



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

NOTICE OF ACCEPTANCE (NOA)

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

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

SCOPE:

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

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

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

DESCRIPTION: Series "ECO-Narrow" Aluminum Window Wall System – S.M.I.

APPROVAL DOCUMENT: Drawing No. **21-35D**, titled "Series-Narrow Alum Window Wall Sys. (S.M.I.)" sheets 1 through 17 of 17, dated 04/27/21, with revision A dated 08/25/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Approval Stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

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

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

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

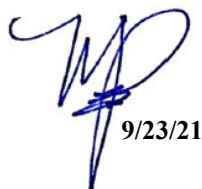
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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




9/23/21

NOA No. 21-0526.01
Expiration Date: September 30, 2026
Approval Date: September 30, 2021
Page 1

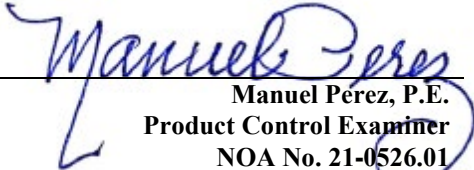
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **21-35D**, titled "Series-Narrow Alum Window Wall Sys. (S.M.I.)" sheets 1 through 17 of 17, dated 04/27/21, with revision A dated 08/25/21, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 250 HR alum. horizontal rolling window (mockups #1 and #1B), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8035**, dated 01/04/21, signed and sealed by Rafael E. Droz-Seda, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Drop Load Test, per ANSI Z97.1, Class A, 400 ft-lb energy impact.
along with marked-up drawings and installation diagram of a series "Narrow" alum. window wall system (mockup #2), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8034**, dated 01/04/21, signed and sealed by Rafael E. Droz-Seda, P.E.
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Drop Load Test, per ANSI Z97.1, Class A, 400 ft-lb energy impact.
along with marked-up drawings and installation diagram of a series "Narrow" alum. window wall system (mockup #3), prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-20-8048**, dated 01/04/21, signed and sealed by Rafael E. Droz-Seda, P.E.


Manuel Pérez, P.E.
Product Control Examiner
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B. TESTS (CONTINUED)

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

C. CALCULATIONS

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

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

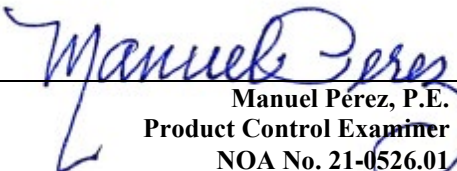
1. Notice of Acceptance No. **20-0915.22** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**” dated 11/19/20, expiring on 07/08/24.

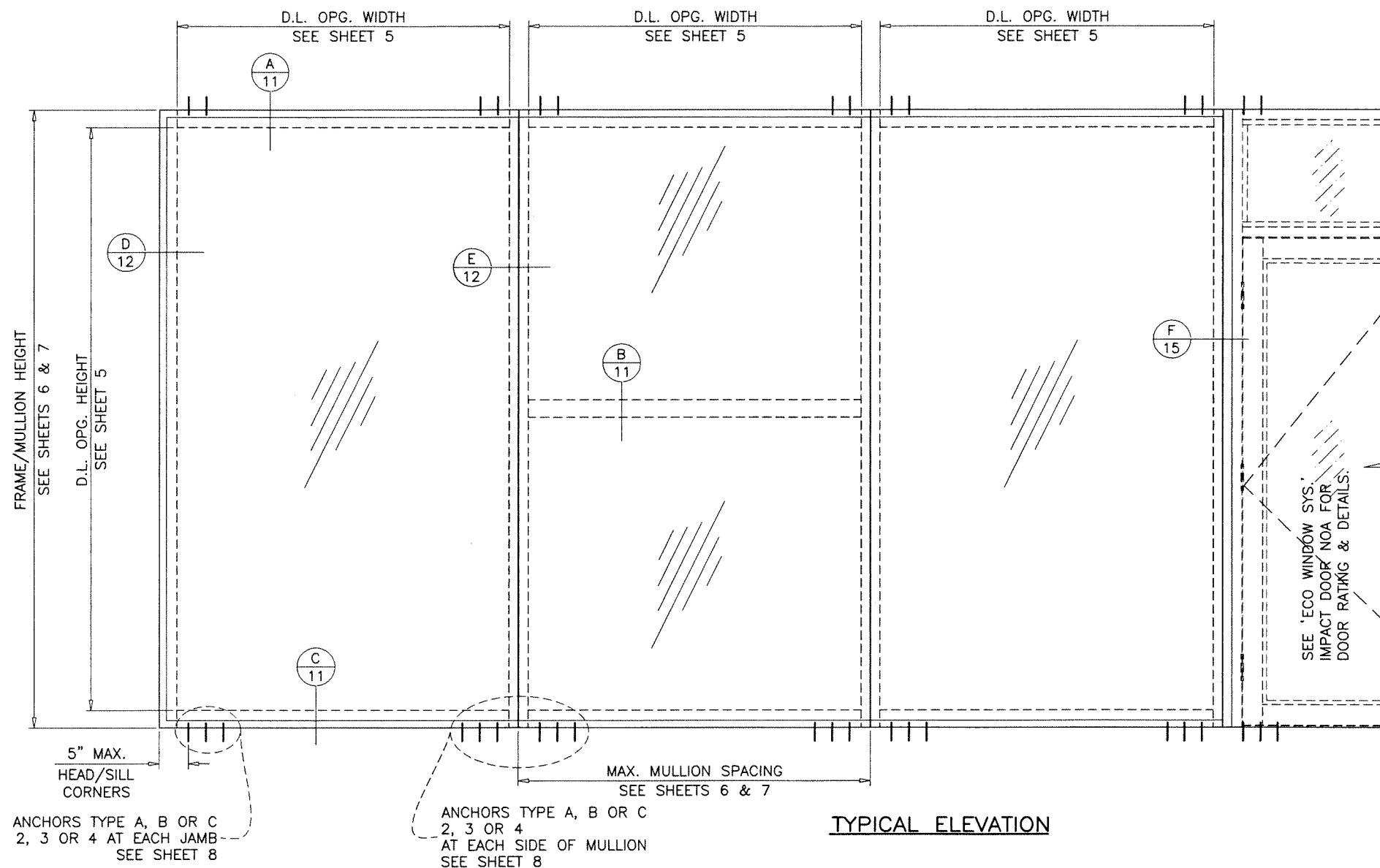
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)** and of no financial interest, dated April 12, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Proposal No. **19-1128** issued by the Product Control Section, dated December 11, 2019, signed by Manuel Perez, P.E.

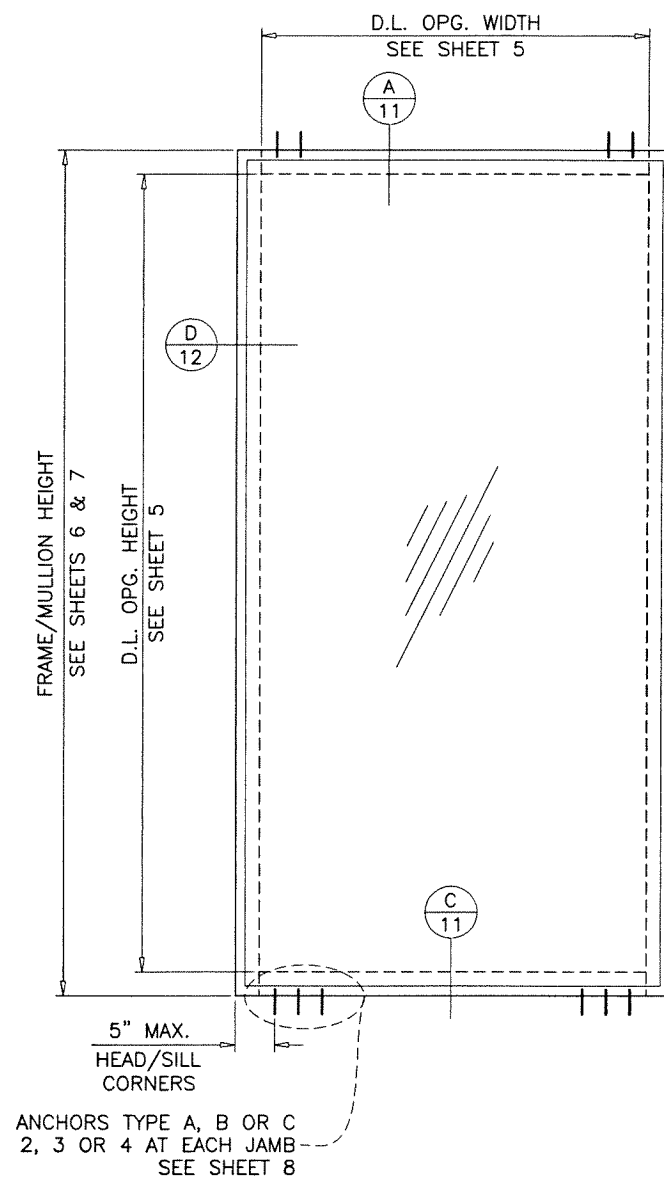
G. OTHERS

1. None.


Manuel Pérez, P.E.
Product Control Examiner
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TYPICAL ELEVATION



SERIES-NARROW ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPR'D SMALL MISSILE IMPACT RESISTANT DOORS.

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE 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)'.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

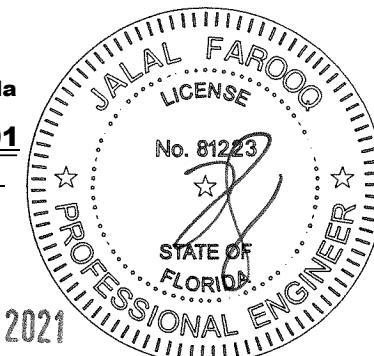
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** CHECK GLASS CAPACITY TABLE ON SHEET 5 FOR GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) AND PRESSURE CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP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

WINDOW WALL SYSTEM COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SMALL MISSILE IMPACT

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **21-0526.01**
Approval Date: **09/30/2021**
By: *Manuel Perez*
Miami-Dade Product Control



SEP 16 2021

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

STORE 21-35D-ECO

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

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

revisions:

