

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

R)

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

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

www.miamidade.gov/building

MIAMI-DADE COUNTY

NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC 3550 NW 49th Street Miami, FL 33142

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "ES-8000" Aluminum Window Wall System - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W07-60**, titled "Series 8000 Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 1.2, 2, 3, 3.1, 4, 4.1, 5, 5.1, 5.2, 6, 6.1, 6.2, 7, 7.1, 8, 9, 9.1, 10, 10.1, 11 and 12 of 12, dated 08/03/07, with revision **J** dated 03/11/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA revises NOA No. 23-0724.11 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.



6/05/24

NOA No. 24-0321.07 Expiration Date: April 03, 2028 Approval Date: June 06, 2024 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 15-0826.26)
- 2. Drawing No. **W07-60**, titled "Series 8000 Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 2, 3, 4, 4.1, 5, 5.1, 5.2, 6, 6.1, 6.2, 7, 7.1, 8, 9, 9.1, 10, 11 and 12 of 12, dated 08/03/07, with revision **I** dated 07/18/23, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

(Submitted under NOA No. 23-0724.11)

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Forced Entry Test, per FBC 2411.3.2.1 and AAMA 1304-02
 - 5) Large Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a Series ES-8000 MK-20-001, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-20-036A**, dated 12/18/20, signed and sealed by Michael D. Caldwell, P.E.

(Submitted under NOA No. 21-0517.02)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Forced Entry Test, per FBC 2411.3.2.1 and AAMA 1304-02
 - 5) Large Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a Series ES-9000 aluminum outswing door, prepared by Blackwater Testing, Inc., Test Report No.

BT-ESW-18-004, dated 05/17/18, signed and sealed by Constantin Bortes, P.E. (Submitted under NOA No. 19-1029.08)

- 3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Drop Load Test, per ANSI Z97.1 (400 foot-pound impact)

along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No.

FTL-9605, dated 08/16/17, signed and sealed by Idalmis Ortega, P.E.

(Submitted under NOA No. 18-0129.05)

Manuel Perez, P.E. Product Control Examiner

NOA No. 24-0321.07

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- B. TESTS (CONTINUED)
 - 4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No.

FTL-8372, dated 03/24/16, signed and sealed by Idalmis Ortega, P.E.

(Submitted under NOA No. 17-0227.08)

- 5. 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 CPSC 16 CFR 1201 (400 foot-pound impact) along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No.

FTL-5447, dated 12/19/07, signed and sealed by Michael R. Wenzel, P.E.

(Submitted under NOA No. 08-0204.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017), dated 08/30/17 and 09/12/18, and further updated to comply with FBC 7th Edition (2020), prepared by Al-Farooq Corporation, dated 11/16/20 and 05/07/21, signed and sealed by Jalal Farooq, P.E.

(Submitted under NOA No. 21-0517.02)

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. 24-0321.07/

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- E. MATERIAL CERTIFICATIONS
 - 1. Notice of Acceptance No. 22-1116.01 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 12/15/22, expiring on 07/04/28.
 - 2. 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), with FBC 8th Edition (2023) and of no financial interest, dated July 19, 2023, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. Submitted under NOA No. 23-0724.11)
- 2. Distributor Agreement between ES Windows-Energia Solar, S.A., Barranquilla, Columbia, S.A. and E.S. Windows, LLC, Miami, Florida, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General Manager respectively on behalf of the companies.

(Submitted under NOA No. 12-0308.36)

- Private Labeling Agreement document in conformance to Product Control guidelines dated 04/09/09 signed by Jose Nuñez.
 (Submitted under NOA No. 12-0308.36)
- 4. Laboratory compliance letter for Test Report No. FTL-5447, issued by Fenestration Testing Laboratory, Inc., dated 12/19/07, signed and sealed by Michael R. Wenzel, P.E. (Submitted under NOA No. 08-0204.06)
- 5. Testing Proposal issued by the Product Control Section, dated 10/16/14, signed by Jaime Gascon, P.E.

(Submitted under NOA No. 17-0227.08)

G. OTHERS

1. Notice of Acceptance No. **22-1227.03**, issued to E.S. Windows, LLC for their Series "ES-8000" Aluminum Window Wall System – L.M.I., approved on 01/19/23 and expiring on 04/03/28.

Manuel Perez, P.E. Product Control Examiner NOA No. 24-0321.07

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W07-60**, titled "Series 8000 Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 1.2, 2, 3, 3.1, 4, 4.1, 5, 5.1, 5.2, 6, 6.1, 6.2, 7, 7.1, 8, 9, 9.1, 10, 10.1, 11 and 12 of 12, dated 08/03/07, with revision **J** dated 03/11/24, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Large 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 ES-8000 aluminum fixed window, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-22-023**, dated 01/12/23, signed and sealed by Michael D. Caldwell, 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) 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 ES-8000T/ES-5000 aluminum fixed window mulled to a casement window, prepared by (QAI) Fenestration Testing Laboratory, Inc., Test Report No. **FTL-12112**, dated 06/19/20 with revision #1 dated 08/11/20, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC 8th Edition (2023), dated 03/15/24, 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. 24-0321.07

E.S. Windows, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. NEW EVIDENCE SUBMITTED (CONTINUED)
- E. MATERIAL CERTIFICATIONS
 - 1. Notice of Acceptance No. 23-0717.30 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 08/31/23, expiring on 07/04/28.
 - 2. Notice of Acceptance No. 24-0205.08 issued to Kuraray America, Inc. for their "Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers" dated 03/21/24, expiring on 07/08/29.

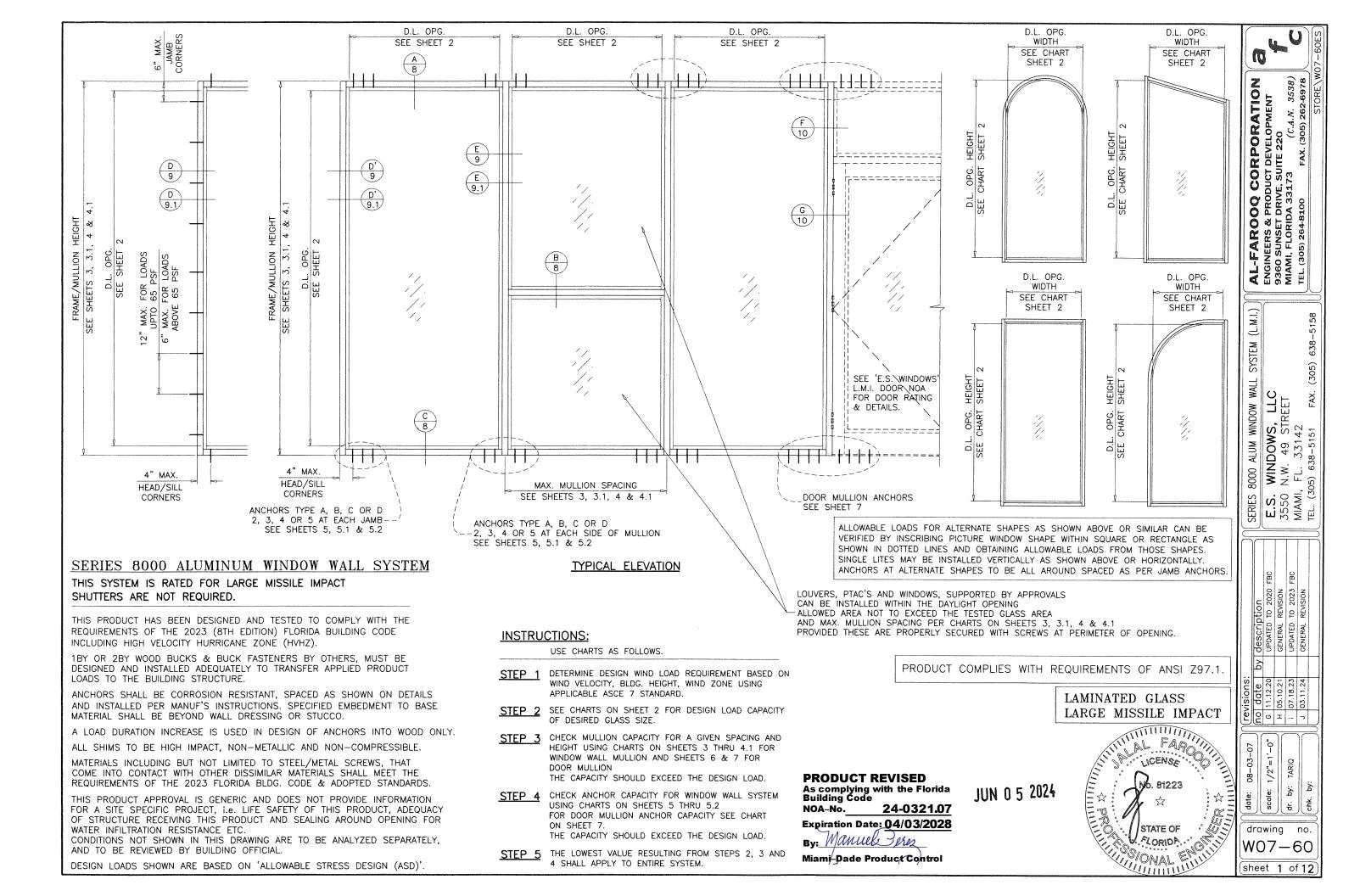
F. STATEMENTS

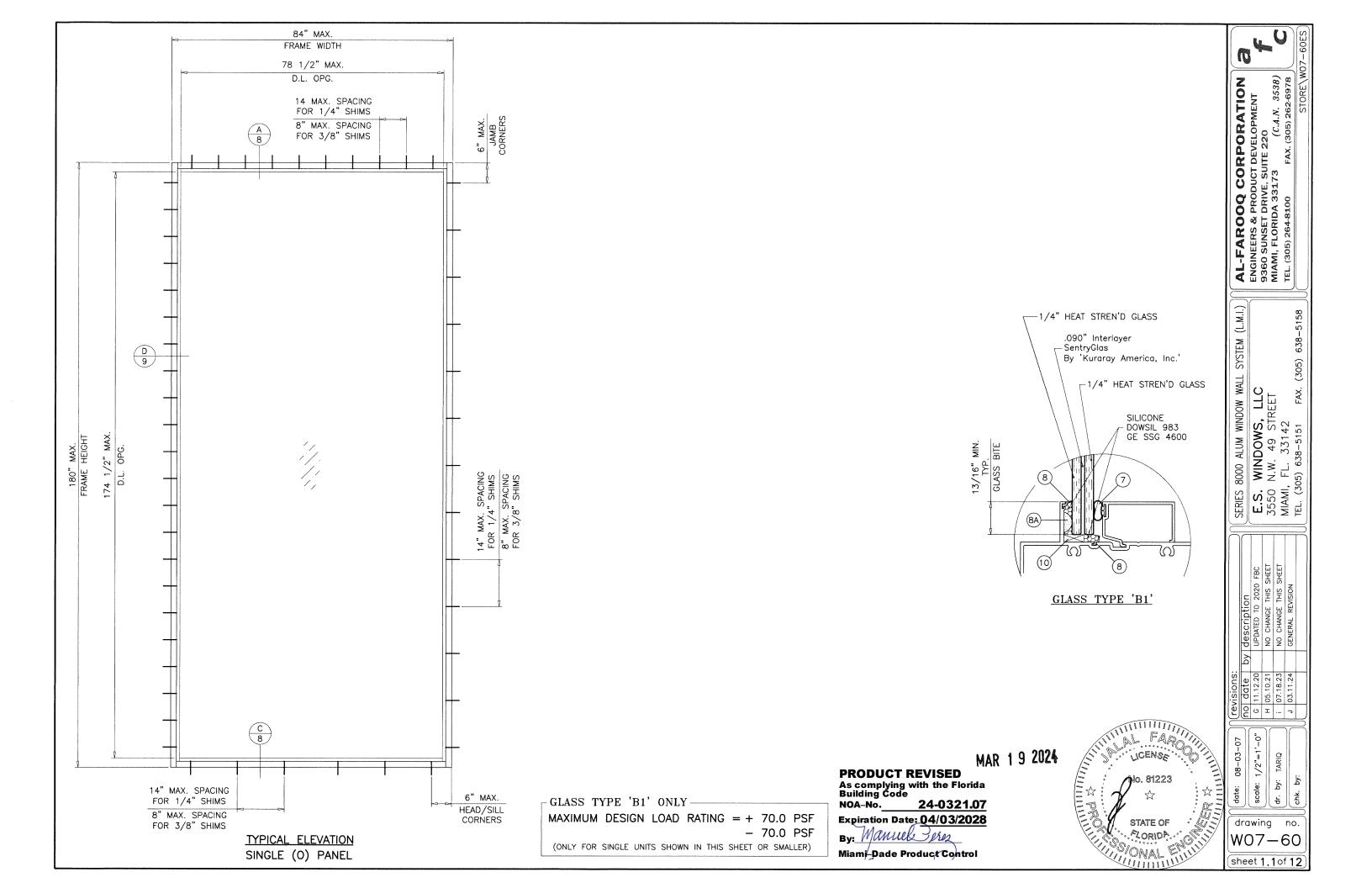
1. Statement letter of conformance, complying with FBC 8th Edition (2023) and of no financial interest, dated March 15, 2024, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

