



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/economy

Labrador & Fundora Corp. dba V & V Windows
14150 NW 56th 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 "450" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W14-29**, titled "Series-450 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 4, 4.1, 5 and 6 of 6, dated 08/20/14, with revision F dated 06/23/26, 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.

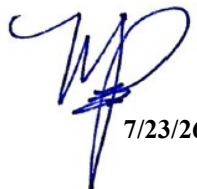
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 NOA No. 24-0425.04** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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




7/23/26

NOA No. 26-0709.10
Expiration Date: December 24, 2029
Approval Date: July 30, 2026
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

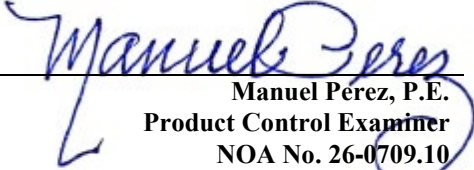
1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 14-0909.16)
2. Drawing No. **W14-29**, titled "Series-450 Aluminum Fixed Wdw. (L.M.I.)", sheets 1 through 4, 4.1, 5 and 6 of 6, dated 08/20/14, with revision E dated 04/17/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 24-0425.04)

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
along with marked-up drawings and installation diagram of mulled aluminum fixed and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5009**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mulled aluminum fixed and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5010**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
3. 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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of mulled aluminum operable casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5011**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mulled aluminum operable casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. Report No. **HETI-14-5012**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)

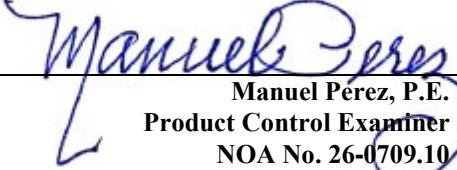

Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0709.10
Expiration Date: December 24, 2029
Approval Date: July 30, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

B. TESTS (CONTINUED)

5. 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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5013**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
6. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed casement windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5014**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
7. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5015**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
8. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum operable casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5016**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
9. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5017**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0709.10
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

B. TESTS (CONTINUED)

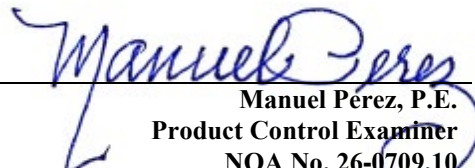
- 10.** Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5018**, dated 06/11/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
- 11.** 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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum operable casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5019**, dated 04/23/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)
- 12.** Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of mulled aluminum operable casement and fixed windows, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HETI-14-5052**, dated 10/21/14, signed and sealed by Rafael E. Droz-Seda, P.E.
(Submitted under NOA No. 14-0909.16)

C. CALCULATIONS

- 1.** Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 01/16/19 and updated on 09/10/20 to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 20-0929.15)
- 2.** Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0709.10
Expiration Date: December 24, 2029
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Labrador & Fundora Corp. dba V & V Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

E. MATERIAL CERTIFICATIONS

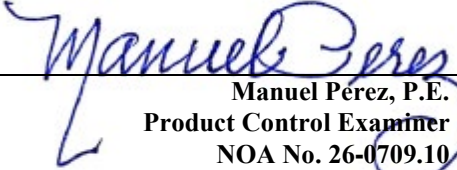
1. Notice of Acceptance No. **23-0713.18** issued to **Eastman Chemical Company (MA)** for their "**Saflex® PVB Clear and Colored Interlayers for Laminated Glass**" dated 08/17/23, expiring on 05/21/26.
2. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 08/31/23, expiring on 07/04/28.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)** and of no financial interest, dated April 23, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
(Submitted under NOA No. 24-0425.04)
2. Proposal issued by the Product Control Section, dated August 27, 2013, signed by Jaime D. Gascon, P.E., Product Control Supervisor.
(Submitted under NOA No. 14-0909.16)

G. OTHERS

1. Notice of Acceptance No. **23-0620.05** issued to Labrador & Fundora Corp. dba V & V Windows for their Series "450" Aluminum Fixed Window - L.M.I., approved on 07/06/23 and expiring on 12/24/24.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0709.10
Expiration Date: December 24, 2029
Approval Date: July 30, 2026

Labrador & Fundora Corp. dba V & V Windows

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W14-29**, titled “Series-450 Aluminum Fixed Wdw. (L.M.I.)”, sheets 1 through 4, 4.1, 5 and 6 of 6, dated 08/20/14, with revision **F** dated 06/23/26, 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 8th Edition (2023) and FBC 9th Edition (2026), dated 07/08/26, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E1300-16**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **25-0904.04** issued to **Eastman Chemical Company (MA)** for their “**Saflex PVB Interlayers - Clear and Colored for Glass**” dated 01/29/26, expiring on 05/21/31.
2. Notice of Acceptance No. **23-0717.30** issued to **Kuraray America, Inc.** for their “**SentryGlas® (Clear and White) Glass Interlayers**” dated 08/31/23, expiring on 07/04/28.