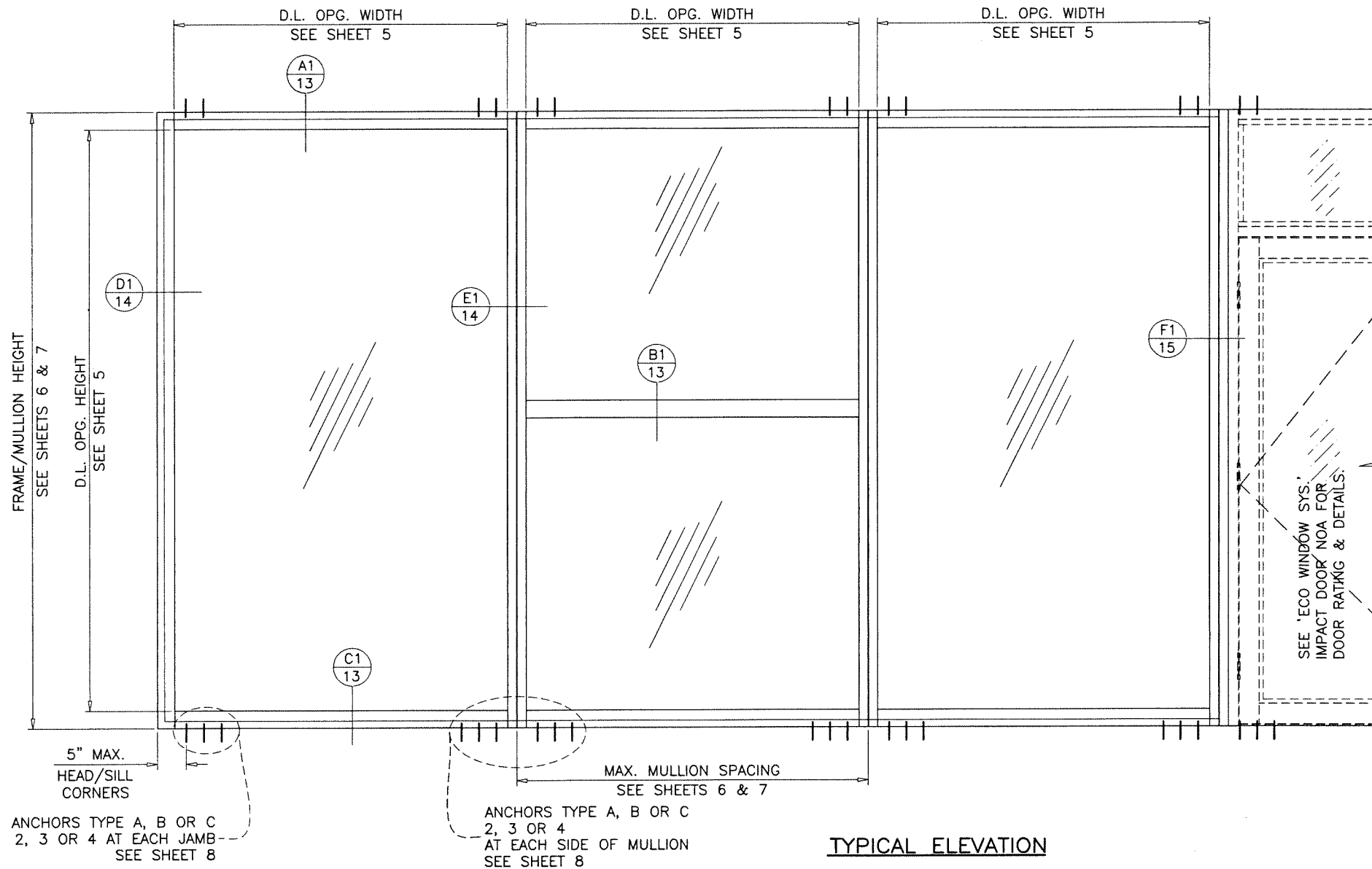
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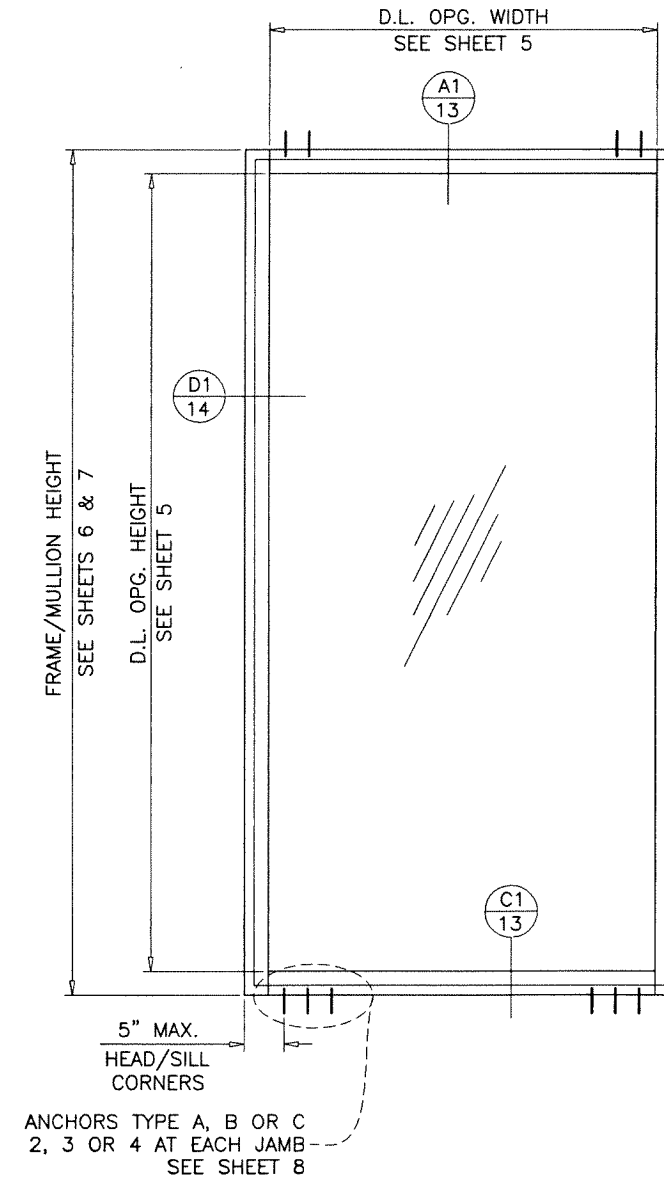
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21-35D

sheet 1 of 17

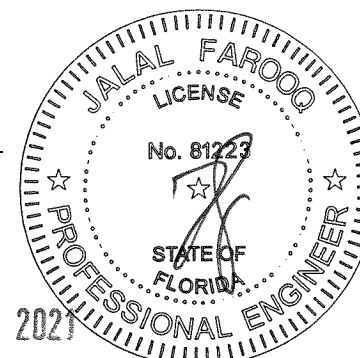
SEP 16 2021



TYPICAL ELEVATION



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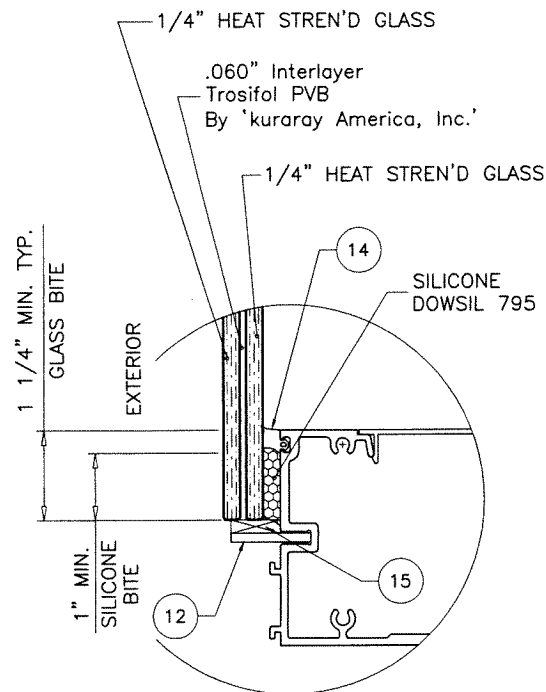
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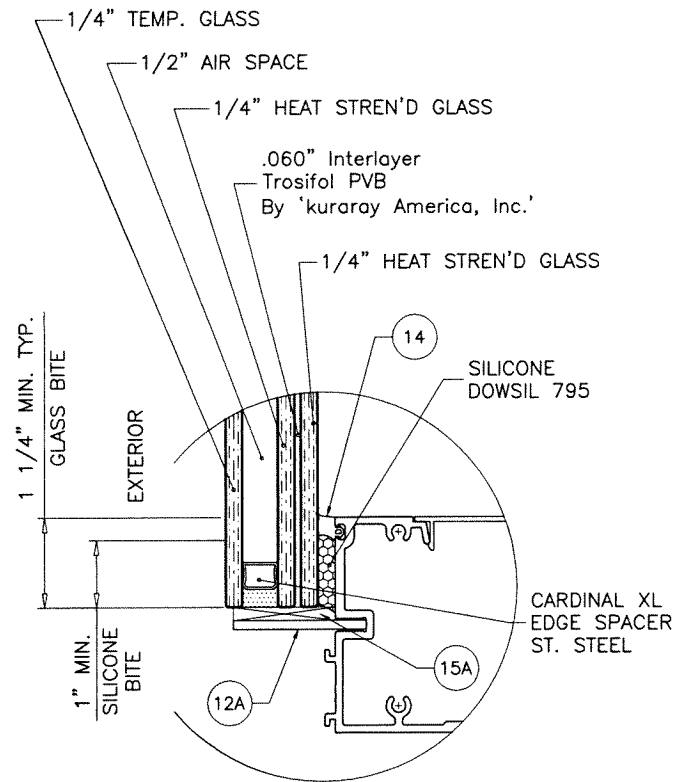
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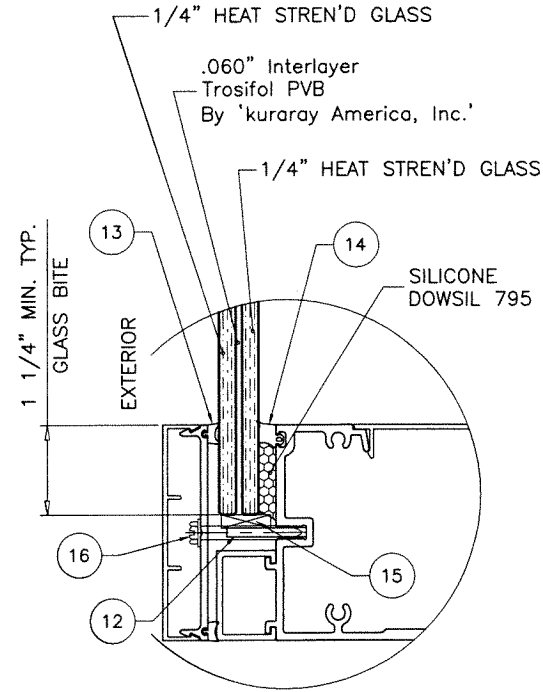
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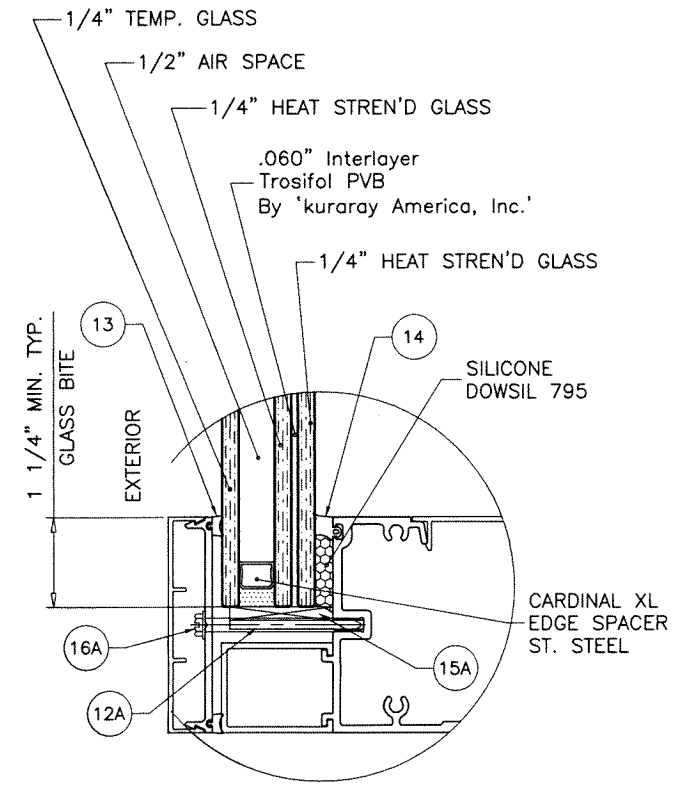
GLAZING TYPE 'A'
9/16" OVERALL LAM. GLASS
(SSG SYSTEM)



GLAZING TYPE 'Ai'
1-5/16" OVERALL INSUL. LAM. GLASS
(SSG SYSTEM)

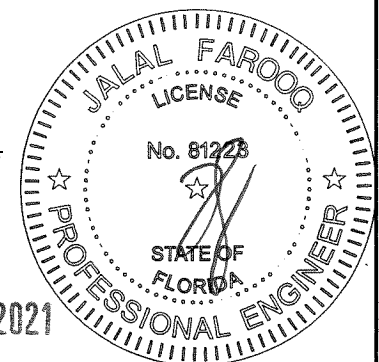


GLAZING TYPE 'A'
9/16" OVERALL LAM. GLASS
(CAPTURED SYSTEM)



GLAZING TYPE 'Ai'
1-5/16" OVERALL INSUL. LAM. GLASS
(CAPTURED SYSTEM)

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Miami-Dade Product Control



GLASS

SEP 16 2021

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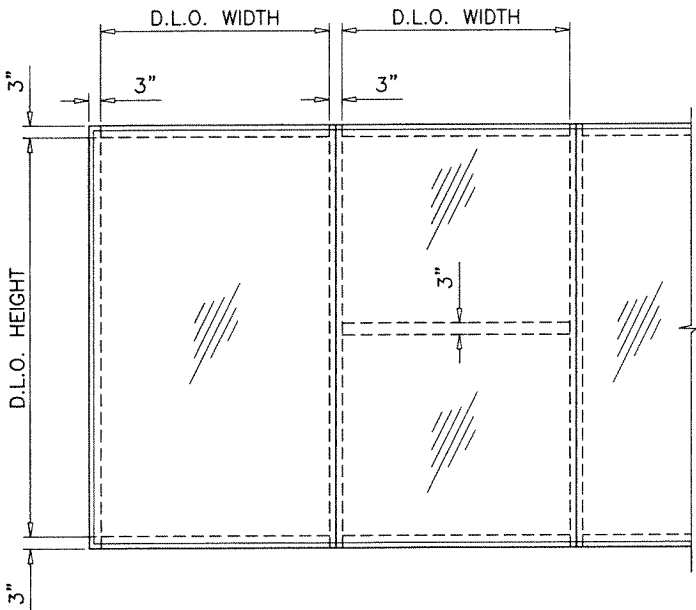
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 21-35D-ECO

SERIES-NARROW ALUM WINDOW WALL SYS. (S.M.I.)
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TEL. (305) 885-5299 FAX (305) 885-5902

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drawing no.
21-35D
sheet 3 of 17

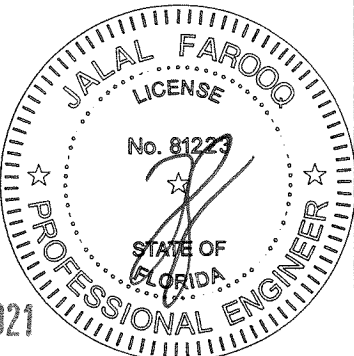
GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE	
		'A' & 'Ai'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
42"	84"	100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3
42"	90"	100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3
42"	96"	100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3
42"	102"	100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3
42"	108"	100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3
42"	114"	100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3
42"	120"	100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
66"		90.9	90.9
72"		83.3	83.3



INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

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

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 21-0526.01
Approval Date: 09/30/2021
By: Manuel Perez
Miami-Dade Product Control



GLASS

SEP 16 2021

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9360 SUNSET DRIVE, SUITE 220
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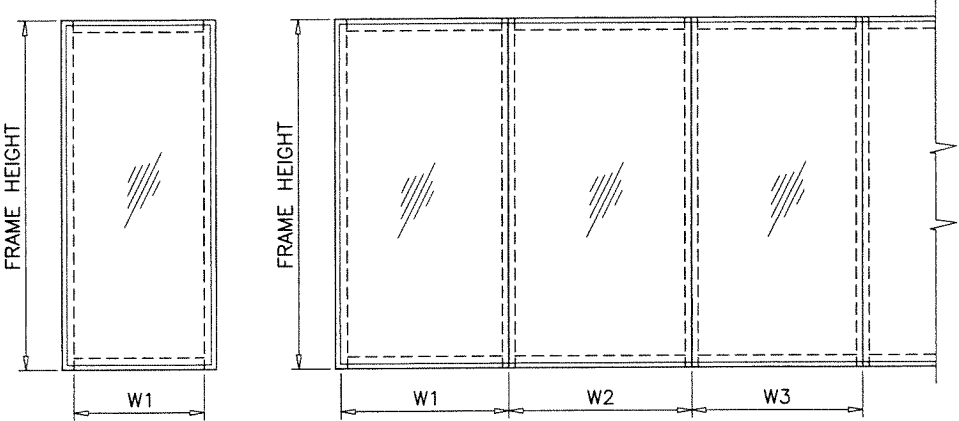
drawing no.
21-35D
sheet 5 of 17

STORE 21-35D-ECO

JAMB & MULLION LOAD CAPACITY - PSF									
JAMBS & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J'		MULL 'M1'		MULL 'M2'		MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	108"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	95.5	95.5	100.0	100.0	100.0	100.0
30"	108"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	96.5	96.5	100.0	100.0	100.0	100.0
60"		100.0	100.0	89.1	89.1	100.0	100.0	100.0	100.0
66"		100.0	100.0	83.1	83.1	100.0	100.0	100.0	100.0
30"	114"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	89.5	89.5	100.0	100.0	100.0	100.0
54"		100.0	100.0	81.1	81.1	97.9	97.9	100.0	100.0
60"		100.0	100.0	74.7	74.7	90.2	90.2	100.0	100.0
66"		100.0	100.0	74.7	74.7	90.2	90.2	100.0	100.0
30"	120"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	98.6	98.6	100.0	100.0	100.0	100.0
42"		100.0	100.0	85.7	85.7	100.0	100.0	100.0	100.0
48"		100.0	100.0	76.2	76.2	91.9	91.9	100.0	100.0
54"		100.0	100.0	68.9	68.9	83.2	83.2	97.5	97.5
60"		100.0	100.0	63.3	63.3	76.4	76.4	89.5	89.5
66"		100.0	100.0	63.3	63.3	76.4	76.4	89.5	89.5

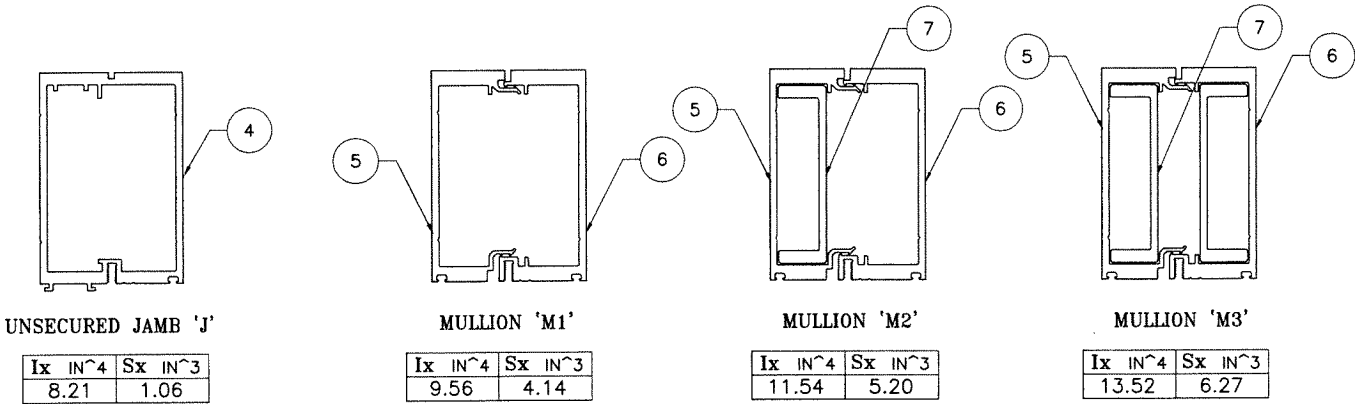
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

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

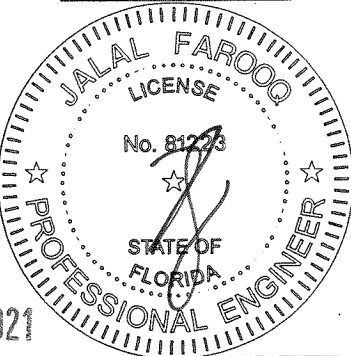


WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 21-0526.01
Approval Date: 09/30/2021
By: *Manuel Perez*
Miami-Dade Product Control



SEP 16 2021

MULLIONS

SERIES-NARROW ALUM WINDOW WALL SYS. (S.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

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

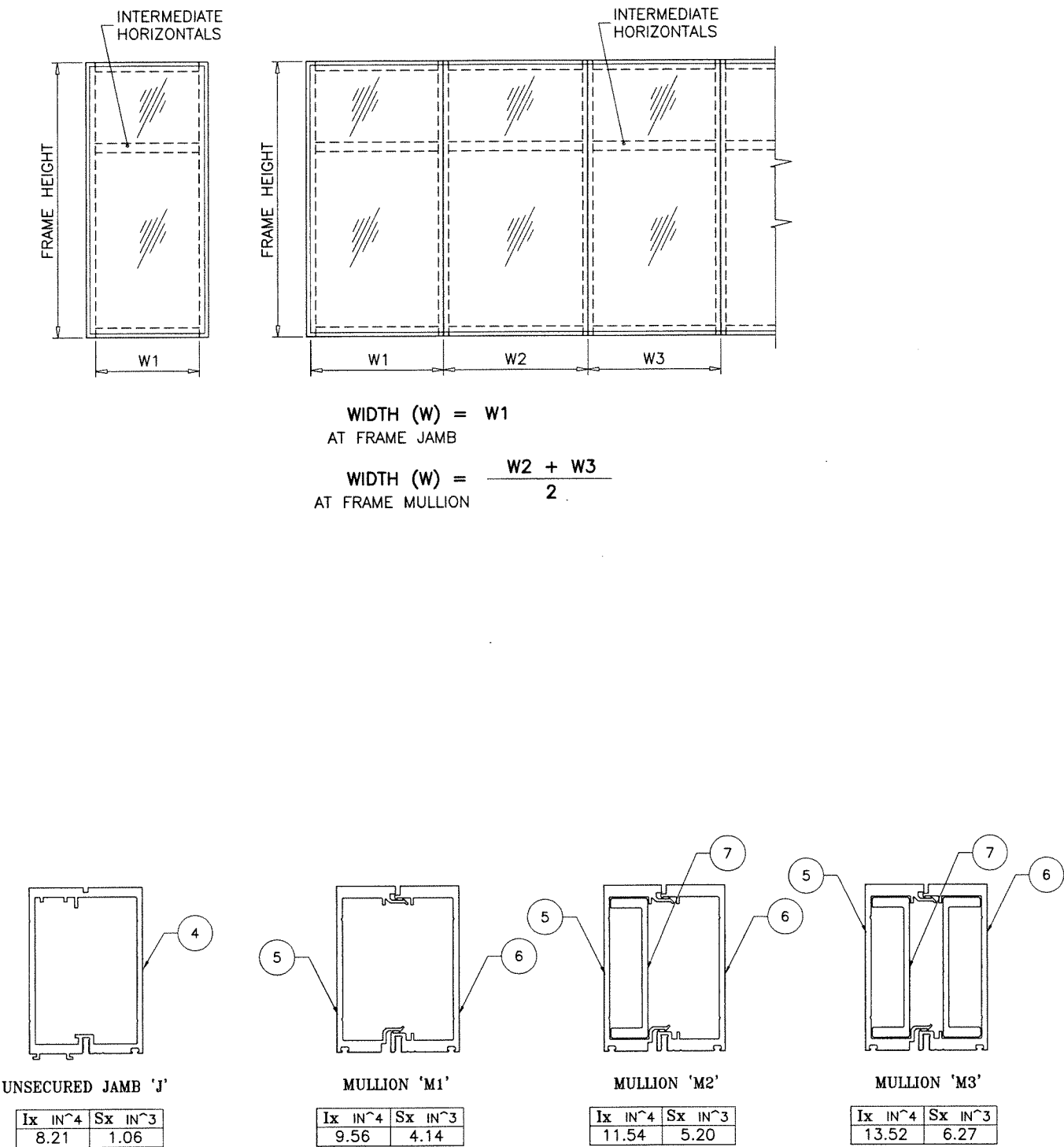
revisions:	no	date	by	description
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date:	04-27-21	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	21-35D	sheet	6 of 17	

STORE\21-35D-ECO

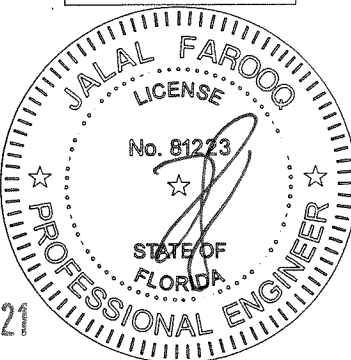
JAMB & MULLION LOAD CAPACITY - PSF									
JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J'		MULL 'M1'		MULL 'M2'		MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	108"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	90.6	90.6	100.0	100.0	100.0	100.0
30"	114"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	98.1	98.1	100.0	100.0	100.0	100.0
60"		100.0	100.0	87.2	87.2	100.0	100.0	100.0	100.0
66"		100.0	100.0	78.5	78.5	94.7	94.7	100.0	100.0
30"	120"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	95.3	95.3	100.0	100.0	100.0	100.0
54"		100.0	100.0	83.4	83.4	100.0	100.0	100.0	100.0
60"		100.0	100.0	74.2	74.2	89.5	89.5	100.0	100.0
66"		100.0	100.0	66.7	66.7	80.6	80.6	94.4	94.4
30"	126"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	95.4	95.4	100.0	100.0	100.0	100.0
54"		100.0	100.0	81.7	81.7	98.7	98.7	100.0	100.0
60"		100.0	100.0	71.5	71.5	86.3	86.3	100.0	100.0
66"		100.0	100.0	63.6	63.6	76.7	76.7	89.9	89.9
72"		98.3	98.3	57.2	57.2	69.1	69.1	80.9	80.9

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

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



PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 21-0526.01
Approval Date: 09/30/2021
By: *Manuel Perez*
Miami-Dade Product Control



SEP 16 2021

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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SERIES-NARROW ALUM WINDOW WALL SYS. (S.M.I.)