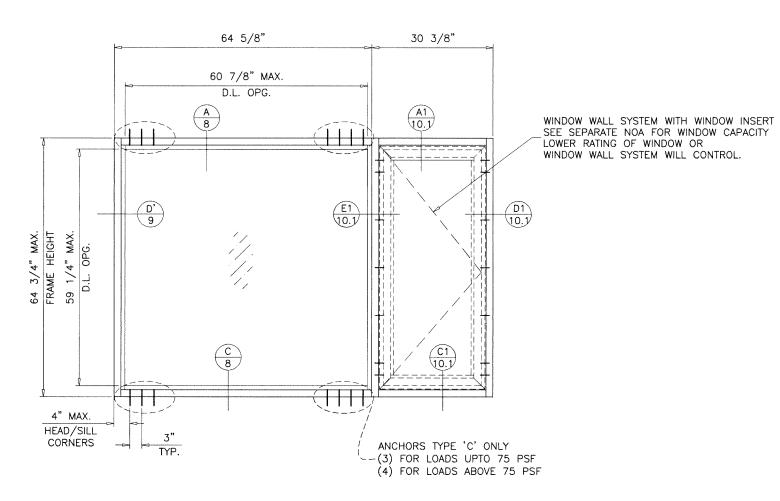
G. OTHERS

1. Notice of Acceptance No. 23-0724.11, issued to E.S. Windows, LLC for their Series "ES-8000" Aluminum Window Wall System – L.M.I., approved on 09/14/23 and expiring on 04/03/28.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 24-0321.07







GLASS TYPE 'A' -MAXIMUM DESIGN LOAD RATING = + 75.0 PSF - 75.0 PSF (ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET)

– GLASS TYPE 'B' — MAXIMUM DESIGN LOAD RATING = + 78.0 PSF

- 114.0 PSF (ONLY FOR SINGLE UNITS SHOWN IN THIS SHEET)

MAR 1 9 2024

PRODUCT REVISED
As complying with the Florida
Building Code

NOA-No. 24-0321.07

Expiration Date: 04/03/2028

By: Manuel Pres Miami-Dade Product Control

1024

NO. 81223

STATE OF

ACORDA

COMAL

CO

revisions: no date by description dr. by: chk. by:

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

| SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.) | | E.S. WINDOWS, LLC 3550 N.W. 49 STREET | MIAMI, FL. 33142 | TEL. (305) 638-5158 |

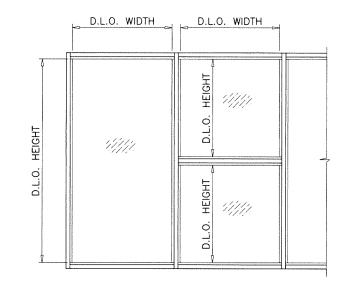
drawing

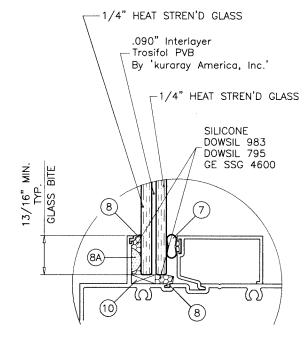
no. W07-60 sheet **1.2** of **12**

	GLASS LOAI	D CAPACITY - I	PSF
NOMIN.	AL DIMS.	GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"	84-1/2"	80.0	130.0
52"		80.0	130.0
56-1/4"		80.0	130.0
60-1/2"			63.6
66-1/2"			58.3
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"		80.0	130.0
44-1/4"	90-1/2"	80.0	130.0
48"		80.0	130.0
52"		80.0	130.0
54-1/2"		56.0	70.0
60-1/2"			63.6
66-1/2"			58.3
28"		80.0	130.0
20 32"		80.0	
1		80.0	130.0
36"	96-1/2"	80.0	130.0
40"		80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	130.0
52"		80.0	127.2
54-1/2"		56.0	70.0
60-1/2"		-	63.6
66-1/2"		-	58.3
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"	102-1/2"	80.0	130.0
44-1/4"		80.0	130.0
48"		80.0	128.9
54-1/2"		56.0	70.0
60-1/2"		_	63.6
66-1/2"		-	58.3
28"		80.0	130.0
32"		80.0	130.0
36"		80.0	130.0
40"	108-1/2"	80.0	130.0
44-1/4"		80.0	130.0
48"		62.2	70.0
54-1/2"		56.0	70.0
60-1/2"			63.6
66-1/2"		-	58.3

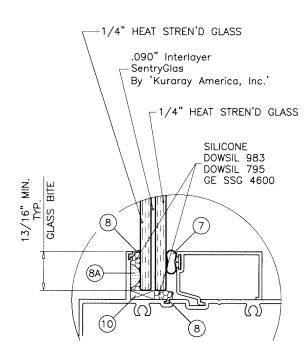
D.L.O. WIDTH D.L.O. HEIGHT EXT.(+)/INT.(-) EXT.(+)/INT.(-)	Ī		GLASS LOAI	D CAPACITY - 1	PSF
28" 80.0 130.0 32" 80.0 130.0 40" 80.0 130.0 44-1/4" 80.0 130.0 44-1/4" 80.0 130.0 54-1/2" - 90.0 54-1/2" - 90.0 66-1/2" - 63.6 66-1/2" - 63.6 66-1/2" - 58.3 44-1/4" 70.0 90.0 50" 120-1/2" - 90.0 54-1/2" - 70.0 90.0 42-1/4" 70.0 90.0 90.0 44-1/4" - 90.0 48" - 90.0 42-1/4" 70.0 90.0 42-1/4" 70.0 90.0 44-1/4" - 90.0 48-1/2" - 70.0 54-1/2" - 70.0 46" 132-1/2" - 90.0 48-1/2" - 70.0 90.0 48-1/2" - 70.0 90.0 48-1/2" - 70.0 90.0 48-1/2" - 70.0 90.0 48-1/2" - 70.0 90.0 <]	NOMIN	AL DIMS.	GLASS TYPE 'A'	GLASS TYPE 'B'
32" 80.0 130.0		D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
36"		28"		80.0	130.0
40" 80.0 130.0 44-1/4" 80.0 130.0 48-1/2" 62.2 90.0 51-1/2" - 90.0 54-1/2" - 63.6 66-1/2" - 63.6 66-1/2" - 58.3 44-1/4" 70.0 90.0 48" 62.2 90.0 50" 120-1/2" - 90.0 54-1/2" - 90.0 90.0 42-1/4" 70.0 90.0 48-1/2" - 90.0 90.0 48-1/2" - 70.0 90.0 42-1/4" 70.0 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 48-1/2" - 70.0 90.0 48-1/2" - 70.0 90.0 42-1/4" - 90.0 90.0 48-1/2" - 70.0 90.0 42-1/4" - 90.0 90.0 42-1/4" <td< th=""><th></th><th>32"</th><th></th><th>80.0</th><th>130.0</th></td<>		32"		80.0	130.0
44-1/4" 48-1/2" 114-1/2" 80.0 130.0 51-1/2" 54-1/2" - 90.0 60-1/2" - 63.6 66-1/2" - 63.6 66-1/2" - 58.3 44-1/4" 48" 70.0 90.0 50" 120-1/2" - 90.0 54-1/2" 60-1/2" - 70.0 90.0 42-1/4" 48-1/2" 70.0 90.0 42-1/4" 48-1/2" - 90.0 42-1/4" 44-1/4" 46" 70.0 90.0 42-1/4" 44-1/2" - 90.0 48-1/2" 54-1/2" - 70.0 40" 42-1/4" 44-1/4" 48-1/2" - 70.0 90.0 42-1/4" 44-1/4" 48-1/2" - 70.0 90.0 42-1/4" 48-1/2" - 70.0 90.0 42-1/4" 48-1/2" - 70.0 90.0 44-1/4" 48-1/2" - 70.0 90.0 44-1/4" 48-1/2" - 70.0 90.0		36"		80.0	130.0
48-1/2" 114-1/2" 62.2 90.0 51-1/2" - 90.0 54-1/2" - 70.0 60-1/2" - 63.6 66-1/2" - 58.3 44-1/4" 70.0 90.0 48" 62.2 90.0 50" 120-1/2" - 90.0 54-1/2" - 70.0 90.0 42-1/4" 70.0 90.0 48" 126-1/2" - 70.0 48" 126-1/2" - 70.0 40" 70.0 90.0 42-1/4" - 90.0 44-1/4" - 90.0 48-1/2" - 70.0 46" 132-1/2" - 90.0 48-1/2" - 70.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 </th <th></th> <th>40"</th> <th></th> <th>80.0</th> <th>130.0</th>		40"		80.0	130.0
48-1/2 51-1/2" - 90.0 54-1/2" - 70.0 60-1/2" - 63.6 66-1/2" - 58.3 44-1/4" 70.0 90.0 48" 62.2 90.0 50" 120-1/2" - 90.0 54-1/2" - 63.6 42-1/4" 70.0 90.0 44-1/4" - 90.0 48" - 90.0 48-1/2" - 70.0 54-1/2" - 70.0 40" 70.0 90.0 42-1/4" - 90.0 42-1/4" - 90.0 42-1/4" - 90.0 48-1/2" - 70.0 90.0 - 90.0 48-1/2" - 70.0 90.0 90.0 42-1/4" - 90.0 48-1/2" - 70.0 90.0 90.0 90.0 42-1/4" - 90.0 48-1/2" <t< th=""><th></th><th>44-1/4"</th><th>114 1/0"</th><th>80.0</th><th>130.0</th></t<>		44-1/4"	114 1/0"	80.0	130.0
$ \begin{vmatrix} 54-1/2" & - & 70.0 \\ 60-1/2" & - & 63.6 \\ 66-1/2" & - & 58.3 \\ \hline 44-1/4" & 70.0 & 90.0 \\ 48" & 62.2 & 90.0 \\ 50" & 120-1/2" & - & 90.0 \\ \hline 54-1/2" & - & 63.6 \\ \hline 42-1/4" & 70.0 & 90.0 \\ \hline 48" & 70.0 & 90.0 \\ \hline 44-1/4" & - & 90.0 \\ \hline 48" & - & 90.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 48'' & 132-1/2" & - & 70.0 \\ \hline 48'' & 132-1/2" & - & 90.0 \\ \hline 48-1/2" & - & 70.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 4$		48-1/2"	114-1/2	62.2	90.0
$ \begin{vmatrix} 60-1/2" & - & 63.6 \\ 66-1/2" & - & 58.3 \\ \hline 44-1/4" & 70.0 & 90.0 \\ 48" & 62.2 & 90.0 \\ \hline 50" & 120-1/2" & - & 90.0 \\ \hline 54-1/2" & - & 70.0 \\ \hline 60-1/2" & - & 63.6 \\ \hline 42-1/4" & 70.0 & 90.0 \\ \hline 48" & 70.0 & 90.0 \\ \hline 48" & 70.0 & 90.0 \\ \hline 48" & - & 90.0 \\ \hline 48" & - & 90.0 \\ \hline 48" & - & 90.0 \\ \hline 48-1/2" & - & 70.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 48-1/2" & - & 70.0 \\ \hline 46" & 132-1/2" & - & 90.0 \\ \hline 48-1/2" & - & 70.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 48-1/2" & - & 70.0 \\ \hline 40" & 70.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 44-1/4" & - & 90.0 \\ \hline 48-1/2" & - & 70.0 \\ \hline 90.0 & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 44-1/4" & - & 90.0 \\ \hline 42-1/4" & - & 90.0 \\ \hline 43-1/2" & - & 70.0 \\ \hline \end{tabular}$		51-1/2"		40000	90.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		54-1/2"		*****	70.0
44-1/4" 70.0 90.0 48" 62.2 90.0 50" 120-1/2" - 90.0 54-1/2" - 70.0 90.0 42-1/4" 70.0 90.0 48" - 90.0 48-1/2" - 90.0 48-1/2" - 70.0 40" 70.0 90.0 42-1/4" - 70.0 40" 70.0 90.0 48-1/2" - 70.0 54-1/2" - 70.0 46" 132-1/2" - 90.0 48-1/2" - 70.0 90.0 42-1/4" - 70.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 90.0 42-1/4" - 90.0 <td< th=""><th></th><th>60-1/2"</th><th></th><th></th><th>63.6</th></td<>		60-1/2"			63.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				_	58.3
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		44-1/4"		70.0	90.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		48"		62.2	90.0
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		50"	120-1/2"		90.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		54-1/2"			70.0
$ \begin{vmatrix} 44-1/4'' \\ 48'' \\ 48-1/2'' \\ 54-1/2'' \end{vmatrix} = 126-1/2'' \begin{vmatrix} - & 90.0 \\ - & 90.0 \\ - & 70.0 \\ - & 70.0 \end{vmatrix} $ $ \begin{vmatrix} 40'' \\ 42-1/4'' \\ 44-1/4'' \\ 46'' \\ 132-1/2'' \end{vmatrix} = - \begin{vmatrix} 70.0 \\ 90.0 \\ - & 90.0 \\ - & 90.0 \\ - & 90.0 \\ - & 70.0 \\ - & 70.0 \\ - & 70.0 \\ - & 70.0 \\ - & 70.0 \\ - & 90.0 \\$		60-1/2"			63.6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		42-1/4"		70.0	90.0
$ \begin{vmatrix} 48-1/2 \\ 54-1/2 \end{vmatrix} = \begin{vmatrix} 126-1/2 \\ - \\ 54-1/2 \end{vmatrix} = \begin{vmatrix} -70.0 \\ -70.0 \\ -70.0 \end{vmatrix} = \begin{vmatrix} -70.0 \\ 90.0 \\ -70.0 \\ 90.0 \end{vmatrix} = \begin{vmatrix} -70.0 \\ 90.0 \\ -70.0 \\ -70.0 \\ -70.0 \end{vmatrix} = \begin{vmatrix} -70.0 \\ 90.0 \\ -70.0 \\ -70.0 \end{vmatrix} = \begin{vmatrix} -70.0 \\ 90.0 \\ -70.0 \\ -70.0 \end{vmatrix} = \begin{vmatrix} -70.0 \\ 90.0 \\ -70.0 \\ -70.0 \end{vmatrix} = \begin{vmatrix} -70.0 \\ 90.0 \\ -70.0 \\ -70.0 \end{vmatrix} = \begin{vmatrix} -70.0 \\ 90.0 \end{vmatrix}$		44-1/4"		_	90.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			126-1/2"		90.0
40" 70.0 90.0 42-1/4" 70.0 90.0 44-1/4" - 90.0 46" 132-1/2" - 90.0 48-1/2" - 70.0 90.0 40" - 70.0 90.0 42-1/4" 70.0 90.0 44-1/4" - 90.0 48-1/2" - 70.0		48-1/2"	120 1/2		70.0
42-1/4" 70.0 90.0 44-1/4" - 90.0 46" 132-1/2" - 90.0 48-1/2" - 70.0 90.0 40" - 70.0 90.0 42-1/4" 70.0 90.0 90.0 44-1/4" 70.0 90.0 90.0 48-1/2" - 90.0		54-1/2"			70.0
$ \begin{vmatrix} 44-1/4'' \\ 46'' \\ 48-1/2'' \\ 54-1/2'' \end{vmatrix} = \begin{vmatrix} - & 90.0 \\ - & 90.0 \\ - & 70.0 \\ - & 70.0 \\ - & 70.0 \end{vmatrix} $ $ \begin{vmatrix} 40'' \\ 42-1/4'' \\ 44-1/4'' \\ 48-1/2'' \end{vmatrix} = \begin{vmatrix} 138-1/2'' \\ - & 70.0 \end{vmatrix} = \begin{vmatrix} 90.0 \\ 90.0 \\ - & 90.0 \\ - & 70.0 \end{vmatrix} $		40"		70.0	90.0
46" 132-1/2" - 90.0 48-1/2" - 70.0 54-1/2" - 70.0 40" 70.0 90.0 42-1/4" 70.0 90.0 44-1/4" - 90.0 48-1/2" - 70.0	ļ	42-1/4"		70.0	90.0
48-1/2" - 70.0 54-1/2" - 70.0 40" 70.0 90.0 42-1/4" 70.0 90.0 44-1/4" - 90.0 48-1/2" - 70.0		44-1/4"			90.0
54-1/2" - 70.0 40" 70.0 90.0 42-1/4" 70.0 90.0 44-1/4" - 90.0 48-1/2" - 70.0		46"	132-1/2"		90.0
40" 70.0 90.0 42-1/4" 70.0 90.0 44-1/4" - 90.0 48-1/2" - 70.0		48-1/2"		4000	70.0
42-1/4" 70.0 90.0 44-1/4" - 90.0 48-1/2" - 70.0					70.0
44-1/4" - 90.0 48-1/2" - 70.0		40"		70.0	90.0
48-1/2" 138-1/2		i i		70.0	90.0
48-1/2" - 70.0			1.38-1/2"		90.0
 54-1/2" - 70.0		48-1/2"	.50 1/2		70.0
		54-1/2"			70.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.





GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

PRODUCT REVISED
As complying with the Florida
Building Code NOA-No. 24-0321.07

Expiration Date: 04/03/2028

By: Manuel Pres

Miami-Dade Product Control

GLASS



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 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

 9360 SUNSET DRIVE, SUITE 220

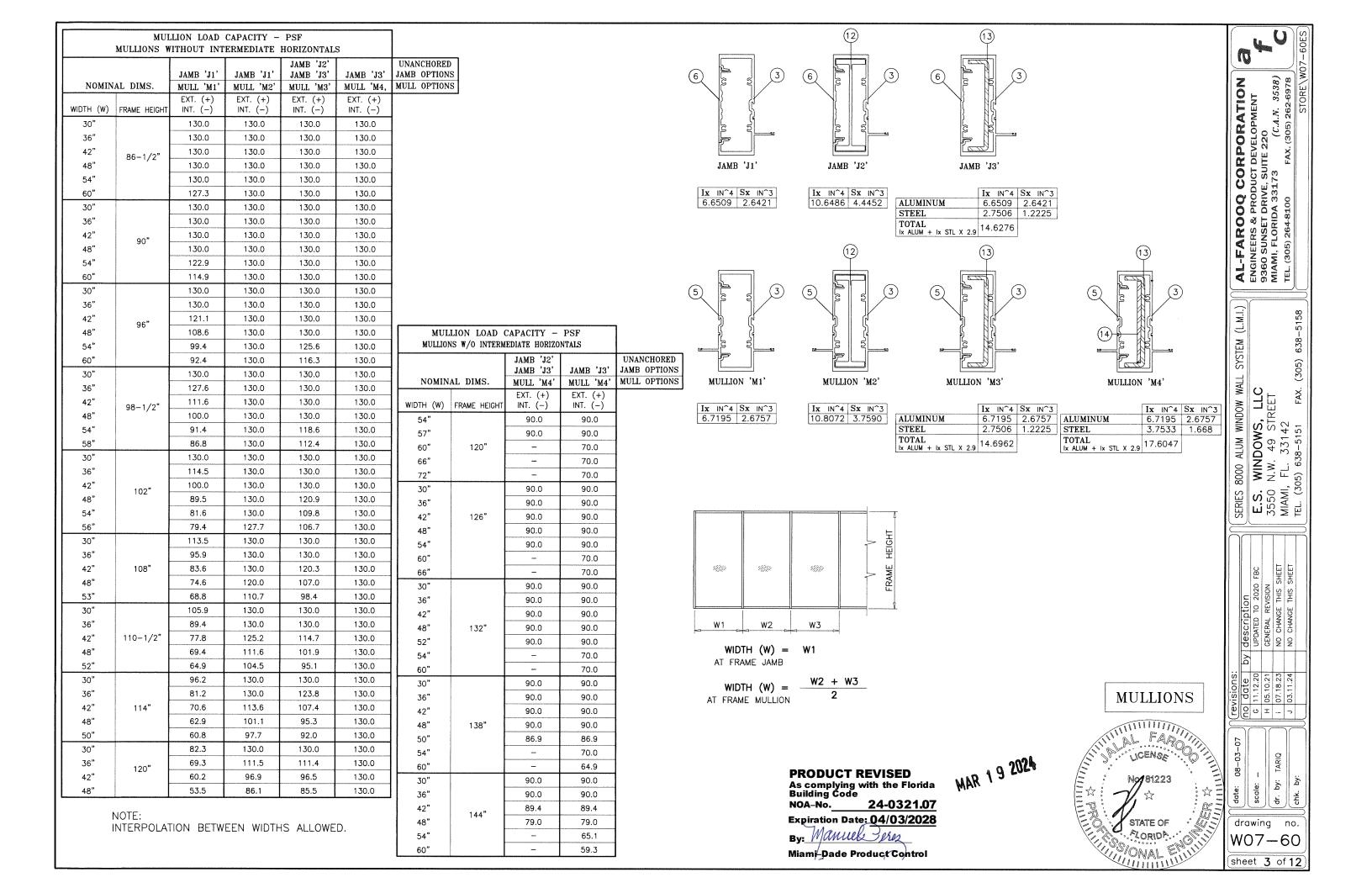
 MIAMI, FLORIDA 33173 (C.A.N. 3538)

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

| SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.) | | E.S. WINDOWS, LLC | 3550 N.W. 49 STREET | MIAMI, FL. 33142 | TEL. (305) 638-5151 FAX. (305) 638-5158 | |

sheet 2 of 12

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



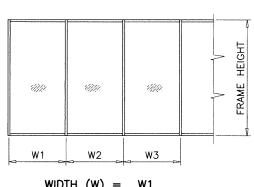
		JAMB 'J1A'	TAMP 'TIA'	
NOMIN	AL DIMS.	MULL 'M1A'	JAMB 'J1A' MULL 'M2A'	
WIDTH (W)	EDAME DEIGHT	EXT. (+)	EXT. (+)	
30"	FRAME HEIGHT	INT. (-) 60.0	INT. (-) 70.0	
36"			70.0	
42"	60.0 86-1/2" 60.0		70.0	
48"	86-1/2"	60.0	70.0	
54"		60.0	70.0	
60"		60.0	70.0	
30"		60.0	70.0	
36"		60.0	70.0	
42"		60.0	70.0	
48"	90"	60.0	70.0	
54"		60.0	70.0	
60"		60.0	70.0	
30"		60.0	70.0	
36" 42" 48" 54"		60.0	70.0	
		60.0	70.0	
	96"	60.0	70.0	
		55.6	70.0	
60"		51.5	70.0	
30" 36" 42"		60.0	70.0	
		60.0	70.0	
		60.0	70.0	
42 48"	98-1/2"	57.6	70.0	
54"		52.4	70.0	
30"		60.0	70.0 70.0 70.0	
36"		60.0		
42"		59.7	70.0 70.0 70.0	
48"	102"	53.2		
54"			70.0	
30"		60.0	70.0 70.0 70.0 70.0	
36"		60.0		
42"		52.6		
48"	108"	46.8	70.0	
54"		_	70.0	
60"		—	70.0	
30"		60.0	70.0	
36"		57.1	70.0	
42"	110 1 /5"	49.7	70.0 70.0 70.0	
48"	110-1/2"	44.3		
54"			70.0	
60"		_	70.0	
30"		60.0		
36"		51.8	70.0	
42"		45.1	70.0 70.0 70.0	
48"	114"	40.1		
54"		_		
30"		52.5	70.0 70.0	
36"		44.3	70.0	
42"	4.00"	38.5	70.0	
48"	120"	34.2	66.7	
54"		_	60.4	
57"	1		57.8	

MU	LLION	LOAD	CAPACITY	_	PSF
MULLIONS	WITHO	UT IN	TERMEDIATE	Н	ORIZONTALS

UNANCHORED JAMB OPTIONS

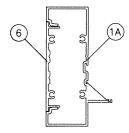
MULL OPTIONS

	medalion.	TELEGRIC WITHOUT INTE		TOTAL	
A' A'	NOMIN	AL DIMS.	JAMB 'J1A' MULL 'M1A'	JAMB 'J1A' MULL 'M2A'	
	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
	30"		_	70.0	
	36"		_	70.0	
	42"	126"		64.6	
	48"	120		57.3	
	54"		-	51.8	
	30"		-	70.0	
٦	36"		- Walter	64.5	
	42"	170"		55.9	
	48"	132"	_	49.6	
	52"		-	46.2	
	30"		_	67.1	
	36"		_	56.3	
	42"	138"	_	48.8	
	48"	150	_	43.2	
	50"			41.6	
	30"			58.9	
	36"	144"		49.5	
	42"	177		42.8	
	48"		_	37.8	
- 1					



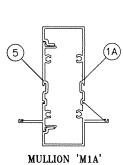
WIDTH (W) =AT FRAME JAMB

W2 + W3WIDTH (W) =AT FRAME MULLION

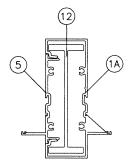


JAMB 'J1A'

Ix IN^4 Sx IN^3 4.1316 1.6902



Ix IN⁴ Sx IN³ 4.2902 1.7239



MULLION 'M2A'

