

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)

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, 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 **H** dated 05/10/21, 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, **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. 20-1118.03 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.



NOA No. 21-0517.02 Expiration Date: April 03, 2023 Approval Date: July 01, 2021 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, 5, 5.1, 5.2, 6, 6.1, 6.2, 7, 7.1 and 8 through 12 of 12, dated 08/03/07, with revision G dated 11/12/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

(Submitted under NOA No. 20-1118.03)

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-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*)

- 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
 - 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. 21-0517.02

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

along with marked-up drawings and installation diagram of an aluminum 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)

- 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
 - 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, signed and sealed by Jalal Farooq, P.E.

(Submitted under NOA No. 20-1118.03)

- 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. 21-0517.02

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- E. MATERIAL CERTIFICATIONS
 - 1. Notice of Acceptance No. 18-0725.11 issued to Kuraray America, Inc. for their "Kuraray SentryGlas[®] XtraTM (SGXTM) Clear Glass Interlayer" dated 05/23/19, expiring on 05/23/24.
 - 2. 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.

F. STATEMENTS (CONTINUED)

- 1. Statement letter of conformance, complying with FBC 6th Edition (2017), with FBC 7th Edition (2020), and of no financial interest, dated November 16, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. (Submitted under NOA No. 20-1118.03)
- 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. **19-1029.08**, issued to E.S. Windows, LLC for their Series "ES-8000" Aluminum Window Wall System – L.M.I., approved on 01/16/20 and expiring on 04/03/23.

Manuel Perez, P.E. Product Control Examiner NOA No. 21-0517.02

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, 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 **H** dated 05/10/21, 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 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.

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

Manuel Pérez, P.E. Product Control Examiner NOA No. 21-0517.02/

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED (CONTINUED)

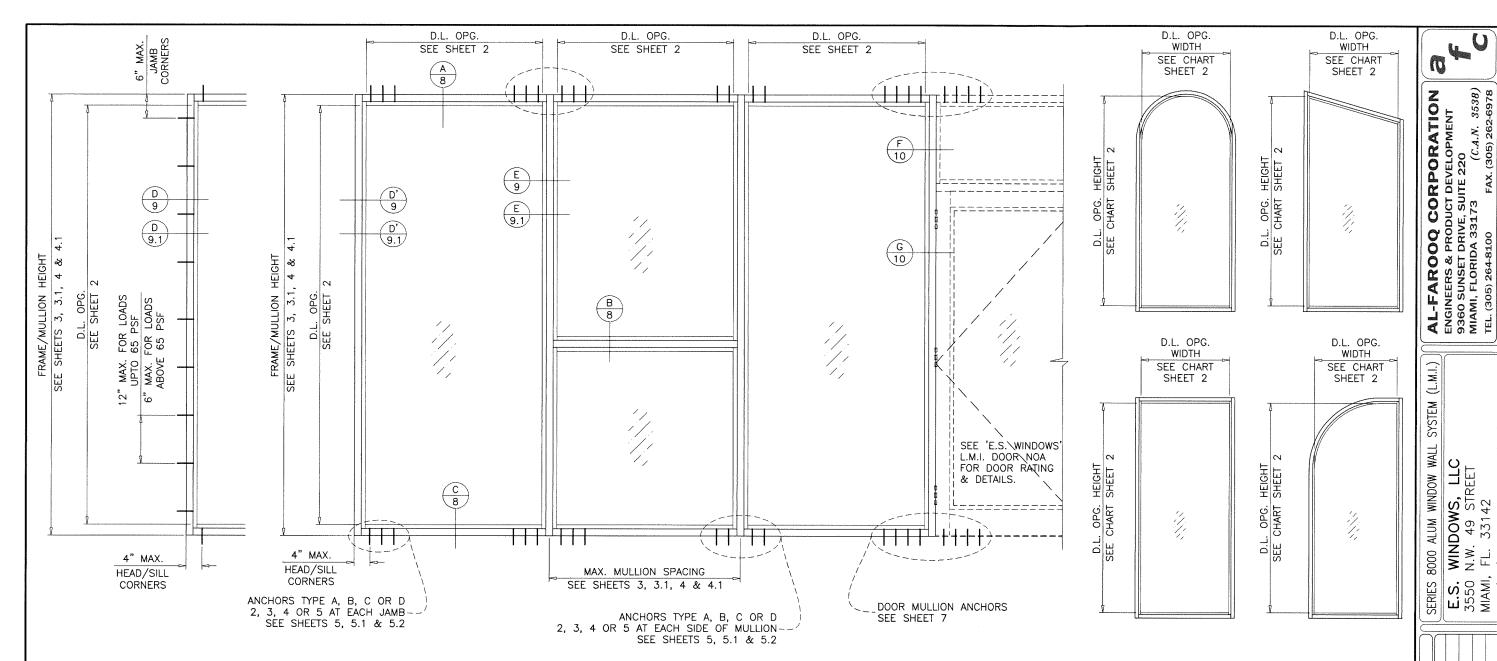
F. STATEMENTS

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

G. OTHERS

1. Notice of Acceptance No. **20-1118.03**, issued to E.S. Windows, LLC for their Series "ES-8000" Aluminum Window Wall System – L.M.I., approved on 02/11/21 and expiring on 04/03/23.

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0517.02



SERIES 8000 ALUMINUM WINDOW WALL SYSTEM THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT

SHUTTERS ARE NOT REQUIRED. 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.

- STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 THRU 4.1 FOR WINDOW WALL MULLION AND SHEETS 6 & 7 FOR DOOR MULLION THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4 CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM USING CHARTS ON SHEETS 5 THRU 5.2 FOR DOOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 7. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. SINGLE LITES MAY BE INSTALLED VERTICALLY AS SHOWN ABOVE OR HORIZONTALLY.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 21-0517.02

Expiration Date: 04/03/2023

By: Manuel Peres Miami-Dade Product Control

MAY 12 2021

LAMINATED GLASS LARGE MISSILE IMPACT



| (revisions: | no date | E 10.20.17 | F 09.28.18 | G 11.12.20 | H 05.10.21 | |
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| ite: 08-03-07 | | ale: 1/2"=1'-0" | | . by: TARIQ | | к. by: |

by description
UPDATED TO 2017 F
NO CHANGE THIS SH
UPDATED TO 2020 F
GENERAL REVISION

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

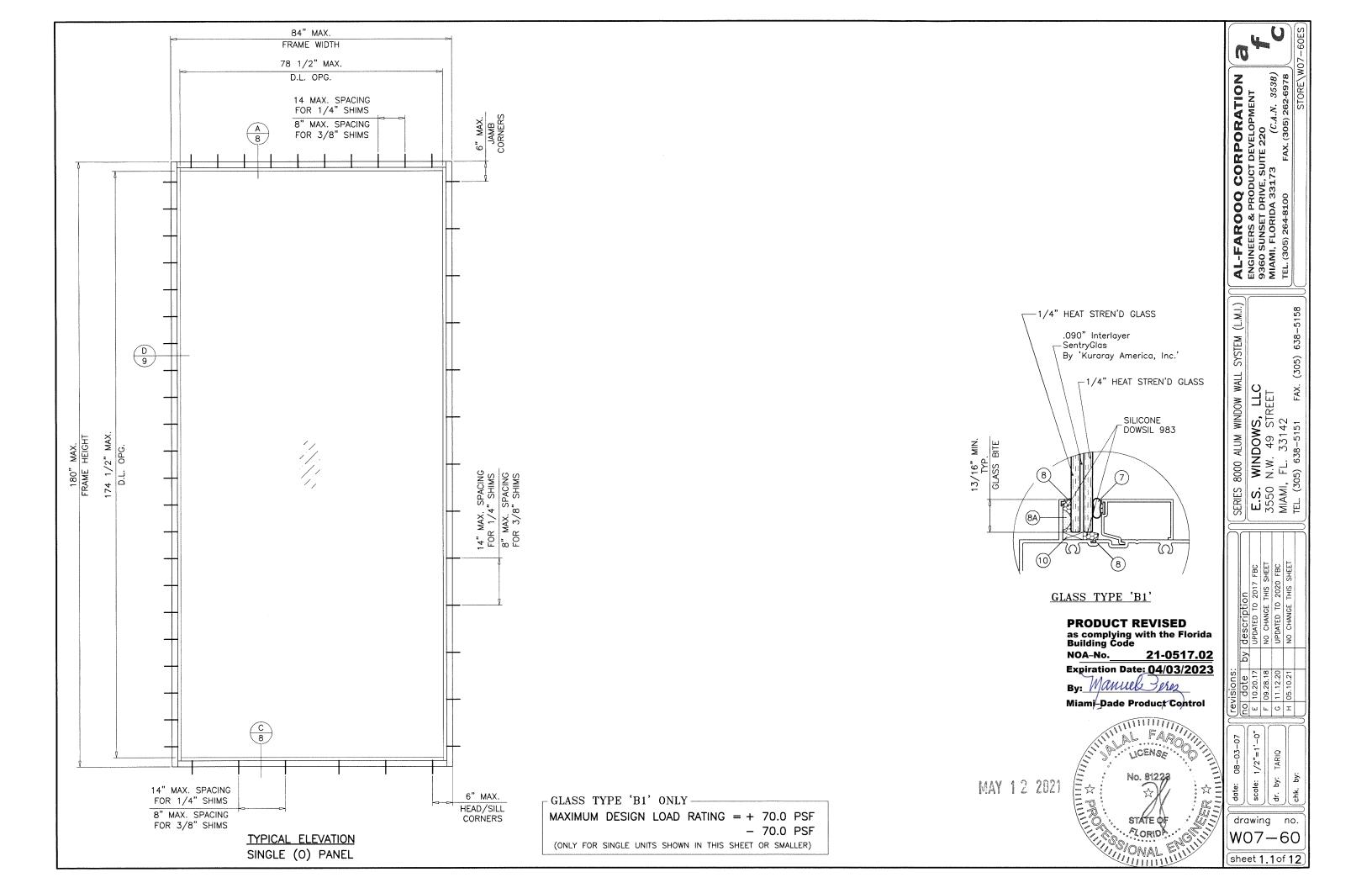
(305)