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

revisions:

no	date	by	description
1	08/25/21	A	REV. PER RER COMMENTS

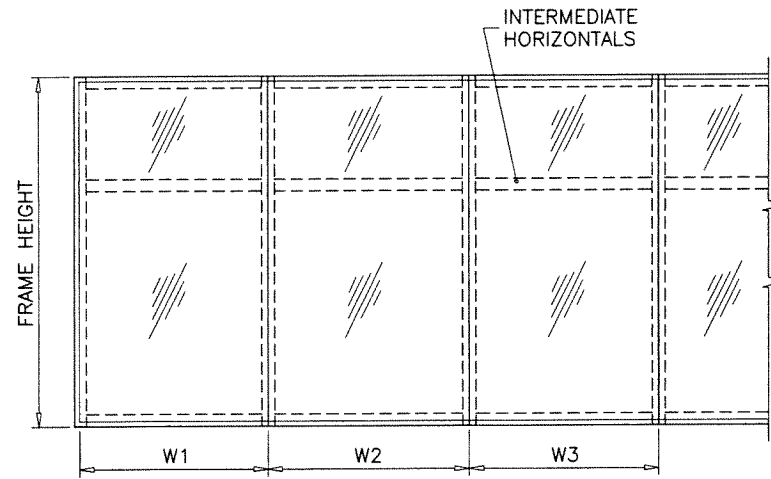
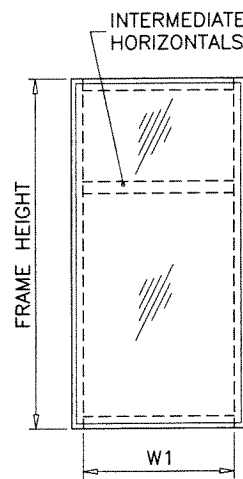
date: 04-27-21
scale: -
dr. by: TARIQ
chk. by:

drawing no. 21-35D
sheet 7 of 17

STORE 21-35D-ECO

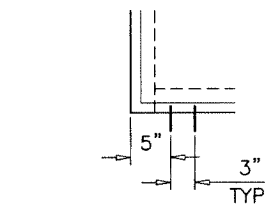
ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)										
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	C2	C3	C4
30"	84"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		87.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		76.9	100.0	100.0	94.3	100.0	100.0	100.0	100.0	100.0
54"		68.3	100.0	100.0	83.8	100.0	100.0	100.0	100.0	100.0
60"		61.5	92.2	100.0	75.4	100.0	100.0	91.0	100.0	100.0
66"		55.9	83.8	100.0	68.6	100.0	100.0	82.7	100.0	100.0
72"		51.2	76.9	100.0	62.9	94.3	100.0	75.8	100.0	100.0
30"	90"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		95.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		82.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		71.7	100.0	100.0	88.0	100.0	100.0	100.0	100.0	100.0
54"		63.8	95.6	100.0	78.2	100.0	100.0	94.3	100.0	100.0
60"		57.4	86.1	100.0	70.4	100.0	100.0	84.9	100.0	100.0
66"		52.2	78.3	100.0	64.0	96.0	100.0	77.2	100.0	100.0
72"		47.8	71.7	95.6	58.7	88.0	100.0	70.8	100.0	100.0
30"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		89.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		76.9	100.0	100.0	94.3	100.0	100.0	100.0	100.0	100.0
48"		67.3	100.0	100.0	82.5	100.0	100.0	99.5	100.0	100.0
54"		59.8	89.7	100.0	73.3	100.0	100.0	88.4	100.0	100.0
60"		53.8	80.7	100.0	66.0	99.0	100.0	79.6	100.0	100.0
66"		48.9	73.4	97.8	60.0	90.0	100.0	72.4	100.0	100.0
72"		44.8	67.3	89.7	55.0	82.5	100.0	66.3	100.0	100.0
30"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		84.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		72.3	100.0	100.0	88.7	100.0	100.0	100.0	100.0	100.0
48"		63.3	94.9	100.0	77.6	100.0	100.0	93.6	100.0	100.0
54"		56.3	84.4	100.0	69.0	100.0	100.0	83.2	100.0	100.0
60"		50.6	76.0	100.0	62.1	93.2	100.0	74.9	100.0	100.0
66"		46.0	69.0	92.1	56.5	84.7	100.0	68.1	100.0	100.0
72"		42.0	63.0	86.0	51.0	78.0	100.0	63.0	100.0	100.0
30"	108"	95.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		79.7	100.0	100.0	97.8	100.0	100.0	100.0	100.0	100.0
42"		68.3	100.0	100.0	83.8	100.0	100.0	100.0	100.0	100.0
48"		59.8	89.7	100.0	73.3	100.0	100.0	88.4	100.0	100.0
54"		53.1	79.7	100.0	65.2	97.8	100.0	78.8	100.0	100.0
60"		47.8	71.7	95.6	58.7	88.0	100.0	70.8	100.0	100.0
66"		43.5	65.2	86.9	53.3	80.0	100.0	64.3	96.5	100.0
72"		40.0	60.0	82.0	49.0	75.0	100.0	60.0	92.0	100.0
30"	114"	90.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		75.5	100.0	100.0	92.6	100.0	100.0	100.0	100.0	100.0
42"		64.7	97.1	100.0	79.4	100.0	100.0	95.8	100.0	100.0
48"		56.6	84.9	100.0	69.5	100.0	100.0	83.8	100.0	100.0
54"		50.3	75.5	100.0	61.8	92.6	100.0	74.5	100.0	100.0
60"		45.3	68.0	90.6	55.6	83.4	100.0	67.0	100.0	100.0
30"	120"	86.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		71.7	100.0	100.0	88.0	100.0	100.0	100.0	100.0	100.0
42"		61.5	92.2	100.0	75.4	100.0	100.0	91.0	100.0	100.0
48"		53.8	80.7	100.0	66.0	99.0	100.0	79.6	100.0	100.0
54"		47.8	71.7	95.6	58.7	88.0	100.0	70.8	100.0	100.0
60"		43.0	64.6	86.1	52.8	79.2	100.0	63.7	95.5	100.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

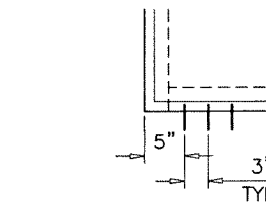


WIDTH (W) = W1
AT FRAME JAMB

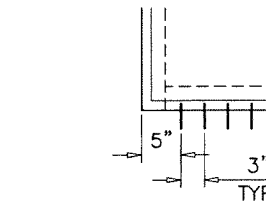
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



A2, B2, C2



A3, B3, C3



A4, B4, C4

ANCHORS TYPES: SEE SHEET 11 FOR DESCRIPTION

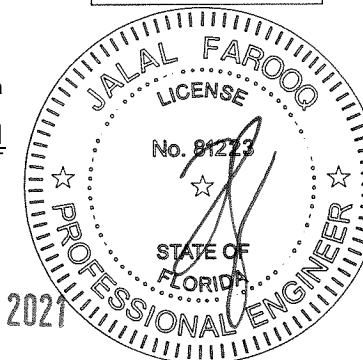
A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

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

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

ANCHORS

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **21-0526.01**
Approval Date: **09/30/2021**
By: *Manuel Perez*
Miami-Dade Product Control



SEP 16 2021

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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STORE 21-35D-ECO

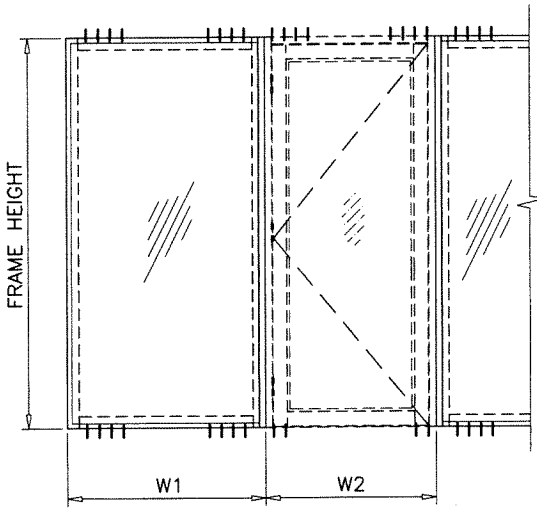
SERIES-NARROW ALUM WINDOW WALL SYS. (S.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL (305) 885-5299 FAX (305) 885-5902

revisions:		no	date	by	description
		A	08.25.21		NO CHANGE THIS SHEET
date:		04-27-21			
scale:		-			
dr. by:		TARIQ			
chk. by:					
drawing no.		21-35D			
sheet		8 of 17			

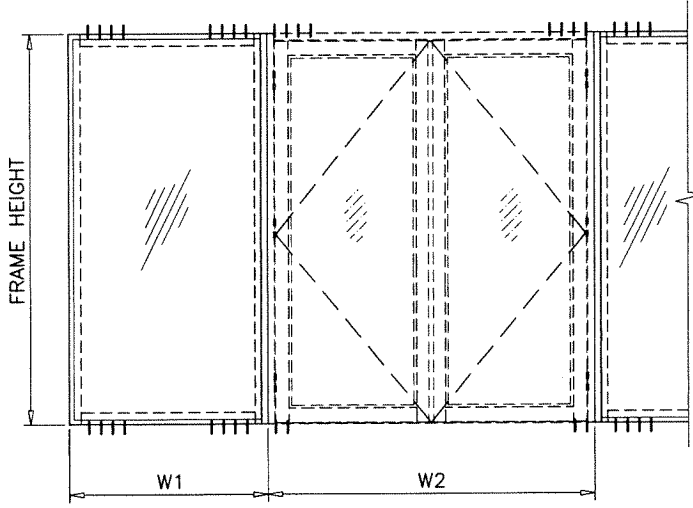
DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.		DOOR MULL 'DM2'		DOOR MULL 'DM3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	90"	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
30"	96"	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
30"	102"	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0
30"	108"	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0
66"		94.7	94.7	100.0	100.0
30"	114"	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0
48"		97.0	97.0	100.0	100.0
54"		90.8	90.8	100.0	100.0
60"		85.4	85.4	100.0	100.0
66"					
30"	120"	100.0	100.0	100.0	100.0
36"		96.3	96.3	100.0	100.0
42"		89.3	89.3	100.0	100.0
48"		83.2	83.2	99.3	99.3
54"		77.9	77.9	93.0	93.0
60"		73.2	73.2	87.4	87.4
66"					

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

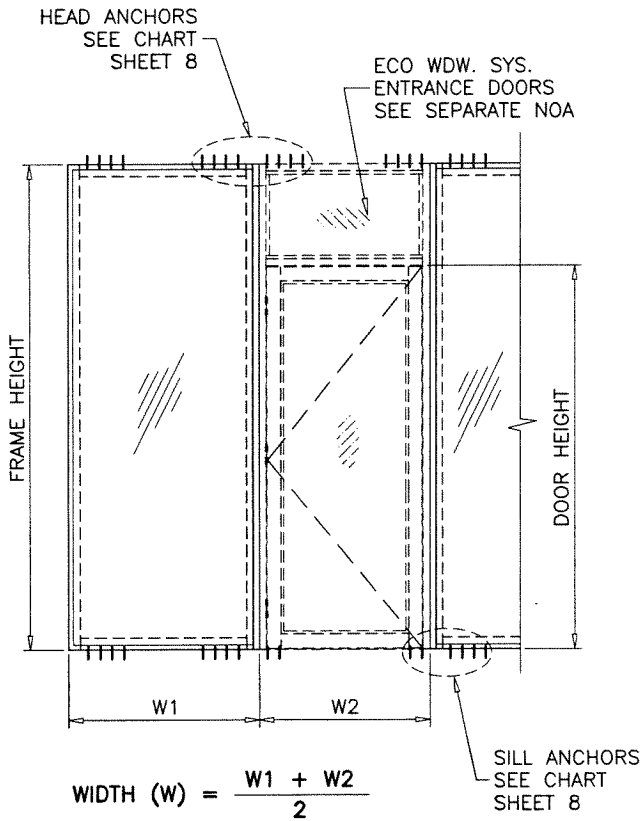
VALUES SHOWN IN CHART ABOVE APPLY TO BOTH STRUCTURAL GLAZED OPTION (SHOWN), AS WELL AS CAPTURED GLAZED OPTION APPLICATIONS.



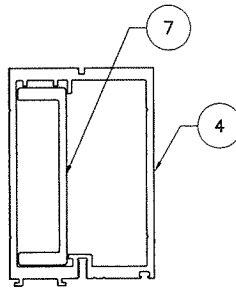
WIDTH (W) = $\frac{W1 + W2}{2}$



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

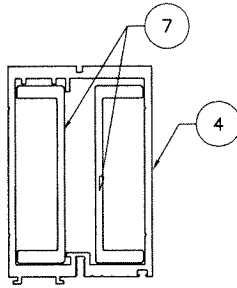


WIDTH (W) = $\frac{W1 + W2}{2}$



MULLION 'DM2'

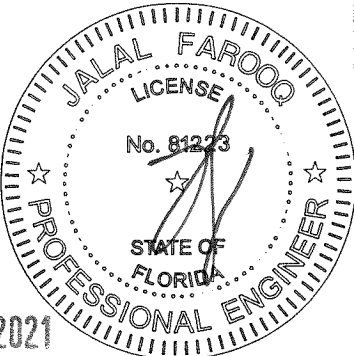
Ix IN^4	Sx IN^3
10.19	4.56



MULLION 'DM3'

Ix IN^4	Sx IN^3
12.17	5.62

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. **21-0526.01**
Approval Date: **09/30/2021**
By: *Manuel Perez*
Miami-Dade Product Control



SEP 16 2021

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL (305) 264-8100 FAX (305) 262-6978
STORE 21-35D-ECO

