



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

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 "400" Aluminum Window Wall System w/Window Inserts – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W12-09**, titled "Series 400 Alum. Window Wall System (S.M.I.)", sheets 1, 1.1, 2 through 7, 7.1, 8 and 9 of 9 dated 03/02/12, with revision **E** dated 04/13/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, 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. **17-0329.02** and 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 **Sifang Zhao, P.E.**



S.Z.
08/23/2018

NOA No. 18-0503.04

Expiration Date: December 20, 2022

Approval Date: August 23, 2018

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. 12-0801.03)
1. Drawing No. **W12-09**, titled "Series 400 Alum. Window Wall System (S.M.I.)", sheets 1 through 9 of 9, dated 03/02/12, with revision **D** dated 08/02/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-10-3064R**, dated 01/18/11, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0801.03)
2. Test reports on: 1) Small Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Reports No.'s **HETI-10-3065**, **HETI-10-3067**, **HETI-10-3069**, and **HETI-10-3070**, all dated 10/18/10, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0801.03)
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
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-10-3064**, **HETI-10-3066** and **HETI-10-3068**, all dated 10/18/10, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0801.03)
4. Test reports on: 1) Safety Performance (Drop Load) Test, (class A, Sec. 5)
per ANSI Z97.1-1984 and CPSC 16 CFR, CH II, Part 1201
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-10-3096**, dated 10/18/10, signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0801.03)



Sifang Zhao, P. E.
Product Control Examiner
NOA No. 18-0503.04

Expiration Date: December 20, 2022
Approval Date: August 23, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated August 01, 2017, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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. **16-1117.01** issued to **Kuraray America, Inc.** for their “**Trosifol® Ultraclear, Clear and Color PVB Interlayers**” dated 01/19/17, expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, with **FBC 6th Edition (2017)** and of no financial interest, dated August 1st, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letters for Test Reports No.: **HETI-10-3065, HETI-10-3067, HETI-10-3069, HETI-10-3070, HETI-10-3064, HETI-10-3066, HETI-10-3068 and HETI-10-3064R**, all issued by Hurricane Engineering & Testing, Inc., all dated 10/18/10 and 01/18/11, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA No. 12-0801.03)
3. Proposal No. **10-0233R** issued by Product Control Section, dated 07/12/10, signed by Manuel Perez, P.E.
(Submitted under NOA No. 12-0801.03)

G. OTHERS

1. Notice of Acceptance No. **15-0603.14**, issued to Eco Window Systems, LLC for their Series “400” Aluminum Window Wall System w/Window Inserts – S.M.I. approved on 12/10/15 and expiring on 12/20/17.

Sifang Zhao, P. E.
Product Control Examiner
NOA No. 18-0503.04
Expiration Date: December 20, 2022
Approval Date: August 23, 2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W12-09**, titled "Series 400 Alum. Window Wall System (S.M.I.)", sheets 1, 1.1, 2 through 7, 7.1, 8 and 9 of 9, dated 03/02/12, with revision **E** dated 04/13/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
3) Safety Performance Test, (class A, Sec. 5) per ANSI Z97.1
along with marked-up drawings and installation diagram of outswing alum. door and alum. window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-9872**, dated 12/12/17, signed and sealed by Idalmis Ortega, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated March 01, 2018, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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

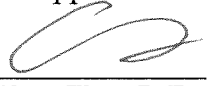
1. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "Trosifol® Ultraclear, Clear and Color PVB Interlayers" dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)** and of no financial interest, dated March 15, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Proposal No. **17-0579** issued by the Product Control Section, dated 07/18/17, signed by Manuel Perez, P.E.

G. OTHERS

1. Notice of Acceptance No. **17-0329.02**, issued to Eco Window Systems, LLC for their Series "400" Aluminum Window Wall System w/Window Inserts – S.M.I. approved on 10/19/17 and expiring on 12/20/22.

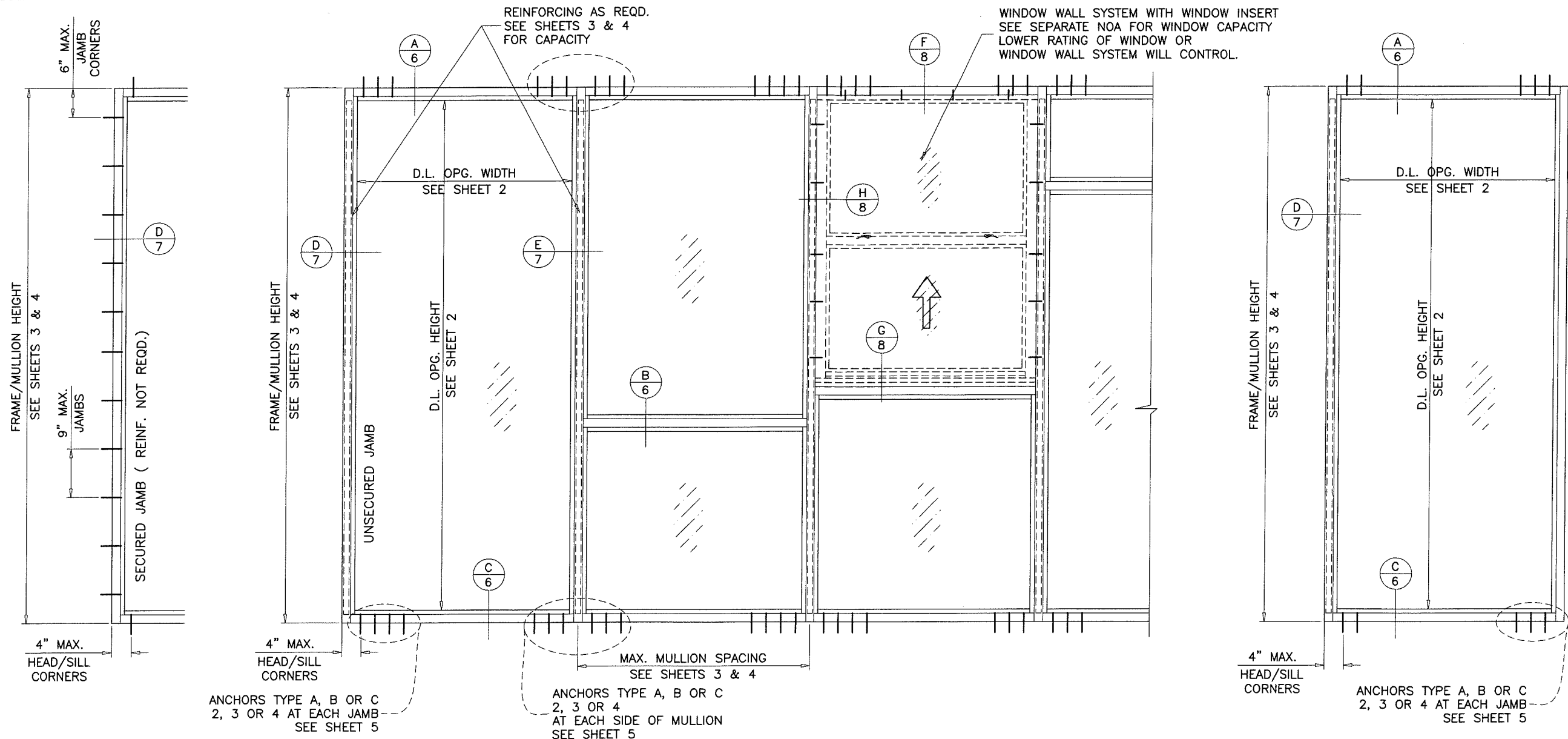

Sifang Zhao, P. E.

Product Control Examiner

NOA No. 18-0503.04

Expiration Date: December 20, 2022

Approval Date: August 23, 2018



TYPICAL ELEVATION

SERIES 400 ALUMINUM WINDOW WALL SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH 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 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

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

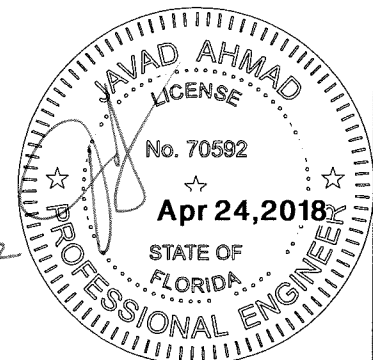
PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

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

SMALL MISSILE IMPACT

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0503.04
Expiration Date 12/20/2022

By 
Miami Dade Product Control



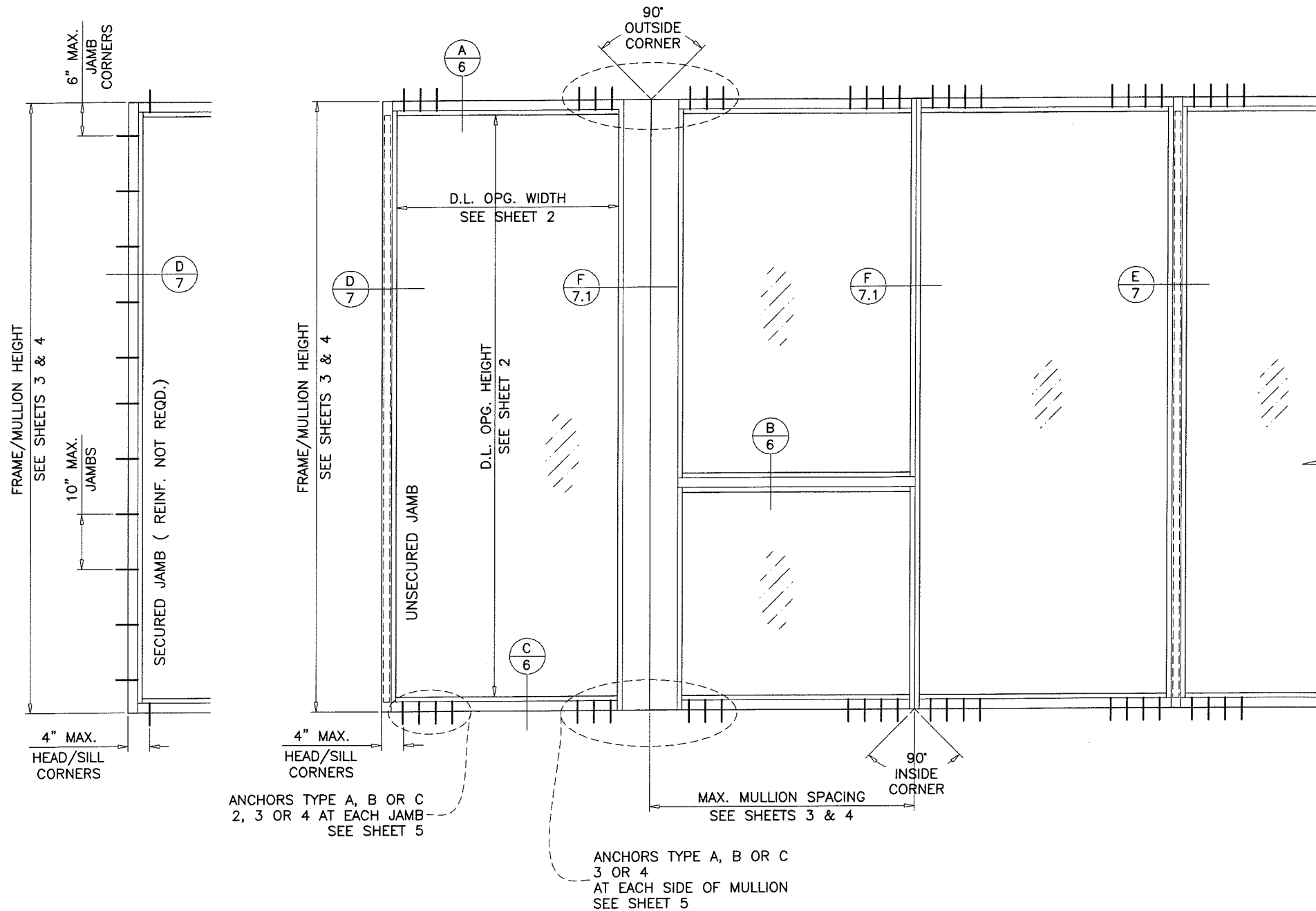
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W12-09ECO

