

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

Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474

www.miamidade.gov/economy

**MIAMI-DADE COUNTY** 

# **NOTICE OF ACCEPTANCE (NOA)**

E.S. Windows, LLC 3550 NW 49<sup>th</sup> Street Miami, FL 33142

#### 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 "1000WW" Aluminum Single Hung Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W12-34**, titled "Series-1000WW Alum. Single Hung Window (L.M.I)", sheets 1 through 11 of 11, dated 06/27/12, with revision **H** dated 08/09/24, 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, **Barranquilla**, **Colombia**, 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. 23-0803.05 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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



Expiration I Approve

NOA No. 25-0728.09 Expiration Date: December 13, 2028 Approval Date: August 21, 2025 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. 12-0820.05)
- 2. Drawing No. W12-34, titled "Series-1000WW Alum. Single Hung Window (L.M.I.)" sheets 1 through 11 of 11, dated 06/27/12, with revision **G** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 23-0803.05)

#### 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) Small Missile Impact Test per FBC, TAS 201-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
  - 8) Safety Performance Test, (class A) per ANSI Z97.1

along with marked-up drawings and installation diagram of an aluminum single hung window over fixed window, single and mulled units, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-6800, dated 05/18/12, signed and sealed by Marlin D. Brinson, P.E.

### (Submitted under NOA No. 12-0820.05)

- 2. 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, Test per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.

FTL-5337 and FTL-5815, dated 01/25/08 and 02/13/09 respectively, both signed and sealed by Michael R. Wenzel, P.E.

(For Reference Only - Submitted under NOA's No. 07-0928.14 and No. 09-1008.05)

Manuel Perez, P.E. Product Control Examiner NOA No. 25-0728.09

# E.S. Windows, LLC

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- B. TESTS (CONTINUED)
  - 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) Large Missile Impact Test per FBC, TAS 201-94
    - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum Single Hung window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-05-1432** dated 01/28/05 & **HETI-05-1945**, dated 03/28/05, both signed and sealed by Ivonne Ghia, P.E. (For Reference Only - Submitted under NOA's No. 06-0316.03, No. 07-0928.14 and 09-1008.05)

# C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 5<sup>th</sup> Edition (2014) dated 10/29/14, revised on 07/14/15, further revised on 10/09/17 to comply with FBC 6<sup>th</sup> Edition (2017), then updated on 11/16/20 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. 20-1208.12)

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. 20-0915.22 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 11/19/20, expiring on 07/08/24.
- 2. 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.

### 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 July 12, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 23-0803.05)

Manuel Perez, P.E. Product Control Examiner NOA No. 25-0728.09/

# E.S. Windows, LLC

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

# 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)

### G. OTHERS

1. Notice of Acceptance No. **20-1208.12**, issued to E.S. Windows, LLC, for their Series "1000WW" Aluminum Single Hung Window - L.M.I., approved on 02/18/21 and expiring on 12/13/23.

### 2. NEW EVIDENCE SUBMITTED

### A. DRAWINGS

Drawing No. **W12-34**, titled "Series-1000WW Alum. Single Hung Window (L.M.I.)" sheets 1 through 11 of 11, dated 06/27/12, with revision **H** dated 08/09/24, prepared by Al-Faroog Corporation, signed and sealed by Jalal Faroog, P.E.

#### 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) Small Missile Impact Test per FBC, TAS 201-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum single hung window, prepared by IFET, Inc., Test Report No. **TR-IFET-23-0036.1** dated 06/12/25, signed and sealed by Arshad Viqar, P.E.

### C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 8<sup>th</sup> Edition (2023), dated 06/25/25, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

# D. QUALITY ASSURANCE

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

Manuel Perez, P.E. Product Control Examiner NOA No. 25-0728.09/

# E.S. Windows, LLC

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. NEW EVIDENCE SUBMITTED (CONTINUED)
- E. MATERIAL CERTIFICATIONS
  - 1. Notice of Acceptance No. 24-0205.08 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 03/21/24, expiring on 07/08/29.
  - 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.
  - 3. Notice of Acceptance No. 23-0713.13 issued to Chang Chun Chemical Corporation for their "WINLITE® PVB Film Glass Interlayer" dated 08/17/23, expiring on 10/08/25.

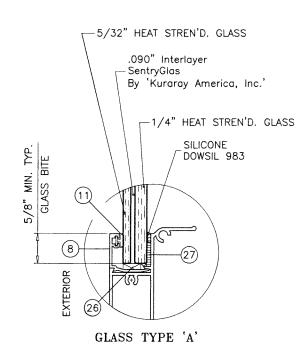
# F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8<sup>th</sup> Edition (2023)**, and of no financial interest, dated June 25, 2025, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

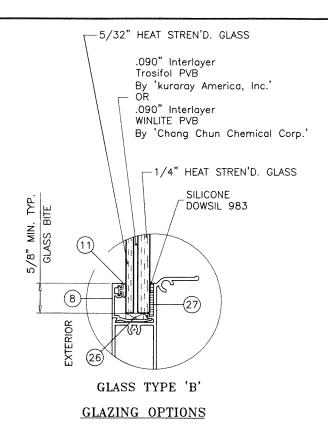
#### G. OTHERS

1. Notice of Acceptance No. **23-0803.05**, issued to E.S. Windows, LLC, for their Series "1000WW" Aluminum Single Hung Window - L.M.I., approved on 09/07/23 and expiring on 12/13/28.

