

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

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

**MIAMI-DADE COUNTY** 

## **NOTICE OF ACCEPTANCE (NOA)**

Eco Window Systems, LLC 8502 NW 80 Street Medley, FL 33166

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 "ECO-Narrow" Aluminum Window Wall System – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **21-36D**, titled "Series-Narrow Alum Window Wall Sys. (L.M.I.)" sheets 1 through 17 of 17, dated 04/27/21, with revision A dated 09/10/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Approval Stamp with the Notice of Acceptance number and approval 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 consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

NOA No. 21-0517.01 Expiration Date: September 30, 2026 Approval Date: September 30, 2021

Page 1

### **Eco Window Systems, LLC**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 21-36D, titled "Series-Narrow Alum Window Wall Sys. (L.M.I.)" sheets 1 through 17 of 17, dated 04/27/21, with revision A dated 09/10/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

### B. TESTS

- 1. 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 a series 250 HR alum.
  horizontal rolling window (mockups #1 and #1B), prepared by Hurricane Engineering & Testing, Inc., Test Report No. HETI-20-8035, dated 01/04/21, signed and sealed by Rafael E. Droz-Seda, P.E.
- 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) Small Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Drop Load Test, per ANSI Z97.1, Class A, 400 ft-lb energy impact. along with marked-up drawings and installation diagram of a series "Narrow" alum. window wall system (mockup #2), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8034**, dated 01/04/21, signed and sealed by Rafael E. Droz-Seda, P.E.
- 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) Small Missile Impact Test per FBC, TAS 201-94
  - 5) Large Missile Impact Test per FBC, TAS 201-94
  - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 7) Drop Load Test, per ANSI Z97.1, Class A, 400 ft-lb energy impact. along with marked-up drawings and installation diagram of a series "Narrow" alum. window wall system (mockup #3), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8048**, dated 01/04/21, signed and sealed by Rafael E. Droz-Seda, P.E.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0517,01

Expiration Date: September 30, 2026 Approval Date: September 30, 2021

## **Eco Window Systems, LLC**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### B. TESTS (CONTINUED)

- 4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94 (4A)
  - (4A) 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
    - 3) Water Resistance Test, per FBC, TAS 202-94 (4A)
    - 4) Large Missile Impact Test per FBC, TAS 201-94 (4A and 4B)
    - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94 (4A and 4B)
  - (4B) 6) Drop Load Test, per ANSI Z97.1, Class A, 400 ft-lb energy impact. along with marked-up drawings and installation diagram of a series "Narrow" alum. window wall system (mockups #4A and #4B), prepared by Hurricane Engineering & Testing, Inc., Test Report No. HETI-20-8046, dated 01/05/21, signed and sealed by Rafael E. Droz-Seda, P.E.

### C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 7<sup>th</sup> **Edition (2020)**, dated 04/09/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Glazing complies with ASTM E1300-09/12

#### 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. 20-0915.19 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 11/19/20, expiring on 07/04/23.

#### F. STATEMENTS

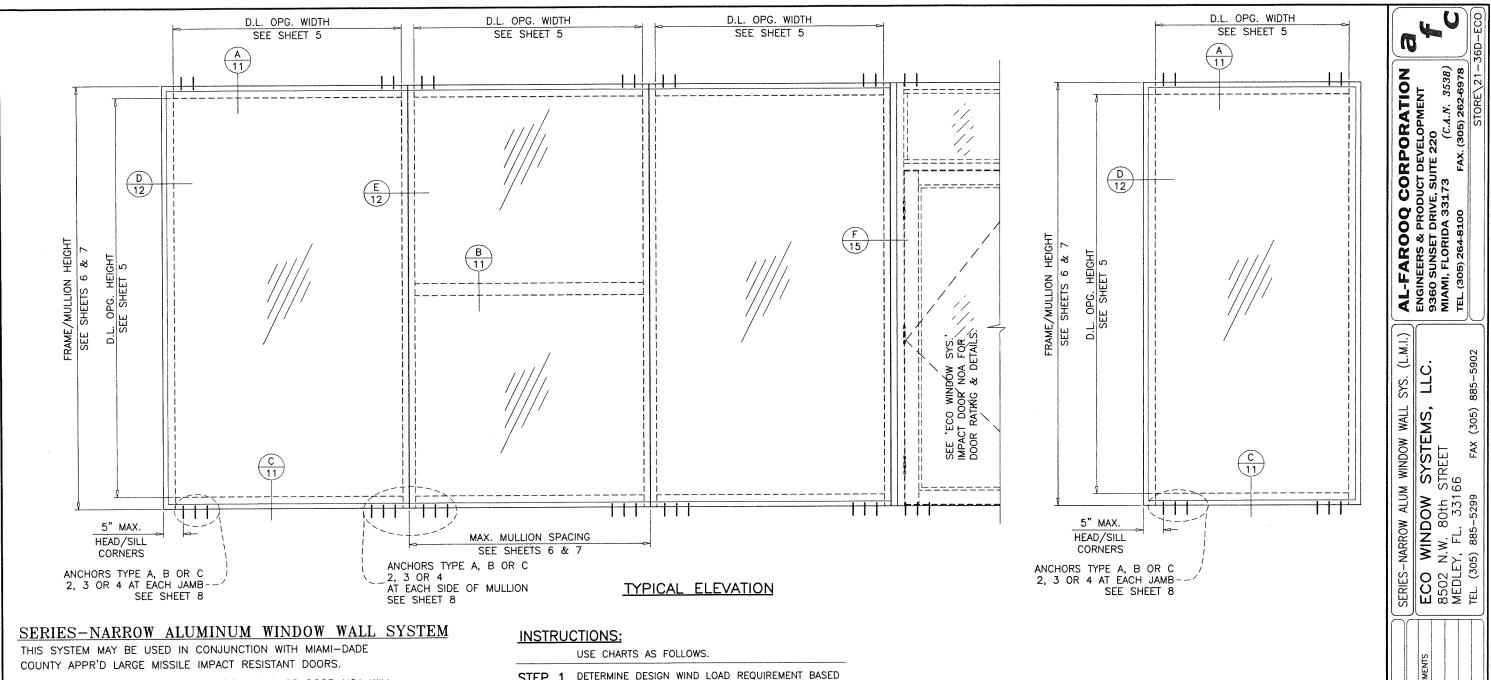
- 1. Statement letter of conformance, complying with **FBC** 7<sup>th</sup> **Edition (2020)** and of no financial interest, dated April 9, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Proposal No. 19-1128 issued by the Product Control Section, dated December 11, 2019, signed by Manuel Perez, P.E.

### G. OTHERS

1. None.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 21-0517.01

Expiration Date: September 30, 2026 Approval Date: September 30, 2021



LOWER DESIGN PRESSURE FROM WINDOW WALL OR DOOR NOA WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT NOA 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)'.

- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED STEP\_1 ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 CHECK GLASS CAPACITY TABLE ON SHEET 5 FOR GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) AND PRESSURE CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 3 WHEN USING THIS SYSTEM WITH STRUCTURAL GLAZED OPTION APPLICATIONS, CHECK 'STRUCTURAL SILICONE (SSG) AT VERTICALS LOAD CAPACITY-PSF' TABLE ON SHEET 4. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- CHECK WINDOW WALL SYSTEM CAPACITY FOR DESIRED HEIGHT AND MULLION SPACING USING CHARTS ON SHEFTS 6 & 7. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5 USING CHARTS ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 6 VERIFY UNANCHORED JAMBS, IF USED AS PER SHEETS 12 AND 14.
- THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 5 SHALL APPLY TO ENTIRE SYSTEM.
- WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

WINDOW WALL SYSTEM COMPLY WITH REQUIREMENTS OF ANSI Z97.1

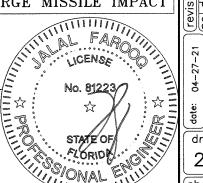
THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED

### LARGE MISSILE IMPACT

**PRODUCT APPROVED** as complying with the Florida Building Code <u>21-0517</u>.01/\(\bigsimes\) NOA-No. Approval Date: 09/30/2021 By: Manuel Peres