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

ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
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revisions:

no	date	by	description
1	08/25/21	A	REV. PER RER COMMENTS

date: 04-27-21
scale: -
dr. by: TARIQ
chk. by:

drawing no. **21-35D**
sheet 9 of 17

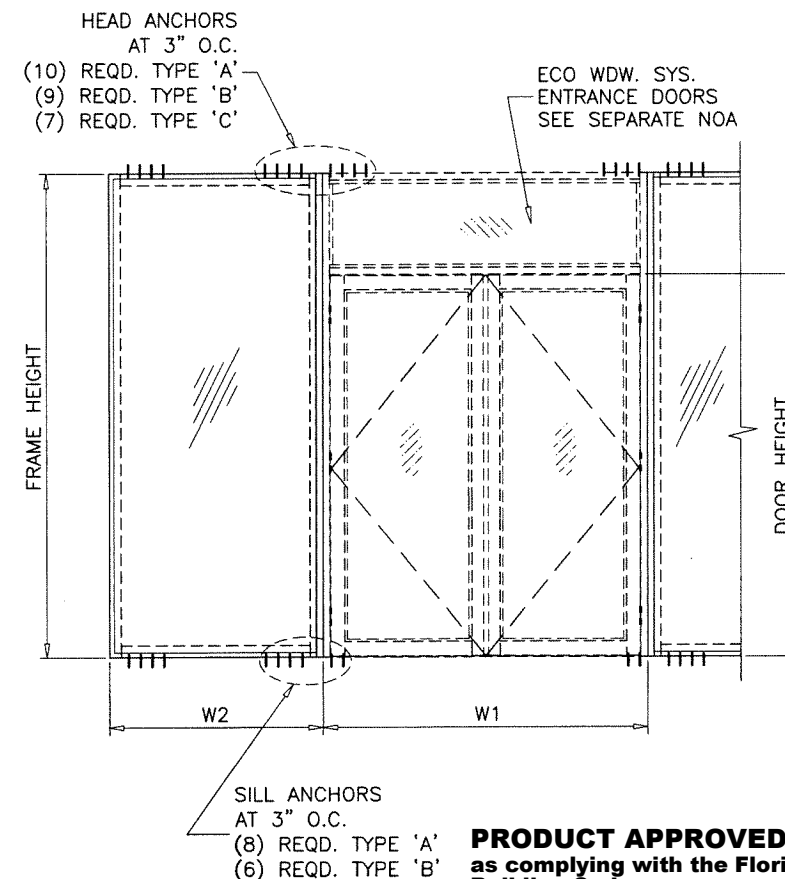
DOOR MULLION LOAD CAPACITY – PSF							
NOMINAL DIMS.				DOOR MULL 'DM2'		DOOR MULL 'DM3'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
76	30	102	84"	100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			100.0	100.0	100.0	100.0
	54			100.0	100.0	100.0	100.0
	60			100.0	100.0	100.0	100.0
	66			100.0	100.0	100.0	100.0
	30	108		100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			100.0	100.0	100.0	100.0
	54			94.4	94.4	100.0	100.0
	60			89.4	89.4	100.0	100.0
	66			84.9	84.9	100.0	100.0
	30	114		99.1	99.1	100.0	100.0
	36			92.7	92.7	100.0	100.0
	42			87.0	87.0	100.0	100.0
	48			82.0	82.0	97.9	97.9
	54			77.6	77.6	92.6	92.6
	60			73.6	73.6	87.8	87.8
	30	120		82.0	82.0	97.9	97.9
	36			76.8	76.8	91.7	91.7
	42			72.3	72.3	86.3	86.3
	48			68.2	68.2	81.5	81.5
	54			64.6	64.6	77.2	77.2
	60			63.7	63.7	76.1	76.1
76	30	102	90"	100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			100.0	100.0	100.0	100.0
	54			100.0	100.0	100.0	100.0
	60			100.0	100.0	100.0	100.0
	66			100.0	100.0	100.0	100.0
	30	108		100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			100.0	100.0	100.0	100.0
	54			99.2	99.2	100.0	100.0
	60			93.7	93.7	100.0	100.0
	66			88.7	88.7	100.0	100.0
	30	114		100.0	100.0	100.0	100.0
	36			97.8	97.8	100.0	100.0
	42			91.5	91.5	100.0	100.0
	48			86.0	86.0	100.0	100.0
	54			81.1	81.1	96.9	96.9
	60			76.8	76.8	91.7	91.7
	30	120		86.2	86.2	100.0	100.0
	36			80.5	80.5	96.1	96.1
	42			75.5	75.5	90.2	90.2
	48			71.1	71.1	84.9	84.9
	54			67.2	67.2	80.3	80.3
	60			63.7	63.7	76.1	76.1

DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				DOOR MULL 'DM2'		DOOR MULL 'DM3'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
76	30	102	96	100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			100.0	100.0	100.0	100.0
	54			100.0	100.0	100.0	100.0
	60			100.0	100.0	100.0	100.0
	66			100.0	100.0	100.0	100.0
	30	108		100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			100.0	100.0	100.0	100.0
	54			100.0	100.0	100.0	100.0
	60			97.9	97.9	100.0	100.0
	66			92.5	92.5	100.0	100.0
	30	114		100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			96.6	96.6	100.0	100.0
	48			90.4	90.4	100.0	100.0
	54			85.0	85.0	100.0	100.0
	60			80.3	80.3	95.8	95.8
	30	120		91.2	91.2	100.0	100.0
	36			84.8	84.8	100.0	100.0
	42			79.3	79.3	94.7	94.7
	48			74.5	74.5	89.0	89.0
54	70.2		70.2	83.9	83.9		
60	66.4		66.4	79.3	79.3		
76	30	108	102"	100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			100.0	100.0	100.0	100.0
	54			100.0	100.0	100.0	100.0
	60			100.0	100.0	100.0	100.0
	66			95.5	95.5	100.0	100.0
	30	114		100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			94.7	94.7	100.0	100.0
	54			88.8	88.8	100.0	100.0
	60			83.6	83.6	99.9	99.9
	30	120		96.6	96.6	100.0	100.0
	36			89.5	89.5	100.0	100.0
	42			83.4	83.4	99.6	99.6
	48			78.1	78.1	93.3	93.3
	54			73.4	73.4	87.7	87.7
60	69.3		69.3	82.7	82.7		

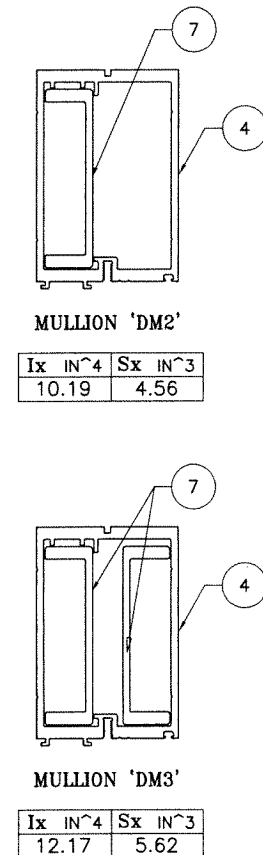
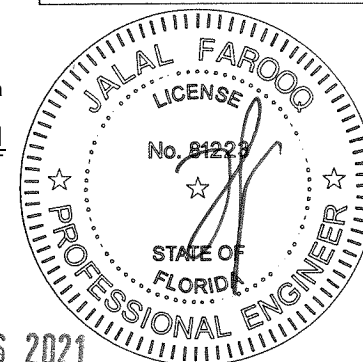
VALUES SHOWN IN CHART ABOVE APPLY TO BOTH STRUCTURAL GLAZED OPTION (SHOWN), AS WELL AS CAPTURED GLAZED OPTION APPLICATIONS.

DOOR MULLION LOAD CAPACITY - PSF							
NOMINAL DIMS.				DOOR MULL 'DM2'		DOOR MULL 'DM3'	
WIDTH (W1) INCHES	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(−)	EXT.(+)	INT.(−)
76	30	114	108	100.0	100.0	100.0	100.0
	36			100.0	100.0	100.0	100.0
	42			100.0	100.0	100.0	100.0
	48			98.1	98.1	100.0	100.0
	54			91.8	91.8	100.0	100.0
	60			86.2	86.2	100.0	100.0
	30	120		100.0	100.0	100.0	100.0
	36			94.1	94.1	100.0	100.0
	42			87.4	87.4	100.0	100.0
	48			81.6	81.6	97.4	97.4
	54			76.5	76.5	91.3	91.3
	60			72.0	72.0	85.9	85.9
76	30	120	114	100.0	100.0	100.0	100.0
	36			97.7	97.7	100.0	100.0
	42			90.5	90.5	100.0	100.0
	48			84.2	84.2	100.0	100.0
	54			78.8	78.8	94.1	94.1
	60			74.0	74.0	88.4	88.4

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. **21-0526.01**
Approval Date: **09/30/2021**
By: *Manuel Perez*
Miami-Dade Product Control



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

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

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

revisions:

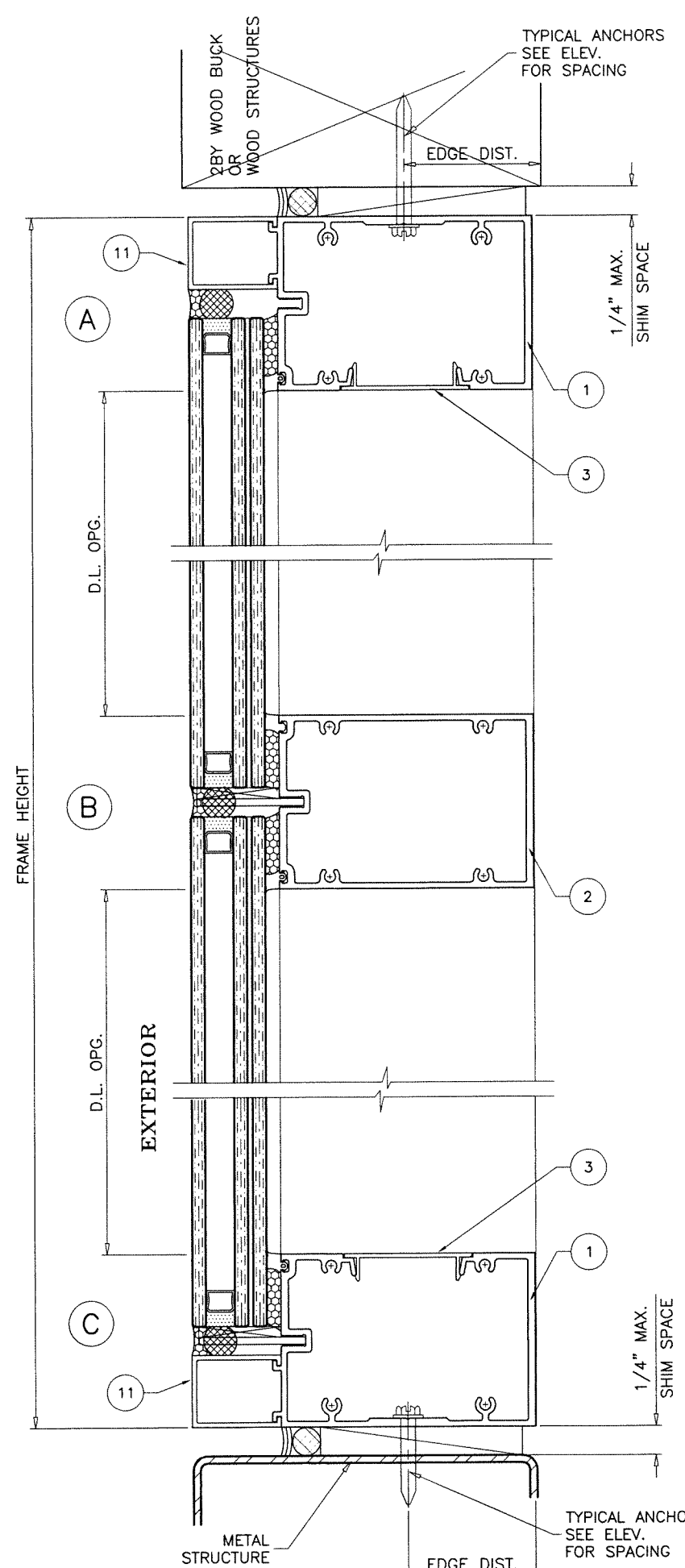
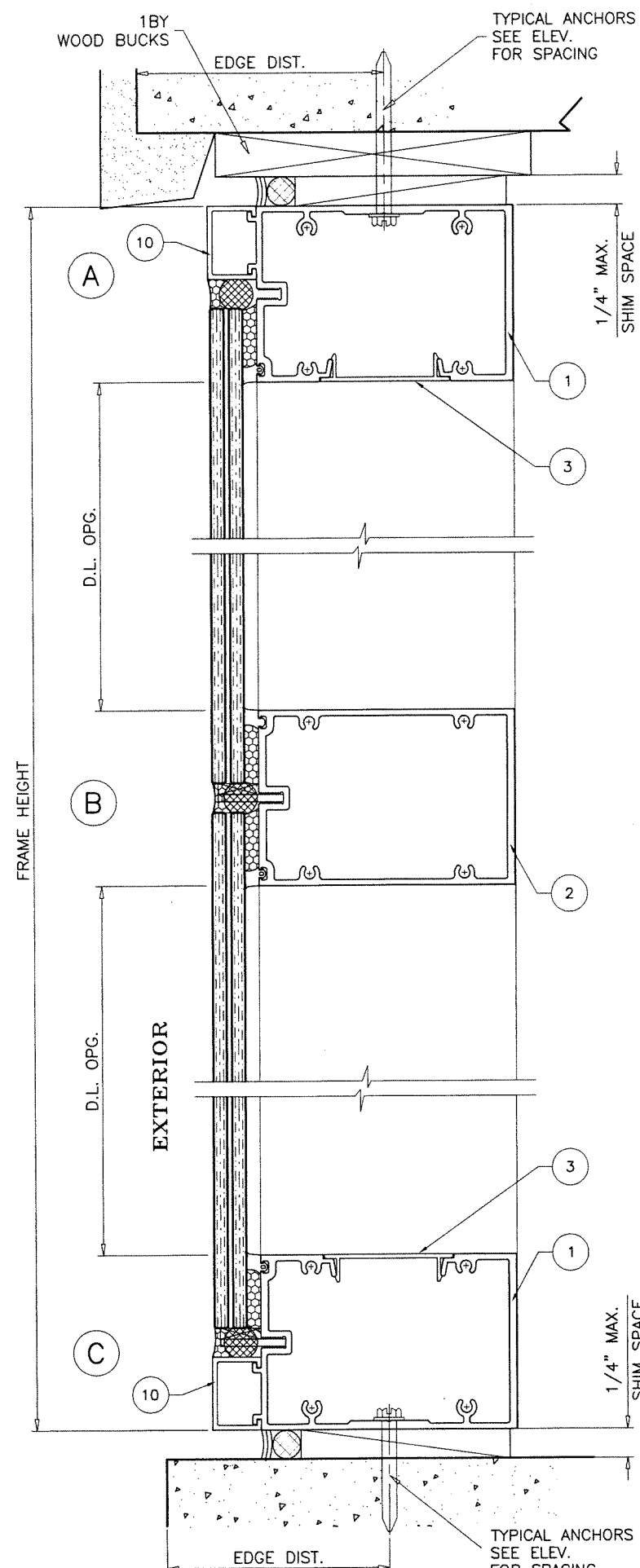
no	date	by	description
1	08/25/21	A	REV. PER PER COMMENTS

date: 04-27-21
scale: -
dr. by: TARIQ
chk. by:

drawing no.
21-35D

sheet 10 of 17

SEP 16 2021



WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WINDOWS'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

