



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**  
**2355 W 4<sup>th</sup> Avenue**  
**Hialeah, FL 33010-1454**

### 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 "100" Aluminum Single Hung Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W11-38**, titled "Series 100 Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 07/15/11, with revision **E** dated 07/14/20, 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.

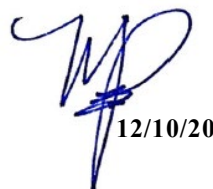
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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. 17-1018.02** 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.**



  
12/10/20

**NOA No. 20-0828.15**  
**Expiration Date: October 20, 2026**  
**Approval Date: December 17, 2020**  
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. 11-0907.03)*
2. Drawing No. **W11-38**, titled "Series 100 Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 07/15/11, with revision **D** dated 09/27/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 17-1018.02)*

**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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94  
along with marked-up drawings and installation diagram of a single hung window, prepared by American Test Lab of South Florida, Inc., Test Report No. **ATLSF-0913.01-10**, dated 07/11/11, signed and sealed by Julio E. Gonzalez, P.E.  
*(Submitted under NOA No. 11-0907.03)*

**C. CALCULATIONS**

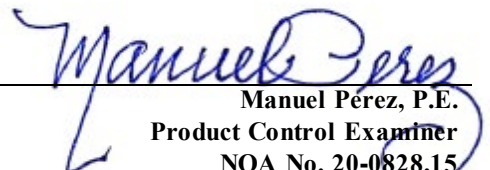
1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 09/25/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 17-1018.02)*
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Interlayers**" dated 01/19/17, expiring on 07/08/19.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.

  
Manuel Pérez, P.E.  
Product Control Examiner  
NOA No. 20-0828.15  
Expiration Date: October 20, 2026  
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**Labrador & Fundora Corp. dba V & V Windows**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

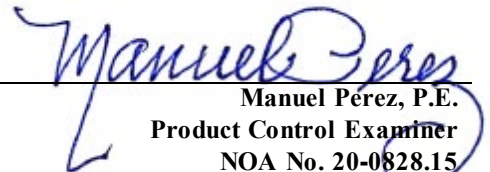
**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 5<sup>th</sup> Edition (2014)**, with **FBC 6<sup>th</sup> Edition (2017)**, and of no financial interest, dated September 25, 2017, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.  
*(Submitted under NOA No. 17-1018.02)*
2. Laboratory compliance letter for Test Report No. **ATLSF-0913.01-10**, issued by American Test Lab of South Florida, Inc., dated 07/11/11, signed and sealed by Julio E. Gonzales, P.E.  
*(Submitted under NOA No. 11-0907.03)*

**G. OTHERS**

1. Notice of Acceptance No. **15-0311.02**, issued to Labrador & Fundora Corp. dba V & V Windows, for their Series "100" Aluminum Single Hung Window - L.M.I., approved on 08/27/15 and expiring on 10/20/21.



Manuel Pérez, P.E.

Product Control Examiner

NOA No. 20-0828.15

Expiration Date: October 20, 2026

Approval Date: December 17, 2020

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

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No **W11-38**, titled "Series 100 Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 7 of 7, dated 07/15/11, with revision **E** dated 07/14/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 09/25/17 and updated on 08/14/20 to comply with **FBC 7<sup>th</sup> Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-09**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

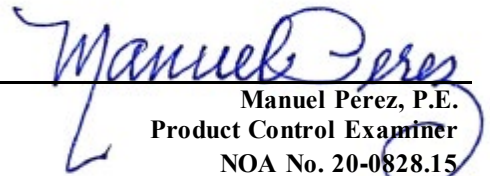
1. Notice of Acceptance No. **19-0305.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 05/09/19, expiring on 07/08/24.
2. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their "**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**" dated 05/23/19, expiring on 05/23/24.

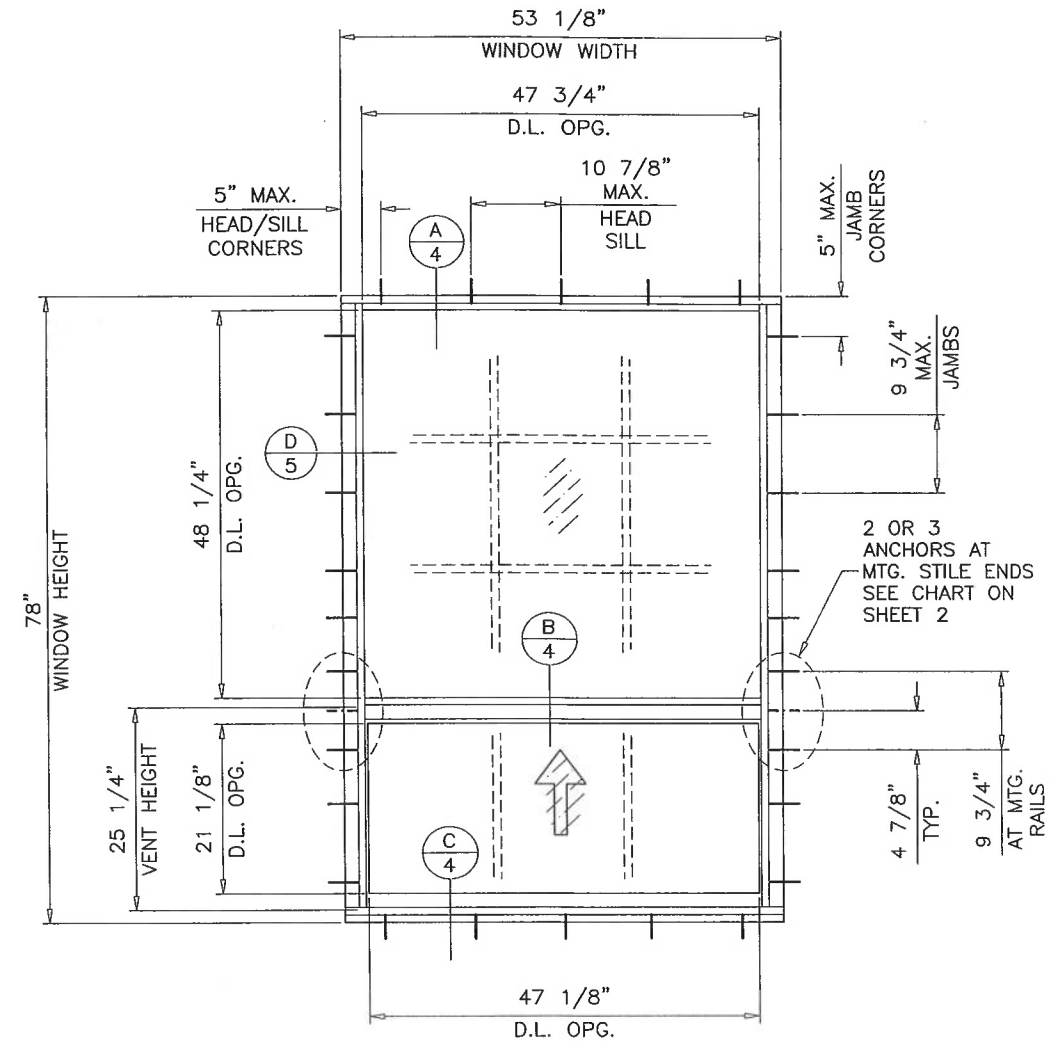
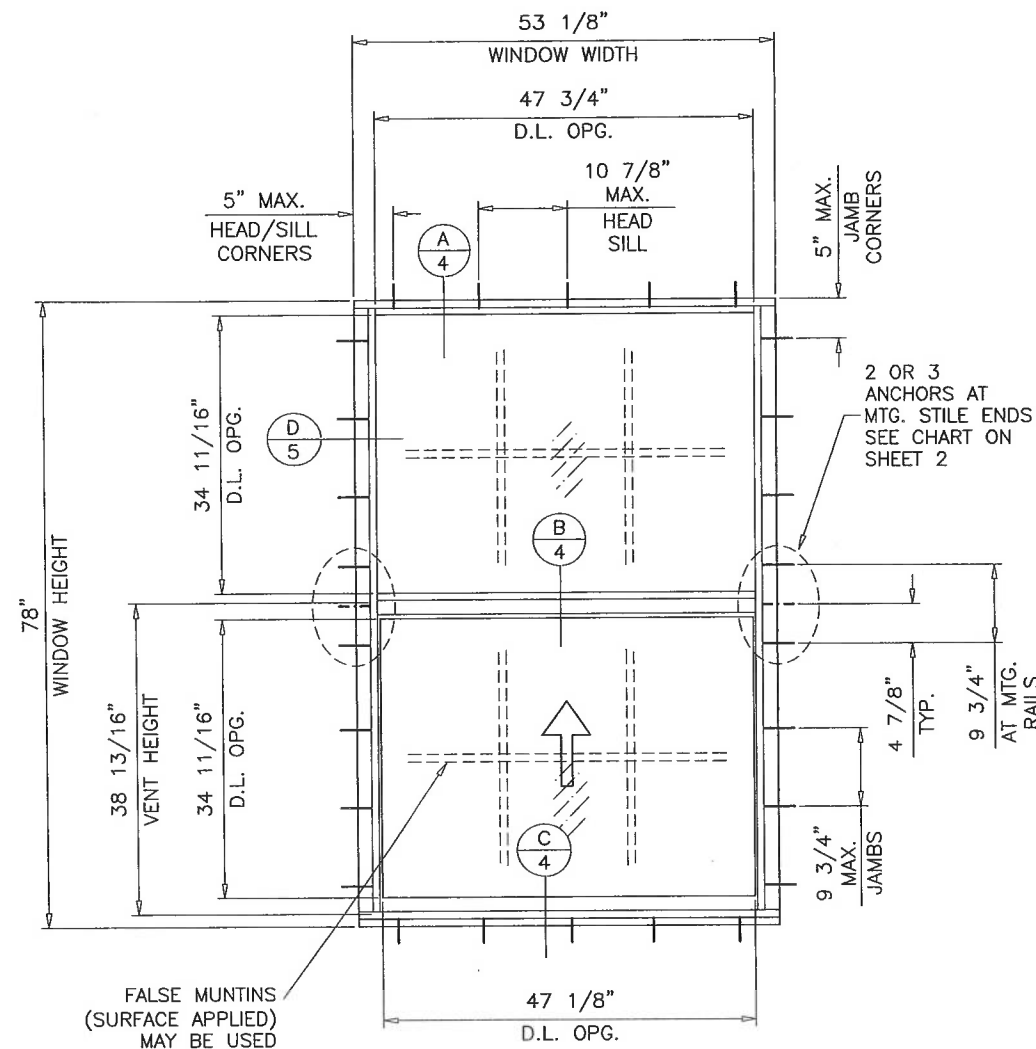
**F. STATEMENTS**