Miami-Dade Product Control

SEP 16 2021

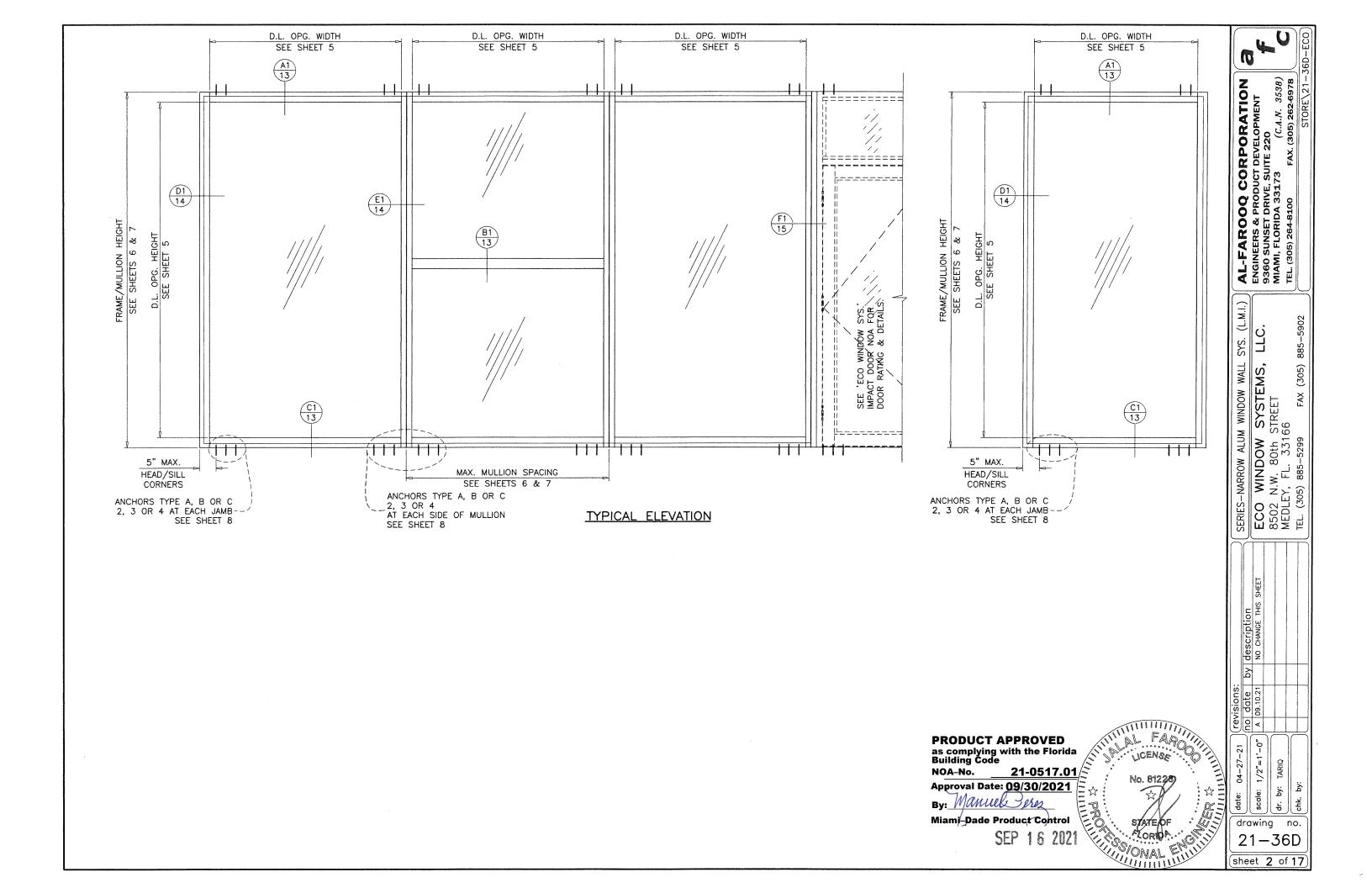


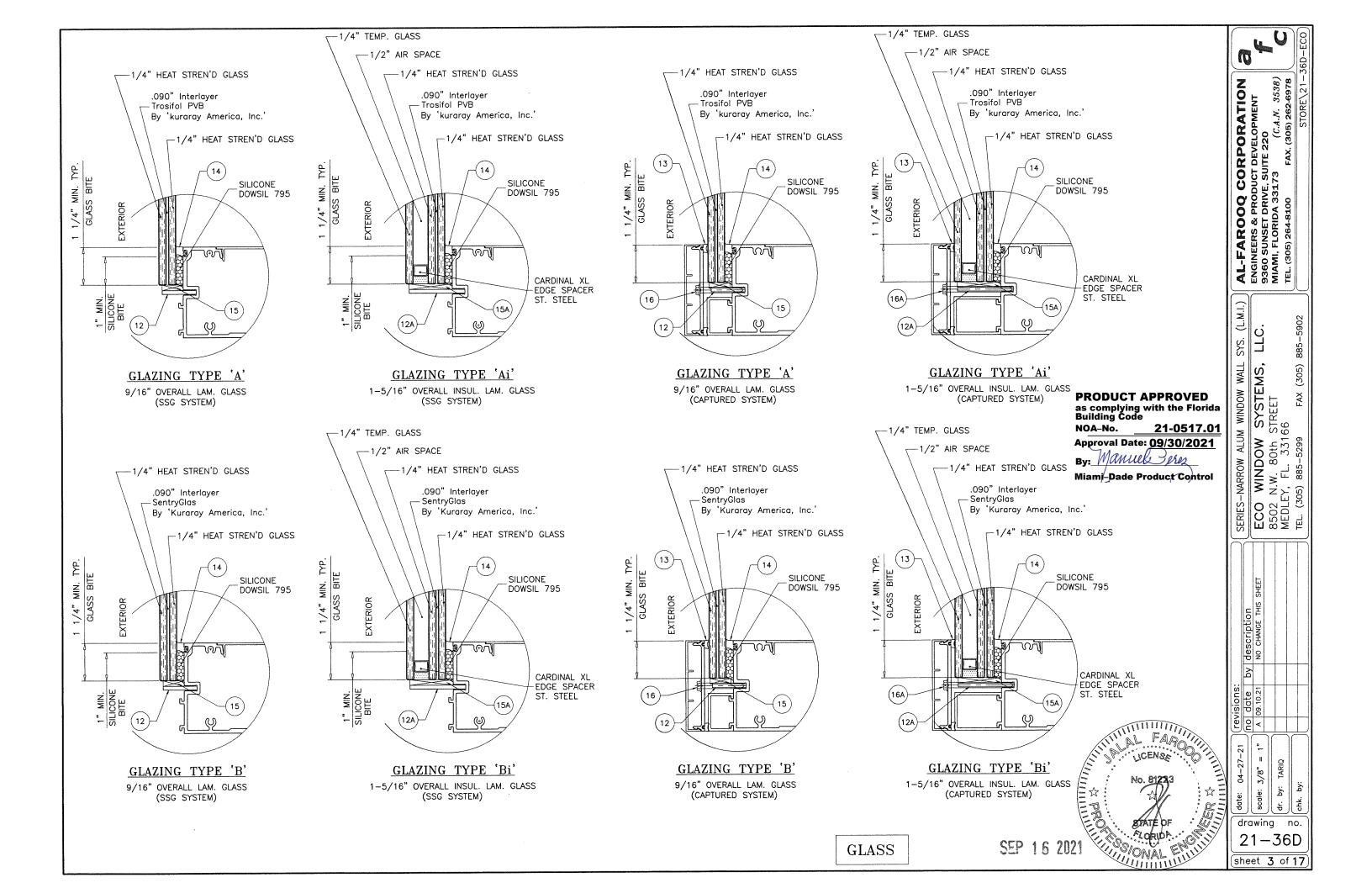
ē | ē | ₹

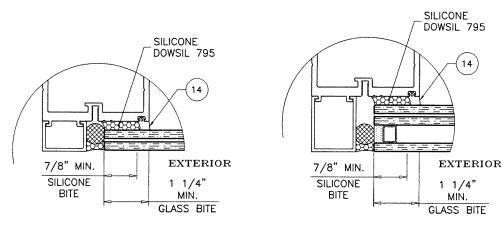
(C.A.N. 353 305) 262-697

drawing

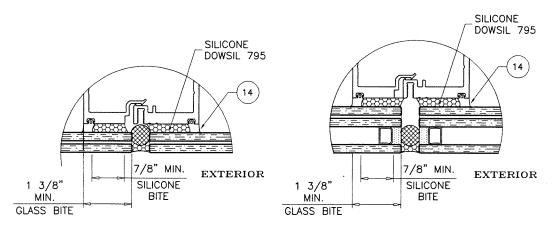
21 - 36Dsheet 1 of 17







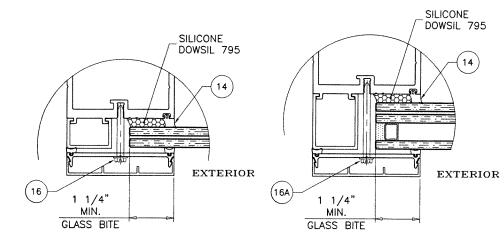
### **GLAZING DETAIL** (SSG JAMB)