F. STATEMENTS

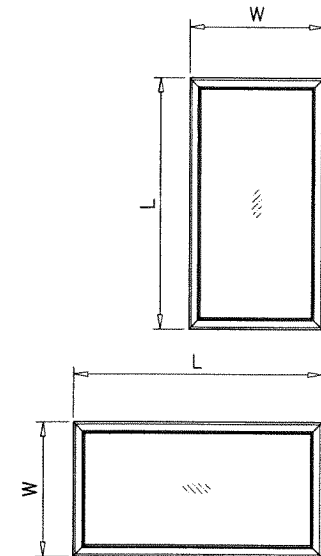
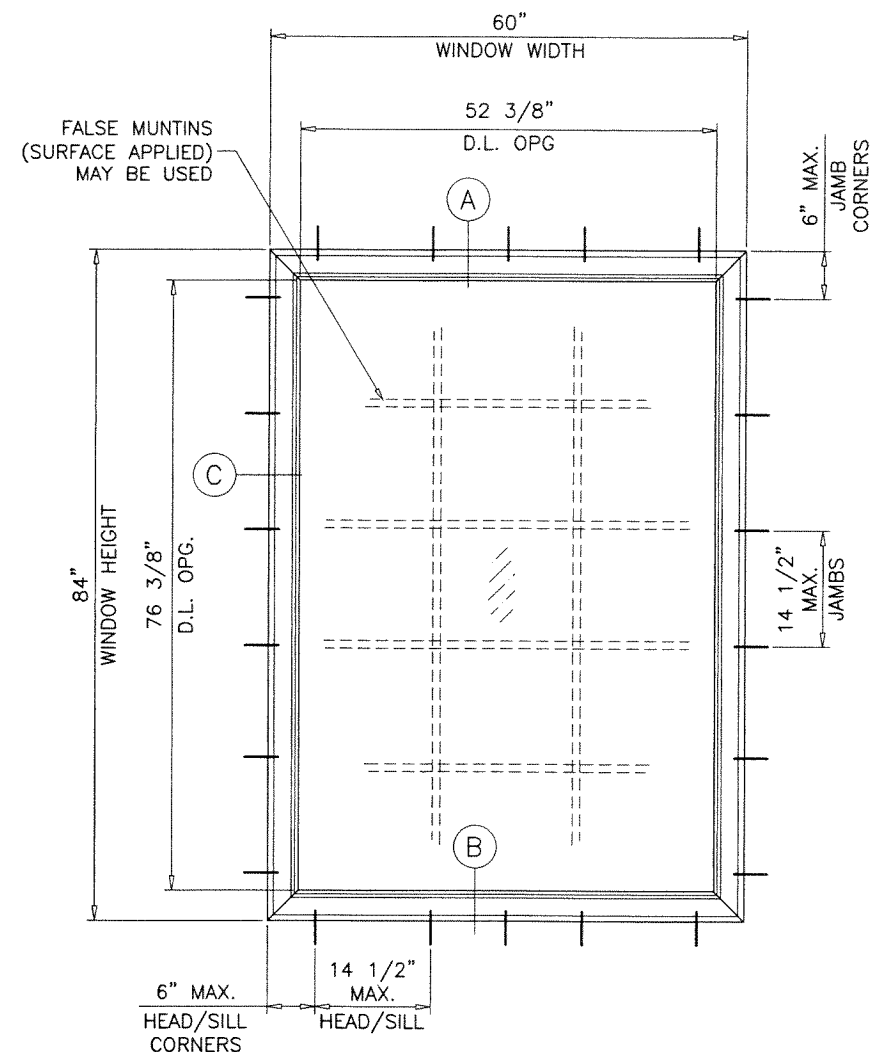
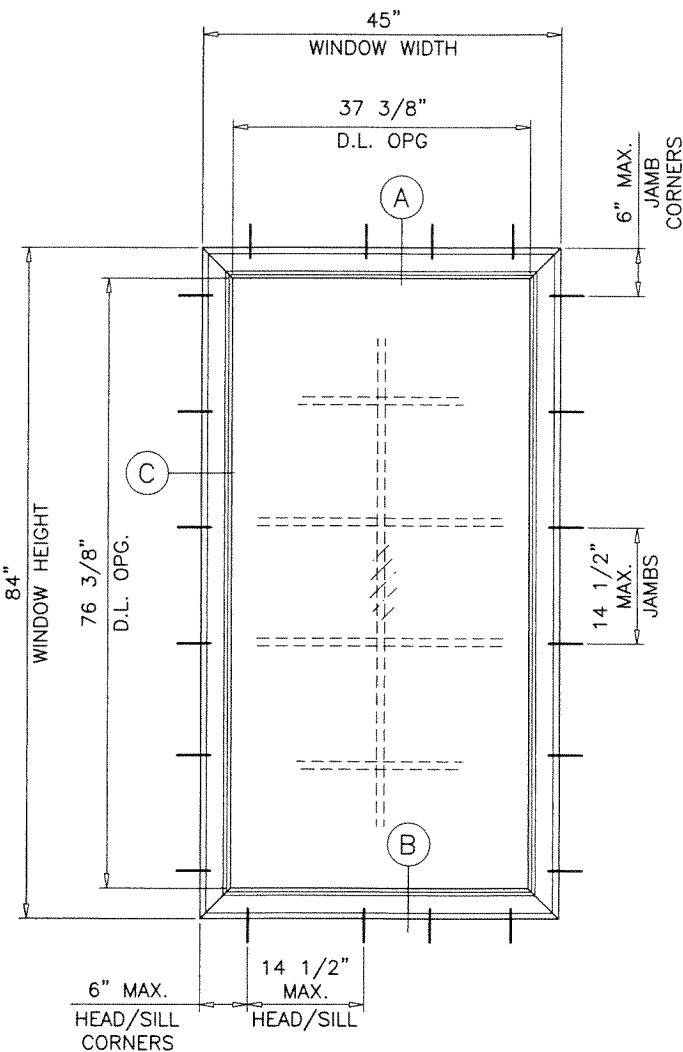
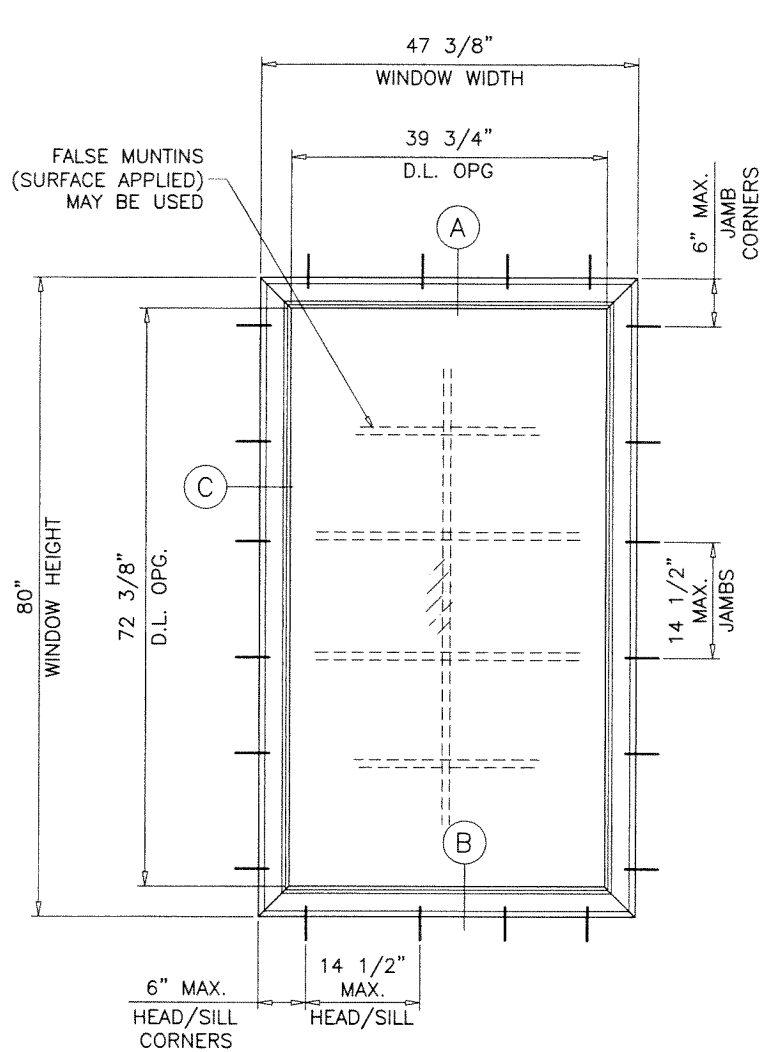
1. Statement letter of conformance, complying with **FBC 8th Edition (2023), FBC 9th Edition (2026)** and of no financial interest, dated June 29, 2026, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **24-0425.04** issued to Labrador & Fundora Corp. dba V & V Windows for their Series “450” Aluminum Fixed Window - L.M.I., approved on 05/23/24 and expiring on 12/24/29.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0709.10
Expiration Date: December 24, 2029
Approval Date: July 30, 2026

The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.



TYPICAL ELEVATIONS

GLASS TYPES 'G2L' & 'G2i'
MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
 (FOR SIZES SHOWN ABOVE OR SMALLER) **- 75.0 PSF**

TYPICAL ELEVATION

GLASS TYPES 'G1L' & 'G1i'
MAXIMUM DESIGN LOAD RATING = + 85.0 PSF
 (FOR SIZE SHOWN ABOVE OR SMALLER) **- 85.0 PSF**

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

SERIES-450
ALUMINUM FIXED WINDOW

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 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 2023 (8TH EDITION)/2026 (9TH 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 TO BE 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

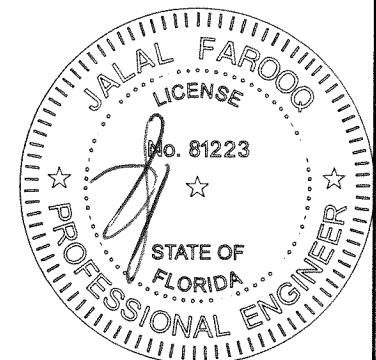
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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

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

FASTENERS AND CONNECTORS SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0709.10
Expiration Date: 12/24/2029
By: Manuel Perez
Miami-Dade Product Control



JUL 08 2026

NOTE:
 GLASS CAPACITIES ARE BASED ON
 ASTM E1300-16 (3 SEC. GUSTS)

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

SERIES-450 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
	C	07.14.20		UPDATED TO 2020 FBC
	D	06.07.23		UPDATED TO 2023 FBC
	E	04.17.24		FLUSH FRAME ADAPTER ADDED
	F	06.23.26		UPDATED TO 2026 FBC

