

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

APPROVAL DOCUMENT: Drawing No. **21-26D**, titled "Series 450 Alum. Window Wall System (S.M.I.)" sheets 1, 2, 3, 4, 5, 6, 6.1, 7 and 8 of 8, dated 03/22/21, 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: 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, E-2, E-3 and E-4, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

NOA No. 21-0419.05 Expiration Date: October 02, 2025 Approval Date: August 05, 2021

Page 1

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 21-26D, titled "Series 450 Alum. Window Wall System (S.M.I.)" sheets 1, 2, 3, 4, 5, 6, 5.1, 7 and 8 of 8, 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. 21-0419.05

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 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. 21-0419.05

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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.
- 11. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) 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.

(For reference only - Submitted under NOA No. 20-0128.02)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 7th **Edition (2020)**, dated 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)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 21-0419.05

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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.

F. STATEMENTS

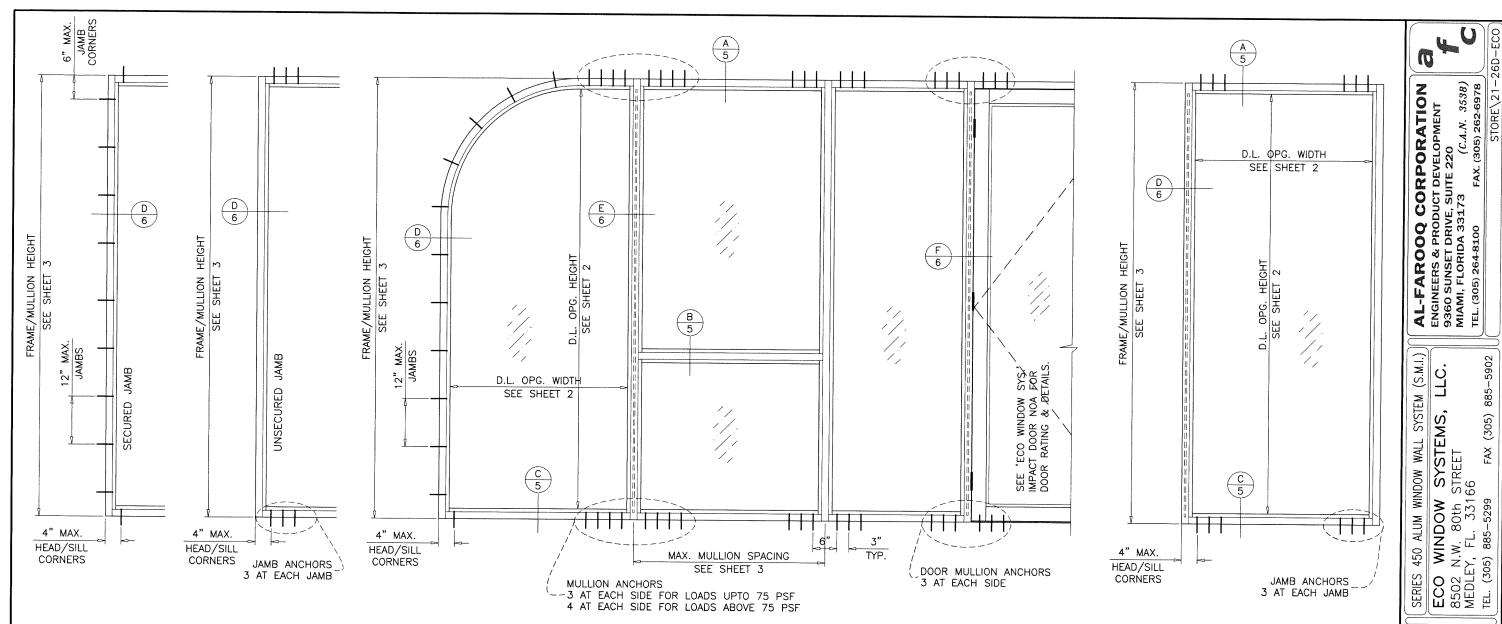
- 1. Statement letter of conformance, complying with **FBC** 7th **Edition (2020)** and of no financial interest, dated March 04, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- Proposal No. 17-1071 issued by the Product Control Section, dated October 20, 2017, signed by Manuel Perez, P.E.
 (Submitted under NOA No. 20-0128.02)

G. OTHERS

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

(For reference only – Used as original NOA base of this spin-off)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 21-0419.05



SERIES 450 ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPROVED SMALL 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 ZONÉ (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.