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

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drawing W07-60

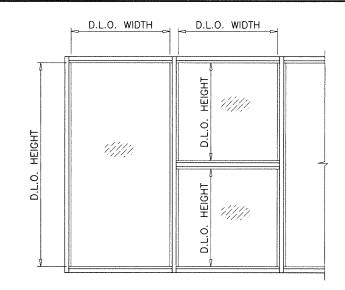
sheet 1 of 12

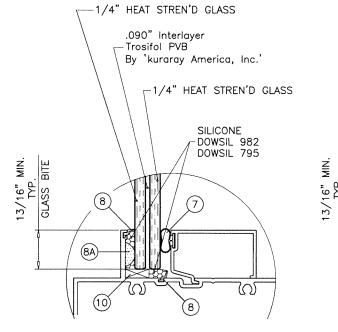


| GLASS LOAD CAPACITY - PSF | | | |
|---------------------------|--|-----------------|-----------------|
| NOMINA | AL DIMS. | GLASS TYPE 'A' | |
| D.L.O. WIDTH | D.L.O. HEIGHT | EXT.(+)/INT.(-) | EXT.(+)/INT.(-) |
| 28" | | 80.0 | 130.0 |
| 32" | | 80.0 | 130.0 |
| 36" | | 80.0 | 130.0 |
| 40" | | 80.0 | 130.0 |
| 44-1/4" | 04 1/0" | 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 |
| 32" | | 80.0 | 130.0 |
| 36" | | 80.0 | 130.0 |
| 40" | 96-1/2" | 80.0 | 130.0 |
| 44-1/4" | 30 1/2 | 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" | | 80.0 | 130.0 |
| 44-1/4" | 102-1/2" | 80.0 | 130.0 |
| 48" | | 80.0 | 128.9 |
| 54-1/2" | | 56.0 | 70.0 |
| 60-1/2" | | | 63.6 |
| | | | 58.3 |
| 66-1/2" | | 90.0 | |
| 28" | | 80.0 | 130.0 |
| 32" 36" | | 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 |

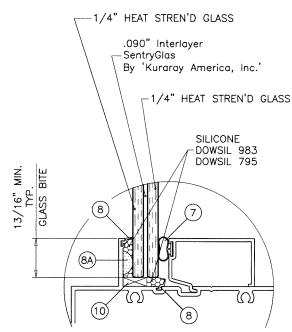
| ١ | GLASS LOAD CAPACITY - PSF | | | | | |
|---|---|--|-----------------|-----------------|--|--|
| | NOMINA | AL DIMS. | GLASS TYPE 'A' | GLASS TYPE 'B' | | |
| | D.L.O. WIDTH | D.L.O. HEIGHT | EXT.(+)/INT.(-) | EXT.(+)/INT.(-) | | |
| | 28" | | 80.0 | 130.0 | | |
| | 32" | | 80.0 | 130.0 | | |
| | 36" | | 80.0 | 130.0 | | |
| | 40" | | 80.0 | 130.0 | | |
| | 44-1/4" | 114 1/0" | 80.0 | 130.0 | | |
| | 48-1/2" | 114-1/2" | 62.2 | 90.0 | | |
| | 51-1/2" | 54-1/2" 60-1/2" | _ | 90.0 | | |
| | 54-1/2" | | - | 70.0 | | |
| | 66-1/2" | _ | 63.6 | | | |
| | | | _ | 58.3 | | |
| | 44-1/4" | | 70.0 | 90.0 | | |
| | 48" | 50" 120-1/2" 54-1/2" 60-1/2" 42-1/4" 44-1/4" 48" 126-1/2" | 62.2 | 90.0 | | |
| | 50" | | | 90.0 | | |
| | 54-1/2" | | _ | 70.0 | | |
| | | | | 63.6 | | |
| | 42-1/4" | | 70.0 | 90.0 | | |
| | 44-1/4" | | | 90.0 | | |
| | | | | 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" 46" 132-1/2" 48-1/2" 54-1/2" | | 90.0 | | | |
| | | _ | 90.0 | | | |
| | | | 70.0 | | | |
| | | *** | 70.0 | | | |
| | 40" | | 70.0 | 90.0 | | |
| | 42-1/4" | | 70.0 | 90.0 | | |
| | | 138-1/2" | _ | 90.0 | | |
| | 48-1/2" | 44-1/4" 138-1/2" | - | 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. 21-0517.02

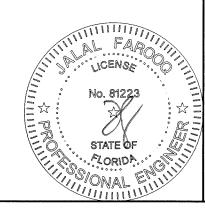
Expiration Date: 04/03/2023

By: Manuel Pres

Miami-Dade Product Control

MAY 12 2021

GLASS



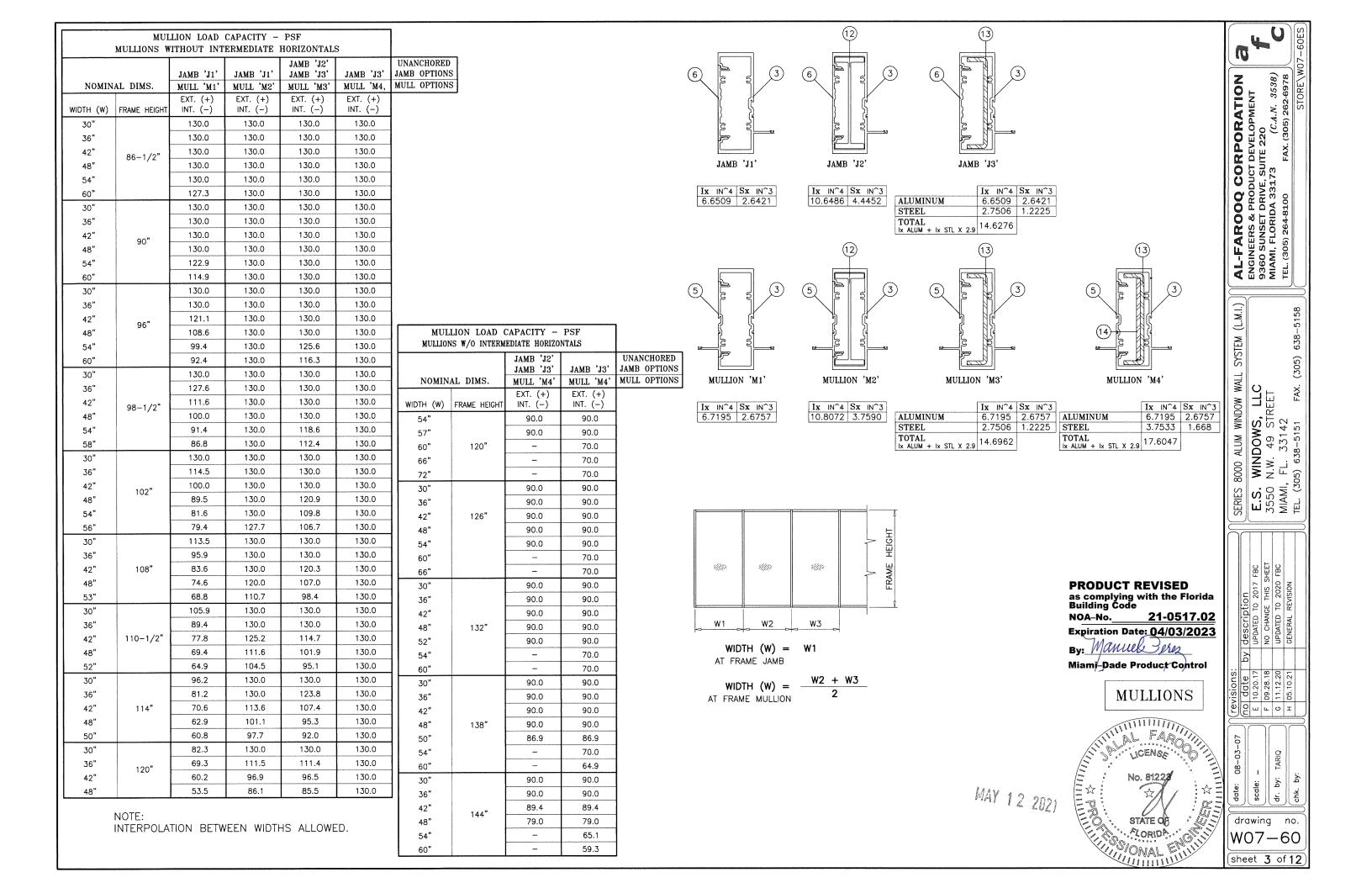
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|----|---|----------|-------------------|-------------|----|------------|----|---|
| (d | | date: | 08-03-07 | \subseteq | re | revisions: | | *************************************** |
| ra | | | | | no | no date | by | by description |
| wi | | scale: | scale: 1/2"=1'-0" | | ш | E 10.20.17 | | NO CHANGE THIS SHE |
| na | | | | | ш | F 09.28.18 | | NO CHANGE THIS SHE |
| | | dr. by | dr. by: TARIQ | | G | G 11.12.20 | | UPDATED TO 2020 FI |
| no | | | | | I | H 05.10.21 | | GENERAL REVISION |
|) | | chk. 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.) | E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 | TEL. (305) 638-5151 FAX. (305) 638-5158 |