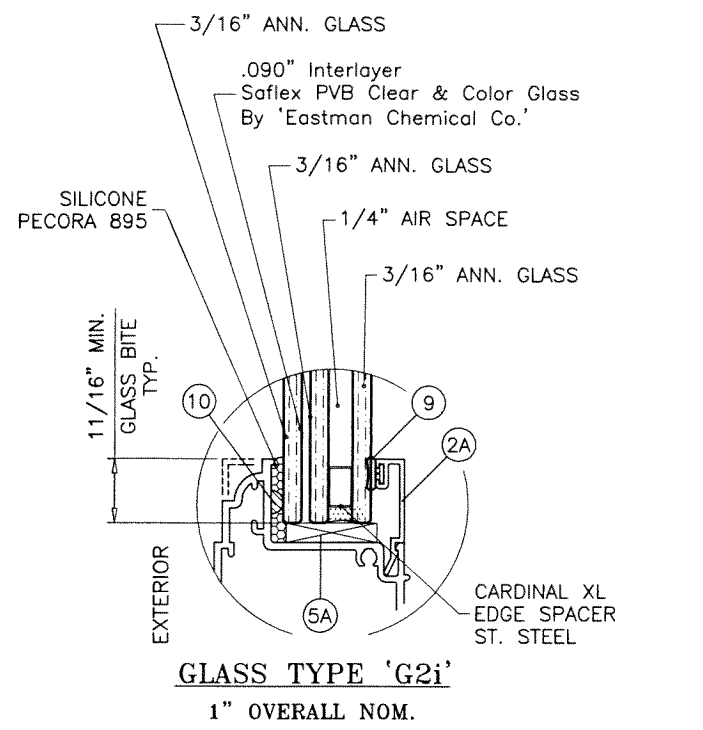
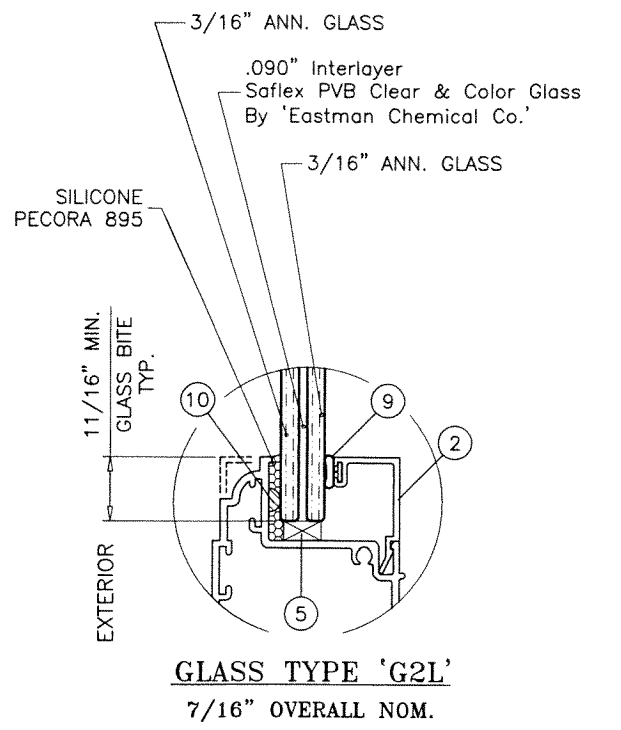
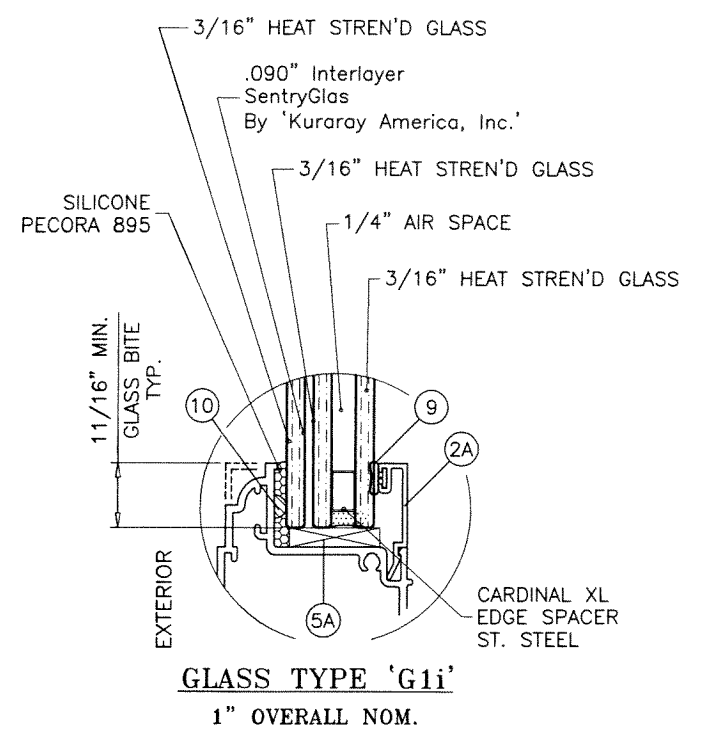
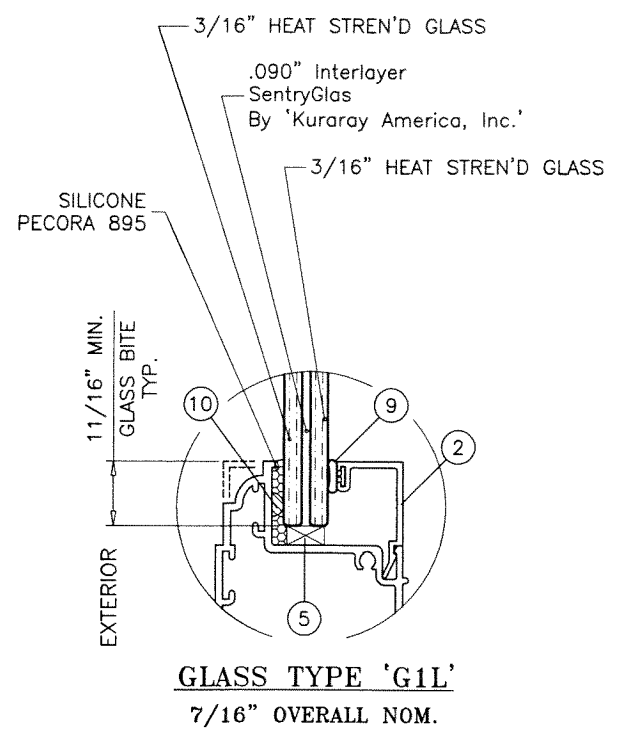
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dr. by:	TARIQ
chk. by:	

drawing no.	W14-29
sheet	1 of 6

COMP-ANL W14-29W

revisions:	no	date	description
	C	07.14.20	EDITORIAL CHANGES
	D	06.07.23	UPDATED TO 2023 FBC
	E	04.17.24	NO CHANGE THIS SHEET
	F	06.23.26	UPDATED TO 2026 FBC

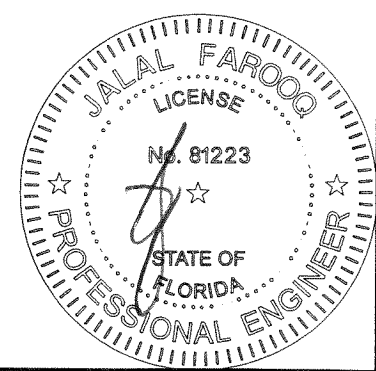
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dr. by:	TARIO
chk. by:	