- STEP 1 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.

- STEP 4 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.
- STEP 6 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 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.

SMALL MISSILE IMPACT

PRODUCT APPROVED as complying with the Florida Building Code NOA-No. 21-0419.05 Approval Date: 07/30/2021 By: Manuel Pere

Miami-Dade Product Control

APR 0 2 2021



revisions:	date by description			
revisions	no date			
2-21	7	1,-0,	~	

LCC

SYSTEMS,

WINDOW SYSTE N.W. 80th STREET EY, FL. 33166 05) 885–5299 FAX

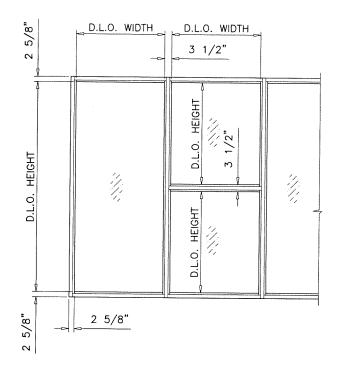
ECO WINDC 8502 N.W. 8C MEDLEY, FL. .

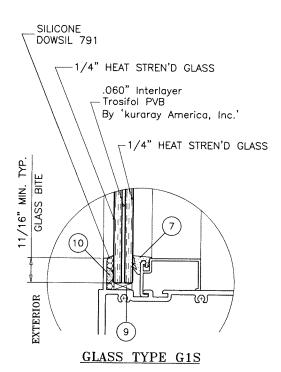
drawing

21 - 26D

sheet 1 of 8

GLASS LOAD CAPACITY - PSF							
NOMINA	L DIMS.	GLASS TYPE 'G1S'					
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	1			
30-3/4"		80.0	90.0	1			
33-3/4"		80.0	90.0	1			
36-3/4"		80.0	90.0	1			
39-3/4"		80.0	90.0	1			
42-3/4"	78-3/4"	80.0	90.0	1			
45-3/4"		80.0	90.0				
48-3/4"		80.0	90.0				
51-3/4"		80.0	90.0	1			
54-3/4"		80.0	90.0	1			
57-3/4"		76.2	85.7	4			
60-3/4"		72.7	81.8	١			
30-3/4"		80.0	90.0] :			
33-3/4"		80.0	90.0]			
36-3/4"		80.0	90.0	Ė			
39-3/4"	84-3/4"	80.0	90.0	Ī			
42-3/4"	04-5/4	80.0	90.0	Ī.			
45-3/4"		80.0	90.0	0			
48-3/4"		80.0	90.0				
51-3/4"		80.0	90.0	OF IT			
54-3/4"		80.0	90.0	1			
57-3/4"		76.2	85.7				
30-3/4"		80.0	90.0	DETWEEN			
33-3/4"		80.0	90.0	Ē			
36-3/4"		80.0	90.0	α			
39-3/4"	90-3/4"	80.0	90.0	VOITA			
42-3/4"		80.0	90.0	1			
45-3/4"		80.0	90.0	0			
48-3/4"		80.0	90.0	NTERPO			
51-3/4"		80.0	90.0	E			
54-3/4"		80.0	90.0				





Approval Date: 07/30/2021

By: Manuel Perez Miami-Dade Product Control APR 0 2 2021

PRODUCT APPROVED as complying with the Florida Building Code
NOA-No. 21-0419.05

l		39Z
	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\21-26D
	SERIES 450 ALUM WINDOW WALL SYSTEM (S.M.I.) AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL. (305) 885-5299 FAX (305) 885-5902 FA	
	2-21 (revisions: no date by description	