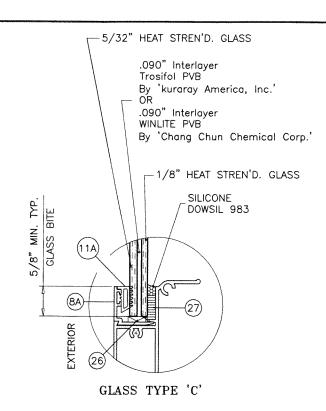
Manuel Perez, P.E. Product Control Examiner NOA No. 25-0728.09



GLASS TYPES 'A' MAXIMUM DESIGN LOAD RATING = + 100.0 PSF - 115.0 PSF



-GLASS TYPE 'B' -MAXIMUM DESIGN LOAD RATING = + 90.0 PSF - 90.0 PSF



GLASS TYPE 'C' MAXIMUM DESIGN LOAD RATING = + 80.0 PSF - 90.0 PSF

# SERIES-1000WW ALUMINUM SINGLE HUNG WINDOW

THESE WINDOWS CAN BE INSTALLED AS SINGLE UNITS OR SIDE BY SIDE COMBINATION OF TWO OR MORE UNITS USING MULLIONS IN BETWEEN. FOR SINGLE HUNG WINDOW CAPACITY SEE SHEET 2. FOR SINGLE HUNG OVER FIXED WINDOW CAPACITY SEE SHEET 3. FOR SIDE BY SIDE UNITS SEE SHEET 4 FOR WINDOW MULLION CAPACITY. LOWER DESIGN PRESSURES FROM CHARTS ABOVE WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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 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.

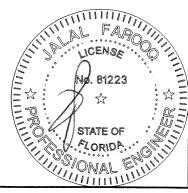
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

**PRODUCT REVISED** As complying with the Florida Building Code NOA-No. 25-0728.09 **Expiration Date: 12/13/2028** 

By: Manuel Peres

Miami-Dade Product Control

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



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

(L.M.I.)

WINDOW SERIES-1000WW ALUM SINGLE HUNG E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (

(305)

by description
UPDATED TO 2017 FE
UPDATED TO 2020 FE
UPDATED TO 2023 FE
WINLITE INTERLAYER A 1/2"=1'-0"

by: scale: Ą. drawing no W12 - 34

sheet 1 of 11

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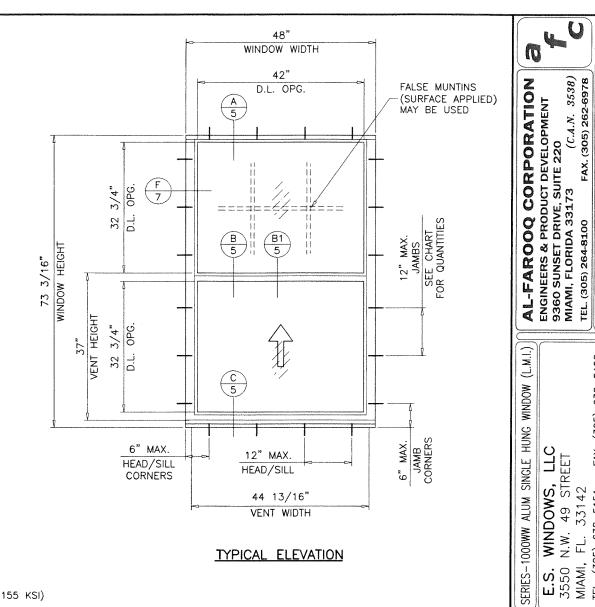
JUL 2 4 2025

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

AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219 INSTRUCTIONS: SEE SHEET 1 FOR GLASS TYPES AND DESIGN LOAD CAPACITY. SEE CHART BELOW FOR SINGLE HUNG WINDOW ANCHOR CAPACITY. LOWER VALUES FROM THESE CHARTS WILL APPLY TO ENTIRE SYSTEM.

	SINGLE I	HUNG WIN	DOW AND	HOR LOA	D CAPACI	TY - PS	F		
			ANCHORS	TYPE 'C'					
WINDOV	V DIMS.	3/8" MA	X. SHIM	HIM 1/2" MAX. SHIM			3/8" MAX. SHIM		
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)		
19-1/8"		100.0	115.0	100.0	115.0	100.0	115.0		
26-1/2"		100.0	115.0	100.0	115.0	100.0	115.0		
30"	38-3/8"	100.0	115.0	100.0	115.0	100.0	115.0		
37"	(4)	100.0	115.0	100.0	115.0	100.0	115.0		
42"		100.0	115.0	100.0	115.0	100.0	115.0		
48"		100.0	115.0	100.0	115.0	100.0	115.0		
19-1/8"		100.0	115.0	100.0	115.0	100.0	115.0		
26-1/2"		100.0	115.0	100.0	115.0	100.0	115.0		
30"	50-5/8"	100.0	115.0	100.0	115.0	100.0	115.0		
37"	(5)	100.0	115.0	100.0	115.0	100.0	115.0		
42"		100.0	115.0	100.0	115.0	100.0	115.0		
48"		100.0	115.0	100.0	115.0	100.0	115.0		
19-1/8"		100.0	115.0	100.0	115.0	100.0	115.0		
26-1/2"		100.0	115.0	100.0	115.0	100.0	115.0		
30"	63"	100.0	115.0	100.0	115.0	100.0	115.0		
37"	(6)	100.0	115.0	100.0	115.0	100.0	115.0		
42"		100.0	115.0	100.0	115.0	100.0	115.0		
48"		100.0	115.0	100.0	112.5	100.0	115.0		
19-1/8"		100.0	115.0	100.0	115.0	100.0	115.0		
26-1/2"		100.0	115.0	100.0	115.0	100.0	115.0		
30"	72"	100.0	115.0	100.0	115.0	100.0	115.0		
37"	(6)	100.0	115.0	100.0	115.0	100.0	115.0		
42"		100.0	115.0	100.0	115.0	100.0	115.0		
48"		100.0	115.0	100.0	107.1	100.0	115.0		

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



# TYPICAL ELEVATION

JUL 2 4 2025

# TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 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)

# TYPE 'C'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS

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

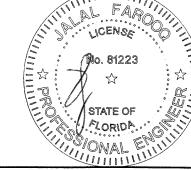
INTO CONCRETE AND MASONRY = 2-1/2" MIN. INTO WOOD STRUCTURE = 1-1/4" MIN.