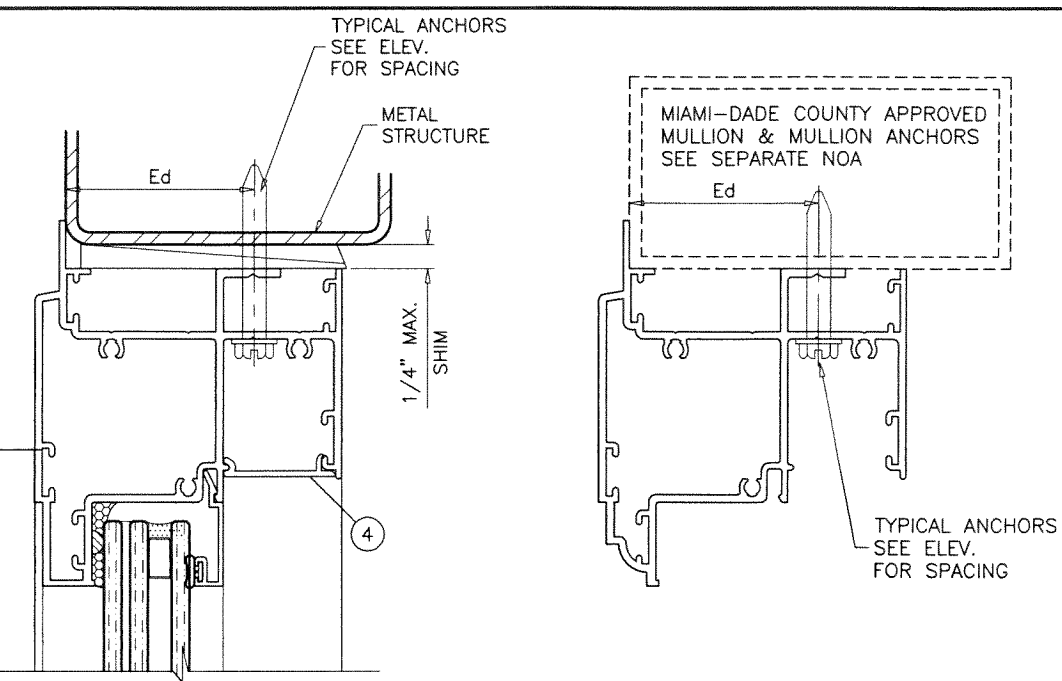
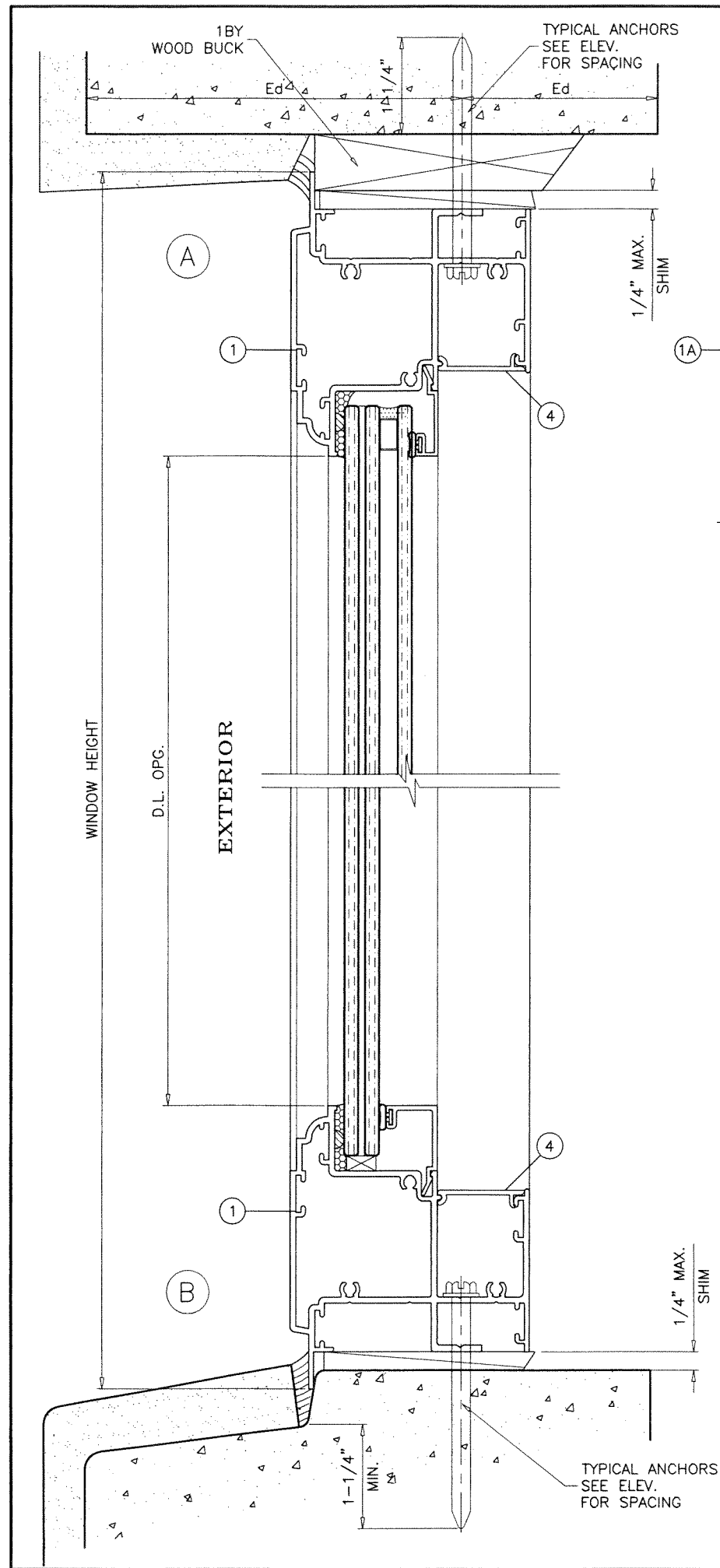


GLAZING OPTIONS

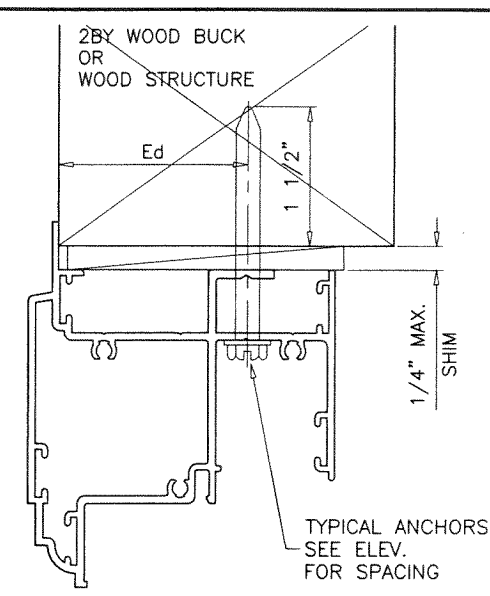
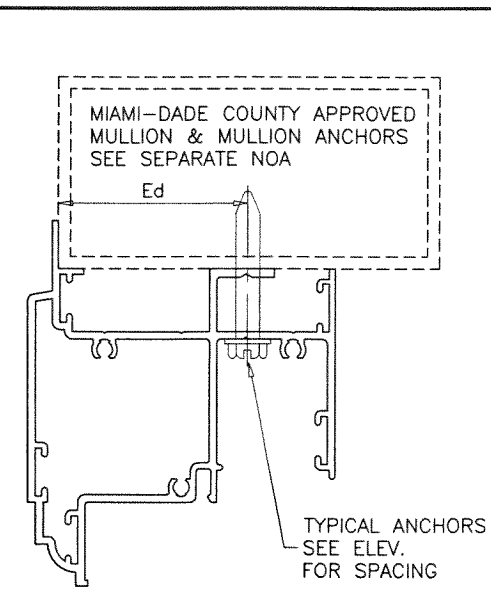
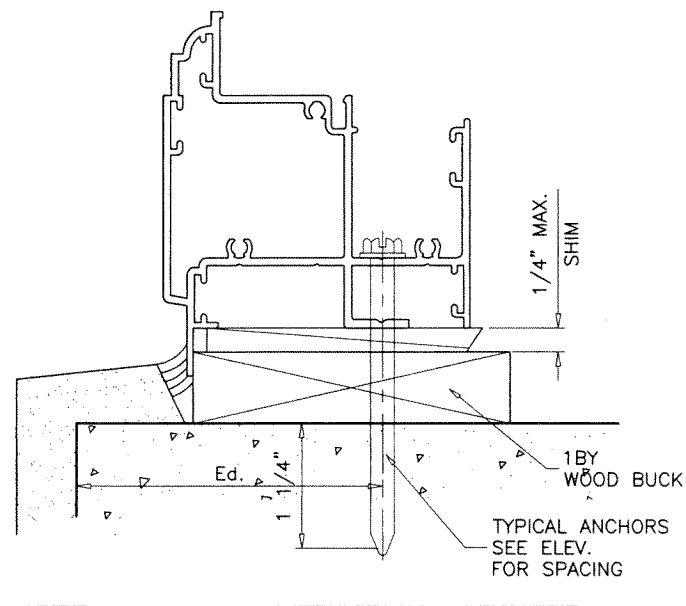
PRODUCT REVISED
 As complying with the Florida
 Building Code
 NOA-No. **26-0709.10**
 Expiration Date: **12/24/2029**
 By: *Manuel Perez*
 Miami-Dade Product Control

JUL 08 2026





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 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)

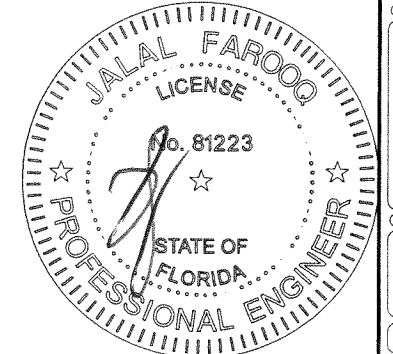
#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIM SPACE) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (NO SHIM SPACE) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