Ix IN^4 Sx IN^3 8.3779 3.527

MULLIONS

MAR 1 9 2024

Miami-Dade Product Control

no no
08-03-07
date:
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PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 24-0321.07

Expiration Date: 04/03/2028

By: Manuel Pres

wing no. 07-60 sheet 3.1 of 12

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

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

| SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.) | E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 | TEL. (305) 638-5151 FAX. (305) 638-5158 |

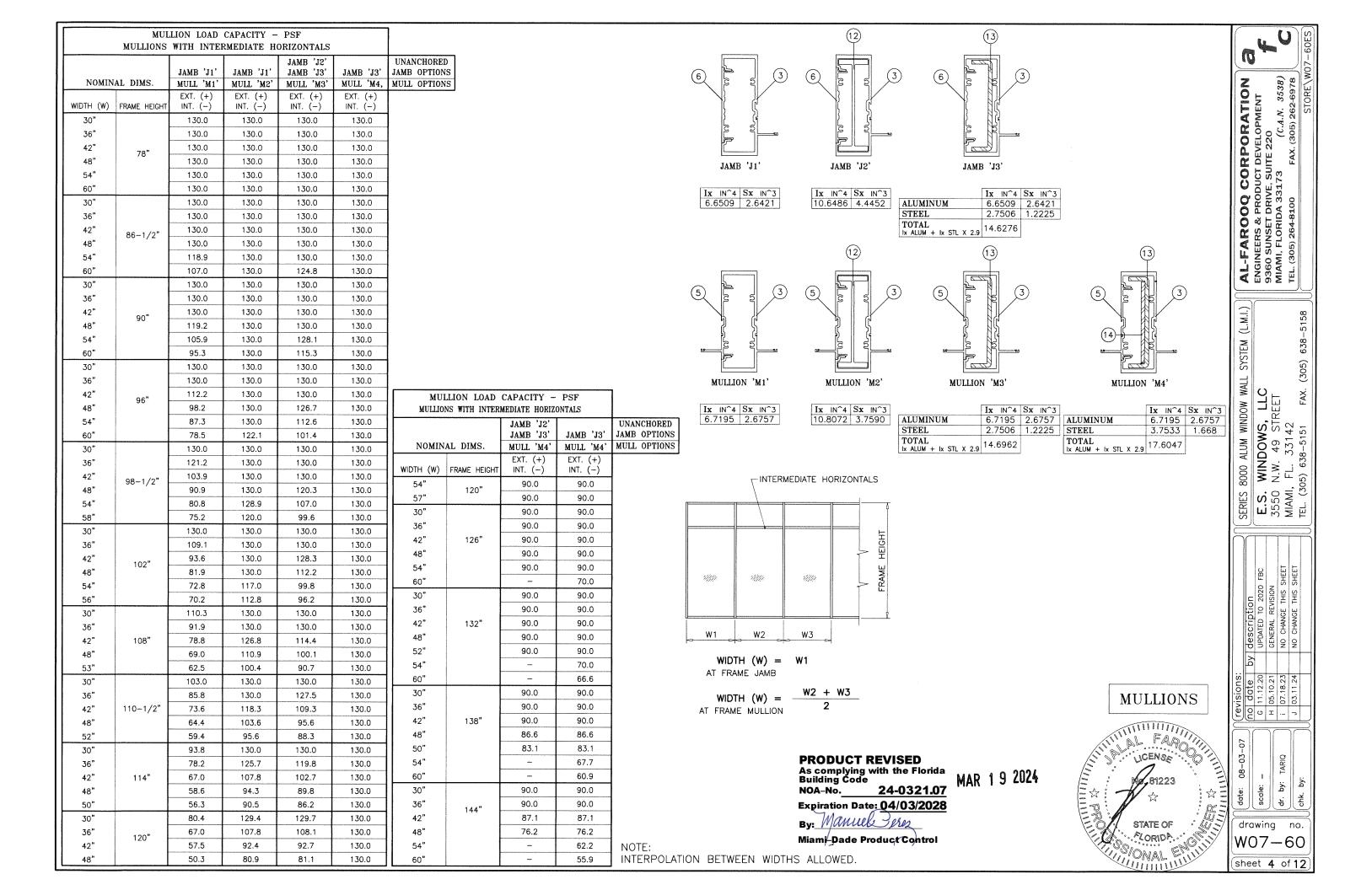
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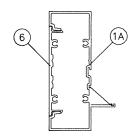
NOTE: INTERPOLATION BETWEEN WIDTHS ALLOWED.



		CAPACITY - PSF RMEDIATE HORIZONTALS			
NOMIN	AL DIMS.	JAMB 'J1A' MULL 'M1A'	JAMB 'J1A MULL 'M2A		
WIDTH (W)	CDAME DESCRIP	EXT. (+) INT. (–)	EXT. (+) INT. (-)		
WIDTH (W) 30" 36"	FRAME HEIGHT	60.0	70.0		
		60.0	70.0		
42"		60.0	70.0		
42 48"	86-1/2"	60.0	70.0		
54"		60.0	70.0		
60"		55.9	70.0		
30"		60.0	70.0		
36"		60.0	70.0		
42"		60.0	70.0		
48"	90"	60.0	70.0		
54"		57.1	70.0		
60"		51.4	70.0		
30"		60.0	70.0		
36"		60.0	70.0		
42"		60.0	70.0		
48"	96"	56.1	70.0		
54"		49.9	70.0		
60"		44.9	70.0		
30"		60.0	70.0		
36"	98-1/2"	60.0	70.0		
42"		60.0	70.0		
48"		53.2	70.0		
54"		47.2	70.0		
		60.0	70.0		
30" 36"		60.0	70.0		
42"	102"	56.4	70.0		
48"		49.4	70.0		
54"		43.9	70.0		
30"		60.0	70.0		
36"		58.4	70.0		
42"		50.0	70.0		
48"	108"	43.8	70.0		
54"			70.0		
60"		-	70.0		
30"		60.0	70.0		
36"		54.8	70.0		
42"	110 1/0"	47.0	70.0		
48"	110-1/2"	41.1	70.0		
54"			70.0		
60"			70.0		
30"		59.9	70.0		
36"		49.9	70.0		
42"	114"	42.8	70.0		
48"	114"	37.4	70.0		
54"		****	70.0		
30"		51.4	70.0		
36"		42.8	70.0		
42"	120"	36.7	70.0		
48"	120	32.1	66.7		
54"			60.4		
57"		_	57.8		

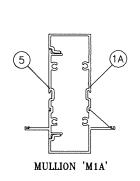
I	MUI	LION	LOAD	CAPACITY		PSF
ı	MULLIONS	WITH	INTE	RMEDIATE	HO	RIZONTALS

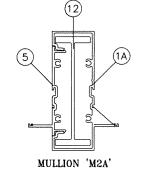
_					l
,	NOMIN	AL DIMS.	JAMB 'J1A' MULL 'M1A'	JAMB 'J1A' MULL 'M2A'	UNANCHORED JAMB OPTIONS MULL OPTIONS
	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
	30"			70.0	
1	36"		***	70.0	
1	42"	126"	_	64.6	
	48"	120		57.3	
	54"			51.8	
	30"		-	70.0	
	36"		_	64.5	
	42"	130"	-	55.9	
	48"	152	-	49.6	
	52"			46.2	
	30"	126" -	_	67.1	
╛	36"			56.3	
	42"	1.38"	-	48.8	
	48"	100	****	43.2	
	50"		-	41.6	
	30"			58.9	
	36"	144"	-	49.5	
╛	42"	132"	_	42.8	
١	48"			37.8	



JAMB 'J1A'

Ix IN^4 Sx IN^3 4.1316 1.6902

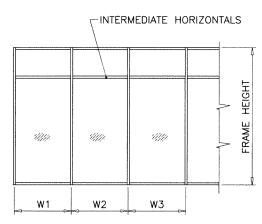




Ix IN^4 Sx IN^3 4.2902 1.7239

 Ix
 IN^4
 Sx
 IN^3

 8.3779
 3.527



WIDTH (W) = W1 AT FRAME JAMB

W2 + W3WIDTH (W) =AT FRAME MULLION

> MAR 1 9 2024 PRODUCT REVISED
> As complying with the Florida
> Building Code

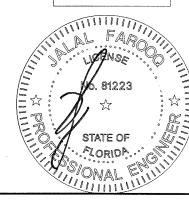
24-0321.07 NOA-No.

Miami-Dade Product Control

Expiration Date: 04/03/2028

By: Manuel Perez

MULLIONS



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W07-60

sheet **4.1**of **12**

 AL-FAROOQ CORPORATION

 ENGINEERS & PRODUCT DEVELOPMENT

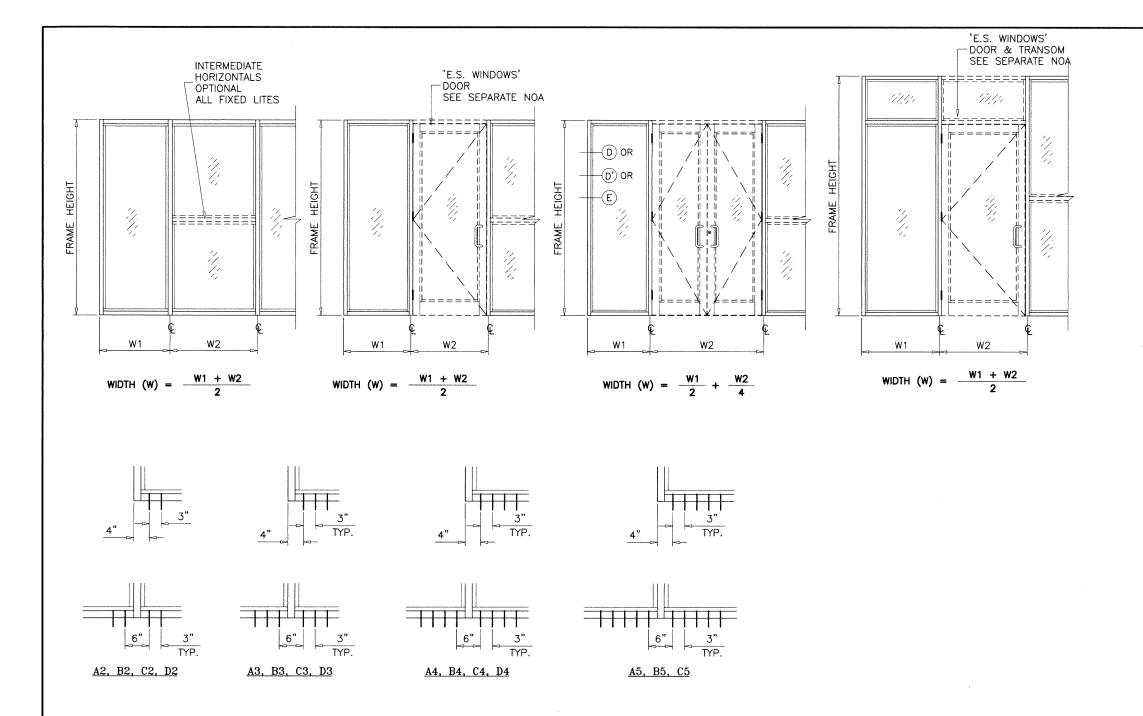
 9360 SUNSET DRIVE, SUITE 220

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

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

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

NOTE: INTERPOLATION BETWEEN WIDTHS ALLOWED.



ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION D2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION

A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION

B3=(3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION C3=(3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION D3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION

A4 = (4) anchors type 'A' at each side of Jamb and Mullion B4 = (4) anchors type 'B' at each side of Jamb and Mullion C4 = (4) anchors type 'C' at each side of Jamb and Mullion D4 = (4) anchors type 'D' at each side of Jamb and Mullion

A5=(5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION B5=(5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION C5=(5) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

SEE SHEETS 5, 5.1, 5.2 & 7 FOR ANCHOR CAPACITY CHART. SEE SHEET 8 FOR ANCHOR DESCRIPTION.

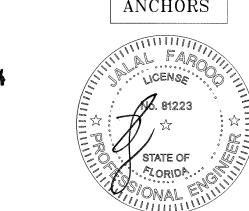
ANCHORS

MAR 1 9 2024

PRODUCT REVISED As complying with the Florida Building Code 24-0321.07 NOA-No.