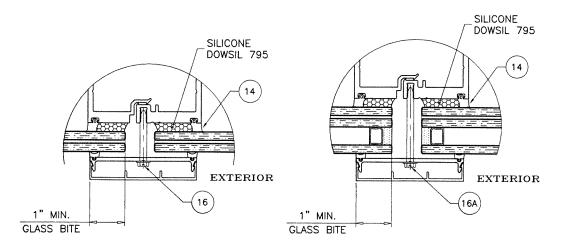
**GLAZING DETAIL** (SSG MULLION)

STRUCTURAL SI	STRUCTURAL SILICONE (SSG) AT VERTICALS										
LOAD CAPACITY - PSF											
	7/8" MIN.										
D.L.O. WIDTH	SILICONE BITE										
48"	100.0										
54"	93.3										
60"	84.0										
66"	76.4										
72"	70.0										

DESIGN LOADS FOR SILICONE WIDTHS AT SSG JAMBS/MULLIONS ONLY. LOWER DESIGN LOADS FROM SHEET 5 OR CHART ABOVE SHALL CONTROL.



**GLAZING DETAIL** (CAPTURED JAMB)



**GLAZING DETAIL** (CAPTURED MULLION)



By: Manuel Peres Miami-Dade Product Control



revisions:
no date by description
a 09.10.21 NO CHANGE THIS SHEET drawing no. 21-36D

sheet 4 of 17

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-NARROW ALUM WINDOW WALL SYS. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

SEP 16 2021

GLASS

	GLASS LOAD	D CAPAC	ITY - I	PSF		
NOMINA	L DIMS.	GLASS		GLASS 'B' &		
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
42"		75.0	75.0	100.0	100.0	
48"		75.0	75.0	100.0	100.0	
54"	- "	66.7	66.7	100.0	100.0	
60"	84"	60.0	60.0	100.0	100.0	
66"		-		90.9	90.9	
72"		_	-	83.3	83.3	
42"		75.0	75.0	100.0	100.0	
48"		75.0	75.0	100.0	100.0	
54"	"	66.7	66.7	100.0	100.0	
60"	90"	60.0	60.0	100.0	100.0	
66"		_	_	90.9	90.9	
72"			_	83.3	83.3	
42"		75.0	75.0	100.0	100.0	
48"		75.0	75.0	100.0	100.0	
54"	0.0"	66.7	66.7	100.0	100.0	
60"	96"	60.0	60.0	100.0	100.0	
66"		-	_	90.9	90.9	
72"		_	_	83.3	83.3	
42"		75.0	75.0	100.0	100.0	
48"		75.0	75.0	100.0	100.0	
54"	102"	66.7	66.7	100.0	100.0	
60"		_	_	100.0	100.0	
66"		_		90.9	90.9	
42"		75.0	75.0	100.0	100.0	
48"		75.0	75.0	100.0	100.0	
54"	108"		_	100.0	100.0	
60"		_		100.0	100.0	
66"				90.9	90.9	
42"		75.0	75.0	100.0	100.0	
48"	114"	75.0	75.0	100.0	100.0	
54"	117	_	_	100.0	100.0	
60"			_	100.0	100.0	
42"		75.0	75.0	100.0	100.0	
48"	120"	75.0	75.0	100.0	100.0	
54"	120	_	_	100.0	100.0	
60"		-	_	100.0	100.0	

	D.L.O. WIDTH	D.L.O. WIDTH	
3.	3"	<u>3"</u>	
D.L.O. HEIGHT		3"	
 "M			1

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS). PRODUCT APPROVED as complying with the Florida Building Code

NOA-No. 21-0517.01

Approval Date: 09/30/2021

By: Manuel Pres

Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33.173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

SERIES-NARROW ALUM WINDOW WALL SYS. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.

8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

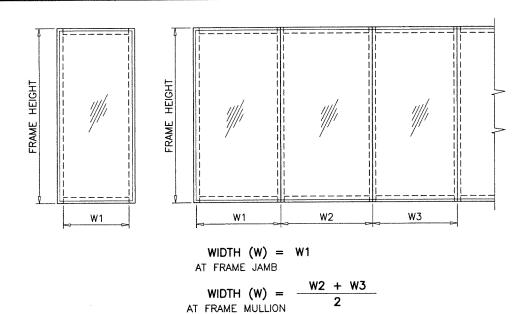
revisions:
no date by description
A 09.10.21 NO CHANGE THIS SHEET

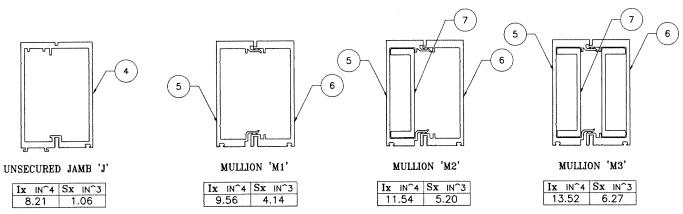
drawing no.

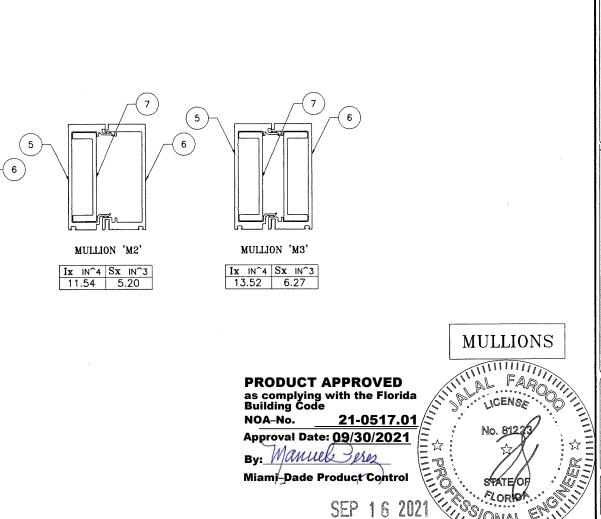
21-36D sheet 5 of 17

JAMB & MULLION LOAD CAPACITY - PSF JAMBS & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS													
NOMINA	AL DIMS.	JAM	В 'J'	MULI	'M1'	MULI	'M2'	MULI	. 'МЗ'				
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"	90	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
72"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
66"		100.0	100.0	95.5	95.5	100.0	100.0	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	108"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"		100.0	100.0	96.5	96.5	100.0	100.0	100.0	100.0				
60"		100.0	100.0	89.1	89.1	100.0	100.0	100.0	100.0				
66"		100.0	100.0	83.1	83.1	100.0	100.0	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"	1440	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	114"	100.0	100.0	89.5	89.5	100.0	100.0	100.0	100.0				
54"		100.0	100.0	81.1	81.1	97.9	97.9	100.0	100.0				
60"		100.0	100.0	74.7	74.7	90.2	90.2	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	98.6	98.6	100.0	100.0	100.0	100.0				
42"	100"	100.0	100.0	85.7	85.7	100.0	100.0	100.0	100.0				
48"	120"	100.0	100.0	76.2	76.2	91.9	91.9	100.0	100.0				
54"		100.0	100.0	68.9	68.9	83.2	83.2	97.5	97.5				
60"		100.0	100.0	63.3	63.3	76.4	76.4	89.5	89.5				

VALUES SHOWN IN CHART ABOVE APPLY TO BOTH STRUCTURAL GLAZED OPTION (SHOWN), AS WELL AS CAPTURED GLAZED OPTION APPLICATIONS.







