

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

E.S. Windows, LLC 3550 NW 49th 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 "1100WW" Aluminum Single Hung Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-41**, titled "Series–1100WW Alum. Single Hung Window (S.M.I)", sheets 1 through 11 of 11, dated 07/20/12, with revision **G** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami–Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: 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 and renews NOA No. 20-1208.11 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.

MIAMI-DADE COUNTY
APPROVED

NOA No. 23-0803.04 Expiration Date: December 13, 2028 Approval Date: September 07, 2023 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 12-0907.02)
- 2. Drawing No. **W12-41**, titled "Series-1100WW Alum Single Hung Window (S.M.I.)" sheets 1 through 11 of 11, dated 07/20/12, with revision **F** dated 11/18/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 20-1208.11)

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 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. 12-0907.02)

- 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) Small Missile Impact Test per FBC, TAS 201-94
 - 6) 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 Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-5337** dated 01/25/08 and **FTL-5815** dated 02/13/09, 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 Pérez, P.E. Product Control Examiner NOA No. 23-0803.04

Expiration Date: December 13, 2028 Approval Date: September 07, 2023

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, 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** 6th **Edition (2017)**, dated 10/29/14 and 10/10/17, and updated on 11/16/20 to comply with **FBC** 7th **Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
 - (Submitted under NOA No. 20-1208.11)
- 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 6th Edition (2017), with FBC 7th Edition (2020), and of no financial interest, dated November 16, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 20-1208.11)

Manuel Perez, P.E. Product Control Examiner NOA No. 23-0803.04

Expiration Date: December 13, 2028 Approval Date: September 07, 2023

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

G. OTHERS

1. Notice of Acceptance No. **18-0905.08**, issued to E.S. Windows, LLC, for their Series "1100WW" Aluminum Single Hung Window - S.M.I., approved on 10/04/18 and expiring on 12/13/23.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W12-41**, titled "Series-1100WW Alum Single Hung Window (S.M.I.)" sheets 1 through 11 of 11, dated 07/20/12, with revision **G** dated 07/06/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 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

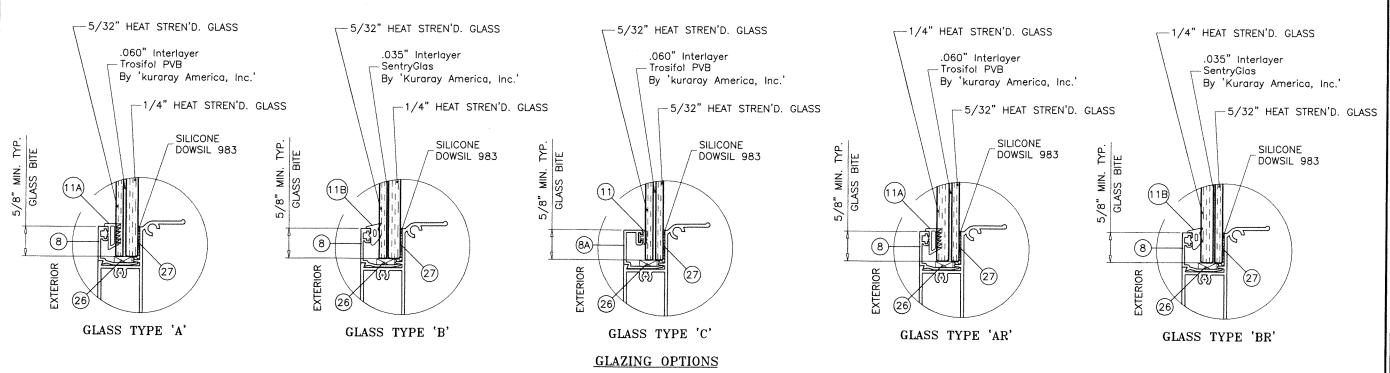
1. Statement letter of conformance, complying with FBC 7th Edition (2020), with FBC 8th Edition (2023), and of no financial interest, dated July 12, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-1208.11**, issued to E.S. Windows, LLC, for their Series "1100WW" Aluminum Single Hung Window - S.M.I., approved on 02/18/21 and expiring on 12/13/23.