Expiration Date: 04/03/2028

By: Manuel Peres Miami-Dade Product Control



		by descript	UPDATED T	NO CHANGE	NO CHANGE	NO CHANGE	
		á					
	revisions:	no date	G 11.12.20	H 05.10.21	07.18.23	03.11.24	
l	<u>(ē</u>	uo	ပ	I		٦	
	date: 08-03-07		scale: -		dr. by: TARIQ		cnk. by:
	d	ra	wir	ng		no	$\vec{\cdot}$
	W	C	7	7 –	- 6	30)

(sheet **5** of **12**

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

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

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

											ANCI	IOR LO	OAD CA .(+) &		Y - P	SF									***************************************			
				Al	NCHORS	TYPE	'A'					Al	NCHORS	TYPE	'В'					A]	NCHORS	TYPE	'С'			1/4"	MAX.	SHIM
NOMIN.	AL DIMS.	3,	/8" SH	IM SPAC	CE	1	/2" SH	IM SPAC	CE	3,	/8" SH	M SPAC	CE	1,	/2" SH	IM SPAC	CE	3,	/8" SH	IM SPA	CE	1,	/2" SH	M SPAC	E	ANCH	ORS TY	PE 'D'
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	A5	A2	A3	A4	A5	B2	В3	B4	B5	B2	В3	B4	B5	C2	С3	C4	C5	C2	СЗ	C4	C5	D2	D3	D4
30"		59.1	88.6	118.2	130.0	46.1	69.2	92.2	115.3	67.9	101.9	130.0	130.0	53.3	79.9	106.5	130.0	115.9	130.0	130.0	130.0	91.4	130.0	130.0	130.0	130.0	130.0	130.0
36"		49.2	73.9	98.5	123.1	38.4	57.7	76.9	96.1	56.6	84.9	113.2	130.0	44.4	66.6	88.8	111.0	96.6	130.0	130.0	130.0	76.2	114.3	130.0	130.0	130.0	130.0	130.0
42"		42.2	63.3	84.4	105.5	32.9	49.4	65.9	82.4	48.5	72.8	97.0	121.3	38.1	57.1	76.1	95.1	82.8	123.7	130.0	130.0	65.3	98.0	130.0	130.0	124.0	130.0	130.0
48"	86-1/2"	36.9	55.4	73.9	92.3	28.8	43.2	57.7	72.1	42.5	63.7	84.9	106.1	33.3	49.9	66.6	83.2	72.4	108.2	130.0	130.0	57.2	85.7	114.3	130.0	108.5	130.0	130.0
54"	00 1,72	32.8	49.2	65.7	82.1	25.6	38.4	51.2	64.1	37.7	56.6	75.5	94.3	29.6	44.4	59.2	74.0	64.4	96.2	128.7	130.0	50.8	76.2	101.6	127.0	96.4	130.0	130.0
60"		29.5	44.3	59.1	73.9	23.1	34.6	46.1	57.7	34.0	50.9	67.9	84.9	26.6	40.0	53.3	66.6	57.9	86.6	115.9	130.0	45.7	68.6	91.4	114.3	86.8	130.0	130.0
66"		26.9	40.3	53.7	67.1	21.0	31.4	41.9	52.4	30.9	46.4	61.8	77.3	24.3	36.4	48.5	60.6	52.7	79.0	105.4	130.0	41.5	62.2	83.0	103.7	78.9	118.3	130.0
72"		24.6	36.9	49.2	61.5	_	28.8	38.4	48.0	28.3	42.5	56.7	70.8	22.2	33.4	44.5	55.6	48.3	72.4	96.6	120.7	38.0	57.0	76.1	95.1	72.3	108.5	130.0
30"		56.8	85.2	113.6	130.0	44.3	66.5	88.7	110.8	65.3	97.9	130.0	130.0	51.2	76.8	102.4	128.0	111.4	130.0	130.0	130.0	87.9	130.0	130.0	130.0	130.0	130.0	130.0
36"		47.3	71.0	94.6	118.3	36.9	55.4	73.9	92.4	54.4	81.6	108.8	130.0	42.7	64.0	85.3	106.7	92.8	130.0	130.0	130.0	73.2	109.9	130.0	130.0	130.0	130.0	130.0
42"		40.6	60.8	81.1	101.4	31.7	47.5	63.3	79.2	46.6	69.9	93.3	116.6	36.6	54.9	73.1	91.4	79.5	118.9	130.0	130.0	62.8	94.2	125.6	130.0	119.2	130.0	130.0
48"	90"	35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0
54"	90	31.5	47.3	63.1	78.9	24.6	36.9	49.3	61.6	36.3	54.4	72.5	90.7	28.4	42.7	56.9	71.1	61.9	92.4	123.7	130.0	48.8	73.2	97.7	122.1	92.7	130.0	130.0
60"		28.4	42.6	56.8	71.0	22.2	33.2	44.3	55.4	32.6	49.0	65.3	81.6	25.6	38.4	51.2	64.0	55.7	83.2	111.4	130.0	43.9	65.9	87.9	109.9	83.4	125.1	130.0
66"		25.8	38.7	51.6	64.5	20.2	30.2	40.3	50.4	29.7	44.6	59.4	74.3	23.3	35.0	46.6	58.3	50.6	76.0	101.3	126.6	39.9	59.8	79.7	99.7	75.8	113.7	130.0
72"		23.7	35.5	47.3	59.2	_	27.7	36.9	46.2	27.2	40.9	54.5	68.1	21.4	32.1	42.7	53.4	46.4	69.6	92.8	116.0	36.6	54.8	73.1	91.4	69.5	104.3	130.0
30"		53.2	79.9	106.5	130.0	41.6	62.3	83.1	103.9	61.2	91.8	122.4	130.0	48.0	72.0	96.0	120.0	104.4	130.0	130.0	130.0	82.4	123.6	130.0	130.0	130.0	130.0	130.0
36"		44.4	66.6	88.7	110.9	34.6	52.0	69.3	86.6	51.0	76.5	102.0	127.5	40.0	60.0	80.0	100.0	87.0	130.0	130.0	130.0	68.7	103.0	130.0	130.0	130.0	130.0	130.0
42"		38.0	57.0	76.1	95.1	29.7	44.5	59.4	74.2	43.7	65.6	87.4	109.3	34.3	51.4	68.6	85.7	74.6	111.4	130.0	130.0	58.9	88.3	117.7	130.0	111.7	130.0	130.0
48"	0.6"	33.3	49.9	66.6	83.2	26.0	39.0	52.0	64.9	38.3	57.4	76.5	95.6	30.0	45.0	60.0	75.0	65.3	97.5	130.0	130.0	51.5	77.3	103.0	128.8	97.8	130.0	130.0
54"	96"	29.6	44.4	59.2	73.9	23.1	34.6	46.2	57.7	34.0	51.0	68.0	85.0	26.7	40.0	53.3	66.7	58.0	86.7	116.0	130.0	45.8	68.7	91.6	114.4	86.9	130.0	130.0
60"		26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.6	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0
66"		24.2	36.3	48.4	60.5	_	28.3	37.8	47.2	27.9	41.8	55.7	69.6	21.9	32.8	43.7	54.6	47.5	71.2	94.9	118.7	37.4	56.1	74.8	93.5	71.1	106.6	130.0
72"		22.2	33.3	44.4	55.5	_	26.0	34.6	43.3	25.5	38.3	51.1	63.8	20.0	30.1	40.1	50.1	43.5	65.3	87.0	108.8	34.3	51.4	68.5	85.7	65.2	97.8	130.0
30"		51.9	77.8	103.8	129.7	40.5	60.8	81.0	101.3	59.6	89.5	119.3	130.0	46.8	70.2	93.6	117.0	101.8	130.0	130.0	130.0	80.3	120.5	130.0	130.0	130.0	130.0	130.0
36"		43.2	64.9	86.5	108.1	33.8	50.6	67.5	84.4	49.7	74.6	99.4	124.3	39.0	58.5	78.0	97.5	84.8	126.7	130.0	130.0	66.9	100.4	130.0	130.0	127.0	130.0	130.0
42"		37.1	55.6	74.1	92.7	28.9	43.4	57.9	72.3	42.6	63.9	85.2	106.5	33.4	50.1	66.8	83.5	72.7	108.6	130.0	130.0	57.4	86.0	114.7	130.0	108.9	130.0	130.0
48"	09 1/0"	32.4	48.6	64.9	81.1	25.3	38.0	50.6	63.3	37.3	55.9	74.6	93.2	29.2	43.9	58.5	73.1	63.6	95.0	127.2	130.0	50.2	75.3	100.4	125.5	95.3	130.0	130.0
54"	98-1/2"	28.8	43.2	57.7	72.1	22.5	33.8	45.0	56.3	33.1	49.7	66.3	82.8	26.0	39.0	52.0	65.0	56.5	84.5	113.1	130.0	44.6	66.9	89.2	111.5	84.7	127.0	130.0
60"		25.9	38.9	51.9	64.9	20.3	30.4	40.5	50.6	29.8	44.7	59.6	74.6	23.4	35.1	46.8	58.5	50.9	76.0	101.8	127.2	40.2	60.2	80.3	100.4	76.2	114.3	130.0
66"		23.6	35.4	47.2	59.0		27.6	36.8	46.0	27.1	40.7	54.3	67.9	21.3	31.9	42.6	53.2	46.3	69.4	92.5	115.7	36.4	54.6	72.9	91.1	69.3	103.9	130.0
72"		21.6	32.4	43.2	54.1	-	25.3	33.8	42.2	24.9	37.3	49.8	62.2	-	29.3	39.0	48.8	42.4	63.6	84.8	106.0	33.4	50.1	66.8	83.5	63.5	95.3	127.0
30"		50.1	75.2	100.2	125.3	39.1	58.7	78.2	97.8	57.6	86.4	115.2	130.0	45.2	67.8	90.4	112.9	98.3	130.0	130.0	130.0	77.6	116.3	130.0	130.0	130.0	130.0	130.0
36"		41.8	62.6	83.5	104.4	32.6	48.9	65.2	81.5	48.0	72.0	96.0	120.0	37.6	56.5	75.3	94.1	81.9	122.4	130.0	130.0	64.6	96.9	129.3	130.0	122.7	130.0	130.0
42"		35.8	53.7	71.6	89.5	27.9	41.9	55.9	69.8	41.1	61.7	82.3	102.9	32.3	48.4	64.5	80.7	70.2	104.9	130.0	130.0	55.4	83.1	110.8	130.0	105.1	130.0	130.0
48"	100"	31.3	47.0	62.6	78.3	24.4	36.7	48.9	61.1	36.0	54.0	72.0	90.0	28.2	42.4	56.5	70.6	61.4	91.8	122.8	130.0	48.5	72.7	96.9	121.2	92.0	130.0	130.0
54"	102"	27.8	41.8	55.7	69.6	21.7	32.6	43.5	54.3	32.0	48.0	64.0	80.0	25.1	37.6	50.2	62.7	54.6	81.6	109.2	130.0	43.1	64.6	86.2	107.7	81.8	122.7	130.0
60"		25.1	37.6	50.1	62.6	_	29.3	39.1	48.9	28.8	43.2	57.6	72.0	22.6	33.9	45.2	56.5	49.1	73.4	98.3	122.8	38.8	58.2	77.6	96.9	73.6	110.4	130.0
66"		22.8	34.2	45.6	56.9		26.7	35.6	44.4	26.2	39.3	52.4	65.5	20.6	30.9	41.1	51.4	44.7	67.0	89.4	111.7	35.2	52.8	70.4	88.0	66.9	100.4	130.0
72"		20.9	31.3	41.8	52.2	_	24.4	32.6	40.7	24.0	36.0	48.1	60.1	_	28.3	37.7	47.1	41.0	61.4	81.9	102.4	32.3	48.4	64.5	80.6	61.3	92.0	122.7
30"		47.3	71.0	94.6	118.3	36.9	55.4	73.9	92.4	54.4	81.6	108.8	130.0	42.7	64.0	85.3	106.7	92.8	130.0	130.0	130.0	73.2		130.0	130.0	130.0	130.0	+
36"		39.4	59.2	78.9	98.6	30.8	46.2	61.6	77.0	45.3	68.0	90.7	113.3	35.6	53.3	71.1	88.9	77.3	115.6	 	130.0	61.0	91.6	122.1		115.9		130.0
42"		33.8	50.7	67.6	84.5	26.4	39.6	52.8	66.0	38.9	58.3	77.7	97.1	30.5	45.7	61.0	76.2	66.3	99.0	+	130.0	52.3	78.5	104.6	130.0	99.3	130.0	130.0
48"	40-11	29.6	44.4	59.2	73.9	23.1	34.6	46.2	57.7	34.0	51.0	68.0	85.0	26.7	40.0	53.3	66.7	58.0	86.7	116.0	 	45.8	68.7	91.6	114.4	86.9	130.0	130.0
54"	108"	26.3	39.4	52.6	65.7	20.5	30.8	41.0	51.3	30.2	45.3	60.4	75.6	23.7	35.6	47.4	59.3	51.6	77.0	103.1	128.9	40.7	61.0	81.4	101.7	77.2	115.9	-
60"		23.7	35.5	47.3	59.2	_	27.7	36.9	46.2	27.2	40.8	54.4	68.0	21.3	32.0	42.7	53.3	46.4	69.3	92.8	116.0	36.6	54.9	73.2	91.6	69.5	104.3	130.0
66"		21.5	32.3	43.0	53.8	_	25.2	33.6	42.0	24.8	37.1	49.5	61.9		29.1	38.9	48.6	42.2	63.3	84.4	105.5	33.2	49.8	66.5	83.1	63.2	94.8	126.4
72"		_	29.6	39.4	49.3	_	23.1	30.8	38.5	22.7	34.0	45.4	56.7		26.7	35.6	44.5	38.7	58.0	77.4	96.7	30.5	45.7	60.9	76.1	57.9	86.9	115.9
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																								CHARI	CONT	IIVUES	NEXT S	SHEET

SEE SHEETS 5 AND 8 FOR ANCHOR DESCRIPTION.