SERIES 400 ALUM WINDOW WALL SYSTEM (S.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:	no.	date	by	description
	A	12.11.12	REV. PER	COMMENTS
	B	04.20.15	UPDATED TO	2014 FBC
	C	12.01.15	REV. PER	COMMENTS
	D	08.02.17	UPDATED TO	2017 FBC
	E	04.13.18	CORNER MULLION	ADDED

date:	03-02-12
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.	W12-09
sheet	1 of 9



TYPICAL ELEVATION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0503.04
Expiration Date 12/30/2022

By [Signature]
Miami Dade Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
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af c

STORE W12-09ECO

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revisions:

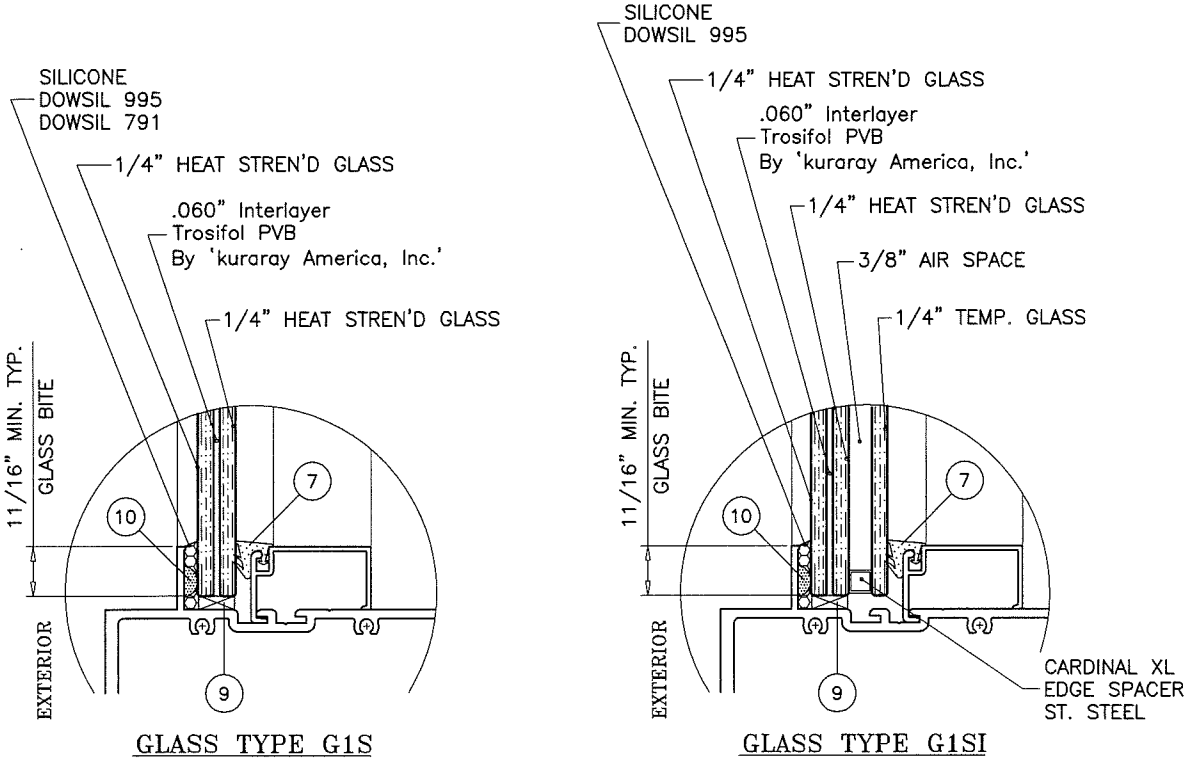
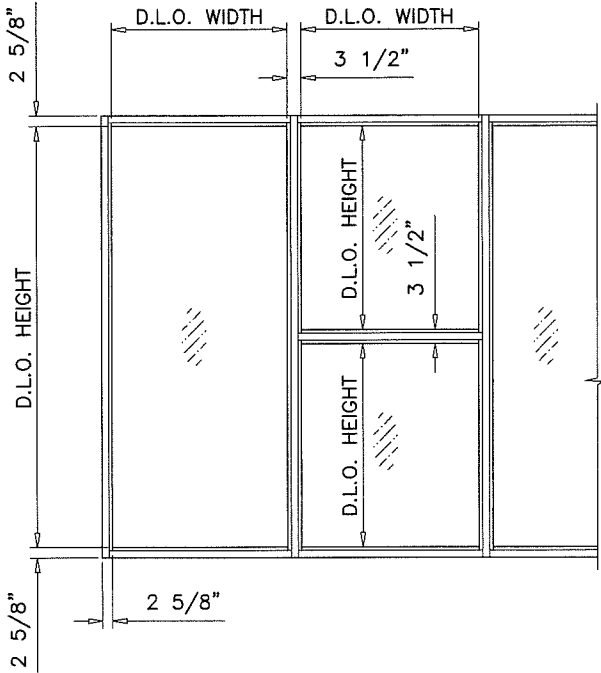
no	date	by	description
E	04.13.18		CORNER MULLION ADDED

date: 03-02-12
scale: 1/2" = 1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W12-09
sheet 1.1 of 9

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPES	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
26-1/2"	78-3/4"	90.0	130.0
32-1/2"		90.0	130.0
38-1/2"		90.0	130.0
44-1/2"		90.0	130.0
50-1/2"		90.0	130.0
56-1/2"		90.0	130.0
26-1/2"	84-3/4"	90.0	130.0
32-1/2"		90.0	130.0
38-1/2"		90.0	130.0
44-1/2"		90.0	130.0
50-1/2"		90.0	130.0
56-1/2"		90.0	130.0
26-1/2"	90-3/4"	90.0	130.0
32-1/2"		90.0	130.0
38-1/2"		90.0	130.0
44-1/2"		90.0	130.0
50"		90.0	130.0
50-1/2"		90.0	130.0
56-1/2"		90.0	130.0
26-1/2"	96-3/4"	90.0	130.0
32-1/2"		90.0	130.0
38-1/2"		90.0	130.0
44-1/2"		90.0	130.0
47"		90.0	130.0
50-1/2"		90.0	130.0
26-1/2"	102-3/4"	90.0	130.0
32-1/2"		90.0	130.0
38-1/2"		90.0	130.0
44"		90.0	130.0
44-1/2"		90.0	130.0
49"		90.0	130.0
26-1/2"	108-3/4"	90.0	130.0
32-1/2"		90.0	130.0
38-1/2"		90.0	130.0
41"		90.0	130.0
44-1/2"		90.0	130.0
47"		90.0	130.0
26-1/2"	114-3/4"	90.0	130.0
32-1/2"		90.0	130.0
38-1/2"		90.0	130.0
39"		90.0	130.0
44-1/2"		90.0	130.0

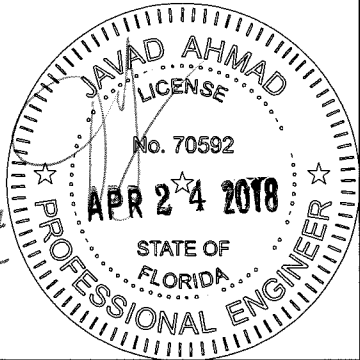
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLAZING OPTIONS

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0503.04
Expiration Date 12/20/2022
By: [Signature]
Miami Dade Product Control



af c
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

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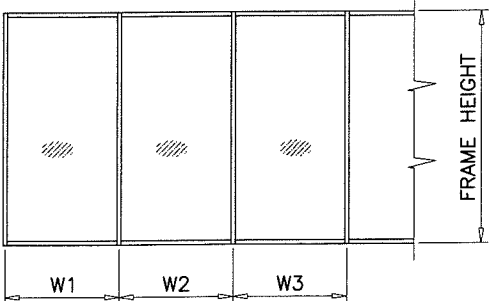
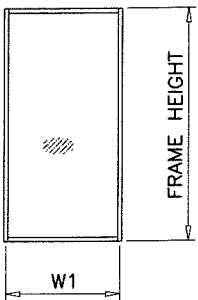
Revisions:		by	description
no	date		
A	12.11.12	REV. PER	COMMENTS
B	04.20.15	UPDATED TO	2014 FBC
C	12.01.15	REV. PER	COMMENTS
D	08.02.17	UPDATED TO	2017 FBC
E	04.13.18	NO CHANGE	THIS SHEET

date: 03-02-12
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
W12-09
sheet 2 of 9