 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-NARROW ALUM WINDOW WALL SYS. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:
no date by description
A 09.10.21 REV. PER RER

drawing

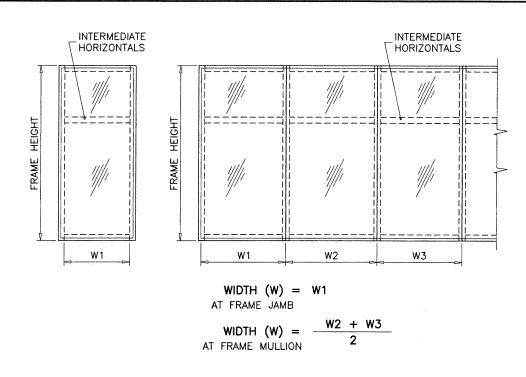
21-36D

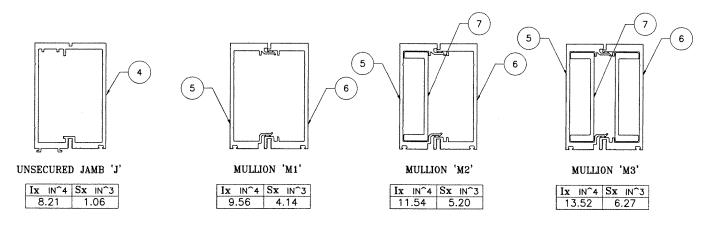
sheet 6 of 17

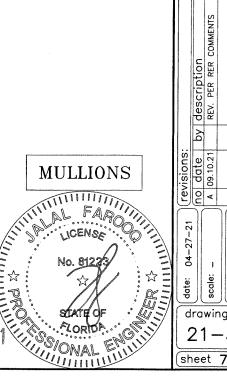
no.

JAMB & MULLION LOAD CAPACITY - PSF  JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS  NOMINAL DIVIS 12 10 10 10 10 10 10 10 10 10 10 10 10 10													
NOMINA	AL DIMS.	JAM	В 'J'	MULI	. 'M1'	MULI	_ 'M2'	MULI	. 'МЗ'				
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"	90	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
72"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
66"		100.0	100.0	90.6	90.6	100.0	100.0	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48"	108"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54"		100.0	100.0	98.1	98.1	100.0	100.0	100.0	100.0				
60"		100.0	100.0	87.2	87.2	100.0	100.0	100.0	100.0				
66"		100.0	100.0	78.5	78.5	94.7	94.7	100.0	100.0				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42"	4442	100.0	100.0	95.3	95.3	100.0	100.0	100.0	100.0				
48"	114"	100.0	100.0	83.4	83.4	100.0	100.0	100.0	100.0				
54"		100.0	100.0	74.2	74.2	89.5	89.5	100.0	100.0				
60"		100.0	100.0	66.7	66.7	80.6	80.6	94.4	94.4				
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
36"		100.0	100.0	95.4	95.4	100.0	100.0	100.0	100.0				
42"	400"	100.0	100.0	81.7	81.7	98.7	98.7	100.0	100.0				
48"	120"	100.0	100.0	71.5	71.5	86.3	86.3	100.0	100.0				
54"		100.0	100.0	63.6	63.6	76.7	76.7	89.9	89.9				
60"		98.3	98.3	57.2	57.2	69.1	69.1	80.9	80.9				

VALUES SHOWN IN CHART ABOVE APPLY TO BOTH STRUCTURAL GLAZED OPTION (SHOWN), AS WELL AS CAPTURED GLAZED OPTION APPLICATIONS.







d. drawing no. 21-36D

by:

(C.A.N. 3538) FAX. (305) 262-6978 STORE\21-3

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-NARROW ALUM WINDOW WALL SYS. (L.M.I.)

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

sheet 7 of 17

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

NOA-No.