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 <u>25-0728.0</u>9 NOA-No. **Expiration Date: 12/13/2028** 

By: Manuel Peres

Miami-Dade Product Control



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	date: 06-27-12	scale: 1/2"=1'-0"	
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E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (

UPDATED TO ON CHANGE TO ON CHAN

(sheet 2 of 11)

**INSTRUCTIONS:** SEE SHEET 1 FOR GLASS TYPES AND DESIGN LOAD CAPACITY. SEE CHART BELOW FOR S.H. OVER FIXED WINDOW ANCHOR CAPACITY. LOWER VALUES FROM THESE CHARTS WILL APPLY TO ENTIRE SYSTEM.

SINGL	E HUNG O	VER FIXEL	WINDOW	ANCHOR	LOAD CA	APACITY -	- PSF
			ANCHORS	TYPE 'A	,	TYP	E 'C'
WINDO	W DIMS.	3/8" MA	X. SHIM	1/2" MA	X. SHIM	3/8" MA	X. SHIM
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36"		100.0	115.0	100.0	115.0	100.0	115.0
42"	60"	100.0	115.0	100.0	115.0	100.0	115.0
45"	(5)	100.0	115.0	100.0	115.0	100.0	115.0
48"		100.0	115.0	100.0	115.0	100.0	115.0
36"		100.0	115.0	100.0	115.0	100.0	115.0
42"	72"	100.0	115.0	100.0	115.0	100.0	115.0
45"	(6)	100.0	115.0	100.0	115.0	100.0	115.0
48"		100.0	115.0	100.0	115.0	100.0	115.0
36"		100.0	115.0	100.0	115.0	100.0	115.0
42"	84"	100.0	115.0	100.0	115.0	100.0	115.0
45"	(7)	100.0	115.0	100.0	115.0	100.0	115.0
48"		100.0	115.0	100.0	115.0	100.0	115.0
36"		100.0	115.0	100.0	115.0	100.0	115.0
42"	90"	100.0	115.0	100.0	115.0	100.0	115.0
45"	(8)	100.0	115.0	100.0	115.0	100.0	115.0
48"		100.0	115.0	100.0	115.0	100.0	115.0
36"		100.0	115.0	100.0	115.0	100.0	115.0
42"	96"	100.0	115.0	100.0	115.0	100.0	115.0
45"	(8)	100.0	115.0	100.0	115.0	100.0	115.0
48"		100.0	115.0	100.0	112.0	100.0	115.0
36"		100.0	115.0	100.0	115.0	100.0	115.0
42"	102"	100.0	115.0	100.0	115.0	100.0	115.0
45"	(9)	100.0	115.0	100.0	115.0	100.0	115.0
48"		100.0	115.0	100.0	109.1	100.0	115.0
36"		100.0	115.0	100.0	115.0	100.0	115.0
42"	108"	100.0	115.0	100.0	115.0	100.0	115.0
45"	(9)	100.0	115.0	100.0	114.3	100.0	115.0
48"		100.0	115.0	100.0	107.1	100.0	115.0

<sup>\*</sup> NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

# TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 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)

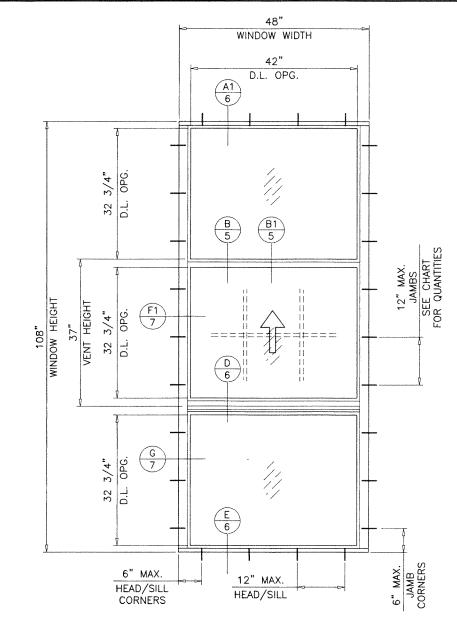
TYPE 'C'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS INTO METAL STRUCTURES (HEAD/SILL/JAMBS)

(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 = 1-1/4" MIN. INTO METAL STRUCTURE = 3/4" MIN.

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



### TYPICAL ELEVATION

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1. WITH MINIMUM SILL HEIGHT OF 36 IN. ABOVE WALKING SURFACE.