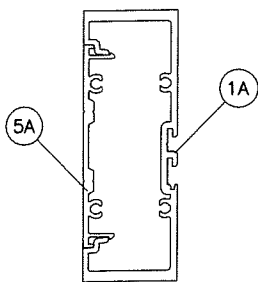
STORE\W12-09ECO

JAMB & MULLION LOAD CAPACITY - PSF									
JAMBS & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J1'		JAMB 'J2'		JAMB 'J2'		MULL 'MC'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	84"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	125.5	90.0	130.0	90.0	130.0	90.0	120.0
54"		90.0	115.3	90.0	130.0	90.0	130.0	90.0	120.0
60"		90.0	107.9	90.0	130.0	90.0	130.0	90.0	120.0
30"	90"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	119.2	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	106.9	90.0	130.0	90.0	130.0	90.0	120.0
54"		90.0	97.7	90.0	130.0	90.0	130.0	90.0	120.0
60"		90.0	90.9	90.0	130.0	90.0	130.0	90.0	120.0
30"	96"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	118.2	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	103.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	92.1	90.0	130.0	90.0	130.0	90.0	120.0
54"		83.9	83.9	90.0	129.2	90.0	130.0	90.0	120.0
60"		77.7	77.7	90.0	119.6	90.0	130.0	90.0	120.0
30"	102"	90.0	122.6	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	103.4	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	90.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		80.2	80.2	90.0	123.3	90.0	130.0	90.0	120.0
54"		72.9	72.9	90.0	111.9	90.0	130.0	90.0	120.0
56"		70.8	70.8	90.0	108.8	90.0	130.0	90.0	120.0
30"	108"	90.0	108.3	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	91.3	90.0	130.0	90.0	130.0	90.0	120.0
42"		79.3	79.3	90.0	121.7	90.0	130.0	90.0	120.0
48"		70.5	70.5	90.0	108.2	90.0	130.0	90.0	120.0
53"		64.8	64.8	90.0	99.5	90.0	125.3	90.0	120.0
30"	114"	90.0	96.4	90.0	130.0	90.0	130.0	90.0	120.0
36"		81.1	81.1	90.0	124.2	90.0	130.0	90.0	120.0
42"		70.4	70.4	90.0	107.7	90.0	130.0	90.0	120.0
48"		62.4	62.4	90.0	95.6	90.0	121.4	90.0	120.0
50"		60.3	60.3	90.0	92.3	90.0	117.2	90.0	120.0
30"	120"	82.4	82.4	90.0	130.0	90.0	130.0	90.0	120.0
36"		69.5	69.5	90.0	110.9	90.0	130.0	90.0	120.0
42"		60.3	60.3	90.0	96.0	90.0	122.9	90.0	120.0
48"		53.6	53.6	85.1	85.1	90.0	108.9	90.0	120.0



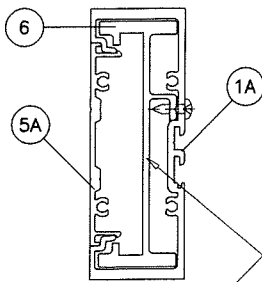
WIDTH (W) = W1
AT FRAME JAMB

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



UNSECURED JAMB 'J1'

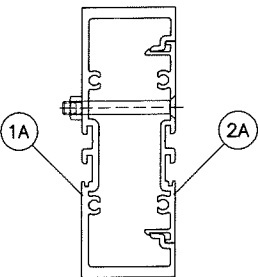
Ix IN ⁴	Sx IN ³
6.5984	2.5580



UNSECURED JAMB 'J2'

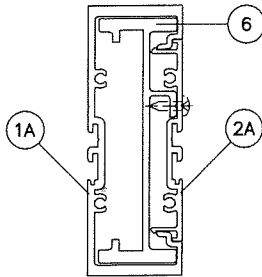
Ix IN ⁴	Sx IN ³
10.7054	4.1502

REINFORCING REQD. AT
UNSECURED JAMBS ONLY
SEE CHART FOR CAPACITY



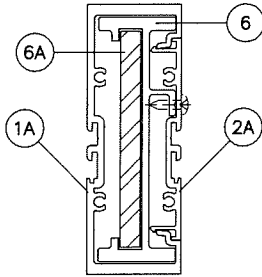
MULLION 'M1'

Ix IN ⁴	Sx IN ³
6.7306	2.6093



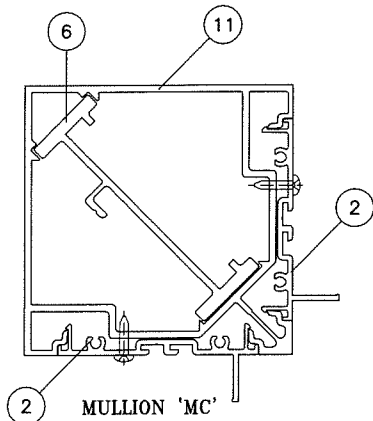
MULLION 'M2'

Ix IN ⁴	Sx IN ³
10.8376	4.2014



MULLION 'M3'

	Ix IN ⁴	Sx IN ³
ALUMINUM	10.8376	4.2014
STEEL	2.000	1.0000
TOTAL Ix ALUM + Ix STL X 2.9	16.6376	



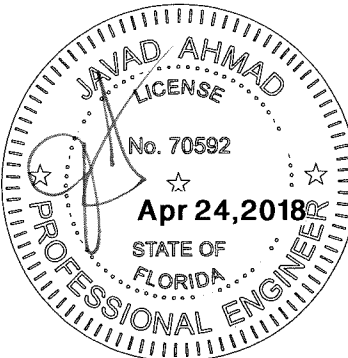
MULLION 'MC'

Ix IN ⁴	Sx IN ³
12.5914	5.005

PRODUCT REVISED

as complying with the Florida
Building Code
Acceptance No. 18-0503.04
Expiration Date 12/20/2022

By [Signature]
Miami Dade Product Control



afc

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 400 ALUM WINDOW WALL SYSTEM (S.M.I.)

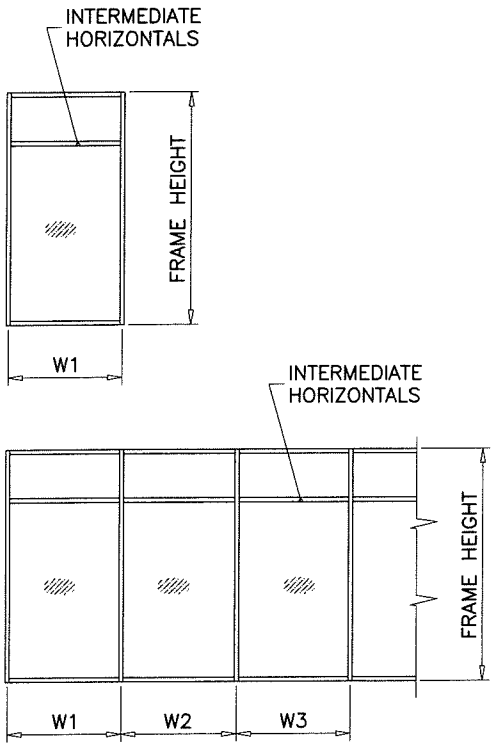
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

no	date	by	description
A	12.11.12		REV. PER PER COMMENTS
B	04.20.15		UPDATED TO 2014 FBC
C	12.01.15		NO CHANGE THIS SHEET
D	08.02.17		UPDATED TO 2017 FBC
E	04.13.18		CORNER MULLION ADDED

date:	03-02-12
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	

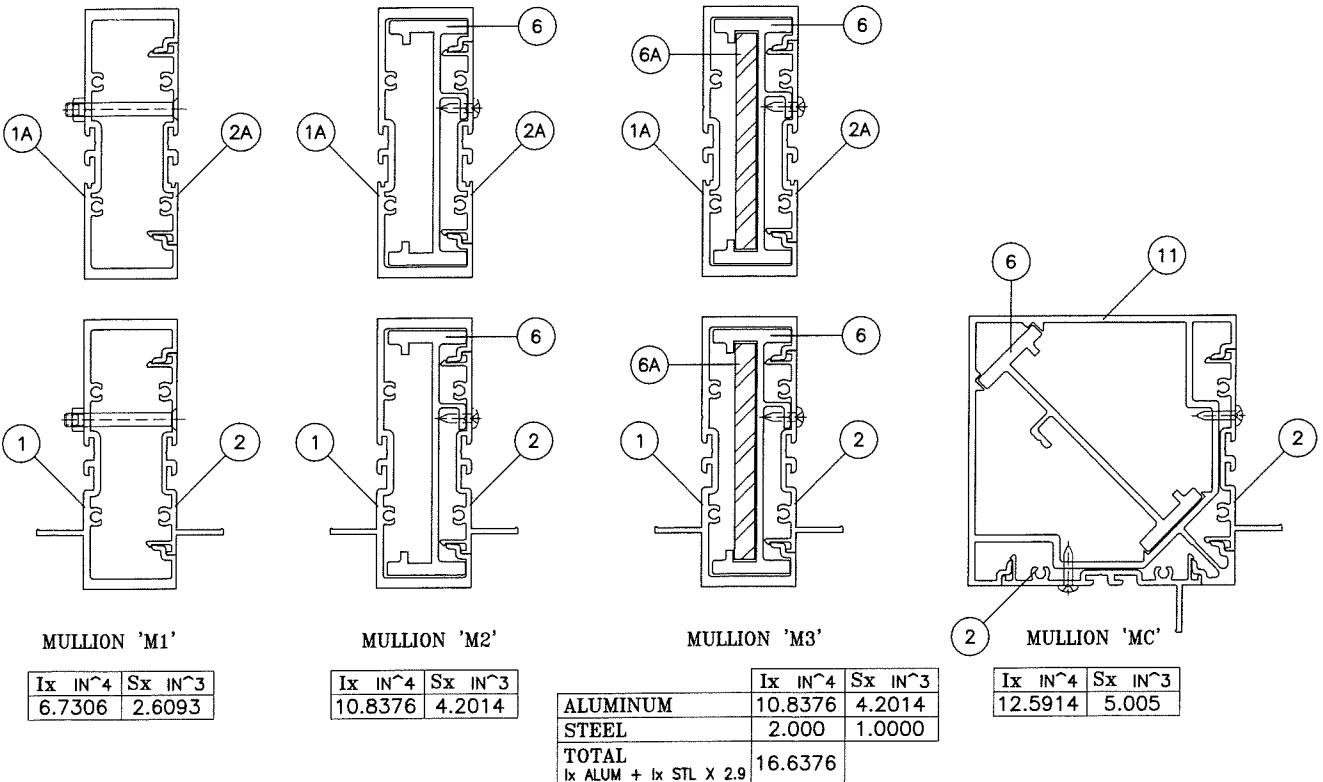
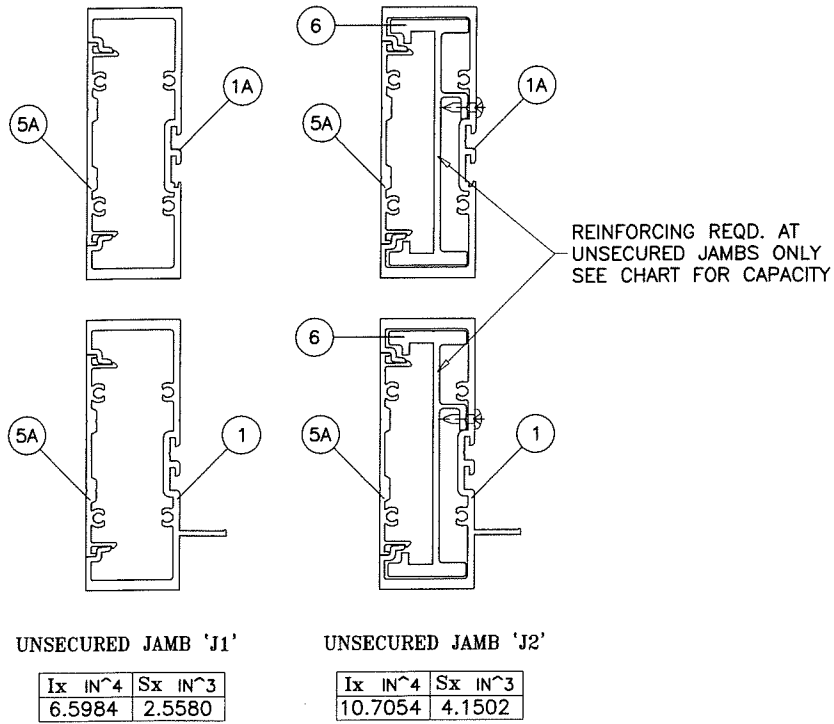
drawing no.
W12-09
sheet 3 of 9

