



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
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Eco Window Systems, LLC 9114 NW 106 Street Medley, FL 33178

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, include ing the High Velocity Hurricane Zone.

DESCRIPTION: Series "400" Aluminum Window Wall System (with window inserts) - L.M.1.

APPROVAL DOCUMENT: Drawing No. W09-42, titled "Series 400 Alum. Window Wall System (L.M.I.)", sheets 1, 1.1, 2 and 3 through 9 of 9, dated 08/13/09, with revision C dated 01/13/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Section 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, 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 revises NOA# 12-0801.02 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 Manuel Perez, P.E.

MIAMI-DADE COUNTY
APPROVED

15/5/15

NOA No. 14-0910.07 Expiration Date: December 20, 2017 Approval Date: April 30, 2015

Page 1

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. W09-42, titled "Series 400 Alum Window Wall System (L.M.I.)", sheets 1 through 9 of 9, dated 08/13/09, with revision C dated 01/13/15, 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) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

- 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

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

**HETI-10-3129, dated 10/18/10, signed and sealed by Candido F. Font, P.E.

Submitted under previous NOA# 12-0801.02

- 3. 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 an aluminum window wall system, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. HETI-10-3071, HETI-10-3072, HETI-10-3073, HETI-10-3074 and HETI-10-3075, all dated 10/18/10, all signed and sealed by Candido F. Font, P.E. "Submitted under previous NOA# 12-0801.02"
- 4. Test reports on: 1) Safety Performance Test, (class A, Sec. 5) per ANSI Z97.1–1984 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 previous NOA# 12-0801.02"

Manuel Perez, P.E. Product Control Examiner NOA No. 14-0910.07

Expiration Date: December 20, 2017 Approval Date: April 30, 2015

Eco Window Systems, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with FBC-5th Edition (2014), prepared by Al-Farooq Corporation, dated 08/18/14 and 04/09/15, 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. 11–0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas@ Interlayer" dated 08/25/11, expiring on 01/14/17.
- 2. Notice of Acceptance No. 13-0129.27 issued to E.I. DuPont DeNemours & Go., Inc. for their "DuPont Butacite® PVB Interlayer" dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

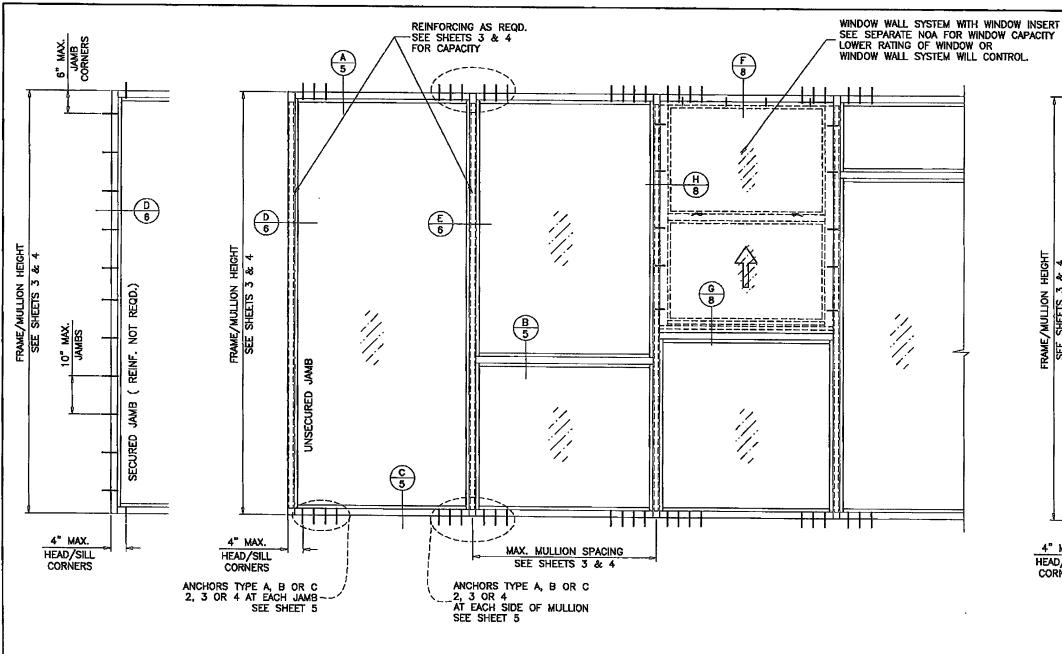
- 1. Statement letter of conformance, complying with FBC-5th Edition (2014), and of no financial interest, dated August 25, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Laboratory compliance letters for Test Reports No HETI-10-3071, HETI-10-3072, HETI-10-3073, HETI-10-3074, HETI-10-3075, HETI-10-3096 and HETI-10-3129, all issued by Hurricane Engineering & Testing, Inc., dated 10/18/10, and signed and sealed by Candido F. Font, P.E.
- 3. Proposal No. 10-0233R issued by the Product Control Section, dated 07/12/10, signed by Manuel Perez. P.E.
- 4. Proposal issued by the Product Control Section, dated 01/11/13, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.

