

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

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

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-450" Aluminum Window Wall System w/wo Reinforcement – L.M.I.

APPROVAL DOCUMENT: Drawing No. **20-03D**, titled "Series 450 Alum. Window Wall System (L.M.I.)" sheets 1, 2, 3, 4, 5, 6, 6.1, 7 and 8 of 8, dated 01/15/20, with revision **B** dated 03/22/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision Stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 20-0128.02 and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

NOA No. 21-0419.04 Expiration Date: October 02, 2025 Approval Date: August 05, 2021 Page 1

Eco Window Systems, LLC

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. 20-0128.02)
- 2. Drawing No. 20-03D, titled "Series 450 Alum. Window Wall System (L.M.I.)" sheets 1 through 8 of 8, dated 01/15/20, with revision A dated 04/02/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 20-0128.02)

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) 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 450 aluminum window wall system w/entrance door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-9911**, dated 01/18/18, signed and sealed by Idalmis Ortega, P.E.

(Submitted under NOA No. 20-0128.02)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC 7th Edition (2020), dated 01/16/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
 - (Submitted under NOA No. 20-0128.02)
- 2. Glazing complies with ASTM E1300-09

D. **QUALITY ASSURANCE**

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 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.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0419.04

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC** 7th Edition (**2020**), and of no financial interest, dated 07/24/20, prepared by Al-Farooq Corporation and signed and sealed by Jalal Farooq, P.E.

(Submitted under NOA No. 20-0128.02)

2. Proposal No. 17-1071 issued by the Product Control Section, dated October 20, 2017, signed by Manuel Perez, P.E.

(Submitted under NOA No. 20-0128.02)

G. OTHERS

1. None.

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0419.04

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **20-03D**, titled "Series 450 Alum. Window Wall System (L.M.I.)" sheets 1, 2, 3, 4, 5, 6, 6.1, 7 and 8 of 8, dated 01/15/20, with revision **B** dated 03/22/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, 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) Water Resistance Test, per FBC, TAS 202-94
 - 4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
 - 5) 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 250 HR alum. horizontal rolling window over a series 450 WW alum. window wall system (mockup #1), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8015**, dated 03/31/20, signed and sealed by Rafael E. Droz-Seda, P.E.
- 2. Test reports on: 1) Small Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 3) 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 250 HR alum. horizontal rolling window over a series 450 WW alum. window wall system (mockup #2), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8029**, dated 03/05/20, signed and sealed by Rafael E. Droz-Seda, P.E.
- **3.** Test reports on: 1) Small 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 (mockup #3), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8030**, dated 03/05/20, signed and sealed by Rafael E. Droz-Seda, P.E.
- 4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with marked-up drawings and installation diagram of a series 250 HR alum. horizontal rolling window over a series 450 WW alum. window wall system (mockup #4), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8017**, dated 02/18/20, signed and sealed by Rafael E. Droz-Seda, P.E.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0419.04

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. NEW EVIDENCE SUBMITTED (CONTINUED)
- B. TESTS (CONTINUED)
 - 5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 3) 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 250 HR alum. horizontal rolling window over a series 450 WW alum. window wall system (mockup #5), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8027**, dated 03/04/20, signed and sealed by Rafael E. Droz-Seda, P.E.
 - **6.** Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with marked-up drawings and installation diagram of a series 250 HR alum. horizontal rolling window over a series 450 WW alum. window wall system (mockup #6), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8028**, dated 03/04/20, signed and sealed by Rafael E. Droz-Seda, P.E.
 - 7. 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 a series 450 WW alum. window wall system (mockup #7), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8032**, dated 03/06/20, signed and sealed by Rafael E. Droz-Seda, P.E.
 - **8.** Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Small Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94 along with marked-up drawings and installation diagram of a series 450 WW alum. window wall system (mockup #8), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8040**, dated 03/26/20, signed and sealed by Rafael E. Droz-Seda, P.E.
 - 9. 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

along with marked-up drawings and installation diagram of a series 250 HR alum. horizontal rolling window over a series 450 WW alum. window wall system (mockup #9), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8098**, dated 12/07/20, signed and sealed by Rafael E. Droz-Seda, P.E.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0419.04

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. NEW EVIDENCE SUBMITTED (CONTINUED)
- B. TESTS (CONTINUED)
 - 10. 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) 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 450 WW alum. window wall system (mockup #10), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8100**, dated 12/08/20, signed and sealed by Rafael E. Droz-Seda, P.E.

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 7th **Edition (2020)**, dated 01/16/20 and revised on 03/04/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 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.