JAMB & MULLION LOAD CAPACITY - PSF									
JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J1'		JAMB 'J2'		JAMB 'J2'		MULL 'MC'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	84"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	128.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	112.1	90.0	130.0	90.0	130.0	90.0	120.0
54"		90.0	99.6	90.0	130.0	90.0	130.0	90.0	120.0
60"		89.7	89.7	90.0	130.0	90.0	130.0	90.0	120.0
30"	90"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	129.3	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	110.8	90.0	130.0	90.0	130.0	90.0	120.0
48"		90.0	97.0	90.0	130.0	90.0	130.0	90.0	120.0
54"		86.2	86.2	90.0	130.0	90.0	130.0	90.0	120.0
60"		77.6	77.6	90.0	119.6	90.0	130.0	90.0	120.0
30"	96"	90.0	130.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	112.8	90.0	130.0	90.0	130.0	90.0	120.0
42"		90.0	96.7	90.0	130.0	90.0	130.0	90.0	120.0
48"		84.6	84.6	90.0	130.0	90.0	130.0	90.0	120.0
54"		75.2	75.2	90.0	115.8	90.0	130.0	90.0	120.0
60"		67.7	67.7	90.0	104.2	90.0	129.1	90.0	120.0
30"	102"	90.0	119.2	90.0	130.0	90.0	130.0	90.0	120.0
36"		90.0	99.3	90.0	130.0	90.0	130.0	90.0	120.0
42"		85.1	85.1	90.0	130.0	90.0	130.0	90.0	120.0
48"		74.5	74.5	90.0	114.4	90.0	130.0	90.0	120.0
54"		66.2	66.2	90.0	101.7	90.0	127.1	90.0	120.0
56"		63.8	63.8	90.0	98.1	90.0	122.5	90.0	120.0
30"	108"	90.0	105.6	90.0	130.0	90.0	130.0	90.0	120.0
36"		88.0	88.0	90.0	130.0	90.0	130.0	90.0	120.0
42"		75.4	75.4	90.0	115.7	90.0	130.0	90.0	120.0
48"		66.0	66.0	90.0	101.2	90.0	127.5	90.0	120.0
53"		59.8	59.8	90.0	91.7	90.0	115.5	90.0	120.0
30"	114"	90.0	94.0	90.0	130.0	90.0	130.0	90.0	120.0
36"		78.3	78.3	90.0	120.2	90.0	130.0	90.0	120.0
42"		67.1	67.1	90.0	103.0	90.0	130.0	90.0	120.0
48"		58.7	58.7	90.0	90.1	90.0	114.4	90.0	120.0
50"		56.4	56.4	86.5	86.5	90.0	109.8	90.0	120.0
30"	120"	80.6	80.6	90.0	129.1	90.0	130.0	90.0	120.0
36"		67.1	67.1	90.0	107.6	90.0	130.0	90.0	120.0
42"		57.5	57.5	90.0	92.2	90.0	118.0	90.0	120.0
48"		50.4	50.4	80.7	80.7	90.0	103.3	90.0	120.0



WIDTH (W) = W1
AT FRAME JAMB

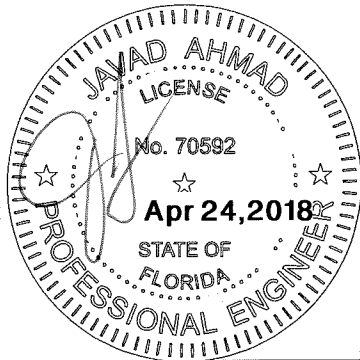
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



	Ix	IN ⁴	Sx	IN ³
ALUMINUM	10.8376	4.2014		
STEEL	2.000	1.0000		
TOTAL				
Ix ALUM + Ix STL X 2.9	16.6376			

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0503.04
Expiration Date 12/30/2022

By 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

STORE W12-09ECO

SERIES 400 ALUM WINDOW WALL SYSTEM (S.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

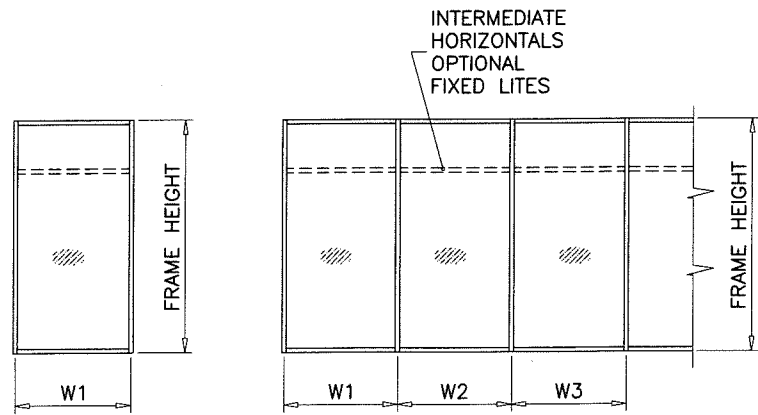
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	B	04.20.15		UPDATED TO 2014 FBC
	C	12.01.15		NO CHANGE THIS SHEET
	D	08.02.17		UPDATED TO 2017 FBC
	E	04.13.18		CORNER MULLION ADDED

date:	03-02-12
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	

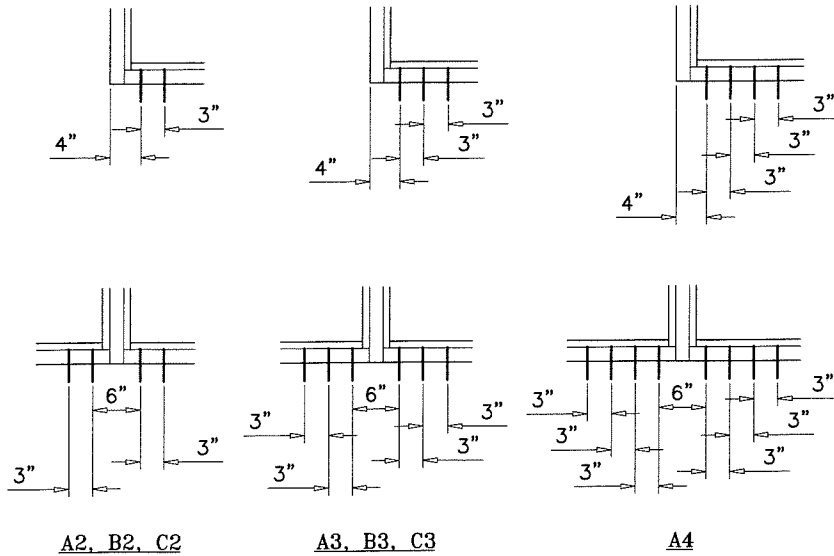
drawing no.	W12-09
sheet	4 of 9

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3	B4/C4
30"	72"	130.0	130.0	130.0	130.0	130.0	130.0
36"		119.6	130.0	130.0	130.0	130.0	130.0
42"		102.5	130.0	130.0	130.0	130.0	130.0
48"		89.7	130.0	130.0	114.7	130.0	130.0
53"		81.2	121.8	130.0	103.8	130.0	130.0
54"		79.7	119.6	130.0	101.9	130.0	130.0
56"		76.9	115.3	130.0	98.3	130.0	130.0
60"		71.7	107.6	130.0	91.7	130.0	130.0
30"	78"	130.0	130.0	130.0	130.0	130.0	130.0
36"		110.4	130.0	130.0	130.0	130.0	130.0
42"		94.6	130.0	130.0	121.0	130.0	130.0
48"		82.8	124.2	130.0	105.8	130.0	130.0
53"		75.0	112.4	130.0	95.9	130.0	130.0
54"		73.6	110.4	130.0	94.1	130.0	130.0
56"		70.9	106.4	130.0	90.7	130.0	130.0
60"		66.2	99.3	130.0	84.7	127.0	130.0
30"	84"	123.0	130.0	130.0	130.0	130.0	130.0
36"		102.5	130.0	130.0	130.0	130.0	130.0
42"		87.8	130.0	130.0	112.3	130.0	130.0
48"		76.9	115.3	130.0	98.3	130.0	130.0
53"		69.6	104.4	130.0	89.0	130.0	130.0
54"		68.3	102.5	130.0	87.4	130.0	130.0
56"		65.9	98.8	130.0	84.2	126.4	130.0
60"		61.5	92.2	123.0	78.6	117.9	130.0
30"	90"	114.8	130.0	130.0	130.0	130.0	130.0
36"		95.6	130.0	130.0	122.3	130.0	130.0
42"		82.0	123.0	130.0	104.8	130.0	130.0
48"		71.7	107.6	130.0	91.7	130.0	130.0
53"		65.0	97.4	129.9	83.1	124.6	130.0
54"		63.8	95.6	127.5	81.5	122.3	130.0
56"		61.5	92.2	123.0	78.6	117.9	130.0
60"		57.4	86.1	114.8	73.4	110.1	130.0
30"	96"	107.6	130.0	130.0	130.0	130.0	130.0
36"		89.7	130.0	130.0	114.7	130.0	130.0
42"		76.9	115.3	130.0	98.3	130.0	130.0
48"		67.3	100.9	130.0	86.0	129.0	130.0
53"		60.9	91.4	121.8	77.9	116.8	130.0
54"		59.8	89.7	119.6	76.4	114.7	130.0
56"		57.6	86.5	115.3	73.7	110.6	130.0
60"		53.8	80.7	107.6	68.8	103.2	130.0
30"	102"	101.3	130.0	130.0	129.5	130.0	130.0
36"		84.4	126.6	130.0	107.9	130.0	130.0
42"		72.3	108.5	130.0	92.5	130.0	130.0
48"		63.3	94.9	126.6	80.9	121.4	130.0
53"		57.3	86.0	114.6	73.3	110.0	130.0
54"		56.3	84.4	112.5	71.9	107.9	130.0
56"		54.3	81.4	108.5	69.4	104.1	130.0
30"	108"	95.6	130.0	130.0	122.3	130.0	130.0
36"		79.7	119.6	130.0	101.9	130.0	130.0
42"		68.3	102.5	130.0	87.4	130.0	130.0
48"		59.8	89.7	119.6	76.4	114.7	130.0
53"		54.1	81.2	108.3	69.2	103.8	130.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3	B4/C4
30"	114"	90.6	130.0	130.0	115.9	130.0	130.0
36"		75.5	113.3	130.0	96.6	130.0	130.0
42"		64.7	97.1	129.4	82.8	124.2	130.0
48"		56.6	84.9	113.3	72.4	108.6	130.0
30"	120"	86.1	129.1	130.0	110.1	130.0	130.0
36"		71.7	107.6	130.0	91.7	130.0	130.0
42"		61.5	92.2	123.0	78.6	117.9	130.0
48"		53.8	80.7	107.6	68.8	103.2	130.0