Ed = 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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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By: *Manuel Perez*
Miami-Dade Product Control



JUL 08 2026

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

COMP-ANL W14-29VV

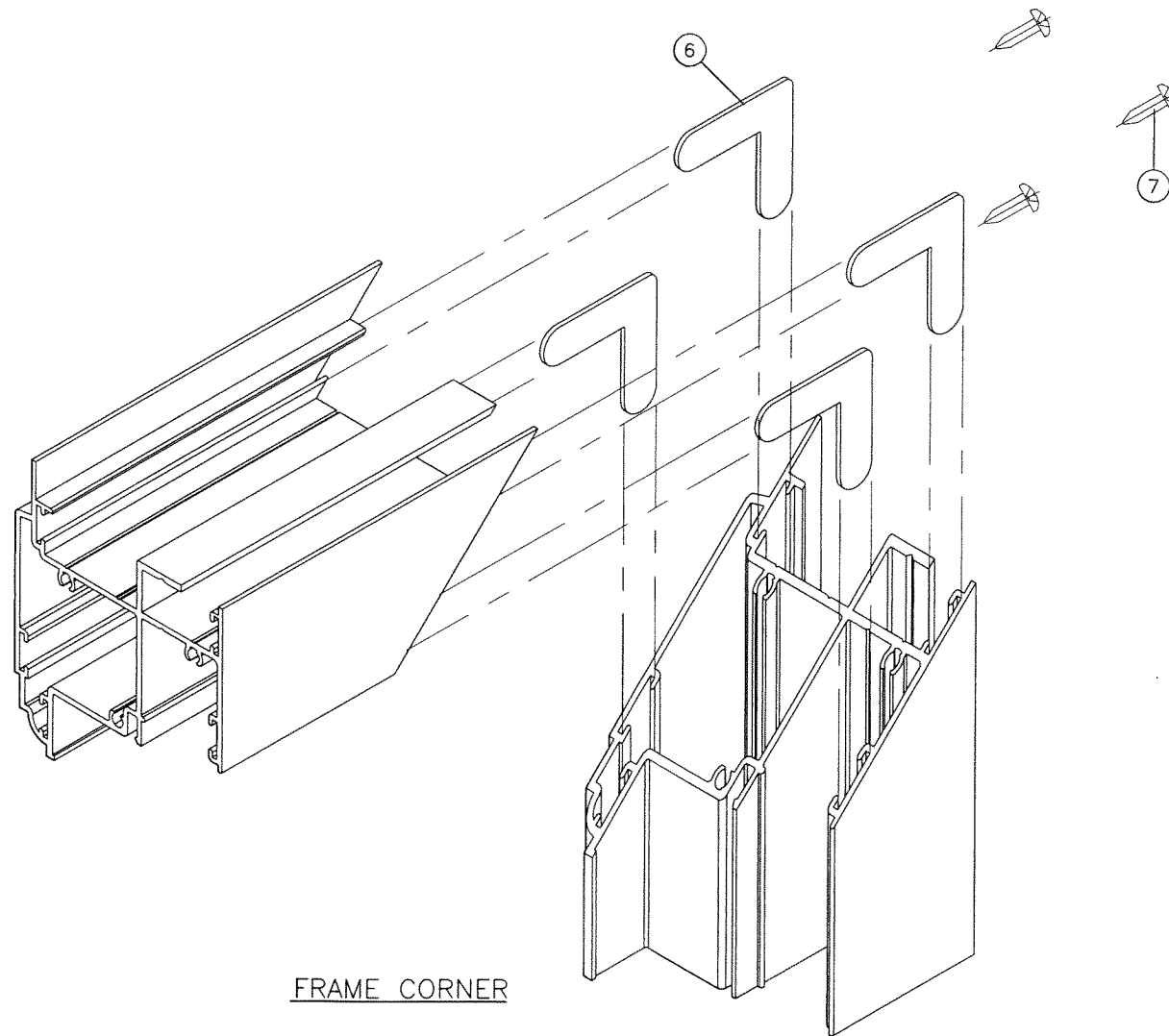
SERIES-450 ALUMINUM FIXED WDW. (L.M.I.)

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

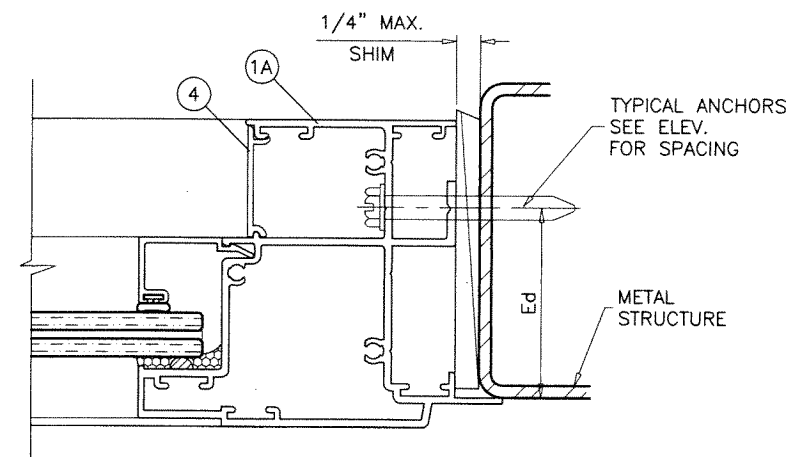
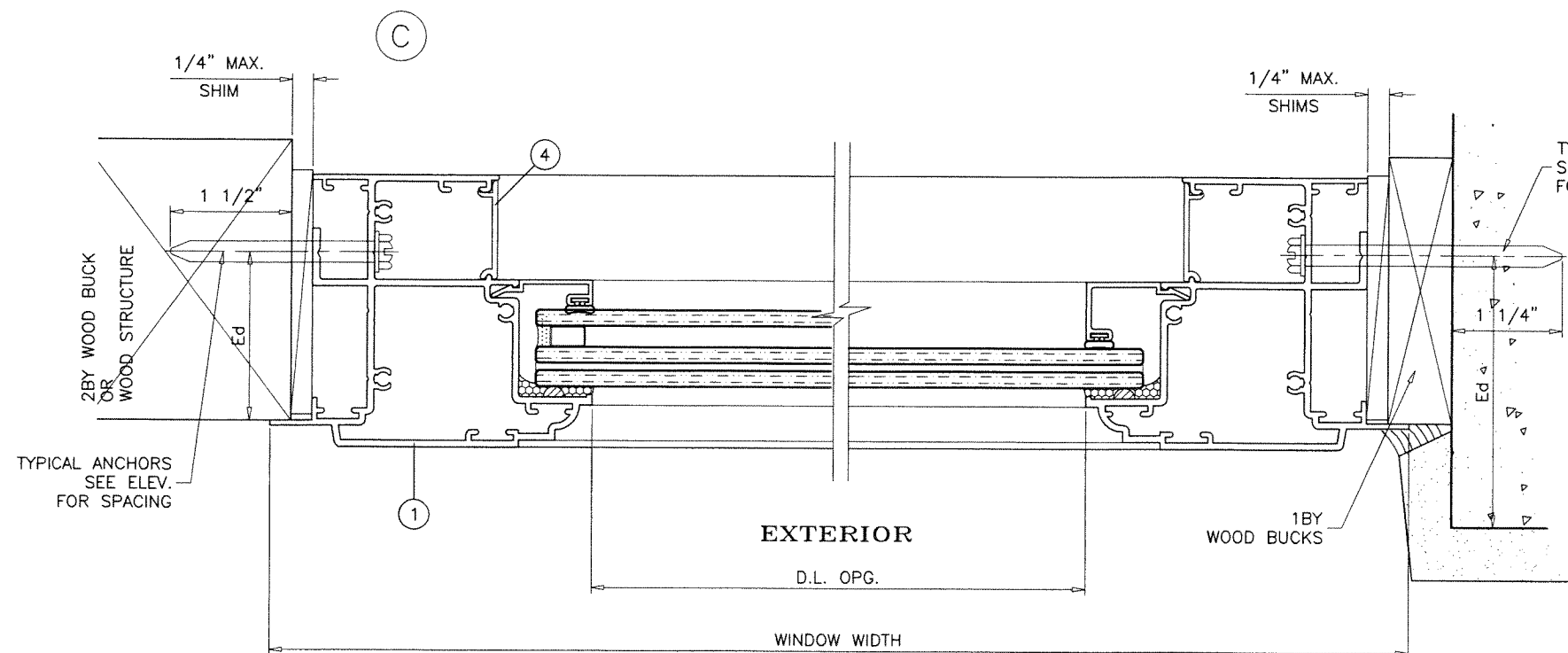
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C	07.14.20	UPDATED TO 2020 FBC	
D	06.07.23	UPDATED TO 2023 FBC	
E	04.17.24	NO CHANGE THIS SHEET	
F	06.23.26	NO CHANGE THIS SHEET	

date: 08-20-14
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W14-29
sheet 3 of 6