W07-60 sheet 2 of 12

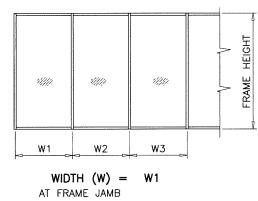
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).



| | | HORIZONTALS | |
|-----------|-------------------------------|--------------------------|--------------------------|
| NOMIN | AL DIMS. | JAMB 'J1A' MULL 'M1A' | JAMB 'J1A' MULL 'M2A' |
| | | EXT. (+) | EXT. (+) |
| WIDTH (W) | FRAME HEIGHT | INT. (-) | INT. (-) |
| 30" | | 60.0 | 70.0 |
| 36" | | 60.0 | 70.0 |
| 42" | 86-1/2" | 60.0 | 70.0 |
| 48" | | 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" | 90" | 60.0 | 70.0 |
| 48" | | 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" | 42" 96" 48" 54" 60" 30" | 60.0 | 70.0 |
| 48" | | 60.0 | 70.0 |
| 54" | | 55.6 | 70.0 |
| 60" | | 51.5 | 70.0 |
| | | 60.0 | 70.0 |
| 36" | | 60.0 | 70.0 |
| 42" | 1 | 60.0 | 70.0 |
| 48" | | 57.6 | 70.0 |
| 54" | | 52.4 | 70.0 |
| 30" | | 60.0 | 70.0 |
| 36" | | 60.0 | 70.0 |
| 42" | | 59.7 | 70.0 |
| 48" | | 53.2 | 70.0 |
| 54" | | 48.3 | 70.0 |
| 30" | | 60.0 | 70.0 |
| 36" | | 60.0 | 70.0 |
| 42" | 42" 108" | 52.6 | 70.0 |
| 48" | , 55 | 46.8 | 70.0 |
| 54" | 108" | - | 70.0 |
| 60" | | - | 70.0 |
| 30" | | 60.0 | 70.0 |
| 36" | | 57.1 | 70.0 |
| 42" | 110-1/2" | 49.7 | 70.0 |
| 48" | 110-1/2" | 44.3 | 70.0 |
| 54" | | _ | 70.0 |
| 60" | | | 70.0 |
| 30" | | 60.0 | 70.0 |
| 36" | | 51.8 | 70.0 |
| 42" | 114" | 45.1 | 70.0 |
| 48" | 114" | 40.1 | 70.0 |
| 54" | | | 70.0 |
| 30" | | 52.5 | 70.0 |
| 36" | | 44.3 | 70.0 |
| 42" | 120" | 38.5 | 70.0 |
| 48" | 120 | 34.2 | 66.7 |
| 54" | | _ | 60.4 |
| 57" | | | 57.8 |

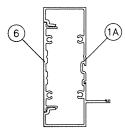
| | MULLION LOAD CAPACITY - PSF | | | | |
|------|-----------------------------|--------------|----------------------|----------------------|----------------------------|
| LS | MUL MULLIONS V | | | | |
| Α' | | | JAMB 'J1A' | JAMB 'J1A' | UNANCHORED JAMB OPTIONS |
| A PA | NOMIN | AL DIMS. | MULL 'M1A' | MULL 'M2A' | MULL OPTIONS |
| | 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 | |
| | 36" | | | 64.5 | |
| | 42" | 132" | | 55.9 | |
| _ | 48" | | | 49.6 | |
| | 52" | | _ | 46.2 | |
| | 30" | | | 67.1 | |
| _ | 36" | | | 56.3 | |
| | 42" | 138" | _ | 48.8 | |
| _ | 48" | | - | 43.2 | |
| _ | 50" | | - | 41.6 | |
| _ | 30" | | | 58.9 | |
| | 36" | 144" | | 49.5 | |
| _ | 42" | | - | 42.8 | |

48"



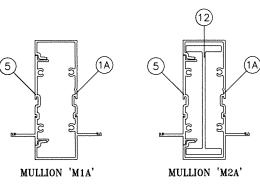
37.8

W2 + W3WIDTH (W) = AT FRAME MULLION



JAMB 'J1A'

| Ix | IN' | `4 | Sx | IN' | `3 |
|-----|-----|----|-----|-----|----|
| 4.1 | 31 | 6 | 1.6 | 90 | 2 |



Ix IN^4 Sx IN^3 4.2902 1.7239

 Ix
 IN^4
 Sx
 IN^3

 8.3779
 3.527

PRODUCT REVISED
as complying with the Florida
Building Code NOA-No. 21-0517.02

Expiration Date: 04/03/2023

Miami-Dade Product Control



MAY 12 2021

| | MULLIONS | |
|------------|---|--|
| D PROPERTY | No. 812231 STATE OF ALORIDA ALORIDA | |
| | | |

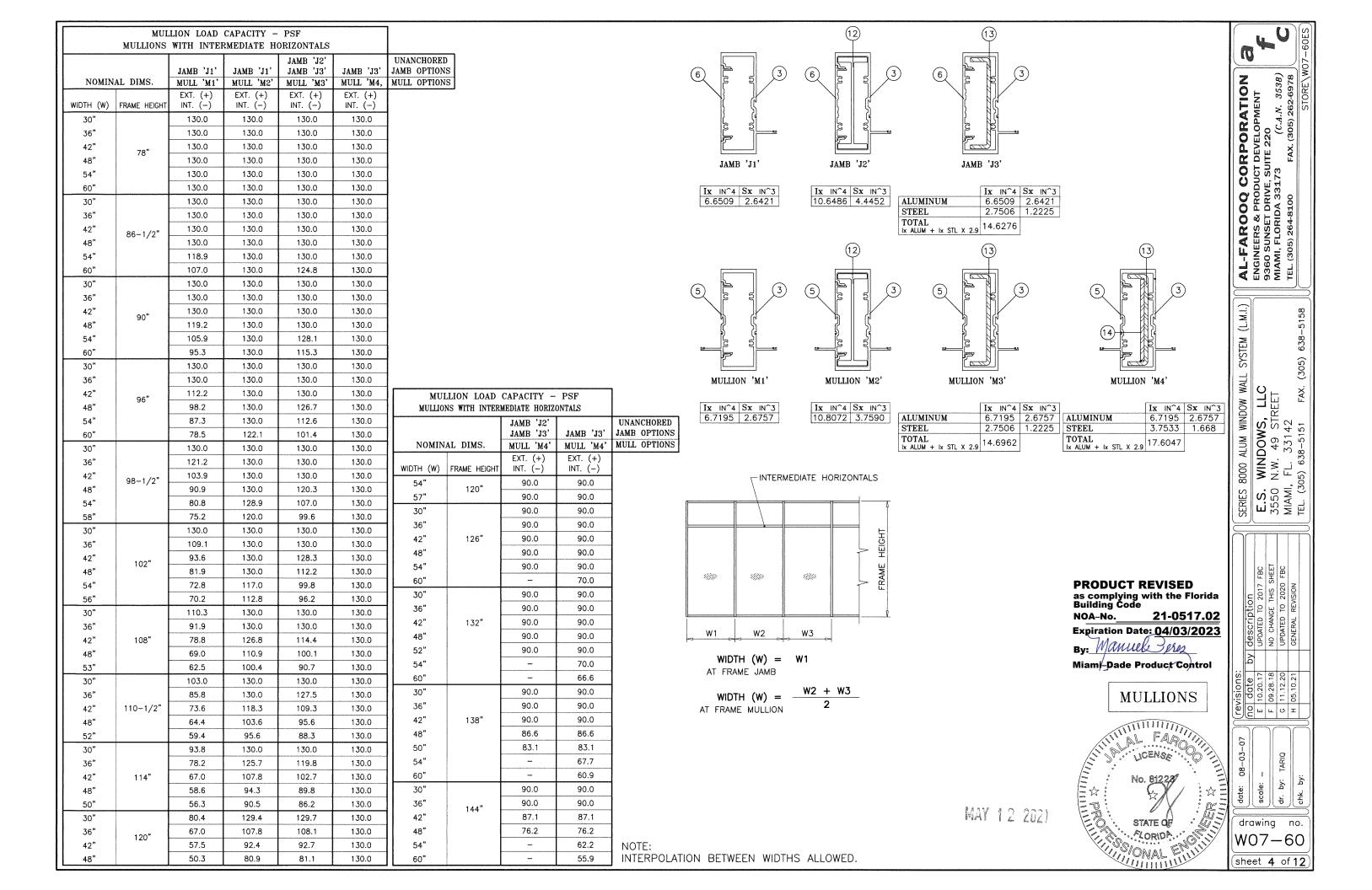
| date: 08-03-07 | revisions: | CEDIES 8000 ALLIM WINDOW WALL SYSTEM (LM.) |
|----------------|-----------------------------|--|
| | no date by description | SEINILS SOUD ALOIM MINDOM WALL SISILIM (L.IM.I.) |
| scale: - | | E.S. WINDOWS, LLC |
| | | 3550 N W 49 STREET |
| dr. by: TARIQ | | MANN F1 22140 |
| | H 05.10.21 GENERAL REVISION | |
| chk. by: | | (TEL. (305) 638-5151 FAX. (305) 638-5158 |

drawing no. W07-60

sheet **3.1**of **12**

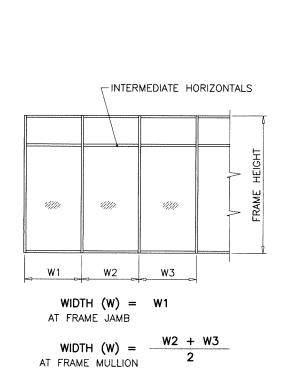
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33.173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