> **PRODUCT REVISED** As complying with the Florida Building Code NOA-No.\_\_\_\_ **25-0728.09 Expiration Date: 12/13/2028**

By: Manuel Perez Miami-Dade Product Control

JUL 2 4 2025

\* 2025

STATE OF

ACORIDA

CERIFS_1000WW ALLIM SINCLE HING WINDOW	SELVES 1999 MINDEL 11910 MINDON	E.S. WINDOWS, LLC	3550 N W 40 STREET	MIAMI FI 22140		TEL. (305) 638-5151 FAX. (305) 638-€	
	date   by description	UPDATED TO 2017 FBC	UPDATED TO 2020 FBC	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET		
revisions:	no date   b	E 10.23.17	F 11.18.20	G 07.06.23	Н 08.09.24		
date: 06-27-12		scale: 1/2"=1'-0"		dr. by: TARIQ		chk. by:	
d	ra	wir	ng		nc	$\overrightarrow{S}$	

W12 - 34

sheet 3 of 11

(C.A.N. 3538) 305) 262-6978

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

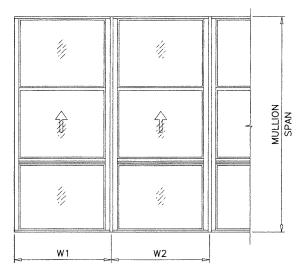
 9360 SUNSET DRIVE, SUITE 220

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

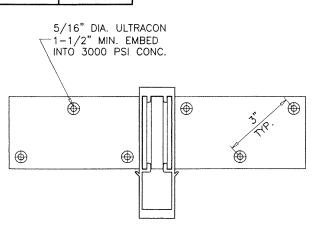
 TEL. (305) 264-8100
 FAX. (305) 262-6978

MULLION LOAD CAPACITY - PSF							
WINDO	6 ANCHORS MULL END						
WIDTH (W)	MULL SPAN	EXT. (+) INT. (-)					
24"		115.0					
30"		115.0					
36"	60"	115.0					
42"		115.0					
48"		115.0					
24"		115.0					
30"		115.0					
36"	72"	115.0					
42"		115.0					
48"		115.0					
24"		115.0					
30"		115.0					
36"	84"	115.0					
42"		115.0					
48"		115.0					
24"		115.0					
30"		115.0					
36"	90"	115.0					
42"		115.0					
48"		115.0					
24"		115.0					
30"		115.0					
36"	96"	115.0					
42"		115.0					
48"		115.0					
24"		115.0					
30"		115.0					
36"	102"	115.0					
42"		115.0					
48"		115.0					
24"		115.0					
30"		115.0					
36"	108"	115.0					
42"		115.0					
48"		115.0					

**INSTRUCTIONS:** SEE SHEET 1 FOR GLASS TYPES AND DESIGN LOAD CAPACITY. SEE CHART ON SHEET 3 FOR S.H. OVER FIXED WINDOW ANCHOR CAPACITY. SEE CHARTS BELOW FOR WINDOW MULLION CAPACITY. LOWER VALUES FROM THESE CHARTS WILL APPLY TO ENTIRE SYSTEM.

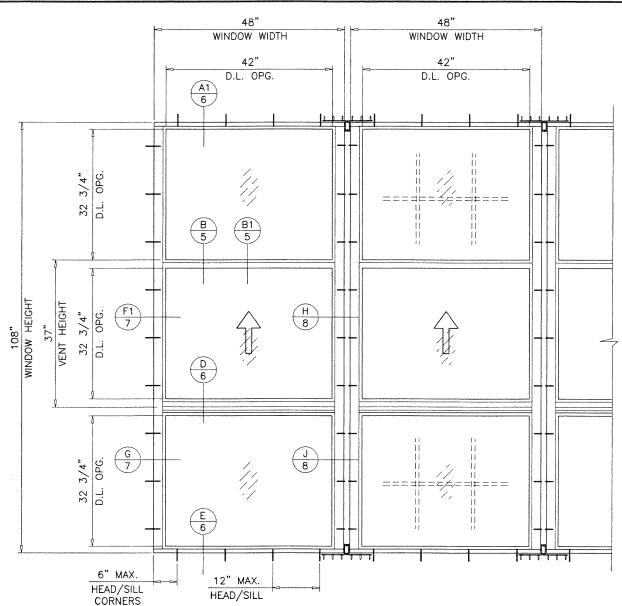


WIDTH (W) = 
$$\frac{\text{W1 + W2}}{2}$$



6 ANCHORS @ MULL ENDS

INSTALL CLIP ANGLES DIRECTLY TO CONC. WITHOUT SHIM SPACE NOTCH WOOD BUCKS TO ACCOMMODATE CLIP ANGLES SEE SHEET 8 FOR DETAIL



JUL 2 4 2025

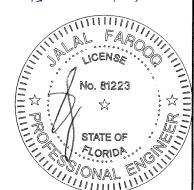
TYPICAL ELEVATION

SIDE BY SIDE UNITS

**PRODUCT REVISED** As complying with the Florida Building Code NOA-No. **25-0728.09** 

By: Manuel Perez

Miami-Dade Product Control



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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

(L.M.I.)

