



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

**Labrador & Fundora Corp. dba V & V Windows**  
**14150 NW 56<sup>th</sup> Court, Suite 600**  
**Opa-Locka, FL 33054**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "350" Aluminum Fixed Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **19-19D**, titled "Series-350 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/18/19, with revision C dated 06/07/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

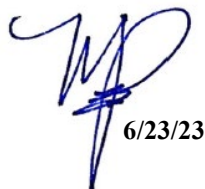
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. **20-0929.13** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



  
6/23/23

NOA No. 23-0620.04  
Expiration Date: June 06, 2029  
Approval Date: July 06, 2023  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 19-0326.10)*
2. Drawing No. **19-19D**, titled "Series-350 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 03/18/19, with revision **B** dated 07/14/20, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 20-0929.13)*

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Safety Performance Test, (class A) per ANSI Z97.1  
along with marked-up drawings and installation diagram of an aluminum fixed window, single and mulled, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1079**, dated 09/27/18, signed and sealed by Idalmis Ortega, P.E.  
*(Submitted under NOA No. 19-0326.10)*

**C. CALCULATIONS**

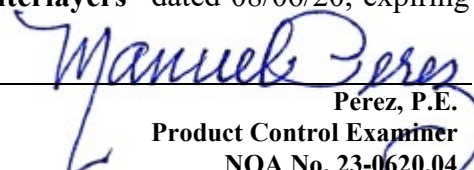
1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 01/16/19 and updated on 09/10/20 to comply with **FBC 7<sup>th</sup> Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-0929.13)*
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**" dated 05/23/19, expiring on 05/23/24.
2. Notice of Acceptance No. **20-0622.01** issued to **Eastman Chemical Company (MA)** for their "**Saflex PVB Clear and Color Glass Interlayers**" dated 08/06/20, expiring on 05/21/21.

  
Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0620.04  
Expiration Date: June 06, 2029  
Approval Date: July 06, 2023

**Labrador & Fundora Corp. dba V & V Windows**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

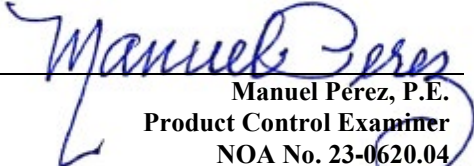
**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 6<sup>th</sup> Edition (2017)**, with **FBC 7<sup>th</sup> Edition (2020)** and of no financial interest, dated September 10, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.  
*(Submitted under NOA No. 20-0929.13)*
2. Proposal No. **16-0476R** issued by Product Control Section, dated 05/23/16 and revised on 11/30/17, signed by Manuel Perez, P.E.  
*(Submitted under NOA No. 19-0326.10)*

**G. OTHERS**

1. Notice of Acceptance No. **19-0326.10**, issued to Labrador & Fundora Corp. dba V & V Windows for their Series "350" Aluminum Fixed Window - L.M.I., approved on 06/06/19 and expiring on 06/06/24.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-0620.04

Expiration Date: June 06, 2029  
Approval Date: July 06, 2023

**Labrador & Fundora Corp. dba V & V Windows**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **19-19D**, titled “Series-350 Aluminum Fixed Wdw. (L.M.I.)”, sheets 1 through 7 of 7, dated 03/18/19, with revision **C** dated 06/07/23, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

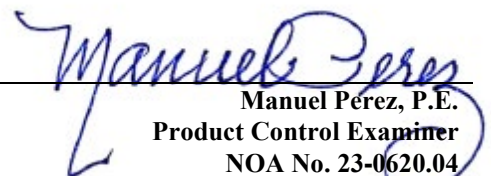
1. Notice of Acceptance No. **22-1116.01** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 12/15/22, expiring on 07/04/28.
2. Notice of Acceptance No. **21-0216.01** issued to **Eastman Chemical Company (MA)** for their “**Saflex PVB Interlayers - Clear and Colored for Glass**” dated 04/29/21, expiring on 05/21/26.

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, with **FBC 8<sup>th</sup> Edition (2023)** and of no financial interest, dated June 07, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **20-0929.13**, issued to Labrador & Fundora Corp. dba V & V Windows for their Series “350” Aluminum Fixed Window - L.M.I., approved on 12/17/20 and expiring on 06/06/24.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 23-0620.04  
Expiration Date: June 06, 2029  
Approval Date: July 06, 2023

# **SERIES 350 ALUMINUM FIXED WINDOW WITH UNCLIPPED MULLION OPTIONS**

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED CLIPPED MULLIONS IN BETWEEN.

FOR FIX./FIX. COMBINATIONS OF TWO OR MORE WINDOWS USING '1X3' AND '1X4' UNCLIPPED MULLION SEE CHART ON SHEET 6.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