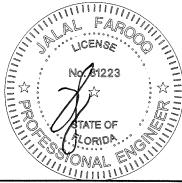
PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 24-0321.07

Expiration Date: 04/03/2028

By: Manuel Peres

Miami-Dade Product Control

ANCHORS



drawing no.

W07-60 sheet 5.1 of 12

 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 8000 ALUM WINDOW WALL SYSTEM (L.M.I.) | E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 | TEL. (305) 638-5158 |

MAR 1 9 2024

											ANCI	HOR LO	OAD CA .(+) &		Y - P	SF					***************************************							
				Al	NCHORS	TYPE	'A'					Aì	NCHORS	TYPE	'В'				·····	AN	CHORS	TYPE	'С'			1/4"	MAX.	SHIM
NOMIN	AL DIMS.	3	/8" SH	IM SPAC	CE	1,	/2" SH	M SPAC	CE	3,	/8" SH	IM SPAC	CE	1,	/2" SH	IM SPAC	CE	3,	/8" SH	IM SPAC	CE	1,	/2" SHI	M SPAC	CE	ANCH	ORS TY	PE 'D'
WIDTH (W)	FRAME HEIGHT	A2	АЗ	A4	A5	A2	A3	A4	A5	B2	В3	B4	B5	B2	В3	B4	B5	C2	СЗ	C4	C5	C2	СЗ	C4	C5	D2	D3	D4
30"		46.3	69.4	92.5	115.6	36.1	54.2	72.2	90.3	53.2	79.8	106.3	130.0	41.7	62.6	83.4	104.3	90.7	130.0	130.0	130.0	71.6	107.4	130.0	130.0	130.0	130.0	130.0
36"		38.5	57.8	77.1	96.4	30.1	45.1	60.2	75.2	44.3	66.5	88.6	110.8	34.8	52.1	69.5	86.9	75.6	112.9	130.0	130.0	59.7	89.5	119.3	130.0	113.2	130.0	130.0
42"		33.0	49.6	66.1	82.6	25.8	38.7	51.6	64.5	38.0	57.0	76.0	94.9	29.8	44.7	59.6	74.5	64.8	96.8	129.6	130.0	51.1	76.7	102.3	127.8	97.1	130.0	130.0
48"	110-1/2"	28.9	43.4	57.8	72.3	22.6	33.8	45.1	56.4	33.2	49.8	66.5	83.1	26.1	39.1	52.1	65.2	56.7	84.7	113.4	130.0	44.7	67.1	89.5	111.9	84.9	127.4	130.0
54"	, , ,	25.7	38.5	51.4	64.2	20.1	30.1	40.1	50.1	29.5	44.3	59.1	73.8	23.2	34.8	46.3	57.9	50.4	75.3	100.8	126.0	39.8	59.7	79.5	99.4	75.5	113.2	130.0
60"		23.1	34.7	46.3	57.8		27.1	36.1	45.1	26.6	39.9	53.2	66.5	20.9	31.3	41.7	52.1	45.4	67.8	90.7	113.4	35.8	53.7	71.6	89.5	67.9	101.9	130.0
66"		21.0	31.5	42.0	52.6		24.6	32.8	41.0	24.2	36.3	48.4	60.5	-	28.5	38.0	47.5	41.2	61.9	82.5	103.1	32.5	48.7	65.0	81.2	61.8	92.6	123.5
72"			28.9	38.5	48.2	-	22.6	30.1	37.6	22.2	33.3	44.4	55.5		26.1	34.8	43.5	37.8	56.7	75.6	94.5	29.8	44.7	59.5	74.4	56.6	84.9	113.2
30"		44.8	67.3	89.7	112.1	35.0	52.5	70.0	87.5	51.5	77.3	103.1	128.8	40.4	60.6	80.8	101.1	87.9	130.0	130.0	130.0	69.4	104.1	130.0	130.0	130.0	130.0	130.0
36"		37.4	56.0	74.7	93.4	29.2	43.7	58.3	72.9	42.9	64.4	85.9	107.4	33.7	50.5	67.4	84.2	73.3	109.5	130.0	130.0	57.8	86.7	115.6	130.0	109.8	130.0	130.0
42"		32.0	48.0	64.0	80.1	25.0	37.5	50.0	62.5	36.8	55.2	73.6	92.0	28.9	43.3	57.7	72.2	62.8	93.8	125.6	130.0	49.6	74.3	99.1	123.9	94.1	130.0	130.0
48"	114"	28.0	42.0	56.0	70.1	21.9	32.8	43.7	54.7	32.2	48.3	64.4	80.5	25.3	37.9	50.5	63.2	54.9	82.1	109.9	130.0	43.4	65.1	86.7	108.4	82.3	123.5	130.0
54"		24.9	37.4	49.8	62.3	_	29.2	38.9	48.6	28.6	42.9	57.3	71.6	22.5	33.7	44.9	56.1	48.8	73.0	97.7	122.1	38.5	57.8	77.1	96.4	73.2	109.8	130.0
60"		22.4	33.6	44.8	56.0	-	26.2	35.0	43.7	25.8	38.7	51.5	64.4	20.2	30.3	40.4	50.5	44.0	65.7	87.9	109.9	34.7	52.0	69.4	86.7	65.9	98.8	130.0
66"		20.4	30.6	40.8	50.9	_	23.9	31.8	39.8	23.5	35.2	46.9	58.6	_	27.6	36.8	46.0	40.0	60.0	80.0	99.9	31.5	47.2	63.0	78.7	59.9	89.8	119.7
72"		_	28.0	37.4	46.7	-	21.9	29.2	36.5	21.5	32.3	43.0	53.8	_	25.3	33.7	42.2	36.6	55.0	73.3	91.6	28.9	43.3	57.7	72.1	54.9	82.3	109.8
30"		42.6	63.9	85.2	106.5	33.2	49.9	66.5	83.1	49.0	73.4	97.9	122.4	38.4	57.6	76.8	96.0	83.5	124.8	130.0	130.0	65.9	98.9	130.0	130.0	125.1	130.0	130.0
36"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	102.0	32.0	48.0	64.0	80.0	69.6	104.0	130.0	130.0	54.9	82.4	109.9	130.0	104.3	130.0	130.0
42"	-	30.4	45.6	60.8	76.1	23.7	35.6	47.5	59.4	35.0	52.5	69.9	87.4	27.4	41.1	54.9	68.6	59.7	89.1	119.3	130.0	47.1	70.6	94.2	117.7	89.4	130.0	130.0
48"	120"	26.6	39.9	53.2	66.6	20.8	31.2	41.6	52.0	30.6	45.9	61.2	76.5	24.0	36.0	48.0	60.0	52.2	78.0	104.4	130.0	41.2	61.8	82.4	103.0	78.2	117.3	130.0
54"		23.7	35.5	47.3	59.2	-	27.7	36.9	46.2	27.2	40.8	54.4	68.0	21.3	32.0	42.7	53.3	46.4	69.3	90.0	90.0	36.6	54.9	73.2	90.0	69.5	90.0	90.0
60"		21.3	31.9	42.6	53.2	_	24.9	33.2	41.6	24.5	36.8	49.0	61.3		28.8	38.5	48.1	41.8	62.7	83.6	90.0	32.9	49.3	65.8	82.2	62.6	90.0	90.0
66"			29.0	38.7	48.4		22.7	30.2	37.8	22.3	33.4	44.6	55.7	-	26.2	35.0	43.7	38.0	57.0	76.0	90.0	29.9	44.9	59.8	74.8	56.9	85.3	90.0
72"			26.6	35.5	44.4		20.8	27.7	34.6	20.4	30.6	40.9	51.1	_	24.0	32.1	40.1	34.8	52.2	69.6	87.0	27.4	41.1	54.8	68.5	52.1	78.2	90.0
30"		40.6	60.8	81.1	90.0	31.7	47.5	63.3	79.2	46.6	69.9	90.0	90.0	36.6	54.9	73.1	90.0	79.5	90.0	90.0	90.0	62.8	90.0	90.0	90.0	90.0	90.0	90.0
36"		33.8	50.7	67.6	84.5	26.4	39.6	52.8	66.0	38.9	58.3	77.7	90.0	30.5	45.7	61.0	76.2	66.3	90.0	90.0	90.0	52.3	78.5	90.0	90.0	90.0	90.0	90.0
42"		29.0	43.5	57.9	72.4	22.6	33.9	45.2	56.5	33.3	50.0	66.6	83.3	26.1	39.2	52.2	65.3	56.8	84.9	90.0	90.0	44.8	67.3	89.7	90.0	85.1	90.0	90.0
48"	126"	25.4	38.0	50.7	63.4		29.7	39.6	49.5	29.1	43.7	58.3	72.9	22.9	34.3	45.7	57.1	49.7	74.3	90.0	90.0	39.2	58.9	78.5	90.0	74.5	90.0	90.0
54"		22.5	33.8	45.1	56.3	_	26.4	35.2	44.0	25.9	38.9	51.8	64.8	20.3	30.5	40.6	50.8	44.2	66.0	88.4	90.0	34.9	52.3	69.8	87.2	66.2	90.0	90.0
60"		20.3	30.4	40.6	50.7		23.7	31.7	39.6	23.3	35.0	46.7	58.4		27.5	36.6	45.8	39.8	59.7	79.6	90.0	31.3	47.0	62.7	78.3	59.6	89.4	90.0
30"		38.7	58.1	77.4	90.0	30.2	45.3	60.5	75.6	44.5	66.8	89.0	90.0	34.9	52.4	69.8	87.3	75.9	90.0	90.0	90.0	59.9	89.9	90.0	90.0	90.0	90.0	90.0
36"		32.3	48.4	64.5	80.7	25.2	37.8	50.4	63.0	37.1	55.6	74.2	90.0	29.1	43.6	58.2	72.7	63.3	90.0	90.0	90.0	49.9	74.9	90.0	90.0	90.0	90.0	90.0
42"	132"	27.7	41.5	55.3	69.1	21.6	32.4	43.2	54.0	31.8	47.7	63.6	79.5	24.9	37.4	49.9	62.3	54.2	81.0	90.0	90.0	42.8	64.2	85.6	90.0	81.2	90.0	90.0
48"		24.2	36.3	48.4	60.5		28.3	37.8	47.2	27.8	41.7	55.6	69.5	21.8	32.7	43.6	54.5	47.5	70.9	90.0	90.0	37.5	56.2	74.9	90.0	71.1	90.0	90.0
54"		21.5	32.3	43.0	53.8	_	25.2	33.6	42.0	24.8	37.1	49.5	61.9	_	29.1	38.9	48.6	42.2	53.3	84.4	90.0	33.2	49.8	66.5	83.1	63.2	90.0	90.0
60"			29.0	38.7	48.4		22.7	30.2	37.8	22.3	33.4	44.6	55.7		26.2	35.0	43.7	38.0	57.0	76.0	90.0	29.9	44.9	59.8	74.8	56.9	85.3	90.0
30"		37.0	55.6	74.1	92.6	28.9	43.4	57.8	72.3	42.6	63.9	85.1	90.0	33.4	50.1	66.8	83.5	72.6	90.0	90.0	90.0	57.3	86.0	90.0	90.0	90.0	90.0	90.0
36"		30.9	46.3	61.7	77.2	24.1	36.1	48.2	60.2	35.5	53.2	71.0	88.7	27.8	41.7	55.7	69.6	60.5	90.0	90.0	90.0	47.8	71.7	90.0	90.0	90.0	90.0	90.0
42"	138"	26.5	39.7	52.9	66.1	20.7	31.0	41.3	51.6	30.4	45.6	60.8	76.0	23.9	35.8	47.7	59.6	51.9	77.5	90.0	90.0	40.9	61.4	81.9	90.0	77.7	90.0	90.0
48"		23.1	34.7	46.3	57.9	_	27.1	36.1	45.2	26.6	39.9	53.2	66.5	20.9	31.3	41.7	52.2	45.4	67.8	90.0	90.0	35.8	53.7	71.7	89.6	68.0	90.0	90.0
54"		20.6	30.9	41.2	51.4		24.1	32.1	40.2	23.7	35.5	47.4	59.2	-	27.9	37.2	46.5	40.4	60.5	80.7	90.0	31.8	47.7	63.6	79.5	60.4	90.0	90.0
60"			27.8	37.0	46.3		21.7	28.9	36.1	21.3	32.0	42.6	53.3	-	25.1	33.4	41.8	36.3	54.5	72.7	90.0	28.6	42.9	57.2	71.5	54.4	81.6	90.0
30"		35.5	53.2	71.0	88.7	27.7	41.6	55.4	69.3	40.8	61.2	81.6	90.0	32.0	48.0	64.0	80.0	69.6	90.0	90.0	90.0	54.9	82.4	90.0	90.0	90.0	90.0	90.0
36"		29.6	44.4	59.2	73.9	23.1	34.6	46.2	57.7	34.0	51.0	68.0	85.0	26.7	40.0	53.3	66.7	58.0	86.7	90.0	90.0	45.8	68.7	90.0	90.0	86.9	90.0	90.0
42"	144"	25.4	38.0	50.7	63.4	****	29.7	39.6	49.5	29.1	43.7	58.3	72.9	22.9	34.3	45.7	57.1	49.7	74.3	90.0	90.0	39.2	58.9	78.5	90.0	74.5	90.0	90.0
48"		22.2	33.3	44.4	55.5		26.0	34.6	43.3	25.5	38.3	51.0	63.8	20.0	30.0	40.0	50.0	43.5	65.0	87.0	90.0	34.3	51.5	68.7	85.8	65.2	90.0	90.0
54"			29.6	39.4	49.3		23.1	30.8	38.5	22.7	34.0	45.4	56.7		26.7	35.6	44.5	38.7	58.0	77.4	90.0	30.5	45.7	60.9	76.1	57.9	86.9	90.0
60"			26.6	35.5	44.4		20.8	27.7	34.6	20.4	30.6	40.9	51.1		24.0	32.1	40.1	34.8	52.2	69.6	87.0	27.4	41.1	54.8	68.5	52.1	78.2	90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED. SEE SHEET 5 FOR ANCHOR TYPES.