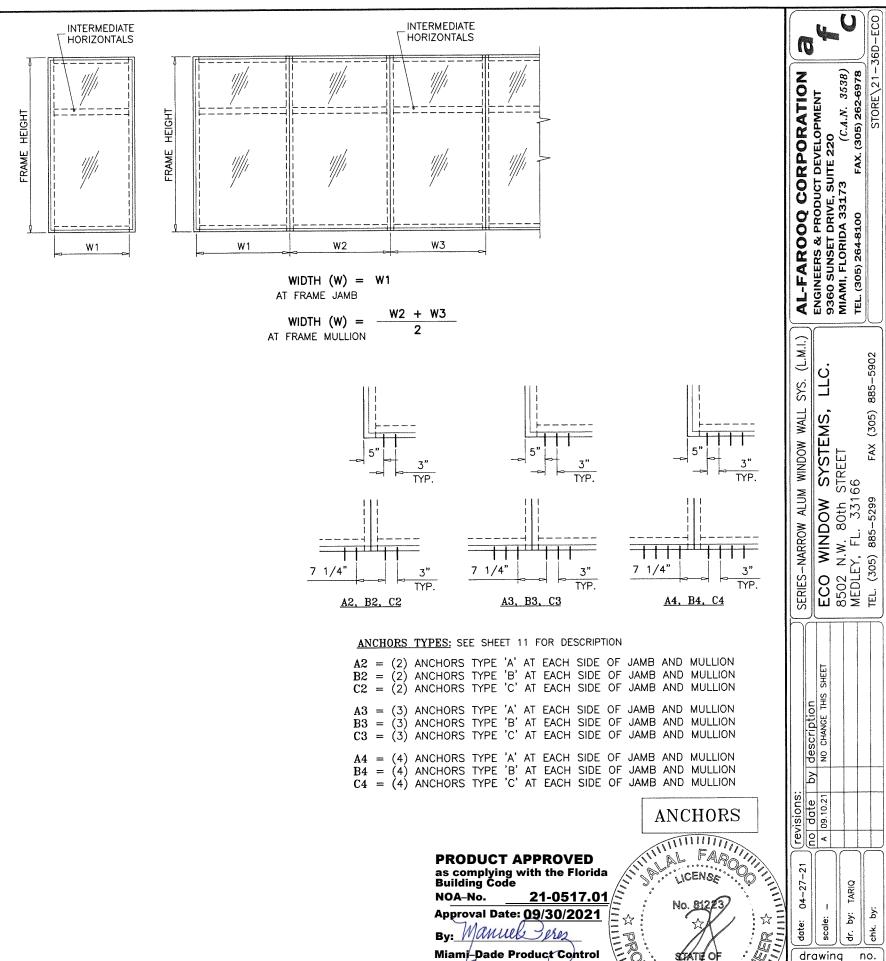
21-0517.01

Approval Date: 09/30/2021 By: Manuel Perez

Miami-Dade Product Control

SEP 16 2021

NOMIN	AL DIMS.	ANCH	ORS TYP		& INT.(-) ANCH	ORS TYP	E 'B'	ANCH	ORS TYP	E 'C'
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	В3	B4	CS	СЗ	C4
30"	THU WILL THE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		87.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42 48"		76.9	100.0	100.0	94.3	100.0	100.0	100.0	100.0	100.0
54"	84"	68.3	100.0	100.0	83.8	100.0	100.0	100.0	100.0	100.0
60"		61.5	92.2	100.0	75.4	100.0	100.0	91.0	100.0	100.0
66"		55.9	83.8	100.0	68.6	100.0	100.0	82.7	100.0	100.0
72"		51.2	76.9	100.0	62.9	94.3	100.0	75.8	100.0	100.0
72 30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		95.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"					100.0	100.0	100.0	100.0	100.0	100.0
42"	Na social real	82.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0
48"	90"	71.7	100.0	100.0	88.0					100.0
54"		63.8	95.6	100.0	78.2	100.0	100.0	94.3	100.0	
60"		57.4	86.1	100.0	70.4	100.0	100.0	84.9	100.0	100.0
66"		52.2	78.3	100.0	64.0	96.0	100.0	77.2	100.0	100.0
72"		47.8	71.7	95.6	58.7	88.0	100.0	70.8	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		89.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		76.9	100.0	100.0	94.3	100.0	100.0	100.0	100.0	100.0
48"	96"	67.3	100.0	100.0	82.5	100.0	100.0	99.5	100.0	100.0
54"	90	59.8	89.7	100.0	73.3	100.0	100.0	88.4	100.0	100.0
60"		53.8	80.7	100.0	66.0	99.0	100.0	79.6	100.0	100.0
66"		48.9	73.4	97.8	60.0	90.0	100.0	72.4	100.0	100.0
72"	1	44.8	67.3	89.7	55.0	82.5	100.0	66.3	100.0	100.0
30"		100.0	100.0	100.0	. 100.0	100.0	100.0	100.0	100.0	100.0
36"		84.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		72.3	100.0	100.0	88.7	100.0	100.0	100.0	100.0	100.0
48"		63.3	94.9	100.0	77.6	100.0	100.0	93.6	100.0	100.0
54"	102"	56.3	84.4	100.0	69.0	100.0	100.0	83.2	100.0	100.0
60"		50.6	76.0	100.0	62.1	93.2	100.0	74.9	100.0	100.0
66"		46.0	69.0	92.1	56.5	84.7	100.0	68.1	100.0	100.0
30"		95.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		79.7	100.0	100.0	97.8	100.0	100.0	100.0	100.0	100.0
42"		68.3	100.0	100.0	83.8	100.0	100.0	100.0	100.0	100.0
48"	108"	59.8	89.7	100.0	73.3	100.0	100.0	88.4	100.0	100.0
54"		53.1	79.7	100.0	65.2	97.8	100.0	78.8	100.0	100.0
60"		47.8	71.7	95.6	58.7	88.0	100.0	70.8	100.0	100.0
66"		43.5	65.2	86.9	53.3	80.0	100.0	64.3	96.5	100.0
30"		90.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		75.5	100.0	100.0	92.6	100.0	100.0	100.0	100.0	100.0
42"		64.7	97.1	100.0	79.4	100.0	100.0	95.8	100.0	100.0
42 48"	114"	56.6	84.9	100.0	69.5	100.0	100.0	83.8	100.0	100.0
48 54"		50.3	75.5	100.0	61.8	92.6	100.0	74.5	100.0	100.0
			68.0	90.6	55.6	83.4	100.0	67.0	100.0	100.0
60"	-	45.3		<del> </del>	100.0	100.0	100.0	100.0	100.0	100.0
30"		86.1	100.0	100.0		<del> </del>	<del> </del>	100.0	100.0	100.0
36"		71.7	100.0	100.0	88.0	100.0	100.0		<del> </del>	<del> </del>
42"	120"	61.5	92.2	100.0	75.4	100.0	100.0	91.0	100.0	100.0
48"		53.8	80.7	100.0	66.0	99.0	100.0	79.6	100.0	100.0
54"		47.8	71.7	95.6	58.7	88.0	100.0	70.8	100.0	100.0

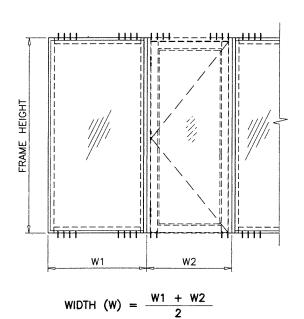


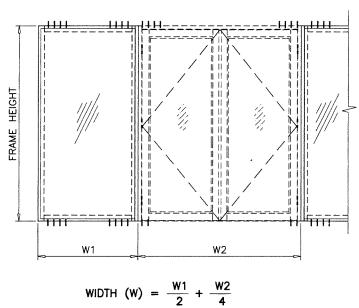
drawing

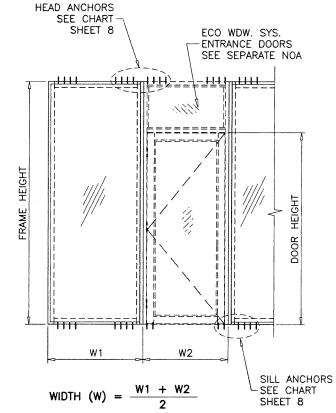
21-36D sheet **8** of **17** 

no.

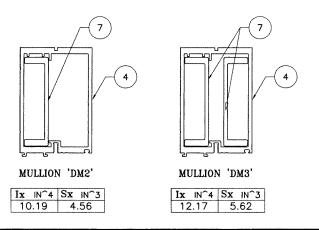
	DOOR MULLI	ON LOA	D CAPA	CITY	
NOMIN	NAL DIMS.		MULL MULL		MULL MULL
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"		100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"	90"	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"	96"	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0
36"	-	- 100.0 100.0			
42"		100.0	100.0	100.0	100.0
48"	102"	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"	108"	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		94.7	94.7	100.0	100.0
30"		100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"	114"	100.0	100.0	100.0	100.0
48"		97.0	97.0	100.0	100.0
54"		90.8	90.8	100.0	100.0
60"		85.4	85.4	100.0	100.0
30"		100.0	100.0	100.0	100.0
36"		96.3	96.3	100.0	100.0
42"	120"	89.3	89.3	100.0	100.0
48"		83.2	83.2	99.3	99.3
54"		77.9	77.9	93.0	93.0
60"		73.2	73.2	87.4	87.4







VALUES SHOWN IN CHART ABOVE APPLY TO BOTH STRUCTURAL GLAZED OPTION (SHOWN), AS WELL AS CAPTURED GLAZED OPTION APPLICATIONS.





PRODUCT APPROVED as complying with the Florida Building Code
NOA-No. 21-0517.01

Approval Date: 09/30/2021

By: Manuel Peres

Miami-Dade Product Control SEP 1 6 2021



		by description	REV. PER RER COMMENTS		The state of the s			
		ğ	Æ		4_	1		L
		i						
	revisions:	no date	A 09.10.21					
_	(je)	no	٧					
	date: 04-27-21		scale: -		dr. by: TARIQ		( 1.6.	cnk. by:
	d	ra	wii	ng		n	0	

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

STORE\21-36

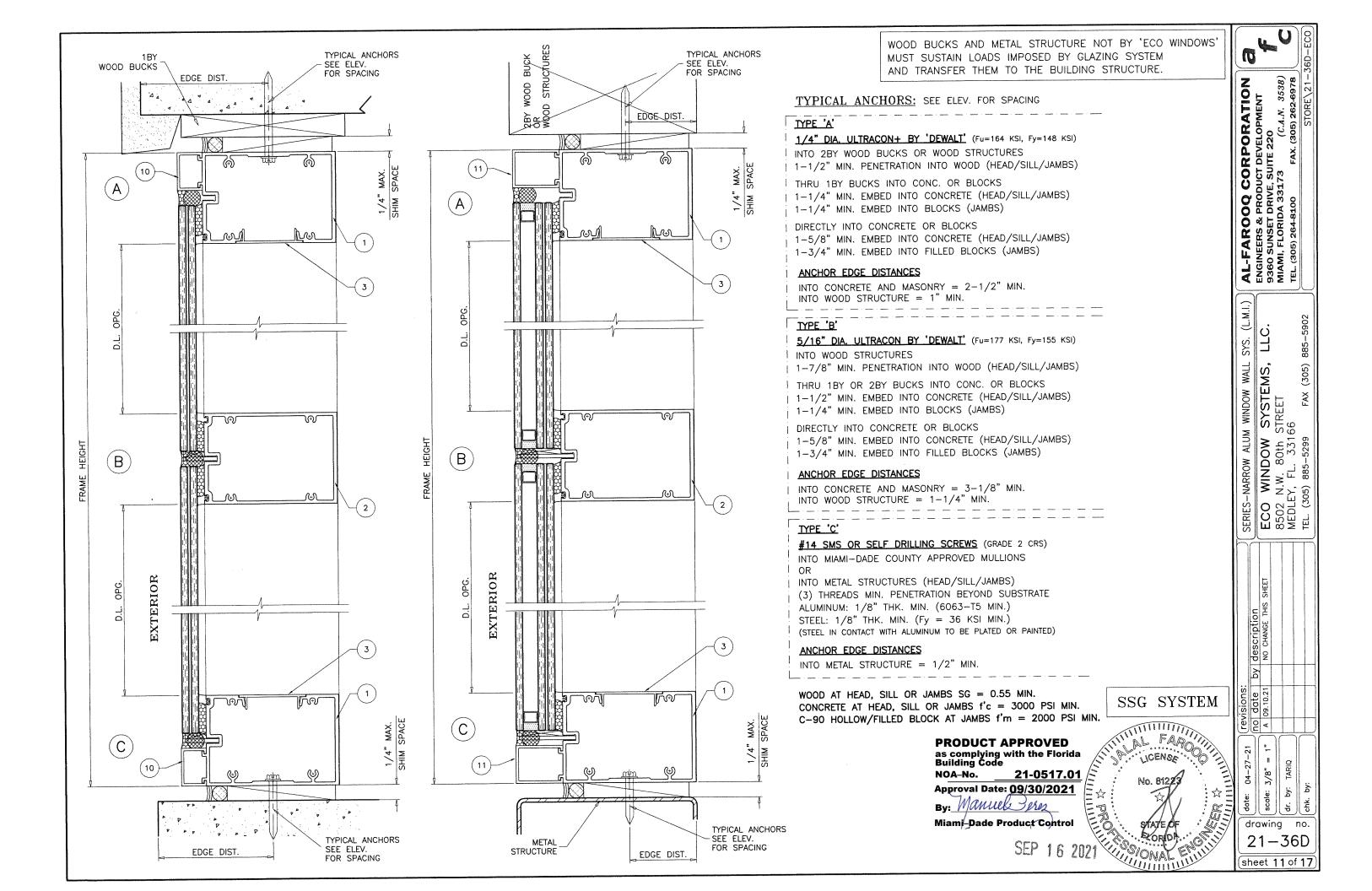
SERIES-NARROW ALUM WINDOW WALL SYS. (L.M.I.)