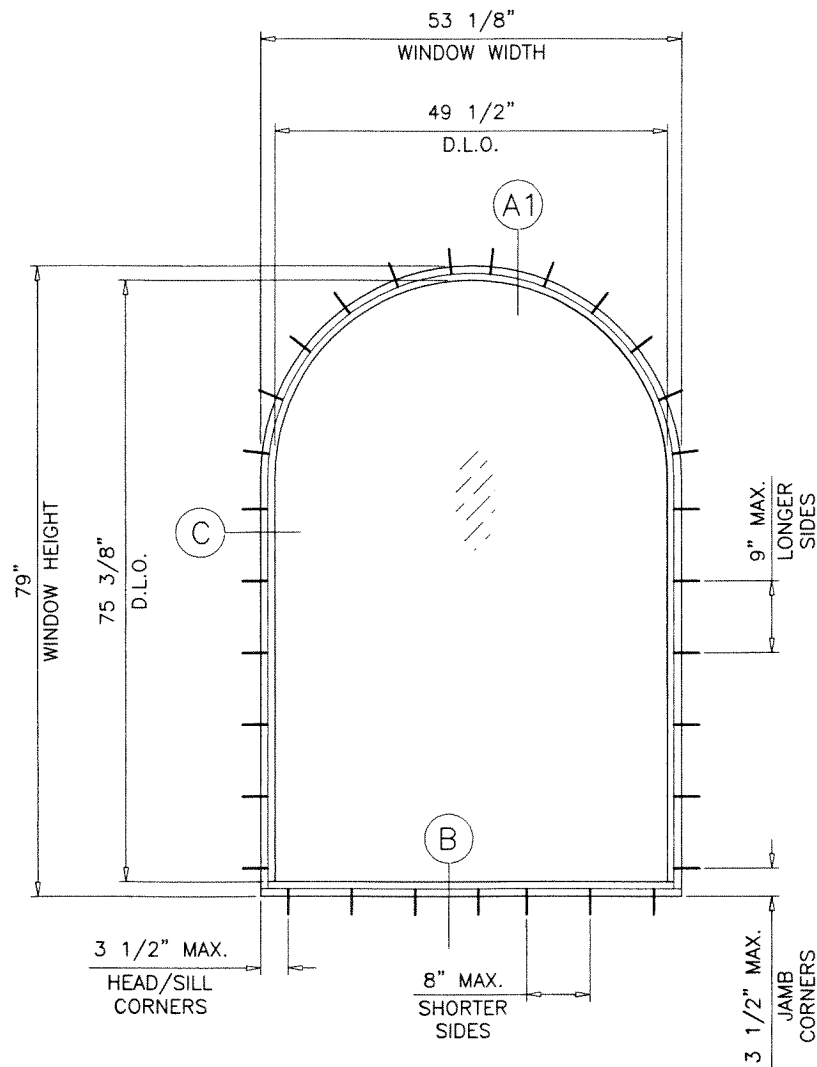
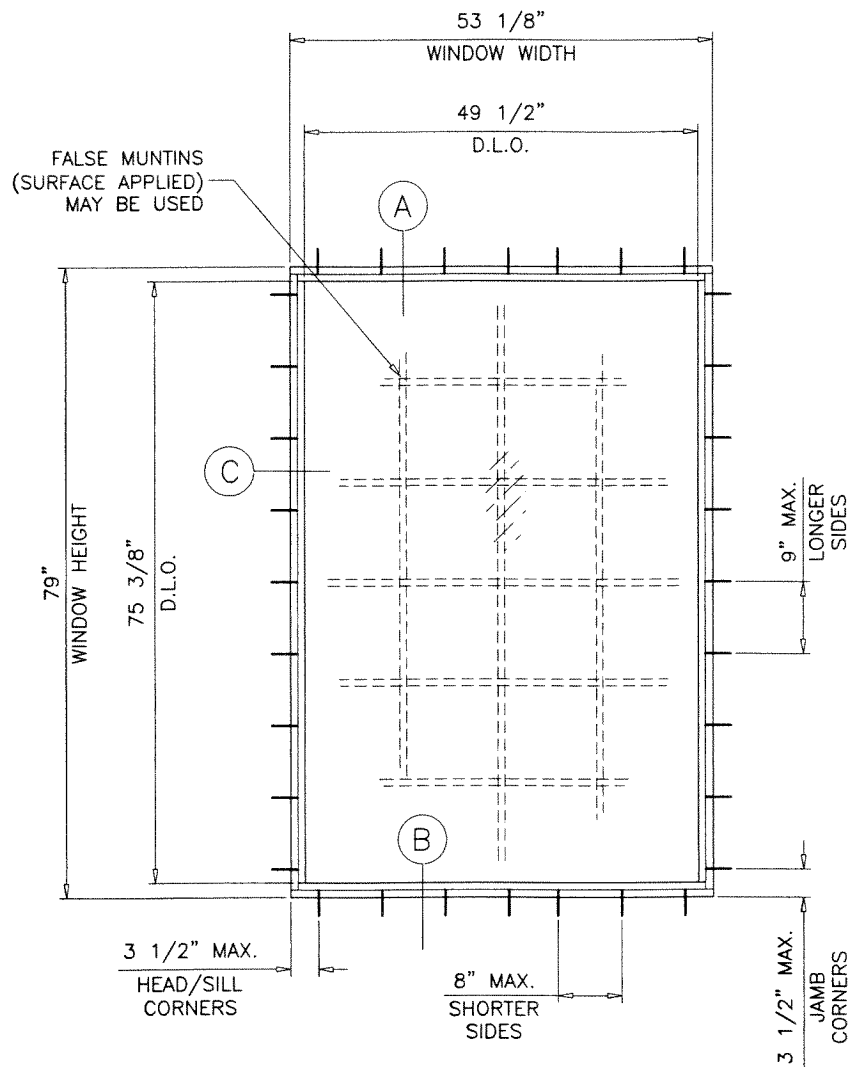
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



**TYPICAL ELEVATIONS**

GLASS D.L.O. DIMS.

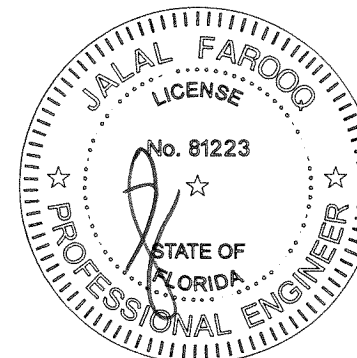
D.L.O. HEIGHT = WINDOW HEIGHT - 3.625"

D.L.O. WIDTH = WINDOW WIDTH - 3.625"

WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-0620.04**  
Expiration Date: **06/06/2029**  
By: *Manuel Perez*  
Miami-Dade Product Control



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\19-19D-W

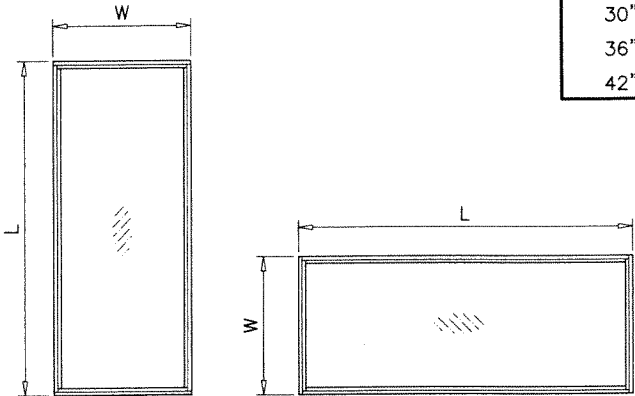
SERIES-350 ALUMINUM FIXED WDW. (L.M.I.)  
**Labrador & Fundora Corp.**  
dba-V & V Windows  
14150 N.W. 56th Court, Suite 600  
Opa-Locka, FL. 33054  
Tel. (305) 888-4151  
www.vvwindows.com

revisions:	no	date	by	description
	A	05.07.19		NO CHANGE THIS SHEET
	B	07.14.20		UPDATED TO 2020 FBC
	C	06.07.23		UPDATED TO 2023 FBC
date:	03-18-19			
scale:	1/2"=1'-0"			
dr. by:	TARIQ			
chk. by:				
drawing no.	19-19D			
sheet	1 of 7			