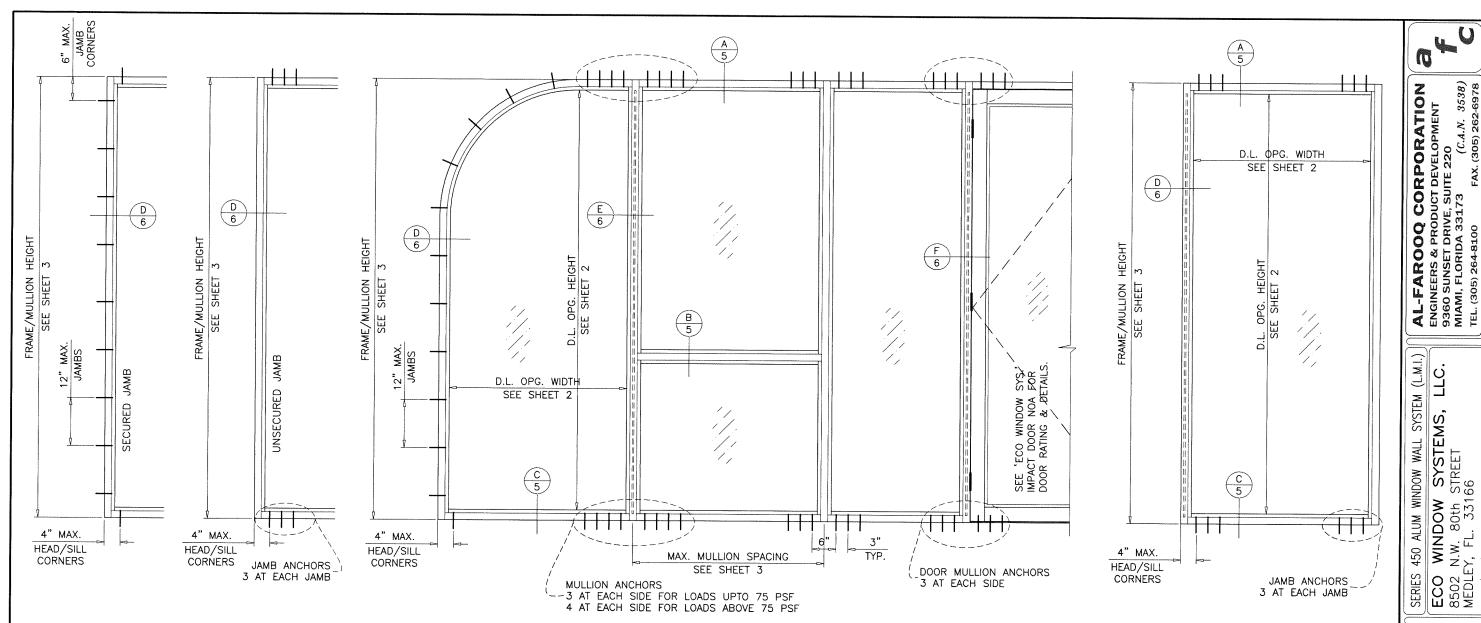
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC** 7th **Edition (2020)** and of no financial interest, dated March 04, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-0128.02**, issued to Eco Window Systems, LLC for their Series "ECO-450" Aluminum Window Wall System – L.M.I., approved on 10/02/20 and expiring on 10/02/25.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0419.04



SERIES 450 ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED LARGE MISSILE IMPACT RESISTANT DOORS.

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)'.

TYPICAL ELEVATION

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 CHECK GLASS CAPACITY TABLE ON SHEET 2 FOR GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) AND PRESSURE CAPACITY.
 - THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 3 CHECK WINDOW WALL SYSTEM CAPACITY FOR DESIRED HEIGHT AND MULLION SPACING USING CHARTS ON
 - THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 6 DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 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.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

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

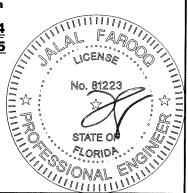
LARGE MISSILE IMPACT

PRODUCT REVISED as complying with the Florida **Building Code** NOA-No. 21-0419.04

Expiration Date: 10/02/2025 By: Manuel Peres

Miami-Dade Product Control

APR 0 2 2021



		by description	REV. PER RER COMMENTS	NEW TEST ADDED		
4		a				
	isions:	date	04.02.20	03.22.21		

& PRODUCT DEVELS
ET DRIVE, SUITE 220
RIDA 33173 (C.4.N. 3538)
FAX. (305) 262-6978
CTORE\ 20-0

WINDOW SYSTEMS,

N.W. 80th STREET

EY, FL. 33166

605) 885–5299 FAX (305) 8

ECO WINDO 8502 N.W. 80 MEDLEY, FL. TEL. (305) 885-4

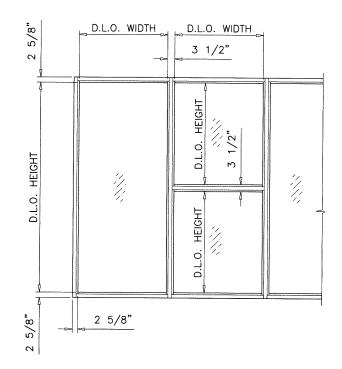
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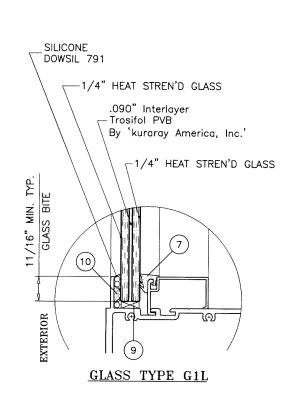
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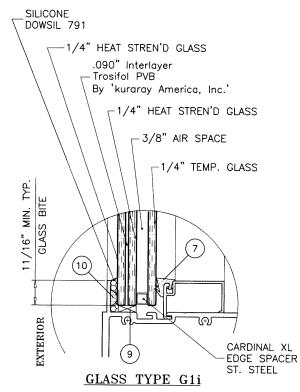
drawing no.