$$\begin{aligned} \text{WIDTH (W)} &= W1 \\ \text{AT FRAME JAMB} \\ \text{WIDTH (W)} &= \frac{W2 + W3}{2} \\ \text{AT FRAME MULLION} \end{aligned}$$

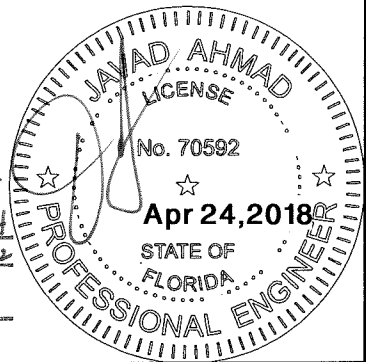


ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

- 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

NOTE:
USE SEAR CLIP UW-403 AT
ANCHOR LOCATIONS OF SUFFICIENT LENGTH
TO COVER ALL ANCHOR SPACINGS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0503.04
Expiration Date 12/30/2022
By: Miami Dade Product Control

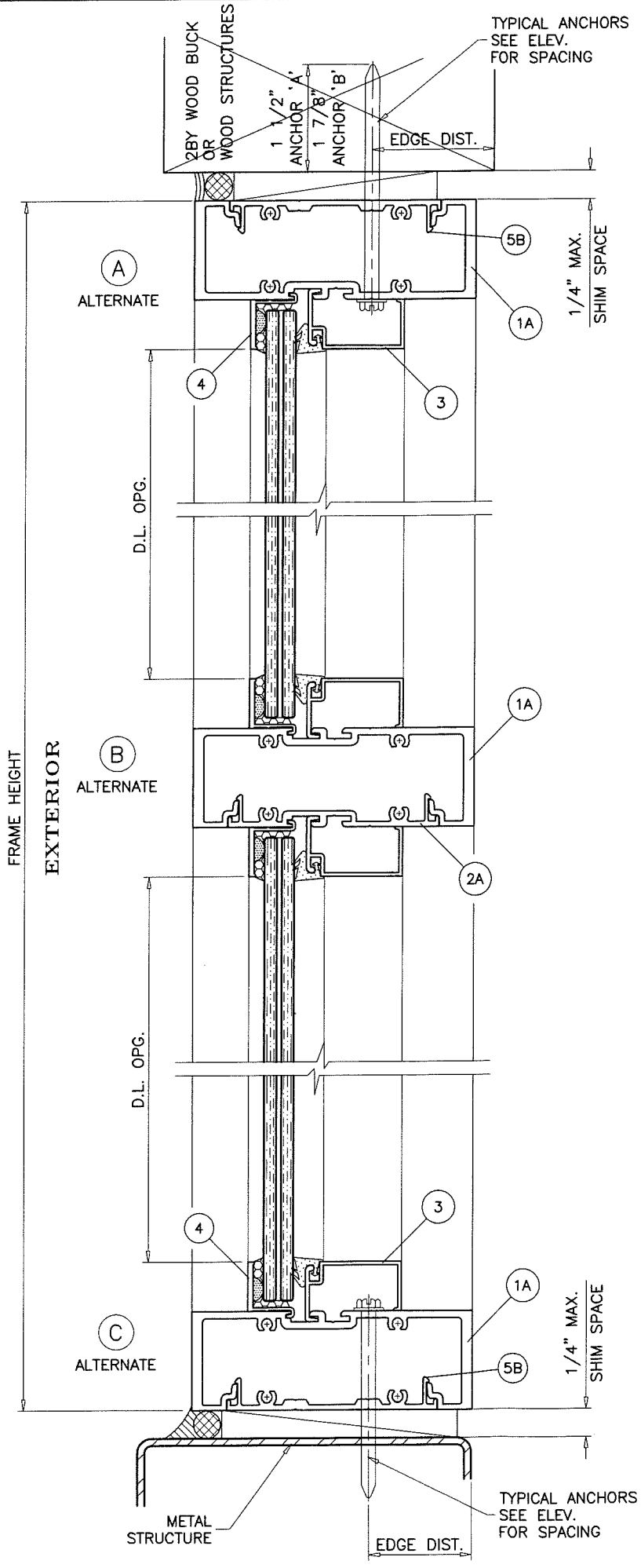
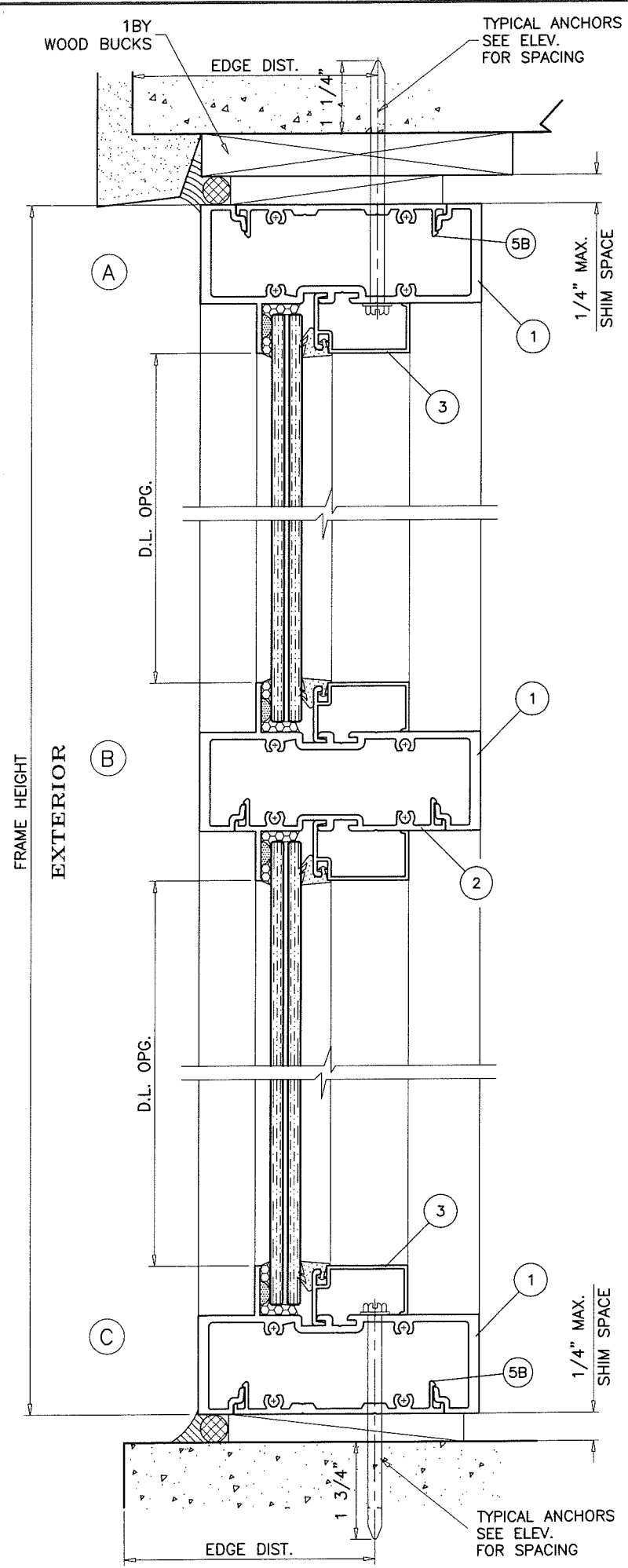


AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES 400 ALUM WINDOW WALL SYSTEM (S.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

revisions:		no	date	by	description
A	12.11.12	NO CHANGE THIS SHEET	NO CHANGE TO 2014 FBC	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET
B	04.20.15	NO CHANGE THIS SHEET	NO CHANGE TO 2017 FBC	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET
C	12.01.15	NO CHANGE THIS SHEET	NO CHANGE TO 2017 FBC	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET
D	08.02.17	NO CHANGE THIS SHEET	NO CHANGE TO 2017 FBC	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET
E	04.13.18	NO CHANGE THIS SHEET	NO CHANGE TO 2017 FBC	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET

date: 03-02-12
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:
drawing no.
W12-09
sheet 5 of 9



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 'ELCO' (Fu=177 KSI, Fy=155 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 'ELCO' (Fu=177 KSI, Fy=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. (Fy = 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 REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 18-0503.04
 Expiration Date 12/20/2021
 By: [Signature]
 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