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 August 14, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **17-1018.02**, issued to Labrador & Fundora Corp. dba V & V Windows for their Series "100" Aluminum Single Hung Window - L.M.I., approved on 12/07/17 and expiring on 10/20/21.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 20-0828.15  
Expiration Date: October 20, 2026  
Approval Date: December 17, 2020



TYPICAL ELEVATIONS

## SERIES 100 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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 2017/2020 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)'.

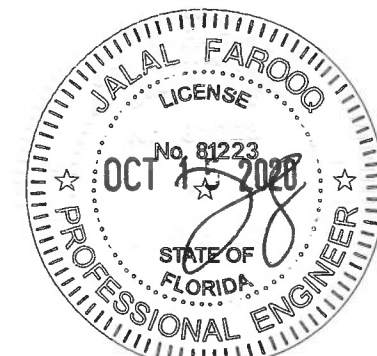
THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. **20-0828.15**

Expiration Date: **10/20/2026**

By: *Manuel Perez*  
Miami-Dade Product Control



SERIES 100 ALUM SINGLE HUNG WDW. (L.M.I.)

Labrador & Fundora Corp.

dba-V & V Windows

2355 West 4th Ave.

Hialeah, Fl. 33010

TEL (305) 888-4151 FAX (305) 888-1042

**AL-FAROOQ CORPORATION**

ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173 (C.A.N. 3538)

TEL (305) 264-8100 FAX (305) 262-6978

COMP-ANL\W11-38VV

revisions:	no	date	by	description
	A	10.04.11	REV.	PER BNC COMMENTS
	B	02.06.15	REV.	UPDATED TO 2014 FBC
	C	07.28.15	REV.	PER PER COMMENTS
	D	09.27.17	REV.	UPDATED TO 2017 FBC
	E	07.14.20	REV.	UPDATED TO 2020 FBC

date:	07-15-11
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.  
**W11-38**

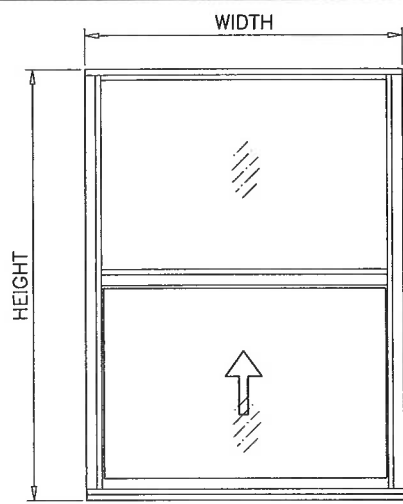
sheet 1 of 7



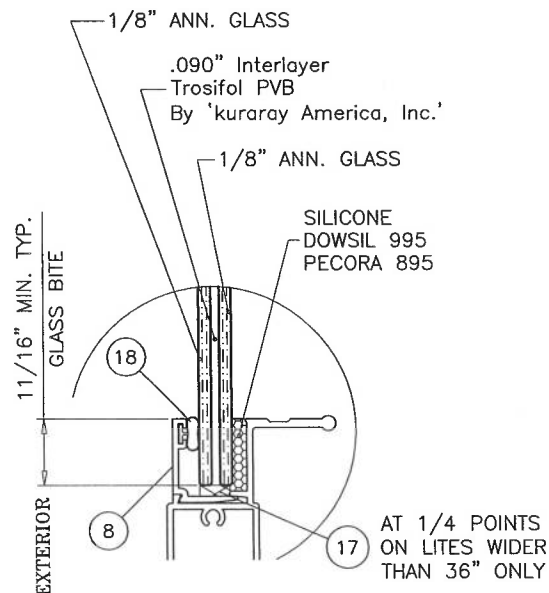
EQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF 2 ANCHORS AT MTG. STILE ENDS							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPES 'B' & 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
19-1/8"	26"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		60.0	60.0	75.0	75.0	80.0	120.0
19-1/8"	38-3/8"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		60.0	60.0	75.0	75.0	80.0	120.0
19-1/8"	50-5/8"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		60.0	60.0	75.0	75.0	80.0	116.1
19-1/8"	58"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		60.0	60.0	75.0	75.0	80.0	106.7
19-1/8"	60"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		60.0	60.0	75.0	75.0	80.0	104.6
19-1/8"	63"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		60.0	60.0	75.0	75.0	80.0	101.9
19-1/8"	72"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		-	-	75.0	75.0	80.0	114.0
53-1/8"		-	-	75.0	75.0	80.0	95.5
19-1/8"	74-1/4"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		-	-	75.0	75.0	80.0	113.0
53-1/8"		-	-	75.0	75.0	80.0	94.3
19-1/8"	78"	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		-	-	75.0	75.0	80.0	111.6
53-1/8"		-	-	75.0	75.0	80.0	92.6

EQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF 3 ANCHORS AT MTG. STILE ENDS							
WINDOW DIMS.		GLASS TYPE 'D'					
WIDTH	HEIGHT	EXT.(+)	1NT.(-)				
19-1/8"	26"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		-	-				
19-1/8"	38-3/8"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		-	-				
19-1/8"	50-5/8"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	58"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	60"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	63"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	72"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		80.0	120.0				
53-1/8"		80.0	120.0				
19-1/8"	74-1/4"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		80.0	120.0				
53-1/8"		80.0	120.0				
19-1/8"	78"	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		80.0	120.0				
53-1/8"		80.0	120.0				

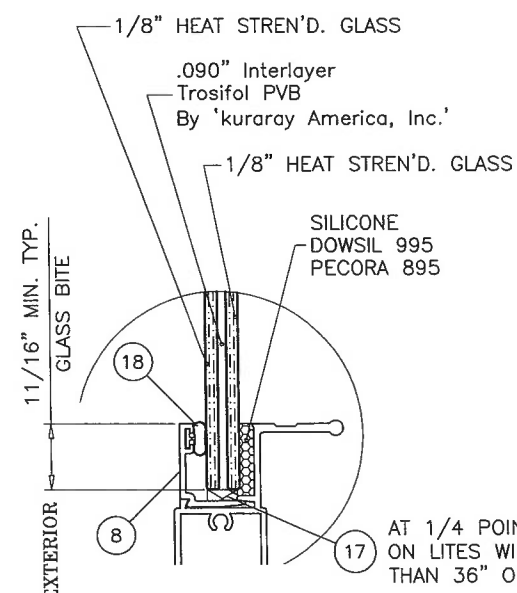
\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



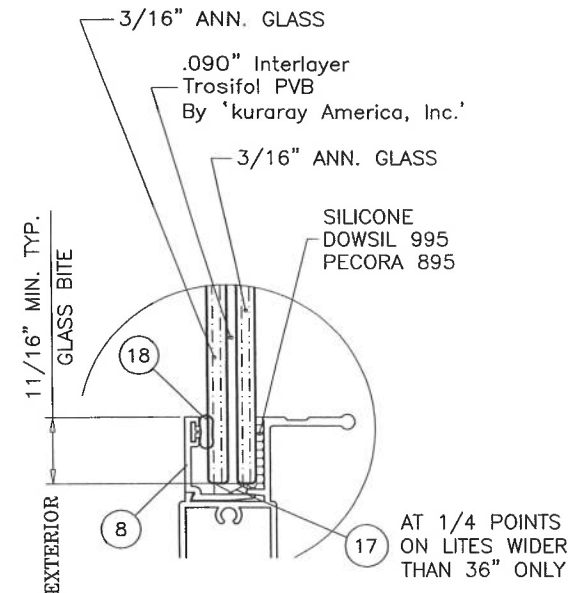
EQUAL LITES



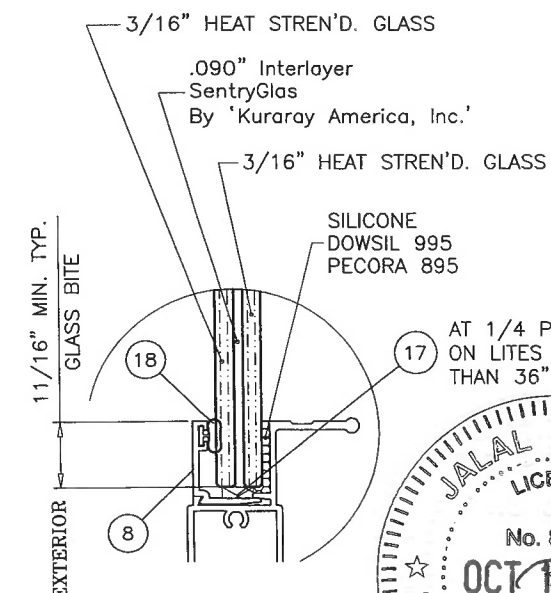
GLASS TYPE 'A'



GLASS TYPE 'C'



GLASS TYPE 'B'

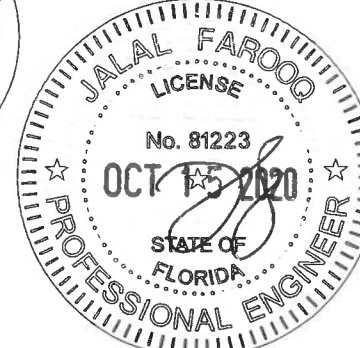


GLASS TYPE 'D'

GLAZING OPTIONS

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-0828.15**  
Expiration Date: **10/20/2026**  
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

SERIES 100 ALUM SINGLE HUNG WDW. (L.M.I.)

Labrador & Fundora Corp.  
dba-V & V Windows  
2355 West 4th Ave.  
Hialeah, FL 33010  
TEL. (305) 888-4151 FAX. (305) 888-1042

revisions:

NO.	DATE	DESCRIPTION
A	10.04.11	NO CHANGE THIS SHEET
B	02.06.15	UPDATED TO 2014 FBC
C	07.28.15	REV. PER PER COMMENTS
D	09.27.17	UPDATED TO 2017 FBC
E	07.14.20	UPDATED TO 2020 FBC

date: 07-15-11 scale: - dr. by: TARIQ chg. by:

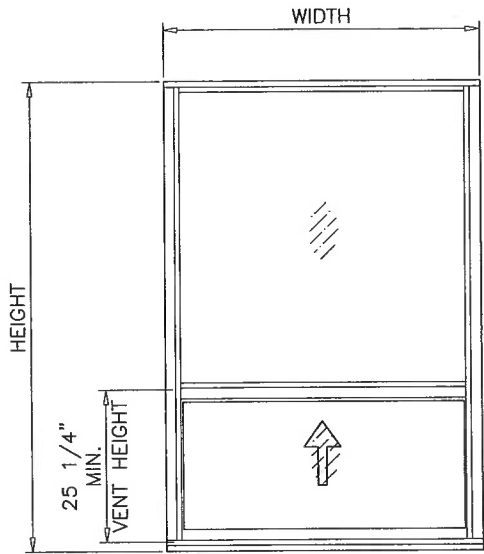
drawing no. **W11-38**

sheet 2 of 7

UNEQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF 2 ANCHORS AT MTG. STILE ENDS							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPES 'B' & 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	50-5/8" (6)	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		60.0	60.0	75.0	75.0	80.0	116.1
19-1/8"	58" (6)	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		60.0	60.0	75.0	75.0	80.0	120.0
53-1/8"		-	-	75.0	75.0	80.0	107.4
19-1/8"	60" (7)	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		-	-	75.0	75.0	80.0	120.0
53-1/8"		-	-	75.0	75.0	80.0	105.8
19-1/8"	63" (7)	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		60.0	60.0	75.0	75.0	80.0	120.0
42"		60.0	60.0	75.0	75.0	80.0	120.0
48"		-	-	75.0	75.0	80.0	120.0
53-1/8"		-	-	75.0	75.0	80.0	103.8
19-1/8"	72" (8)	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		-	-	75.0	75.0	80.0	120.0
42"		-	-	75.0	75.0	80.0	120.0
48"		-	-	-	-	80.0	120.0
53-1/8"		-	-	-	-	80.0	100.6
19-1/8"	74-1/4" (8)	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		-	-	75.0	75.0	80.0	120.0
42"		-	-	75.0	75.0	80.0	120.0
48"		-	-	-	-	80.0	120.0
53-1/8"		-	-	-	-	80.0	100.4
19-1/8"	78" (8)	60.0	60.0	75.0	75.0	80.0	120.0
26-1/2"		60.0	60.0	75.0	75.0	80.0	120.0
37"		-	-	75.0	75.0	80.0	120.0
42"		-	-	-	-	80.0	120.0
48"		-	-	-	-	80.0	120.0
53-1/8"		-	-	-	-	80.0	100.4

UNEQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF 3 ANCHORS AT MTG. STILE ENDS							
WINDOW DIMS.		GLASS TYPE 'D'					
WIDTH	HEIGHT	EXT.(+)	INT.(-)				
19-1/8"	50-5/8" (6)	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	58" (6)	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	60" (7)	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	63" (7)	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	72" (8)	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	74-1/4" (8)	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				
19-1/8"	78" (8)	-	-				
26-1/2"		-	-				
37"		-	-				
42"		-	-				
48"		-	-				
53-1/8"		80.0	120.0				

\* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



UNEQUAL LITES (ORIEL TYPE)

PRODUCT REVISED  
as complying with the Florida  
Building Code  
NOA-No. 20-0828.15  
Expiration Date: 10/20/2026  
By: Manuel Perez  
Miami-Dade Product Control



**a f c**

**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)

SERIES 100 ALUM SINGLE HUNG WDW. (L.M.I.)

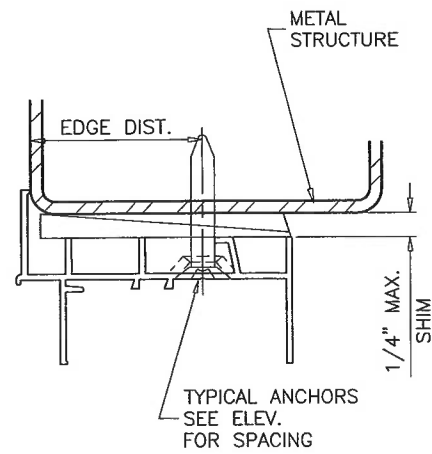
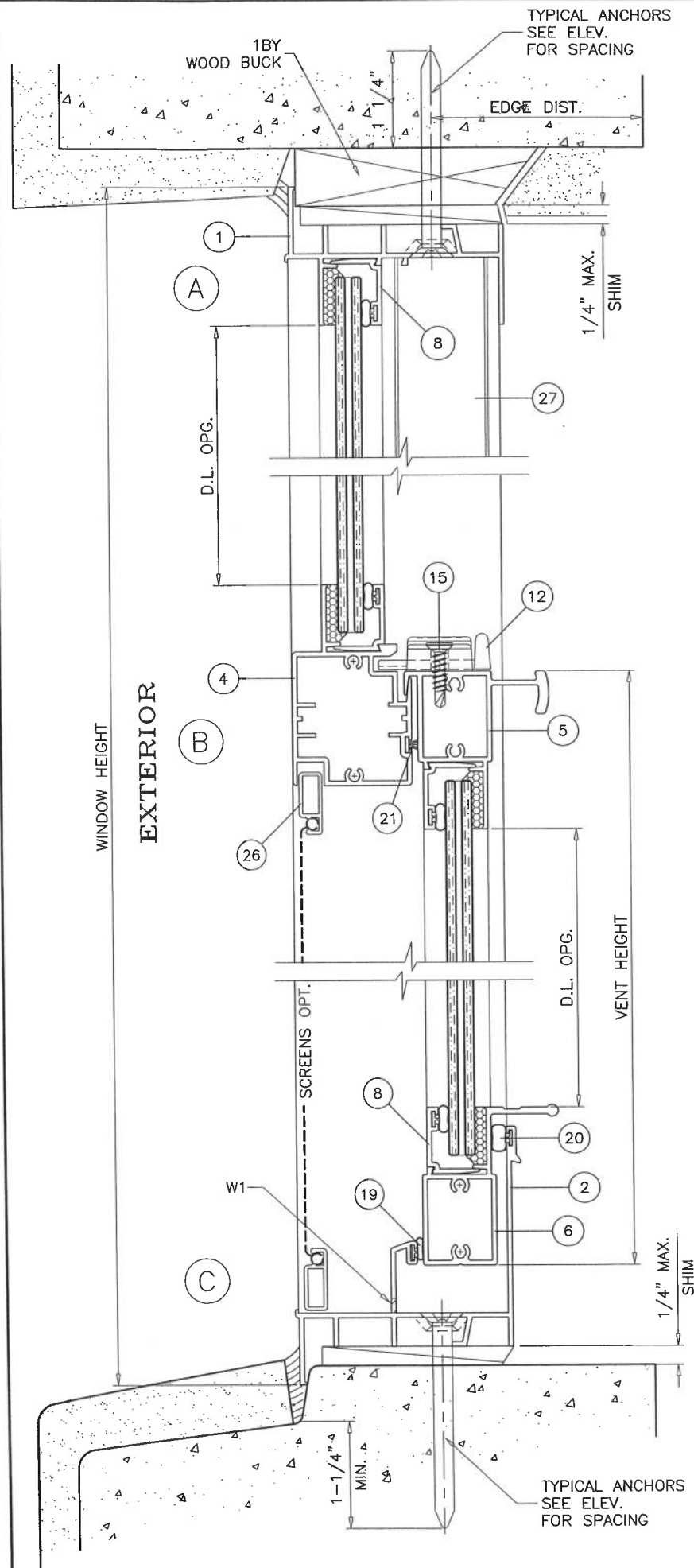
Labrador & Fundora Corp.  
dba-V & V Windows  
2355 West 4th Ave.  
Hialeah, FL 33010  
TEL. (305) 888-4151 FAX. (305) 888-1042

revisions:  
no. date by description  
A 10.04.11 NO CHANGE THIS SHEET  
B 02.06.15 UPDATED TO 2014 FBC  
C 07.28.15 REV. PER RER COMMENTS  
D 09.27.17 UPDATED TO 2017 FBC  
E 07.14.20 EDITORIAL CHANGES

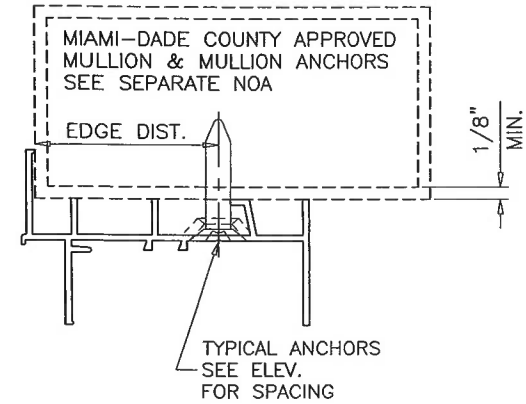
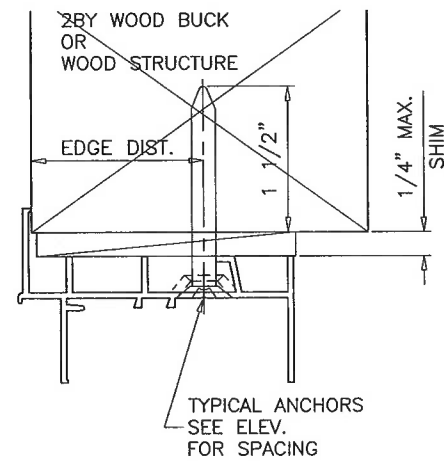
date: 07-15-11  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**W11-38**  
sheet 3 of 7