SERIES-1000WW ALUM SINGLE HUNG WINDOW

E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (

by description

UPDATED TO 2017 FBC

UPDATED TO 2020 FBC

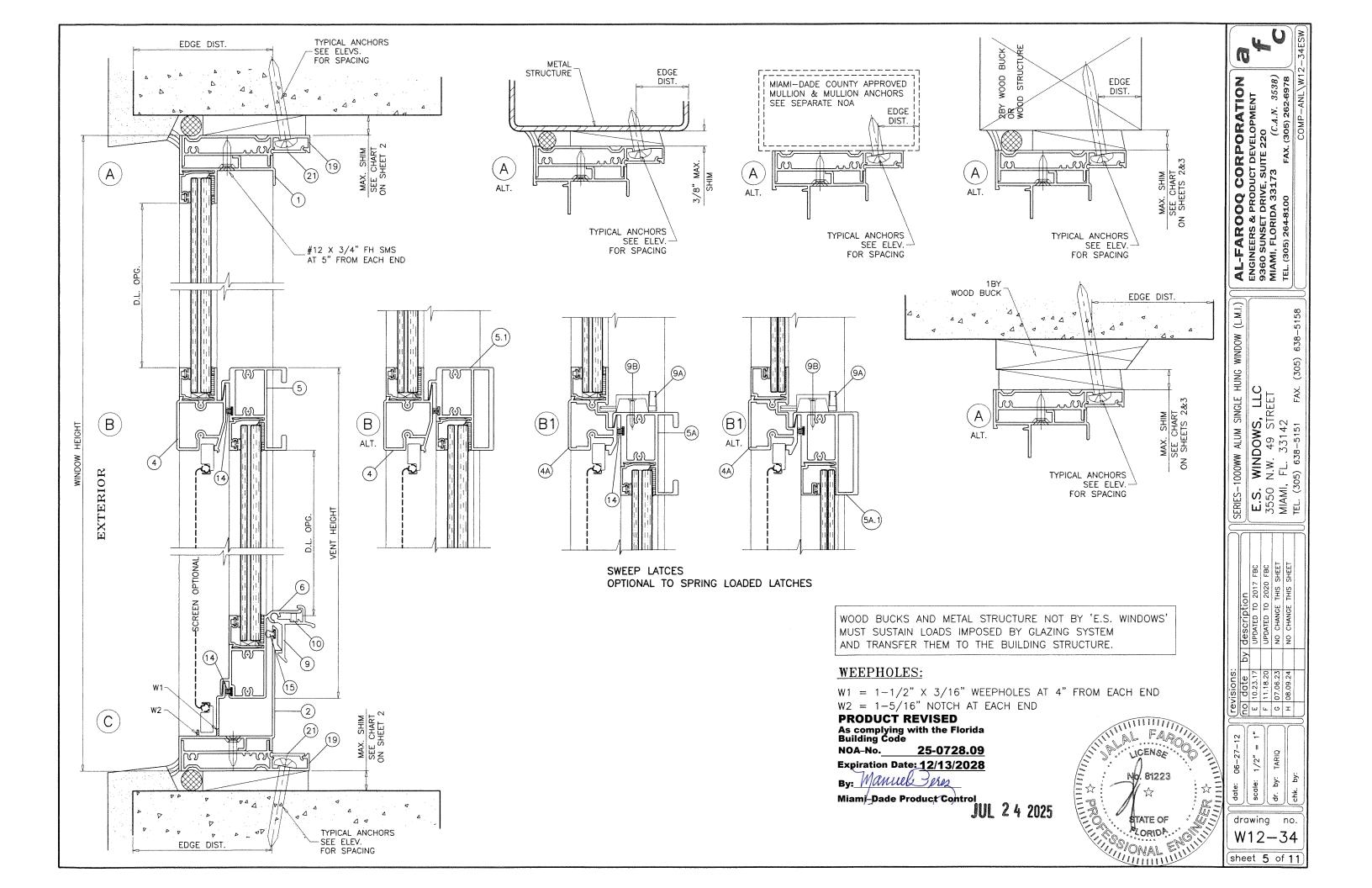
UPDATED TO 2020 FBC

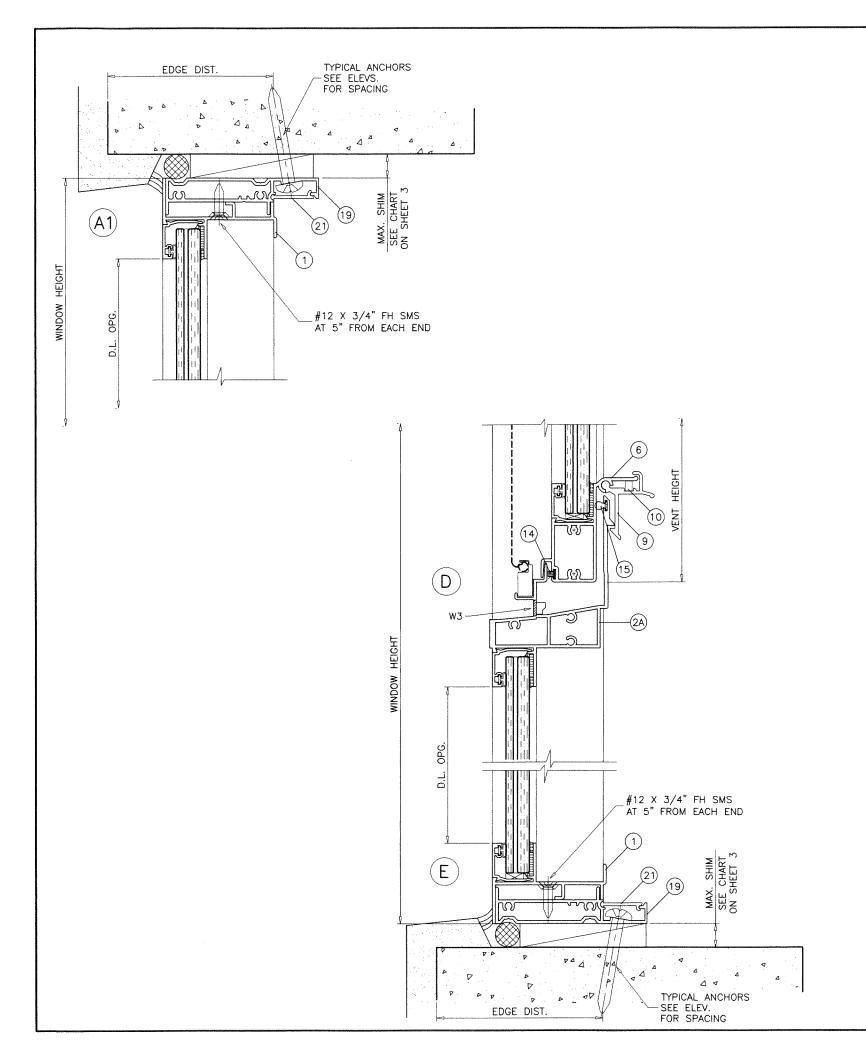
NO CHANGE THIS SHEET **Expiration Date: 12/13/2028** revisions:
no date
E 10.23.17
F 11.18.20
G 07.06.23
H 08.09.24 No. 81223

STATE OF

ALORIDA

ALORIDA ò. <u>4</u>. drawing no. W12 - 34sheet 4 of 11







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

-5158

(305)

SERIES-1000WW ALUM SINGLE HUNG WINDOW (L.M.I.)