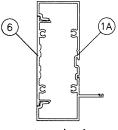
NOTE: INTERPOLATION BETWEEN WIDTHS ALLOWED.



| MULLION LOAD CAPACITY - PSF MULLIONS WITH INTERMEDIATE HORIZONTALS | | | | |
|--|-------------------|--------------------------|-----------------------|--|
| NOMIN | AL DIMS. | JAMB 'J1A' MULL 'M1A' | JAMB 'J1A MULL 'M2 | |
| WIDTH (W) | FRAME HEIGHT | EXT. (+) INT. (-) | EXT. (+) INT. (-) | |
| 30" | TTO WILL TIETOTTI | 60.0 | 70.0 | |
| 36" | | 60.0 | 70.0 | |
| 42" | | 60.0 | 70.0 | |
| 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" | 90" | 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" | 96" | 60.0 | 70.0 | |
| 48" | | 56.1 | 70.0 | |
| 54" | | 49.9 | 70.0 | |
| 60" | | 44.9 | 70.0 | |
| 30" | | 60.0 | 70.0 | |
| 36" | | 60.0 | 70.0 | |
| 42" | 98-1/2" | 60.0 | 70.0 | |
| 48" | · | 53.2 | 70.0 | |
| 54" | | 47.2 | 70.0 | |
| 30" | | 60.0 | 70.0 | |
| 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" 42" | | 58.4 50.0 | 70.0 | |
| 42 48" | 108" | 43.8 | 70.0 | |
| 54" | - | 45.0 | 70.0 | |
| 60" | | NAME. | 70.0 | |
| 30" | | 60.0 | 70.0 | |
| 36" | | 54.8 | 70.0 | |
| 42" | | 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 | |

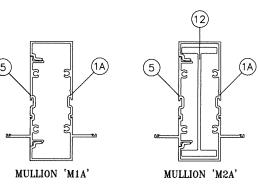
| 1A' | INANCHORED LMB OPTIONS ULL OPTIONS |
|---|------------------------------------|
| WIDTH (W) FRAME HEIGHT INT. (-) INT. (-) | |
| 36" — 70.0 42" — 64.6 48" — 57.3 54" — 51.8 30" — 70.0 36" — 64.5 42" — 55.9 48" — 49.6 52" — 46.2 30" — 67.1 | |
| 42" 126" - 64.6 48" - 57.3 54" - 51.8 30" - 70.0 36" - 64.5 42" - 55.9 48" - 49.6 52" - 46.2 30" - 67.1 | |
| 48" — 57.3 54" — 51.8 30" — 70.0 36" — 64.5 42" — 55.9 48" — 49.6 52" — 46.2 30" — 67.1 | |
| 48" - 57.3 54" - 51.8 30" - 70.0 36" - 64.5 42" - 55.9 48" - 49.6 52" - 46.2 30" - 67.1 | |
| 30" - 70.0 36" - 64.5 42" - 55.9 48" - 49.6 52" - 46.2 30" - 67.1 | |
| 36" - 64.5 42" - 55.9 48" - 49.6 52" - 46.2 30" - 67.1 | |
| 42" 132" - 55.9 48" - 49.6 52" - 46.2 30" - 67.1 | |
| 48" - 49.6 52" - 46.2 30" - 67.1 | |
| 48" - 49.6 52" - 46.2 30" - 67.1 | |
| 30" – 67.1 | |
| | |
| | |
| | |
| 42" - 48.8 | |
| 48" - 43.2 | |
| 50" - 41.6 | |
| 30" – 58.9 | |
| 36" - 49.5 | |
| 42" - 42.8 | |
| 48" - 37.8 | |





JAMB 'J1A'

| Ix | IN^4 | Sx | IN^3 |
|-----|------|-----|------|
| 4.1 | 316 | 1.6 | 902 |



Ix IN^4 Sx IN^3 4.2902 1.7239

 Ix
 IN^4
 Sx
 IN^3

 8.3779
 3.527

PRODUCT REVISED
as complying with the Florida
Building Code NOA-No. 21-0517.02

Expiration Date: 04/03/2023

By: Manuel Pers

Miami-Dade Product Control

MULLIONS

MAY 12 2021

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 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

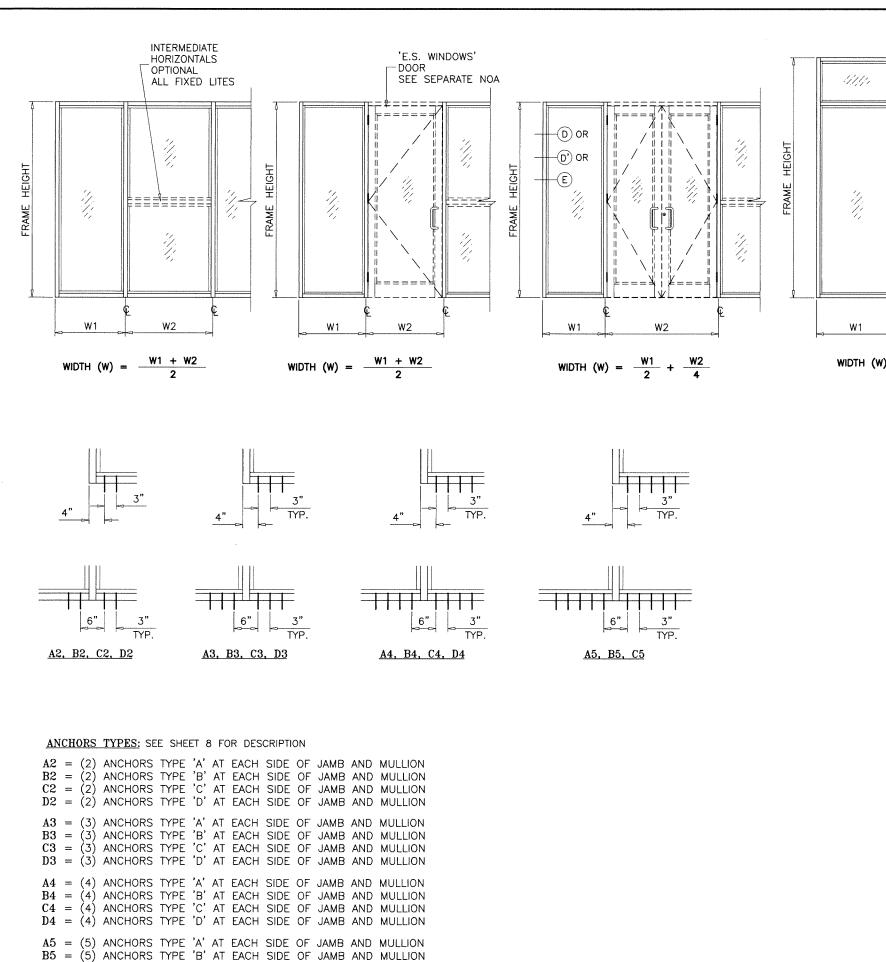
GENERAL REVISION

I <u>ئ</u>

drawing W07-60

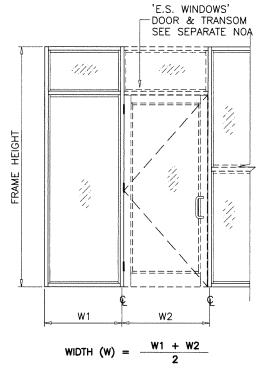
(sheet **4.1**of **12**)

INTERPOLATION BETWEEN WIDTHS ALLOWED.



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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0517.02

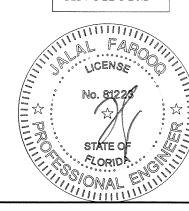
Expiration Date: 04/03/2023

By: Manuel ers
Miami-Dade Product Control

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

ANCHORS

MAY 12 2021



| ٠ | | | | | \leq | 9 |
|---|--|---------------------------------|--------------------------------|--------------------------------|---|--|
| AL -FAROOD CORPORATION | こうこうかかからて | ENGINEERS & PRODUCT DEVELOPMENT | <u></u> | 51/3 | TEL. (305) 264-8100 FAX. (305) 262-6978 | STORE\W07- |
| | - - - | | | | | |
| W | , (L.) | | | | | FAX. (305) 638-5158 |
| SYSTE | | | | | , | 05) 63 |
| WALL | 11. ILL | Q | · - | - | • | AX. (3 |
| MOUNI | | 3. | TREE | , | | |
| × | | SWOC | 40 | , 727 | t : | 8-515 |
| ROOD A | | Z X | ≥ | : : : : | ; ; : | 5) 63 |
| SFRIFS 8000 ALLM WINDOW WALL SYSTEM (LM.) | ון וון וון פון פון פון פון פון פון פון פ | E.S. WINDOWS, LLC | 3550 N W 49 STREET | MINNI EI 22110 | VIIANII, | TEL. (305) 638-5151 |
| | ال ح | | | | | |
| | | | Ε. | | | |
| ı | 1 | 8 | щ | ည္က | Ħ | |
| | c | 2017 FBC | THIS SHEE | 2020 FBC | THIS SHEET | |
| | cription | TED TO 2017 FBC | HANGE THIS SHEE | TED TO 2020 FBC | HANGE THIS SHEET | |
| | y description | UPDATED TO 2017 FBC | NO CHANGE THIS SHEET | UPDATED TO 2020 FBC | NO CHANGE THIS SHEET | |
| ns: | ۵ | | | | | and the same of th |
| evisions: | lo date by description | E 10.20.17 UPDATED TO 2017 FBC | F 09.28.18 NO CHANGE THIS SHEE | | H 05.10.21 NO CHANGE THIS SHEET | |
| 7 (revisions: | ۵ | | | G 11.12.20 UPDATED TO 2020 FBC | | |
| \leq | ۵ | | | G 11.12.20 | | |
| \leq | ۵ | E 10.20.17 | | G 11.12.20 | H 05.10.21 | k. by: |
| date: 08-03-07 (revisions: | ۵ | | | | H 05.10.21 | Oll chk. by: |
| \leq | ۵ | Scale: _ E 10.20.17 | | dr. by: TARIQ G 11.12.20 | H 05.10.21 | |