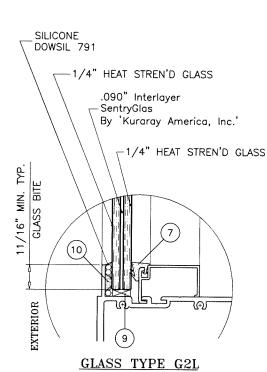
20-03D sheet 1 of 8

GLASS LOAD CAPACITY - PSF						
NOMINA	L DIMS.	GLASS TYPES 'G1L' & 'G1i'		GLASS		1
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
30-3/4"		70.0	75.0	80.0	90.0	1
33-3/4"		70.0	75.0	80.0	90.0	1
36-3/4"		70.0	75.0	80.0	90.0	1
39-3/4"		70.0	75.0	80.0	90.0	1
42-3/4"	78-3/4"	70.0	75.0	80.0	90.0]
45-3/4"		65.9	70.6	80.0	90.0	
48-3/4"		62.2	66.7	80.0	90.0	
51-3/4"		58.9	63.2	80.0	90.0	
54-3/4"		56.0	60.0	80.0	90.0	
57-3/4"		-	_	76.2	85.7	
60-3/4"		_	-	72.7	81.8	1
30-3/4"		70.0	75.0	80.0	90.0	
33-3/4"		70.0	75.0	80.0	90.0	
36-3/4"		70.0	75.0	80.0	90.0	
39-3/4"	84-3/4"	70.0	75.0	80.0	90.0	
42-3/4"	,	70.0	75.0	80.0	90.0	
45-3/4"		65.9	70.6	80.0	90.0	
48-3/4"		62.2	66.7	80.0	90.0	
51-3/4"		58.9	63.2	80.0	90.0	▎.
54-3/4"				80.0	90.0	
57-3/4"		_		76.2	85.7	ALLOWED
30-3/4"		70.0	75.0	80.0	90.0	
33-3/4"		70.0	75.0	80.0	90.0	ı
36-3/4"		70.0	75.0	80.0	90.0	HEIGHTS
39-3/4"	90-3/4"	70.0	75.0	80.0	90.0	필
42-3/4"		70.0	75.0	80.0	90.0	i i
45-3/4"		65.9	70.6	80.0	90.0	A.
48-3/4"	-	62.2	66.7	80.0	90.0	Ϋ́
51-3/4"	-	-	-	80.0	90.0	IDTHS
54-3/4"		-		80.0	90.0	₹
30-3/4"		70.0	75.0	_		N N
33-3/4"	06 7/4"	70.0	75.0	-		₩E
36-3/4"	96-3/4"	70.0	75.0	-		BETWEEN
39-3/4"	-	70.0	75.0	-		
42-3/4"		70.0	75.0	-		INTERPOLATION
30-3/4"		70.0	75.0	_		Ä
33-3/4"	102-3/4"	70.0	75.0	-	_	3PC
36-3/4" 39-3/4"	102-3/4"	70.0	75.0	-	-	担
42-3/4"	-	70.0	75.0 75.0	_		Z









GLAZING OPTIONS

PRODUCT REVISED as complying with the Florida Building Code

NOA-No. <u>21-0419.04</u>
Expiration Date: <u>10/02/2025</u>
By: Manuel Pres

Miami-Dade Product Control APR 0 2 2021

NO. 84229

STATE OF

STORIDA

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: #3	dro	awir	0.71	no.
	1 41	J 44 11	'9	110.
	20) —	0.	3D
~	she	et	2	of 8

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

GLASS

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

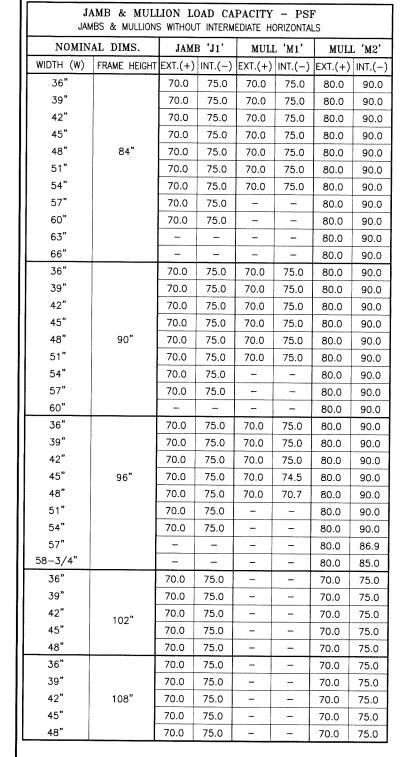
SERIES 450 ALUM WINDOW WALL SYSTEM (L.M.I.)

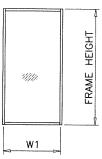
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885–5299 FAX (305) 885–5902

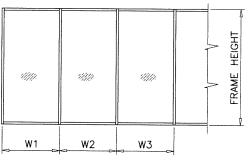
by description

REV. PER RER COMMENTS

NEW TEST ADDED

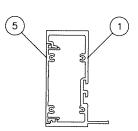






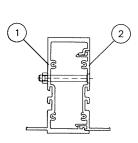
WIDTH (W) = W1AT FRAME JAMB

<u>W2</u> + W3 WIDTH (W) =AT FRAME MULLION



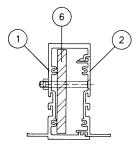
UNSECURED JAMB 'J1'

x	IN^4	Sx	IN^3
4	155	2	Ω2



MULLION 'M1'

Ix	IN^4	Sx	IN^3
4.3	758	2.1	274

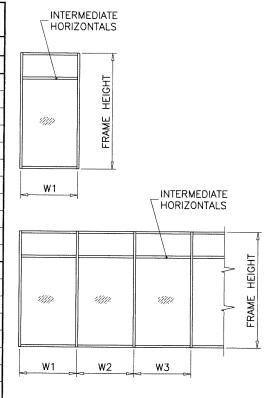


MULLION 'M2'

	Ix IN^4	Sx IN^3
ALUMINUM	4.3758	2.1274
STEEL	1.2058	.7656
TOTAL	7.4004	

JAMB & MULLION LOAD CAPACITY - PSF JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS

				Ţ			
NOMIN	AL DIMS.	JAMI	3 'J1'	MULI	. 'M1'	MULI	'M2'
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"		70.0	75.0	70.0	75.0	80.0	90.0
39"		70.0	75.0	70.0	75.0	80.0	90.0
42"		70.0	75.0	70.0	75.0	80.0	90.0
45"		70.0	75.0	70.0	75.0	80.0	90.0
48"	84"	70.0	75.0	70.0	75.0	80.0	90.0
51"		70.0	75.0	70.0	75.0	80.0	90.0
54"		70.0	75.0	70.0	75.0	80.0	90.0
57"		70.0	75.0	_		80.0	90.0
60"		70.0	75.0	_	-	80.0	90.0
63"		_				80.0	90.0
66"		_	-	_		80.0	86.7
36"		70.0	75.0	70.0	75.0	80.0	90.0
39"		70.0	75.0	70.0	75.0	80.0	90.0
42"		70.0	75.0	70.0	75.0	80.0	90.0
45"		70.0	75.0	70.0	75.0	80.0	90.0
48"	90"	70.0	75.0	70.0	75.0	80.0	90.0
51"		70.0	75.0	70.0	73.0	80.0	90.0
54"		70.0	75.0	-	_	80.0	90.0
57"		70.0	75.0	_	-	80.0	87.5
60"		_	_	_	-	80.0	83.1
36"		70.0	75.0	70.0	75.0	80.0	90.0
39"		70.0	75.0	70.0	75.0	80.0	90.0
42"		70.0	75.0	70.0	73.1	80.0	90.0
45"	96"	70.0	75.0	68.2	68.2	80.0	90.0
48"	•	70.0	75.0	63.9	63.9	80.0	90.0
51"		70.0	75.0	-	_	80.0	85.9
54"		70.0	75.0	-	-	80.0	81.1
57"		-	_	-	-	76.9	76.9
58-3/4"		-	_	_		74.6	74.6
36"		70.0	75.0	-		70.0	75.0
39"		70.0	75.0	-		70.0	75.0
42"	102"	70.0	75.0	_		70.0	75.0
45"	102	70.0	75.0	_	-	70.0	75.0
48"		70.0	75.0	-	-	70.0	75.0
36"		70.0	75.0	-	-	70.0	75.0
39"	Ī	70.0	75.0	-	-	70.0	75.0
42"	108"	70.0	75.0	_	-	70.0	75.0
45"	Ī	70.0	75.0	-	-	70.0	75.0
48"		70.0	72.7	-		70.0	72.7



 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

SYSTEM (L.M.I.)

SERIES 450 ALUM WINDOW WALL

LC.

ECO WINDOW SYSTEMS, L 8502 N.W. 80th STREET MEDLEY, FL. 33166 TEL. (305) 885–5299 FAX (305) 889

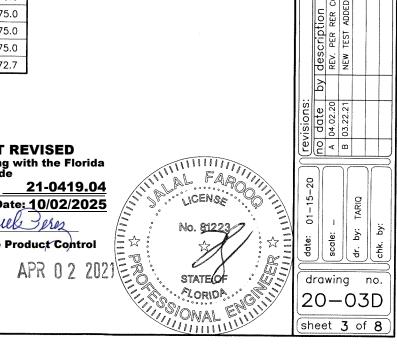
WIDTH (W) = W1AT FRAME JAMB

W2 + W3WIDTH (W) =AT FRAME MULLION

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0419.04

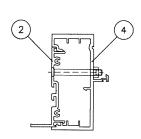
Expiration Date: 10/02/2025 By: Manuel Peres

Miami-Dade Product Control



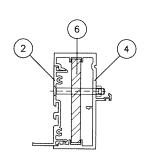
MULLION

DOOR MULLION LOAD CAPACITY					
NOMI	NAL DIMS.		HOUT INF.		TH INF.
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
37"		70.0	75.0	70.0	75.0
38-1/2"		70.0	75.0	70.0	75.0
40"		70.0	75.0	70.0	75.0
41-1/2"	84"	70.0	75.0	70.0	75.0
43"	04	70.0	75.0	70.0	75.0
44-1/2"		70.0	75.0	70.0	75.0
46"		70.0	75.0	70.0	75.0
47-1/2"		70.0	75.0	70.0	75.0
49"		70.0	74.8	70.0	75.0
37"		70.0	75.0	70.0	75.0
38-1/2"		70.0	75.0	70.0	75.0
40"		70.0	75.0	70.0	75.0
41-1/2"		70.0	75.0	70.0	75.0
43"	90"	70.0	74.3	70.0	75.0
44-1/2"		70.0	71.8	70.0	75.0
46"			_	70.0	75.0
47-1/2"		-		70.0	75.0
49"			_	70.0	75.0
37"	' <u> </u>	70.0	74.0	70.0	75.0
38-1/2"		70.0	71.1	70.0	75.0
40"		68.5	68.5	70.0	75.0
41-1/2"	96"	66.0	66.0	70.0	75.0
43"		63.7	63.7	70.0	75.0
44-1/2"				70.0	75.0
46"		-		70.0	75.0
47-1/2"	***************************************			70.0	75.0
37"		_		70.0	75.0
38-1/2"		-		70.0	75.0
40"	102"			70.0	75.0
41-1/2"]			70.0	75.0
43"				70.0	75.0
44-1/2"				70.0	75.0
37"				70.0	75.0
38-1/2"				70.0	75.0
40"	108"			70.0	75.0
41-1/2"		_		70.0	75.0
43"		_		70.0	75.0



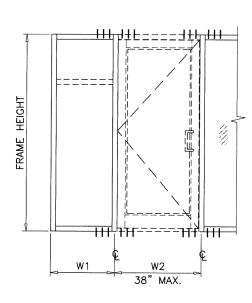


Ix	IN^4	Sx	IN^3
3.9	9038	1.8	3241

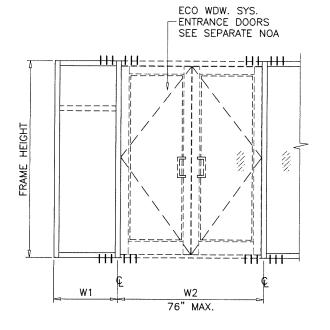


DOOR MULLION WITH REINF.