MAR 1 9 2024

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

638-5158 (305)

E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (3

SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

PRODUCT REVISED
As complying with the Florida
Building Code
NOA–No. 24-0321.07

Expiration Date: 04/03/2028

By: Manuel Pres

Miami-Dade Product Control

ANCHORS

No. 81223

STATE OF

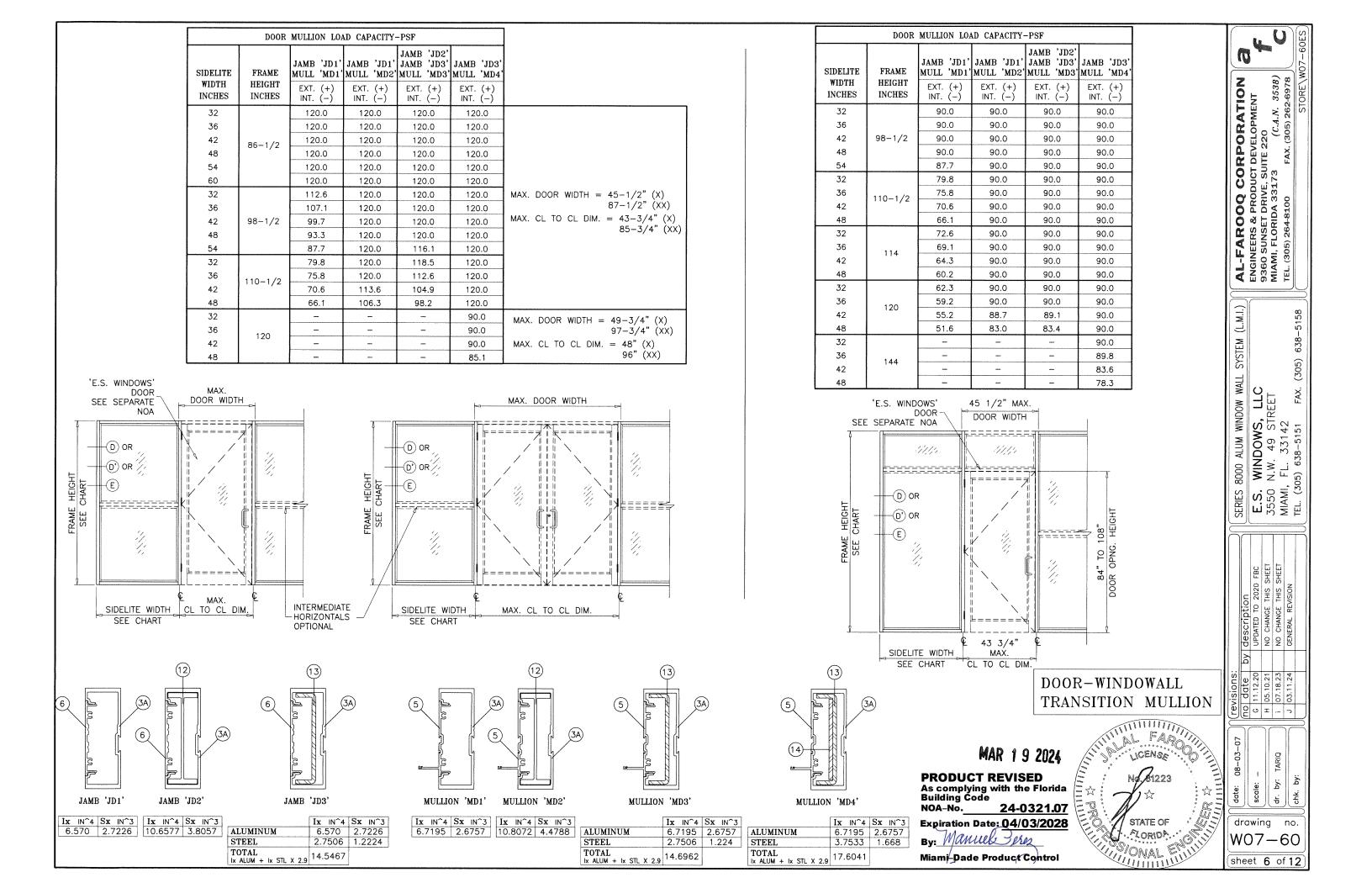
ACORDA

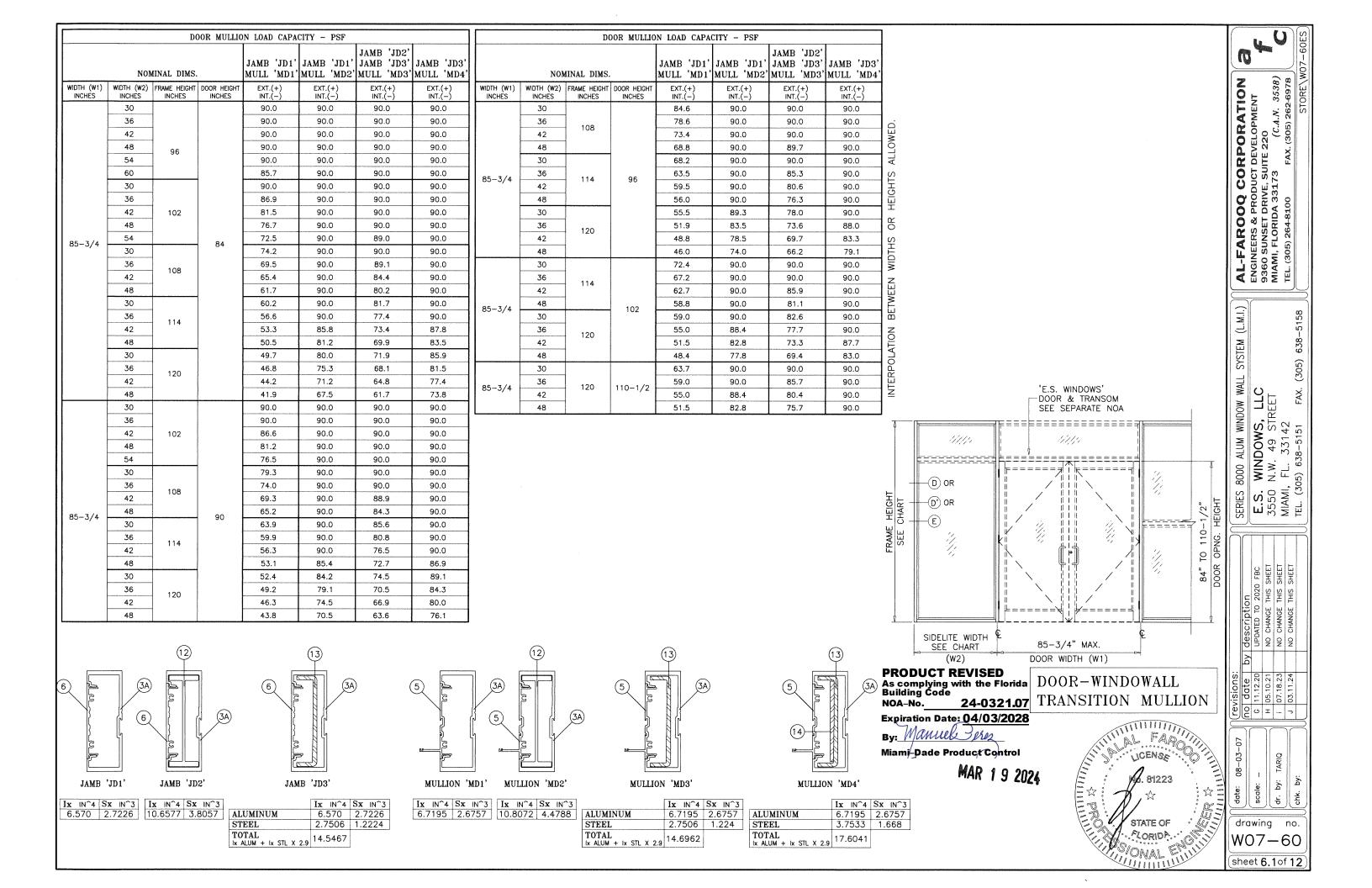
A

dr. by: TARIQ chk. by:

drawing no. W07-60

sheet **5.2** of **12**

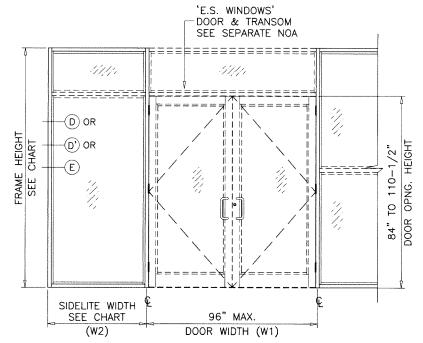




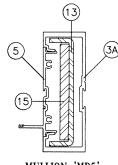
DOOR MULI		LION LOAD	CAPACITY	- PSF
NOMI		INAL DIMS.		JAMB 'JD3' MULL 'MD4
WIDTH (W2) F	WIDTH (W1) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)
30				90.0
36				90.0
42				90.0
48		96		90.0
54		30		90.0
60				90.0
30				90.0
36				90.0
42		102		90.0
48				90.0
54	96		84	90.0
30	90		04	90.0
36		108		90.0
42		108		90.0
48				89.4
30			;	90.0
36		114		85.5
42		114		81.5
48				77.8
30				79.1
36		120		75.3
42		120		71.8
48				68.7
30				90.0
36				90.0
42		102		90.0
48				90.0
54				90.0
30				90.0
36		400		90.0
42		108		90.0
48	96		90	90.0
30	30		30	90.0
36				89.5
42		114		85.1
48				81.1
30				82.1
36		100		78.0
42		120		74.3
54 30 36 42 48 30 36 42 48 30 36	96	108	90	90.0 90.0 90.0 90.0 90.0 90.0 89.5 85.1 81.1 82.1 78.0

48

		DOOR MUI	LLION LOAD	CAPACITY	- PSF		
, ,		NOM	IINAL DIMS.		JAMB 'JD3' MULL 'MD4'		
	WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)		
		30			90.0		
		36	108		90.0		
		42	100		90.0		
		48			90.0		
		30			90.0		
	96	36	114	96	90.0		
	30	42	117	30	89.8		
		48			85.3		
		30			86.1		
		36	120		81.6		
╛		42	120		77.5		
		48			73.9		
		30			90.0		
		36	114		90.0		
		42	117		90.0		
	96	48		102	90.0		
	30	30		102	90.0		
		36	120		86.3		
		42	120		81.8		
		48			77.7		
		30			90.0		
	96	36	120	110-1/2	90.0		
╽		42			90.0		
		48			85.1		
		30			57.0		
	96	36	144	108	54.2		
		42	177	,00	51.6		
┨┃		48			49.2		