(sheet 5 of 12)

U

| | | | | | | | | | | | ANCE | | (+) & | | (– P: | 3 F | | | | | | | | | | | | |
|------------|--------------|--------------|--------------|-------|--------|------|--------------|--------------|--------------|--------------|---------|--------------|-------|------|--------------|--------------|-------|--------------|--------------|---------|-------|--------------|--------------|---------|-------|--------------|--------------|--------|
| | | | | Al | NCHORS | TYPE | 'A' | | | | | AN | CHORS | TYPE | В' | | | | | AN | CHORS | | | | | 1/4" | MAX. | SHIM |
| NOMIN | AL DIMS. | 3, | /8" SHI | M SPA | CE | 1, | /2" SHI | M SPA | CE | 3, | /8" SHI | M SPAC | Œ | 1, | /2" SHI | IM SPAC | Œ | 3, | /8" SHI | IM SPAC | СЕ | 1, | /2" SH | IM SPAC | Œ | ANCHO | 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 | С3 | 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" | | 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 61.8 | 84.9 | 26.6 | 40.0 | 53.3 48.5 | 66.6 | 57.9 52.7 | 86.6 79.0 | 115.9 | 130.0 | 45.7 41.5 | 68.6 | 91.4 | 114.3 | 86.8 78.9 | 130.0 | 130.0 |
| 66" | | 26.9 24.6 | 40.3 36.9 | 53.7 | 67.1 | 21.0 | 31.4 28.8 | 41.9 38.4 | 52.4 48.0 | 30.9 28.3 | 46.4 | 56.7 | 77.3 | 24.3 | 36.4 33.4 | 44.5 | 55.6 | 48.3 | 72.4 | 96.6 | 120.7 | 38.0 | 62.2 57.0 | 76.1 | 95.1 | 72.3 | 108.5 | 130.0 |
| 72" 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 |
| 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 |
| 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" | | 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" | | 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" | 98-1/2" | 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" | 30-1/2 | 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 | |
| 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" | 102" | 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" | .02 | 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 | + |
| 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 | + |
| 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 | | 73.2 | 109.9 | + | 130.0 | 130.0 | <u> </u> | - |
| 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 | 130.0 | 61.0 | 91.6 | 122.1 | 130.0 | 1 | | + |
| 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 | + |
| 48" | 108" | 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" | | 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 | 130.0 |
| 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 |
| | į. | 21.5 | 32.3 | 43.0 | 53.8 | ı – | 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 |
| 66" 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 |

ANCHOR LOAD CAPACITY - PSF

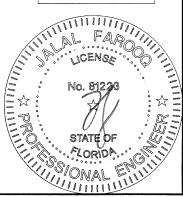
SEE SHEETS 5 AND 8 FOR ANCHOR DESCRIPTION.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0517.02

Expiration Date: 04/03/2023

Miami-Dade Product Control

ANCHORS



| Odate: | 1 : & | | | | | | | | | | | |
|------------|------------------|----------------|----------------|-----------------|------------------|--|--|--|--|--|--|--|
| _03-07 | 08-03-07 | | | | | | | | | | | |
| <u>(</u> | no | Ш | ь | IJ | I | | | | | | | |
| revisions: | no date | E 10.20.17 | F 09.28.18 | G 11.12.20 | H 05.10.21 | | | | | | | |
| | λą | | | | | | | | | | | |
| | by description | NO CHANGE THIS | NO CHANGE THIS | UPDATED TO 2020 | GENERAL REVISION | | | | | | | |
| | tion | E THIS | E THIS | TO 202 | REVISION | | | | | | | |

(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) 638-5158

MAY 12 2021

W07-60 (sheet **5.1**of **12**)

| | ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|------|---------|--------------|--------------|------|---------|--------|------|------|--------|--------------|-------|----------|--------------|---------|-------|--------------|--------|-------|---------|------|--------|--------|-------|------------------|-------|-------|
| | | | | Αl | NCHORS | TYPE | 'A' | | | | | AN | CHORS | TYPE | 'В' | | | | | Al | NCHORS | TYPE | 'C' | | | 1/4" | MAX. | SHIM |
| NOMIN | AL DIMS. | 3, | /8" SHI | IM SPAC | CE | 1, | /2" SHI | M SPAC | Œ | 3, | /8" SH | M SPAC | CE | 1, | /2" SH | IM SPAC | CE | 3, | /8" SH | M SPA | CE | 1, | /2" SH | IM SPA | CE | ANCHORS TYPE 'D' | | |
| WIDTH (W) | FRAME HEIGHT | A2 | A3 | A4 | A5 | A2 | А3 | A4 | A5 | B2 | В3 | B4 | B5 | B2 | В3 | B4 | B5 | C2 | СЗ | C4 | C5 | C2 | C3 | 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" | 110-1/2 | 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 | + |
| 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" | | 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" | 114" | 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 |
| | | 35.5 | | | | | | | | | | 81.6 | | | | - | + | | | ļ | | | | - | + | | | + |
| 36" | | | 53.2 | 71.0 | 88.7 | 27.7 | 41.6 | 55.4 | 69.3 | 40.8 | 61.2 | | 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" | 100" | 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" | 136 | 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" | 4.439 | 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" | 144" | 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 |
| | | | | | L | L | | | • | | | | | <u> </u> | | | 1 | | | l | EDDO! 4 | L | L | i | | | L | |

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

PRODUCT REVISED

as complying with the Florida Building Code NOA-No. 21-0517.02 Expiration Date: 04/03/2023

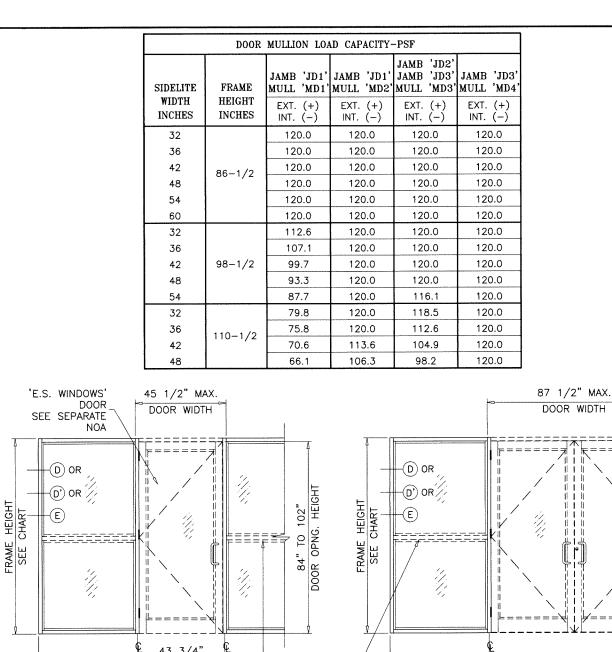
By: Manuel Pres Miami-Dade Product Control No. 81223

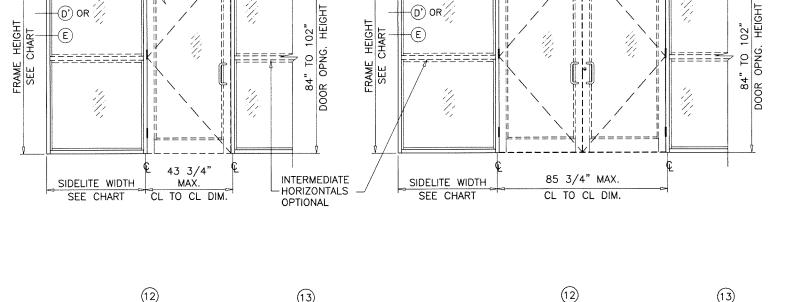
STATE OF

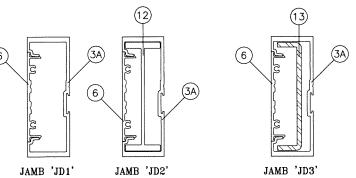
ALORIDA

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

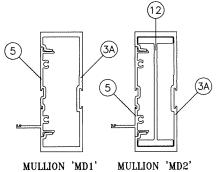
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978 E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158 by description
NO CHANGE THIS SHEET
NO CHANGE THIS SHEET
UPDATED TO 2020 FBC
GENERAL REVISION 08-03-07 dr. by: TARIQ scale: drawing no. W07-60







| Ix IN^4 | Sx IN^3 | Ix IN^4 | Sx IN^3 | | Ix IN^4 | Sx IN^3 |
|---------|---------|---------|---|---------------------------------|---------|---------|
| 6.570 | 2.7226 | 10.6577 | 3.8057 | ALUMINUM | 6.570 | 2.7226 |
| | 4 | | *************************************** | STEEL | 2.7506 | 1.2224 |
| | | | | TOTAL x ALUM + x STL X 2.9 | 14.5467 | |