	Ix IN^4	Sx IN^3
ALUMINUM	3.9038	1.8241
STEEL	1.3398	3.6217
TOTAL IX ALUM + IX STL X 2.9	7.7507	



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



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$

PRODUCT REVISED
as complying with the Florida
Building Code

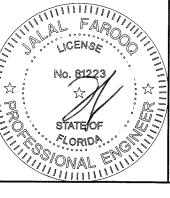
NOA-No. 21-0419.04

Expiration Date: 10/02/2025

By: Manuel Peres

Miami-Dade Product Control

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V)		
	JCT DEVELOPMENT	220	(0 4 N 9590)
	JCT DE	SUITE 220	47

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

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

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

| SERIES 450 ALUM WINDOW WALL SYSTEM (L.M.I.) | | ECO WINDOW SYSTEMS, LLC. | 8502 N.W. 80th STREET | MEDLEY, FL. 33166 | TEL. (305) 885-5992 | FAX (305) 885-5902 | |

by description

REV. PER RER COM

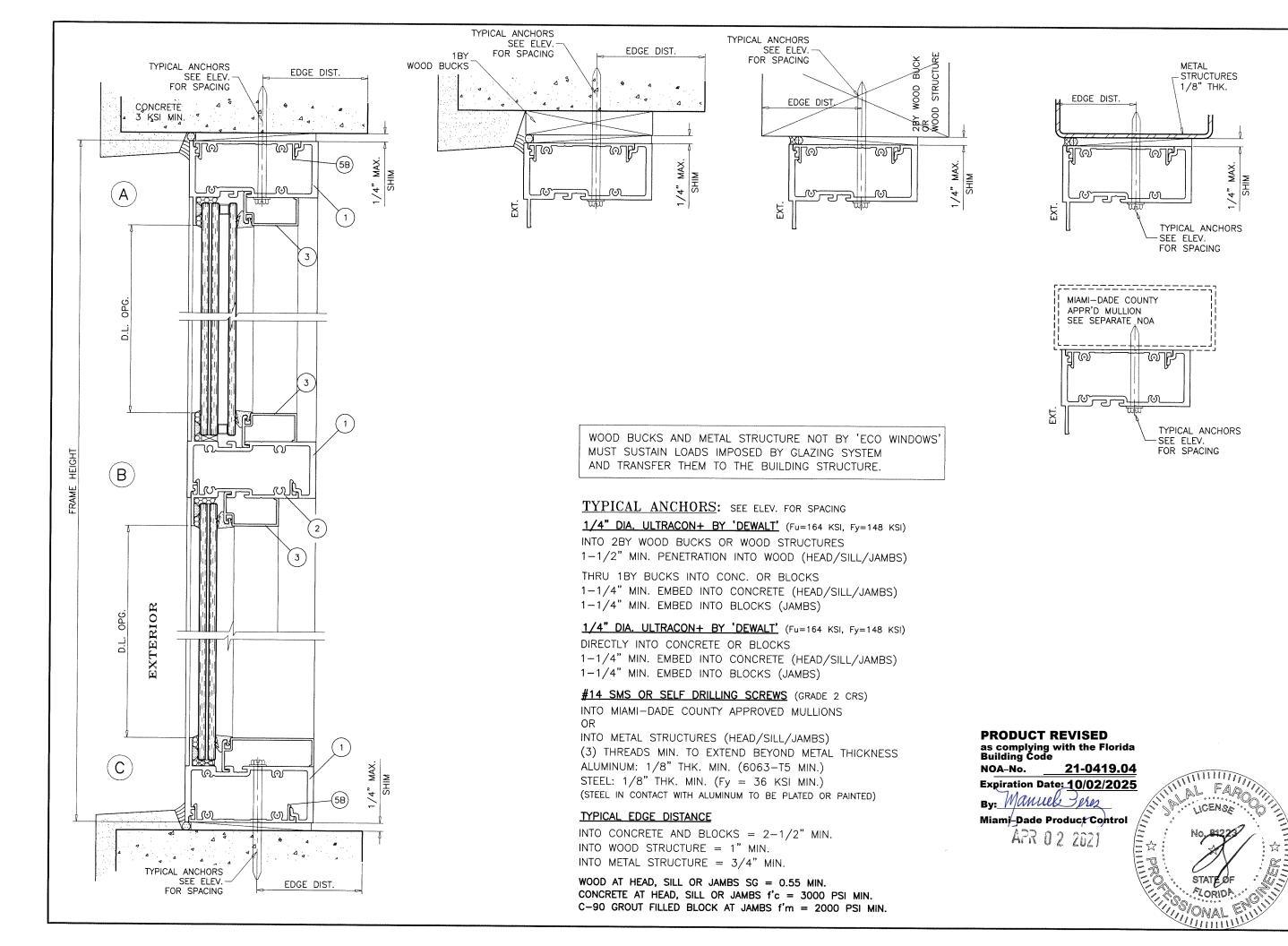
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drawing no. 20-03D

sheet 4 of 8

DOOR MULLION



 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

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

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

SERIES 450 ALUM WINDOW WALL SYSTEM (L.M.I.)