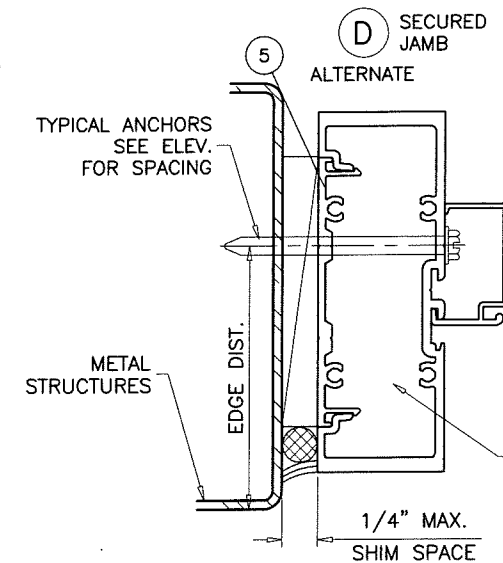
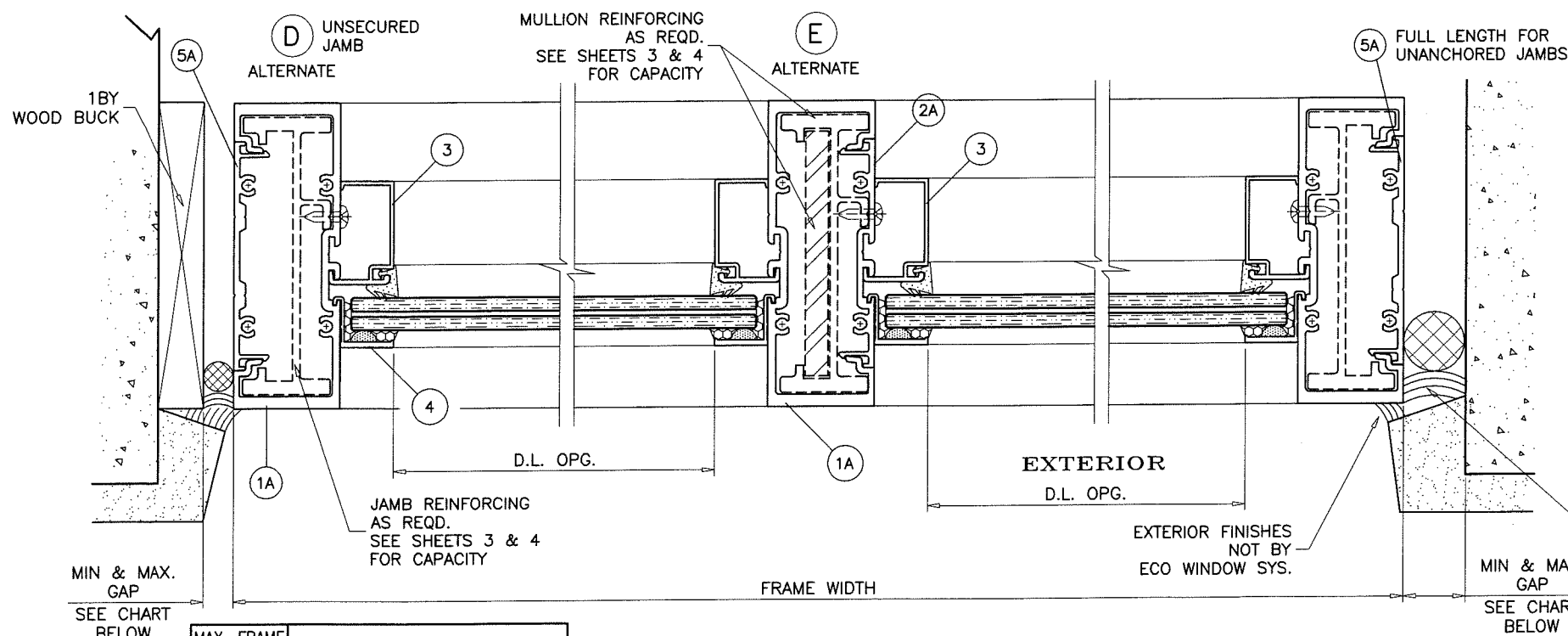
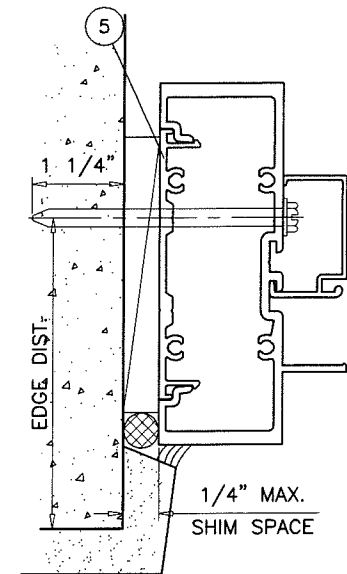
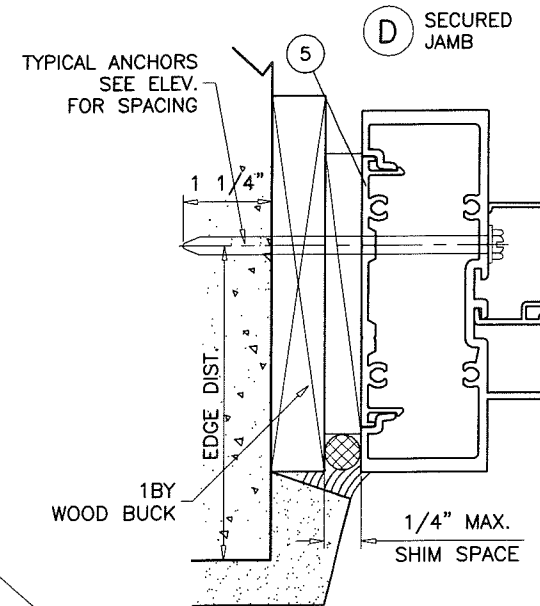
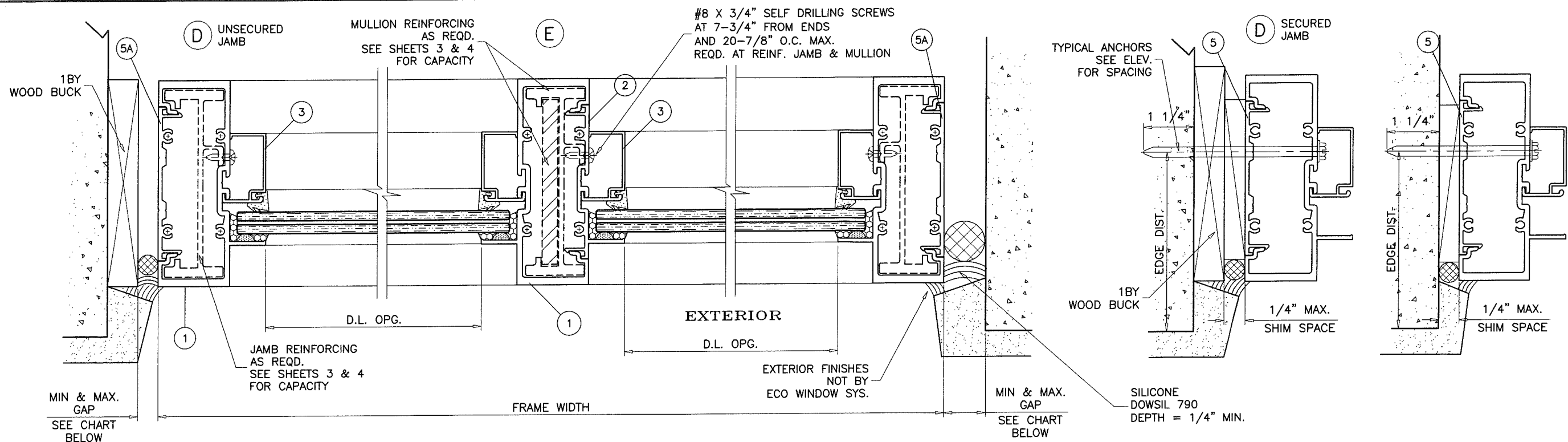
STORE W12-09ECO

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

no	date	by	description
A	12.11.12	REV. PER RER COMMENTS	
B	04.20.15	UPDATED TO 2014 FBC	
C	12.01.15	REV. PER RER COMMENTS	
D	08.02.17	UPDATED TO 2017 FBC	
E	04.13.18	NO CHANGE THIS SHEET	

date: 03-02-12
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
W12-09
 sheet 6 of 9



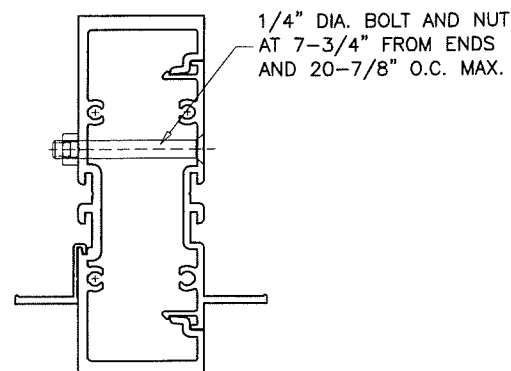
SECURED JAMBS REINF. NOT REQD.

SILICONE DOWSIL 790 DEPTH = 1/4" MIN.

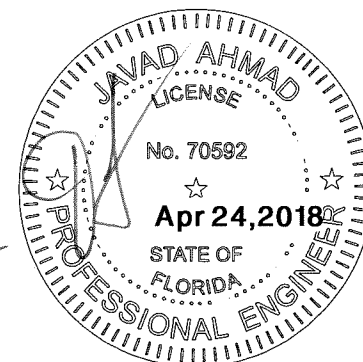
MAX. FRAME HEIGHT UPTO	GAPS FOR UNANCHORED JAMBS	
	MIN.	MAX.
120"	1/4"	1"

NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATIBILITY 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.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0503.04
Expiration Date 12/30/2022
By [Signature]
Miami Dade Product Control