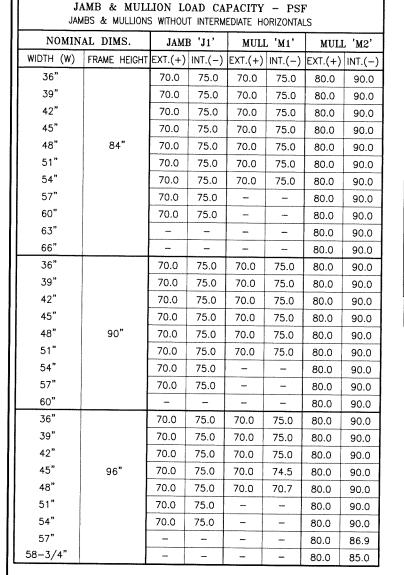
drawing no.

21-26D

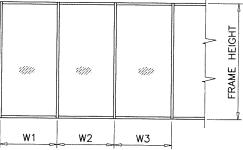
sheet 2 of 8

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

GLASS

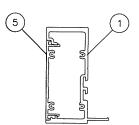






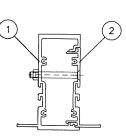
WIDTH (W) = W1AT FRAME JAMB

	WIDTH	(W) =	W2	+	w3	
ΑT		MULLION		2		_



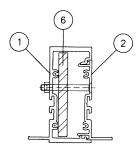
UNSECURED JAMB 'J1'

Ix	IN^4	Sx	IN^3
4	155	2	02



MULLION 'M1'

Ix IN^4 Sx IN^3 4.3758 2.1274

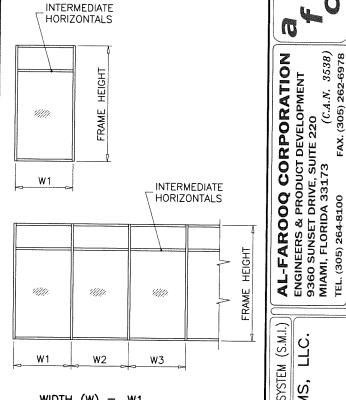


MULLION 'M2'

	Ix IN^4	Sx IN^3
ALUMINUM	4.3758	2.1274
STEEL	1.2058	.7656
TOTAL Ix ALUM + Ix STL X 2.9	7.4004	

JAMB & MULLION LOAD CAPACITY - PSF JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS JAMR 'J1' MIIII 'M1' MIIII 'M2'

NOMINAL DIMS.		JAMB 'J1'		MULL '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"		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"		70.0	75.0		-	70.0	75.0
42"	108"	70.0	75.0		-	70.0	75.0
45"	-	70.0	75.0	-		70.0	75.0
48"		70.0	72.7			70.0	72.7



WIDTH (W) = W1AT FRAME JAMB

W2 + W3WIDTH (W) =AT FRAME MULLION

PRODUCT APPROVED as complying with the Florida Building Code

NOA-No. 21-0419.05 Approval Date: 07/30/2021

Miami-Dade Product Control

APR 0 2 2021



by: 유 사 - ' 사 drawing no. 21-26D

sheet 3 of 8

(C.A.N. 3538) FAX. (305) 262-6978 STORE\21-2

(S.M.I.)

SERIES 450 ALUM WINDOW WALL SYSTEM

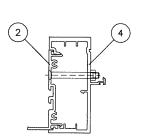
ECO WINDOW SYSTEMS, 18502 N.W. 80th STREET MEDLEY, FL. 33166 TEL. (305) 885–5299 FAX (305) 88

(305)

LC.