Manuel Perez, P.E. Product Control Examiner NOA No. 23-0803.04

Expiration Date: December 13, 2028 Approval Date: September 07, 2023



SERIES-1100WW ALUMINUM SINGLE HUNG WINDOW

MAXIMUM DESIGN LOAD RATING = + 100.0 PSF

- 140.0 PSF

GLASS TYPES 'A' & 'B'

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 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

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

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

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

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

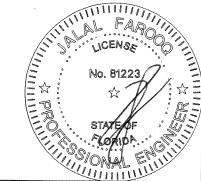
GLASS TYPE 'C', 'AR' & 'BR' MAXIMUM DESIGN LOAD RATING = + 80.0 PSF - 120.0 PSF

> **PRODUCT REVISED** As complying with the Florida **Building Code** 23-0803.04 NOA-No. **Expiration Date: 12/13/2028**

By: Manuel Peres Miami-Dade Product Control

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

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



M.E.		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
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	SERIES-1100WW ALUM SINGLE HUNG WINDO	N S	Q
	E.S. WINDOWS, LLC		
	3550 N.W. 49 STREET		
	MIAMI, FL. 33142		
	TEL (305) 638-5151 FAX (305) 638	(202)	35.9

3

	by description	UPDATED TO 2014 FBC	UPDATED TO 2017 FBC	GLASS OPTIONS ADDED	UPDATED TO 2020 FBC	UPDATED TO 2023 FBC
ns:						
(revisions:	no date	C 12.22.14	D 10.23.17	E 08.24.18	F 11.18.20	G 07.06.23
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scale: 유 | 유 drawing no. W12 - 41

sheet 1 of 11

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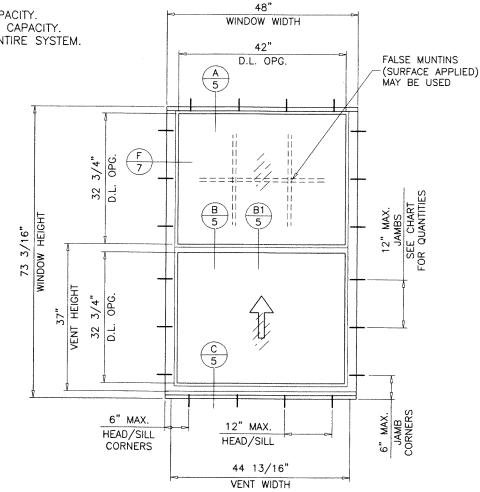
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		SINGLE H	IUNG WIN	DOW AND	HOR LOA	D CAPACI	TY - PSI	F	
				ANCHORS	TYPE 'A	,		ANCHO	RS 'C'
WINDO	W DIMS.	1/4" MA	X. SHIM	3/8" MA	X. SHIM	1/2" MA	X. SHIM	3/8" MA	X. SHIM
WIDTH	HEIGHT	EXT. (+)	INT. (-)						
19-1/8"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"	38-3/8"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"	(4)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
19-1/8"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"	50-5/8"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"	(5)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
19-1/8"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"	63"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"	(6)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
19-1/8"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
26-1/2"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
30"	72"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
37"	(6)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0

^{*} NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

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.



TYPICAL ELEVATION

JUL 0 7 2023

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.

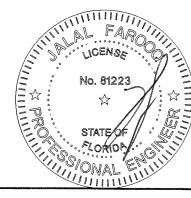
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN. CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN. C-90 HOLLOW/FILLED BLOCK AT JAMBS I'm = 2000 PSI MIN. **PRODUCT REVISED** As complying with the Florida Building Code

NOA-No.

Expiration Date: 12/13/2028

By: Manuel Perez

Miami-Dade Product Control



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

(S.M.I.)

SINGLE HUNG

(305)

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

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drawing no.

sheet 2 of 11

	SING	LE HUNG	OVER FI	XED WIND	OW ANCH	OR LOAD	CAPACIT	Y - PSF	
				ANCHORS	TYPE 'A	,		ANCHO	RS 'C'
WINDO	W DIMS.	1/4" MA	X. SHIM	3/8" MA	X. SHIM	1/2" MA	X. SHIM	3/8" MA	X. SHIM
WIDTH	HEIGHT	EXT. (+)	INT. (-)						
36"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"	60"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"	(6)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"	72"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"	(6)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"	84"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"	(9)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"	90"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"	(9)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"	96"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"	(9)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"	102"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"	(9)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
36"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
42"	108"	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
45"	(9)	100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0
48"		100.0	140.0	100.0	140.0	100.0	140.0	100.0	140.0

* 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)

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.

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

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

INSTRUCTIONS:

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.

WINDOW WIDTH 42" D.L. OPG. A1 6 B1 5 B 5 108" WINDOW HEIGHT 37" VENT HEIGHT 3/4" OPG. 32 D.L. <u>D</u> (E) 6" MAX. 12" MAX. HEAD/SILL HEAD/SILL .9 CORNERS

48"

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. 23-0803.04
Expiration Date: 12/13/2028
By: Manuel Product Control