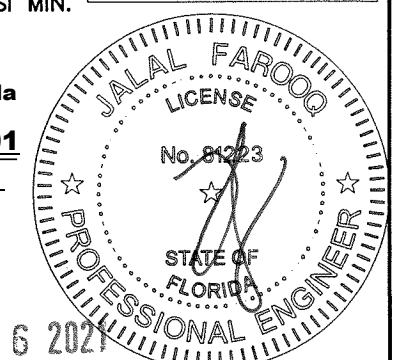
TYPE 'A'
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-5/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)
ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B'
5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
 INTO WOOD STRUCTURES
 1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-5/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)
ANCHOR EDGE DISTANCES
 INTO CONCRETE AND MASONRY = 3-1/8" MIN.
 INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'C'
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
ANCHOR EDGE DISTANCES
 INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

PRODUCT APPROVED
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 Miami-Dade Product Control



SEP 16 2021

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 9360 SUNSET DRIVE, SUITE 220
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STORE 21-35D-ECO

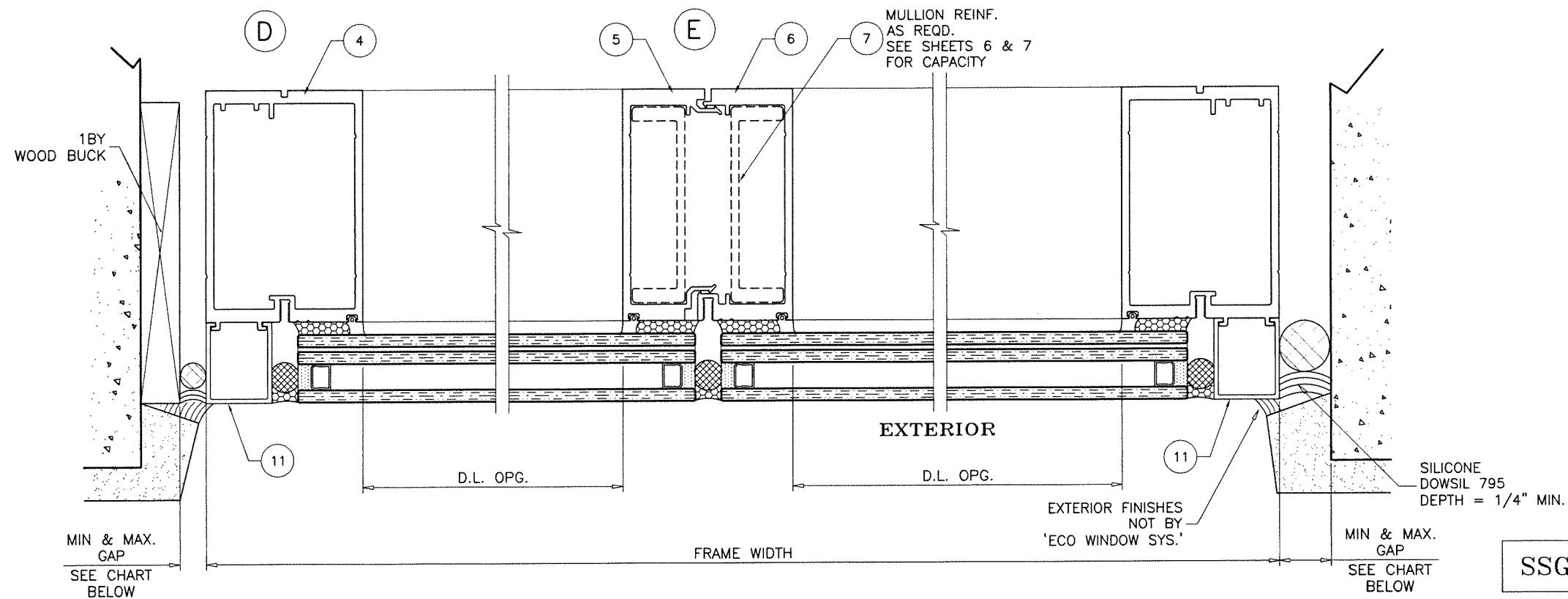
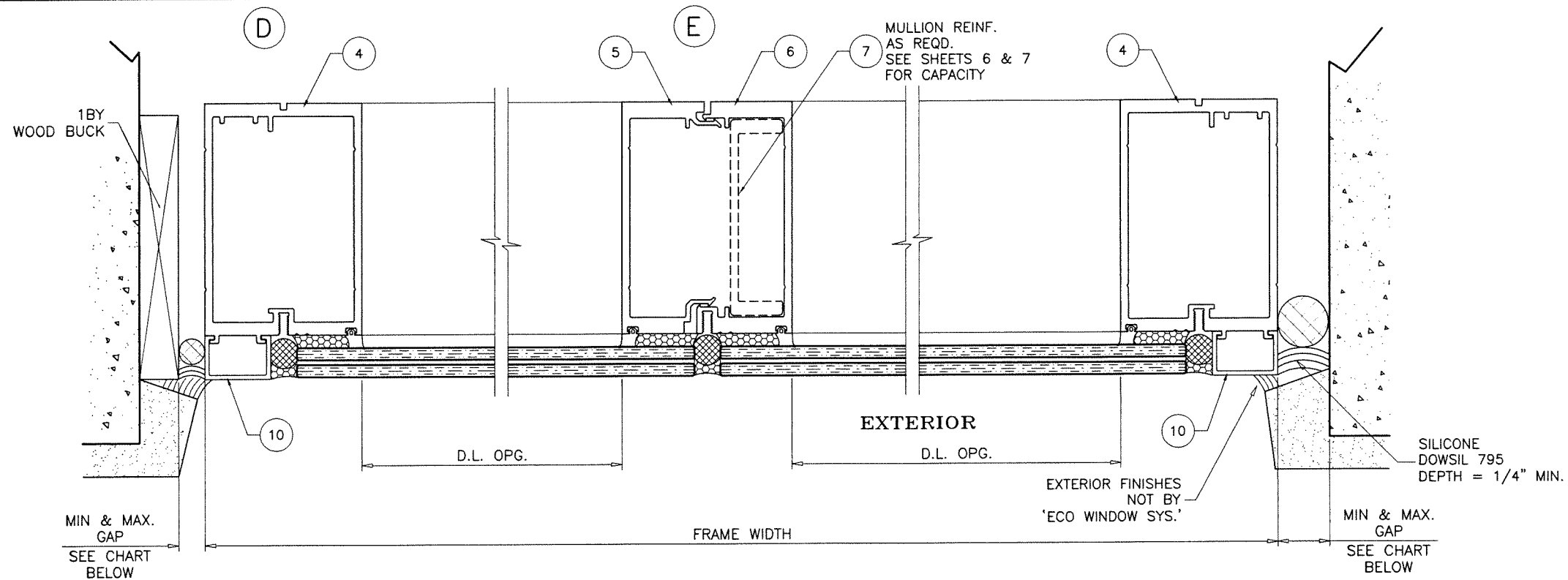
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revisions:	no	date	by	description
	A	08.25.21		NO CHANGE THIS SHEET

date: 04-27-21
 scale: 3/8" = 1"
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 chk. by:

drawing no.
21-35D
 sheet 11 of 17

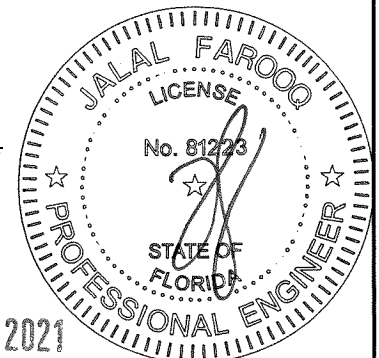


NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION
 MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL
 MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY
 ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.
 GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY
 THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.
 REFER TO SHEETS 4 THRU 7 FOR SELECTION OF MULLION/JAMB WITH
 REINFORCED & UNREINFORCED FRAMES.

MAX. FRAME HEIGHT UPTO	GAPS FOR UNANCHORED JAMBS	
	MIN.	MAX.
108"	3/8"	1"
120"	7/16"	1"

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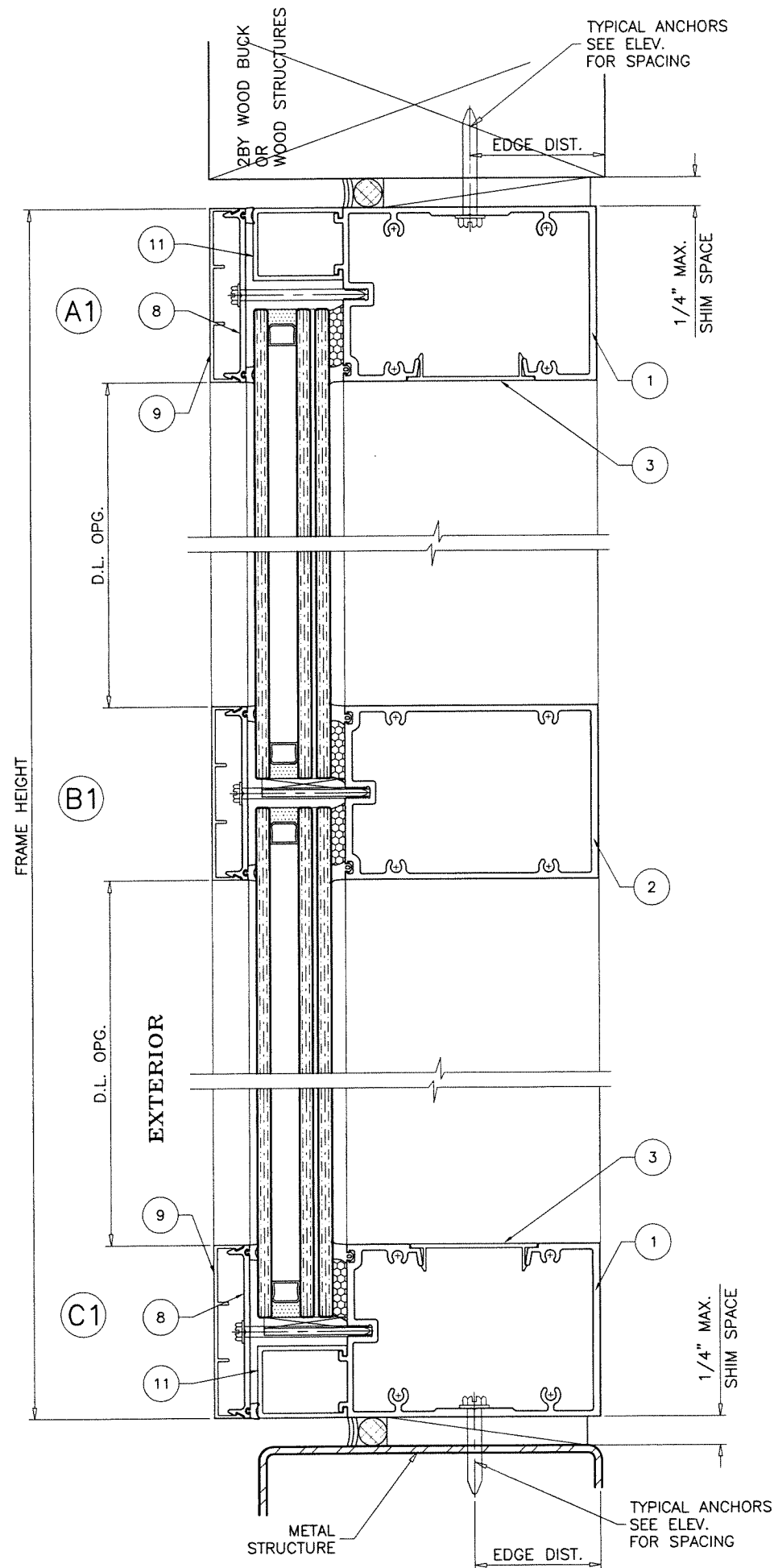
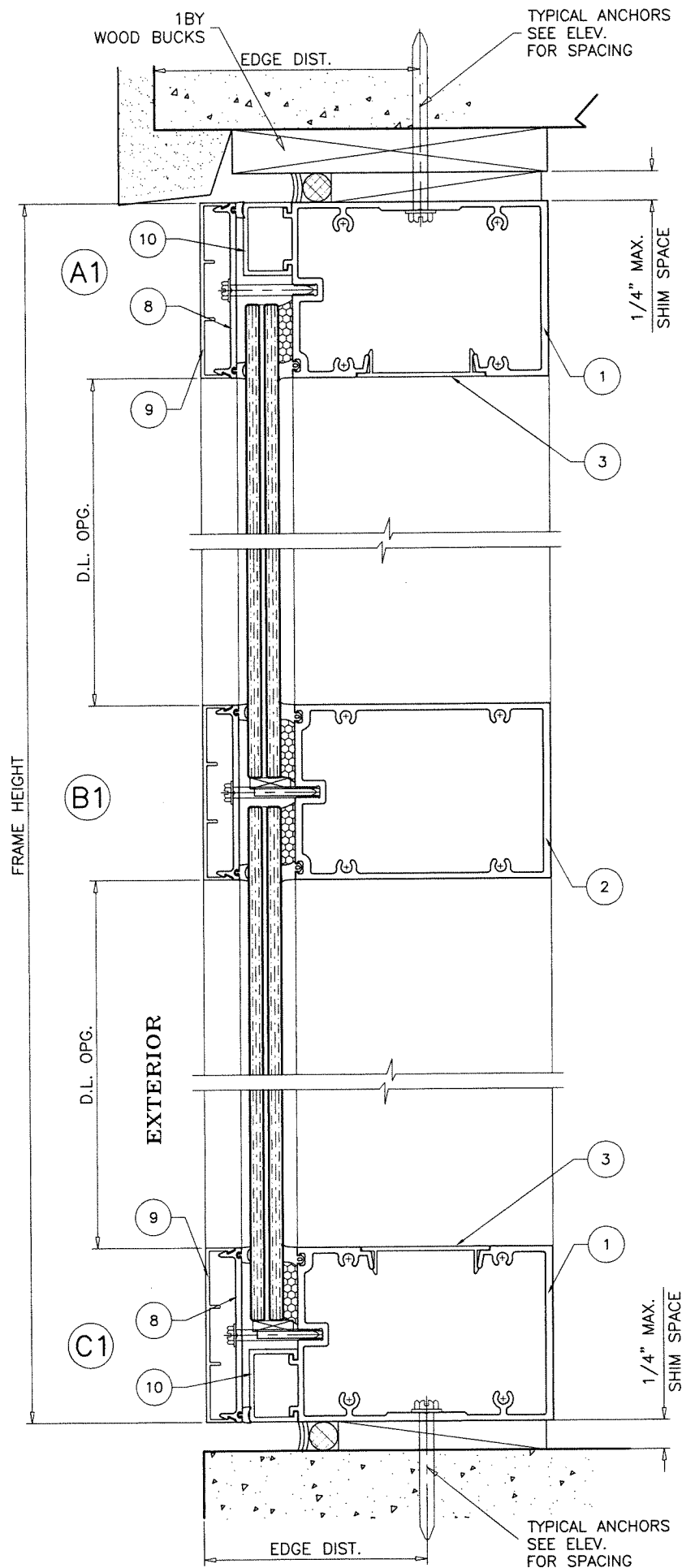
SEP 16 2021