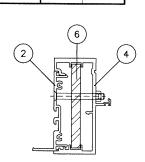
MULLION

DOOR MULLION LOAD CAPACITY							
NOMI	NAL DIMS.		HOUT INF.	1	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"		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"		- 1	-	70.0	75.0		



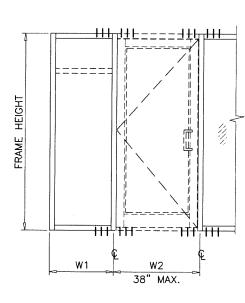


Ιx	IN^4	Sx	IN^3
3.9	9038	1.8	3241

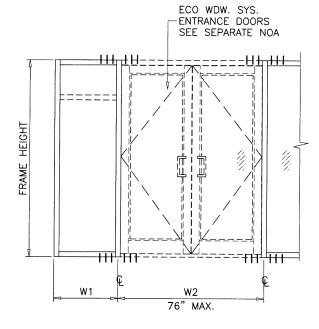


DOOR MULLION WITH REINF.

	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 APPROVED
as complying with the Florida
Building Code

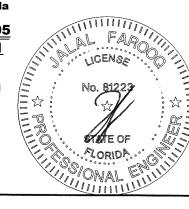
NOA-No.

21-0419.05

Approval Date: 07/30/2021

By: Manuel Pres

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

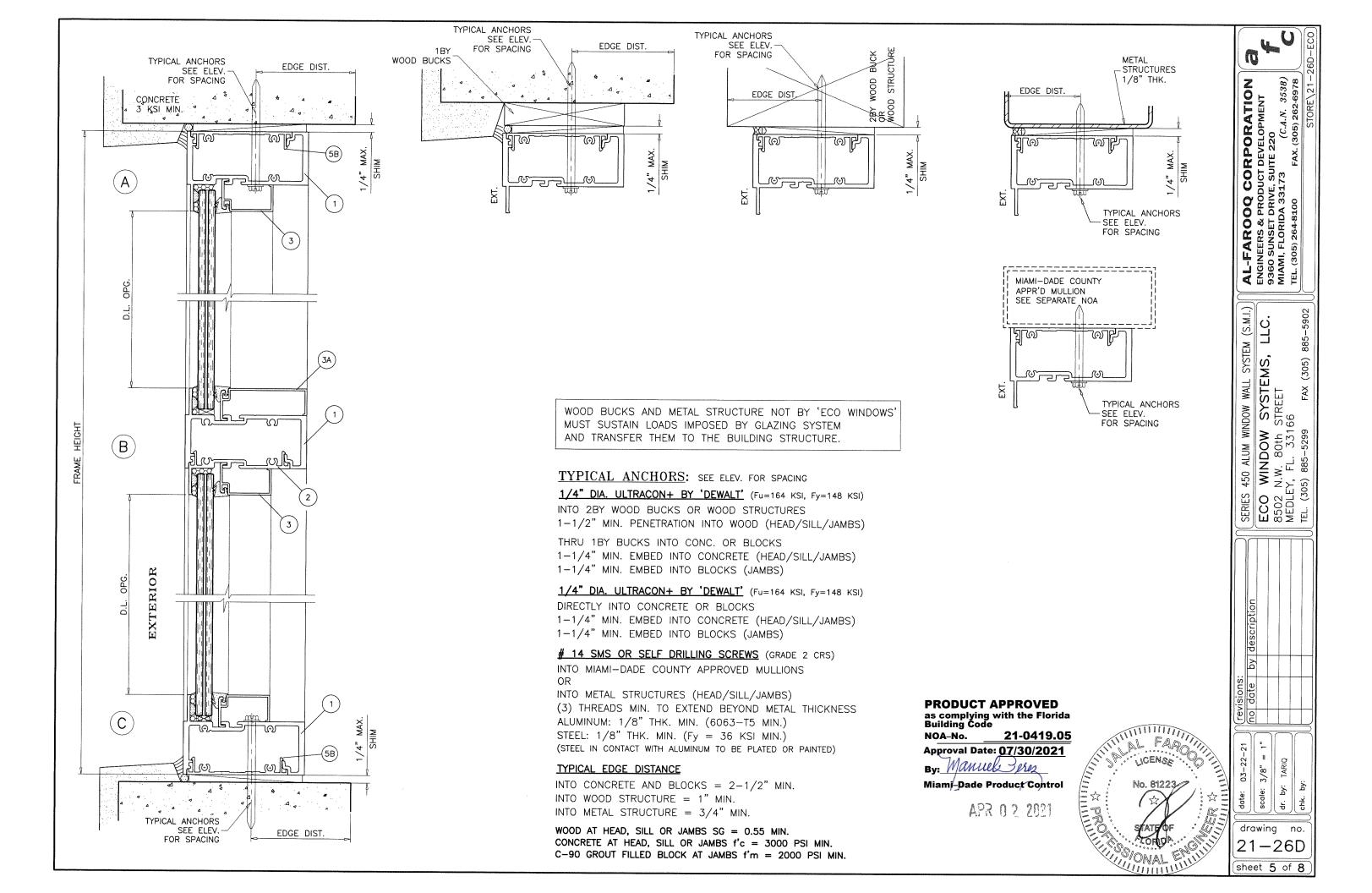
| SERIES 450 ALUM WINDOW WALL SYSTEM (S.M.I.) | ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th STREET | MEDLEY, FL. 33166 | Tel. (305) 885-5299 FAX (305) 885-5902 | Control of the control of th