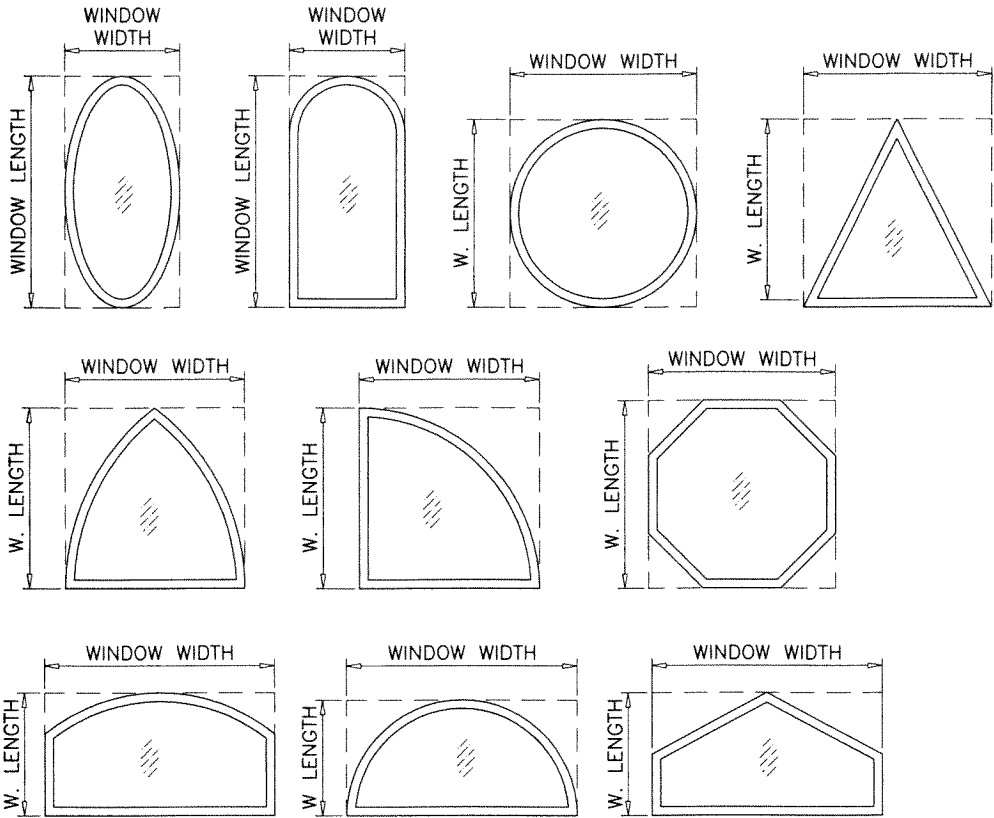
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	63"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"		72.3	72.3	100.0	100.0
19-1/8"	76"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"	79"	-	-	100.0	100.0
19-1/8"		80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"	84"	-	-	100.0	100.0
19-1/8"		80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
19-1/8"	90"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
19-1/8"	96"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	60"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	66"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	72"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	78"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	84"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	90"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5
30"	96"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		71.1	71.1	98.4	98.4
60"		64.0	64.0	88.5	88.5



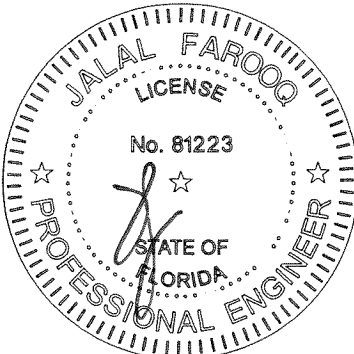
NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE  
ORIENTED VERTICALLY OR HORIZONTALLY  
AS SHOWN ABOVE.

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE  
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS  
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-0620.04**  
Expiration Date: **06/06/2029**  
By: *Manuel Perez*  
Miami-Dade Product Control



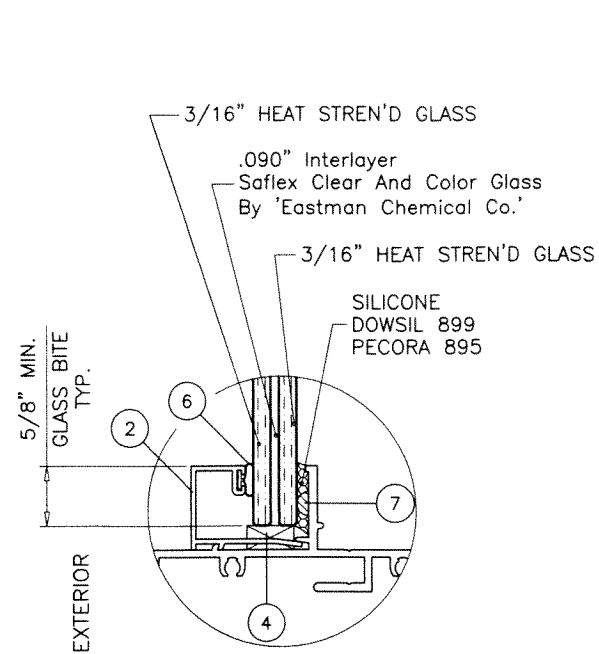
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 262-6978  
FAX. (305) 262-6978  
(C.A.N. 3538)

SERIES-350 ALUMINUM FIXED WDW. (L.M.I.)  
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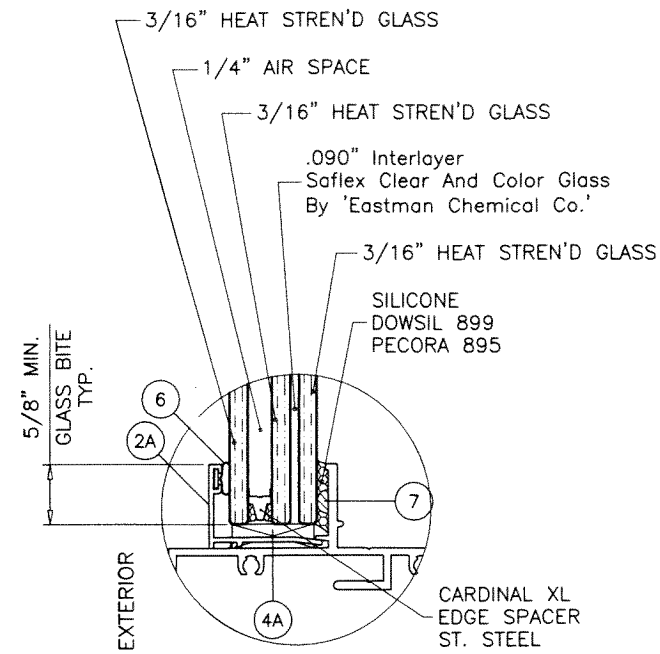
revisions:		date:	03-18-19	scale:	-	dr. by:	TARIQ	chk. by:	
no	date	by	description	no	date	by	description	no	date
A	05.07.19		NO CHANGE THIS SHEET						
B	07.14.20		EDITORIAL CHANGES						
C	06.07.23		UPDATED TO 2023 FBC						

drawing no. **19-19D**  
sheet **2** of **7**

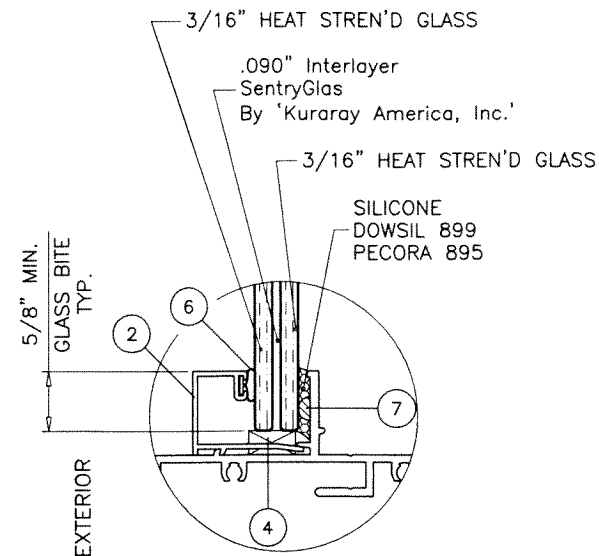
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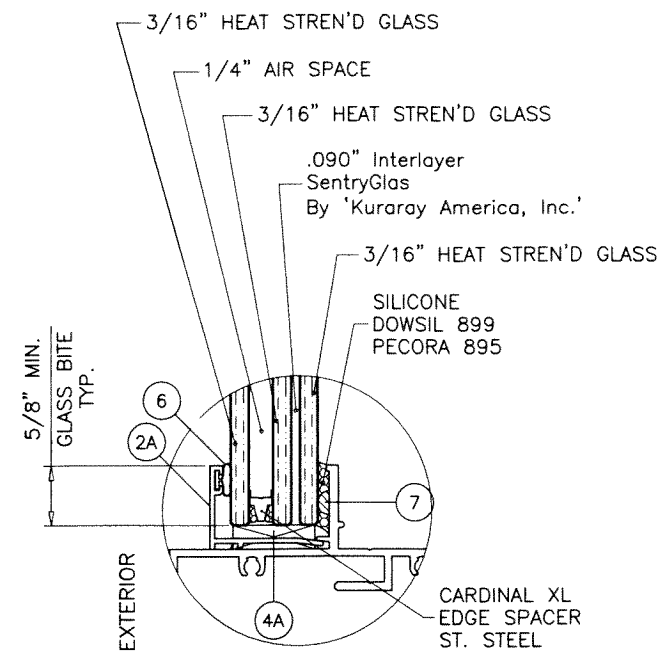
**GLASS TYPE 'A'**  
7/16" OVERALL NOM.