SSG SYSTEM

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
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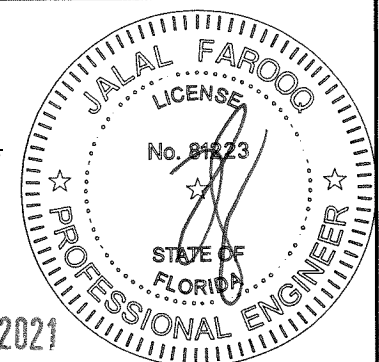
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no	date	by	description	REV. PER RER COMMENTS
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		chk. by:		
drawing no.	21-35D			
sheet	12 of 17			



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Approval Date: **09/30/2021**
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Miami-Dade Product Control

CAPTURED SYSTEM



SEP 16 2021

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

ECO WINDOW SYSTEMS, LLC.

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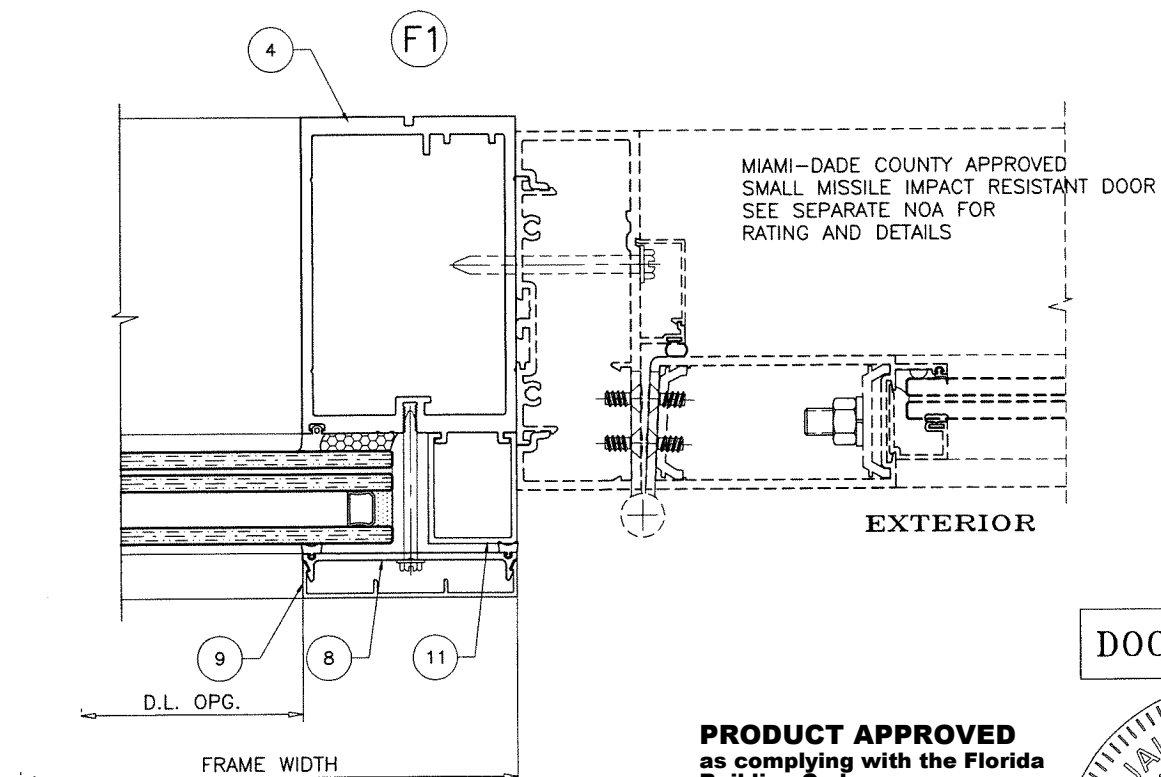
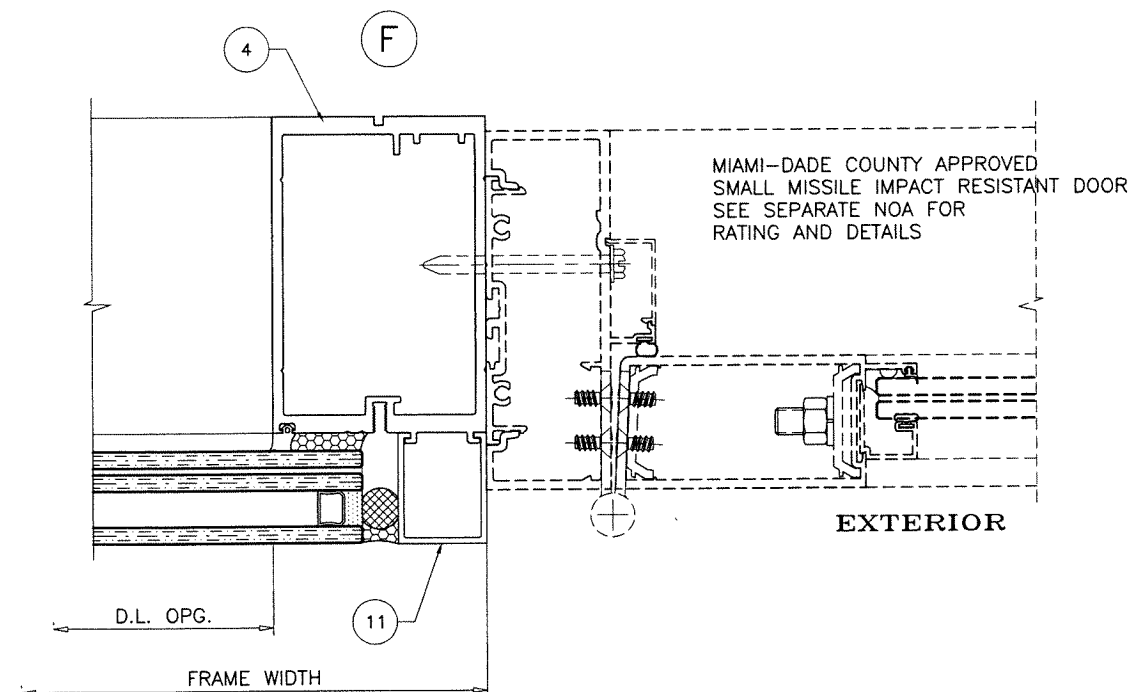
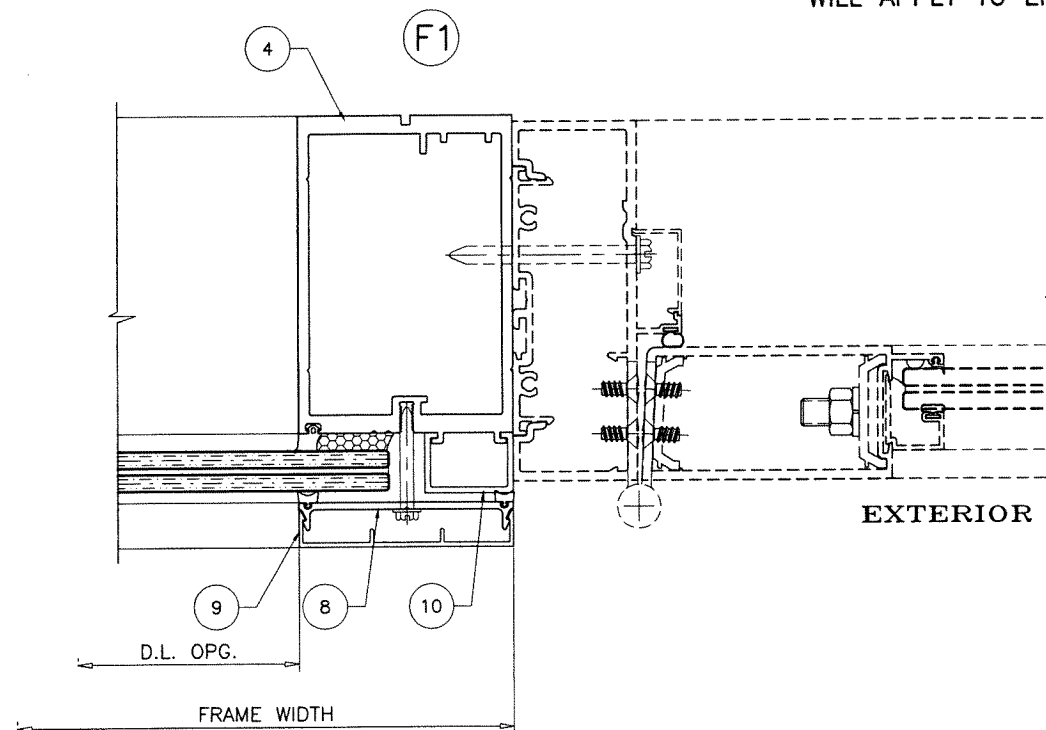
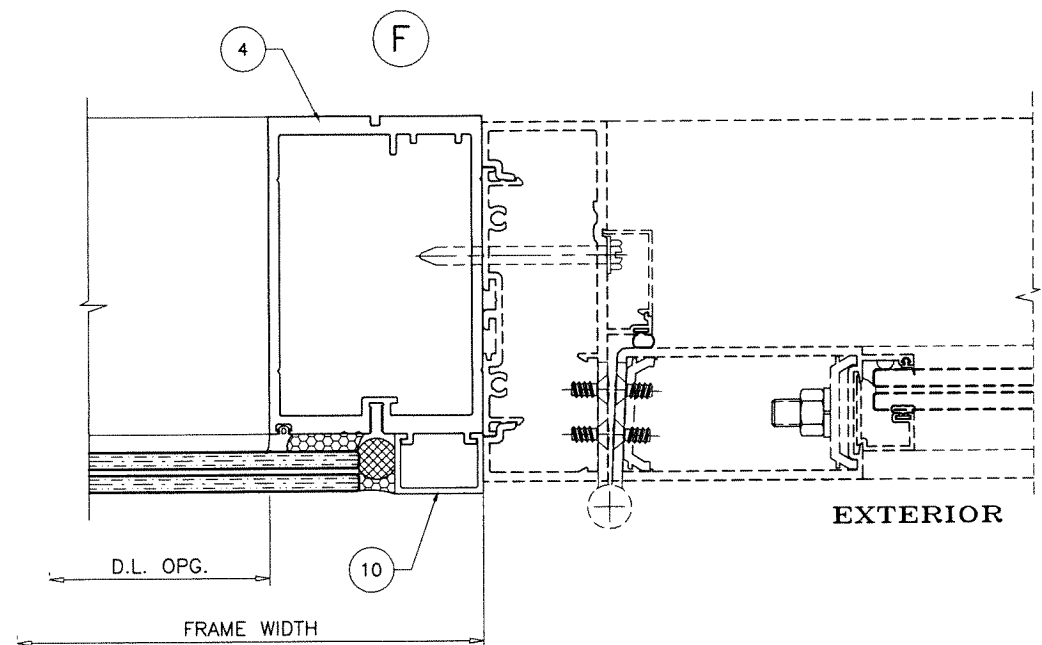
STORE 21-35D-ECO

revisions:		no	date	by	description
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chk. by:					

drawing no.