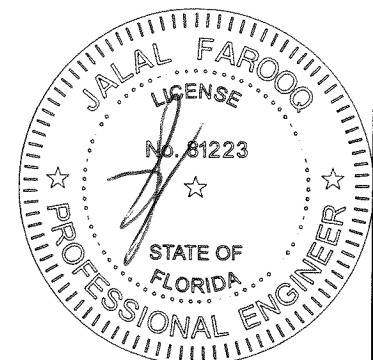


FRAME CORNER



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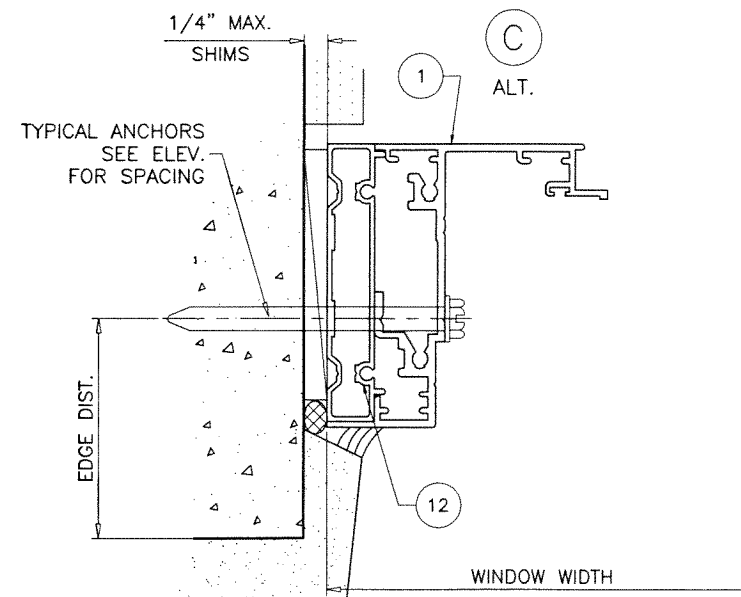
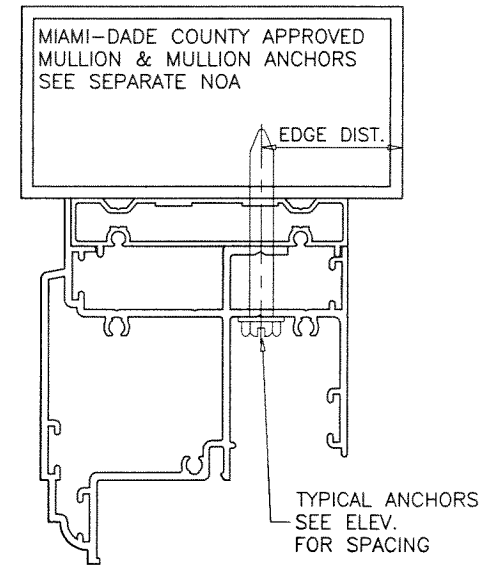
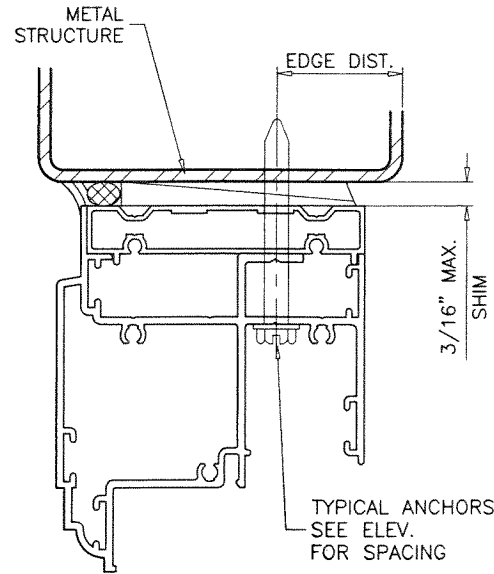
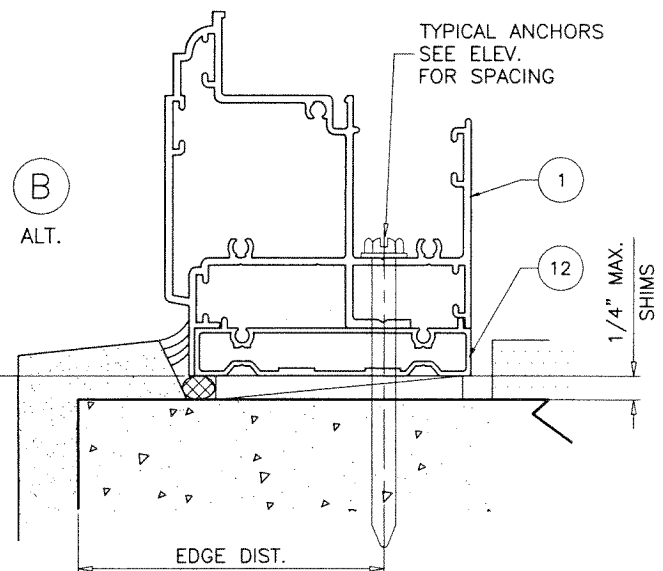
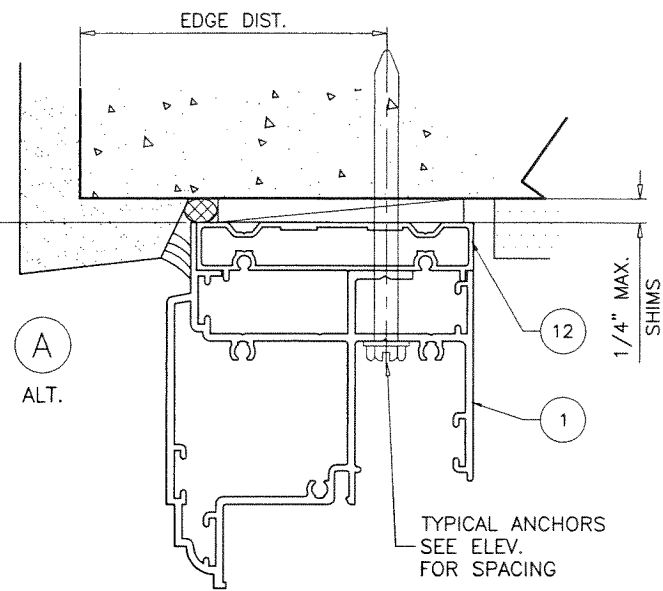
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chk. by:	

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W14-29
 sheet 4 of 6

COMP-ANL\W14-29W

WINDOW HEIGHT

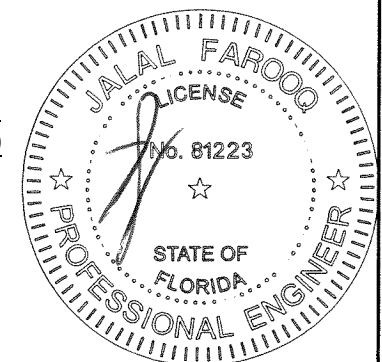
EXTERIOR



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTERS
SEE SHEETS 3 & 4 FOR WINDOW DETAILS