JUL 0 7 2023



 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

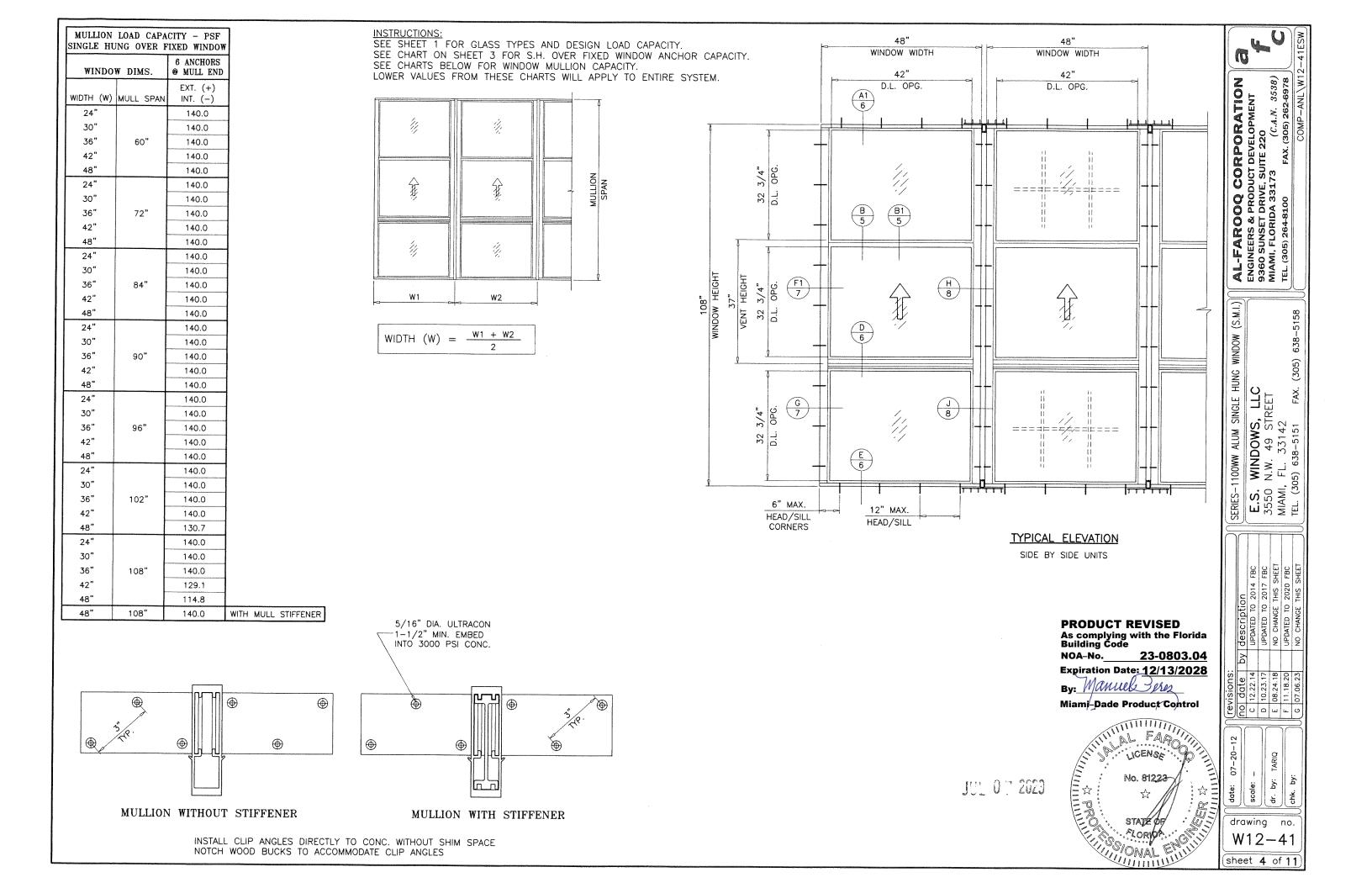
 (S.M.I.) (305)SINGLE HUNG . WINDOWS, LLC D N.W. 49 STREET II, FL. 33142 (305) 638–5151 FAX. (ь Б