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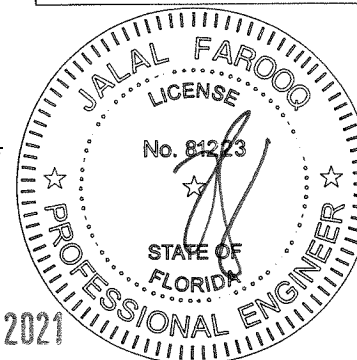
sheet 13 of 17



SEE SEPARATE NOA FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.

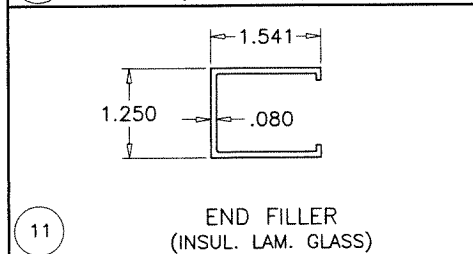
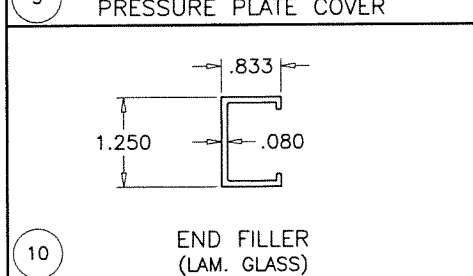
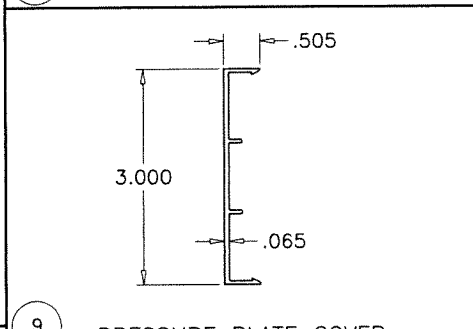
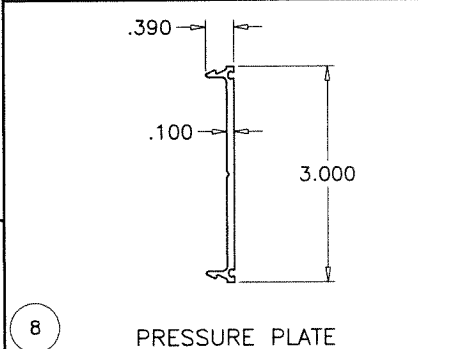
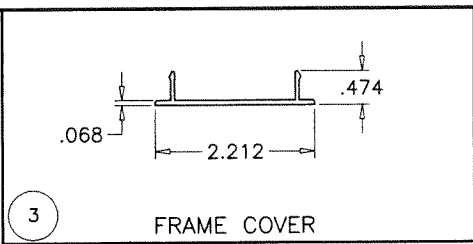
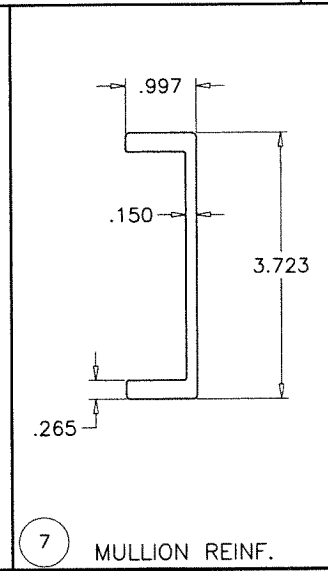
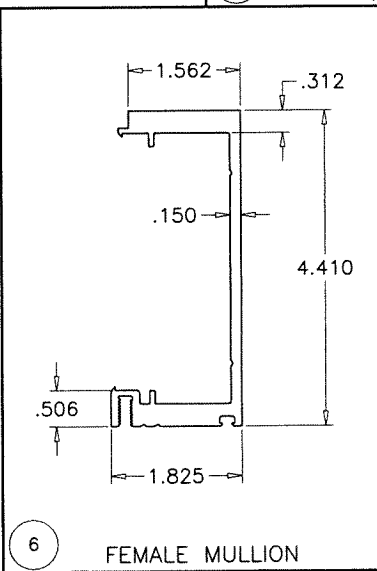
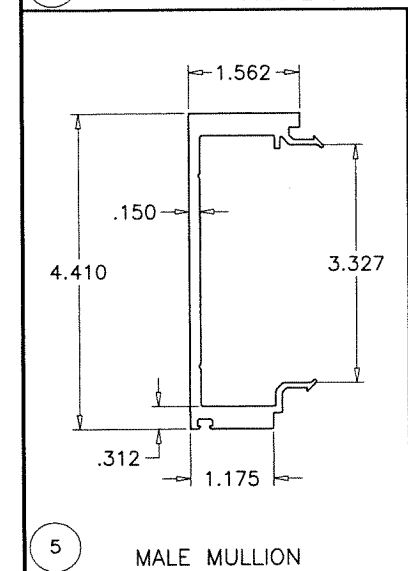
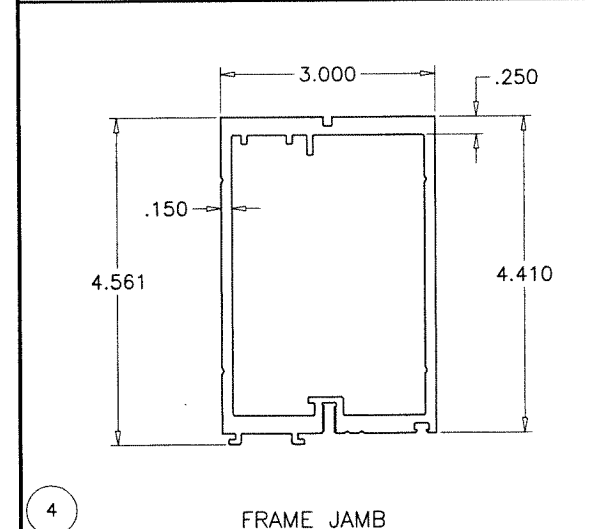
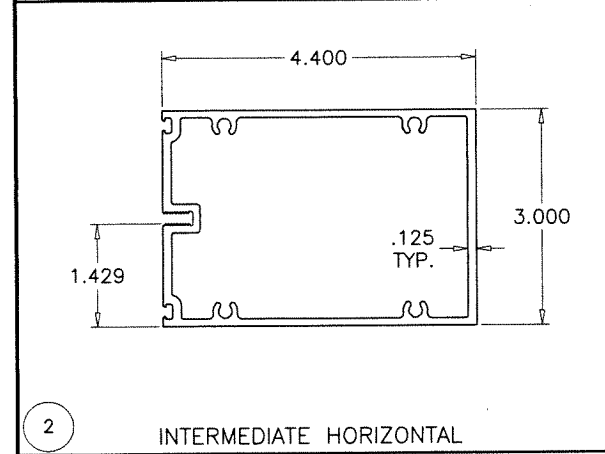
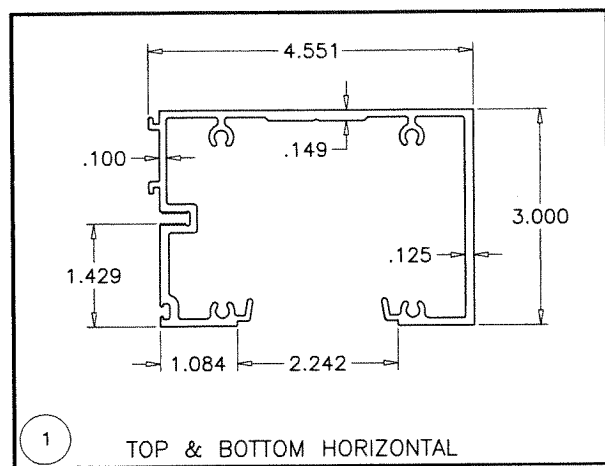
LOWER VALUES FROM DOORS NOA OR WINDOW WALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. **21-0526.01**
Approval Date: **09/30/2021**
By: *Manuel Perez*
Miami-Dade Product Control

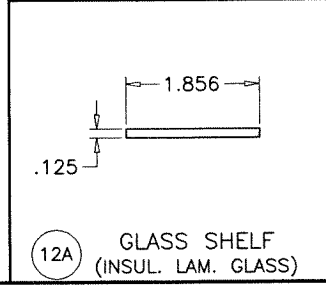
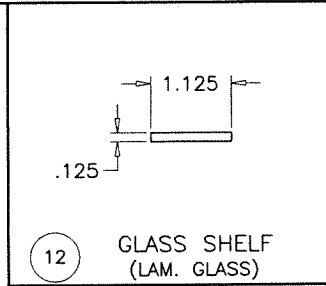


SEP 16 2021

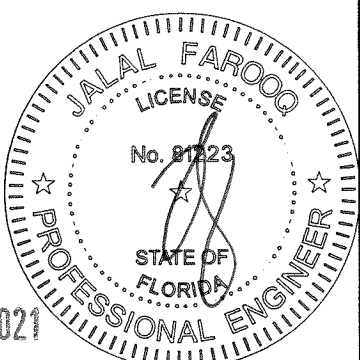
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 STORE 21-35D-ECO		SERIES-NARROW ALUM WINDOW WALL SYS. (S.M.I.)	
		ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th STREET MEDLEY, FL. 33166 TEL. (305) 885-5299 FAX (305) 885-5902	
date: 04-27-21 scale: 3/8" = 1" dr. by: TARIQ chk. by:	no. A date 08.25.21 description NO CHANGE THIS SHEET	revisions:	
drawing no. 21-35D		sheet 15 of 17	



ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	2501	AS REQD.	TOP & BOTTOM HORIZONTAL	6063-T6	-
2	2505	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
3	2507	AS REQD.	FRAME COVER	6063-T5	-
4	2504	AS REQD.	FRAME JAMB	6063-T6	-
5	2502	AS REQD.	MALE MULLION	6063-T6	-
6	2503	AS REQD.	FEMALE MULLION	6063-T6	-
7	2506	AS REQD.	MULLION REINF.	6063-T6	-
8	2509	AS REQD.	PRESSURE PLATE	6063-T5	-
9	2508	AS REQD.	PRESSURE PLATE COVER	6063-T5	-
10	2510	AS REQD.	END FILLER (LAM. GLASS)	6063-T5	-
11	2511	AS REQD.	END FILLER (INSUL. LAM. GLASS)	6063-T5	-
12	-	AS REQD.	GLASS SHELF (LAM. GLASS)	6063-T5	-
12A	-	AS REQD.	GLASS SHELF (INSUL. LAM. GLASS)	6063-T5	-
13	GN-02	4/ LITE	EXTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
14	GN-01	4/ LITE	INTERIOR GLAZING GASKET	EPDM	DUROMETER 80±5 SHORE A
15	-	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS (LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
15A	-	2/ LITE	SETTING BLOCKS, AT 1/4 POINTS (INSUL. LAM. GLASS)	EPDM	DUROMETER 80±5 SHORE A
16	#10-24 X 1-3/8"	AS REQD.	PRESSURE PLATE FASTENERS	ST/ST	-
16A	#10-24 X 2-1/8"	AS REQD.	PRESSURE PLATE FASTENERS	ST/ST	-
17	#12 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST/ST	HEX. HEAD SMS
18	-	-	-	-	-



PRODUCT APPROVED
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SEP 16 2021

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

STORE 21-35D-ECO

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

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

revisions:

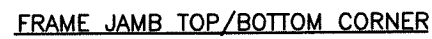
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date: 04-27-21
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
21-35D

sheet 16 of 17

SEP 16 2021



SEP 16 2021

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