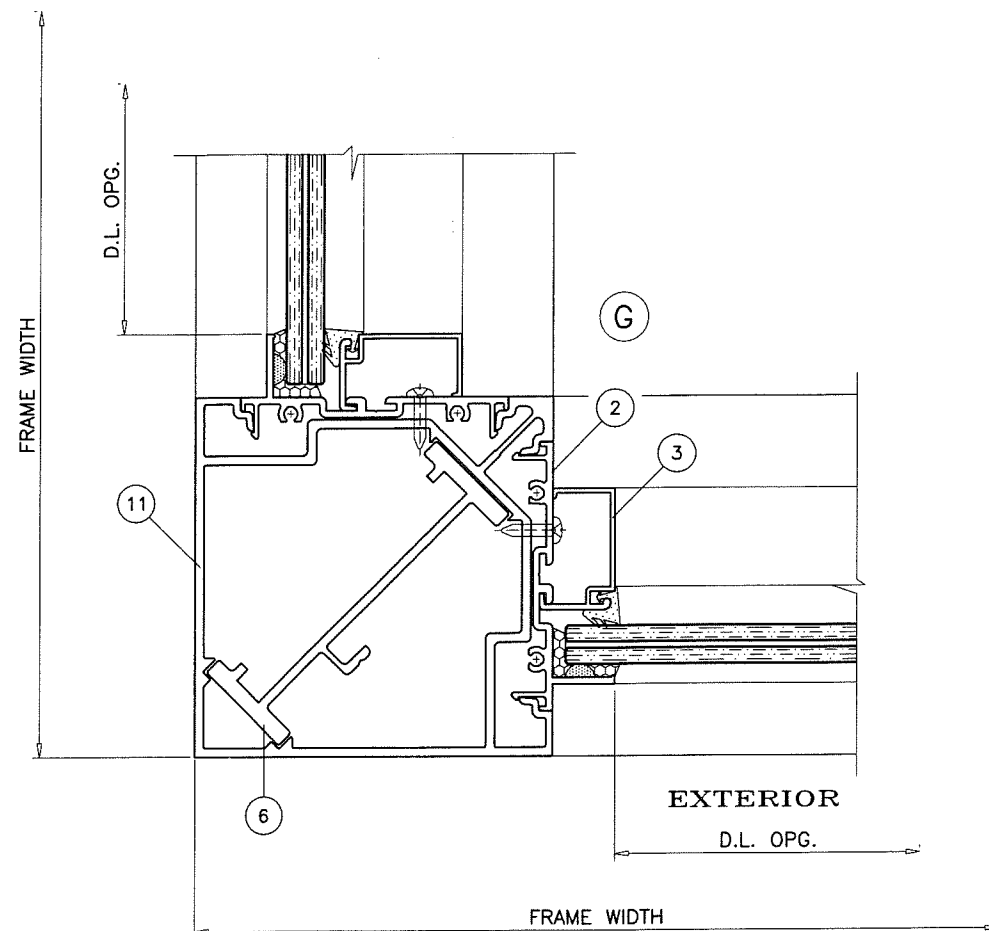
revisions:
no. date by description
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C 12.01.15 NO CHANGE THIS SHEET
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dr. by: TARIQ
chk. by:

drawing no.
W12-09
sheet 7 of 9

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W12-09ECO

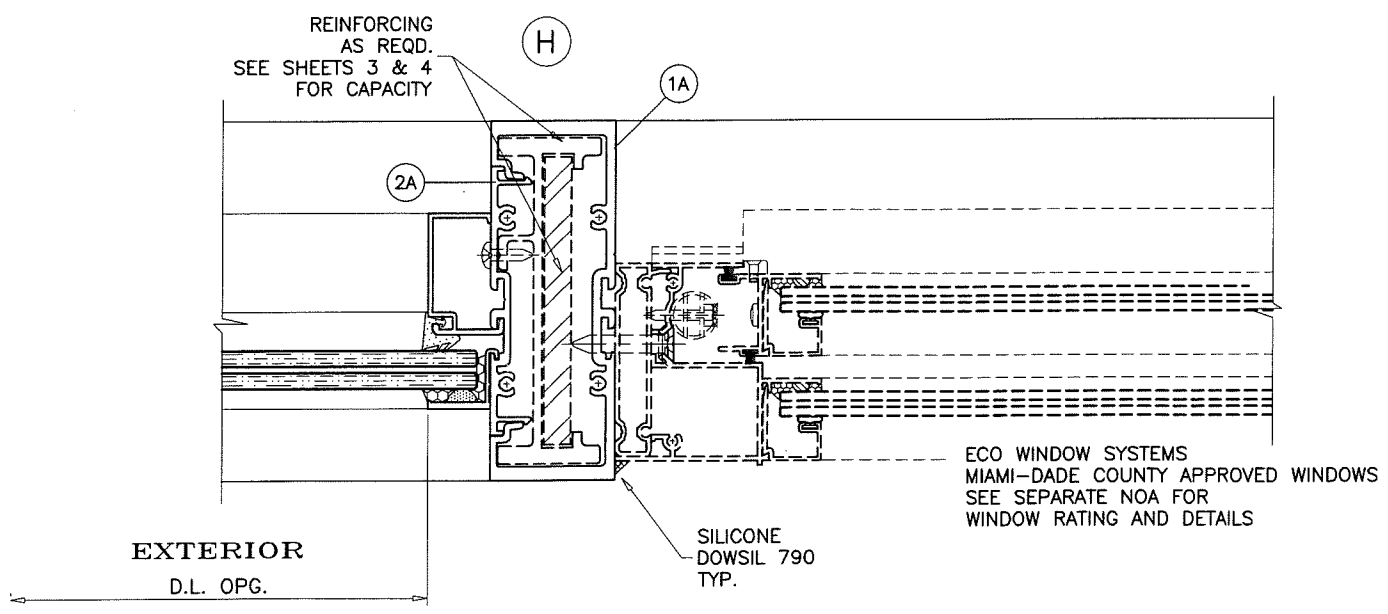
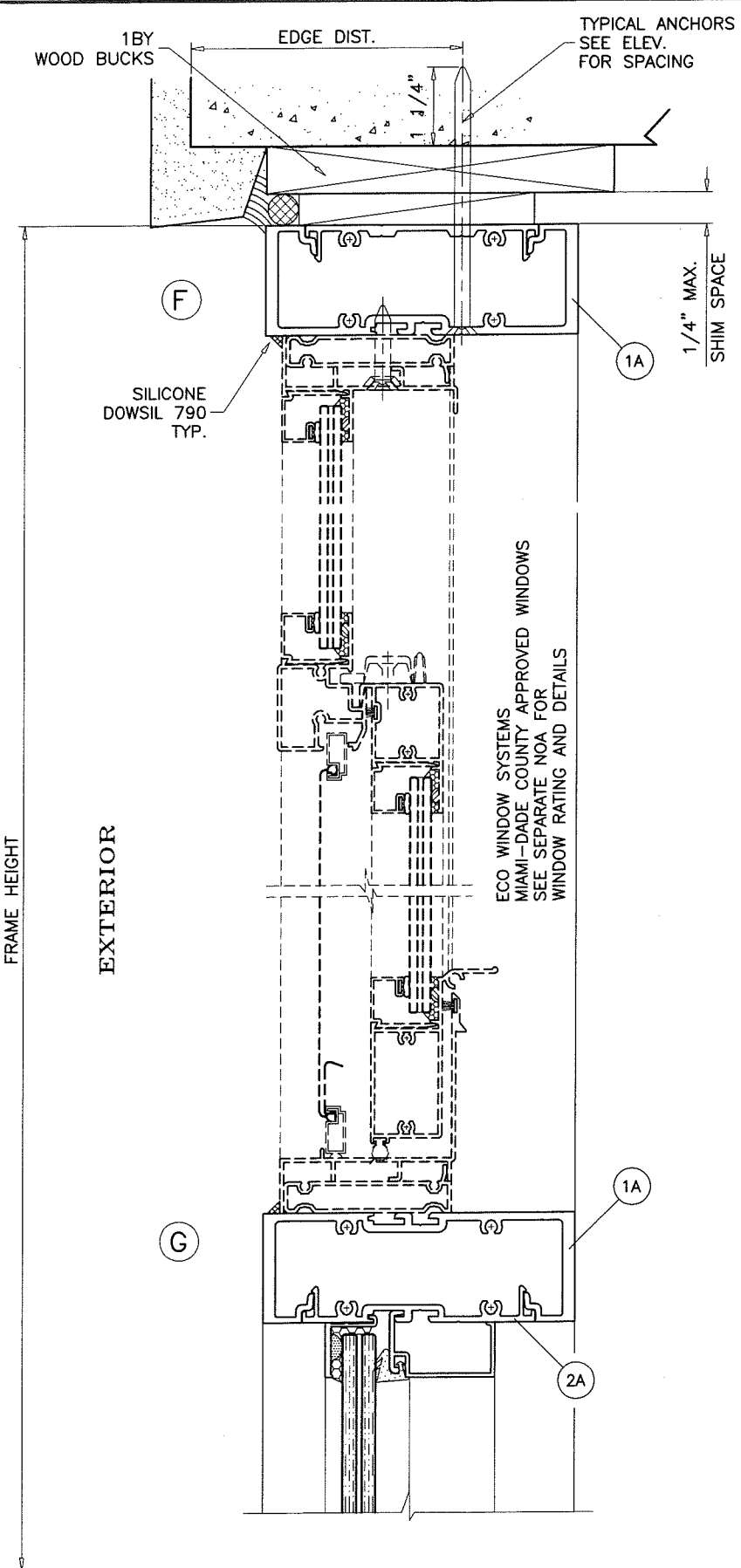
SERIES 400 ALUM WINDOW WALL SYSTEM (S.M.I.)
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902



A circular professional engineer seal for Javad Ahmad. The outer ring contains the text "JAVAD AHMAD" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top, "No. 70592" is in the center, and "STATE OF FLORIDA" is at the bottom. A signature is written across the seal, and the expiration date "APR 24, 2018" is stamped in the center.

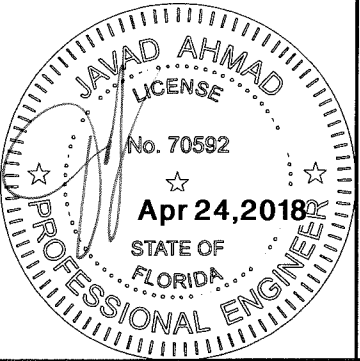
drawing no.	
W12-09	
sheet 7.1 of 9	
date: 03-02-12	
scale: 3/8" = 1"	
dr. by: TARIQ	
chk. by:	

revisions:	
no	date by description
E 04.13.18	CORNER MILLION ADDED



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-050304
Expiration Date 12/20/2022