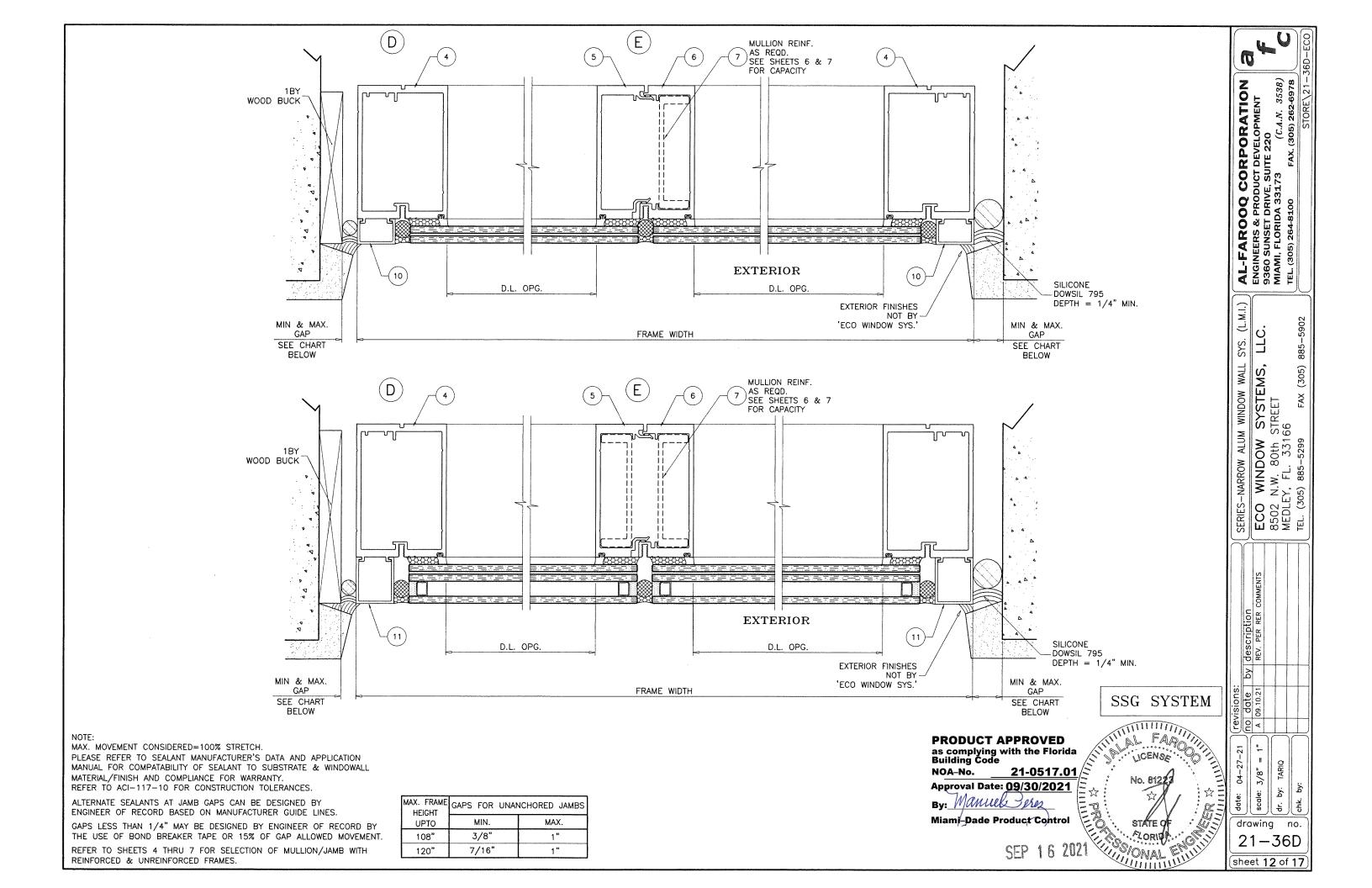
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