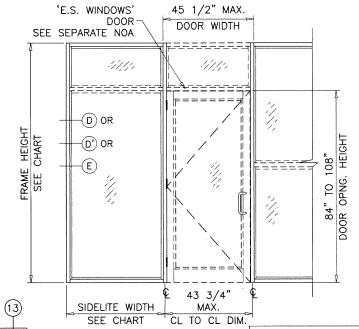
| Ix IN^4 | Sx IN^3 | Ix IN^4 | Sx IN^3 |
|---------|---------|---------|---------|
| 6.7195 | 2.6757 | 10.8072 | 4.4788 |
| | | | |

| (13) |
|---------------|
| (5) (3A) |
| |
| MULLION 'MD3' |

| 1^3 | | Ix IN^4 | Sx IN^3 |
|------------|----------|---------|---------|
| 88 | ALUMINUM | 6.7195 | 2.6757 |
| | STEEL | 2.7506 | 1.224 |
| | TOTAL | 14.6962 | |

| SIDELITE | FRAME | | JAMB 'JD1' MULL 'MD2' | JAMB 'JD2' JAMB 'JD3' MULL 'MD3' | |
|-----------------|------------------|----------------------|--------------------------|--|----------------------|
| WIDTH INCHES | HEIGHT INCHES | EXT. (+) INT. (-) | EXT. (+) INT. (-) | EXT. (+) INT. (-) | EXT. (+) INT. (-) |
| 32 | | 90.0 | 90.0 | 90.0 | 90.0 |
| 36 | | 90.0 | 90.0 | 90.0 | 90.0 |
| 42 | 98-1/2 | 90.0 | 90.0 | 90.0 | 90.0 |
| 48 | | 90.0 | 90.0 | 90.0 | 90.0 |
| 54 | | 87.7 | 90.0 | 90.0 | 90.0 |
| 32 | | 79.8 | 90.0 | 90.0 | 90.0 |
| 36 | 110-1/2 | 75.8 | 90.0 | 90.0 | 90.0 |
| 42 | 110-1/2 | 70.6 | 90.0 | 90.0 | 90.0 |
| 48 | | 66.1 | 90.0 | 90.0 | 90.0 |
| 32 | | 72.6 | 90.0 | 90.0 | 90.0 |
| 36 | 114 | 69.1 | 90.0 | 90.0 | 90.0 |
| 42 | 117 | 64.3 | 90.0 | 90.0 | 90.0 |
| 48 | | 60.2 | 90.0 | 90.0 | 90.0 |
| 32 | | 62.3 | 90.0 | 90.0 | 90.0 |
| 36 | 120 | 59.2 | 90.0 | 90.0 | 90.0 |
| 42 | 120 | 55.2 | 88.7 | 89.1 | 90.0 |
| 48 | | 51.6 | 83.0 | 83.4 | 90.0 |
| 32 | | | _ | **- | 90.0 |
| 36 | 144 | _ | - | | 89.8 |
| 42 | '** | _ | - | | 83.6 |
| 48 | | - | _ | _ | 78.3 |

DOOR MULLION LOAD CAPACITY-PSF



PRODUCT REVISED as complying with the Florida Building Code 21-0517.02 NOA-No.

Expiration Date: 04/03/2023 By: Manuel Perez

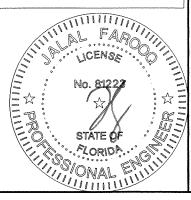
Miami-Dade Product Control

| | Ix IN^4 | Sx IN^3 | LAAV |
|---------------------------------|---------|---------|------|
| ALUMINUM | 6.7195 | 2.6757 | |
| STEEL | 3.7533 | 1.668 | |
| TOTAL ix ALUM + ix STL X 2.9 | 17.6041 | | |

MULLION 'MD4'

1 2 2021

| DOOR-WINDO | OWALL |
|------------|---------|
| TRANSITION | MULLION |



| date: 08-03-07 | | revisions: | no date | E 10.20.17 | F 09.28.18 | G 11.12.20 | H 05.10.21 | |
|----------------|----|------------|---------|------------|------------|---------------|------------|----------|
| - /1 () | _\ | | | scale: - | | dr. by: TARIQ | | chk. by: |

by description
UPDATED TO 2017 FBC
144 HT. ADDED
UPDATED TO 2020 FBC
NO CHANGE THIS SHEET

U

(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

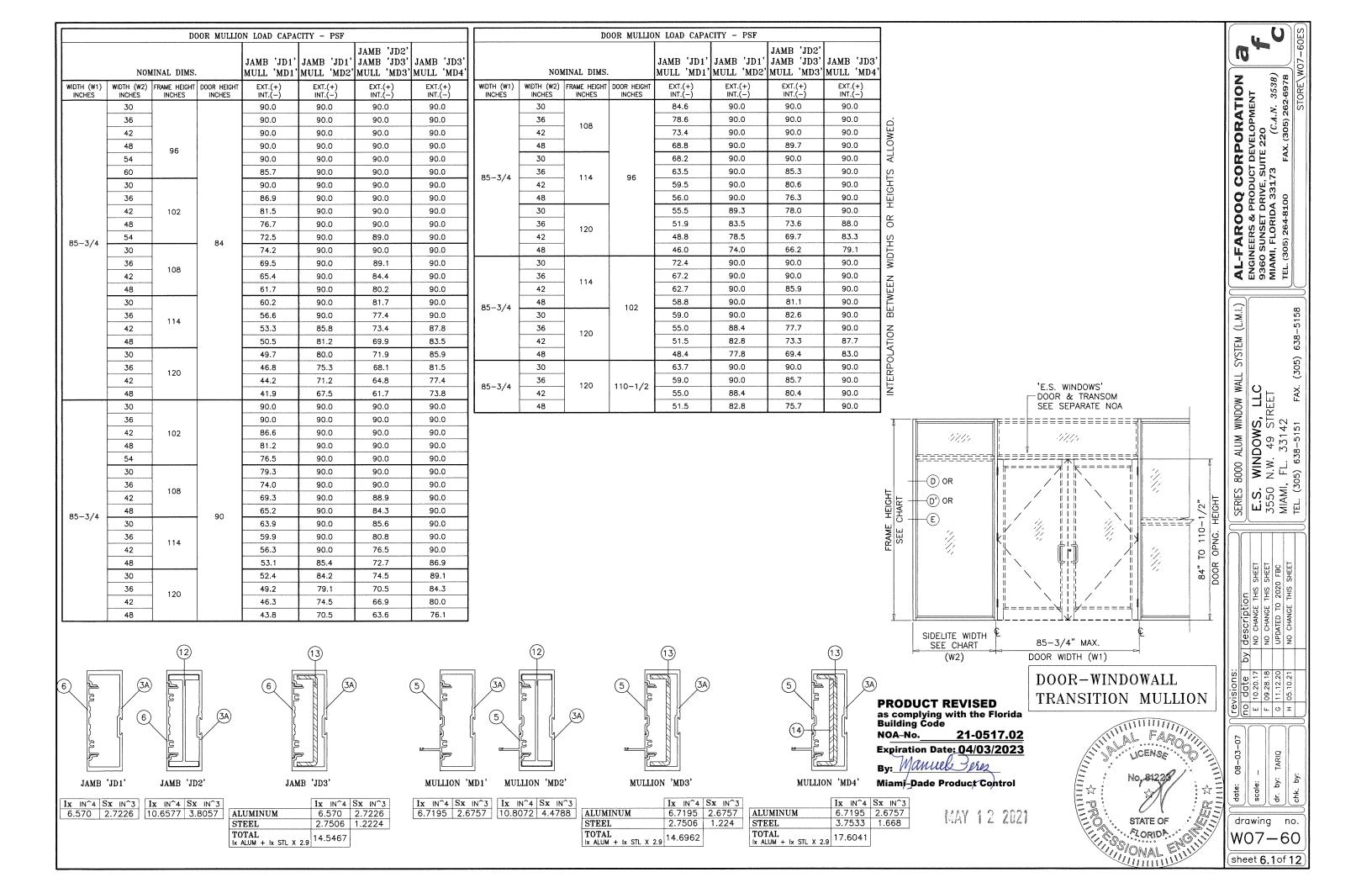
(L.M.I.)