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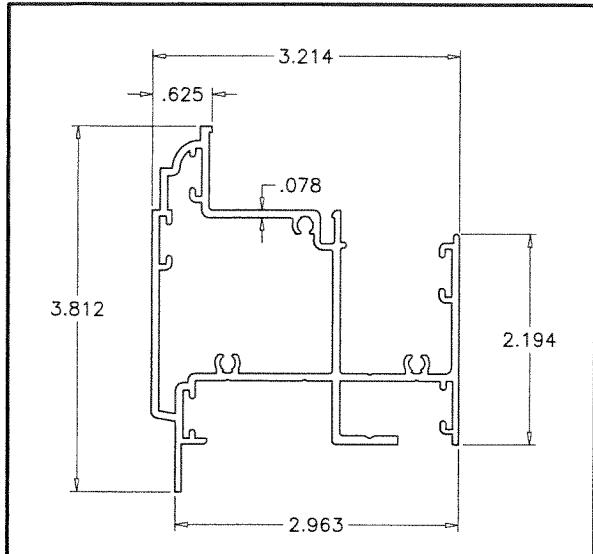
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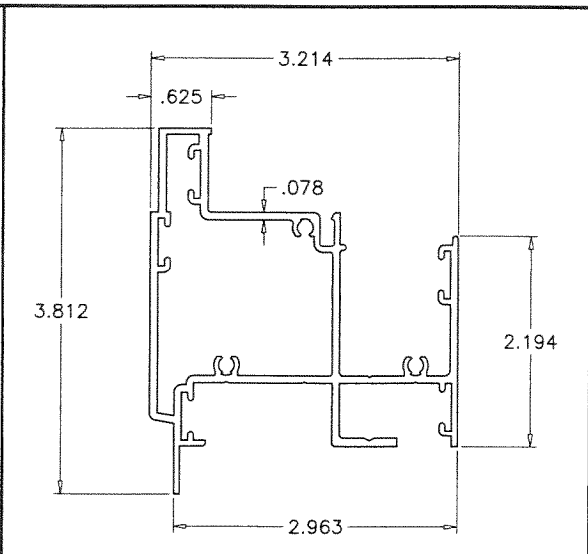
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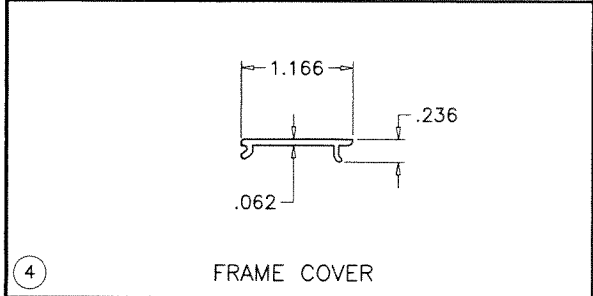
revisions:		by description	
no	date		
E	04.17.24	FLUSH FRAME ADAPTER ADDED.	
F	06.23.26	NO CHANGE THIS SHEET	
date:	08-20-14	scale:	1/2" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	W14-29		
sheet	4.1 of 6		



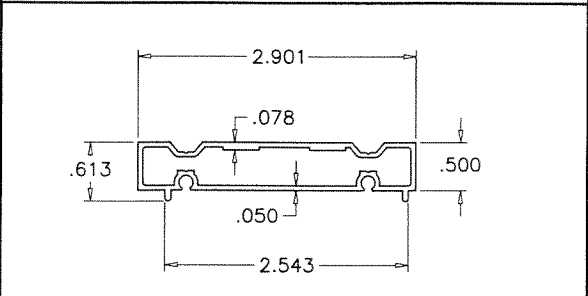
① FIXED FRAME HEAD/SILL/JAMB



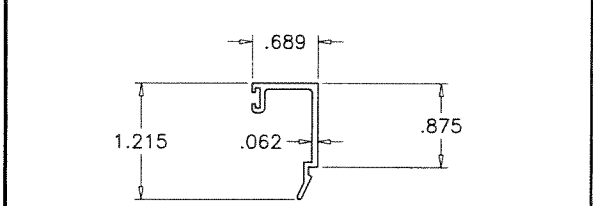
①A ALT. FIXED FRAME HEAD/SILL/JAMB



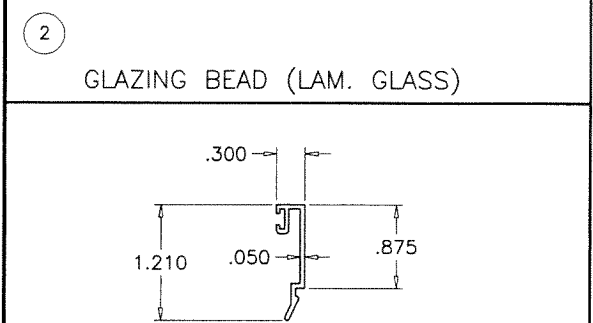
④ FRAME COVER



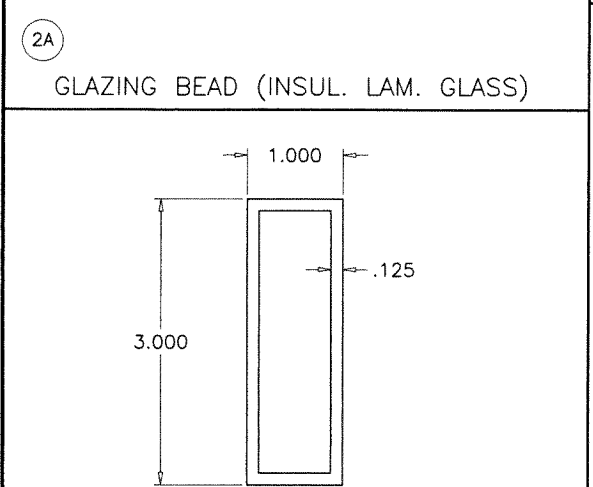
⑫ FLUSH FRAME ADAPTER



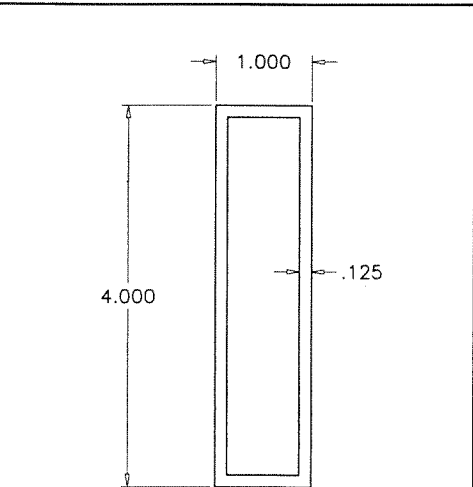
② GLAZING BEAD (LAM. GLASS)



②A GLAZING BEAD (INSUL. LAM. GLASS)



⑪ TUBE MULLION



⑪A TUBE MULLION

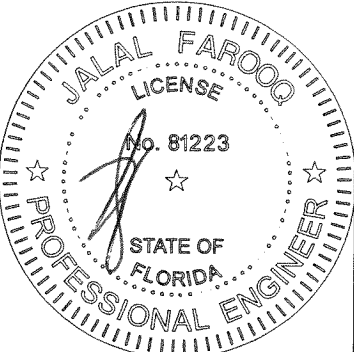
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	V403	4/ WDW.	FRAME HEAD/SILL/JAMB	6063-T6	-
1A	V412	4/ WDW.	ALT. FRAME HEAD/SILL/JAMB	6063-T6	-
2	V405	4/ WDW.	GLAZING BEAD (LAM. GLASS)	6063-T5	-
2A	V406	4/ WDW.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T5	-
4	V404	AS REQD.	FRAME COVER	6063-T6	-
5	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
5A	-	AS REQD.	SETTING BLOCK	EPDM	ULTRAFAB, DUROMETER 80±5 SHORE A
6	PJ540-SS	AS REQD.	CORNER KEY	ST. STEEL	SULLIVAN & ASSOC.
7	#10 X 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	CRS	PH SMS
9	9146	AS REQD.	GLAZING GASKET	VINYL	CENTRAL PLASTICS, DUROMETER 65±5 SHORE A
10	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE, DUROMETER 65±5 SHORE A
11	-	AS REQD.	1X3 TUBE MULLION	6063-T6	-
11A	-	AS REQD.	1X4 TUBE MULLION	6063-T6	-
12	V408	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
'PECORA 1215' SEAM SEALER.
PARIMETER CAULKING 'DYMONIC FC POLYURETHANE' ON EXTERIOR ONLY.