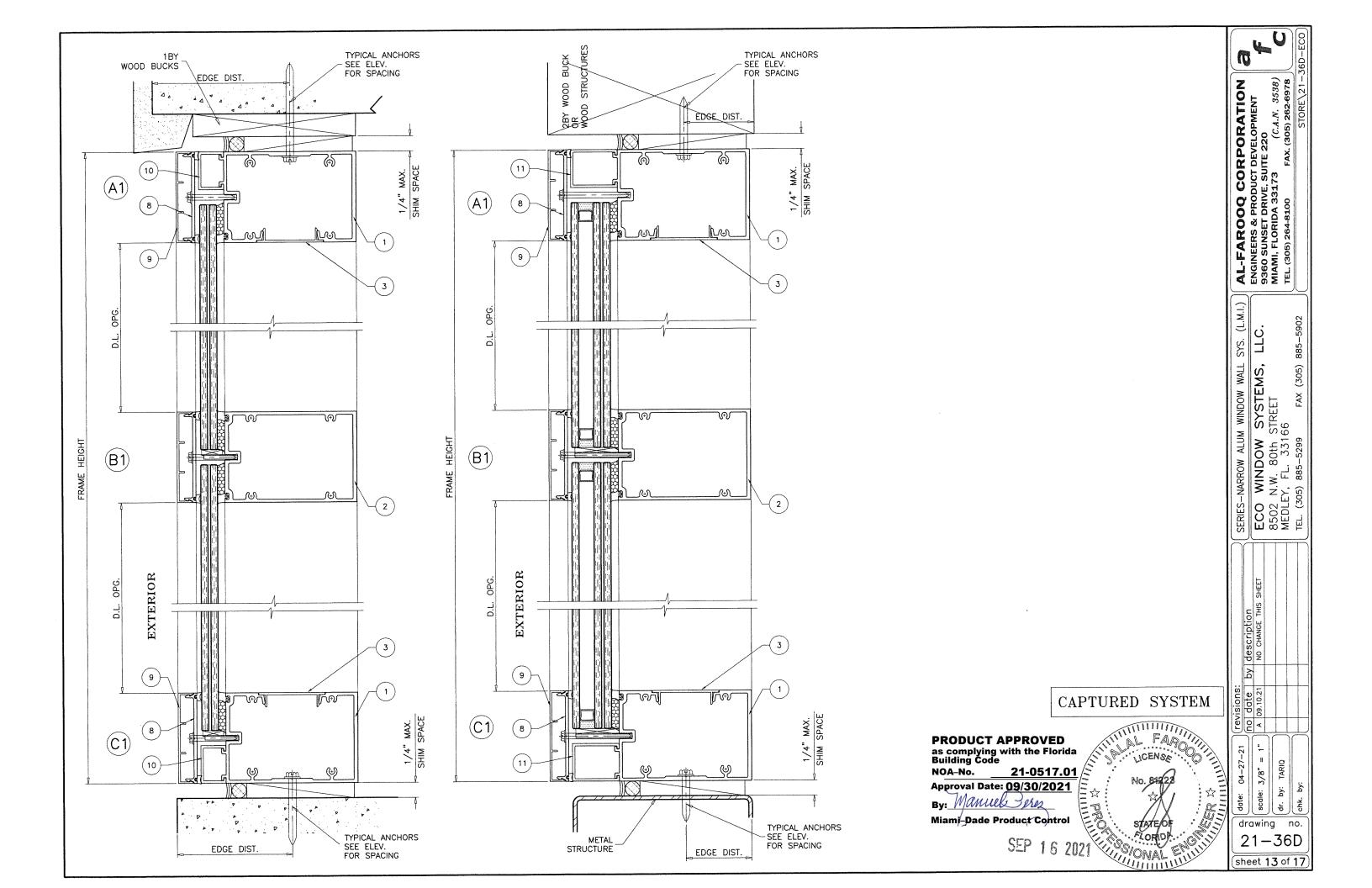
21-36D

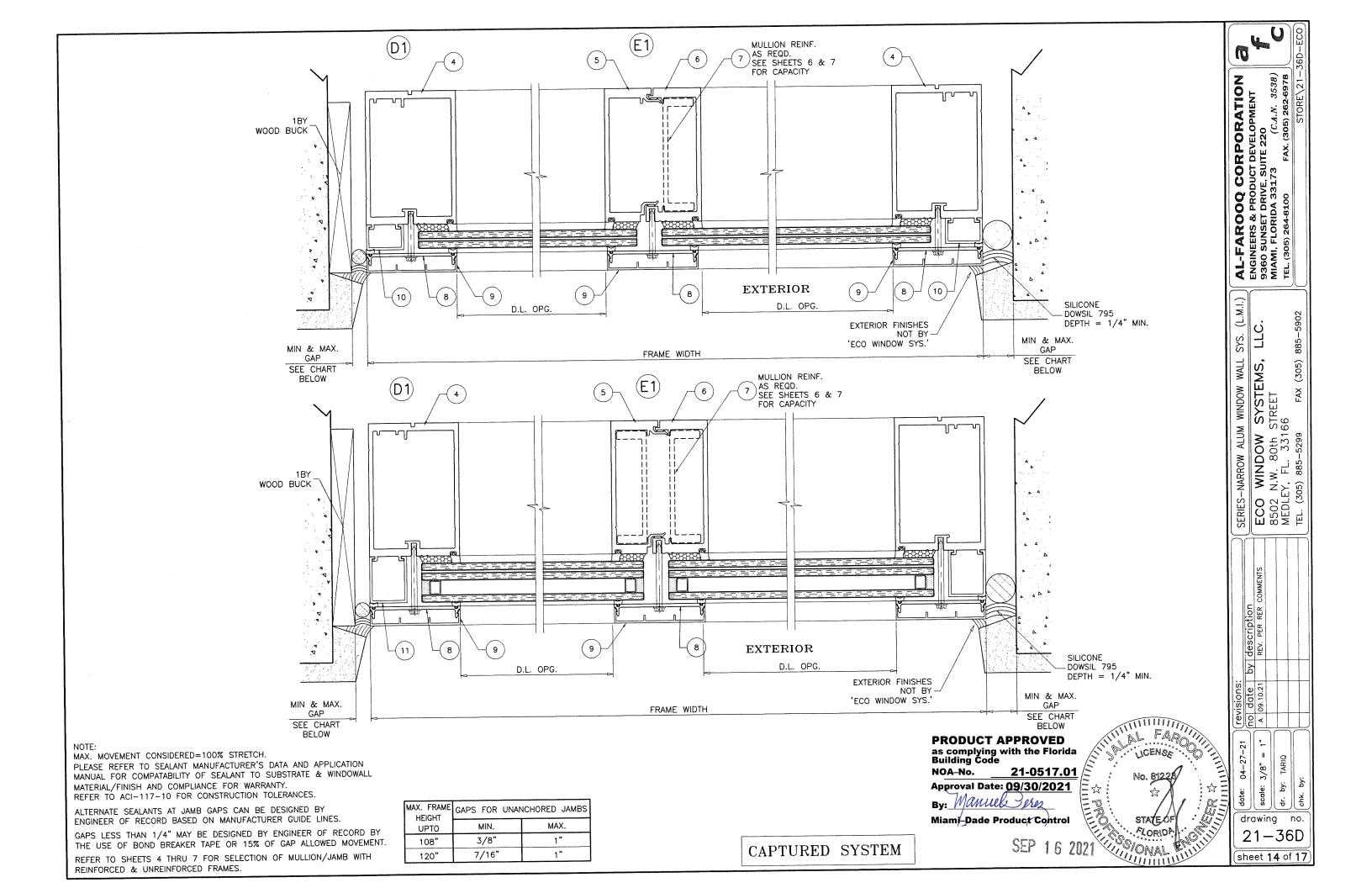
sheet 9 of 17

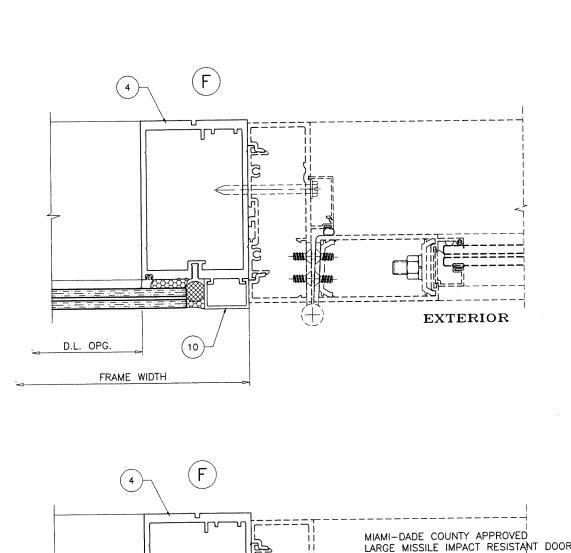
	DOOR	MULLION LO	AD CAPACI	TY - PSF			DOOR M	ULLION LO	AD CAPACI	ΓY – PSF			DOOR N	AULLION LO	N LOAD CAPACITY - PSF				7	
				DOOR MULL	DOOR MULL		NOM	INAL DIMS.		DOOR MULL	DOOR MULL 'DM3'		NOM	INAL DIMS.		DOOR MULL	DOOR MULL 'DM3'			36D-
WIDTH (		FRAME HEIGHT	DOOR HEIGHT	'DM2' EXT.(+) INT.(-)		WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT INCHES	EXT.(+) INT.(-)		WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)		/   (4)	538) 538) 3978
INCHE		INCHES	INCHES		100.0 100.0	INCHES	INCHES 30	INCHES	INCHES	100.0 100.0	100.0 100.0	11101120	30				100.0 100.0			ORPORATION CT DEVELOPMENT SUITE 220 '3 (C.A.N. 3538, FAX. (305) 262-6978 STORE\21-
	36	-			100.0 100.0		36		:		100.0 100.0		36				100.0 100.0			PRA OPIN C.A., 05) 2
	42	102			100.0 100.0		42	102			100.0 100.0 100.0 100.0		42	114		98.1 98.1	100.0 100.0			Y. (3)
	48 54	-			100.0 100.0 100.0 100.0		54				100.0 100.0		54				100.0 100.0	MULLIC	N 'DM2'	ORPO CT DEVEL SUITE 22 '3 FAX. (3
	60	1			100.0 100.0		60				100.0 100.0	76	60		108		100.0 100.0	Ix in^4	Sx IN^3 4.56	CO ODUCT VE, SU 3173
	66				100.0 100.0		66 30				100.0 100.0 100.0 100.0		30					10.13	1.50	ORIV DRIV DRIV 100
	30			100.0 100.0	100.0 100.0 100.0 100.0		36				100.0 100.0		42	120		87.4 87.4	100.0 100.0			% & 1
	42	100		100.0 100.0	100.0 100.0		42	108			100.0 100.0		48	120		81.6 81.6 76.5 76.5	97.4 97.4 91.3 91.3			AR EERS SUNS FLC FLC
	48	108			100.0 100.0		48				100.0 100.0 100.0 100.0		54 60			72.0 72.0				GINI 60 S 80 S 80 S
	54 60			94.4 94.4 89.4 89.4	100.0 100.0 100.0 100.0		54 60			97.9 97.9	100.0 100.0		30			100.0 100.0	100.0 100.0		′ <b> </b>	AL- ENGI 9360 MIAN
	66	-	0.1"	84.9 84.9	_	76	66		96		100.0 100.0		36				100.0 100.0			
76	30		84"	99.1 99.1	100.0 100.0	. "	30				100.0 100.0 100.0 100.0	76	42	120	114		100.0 100.0			(L.M.I.) C. 5902
	36 42			92.7 92.7 87.0 87.0	100.0 100.0		36 42			96.6 96.6	100.0 100.0		54			78.8 78.8	<del></del>			SYS. ( LLC 885-56
	48	114			97.9 97.9		48	114		90.4 90.4	100.0 100.0		60				88.4 88.4	MULLIC	ON 'DM3'	
	54			77.6 77.6			54 60			85.0 85.0 80.3 80.3	95.8 95.8	IN	ITERPOLATIO	ON BETWE	EN WIDTH	IS OR HEIGH	HTS ALLOWED.		Sx IN <sup>3</sup> 5.62	ALUM WINDOW WALL  DW SYSTEMS,  1th STREET  33166  5299 FAX (305)
	30		-	73.6 73.6 82.0 82.0	_		30		1		100.0 100.0	HE	AD ANCHORS					L		STE ET FAX
	36	_		76.8 76.8			36				100.0 100.0	(10) RE	AT 3" O.C QD. TYPE 'A	,		ECO W	OW. SYS.			SYS IN
	42	120		72.3 72.3			42	120		79.3 79.3 74.5 74.5	94.7 94.7 89.0 89.0	(9) RE	QD. TYPE 'B QD. TYPE 'C	' \		- ENTRAN SEE SE	OW. SYS. ICE DOORS IPARATE NOA			M