SERIES 8000 ALUM WINDOW WALL SYSTEM

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

drawing no. W07-60

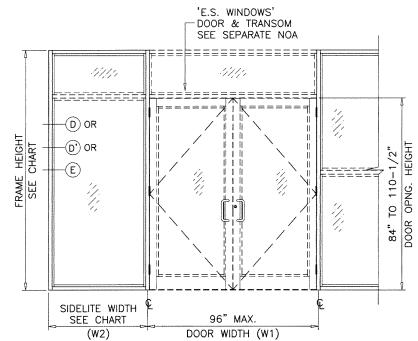
sheet 6 of 12



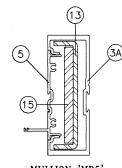
| | DOOR MU | LLION LOAD | CAPACITY | ···· |
|----------------------|----------------------|------------------------|-----------------------|-------------------------|
| | NOM | MINAL DIMS. | | JAMB 'JD3' MULL 'MD4 |
| WIDTH (W1) INCHES | WIDTH (W2) INCHES | FRAME HEIGHT INCHES | DOOR HEIGHT INCHES | EXT.(+) INT.(-) |
| | 30 | | | 90.0 |
| | 36 | | | 90.0 |
| | 42 | | 90.0 | |
| | 48 | 96 | | 90.0 |
| | 54 | | | 90.0 |
| | 60 | | | 90.0 |
| | 30 | | | 90.0 |
| | 36 | | | 90.0 |
| | 42 | 102 | | 90.0 |
| | 48 |] | | 90.0 |
| 96 | 54 | | 84 | 90.0 |
| 90 | 30 | | 84 | 90.0 |
| | 36 | 108 | | 90.0 |
| | 42 | | | 90.0 |
| | 48 | | | 89.4 |
| | 30 | | | 90.0 |
| | 36 | 114 | | 85.5 |
| | 42 | | | 81.5 |
| | 48 | | | 77.8 |
| | 30 | | | 79.1 |
| | 36 | 120 | | 75.3 |
| | 42 |] 120 | | 71.8 |
| | 48 | | | 68.7 |
| | 30 | | | 90.0 |
| | 36 | 1 | | 90.0 |
| | 42 | 102 | | 90.0 |
| | 48 | | | 90.0 |
| | 54 | | | 90.0 |
| | 30 |) | | 90.0 |
| | 36 | 108 | | 90.0 |
| | 42 | 108 | | 90.0 |
| 96 | 48 | | 90 | 90.0 |
| | 30 | |] | 90.0 |
| | 36 | 114 | | 89.5 |
| | 42 |] ''* | | 85.1 |
| | 48 | | | 81.1 |
| | 30 | | | 82.1 |
| | 36 | 120 | | 78.0 |
| | 42 |] 120 | | 74.3 |
| | | 7 | ı | r |

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 | 400 | | 90.0 | |
| | 42 | 108 | | 90.0 | |
| | 48 | | | 90.0 | |
| | 30 | | | 90.0 | |
| 96 | 36 | 114 | 96 | 90.0 | |
| 90 | 42 | 114 | | 89.8 | |
| | 48 | | | 85.3 | |
| | 30 | 120 | | 86.1 | |
| | 36 | | | 81.6 | |
| | 42 | | | 77.5 | |
| | 48 | | | 73.9 | |
| | 30 | | | 90.0 | |
| | 36 | 114 | | 90.0 | |
| | 42 | | | 90.0 | |
| 96 | 48 | | 102 | 90.0 | |
| 90 | 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 | 120 | | 90.0 | |
| | 48 | | | 85.1 | |
| | 30 | | | 57.0 | |
| 96 | 36 | 144 | 108 | 54.2 | |
| | 42 | | . 30 | 51.6 | |
| | 48 | | | 49.2 | |



| | DOOR MU | LLION LOAD | CAPACITY | - PSF |
|----------------------|----------------------|------------------------|-----------------------|--------------------------|
| | NOM | MINAL DIMS. | | JAMB 'JD3' MULL 'MD5' |
| WIDTH (W1) INCHES | WIDTH (W2) INCHES | FRAME HEIGHT INCHES | DOOR HEIGHT INCHES | EXT.(+) INT.(-) |
| | 30 | 78. | | 78.4 |
| 76 | 36 |] | | 73.8 |
| , o | 42 | 69.7 | | 69.7 |
| | 48 |] | 108 | 66.1 |
| | 30 | | | 73.1 |
| 84 | 36 | 144 | | 69.1 |
| UT | 42 |] '** | | 65.5 |
| | 48 |] | | 62.3 |
| | 30 |] | | 66.3 |
| 96 | 36 |] | | 63.0 |
| | 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 Ix ALUM + Ix STL X 2.9 | 20.3598 | |

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0517.02 21-0517.02

Expiration Date: 04/03/2023

By: Manuel Pres

Miami-Dade Product Control

DOOR-WINDOWALL TRANSITION MULLION



| | ALAL. | FARCENSE | |
|------|-------|----------|--|
| A PR | No. 3 | 81278 | |
| | FLO | rida | |

| date: 08-03-07 | رع | revisions: | | |
|----------------|----|------------|---|------------------|
| | 20 | no date | þ | by description |
| scale: - | | | | |
| | 70 | F 09.28.18 | | 144" HEIGHT AD |
| dr. by: TARIQ | O | G 11.12.20 | | UPDATED TO 20 |
| | I | н 05.10.21 | | NO CHANGE THI |
| cnk. by: | | | | |
| | | | | |

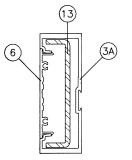
144" HEIGHT ADDED
UPDATED TO 2020 FBC
NO CHANGE THIS SHEET

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 2648100 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 | TEL. (305) 638-5158 | EL. (3

drawing no.

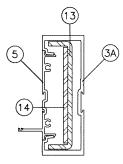
W07-60 sheet **6.2** of **12**



70.9

JAMB 'JD3'

| | Ix IN^4 | Sx IN^3 |
|----------|---------|---------|
| ALUMINUM | 6.570 | 2.7226 |
| STEEL | 2.7506 | 1.2224 |
| TOTAL | 14.5467 | |

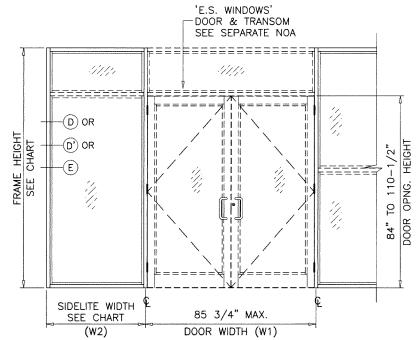


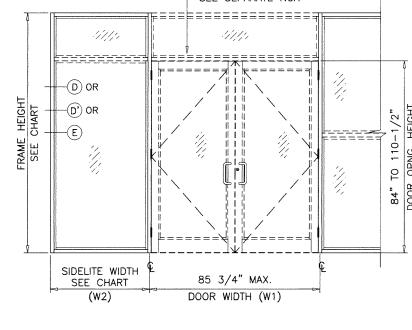
MULLION 'MD4'

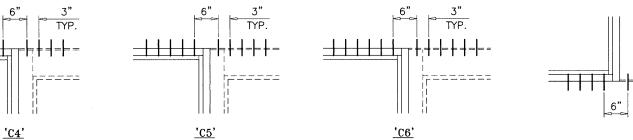
| | Ix IN ⁴ | Sx IN^ |
|---------------------------------|--------------------|--------|
| ALUMINUM | 6.7195 | 2.6757 |
| STEEL | 3.7533 | 1.668 |
| TOTAL ix ALUM + ix STL X 2.9 | 17.6041 | |

| | | R MULLION | | 'C4' | 'C5' | 'C6' | 11 |
|------------|------------|------------|-------------|---------|---------|---------|-----------|
| WIDTH (W1) | WIDTH (W2) | INAL DIMS. | DOOR HEIGHT | EXT.(+) | EXT.(+) | EXT.(+) | WI |
| INCHÈS | INCHES | INCHES | INCHES | INT.(-) | INT.(-) | INT.(-) | ┦┝ |
| | 30 | | | 89.6 | 90.0 | 90.0 | ! |
| | 36 | | | 85.0 | 90.0 | 90.0 | 11 |
| | 42 | | | 80.8 | 90.0 | 90.0 | |
| | 48 | 96 | | 77.0 | 90.0 | 90.0 | 11 |
| | 54 | | | 73.6 | 90.0 | 90.0 | 11 |
| | 60 | ļ | | 70.4 | 88.0 | 90.0 | |
| | 30 | 102 | | 86.0 | 90.0 | 90.0 | \prod |
| | 36 | | | 81.5 | 90.0 | 90.0 | 11 |
| | 42 | | | 77.4 | 90.0 | 90.0 |]] |
| 85-3/4 | 48 | | | 73.8 | 90.0 | 90.0 |] |
| | 54 | | 84 | 70.4 | 88.0 | 90.0 | 11 |
| 00 0/ + | 30 | 108 | | 82.7 | 90.0 | 90.0 | IJĹ |
| | 36 | | | 78.3 | 90.0 | 90.0 |] |
| | 42 | | | 74.3 | 90.0 | 90.0 | |
| | 48 | | | 70.8 | 88.4 | 90.0 |] [|
| | 30 | | | 79.7 | 90.0 | 90.0 | ء و |
| | 36 | | | 75.4 | 90.0 | 90.0 |] [] |
| | 42 | | | 71.5 | 89.4 | 90.0 | |
| | 48 |] | | 68.0 | 85.0 | 90.0 | Ш |
| | 30 | | | 76.9 | 90.0 | 90.0 | 11 |
| | 36 | 120 | | 72.6 | 90.0 | 90.0 | 1Γ |
| | 42 | 120 | | 68.9 | 86.1 | 90.0 | 11. |
| | 48 | 1 | | 65.4 | 81.8 | 90.0 | 8 |
| w | 30 | | | 84.1 | 90.0 | 90.0 | 11 |
| | 36 | 1 | | 79.7 | 90.0 | 90.0 | 1 _ |
| | 42 | 102 | | 75.8 | 90.0 | 90.0 | 1 |
| | 48 | 1 | | 72.3 | 90.0 | 90.0 | 1 |
| | 54 | | | 69.1 | 86.4 | 90.0 | 1 |
| | 30 | | 1 | 80.9 | 90.0 | 90.0 | 1 |
| | 36 | | | 76.7 | 90.0 | 90.0 | 1 |
| | 42 | 108 | | 72.9 | 90.0 | 90.0 | 1 |
| (. | 48 | | | 69.4 | 86.8 | 90.0 | 1 |
| 85-3/4 | 30 | | 90 | 78.0 | 90.0 | 90.0 | 1 |
| | 36 | 1 | | 73.9 | 90.0 | 90.0 | 1 |
| | 42 | 114 | | 70.1 | 87.7 | 90.0 | 1 |
| | 48 | 1 | | 66.8 | 83.5 | 90.0 | 1 |
| | 30 | | 1 | 75.3 | 90.0 | 90.0 | 1 |
| | 36 | 1 | | 71.2 | 89.1 | 90.0 | 1 |
| | 42 | 120 | | 67.6 | 84.5 | 90.0 | 1 |
| | 48 | 1 | | 64.3 | 80.4 | 90.0 | 1 |