LCC

ECO WINDOW SYSTEMS, I 8502 N.W. 80th STREET MEDLEY, FL. 33166 TEL. (305) 885–5299 FAX (305) 88

by description
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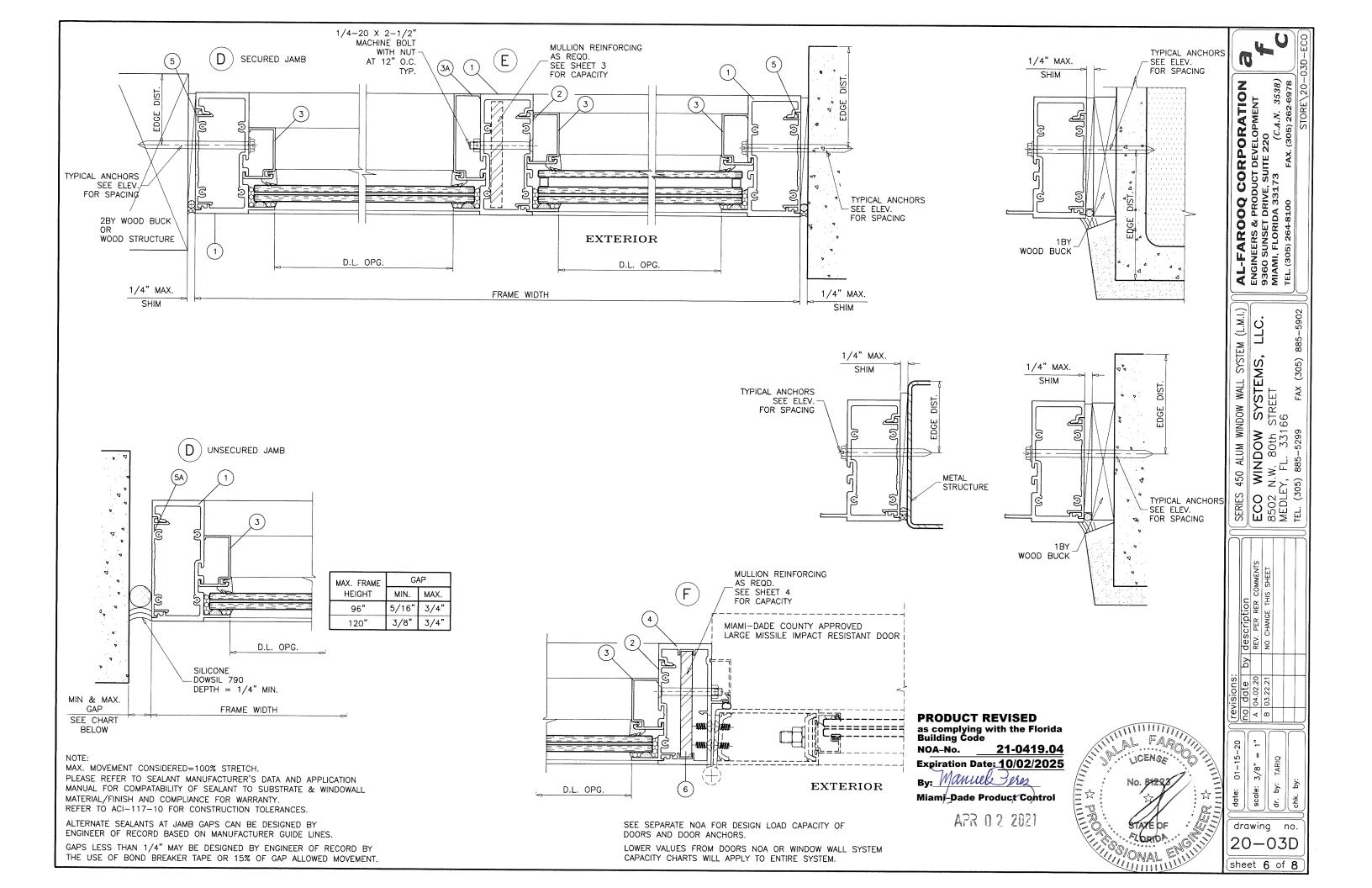
drawing no.