**GLASS TYPE 'Ai'**  
7/8" OVERALL NOM.

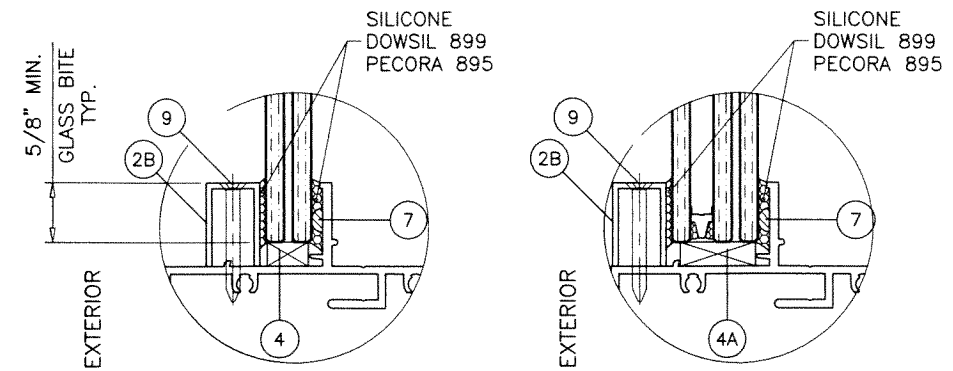


**GLASS TYPE 'B'**  
7/16" OVERALL NOM.



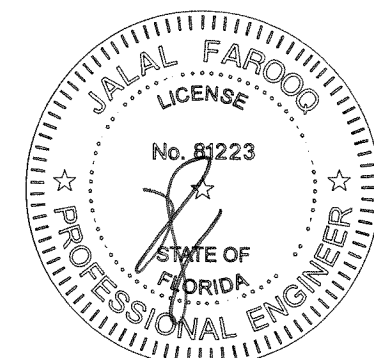
**GLASS TYPE 'Bi'**  
7/8" OVERALL NOM.

## GLAZING OPTIONS



## GLAZING DETAILS AT CIRCULAR FRAMES

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-0620.04** JUN 13 2023  
Expiration Date: **06/06/2029**  
By: *Manuel Ferrer*  
Miami-Dade Product Control



SERIES-350 ALUMINUM FIXED WDW. (L.M.I.)  
**Labrador & Fundora Corp.**  
**dba-V & V Windows**  
14150 N.W. 56th Court, Suite 600  
Opa-Locka, FL 33054  
Tel. (305) 888-4151  
www.vvwindows.com

revisions:	no	date	by	description
	A	05.07.19	REV.	PER RER COMMENTS
	B	07.14.20	EDITORIAL	CHANGES
	C	06.07.23	UPDATED	TO 2023 FBC

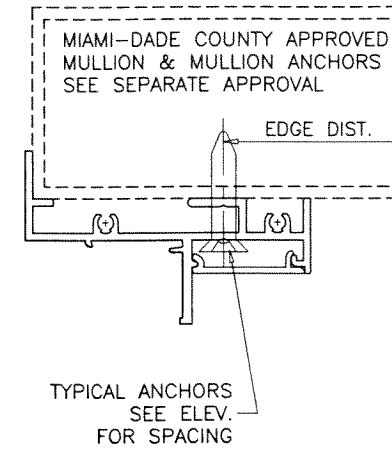
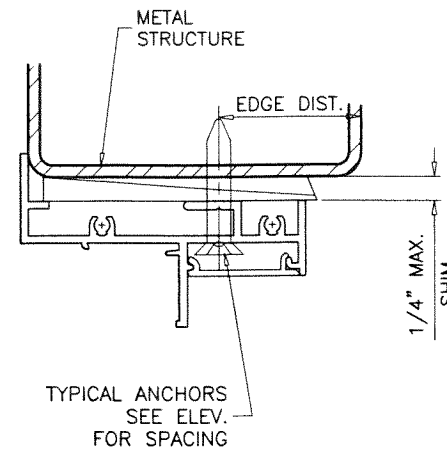
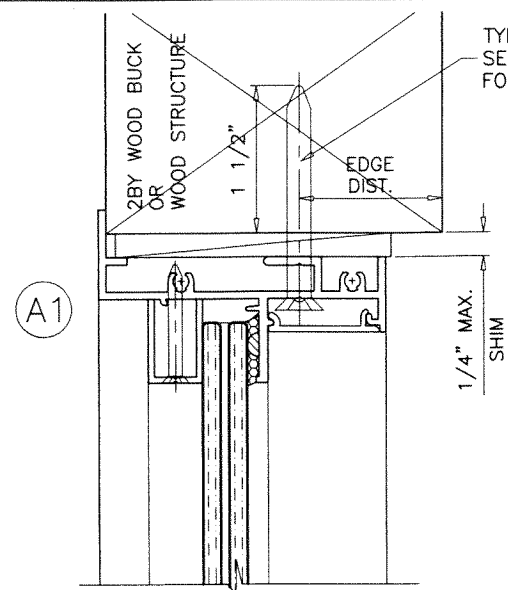
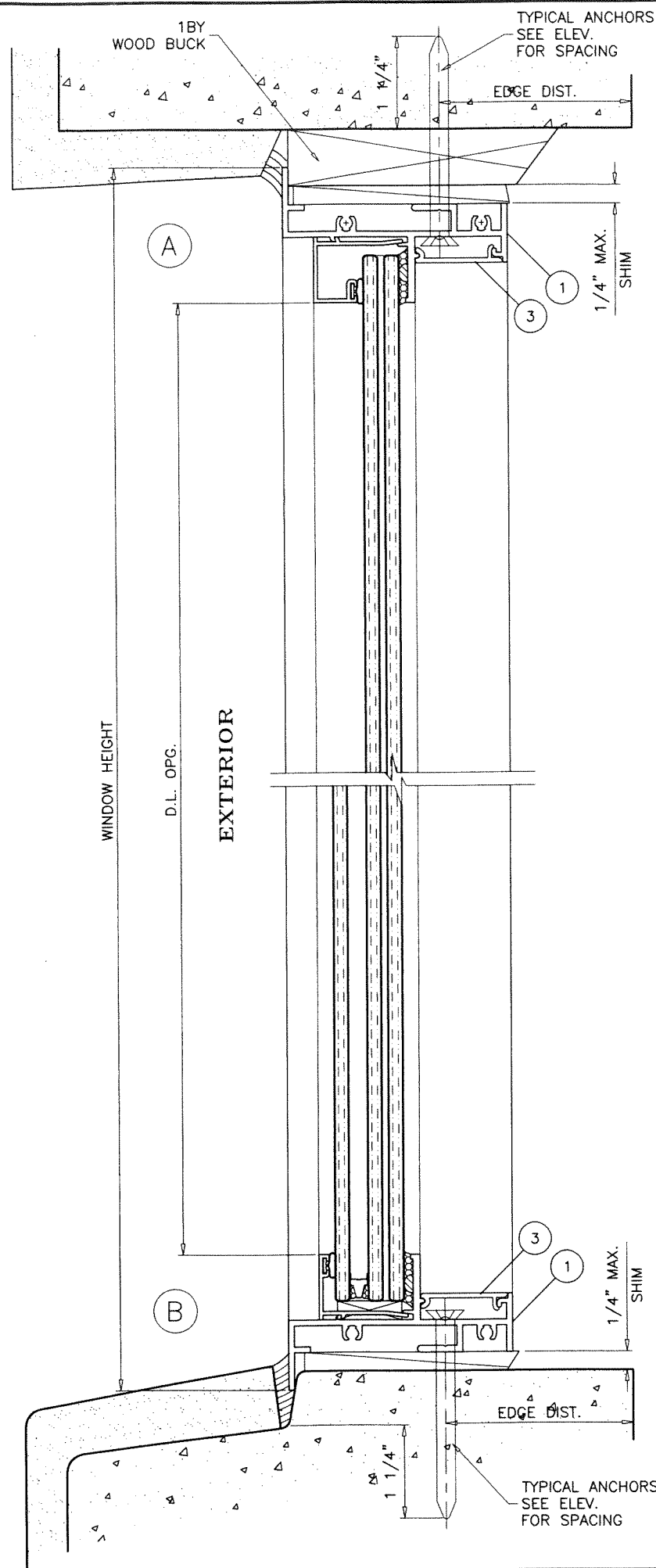
date:	03-18-19
scale:	1/2" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.	19-19D
sheet	3 of 7