WOOD BUCKS AND METAL STRUCTURE NOT BY 'V & V WDW.' 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'** (Fu=164 KSI, Fy=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 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" 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. PENETRATION BEYOND SUBSTRATE ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL EDGE DISTANCE**

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

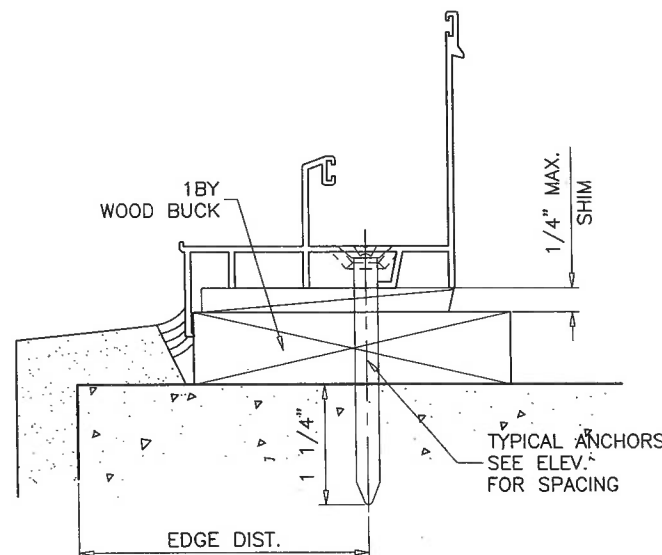
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
C-90 HOLLOW/FILLED NORMAL WEIGHT BLOCK AT JAMBS f'm = 2000 PSI MIN.

**WEEPHOLES:**

W1 = 3/16" X 3/4" WEEP SLOT AT 1-3/8" FROM EACH END

**SEALANT:**

ALL FRAME AND VENT CORNERS, INSTALLATION SCREWS AT SILL AND ALL METAL PARTS CONNECTIONS SEALED WITH PTI SILICONE.



**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **20-0828.15**  
Expiration Date: **10/20/2026**  
By: *Manuel Torres*  
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  
C.A.N. 3538

SERIES 100 ALUM SINGLE HUNG WDW. (L.M.I.)  
Labrador & Fundora Corp.  
dba-V & V Windows  
2355 West 4th Ave.  
Hialeah, FL 33010  
TEL. (305) 888-4151 FAX. (305) 888-1042

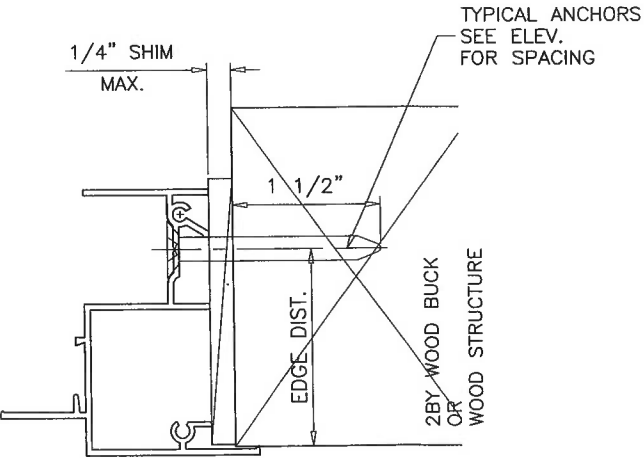
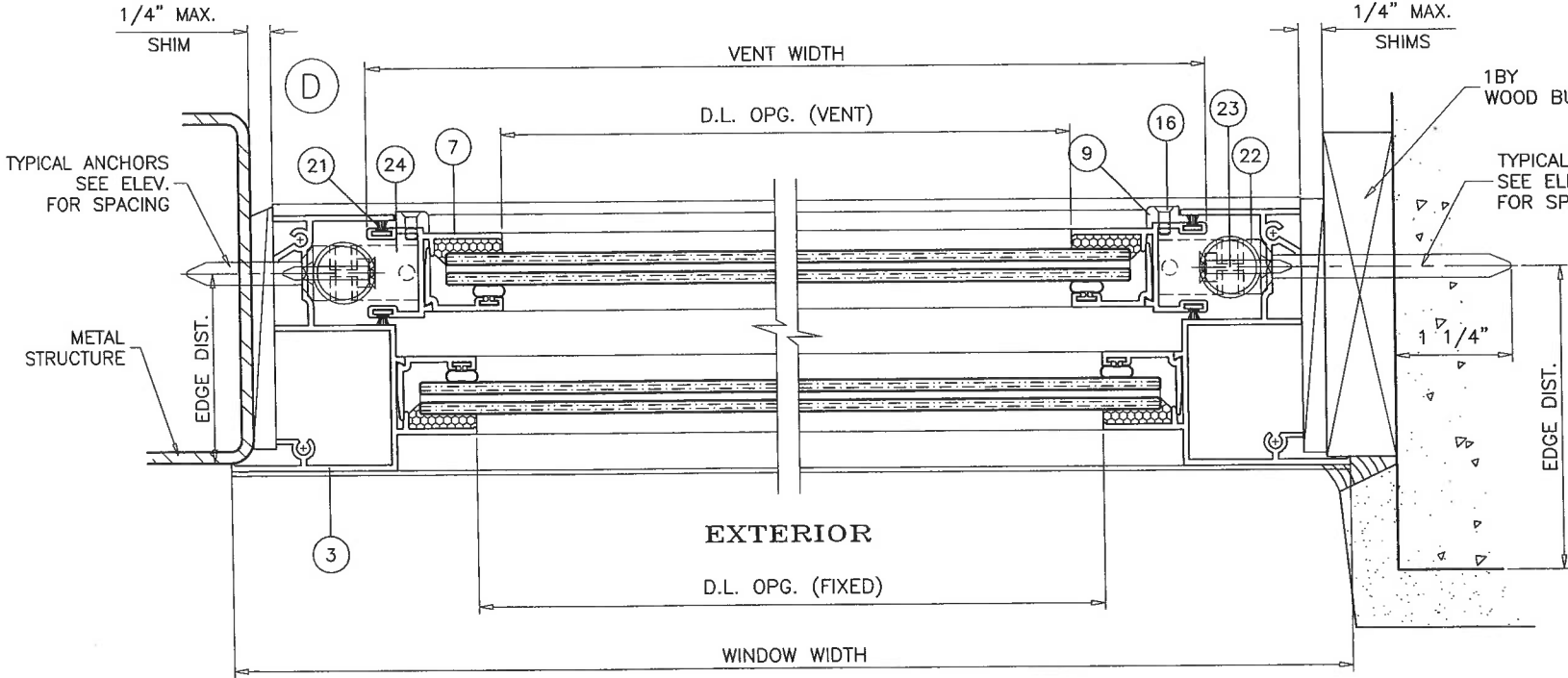
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A	10.04.11	REV. PER BNC COMMENTS	
B	02.06.15	UPDATED TO 2014 FBC	
C	07.28.15	REV. PER PER COMMENTS	
D	09.27.17	UPDATED TO 2017 FBC	
E	07.14.20	UPDATED TO 2020 FBC	

date: 07-15-11  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W11-38**  
sheet 4 of 7