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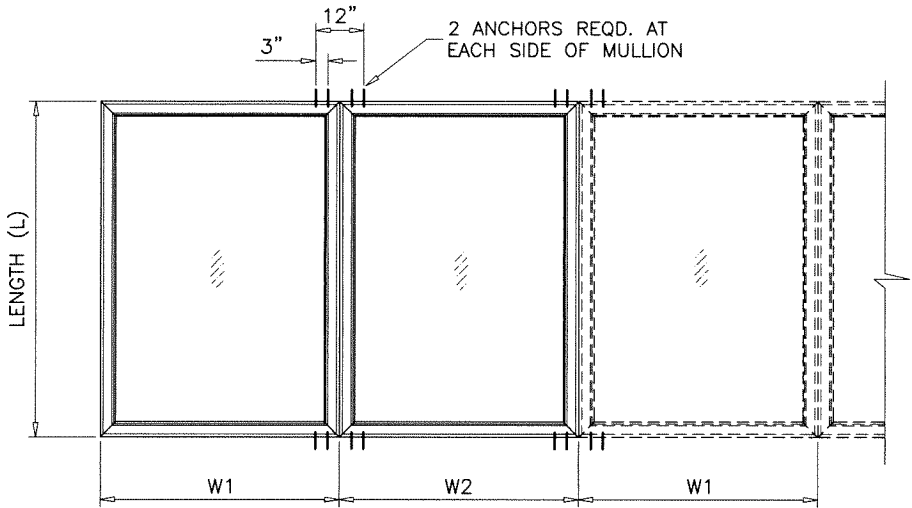
date: 08-20-14
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W14-29
sheet 5 of 6

MULLION LOAD CAPACITY - PSF					
WINDOW DIMS.		MULLION TYPE '1'		MULLION TYPE '2'	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	74-1/4"	85.0	85.0	85.0	85.0
26-1/2"		85.0	85.0	85.0	85.0
37"		85.0	85.0	85.0	85.0
53-1/8"		85.0	85.0	85.0	85.0
60"		85.0	85.0	85.0	85.0
19-1/8"	80"	85.0	85.0	85.0	85.0
26-1/2"		85.0	85.0	85.0	85.0
37"		85.0	85.0	85.0	85.0
53-1/8"		85.0	85.0	85.0	85.0
60"		82.7	82.7	85.0	85.0
19-1/8"	84"	85.0	85.0	85.0	85.0
26-1/2"		85.0	85.0	85.0	85.0
37"		85.0	85.0	85.0	85.0
53-1/8"		74.9	74.9	85.0	85.0
60"		69.7	69.7	85.0	85.0
18"	78"	85.0	85.0	85.0	85.0
24"		85.0	85.0	85.0	85.0
30"		85.0	85.0	85.0	85.0
36"		85.0	85.0	85.0	85.0
42"		85.0	85.0	85.0	85.0
48"		85.0	85.0	85.0	85.0
54"		85.0	85.0	85.0	85.0
60"		85.0	85.0	85.0	85.0
18"	84"	85.0	85.0	85.0	85.0
24"		85.0	85.0	85.0	85.0
30"		85.0	85.0	85.0	85.0
36"		85.0	85.0	85.0	85.0
42"		85.0	85.0	85.0	85.0
48"		80.3	80.3	85.0	85.0
54"		74.2	74.2	85.0	85.0
60"		69.7	69.7	85.0	85.0

NOTES:

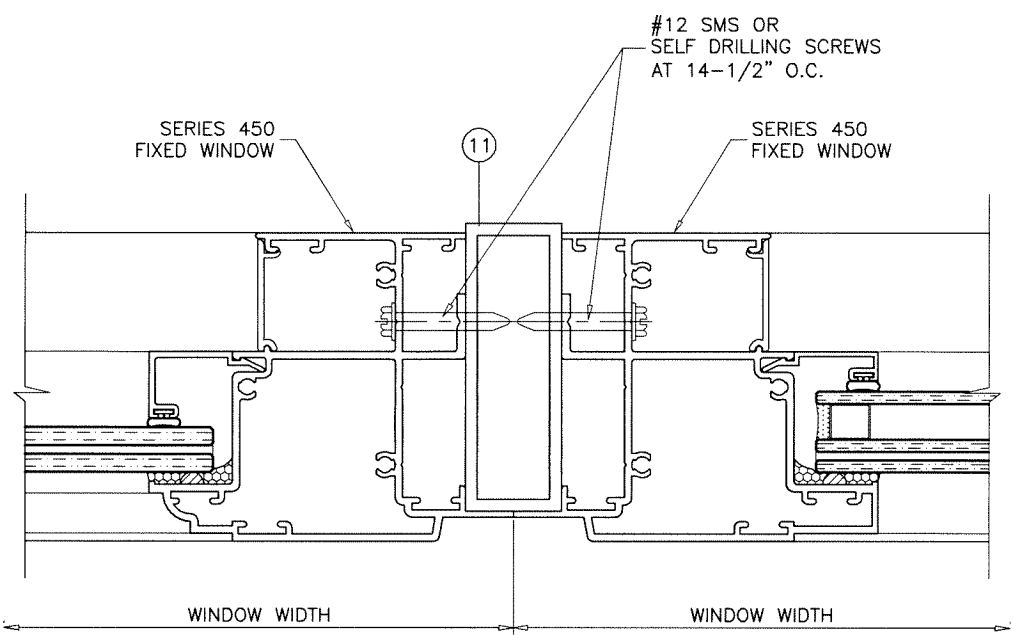
1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
2. FOR FIXED WINDOW CAPACITY SEE SHEET 1.
3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.



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

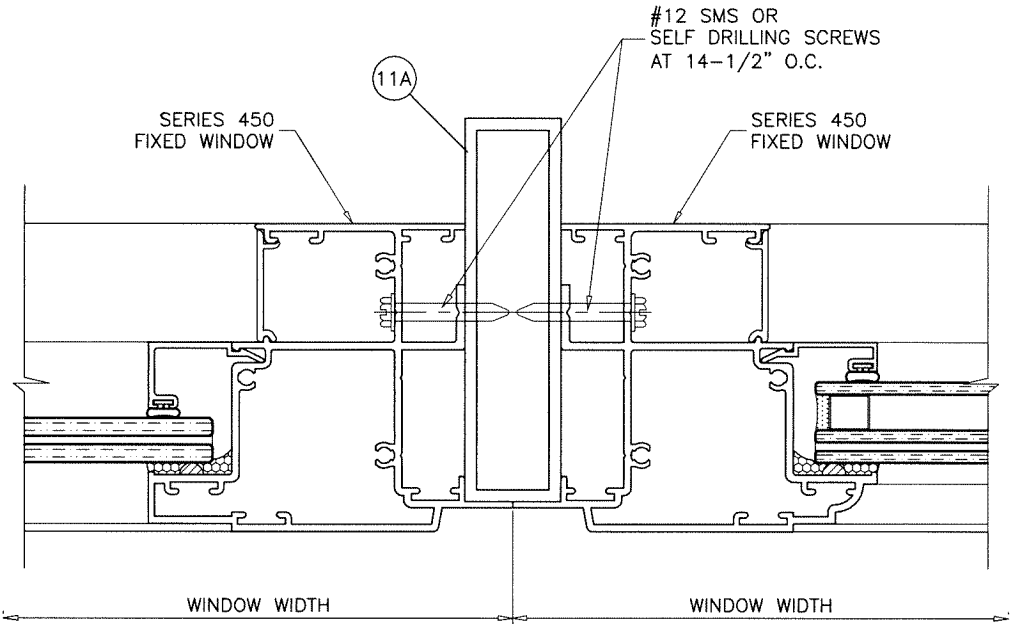
WIDTH (W) = $\frac{W1 + W2}{2}$

UN-CLIPPED MULLIONS



MULLION TYPE '1'

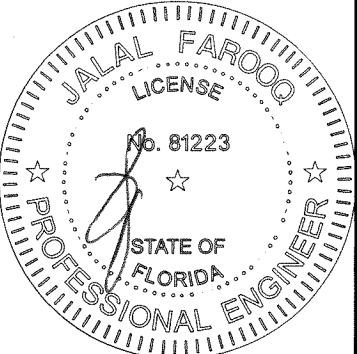
TOTAL PROPERTIES
Ix = 4.188 IN⁴
Sx = 2.319 IN³



MULLION TYPE '2'

TOTAL PROPERTIES
Ix = 5.275 IN⁴
Sx = 2.638 IN³

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