E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305)

by description
UPDATED TO 2017 FBC
UPDATED TO 2020 FBC
NO CHANGE THIS SHEET
NO CHANGE THIS SHEET revisions:
no date
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G 07.06.23
H 08.09.24

06-27-12

dr. by:

drawing no.

W12 - 34

sheet 6 of 11

# WEEPHOLES:

W3 = 5/16" WEEPHOLES AT 6" FROM EACH END WITH PLASTIC BAFFLE

By: Manuel Peres Miami-Dade Product Control

NOA-No.

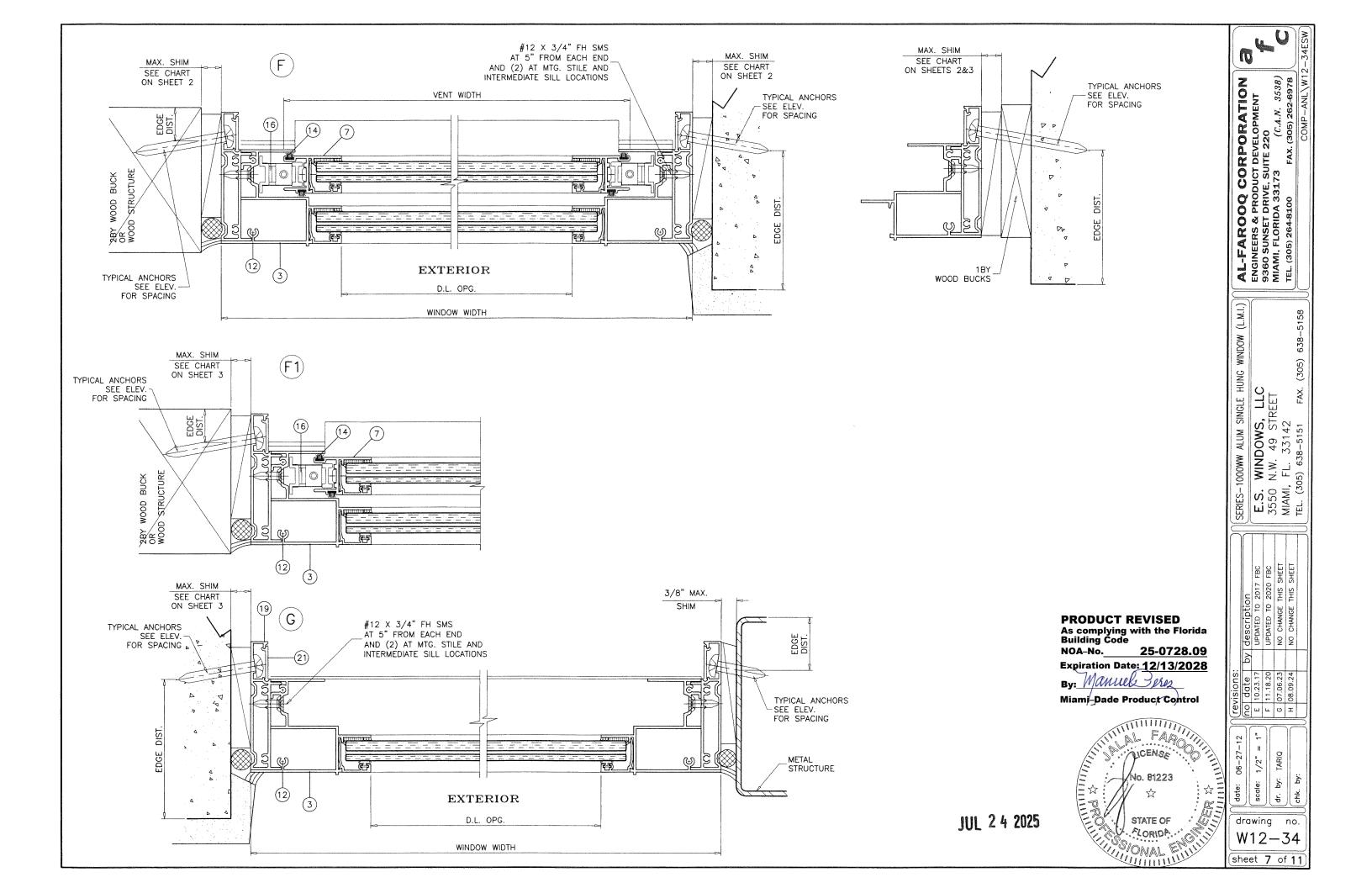
PRODUCT REVISED
As complying with the Florida
Building Code