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	V101	1	FRAME HEAD	6063-T6	-
2	V102	1	FRAME SILL	6063-T6	-
3	V103	2	FRAME JAMB	6063-T6	-
4	V104	1/ VENT	FIXED MTG. RAIL	6063-T6	-
5	V105	1/ VENT	VENT TOP RAIL	6063-T6	-
6	V106	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
7	V107	2/ VENT	VENT SIDE RAIL	6063-T6	-
8	V108	AS REQD.	GLAZING BEAD	6063-T6	-
9	V109	4	SASH GUIDE	NYLON	-
10A	-	AS REQD.	1X4 STD. MULLION	6063-T6	-
10B	-	AS REQD.	1X4 CUSTOM MULLION	6063-T6	-
12	SL203	2/ VENT	SWEEP LATCH	-	SULLIVAN & ASSOC.
13	#8 X 1-1/4"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	-	PH SMS
14	#8 X 1/2"	2	BOTTOM RAIL LOWER SCREW	-	PH SMS
15	#8 X 1/2"	2	LATCH INSTALLATION SCREW	-	OH SMS
16	#6 X 1"	4	SASH GUIDE INSTALLATION SCREW	-	OH SMS
17	-	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
18	9146QU	AS REQD.	GLAZING BEAD BULB	NEOPRENE	ULTRAFAB, DUAL DUROMETER, T-SLOT=50, BULB=73
19	9146QU	AS REQD.	BULB SEAL	NEOPRENE	ULTRAFAB, DUAL DUROMETER, T-SLOT=50, BULB=73
20	-	AS REQD.	FRAME SILL W'STRIPPING	NEOPRENE	-
21	W222122G	AS REQD.	FIN SEAL W'STRIPPING	WOOL	ULTRAFAB
22	-	2	SUPERBOOST BALANCES	-	BALANCE SYSTEMS INC.
23	#10 X 1"	1/ BALANCE	BALANCE MOUNTING SCREWS	-	FH SMS
24	-	1/ BALANCE	BALANCE CONNECTING CLIP	-	-
25	#8 X 1/2"	2/ BALANCE	CONNECTING CLIP SCREWS	-	OH SMS
26	-	AS REQD.	5/16" BOX SCREEN	-	OPTIONAL
27	2/ WDW.	AS REQD.	SASH STOP (3" LONG)	RIGID PVC	-



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-0828.15**  
Expiration Date: **10/20/2026**  
By: *Manuel Ferrer*  
Miami-Dade Product Control



**afC**

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

SERIES 100 ALUM SINGLE HUNG WDW. (L.M.I.)

Labrador & Fundora Corp.  
dba-V & V Windows  
2355 West 4th Ave.  
Hialeah, FL 33010  
TEL. (305) 888-4151  
FAX. (305) 888-1042

no	date	by	description
A	10.04.11	REV. PER BNC COMMENTS	
B	02.06.15	UPDATED TO 2014 FBC	
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E	07.14.20	EDITORIAL CHANGES	

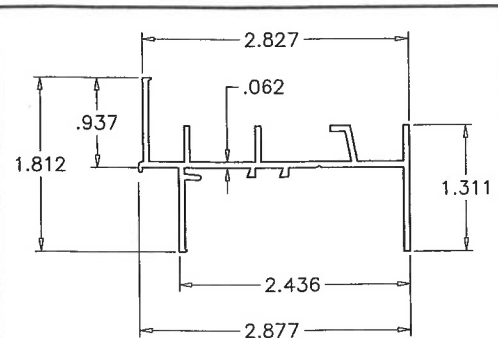
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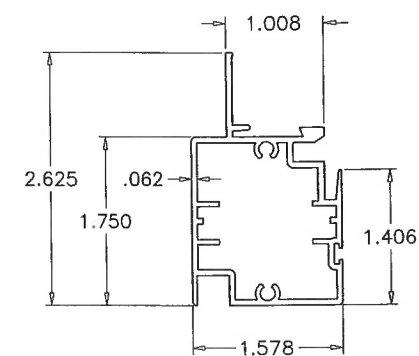
dr. by: TARIQ

chk. by:

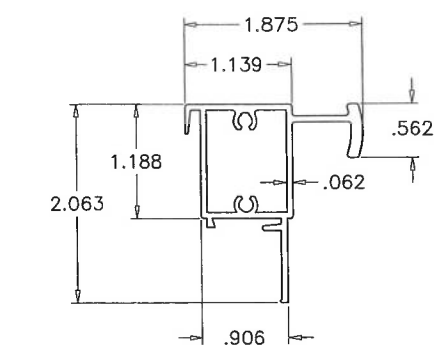
drawing no.  
**W11-38**  
sheet 5 of 7



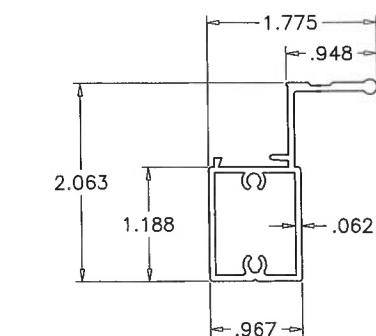
1 FRAME HEAD



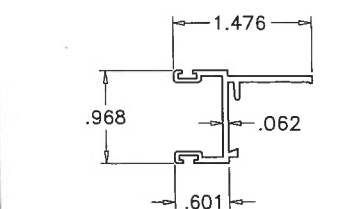
4 FIXED MEETING RAIL



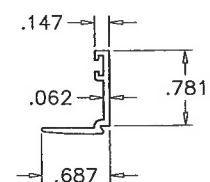
5 VENT TOP RAIL



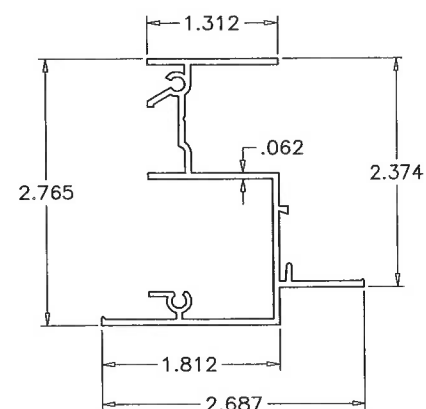
6 VENT BOTTOM RAIL



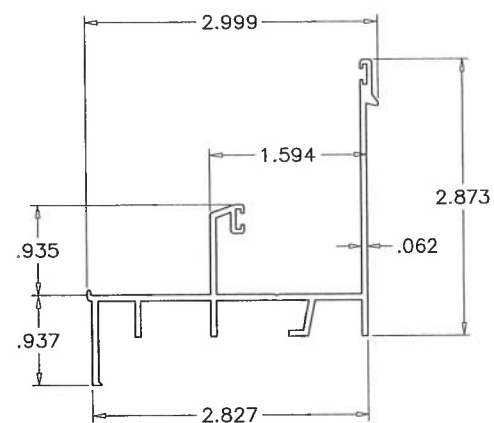
7 VENT SIDE RAIL



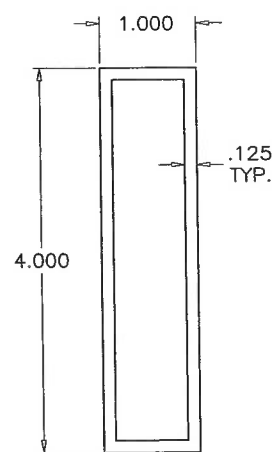
8 GLAZING BEAD



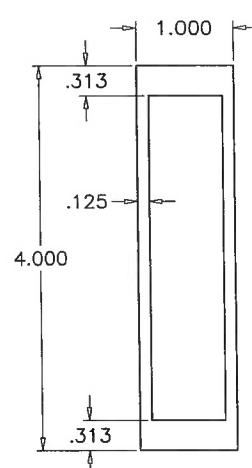
3 FRAME JAMB



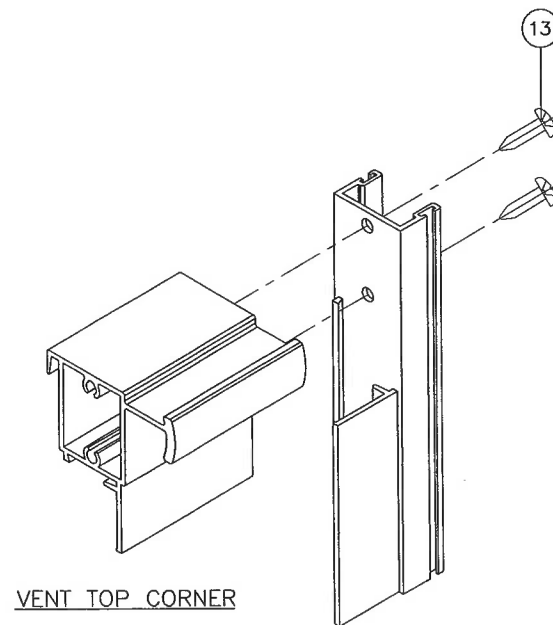
2 FRAME SILL



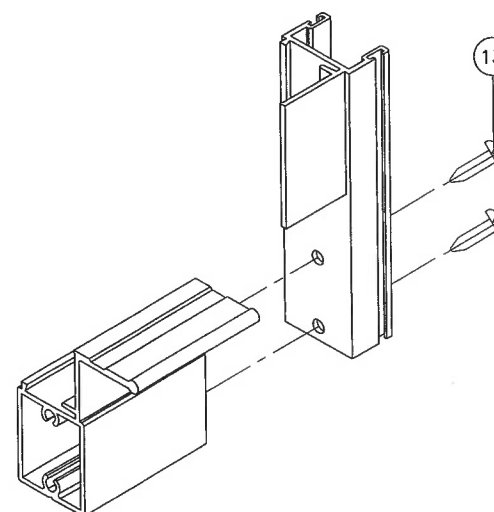
10A 1 X 4  
STD. MULLION  
6063-T6



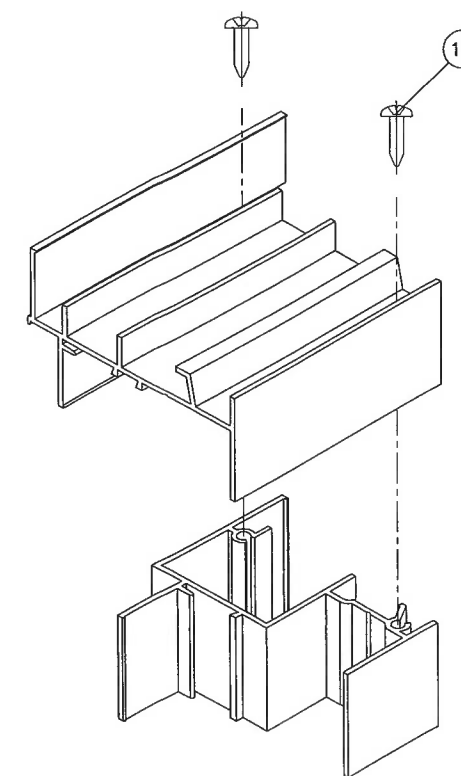
10B 1 X 4  
CUSTOM MULLION  
6063-T6



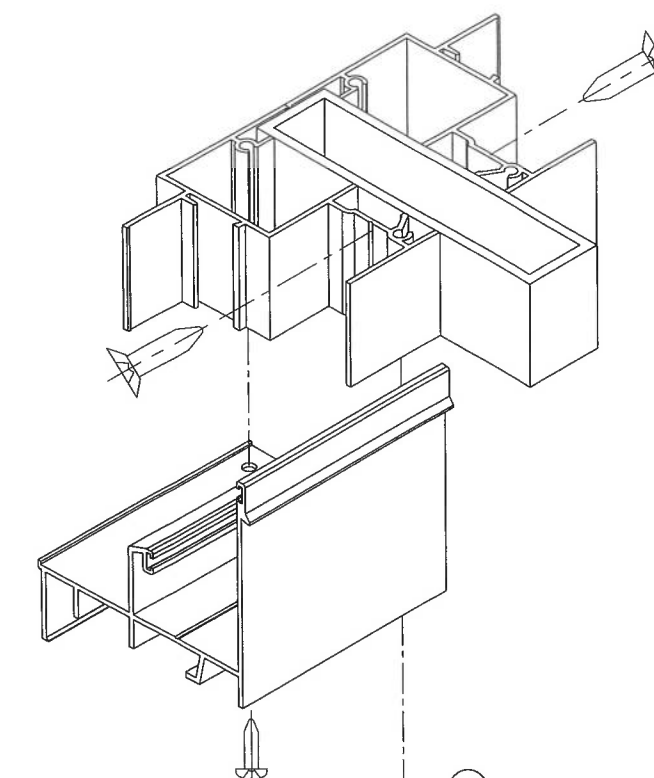
VENT TOP CORNER



VENT BOTTOM CORNER

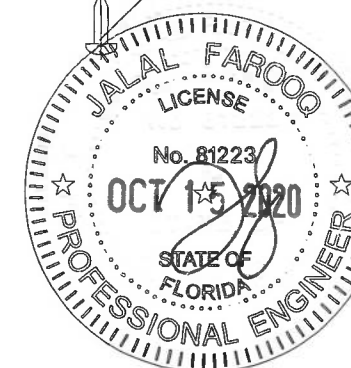


FRAME TOP CORNER



FRAME BOTTOM CORNER

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **20-0828.15**  
Expiration Date: **10/20/2026**  
By: *Manuel Ferns*  
Miami-Dade Product Control



**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W11-38VV

SERIES 100 ALUM SINGLE HUNG WDW. (L.M.I.)  
**Labrador & Fundora Corp.**  
dba-V & V Windows  
2355 West 4th Ave.  
Hialeah, FL 33010  
TEL. (305) 888-4151 FAX. (305) 888-1042

revisions:	no	date	by	description
	A	10.04.11	REV.	PER BNC COMMENTS
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	E	07.14.20	EDITORIAL	CHANGES

date: 07-15-11  
scale: 1/2" = 1"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W11-38**  
sheet 6 of 7