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

COMP-ANL\19-19D-VV



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY V&V WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**1/4" DIA. ULTRACON+ BY 'DEWALT'** ( $F_u=164$  KSI,  $F_y=148$  KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-3/4" MIN. EMBED INTO BLOCKS (JAMBS)

**#14 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)  
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. ( $F_y = 36$  KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

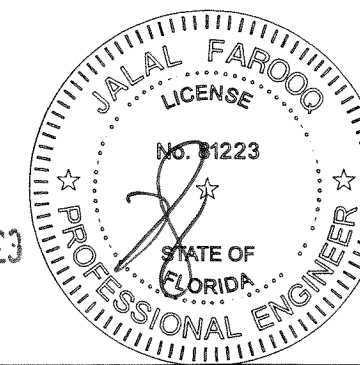
**TYPICAL EDGE DISTANCE**

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS  $f'_c = 3000$  PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS  $f'_m = 2000$  PSI MIN.

**PRODUCT REVISED**  
 As complying with the Florida Building Code  
 NOA-No. **23-0620.04**  
 Expiration Date: **06/06/2029**  
 By: *Manuel Fern*  
 Miami-Dade Product Control

JUN 13 2023



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SERIES-350 ALUMINUM FIXED WDW. (L.M.I.)  
 Labrador & Fundora Corp.  
 dba-V & V Windows  
 14150 N.W. 56th Court, Suite 600  
 Opa-Locka, FL. 33054  
 Tel. (305) 888-4151  
 www.vvwindows.com