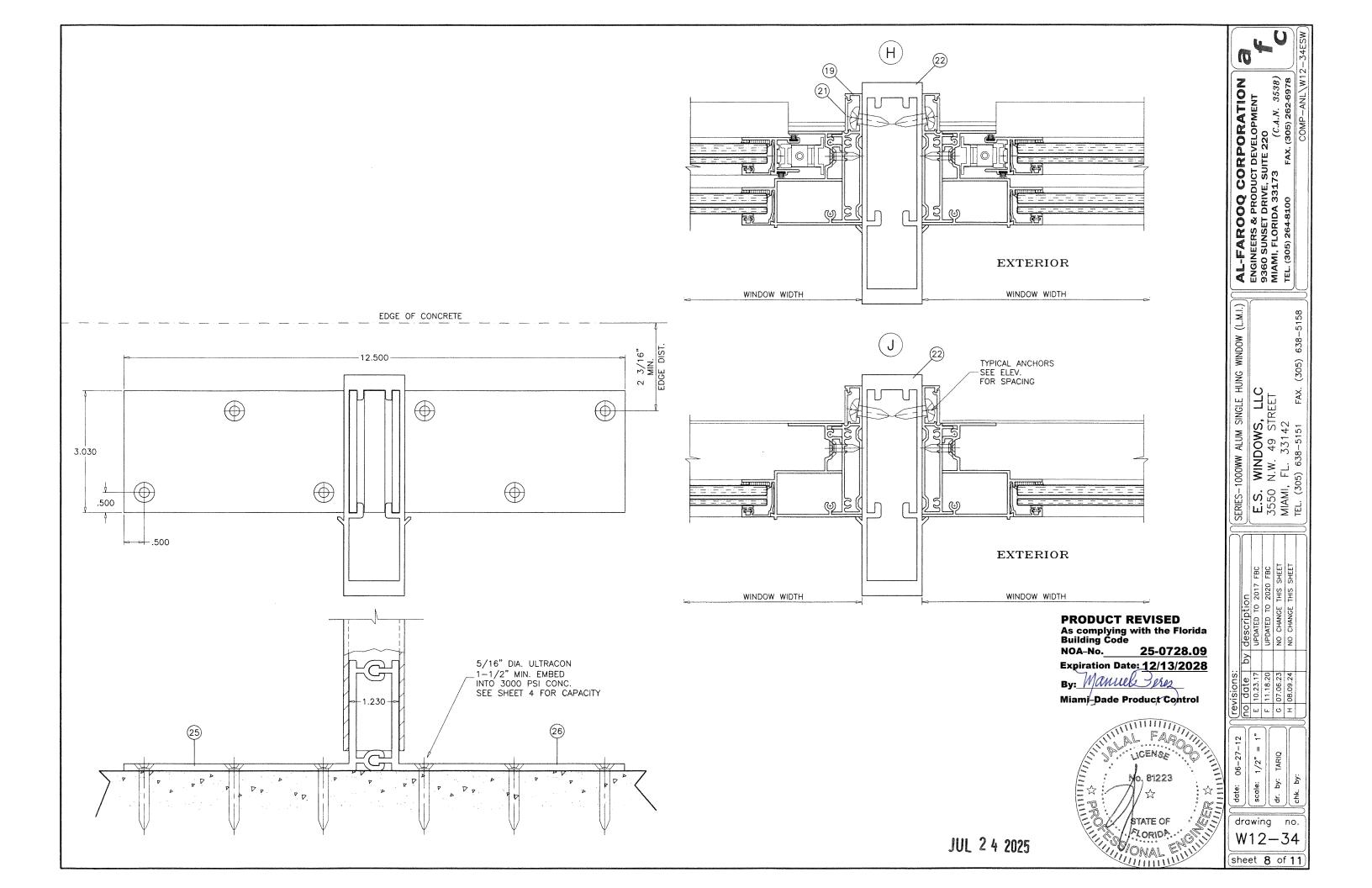
Expiration Date: 12/13/2028

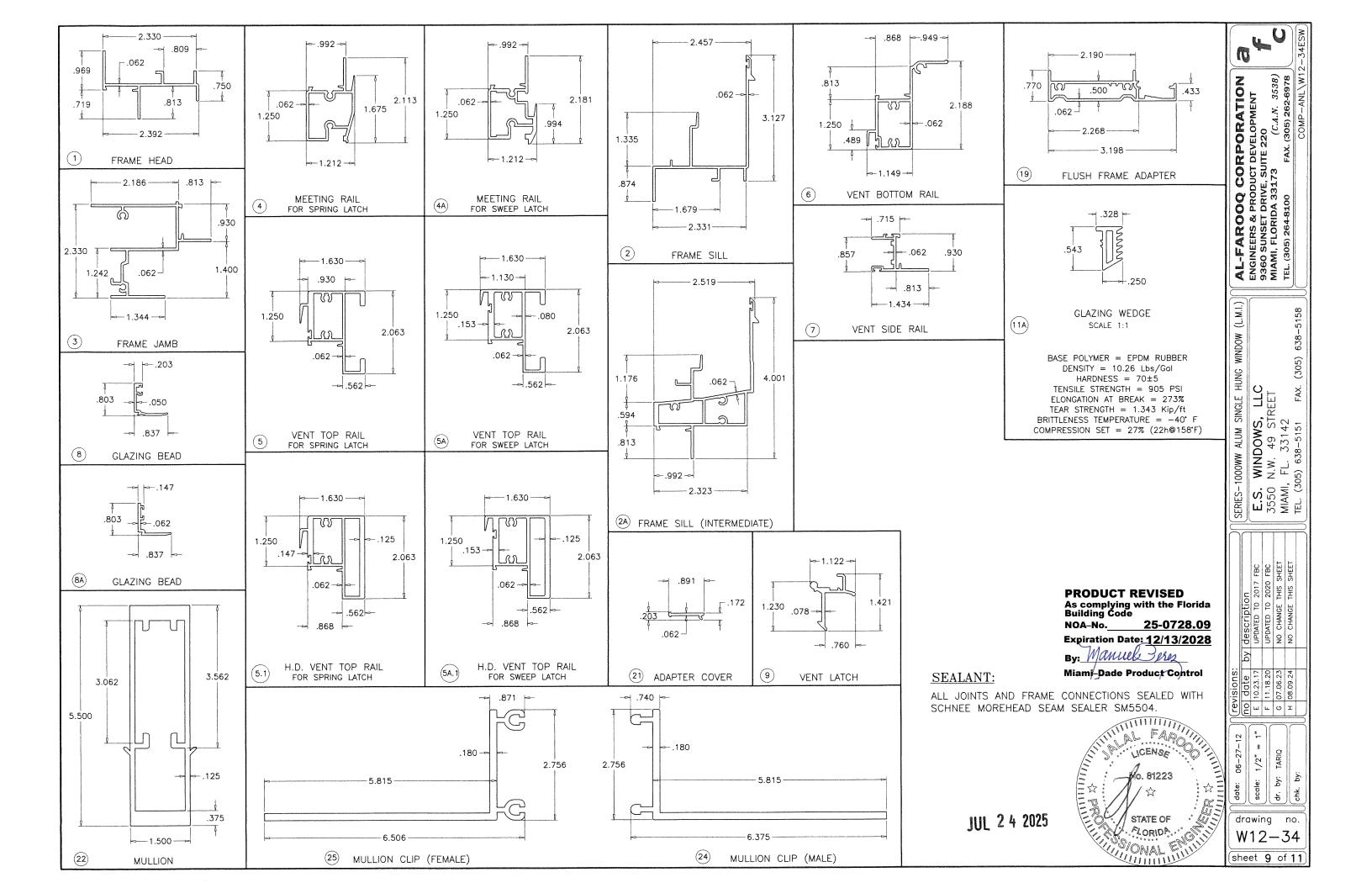


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STATE OF
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JUL 2 4 2025







ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1001	1	FRAME HEAD	6063-T6	
2	ES1101	1	FRAME SILL	6063-T6	
2A	ES1055	1	FRAME SILL (INTERMEDIATE)	6063-T6	
3	ES1003	2	FRAME JAMB	6063-T6	_
4	ES1005	1	FIXED MTG. RAIL (FOR SPRING LATCH)	6063-T6	-
4A	ES1051	1	FIXED MTG. RAIL (FOR SWEEP LATCH)	6063-T6	_
5	ES2004	1	VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	****
5.1	ES2004A	1	VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	_
5A	ES1053	1	VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	_
5A.1	ES1053A	1	VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	
6	ES1006	1	VENT BOTTOM RAIL	6063-T6	
7	ES1007	2	VENT SIDE RAIL	6063-T5	
8	ES1017	AS RQD.	GLAZING BEAD	6063-T5	-
8A	ES1008	AS RQD.	GLAZING BEAD	6063-T6	_
9	ES1009	2/VENT	SPRING LOADED VENT LATCH	6063-T5	AT 6" FROM ENDS
9A	-	2/VENT	SWEEP LATCH	ZAMAK	AT 6" FROM ENDS
9B	#8 X 1"	2/LATCH	LATCH INSTALLATION SCREWS		FH SMS
10	ES1012	1/LATCH	LATCH SPRING	ST. STEEL	-
11	27-425	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 60±5 SHORE 'A'
11A	ES1010	AS REQD.	GLAZING WEDGE	SOFT PVC	DUROMETER 70±5 SHORE 'A'
12	#8 X 1"	20	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
13	ES1011	2/VENT	SASH CAM	CELCON	_