	DOOR MU	LLION LOAD	CAPACITY	- PSF			
	NOM	MINAL DIMS.		JAMB 'JD3 MULL 'MD3			
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)			
	30			78.4			
76	36			73.8			
,,	42]		69.7			
	48			66.1			
	30			73.1			
84	36	144	108	69.1			
01	42	177	100	65.5			
	48			62.3			
	30			66.3			
96	36			63.0			
30	42			60.0			
	48			57.3			



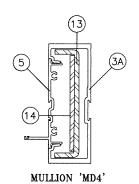
MULLION 'MD5'

	Ix IN^4	Sx IN^3
ALUMINUM	6.7195	2.6757
STEEL	4.7506	2.1114
TOTAL x ALUM + x STL X 2.9	20.3598	

70.9

JAMB 'JD3'

	Ix IN^4	Sx IN^3
ALUMINUM	6.570	2.7226
STEEL	2.7506	1.2224
TOTAL Ix ALUM + Ix STL X 2.9	14.5467	

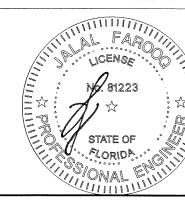


 Ix
 IN^4
 Sx
 IN^3

 6.7195
 2.6757

 3.7533
 1.668
 ALUMINUM STEEL TOTAL |x ALUM + |x STL x 2.9 | 17.6041

DOOR-WINDOWALL TRANSITION MULLION



	* 💹 🔾 🗸 dr			ON NO	
07	awi	scale: -	2 v	G 11.12.20	
7 _	ng		I	Н 05.10.21	
- 6		 dr. by: TARIQ		07.18.23	
30	no		 _	03.11.24	
)	٠.	 cnk. by:			

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 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

(305)

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

sheet **6.2** of **12**

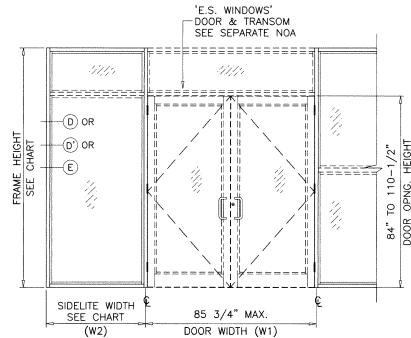
MAR 1 9 2024 PRODUCT REVISED
As complying with the Florida
Building Code NOA-No. 24-0321.07

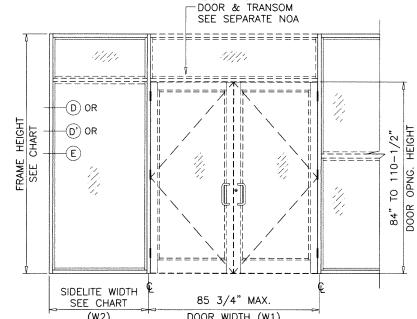
Expiration Date: 04/03/2028 By: Manuel Perez

Miami-Dade Product Control

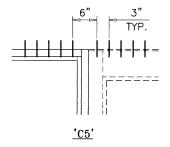
	D00	R MULLION	HEAD ANCH	IOR LOAD CAI	PACITY - PSF		\parallel
	NOM	MINAL DIMS.		'C4'	'C5'	'C6'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	W
	30			89.6	90.0	90.0	\prod
	36			85.0	90.0	90.0	
	42			80.8	90.0	90.0	Ш
	48	96		77.0	90.0	90.0	
	54			73.6	90.0	90.0	Ш
	60			70.4	88.0	90.0] [
	30			86.0	90.0	90.0]['
	36			81.5	90.0	90.0	
	42	102	84	77.4	90.0	90.0	
	48			73.8	90.0	90.0	
853/4	54			70.4	88.0	90.0	
00 0/ +	30		04	82.7	90.0	90.0]L
85-3/4	36	108		78.3	90.0	90.0	1Г
	42	100		74.3	90.0	90.0	11
	48			70.8	88.4	90.0	
	30			79.7	90.0	90.0] [
	36	114		75.4	90.0	90.0	11 '
	42	114		71.5	89.4	90.0	\parallel
	48			68.0	85.0	90.0	
	30			76.9	90.0	90.0	\mathbb{L}
	36	120		72.6	90.0	90.0	\prod
	42	120		68.9	86.1	90.0] [
	48			65.4	81.8	90.0] '
	30			84.1	90.0	90.0	
	36			79.7	90.0	90.0	
	42	102		75.8	90.0	90.0	
	48			72.3	90.0	90.0	
85-3/4	54			69.1	86.4	90.0]
	30			80.9	90.0	90.0	
	36	108		76.7	90.0	90.0	
	42	100		72.9	90.0	90.0	
	48		90	69.4	86.8	90.0]
	30		30	78.0	90.0	90.0]
	36	114		73.9	90.0	90.0	1
	42	''-		70.1	87.7	90.0	
	48			66.8	83.5	90.0	
	30			75.3	90.0	90.0]
	36	120		71.2	89.1	90.0	
	42	120		67.6	84.5	90.0	
	48			64.3	80.4	90.0	l

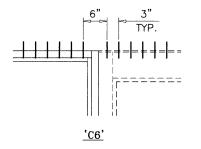
7		D00	R MULLION	HEAD ANCE	IOR LOAD CAP	ACITY - PSF]
		NOM	IINAL DIMS.		'C4'	'C5'	'C6'	
	WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	
7		30			79.2	90.0	90.0	
]		36	108		75.1	90.0	90.0	ے [
1		42	100		71.5	89.3	90.0] H
]		48			68.1	85.2	90.0	ALLOWFD
		30			76.4	90.0	90.0	Ī₹
]	85-3/4	36	114	96	72.4	90.0	90.0	V.
]	03-3/4	42	114	90	68.8	86.0	90.0] ፲
1		48			65.6	82.0	90.0	HFIGHTS
		30			73.8	90.0	90.0	
1		36	120		69.9	87.4	90.0	S B
		42	120		66.4	83.0	90.0	<u>v</u>
]		48			63.2	79.0	90.0] 🛓
		30			74.9	90.0	90.0	WIDTHS
]		36	114		71.0	88.8	90.0	
]		42	114		67.6	84.5	90.0	BETWEEN
	85-3/4	48		102	64.4	80.5	90.0] ≥
	00 0/ +	30		102	72.4	90.0	90.0] #
		36	120		68.6	85.7	90.0	Z
		42	120		65.2	81.5	90.0] E
]		48			62.1	77.7	90.0] 💆
		30			70.4	88.0	90.0] ĕ
	85-3/4	36	120	110-1/2	66.8	83.5	90.0	NTERPOLATION
	00-0/4	42	120	110-1/2	63.6	79.5	90.0	ĮΖ
		48			60.7	75.9	90.0]

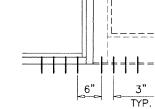




<u>'C4'</u>







'C4' AT SILL ALL CASES

Expiration Date: 04/03/2028

By: Manuel Perez

Miami-Dade Product Control

NOA-No.

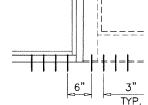
ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

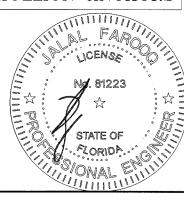
C6 = (6) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



TRANSITION MULLION ANCHORS

PRODUCT REVISED
As complying with the Florida
Building Code MAR 1 9 2024 24-0321.07



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\overline{S}	revisions:	date	G 11.12.20	05.10.21	07.18.23	03.11.24	
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

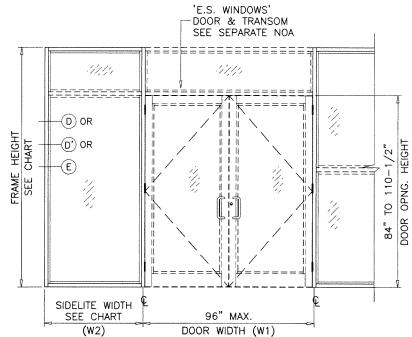
| SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.) | | E.S. WINDOWS, LLC | 3550 N.W. 49 STREET | MIAMI, FL. 33142 | TEL. (305) 638–5151 FAX. (305) 638–5158 | |

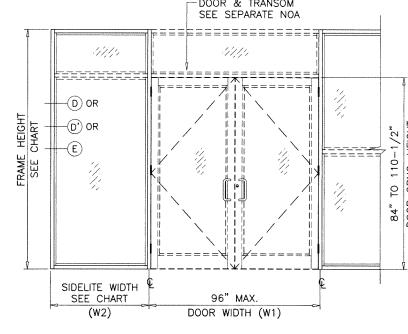
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NO CHANGE THIS
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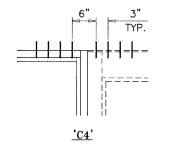
sheet 7 of 12

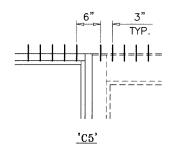
	роо	K MULLION	HEAD ANCI	HOR LOAD CAP		T
	NOM	INAL DIMS.	-	'C4'	'C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
	30			82.4	90.0	90.0
	36			78.5	90.0	90.0
	42	ļ		74.9	90.0	90.0
	48	96		71.7	89.6	90.0
	54			68.7	85.8	90.0
	60			65.9	82.4	90.0
	30			79.2	90.0	90.0
	36			75.3	90.0	90.0
	42	102		71.8	89.8	90.0
	48			68.7	85.8	90.0
96	54		84	65.8	82.2	90.0
30	30		- 34	76.2	90.0	90.0
	36	108		72.4	90.0	90.0
	42	100		69.0	86.3	90.0
	48 30 36 42 48			65.9	82.4	90.0
				73.4	90.0	90.0
		114		69.8	87.2	90.0
		117		66.4	83.0	90.0
				63.4	79.2	90.0
	30			70.9	88.6	90.0
	36	120		67.3	84.1	90.0
	42	120		64.0	80.0	90.0
	48			61.0	76.3	90.0
	30			77.3	90.0	90.0
	36			73.7	90.0	90.0
	42	102		70.3	87.9	90.0
	48			67.3	84.1	90.0
	54			64.5	80.6	90.0
	30			74.5	90.0	90.0
	36	108		70.9	88.6	90.0
	42	100		67.6	84.5	90.0
96	48		90	64.6	80.8	90.0
30	30		30	71.8	89.8	90.0
	36	114		68.3	85.4	90.0
	42	''-		65.1	81.4	90.0
	48			62.2	77.7	90.0
	30			69.4	86.7	90.0
	36	120		65.9	82.4	90.0
	42	. 20		62.8	78.5	90.0
	48			59.9	74.9	89.9

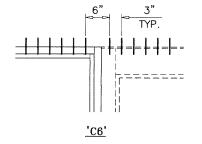
					PACITY - PSF	T
	NOMINAL DIMS.			'C4'	`C5'	'C6'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
96	30	108	96	72.8	90.0	90.0
	36			69.4	86.7	90.0
	42			66.3	82.8	90.0
	48			63.4	79.2	90.0
	30	114		70.3	87.9	90.0
	36			66.9	83.7	90.0
	42			63.8	79.8	90.0
	48			61.0	76.3	90.0
	30	120		68.0	84.9	90.0
	36			64.6	80.8	90.0
	42			61.6	77.0	90.0
	48			58.9	73.6	88.3
	30	114		68.8	86.1	90.0
	36			65.6	82.0	90.0
	42			62.6	78.3	90.0
96	48		102	59.9	74.9	89.9
30	30		102	66.6	83.2	90.0
	36	120		63.4	79.2	90.0
	42] 120		60.5	75.6	90.0
	48			57.8	72.3	86.7
96	30	120	110-1/2	64.7	80.9	90.0
	36			61.7	77.1	90.0
	42			58.9	73.7	88.4
	48			56.4	70.5	84.6
96	30	144	108	57.8	72.3	86.7
	36			54.9	68.7	82.4
	42	177	100	52.3	65.4	78.5
	48			49.9	62.4	74.9

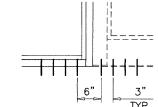












'C4' AT SILL ALL CASES

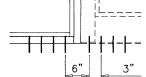
ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF DOOR MULLION

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ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



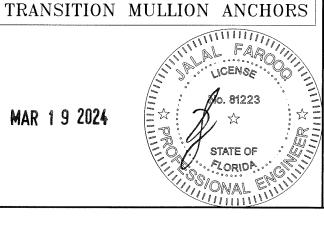
PRODUCT REVISED
As complying with the Florida
Building Code 24-0321.07 NOA-No.

Expiration Date: 04/03/2028

By: Manuel Pers

Miami-Dade Product Control

MAR 1 9 2024



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AL-FAROOQ CORPORATION
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W07-60 sheet **7.1**of **12**