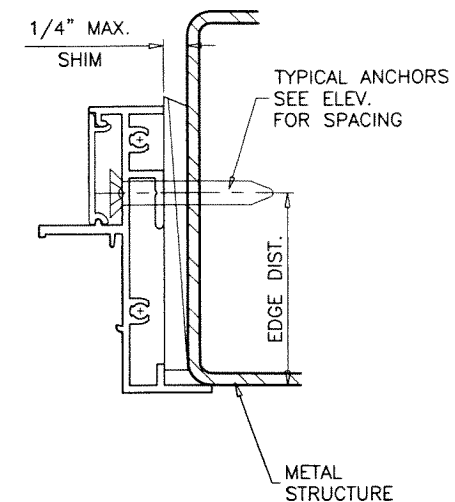
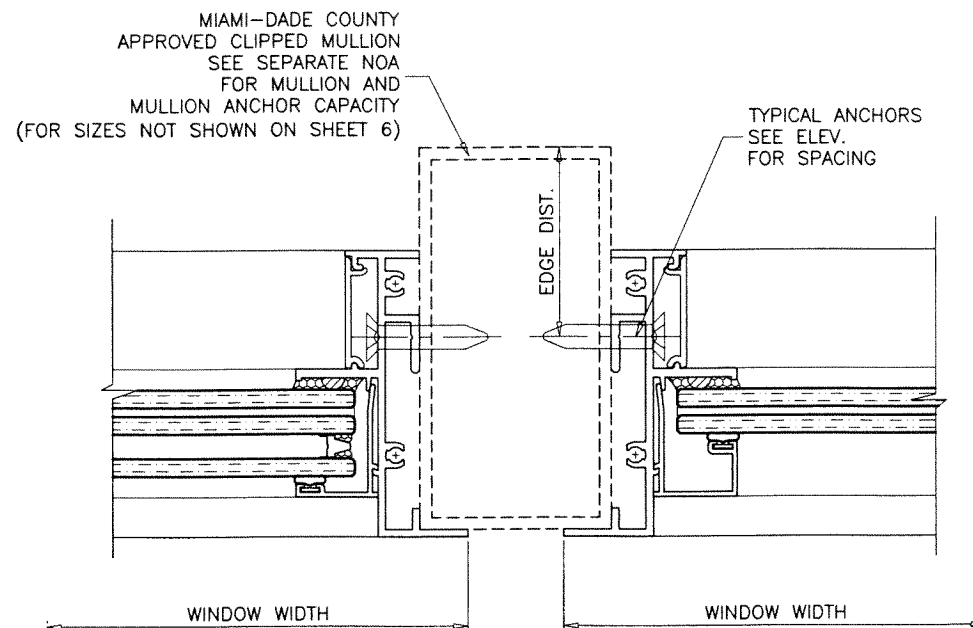
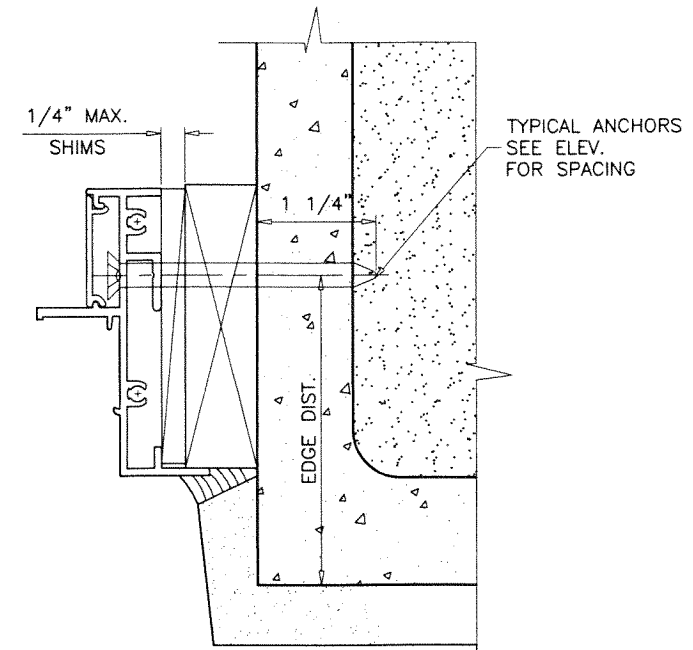
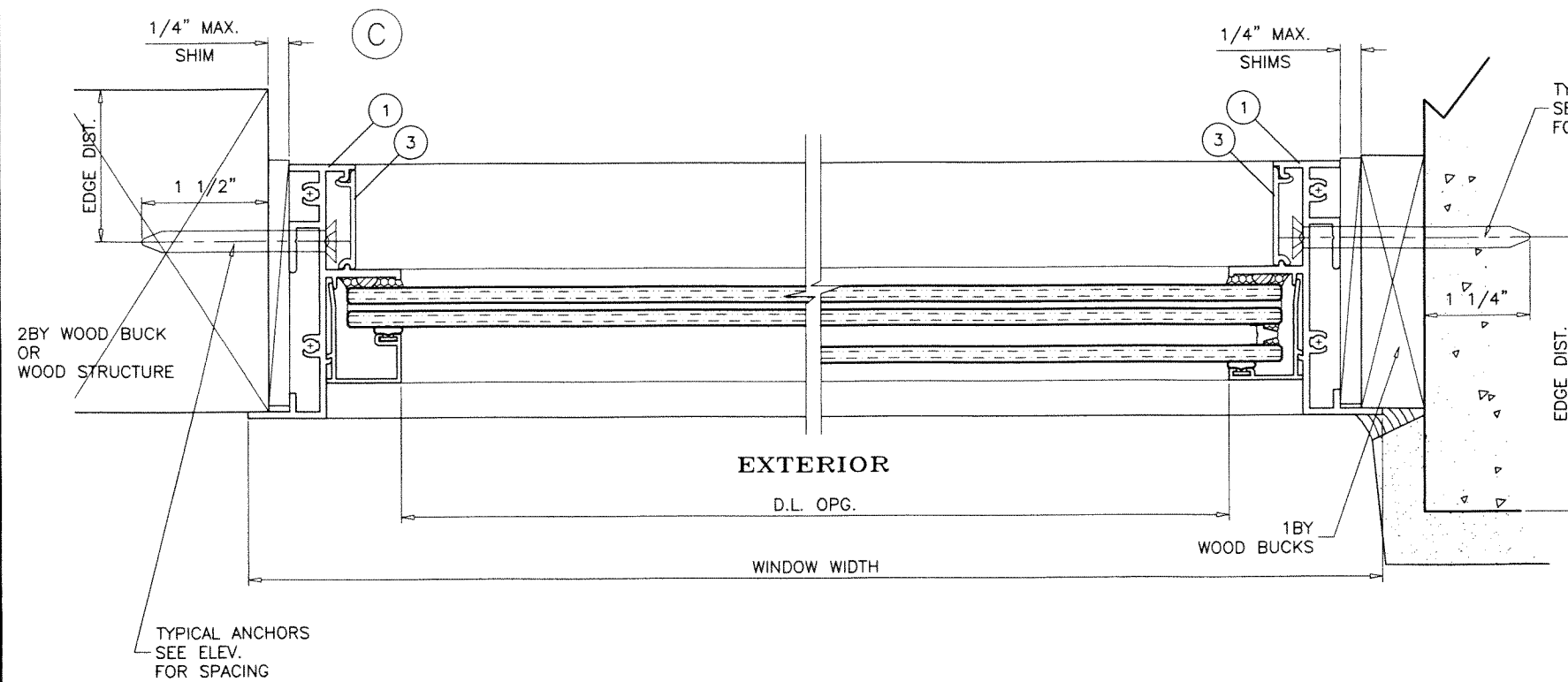
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	A	05.07.19		REV. PER RER COMMENTS
	B	07.14.20		UPDATED TO 2020 FBC
	C	06.07.23		UPDATED TO 2023 FBC

date: 03-18-19	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no. 19-19D	sheet 4 of 7		

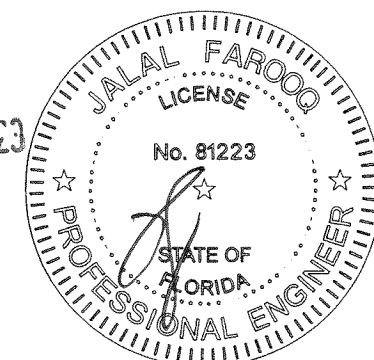
COMP-ANL\19-19D-W






**PRODUCT REVISED**  
 As complying with the Florida  
 Building Code  
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 Expiration Date: **06/06/2029**  
 By: *Manuel Ferrer*  
 Miami-Dade Product Control

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 COMP-ANL\19-19D-W

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no	by description	03-18-19	1/2" = 1"	TARIQ	
A	REV. PER RER COMMENTS				
B	EDITORIAL CHANGES				
C	UPDATED TO 2023 FBC				

drawing no.