14	23211NG	AS REQD.	PILE W'STRIPPING WITH PLASTIC FIN	POLY PROPYLENE	num.
15	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
16	SERIES 86	2/ VENT	BLOCK & TACKLE BALANCE		CALDWELL
18	ES1013	2	SASH STOP	_	-
19	ES1056	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	_
20	_	1	5/16" BOX SCREEN	_	OPTIONAL
21	ES5016	AS REQD.	ADAPTER COVER	6063-T5	
22	ES1057	AS REQD.	MULLION	6063-T6	, man
24	ES1059	AS REQD.	MULLION CLIP (MALE)	6063-T6	-
25	ES1060	AS REQD.	MULLION CLIP (FEMALE)	6063-T6	
26	27-372	2/ LITE	SETTING BLOCK, 7/16" X 3/16" X 3-1/2" LONG	EPDM	DUROMETER 75±5 SHORE A
27	_	AS REQD.	GLAZING TAPE, 1/8" X 1/2" FOAM	POLYURETANE	****

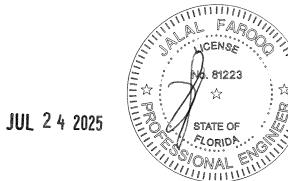
# SEALANT:

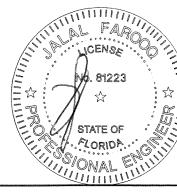
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD SEAM SEALER SM5504.

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 25-0728.09

Expiration Date: 12/13/2028 By: Manuel Perez

Miami-Dade Product Control





	2-34ES					
MOITAGOGG COCCART. IA		ENGINEERS & PRODUCT DEVELOPMENT	E 2	31/3	TEL. (305) 264-8100 FAX. (305) 262-6978	COMP-ANL\W12-34ES
SERIES-TODOWW ALLIM SINGLE HING WINDOW (LM.)		E.S. WINDOWS, LLC	3550 N W 49 STREET	MAN 53140		TEL. (305) 638-5151 FAX. (305) 638-5158
revisions:	no date by description	E 10.23.17 UPDATED TO 2017 FBC	F 11.18.20 UPDATED TO 2020 FBC	G 07.06.23 NO CHANGE THIS SHEET	H 08.09.24 NO CHANGE THIS SHEET	
.) date: 06-27-12		.   scale: 1/2" = 1"		dr. by: TARIQ		Cnk. by:

drawing no. W12 - 34sheet **10** of **11** 