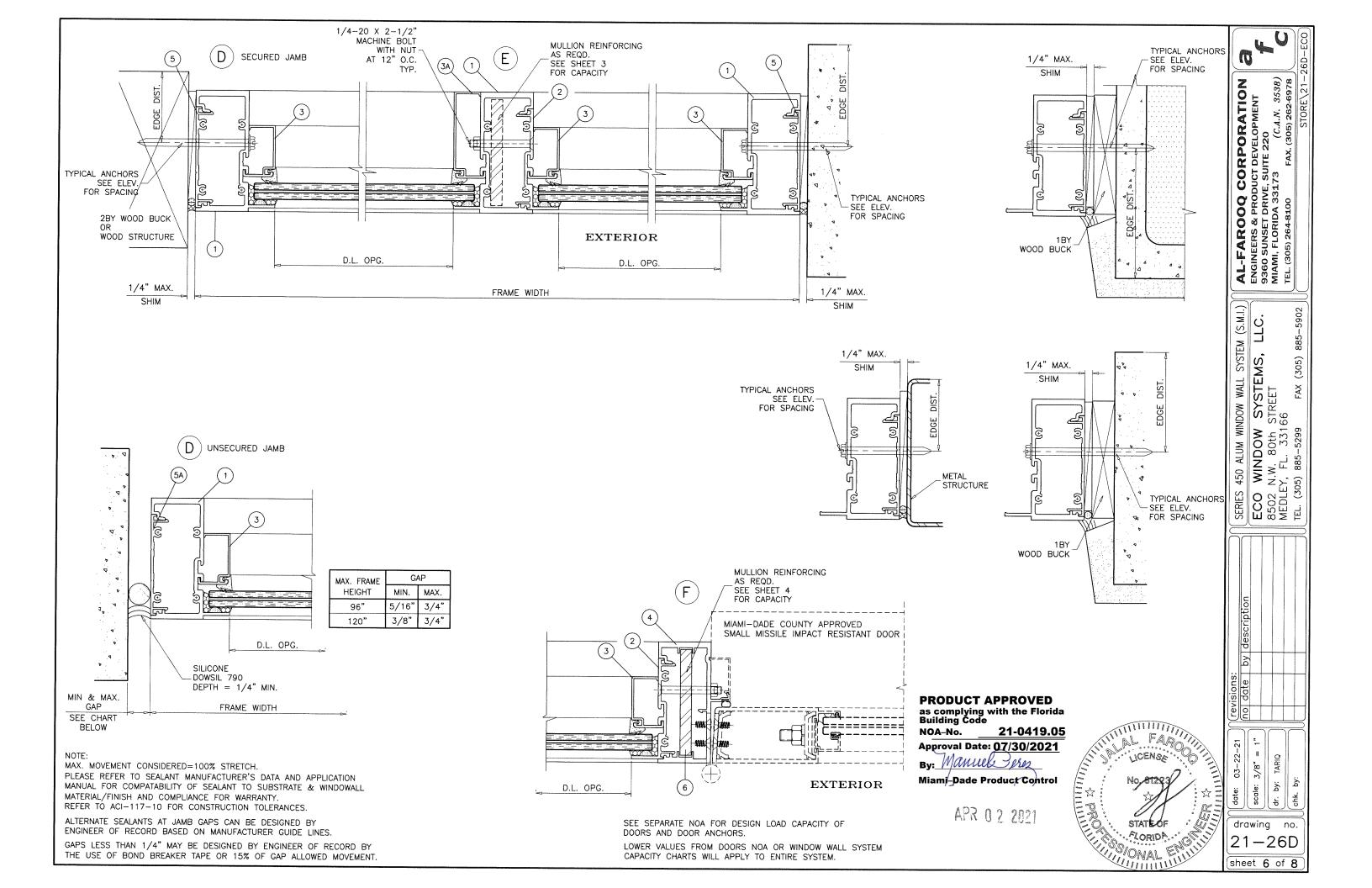
	1.5-11	(no date					
William	date: 03-22-21		scale: -		dr. by: TARIQ		cnk. by:
	dı	ra	wir	ng		nc	
	2	1		-2	26	SE)