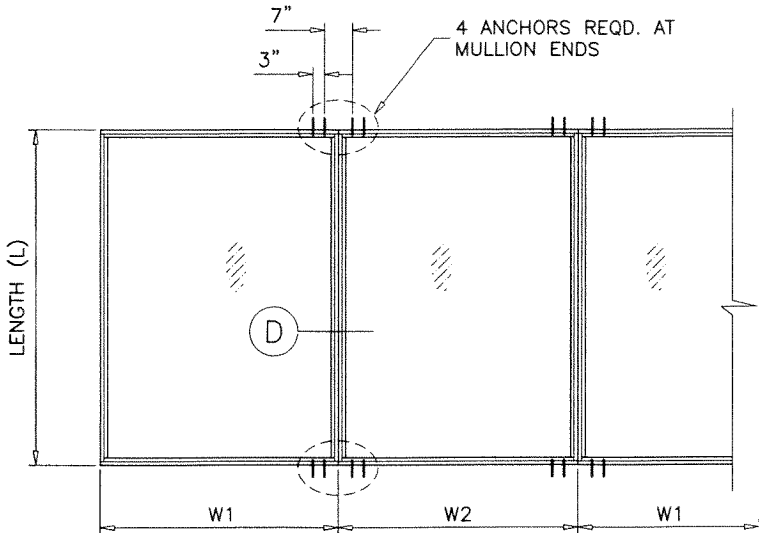
**19-19D**

sheet 5 of 7

MULLION LOAD CAPACITY - PSF					
WINDOW DIMS.		MULLION TYPE '1'		MULLION TYPE '2'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	63"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
53-1/8"		80.0	80.0	100.0	100.0
19-1/8"	76"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		80.0	80.0	100.0	100.0
48"		68.0	68.0	97.2	97.2
53-1/8"		-	-	91.0	91.0
19-1/8"	79"	80.0	80.0	100.0	100.0
26-1/2"		80.0	80.0	100.0	100.0
37"		72.6	72.6	100.0	100.0
48"		59.7	59.7	88.6	88.6
53-1/8"		-	-	82.7	82.7
19-1/8"	84"	80.0	80.0	80.0	80.0
26-1/2"		80.0	80.0	80.0	80.0
37"		59.7	59.7	80.0	80.0
30"	60"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
60"		80.0	80.0	100.0	100.0
30"	66"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		80.0	80.0	100.0	100.0
60"		80.0	80.0	100.0	100.0
30"	72"	80.0	80.0	100.0	100.0
36"		80.0	80.0	100.0	100.0
42"		80.0	80.0	100.0	100.0
48"		80.0	80.0	100.0	100.0
54"		76.5	76.5	100.0	100.0
30"	78"	80.0	80.0	100.0	100.0
36"		77.3	77.3	100.0	100.0
42"		68.5	68.5	100.0	100.0
48"		62.3	62.3	91.3	91.3
30"	84"	71.7	71.7	80.0	80.0
36"		61.1	61.1	80.0	80.0
42"		53.9	53.9	80.0	80.0
48"		48.8	48.8	76.7	76.7

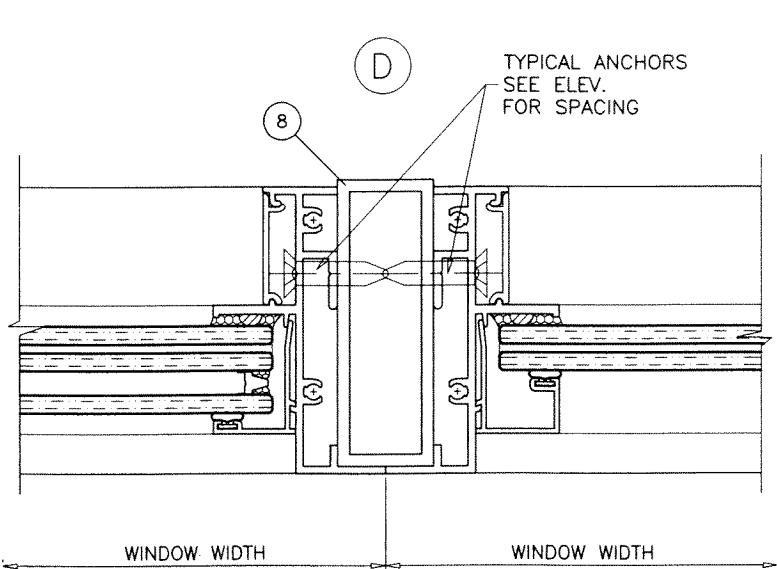
NOTES:

- USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
- FOR FIXED WINDOW CAPACITY SEE SHEET 2.
- LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.



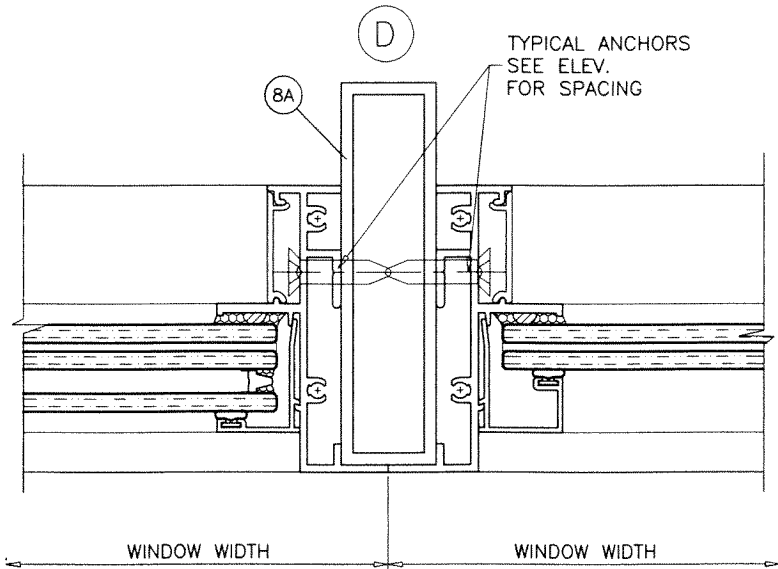
TYPICAL ELEVATIONS  
SIDE BY SIDE WINDOWS  
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

WIDTH (W) =  $\frac{W1 + W2}{2}$



MULLION TYPE '1'

TOTAL PRPERTIES  
Ix = 2.068 IN<sup>4</sup>  
Sx = 1.312 IN<sup>3</sup>

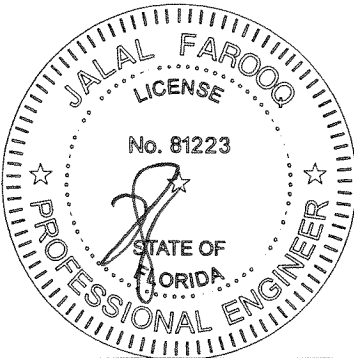


MULLION TYPE '2'

TOTAL PRPERTIES  
Ix = 3.155 IN<sup>4</sup>  
Sx = 1.578 IN<sup>3</sup>

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Miami-Dade Product Control

JUN 13 2023

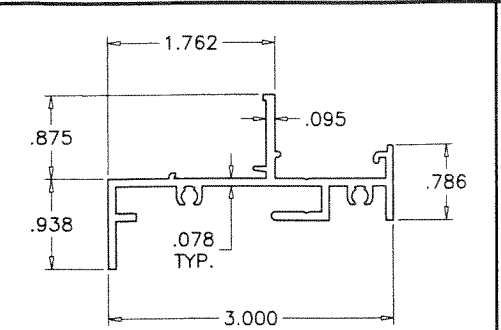


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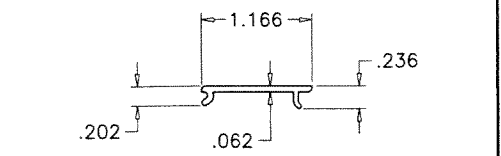
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A	REV. PER COMMENTS	1	05.07.19	1/2" = 1"		TARIQ			
B	EDITORIAL CHANGES	2	07.14.20						
C	UPDATED TO 2023 FBC	3	06.07.23						

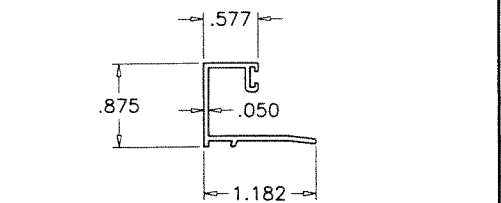
drawing no. 19-19D  
sheet 6 of 7



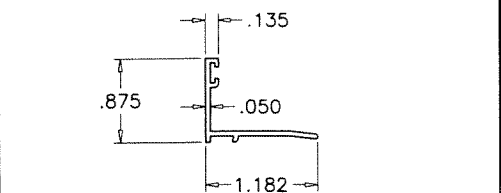
1 FRAME HEAD/SILL/JAMB



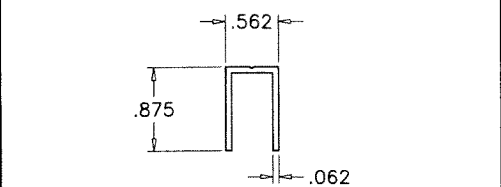
3 FRAME COVER



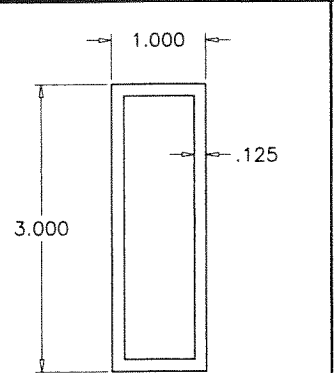
2 GLASS STOP (LAM. GLASS)