	48 54			68.2 68.2 64.6 64.6	81.5 81.5 77.2 77.2		48 54			70.2 70.2				2_		<del>-</del>	4411444			≥    O ⊗    i
	60			63.7 63.7			60			66.4 66.4	79.3 79.3	Ā.				J.	= 7			NARROW ALUI WINDOW N.W. 80th 'Y, FL. 331
	30			100.0 100.0			30 36				100.0 100.0		and the state of t							11 1 1 2 1
	36	_		100.0 100.0	100.0 100.0		42	400			100.0 100.0		A CONTRACTOR OF THE CONTRACTOR				-,-   - -        	A Section 1		ECO 8502 MEDL! TEL. (3
	48	102		100.0 100.0	100.0 100.0		48	108			100.0 100.0	<u>⊢</u>			/					8 W 8 Z F
	54				100.0 100.0		54 60				100.0 100.0	EIGH			/			<b>-</b>		
	60 66	_			100.0 100.0		66		"		100.0 100.0	AE H			1 2			HEIGH		MIS
	30				100.0 100.0	76	30		102"		100.0 100.0	FRA	L Lu a		74		11.71111	1		ОММЕІ
	36				100.0 100.0		36	-			100.0 100.0			1   1   				DOOR		ION KER CI
	42	108			100.0 100.0 100.0 100.0		42	114		94.7 94.7			L COMPANY OF THE PARTY OF THE P							PER F
	54			99.2 99.2			54				100.0 100.0									description REV. PER RER (
	60			93.7 93.7			60		-		99.9 99.9	. ↓	<del>  </del>	777	<del></del>			<u> </u>		p yd
7	66		90"	88.7 88.7 100.0 100.		41	30 36	1			100.0 100.0					W1				
	36	_		97.8 97.8		-{	42	120			99.6 99.6			/			* 1		R MULLION	revisions:
	42	114			100.0 100.0		48	-		78.1 78.1 73.4 73.4	93.3 93.3 87.7 87.7		/	SILL ANCH					L FAROUR	NO P P P P P P P P P P P P P P P P P P P
	48			86.0 86.0 81.1 81.			54 60				82.7 82.7			(8) REQD.	TYPE 'A'		T APPROVE	D Orida	LICENSE	-21
	60			76.8 76.8	91.7 91.7			, <u>, , , , , , , , , , , , , , , , , , </u>				=		(6) REQD.	IANF B	Building Connection	ing with the Floode 21-0517	7 01	Morisok O	4-27-
	30			86.2 86.2													21-051 / Pate: <u>09/30/20</u>		No. 81223	by: T   by:
	36 42			80.5 80.5 75.5 75.5		1										7.1	uel Perez	50		scale:
	42	120		71.1 71.	1 84.9 84.9											Miamj-Dad	e Product Cont		STATE OF	drawing no.
	54			67.2 67.3		VALUES	S SHOWN IN	CHART ABO	VE APPLY T	O BOTH STRUC	CTURAL GLAZED	OPTION (SH	IOWN),				SEP 16	2021	CONAL ENTITY	21-360
	60			63.7 63.	7 76.1 76.1	J AS WE	LL AS CAPTU	IKED GLAZE	D OPHON A	FFLICATIONS.								·//		sheet 10 of 17

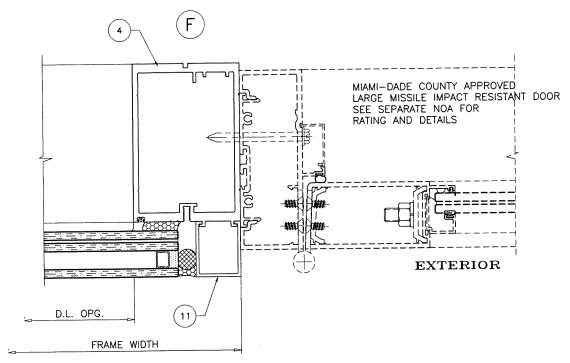


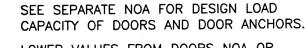




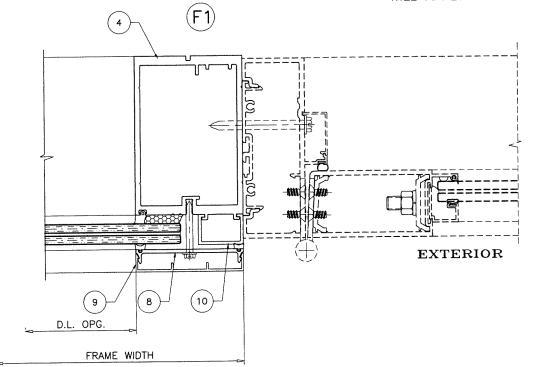


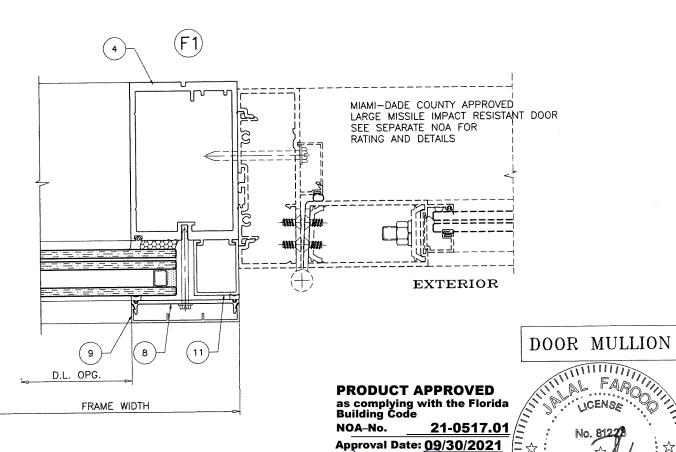






LOWER VALUES FROM DOORS NOA OR WINDOW WALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.





By: Manuel Peres Miami-Dade Product Control

SEP 16 2021

U

 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.)

ECO WINDOW SYSTEMS, I
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-500

revisions: no date A 09.10.21

21 - 36Dsheet 15 of 17