| | D00 | R MULLION | HEAD ANCH | IOR LOAD CAP | ACITY - PSF | |] | |
|----------------------|----------------------|------------------------|-----------------------|--------------------|--------------------|--------------------|---------------|---|
| | NOM | MINAL DIMS. | | 'C4' | 'C5' | 'C6' | | |
| WIDTH (W1) INCHES | WIDTH (W2) INCHES | FRAME HEIGHT INCHES | DOOR HEIGHT INCHES | EXT.(+) INT.(-) | EXT.(+) INT.(-) | EXT.(+) INT.(-) | | |
| | 30 | | | 79.2 | 90.0 | 90.0 | | |
| | 36 | 108 | | 75.1 | 90.0 | 90.0 | ا ا | |
| | 42 | 114 | | 71.5 | 89.3 | 90.0 | ¥E | |
| | 48 | | | 68.1 | 85.2 | 90.0 | ALLOWED | |
| | 30 | | | 76.4 | 90.0 | 90.0 |] ₹ | |
| 85-3/4 | 36 | | 96 | 72.4 | 90.0 | 90.0 | 2 | |
| 03-3/4 | 42 | | 30 | 68.8 | 86.0 | 90.0 |] 돗 | |
| | 48 | | | 65.6 | 82.0 | 90.0 | HEIGHTS | |
| | 30 | | | | 73.8 | 90.0 | 90.0 | 1 |
| | 36 | | | 69.9 | 87.4 | 90.0 | A. | |
| | 42 | | | 66.4 | 83.0 | 90.0 | ıδ | |
| | 48 | | | 63.2 | 79.0 | 90.0 | WIDTHS | |
| | 30 | | | 74.9 | 90.0 | 90.0 |] ₹ | |
| | 36 | 114 | | 71.0 | 88.8 | 90.0 | 1 | |
| | 42 | 114 | | 67.6 | 84.5 | 90.0 | ĘĘ | |
| 85-3/4 | 48 | | 102 | 64.4 | 80.5 | 90.0 | BETWEEN | |
| 03-374 | 30 | | 102 | 72.4 | 90.0 | 90.0 |] m | |
| | 36 | 120 | | 68.6 | 85.7 | 90.0 | Z | |
| | 42 | | | 65.2 | 81.5 | 90.0 | ΙĔ | |
| | 48 | | | 62.1 | 77.7 | 90.0 |] \ | |
| | 30 | | | 70.4 | 88.0 | 90.0 | INTERPOLATION | |
| 85-3/4 | 36 | 120 | 110-1/2 | 66.8 | 83.5 | 90.0 | | |
| 05-3/4 | 42 |] '20 | 110-1/2 | 63.6 | 79.5 | 90.0 | Z | |
| | 48 | | | 60.7 | 75.9 | 90.0 | | |







'C4' AT SILL ALL CASES

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.



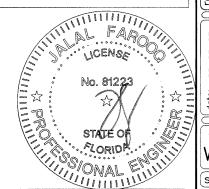
MAY 12 2021

Expiration Date: 04/03/2023

By: Manuel Pres

Miami-Dade Product Control

TRANSITION MULLION ANCHORS



| | قالعًا | - W L | - 0 | L |
|---------------|----------------|----------|---------------|---|
| | date: 08-03-07 | scale: - | dr. by: TARIQ | |
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(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

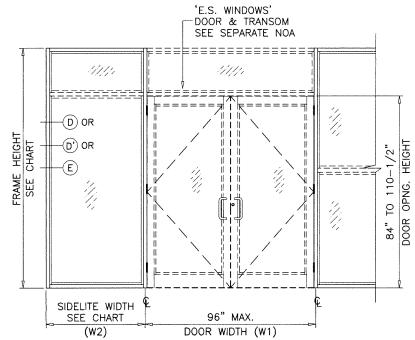
SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.)

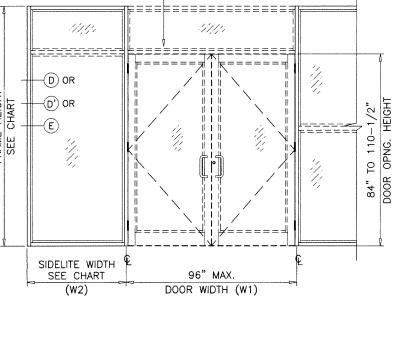
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (

sheet 7 of 12

| | | | | | PACITY - PSF | tact |
|----------------------|----------------------|------------------------|-----------------------|--------------------|--------------------|--------------------|
| | , | 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 | | | 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 48 | 102 | | 71.8 | 89.8 | 90.0 | |
| | 48 | | | | 68.7 | 85.8 |
| 06 | 54 | | - 84 | 65.8 | 82.2 | 90.0 |
| 96 | 30 | | | 76.2 | 90.0 | 90.0 |
| | 36 | 108 | | 72.4 | 90.0 | 90.0 |
| | 42 | | | 69.0 | 86.3 | 90.0 |
| | 48 | | | 65.9 | 82.4 | 90.0 |
| | 30 | 114 | | 73.4 | 90.0 | 90.0 |
| | 36 | | | 69.8 | 87.2 | 90.0 |
| | 42 | | | 66.4 | 83.0 | 90.0 |
| | 48 | | | 63.4 | 79.2 | 90.0 |
| | 30 | | | 70.9 | 88.6 | 90.0 |
| | 36 | 100 | | 67.3 | 84.1 | 90.0 |
| | 42 | 120 | | 64.0 | 80.0 | 90.0 |
| | 48 | 1 | | 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 | 1 | | 67.3 | 84.1 | 90.0 |
| | 54 | 1 | | 64.5 | 80.6 | 90.0 |
| | 30 | | | 74.5 | 90.0 | 90.0 |
| | 36 | 1 | | 70.9 | 88.6 | 90.0 |
| | 42 | 108 | | 67.6 | 84.5 | 90.0 |
| | 48 | 1 | | 64.6 | 80.8 | 90.0 |
| 96 | 30 | | 90 | 71.8 | 89.8 | 90.0 |
| | 36 | 1 | | 68.3 | 85.4 | 90.0 |
| | 42 | 114 | | 65.1 | 81.4 | 90.0 |
| | 48 | 1 | | 62.2 | 77.7 | 90.0 |
| | 30 | | | 69.4 | 86.7 | 90.0 |
| | 36 | 1 | | 65.9 | 82.4 | 90.0 |
| | 42 | 120 | | 62.8 | 78.5 | 90.0 |
| | 48 | 1 | | 59.9 | 74.9 | 89.9 |

| | D00 | R MULLION | HEAD ANCH | IOR LOAD CAP | ACITY - PSF | |
|----------------------|----------------------|---------------------|-----------------------|--------------------|--------------------|--------------------|
| | 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 | 1 | | 58.9 | 73.6 | 88.3 |
| 96 | 30 | 114 | - 102 | 68.8 | 86.1 | 90.0 |
| | 36 | | | 65.6 | 82.0 | 90.0 |
| | 42 | | | 62.6 | 78.3 | 90.0 |
| | 48 | | | 59.9 | 74.9 | 89.9 |
| | 30 | 120 | | 66.6 | 83.2 | 90.0 |
| | 36 | | | 63.4 | 79.2 | 90.0 |
| | 42 | | | 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 |] '** | | 52.3 | 65.4 | 78.5 |
| | 48 | 1 | | 49.9 | 62.4 | 74.9 |





PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0517.02

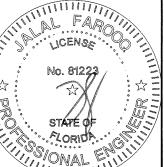
Expiration Date: 04/03/2023

By: Manuel Pres

Miami-Dade Product Control

TRANSITION MULLION ANCHORS

MAY 12 2021



| a 2 3 | | by description | CHART ADDED | UPDATED TO 2020 FBC | NO CHANGE THIS SHEET | |
|------------------|------------|------------------|-------------|---------------------|----------------------|--|
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| \mathbf{S}^{-} | revisions: | no date | F 09.28.18 | G 11.12.20 | H 05.10.21 | |
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| | $ $ \leq | 57 | 57 | | ~ | |
| | 3-07 | | | ~ | | |

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

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 9360 SUNSET DRIVE, SUITE 220

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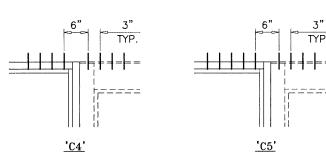
 TEL. (305) 264-8100
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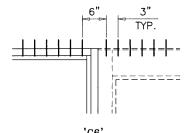
| SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.) | E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 | TEL. (305) 638-5151 FAX. (305) 638-5158 |

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| 08-03-07 | .: | by: TARIQ | by: | | |
| date: | scale: | đ. | chk. | | |
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drawing no.

W07-60 sheet **7.1**of **12**





<u>'C6'</u>

'C4' AT SILL ALL CASES

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.