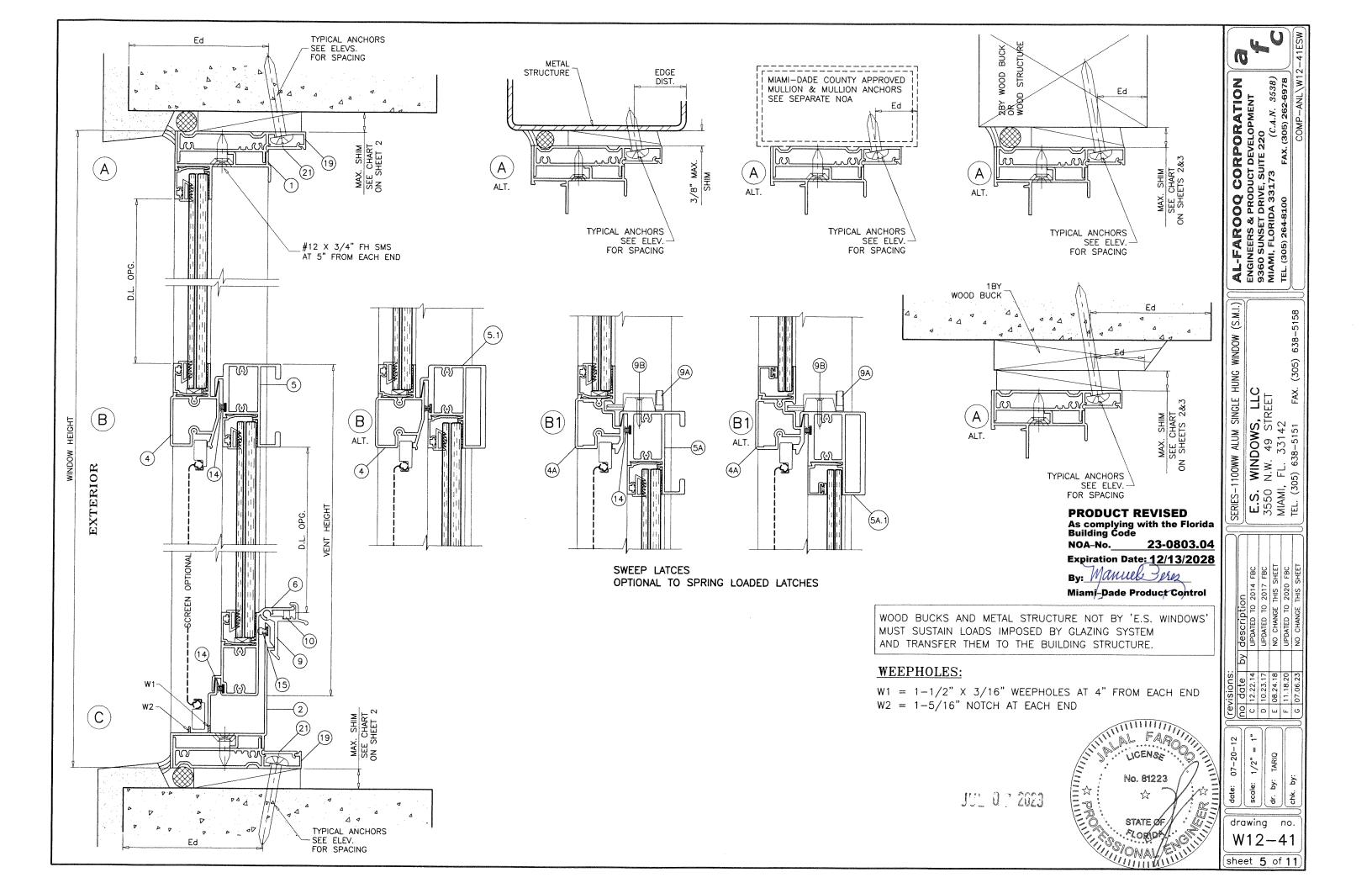
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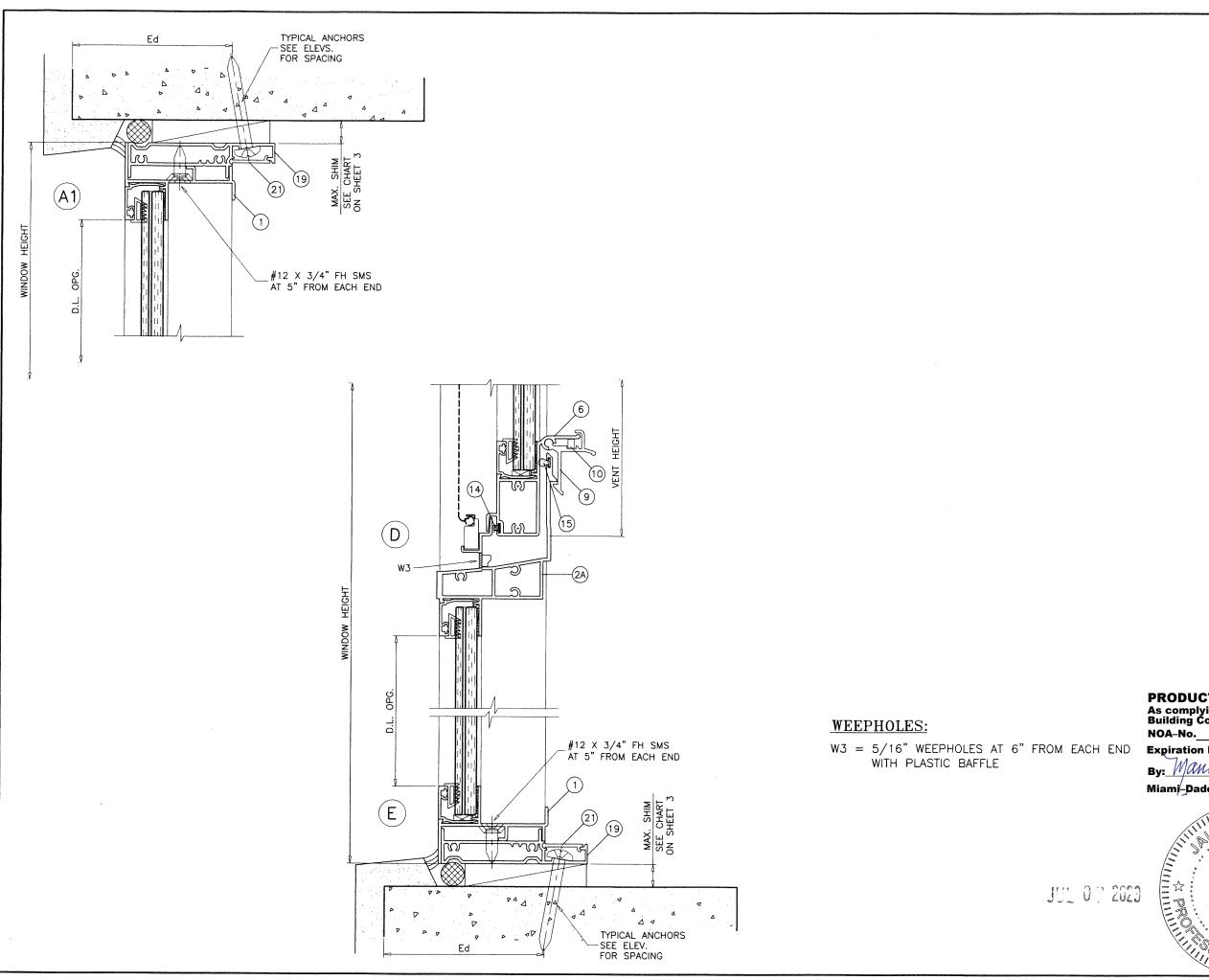
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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-1100WW