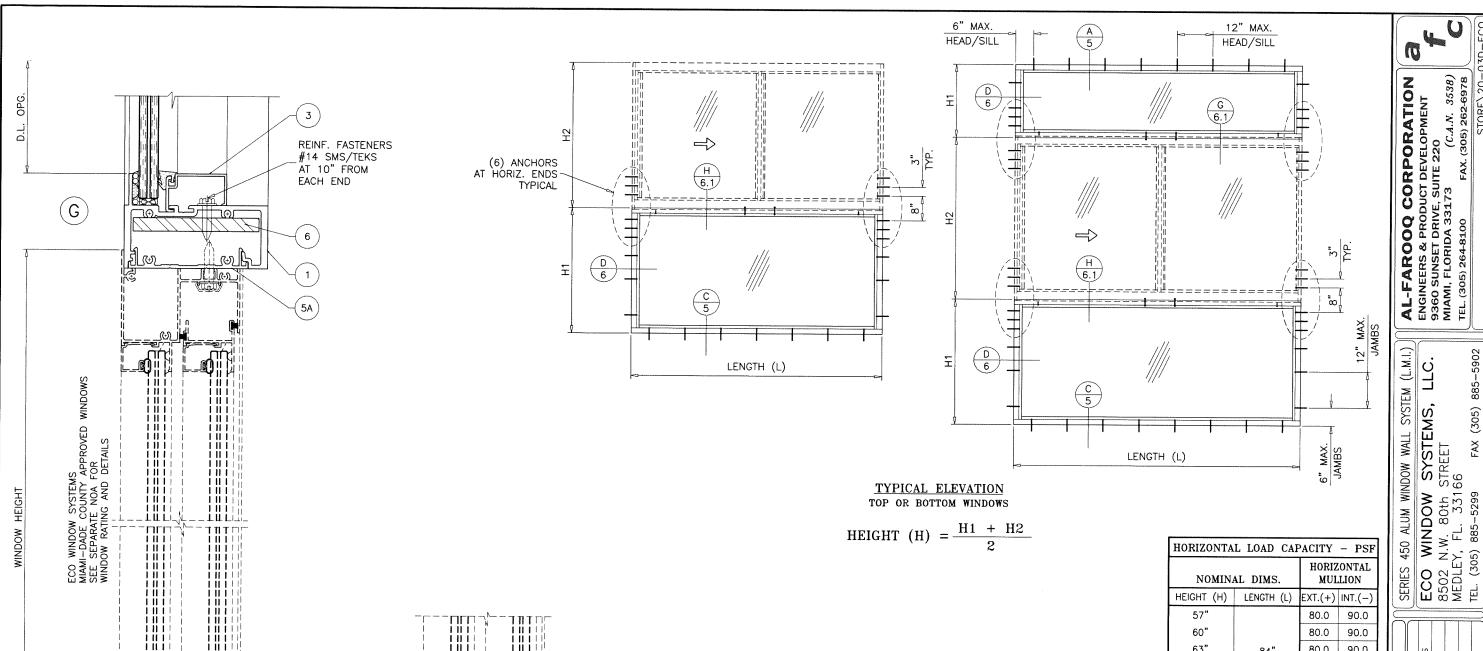
20-03D

sheet 5 of 8

01-15-20

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





(2) 1/4" DIA. BOLT AND NUT —AT MTG. STILE LOCATION AT 10" O.C.

NOTES:

LOAD CAPACITY.

SEPARATE NOA.

ENTIRE SYSTEM.

1. USE CHART ON THIS SHEET FOR WINDOW WALL HORIZONTAL

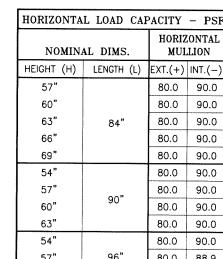
LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO

3. FOR HORIZONTAL SLIDING WINDOW LOAD CAPACITY SEE

WINDOW FASTENERS -SEE SEPARATE

EXTERIOR

(H)



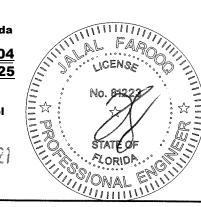
HEIGHT (H) = $\frac{\text{H1} + \text{H2}}{2}$

HORIZONTAL LOAD CAPACITY - PSF				
NOMIN.		ONTAL LION		
HEIGHT (H)	LENGTH (L)	EXT.(+)	INT.(-)	
57"		80.0	90.0	
60"	84"	80.0	90.0	
63"		80.0	90.0	
66"		80.0	90.0	
69"		80.0	90.0	
54"		80.0	90.0	
57"	90"	80.0	90.0	
60"	90	80.0	90.0	
63"		80.0	90.0	
54"		80.0	90.0	
57"	96"	80.0	88.9	
60"		80.0	85.0	

as co Buildi

Miami-Dade Product Control 2. FOR WINDOW WALL GLASS CAPACITY SEE CHART ON SHEET 2.

APR 0 2 2021



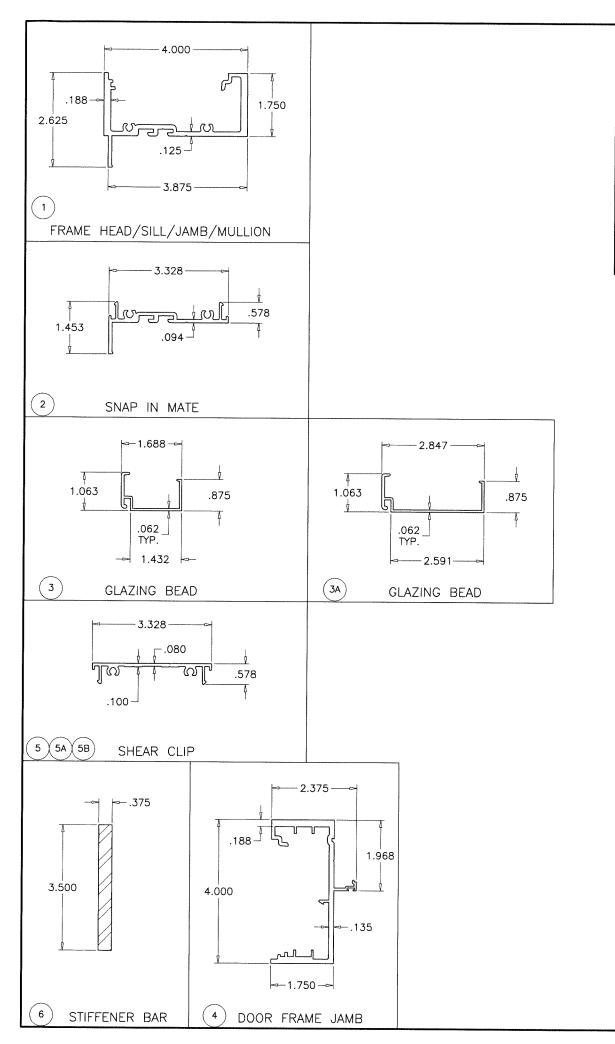
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PRODUCT as complying Building Cod	REVISED g with the Florida e
NOA-No.	21-0419.04
	. 40/00/000

