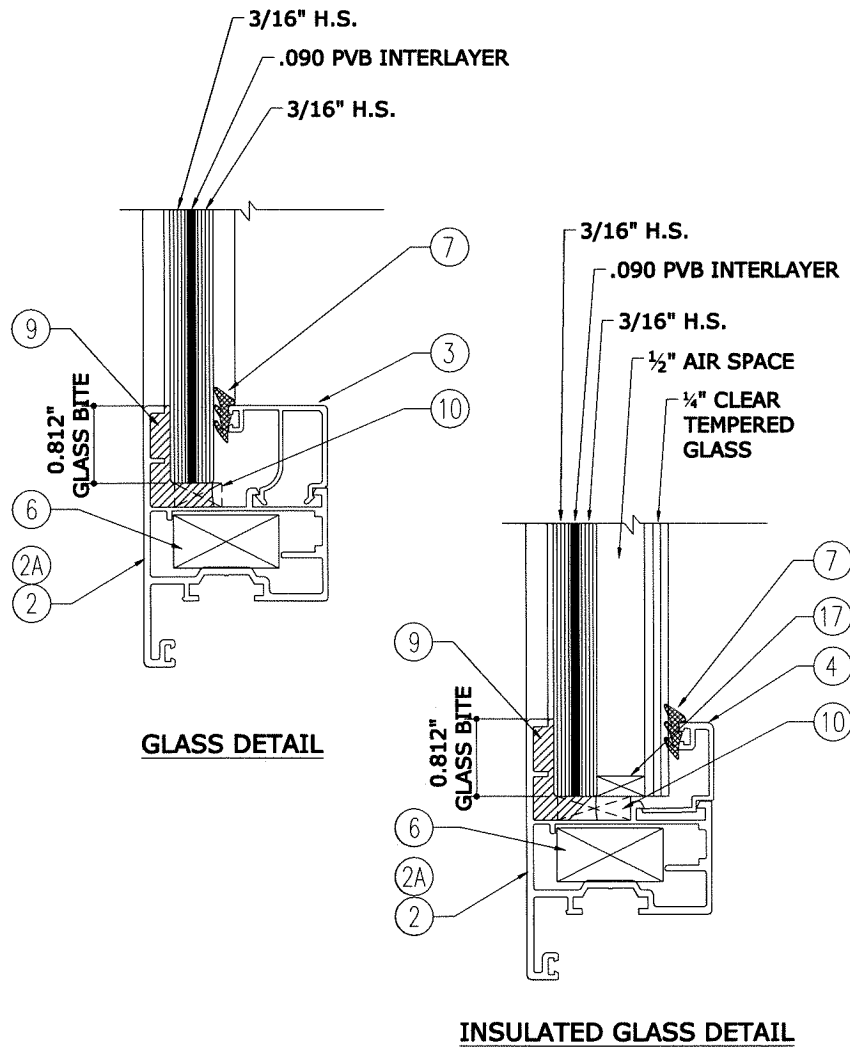
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BILL OF MATERIALS

ITEM	PART No.	QUANTITY	DESCRIPTION	MATERIAL	LOCATION	MANUFACTURER
①	27703	4	FRAME HEAD/JAMB/SILL	ALUM. AL. -6060-T5	WINDOW FRAME	GRUPO PROFILATI
②	27919	4	VENT HEAD/JAMB/SILL	ALUM. AL. -6060-T5	WINDOW VENT	GRUPO PROFILATI
②A	27662	4	VENT HEAD/JAMB/SILL	ALUM. AL. -6060-T5	WINDOW VENT	GRUPO PROFILATI
③	9040	4/VENT	GLAZING BEAD (9/16" GLASS)	ALUM. AL. -6060-T5	PANEL PERIMETER	GRUPO PROFILATI
④	9159	4/VENT	GLAZING BEAD (1 5/16" GLASS)	ALUM. AL. -6060-T5	PANEL PERIMETER	GRUPO PROFILATI
⑤	27569	2	MULLION	ALUM. AL. -6060-T5	BETWEEN FRAMES	GRUPO PROFILATI
⑥	0409	1 EA. CORNER	FRAME CORNER KEY	CAST ALUMINUM	FRAME CORNERS	MONTICELLI
⑦	002/009	AS REQ'D.	WEDGE GASKET	EPDM	PANEL GLAZING PERIM. (INTERIOR)	VERIFY
⑧	2666	AS REQ'D.	WEATHERSTRIP GASKET	EPDM	FRAME JAMB/ASTRAGAL/FRAME PANEL	PROFILATI SpA
⑨	895/995	CONTINUOUS	STRUCTURAL SILICONE	SILICONE	PERIMETER GLASS TO METAL	PECORA OR DOW CORNING
⑩	N/A	2 EA. LITE OF GLASS	1/4" X 1/2" X 3" LG. SETTING BLOCK	EXTRUDED SILICONE	⑥ 6" MAX. FROM ENDS OR 1/4 POINTS	GENERIC
⑪	160/2	6/VENT	4" BUTTHINGES	ALUM. 6060-T5	PANEL AND FRAME JAMBS	DOMAL
⑫	CD-MPK-SPS/SS	4/VENT	MUSHROOM HEAD AND KEEPERS	S.P.S./S.S.	PANEL JAMB AT TOP & BOTTOM	SULLIVAN
⑬	CD-MPK-100-SS	4/VENT	MULTIPOINT KEEPER KIT	S.S./ALUMINUM	PANEL JAMB AT TOP & BOTTOM	SULLIVAN
⑭	1004/6025	2/VENT	OPERATING HANDLE	ALUMINUM	EACH PANEL JAMB	MASTER/GIESSE
⑮	2250/6415	2/VENT	LATCH KEEPER	ALUMINUM	EACH PANEL JAMB	MASTER/GIESSE
⑯	1286		5-POINT LOCKING SYSTEM	S.S.	VENT TOP & BOTTOM	AMESBURY
⑰	N/A	N/A	INSULATED GLASS SPACER	ALUMINUM / POLYISOBUTYLENE / CARDINAL GLASS		N/A
⑱	N/A	6/JAMB 3/HEAD/SILL	#10 F.H.S.M.S.	S.S	PANEL PERIMETER	VARIOUS



NOTE: ALL FRAME MITERED CORNERS SHALL BE SEALED WITH SILICONE TYP.

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