ALUM SINGLE HUNG WINDOW (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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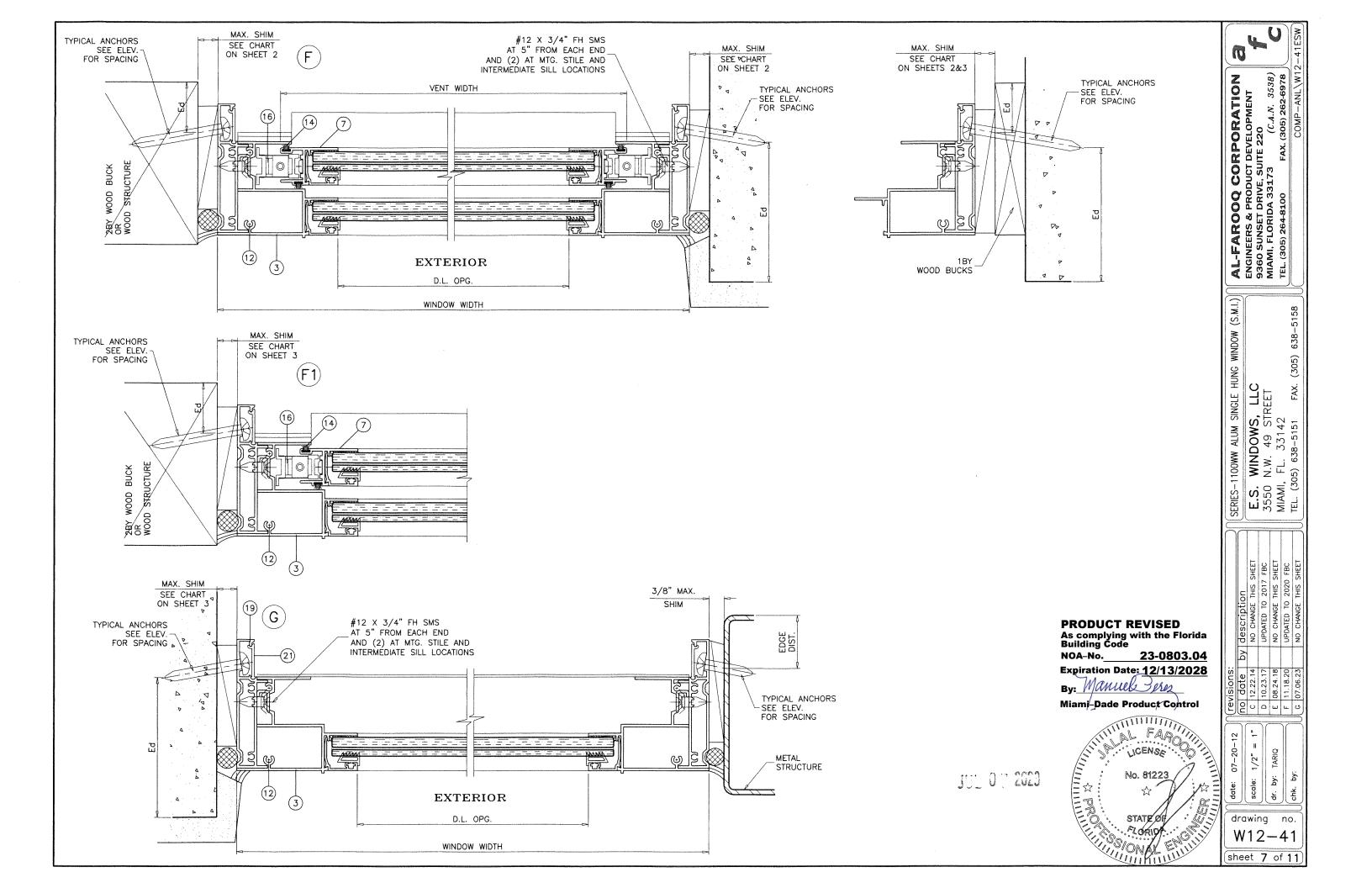
By: Manuel Perez