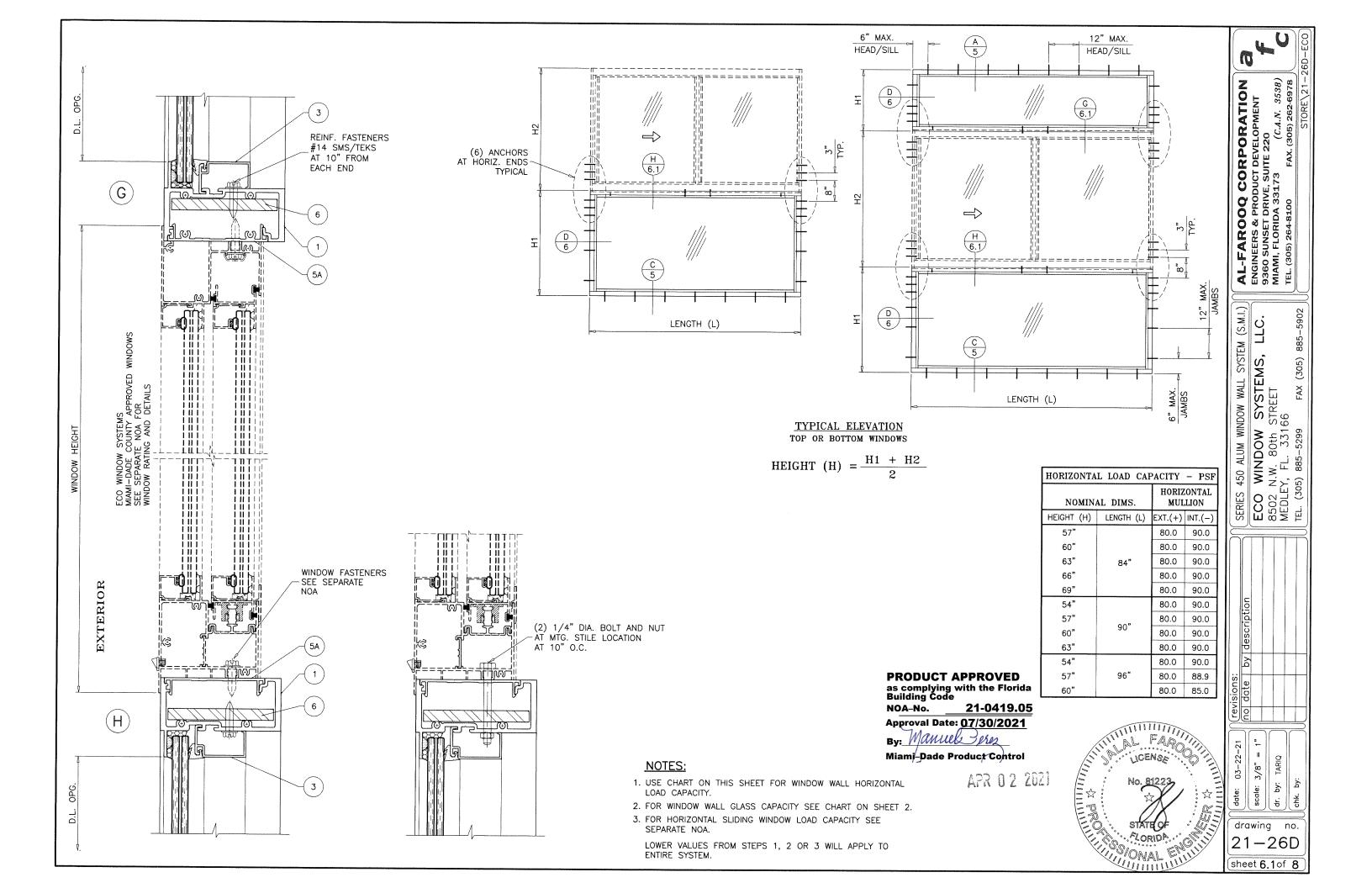
sheet 4 of 8

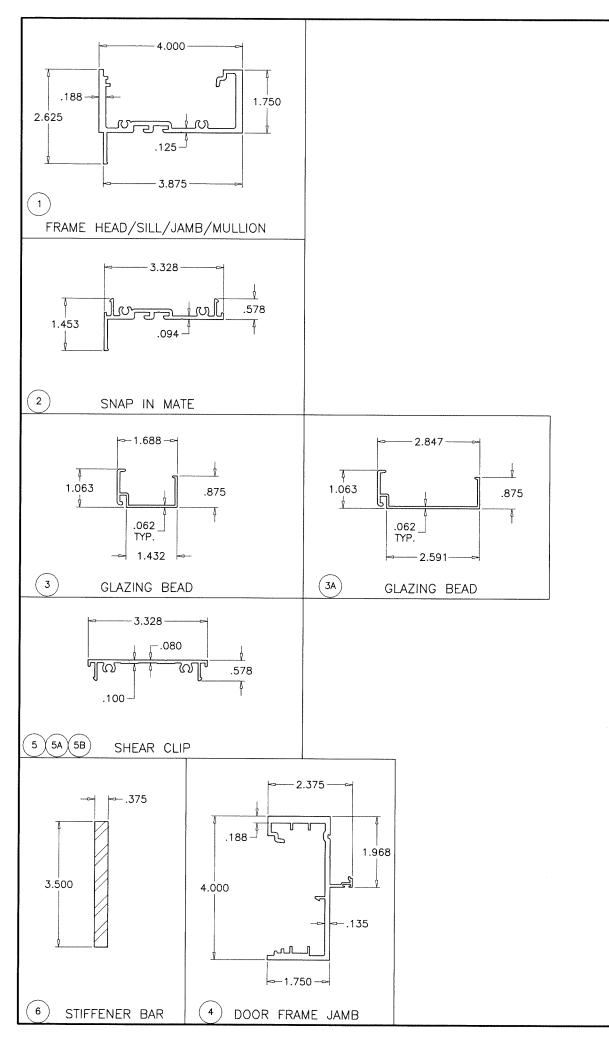
by description

DOOR MULLION









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.