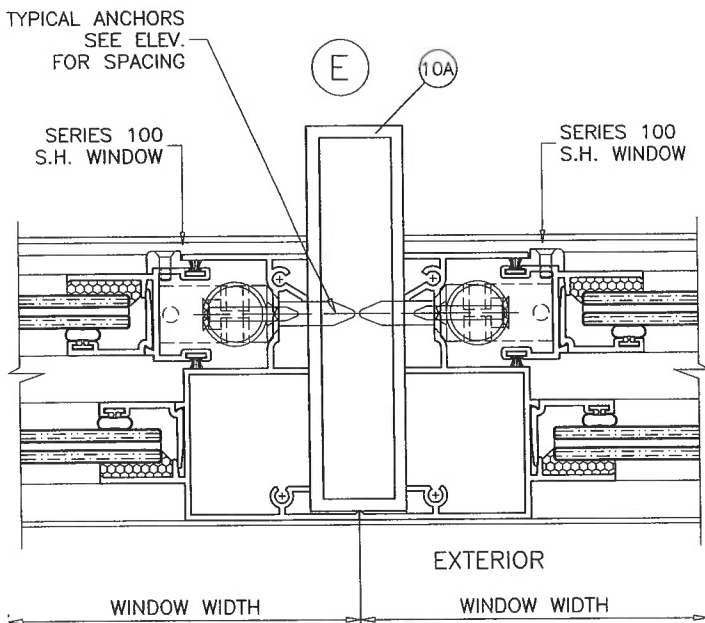


MULLION LOAD CAPACITY - PSF					
WINDOW DIMS.		2 ANCHORS AT EACH SIDE OF MULL		3 ANCHORS AT EACH SIDE OF MULL	
		1 X 4 STD. MULL	1 X 4 CUSTOM MULL	1 X 4 STD. MULL	1 X 4 CUSTOM MULL
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
19-1/8"	50-5/8"	120.0	120.0	120.0	120.0
26-1/2"		120.0	120.0	120.0	120.0
37"		120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
53-1/8"		120.0	120.0	120.0	120.0
19-1/8"	58"	120.0	120.0	120.0	120.0
26-1/2"		120.0	120.0	120.0	120.0
37"		120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
53-1/8"		120.0	120.0	120.0	120.0
19-1/8"	60"	120.0	120.0	120.0	120.0
26-1/2"		120.0	120.0	120.0	120.0
37"		120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0
53-1/8"		116.7	116.7	120.0	120.0
19-1/8"	63"	120.0	120.0	120.0	120.0
26-1/2"		120.0	120.0	120.0	120.0
37"		120.0	120.0	120.0	120.0
42"		117.6	117.6	120.0	120.0
48"		110.8	110.8	120.0	120.0
53-1/8"		107.1	107.1	120.0	120.0
19-1/8"	72"	120.0	120.0	120.0	120.0
26-1/2"		120.0	120.0	120.0	120.0
37"		104.8	104.8	120.0	120.0
42"		96.8	96.8	120.0	120.0
48"		90.0	90.0	115.0	120.0
53-1/8"		85.9	85.9	108.2	120.0
19-1/8"	74-1/4"	120.0	120.0	120.0	120.0
26-1/2"		120.0	120.0	120.0	120.0
37"		100.5	100.5	120.0	120.0
42"		92.7	92.7	117.5	120.0
48"		86.0	86.0	106.8	120.0
53-1/8"		81.9	81.9	100.2	120.0
19-1/8"	78"	120.0	120.0	120.0	120.0
26-1/2"		120.0	120.0	120.0	120.0
37"		94.2	94.2	116.4	120.0
42"		86.6	86.6	104.9	120.0
48"		80.0	80.0	94.9	119.2
53-1/8"		75.9	75.9	88.7	111.4

**NOTES:**

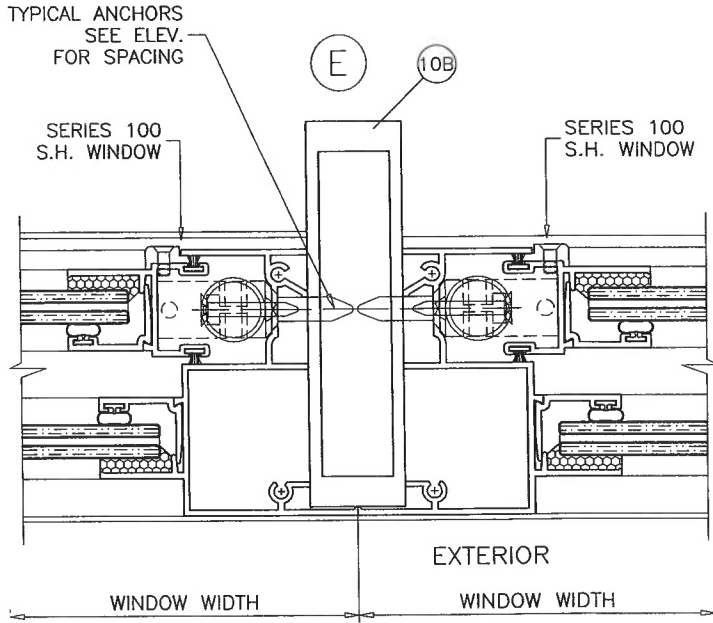
- USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
- FOR SINGLE HUNG WINDOW CAPACITY SEE SHEETS 2 & 3.
- LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

**UN-CLIPPED MULLIONS**



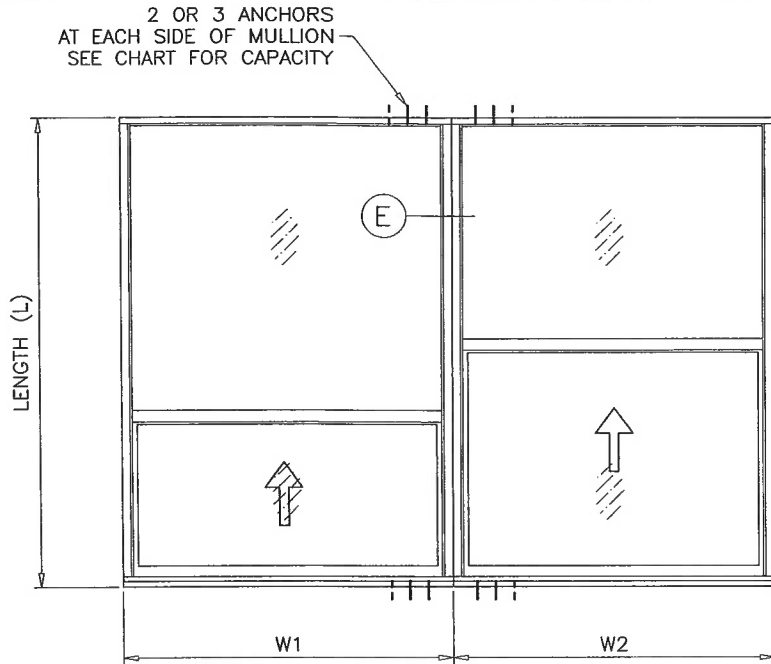
**1X4 STD. MULLION**

**TOTAL PRPERTIES**  
 $I_x = 3.2036 \text{ IN}^4$   
 $S_x = 1.6018 \text{ IN}^3$



**1X4 CUSTOM MULLION**

**TOTAL PRPERTIES**  
 $I_x = 4.0996 \text{ IN}^4$   
 $S_x = 2.0498 \text{ IN}^3$



**TYPICAL ELEVATION**  
**SIDE BY SIDE WINDOWS**  
 SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

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

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
**NOA-No. 20-0828.15**  
**Expiration Date: 10/20/2026**  
 By: *Manuel Perez*  
**Miami-Dade Product Control**



**afC**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 262-6978 FAX. (305) 262-6978  
 COMP-ANL\W11-38W

**SERIES 100 ALUM SINGLE HUNG WDW. (L.M.I.)**  
**Labrador & Fundora Corp.**  
**dba-V & V Windows**  
 2355 West 4th Ave.  
 Hialeah, FL 33010  
 TEL. (305) 888-4151 FAX. (305) 888-1042

revisions:	no	date	by	description
	A	10.04.11		REV. PER BNC COMMENTS
	B	02.06.15		UPDATED TO 2014 FBC
	C	07.28.15		NO CHANGE THIS SHEET
	D	09.27.17		UPDATED TO 2017 FBC
	E	07.14.20		EDITORIAL CHANGES

date: 07-15-11  
 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W11-38**  
 sheet 7 of 7