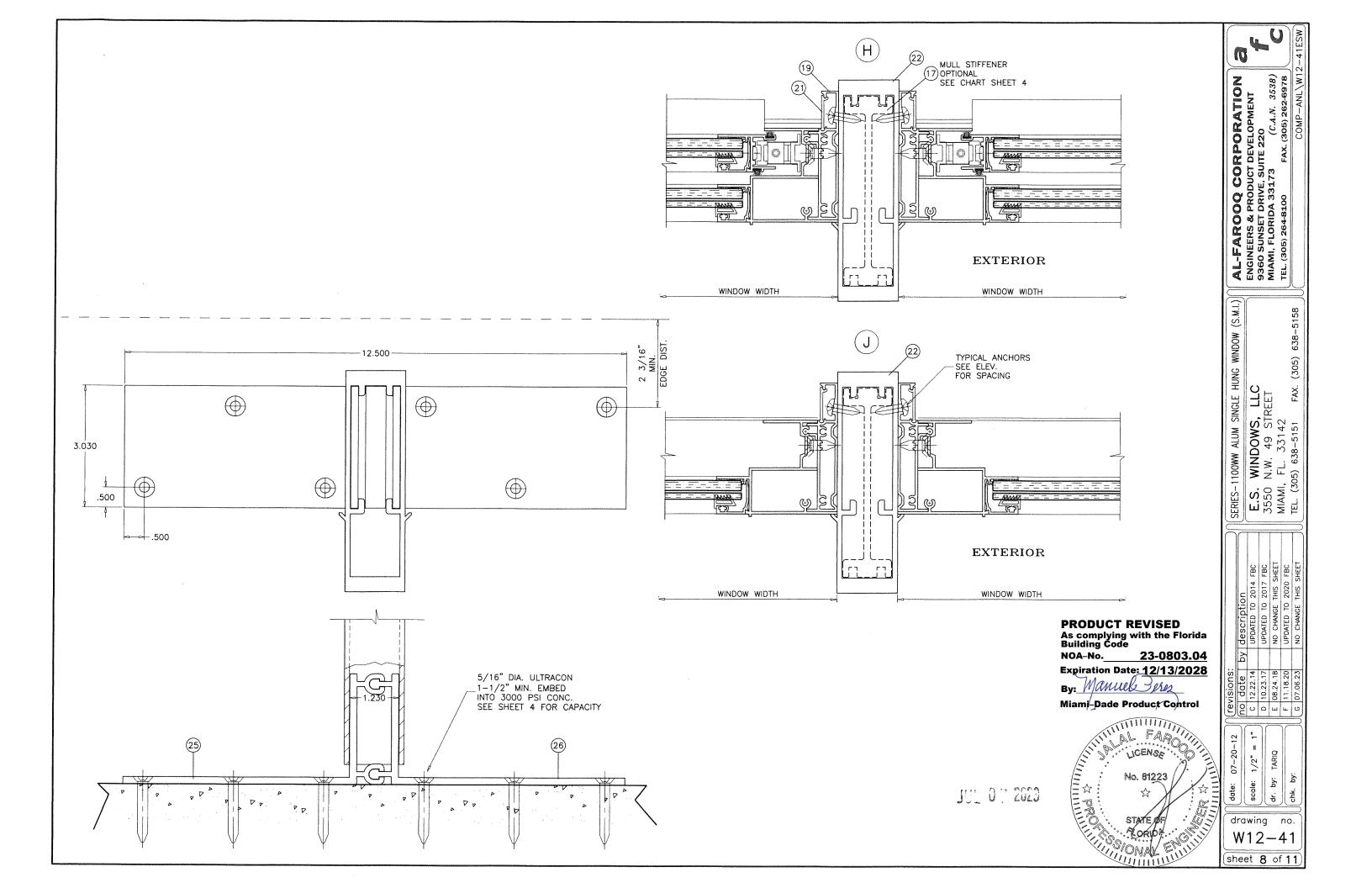
Miami-Dade Product Control

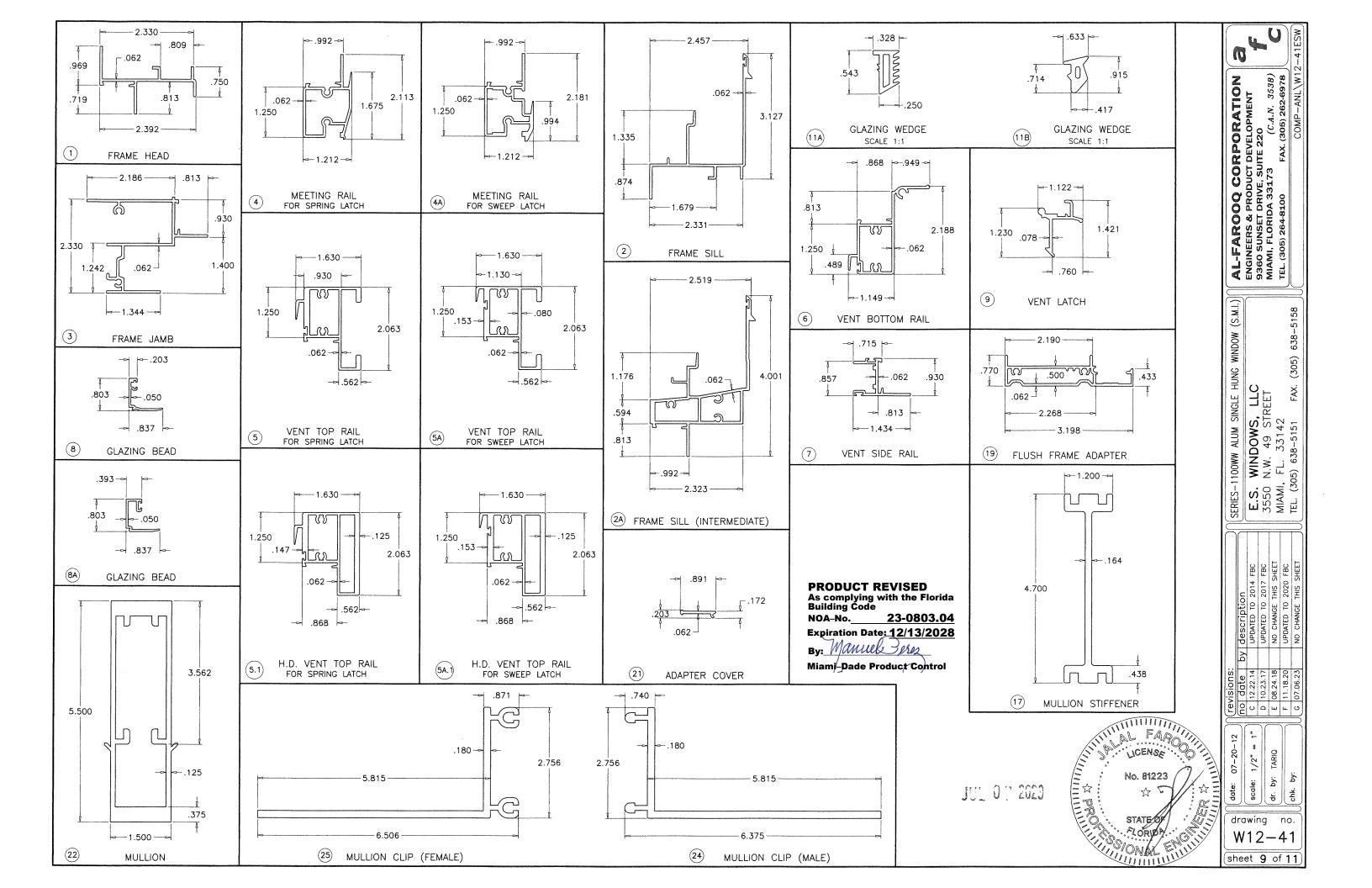
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1001	1	FRAME HEAD	6063-T6	
2	ES1101	1	FRAME SILL	6063-T6	-
2A	ES1055	1	FRAME SILL (INTERMEDIATE)	6063-T6	***
3	ES1003	2	FRAME JAMB	6063-T6	
4	ES1005	1	FIXED MTG. RAIL (FOR SPRING LATCH)	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	ES1102	AS RQD.	GLAZING BEAD	6063-T5	
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 65±5 SHORE 'A'
11B	NP-200-G02	AS REQD.	GLAZING WEDGE	EPDM	DUROMETER 65±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	
15	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
16	SERIES 86	2/ VENT	BLOCK & TACKLE BALANCE		CALDWELL
17	ES1058	AS REQD.	MULLION STIFFENER	6063-T6	
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	444
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	80-394	8/ LITE	SPACER, 1/32" X 1/2" X 4" LONG	EPDM	AT 6" FROM GLASS ENDS