By [Signature]
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

STORE W12-09ECO

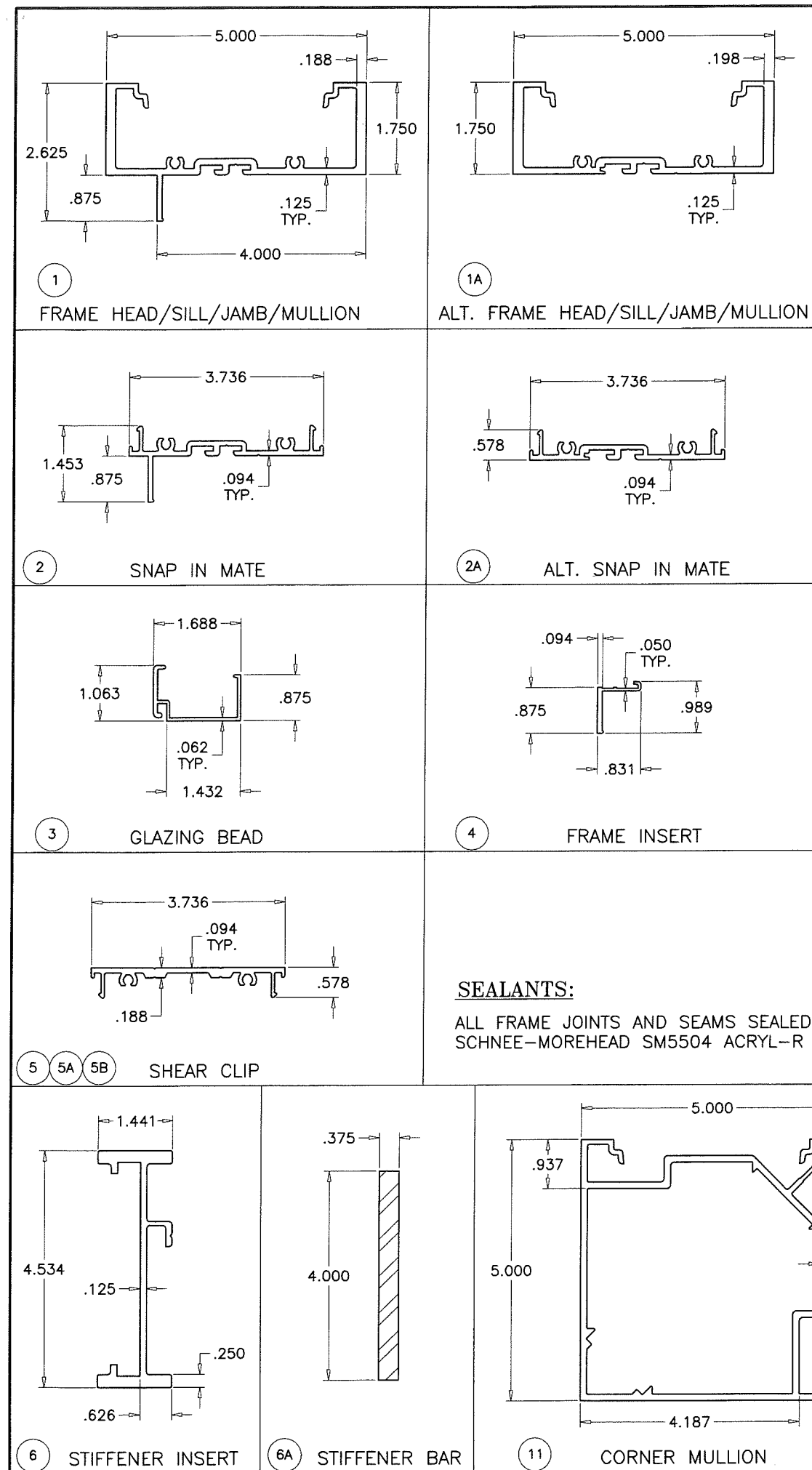
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ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th STREET
MEDLEY, FL. 33166
TEL. (305) 885-5299 FAX (305) 885-5902

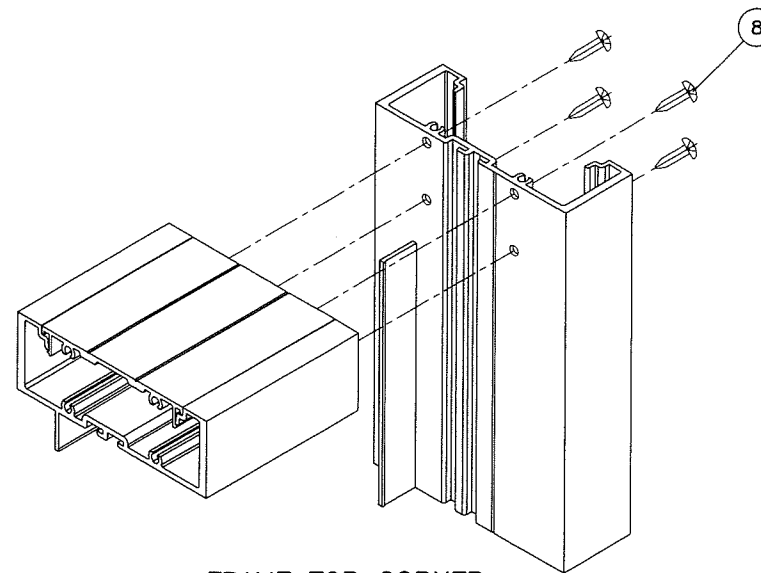
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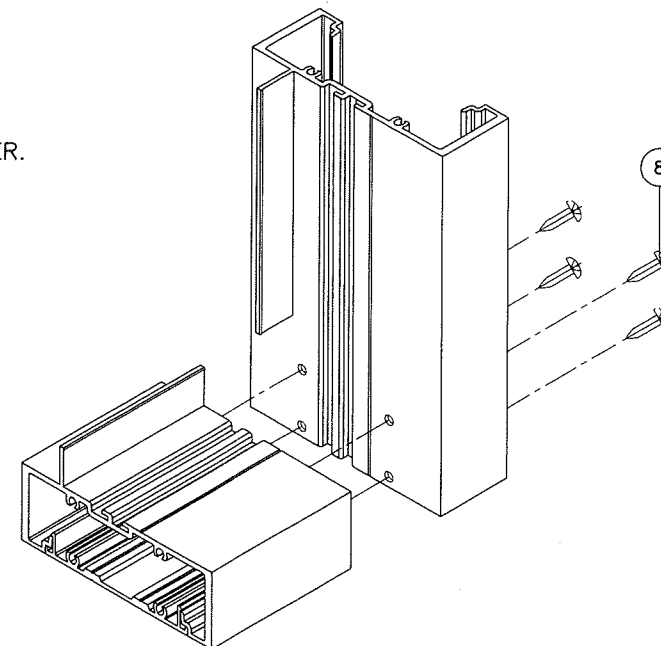
drawing no.
W12-09
sheet 8 of 9



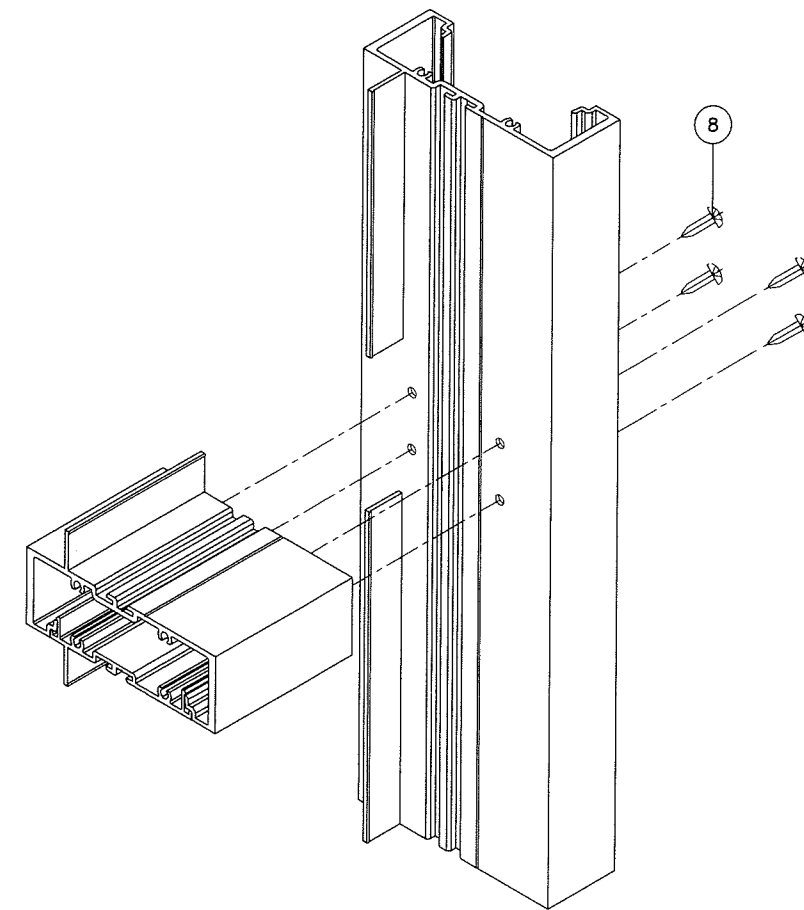
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	UW-401	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
1A	UW-407	AS REQD.	ALT. FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
2	UW-402	AS REQD.	SNAP-IN MATE	6063-T6	-
2A	UW-402	AS REQD.	ALT. SNAP-IN MATE	6063-T6	-
3	UW-404	AS REQD.	GLAZING BEAD	6063-T6	-
4	UW-408	AS REQD.	FRAME INSERT	6063-T6	-
5	UW-403	AS REQD.	SHEAR CLIP, 3-3/4" LONG AT JAMB ANCHORS	6063-T6	-
5A	UW-403	AS REQD.	SHEAR CLIP, FULL LENGTH	6063-T6	-
5B	UW-403	AS REQD.	SHEAR CLIP, LENGTH VARIES TO COVER ANCHOR SPACINGS	6063-T6	-
6	UW-408	AS REQD.	STIFFENER INSERT	6063-T6	-
6A	-	AS REQD.	STIFFENER BAR	GALV. STEEL	-
7	UW-406	AS REQD.	GLAZING GASKET	NEOPRENE	DUROMETER 55±5 SHORE A
8	#12 X 1-1/4"	4/ CORNER	FRAME ASSEMBLY SCREWS	-	PH SMS
9	-	2/ LITE	SETTING BLOCKS AT 1/4 POINTS (3/16" X 1/2" X 2" LONG)	EPDM	DUROMETER 80±5 SHORE A
10	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
11	UW-411	AS REQD.	CORNER MULLION	6063-T6	-



FRAME TOP CORNER



FRAME BOTTOM CORNER



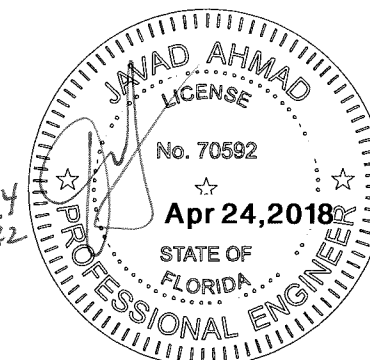
HORIZONTAL CORNER

SEALANTS:

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

PRODUCT REVISED
as complying with the Florida
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Expiration Date 12/20/2022

By: *[Signature]*
Miami Dade Product Control



af c

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sheet 9 of 9