Expiration Date: 10/02/2025

By: Manuel Perez



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	451	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	_
2	452	AS REQD.	SNAP-IN MATE	6063-T6	-
3	UW-404	AS REQD.	GLAZING BEAD	6063-T6	-
3A	E458	AS REQD.	GLAZING BEAD	6063-T6	_
4	454	AS REQD.	DOOR FRAME JAMB	6063-T6	
5	453	AS REQD.	SHEAR CLIP, 3-3/4" LONG AT JAMB ANCHORS	6063-T6	_
5A	453	AS REQD.	SHEAR CLIP, FULL LENGTH	6063-T6	_
5B	453	AS REQD.	SHEAR CLIP, LENGTH VARIES TO COVER ANCHOR SPACINGS	6063-T6	_
6	_	AS REQD.	STIFFENER BAR	GALV. STEEL	-
7	UW-406	AS REQD.	GLAZING GASKET	NEOPRENE	DUROMETER 55±5 SHORE A
8	#12 X 1-1/4"	4/ CORNER	FRAME ASSEMBLY SCREWS		PH SMS
9		2/ LITE	SETTING BLOCKS AT 1/4 POINTS (3/16" X 1/2" X 2" LONG)	EPDM	DUROMETER 80±5 SHORE A
10		AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE

SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH SCHNEE-MOREHEAD SM5504 ACRYL-R SEAM SEALER.

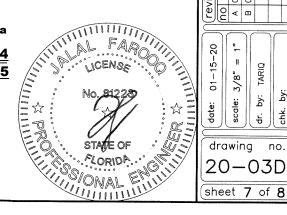
PRODUCT REVISED as complying with the Florida Building Code NOA-No.

21-0419.04 Expiration Date: 10/02/2025

By: Manuel Peres

Miami-Dade Product Control

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	CEDIEC ASO ALIM WINDOW WALL COSTEM / MIL	OW WALL SISIEM (L.M.I.)	SYSTEMS 11 C		ב ב ב	0	FAX (305) 885-5902	
	SEDIES ASO ALLIM MINIO	SCINICS 430 ALUM WINDA	ECO WINDOW SYSTEMS IIC	1010 M W 0010 1100 M W 00100	0304 N.W. 00111 311 MFNI FY FI 33166	מירטרו, ור. טטוטט	TEL. (305) 885-5299	
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	The state of the s	date by description	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET				
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sheet 7 of 8

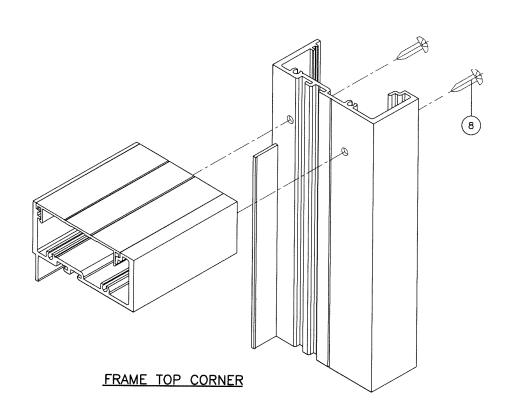
 AL-FAROOQ CORPORATION

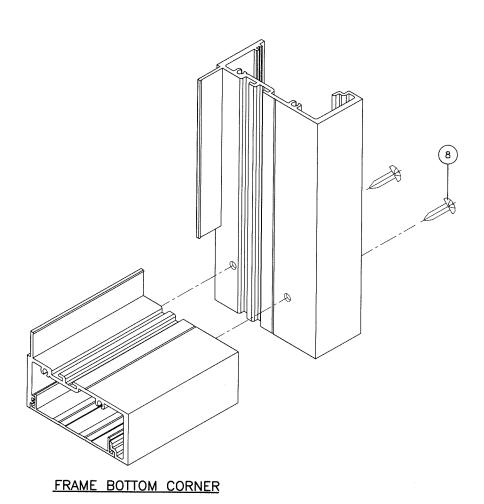
 ENGINEERS & PRODUCT DEVELOPMENT

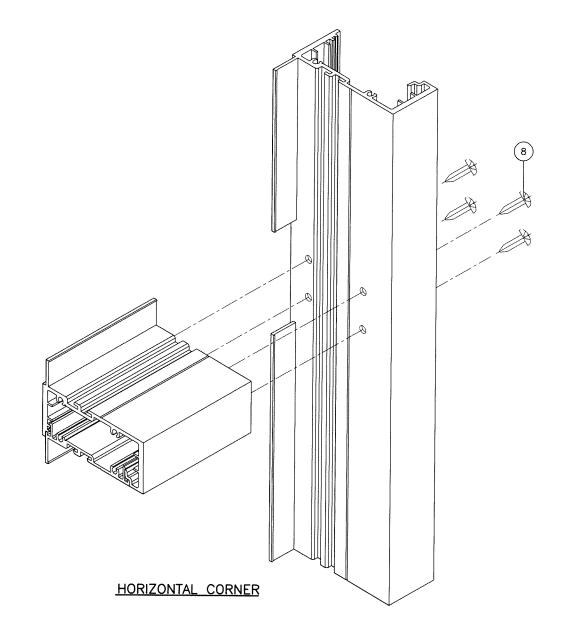
 9360 SUNSET DRIVE, SUITE 220

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

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





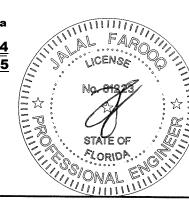


PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0419.04

NOA-No. <u>21-0419.04</u>
Expiration Date: <u>10/02/2025</u>
By: Manuel Pres

Miami-Dade Product Control

APR 0 2 2021



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	SERIES 450 ALUM WINDOW WALL SYSTEM (L.M.I.)
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20-03D sheet 8 of 8

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