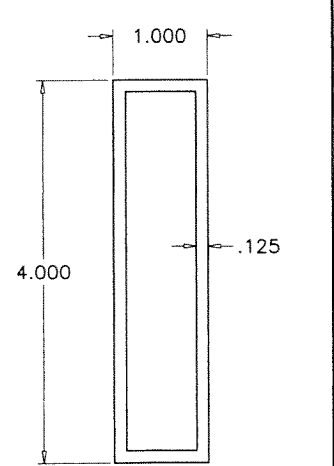
2A GLASS STOP (INSUL. LAM. GLASS)



2B GLASS STOP (CIRCULAR FRAMES)



8 TUBE MULLION



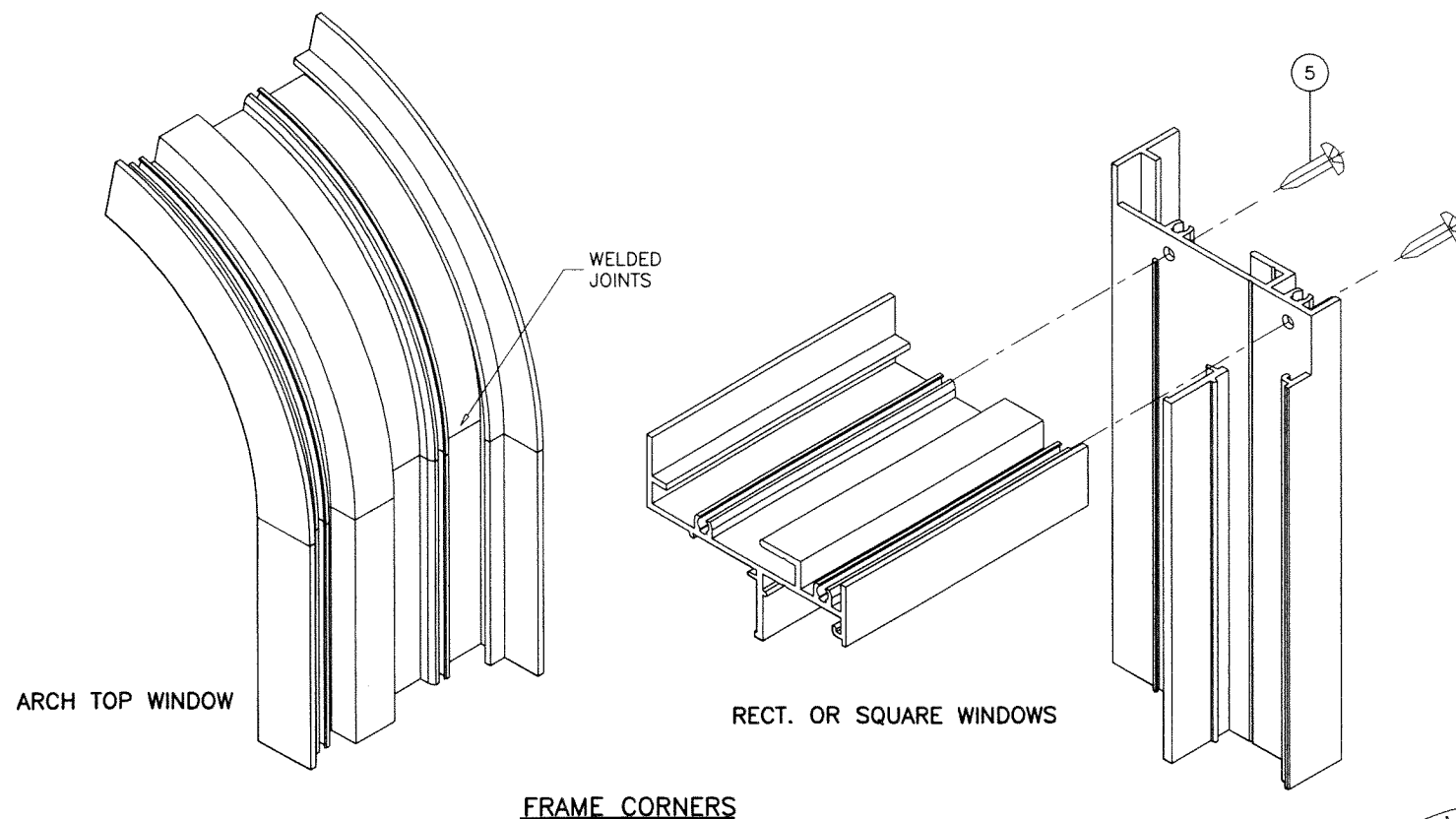
8A TUBE MULLION

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	V351	4/ WDW.	FRAME HEAD/SILL/JAMB	6063-T6	-
2	V352	4/ WDW.	GLAZING BEAD (LAM. GLASS)	6063-T5	-
2A	V353	4/ WDW.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T5	-
2B	V354	4/ WDW.	GLAZING BEAD (CIRCULAR FRAMES)	6063-T5	-
3	V404	AS REQD.	FRAME COVER	6063-T6	-
4	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
4A	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
5	#10 X 2"	AS REQD.	FRAME ASSEMBLY SCREWS	CRS	PH SMS
6	9146	AS REQD.	GLAZING GASKET	VINYL	CENTRAL PLASTICS, DUROMETER 65±5 SHORE A
7	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE, DUROMETER 65±5 SHORE A
8	-	AS REQD.	1X3 TUBE MULLION	6063-T6	-
8A	-	AS REQD.	1X4 TUBE MULLION	6063-T6	-
9	#8 X 1-1/4"	AS REQD.	GLAZING BEAD FASTENERS, AT 10" O.C.	CRS	FH SMS

### SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH 'PECORA 1215' SEAM SEALER.

PARIMETER CAULKING 'DYMONIC FC POLYURETHANE' ON EXTERIOR ONLY.

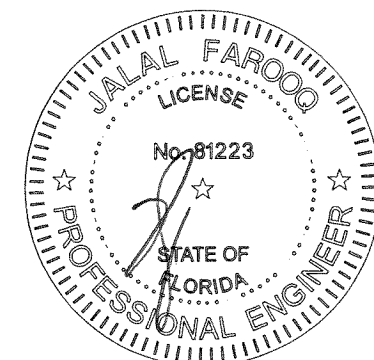


ARCH TOP WINDOW

RECT. OR SQUARE WINDOWS

FRAME CORNERS

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Miami-Dade Product Control



**af c**  
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