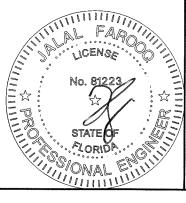
PRODUCT APPROVED
as complying with the Florida
Building Code

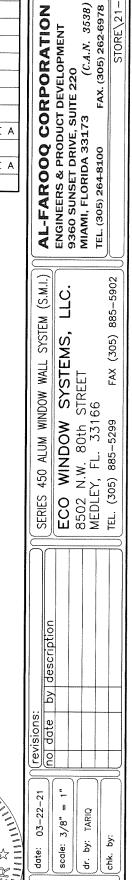
NOA-No.

21-0419.05 Approval Date: <u>07/30/2021</u>

By: Manuel Peres Miami-Dade Product Control

APR 0 2 2021

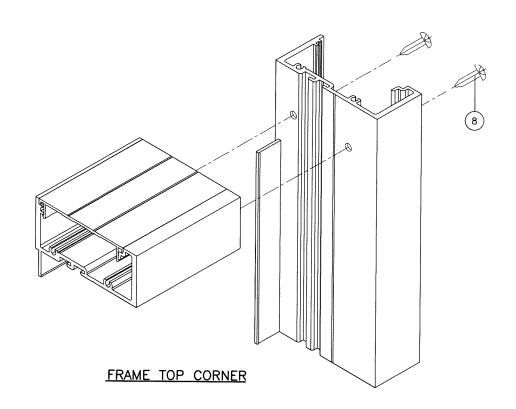


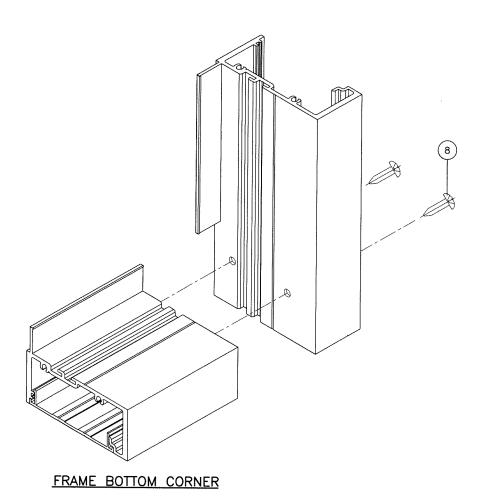


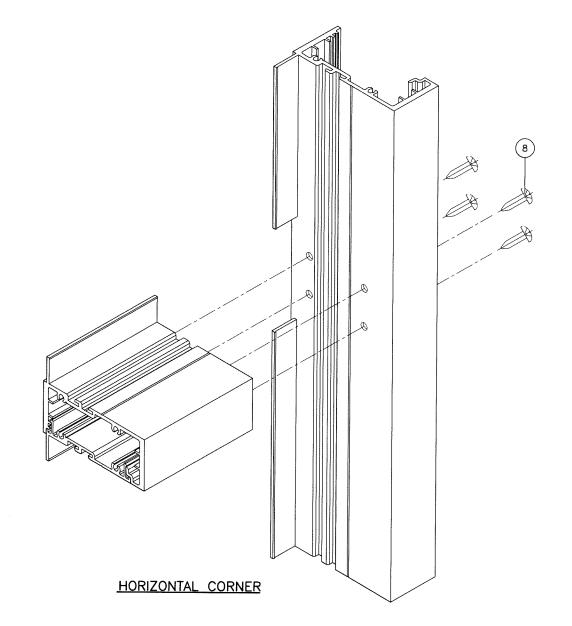
drawing no.

21 - 26D

sheet 7 of 8







PRODUCT APPROVED as complying with the Florida Building Code

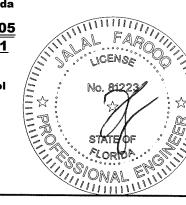
NOA-No. 21-0419.05

Approval Date: 07/30/2021

By: Manuel Pres

Miami-Dade Product Control

APR 0 2 2021



21-26D sheet 8 of 8