SEALANT:

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

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By: Manuel Pres



JUL 0 ? 2023

Miami-Dade Product Control

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

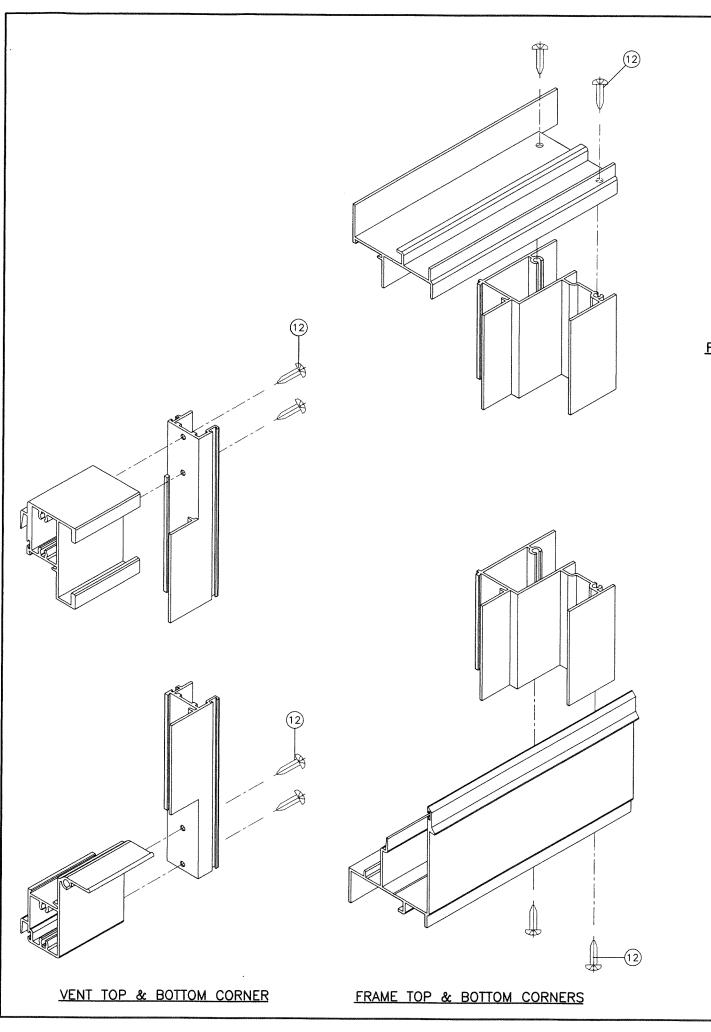
 9360 SUNSET DRIVE, SUITE 220

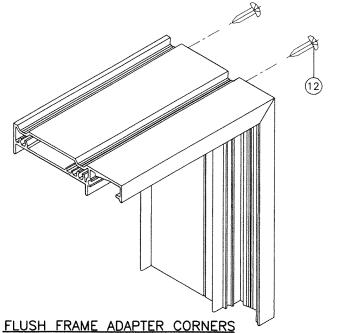
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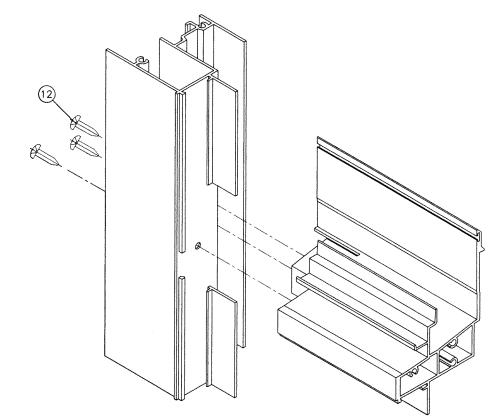
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 E.S. WINDOWS, LLC
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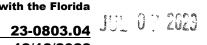


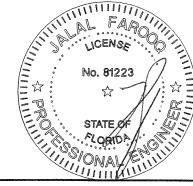
INTERMEDIATE SILL CORNER

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By: Manuel Perez Miami-Dade Product Control





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 AL-FAROOQ CORPORATION

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| SERIES-1100WW ALUM SINGLE HUNG WINDOW (S. E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-511

drawing no. W12 - 41sheet 11 of 11