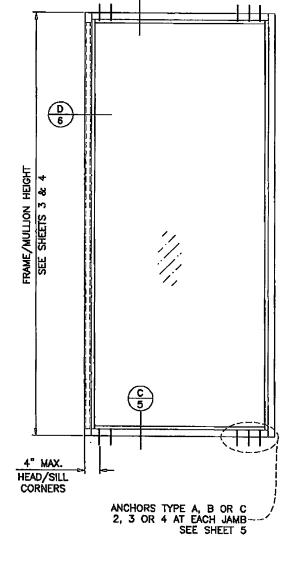
G. OTHERS

1. Notice of Acceptance No. 12-0801.02, issued to Eco Window Systems, LLC for their Series "400" Aluminum Window Wall System With Window Inserts – L.M.I, approved on 12/20/12 and expiring on 12/20/17.

Manuel Perez, P.E. Product Control Examiner NOA No. 14-0910.07

Expiration Date: December 20, 2017 Approval Date: April 30, 2015





SERIES 400 ALUM WINDOW WALL SYSTE

ECO WINDOW SYSTEMS,
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL (305) 885–5299 FAX (305) 888

PORATION EVELOPMENT

CORI

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SERIES 400 ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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 FLORIDA BUILDING CODE.

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.
- CHECK GLASS CAPACITY TABLE ON SHEET 2 FOR STEP 2 GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) AND PRESSURE CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- 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.
- THE LOWEST VALUE RESULTING FROM STEPS 2. 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

LARGE MISSILE IMPACT

Engr: JAVAD AHMAD CML FLA. PE # 70592 C.A.N. 3\$38

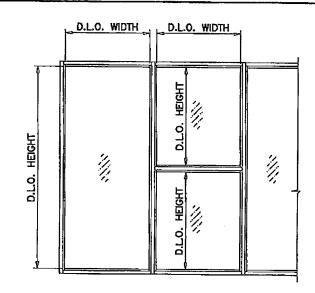
PRODUCT REVISED as complying with the Florida **Building Code** Building Code Acceptance No 14-0910.07 Expiration Date Dec. 20, 2017 9 2015 By Manuel Sie Manuel Control

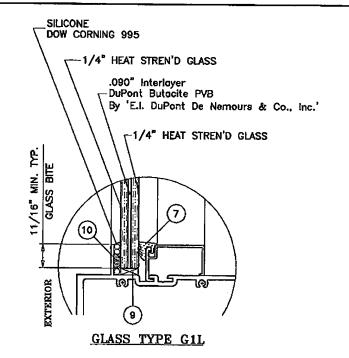
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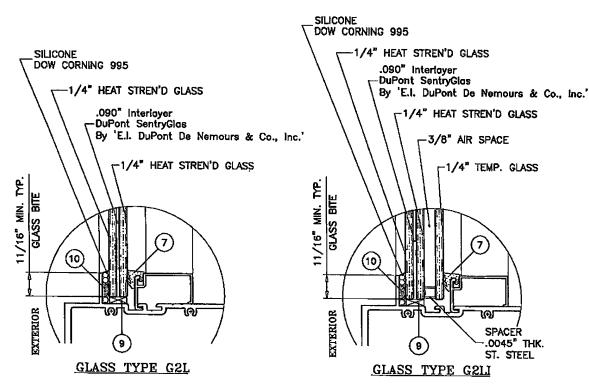
drawing no. W09-42

sheet 1 of 9

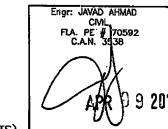
·	GLASS LOAD		TYPE	GLASS	TYPES
NOMINA	L DIMS.	i .	1L'	'G21' &	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"		65.0	75.0	80.0	130.0
38-1/2"	78-3/4"	65.0	75.0	80.0	130.0
44-1/2"	70~374	65.0	75.0	80.0	130.0
50-1/2"		65.0	75.0	80.0	130.0
56-1/2"		65.0	75.0	80.0	130.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2*		65.0	75.0	80.0	130.0
38-1/2"	D4 7/48	65.0	75.0	80.0	130.0
44-1/2"	84-3/4"	65.0	75.0	80.0	130.0
50-1/2°		65.0	75.0	80.0	130.0
56-1/2"	!	65.0	75.0	80.0	100.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"		65.0	75.0	80.0	130.0
38-1/2"	00.3/4	65.0	75.0	80.0	130.0
44-1/2°	90~3/4"	65.0	75.0	80.0	130.0
50"		65.0	75.0	80.0	130.0
50-1/2"		65.0	75.0	80.0	100.0
56-1/2"		65.0	75.0	80.0	100.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"		65.0	75.0	80.0	130.0
38-1/2"		65.0	75.0	80.0	130.0
44-1/2°	96-3/4"	65.0	75.0	80.0	130.0
47 "		65.0	75.0	80.0	130,0
50-1/2"		65.0	75.0	80.0	100.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"		65.0	75.0	80.0	130.0
38-1/2"	400 - 418	65.0	75.0	80.0	130.0
44"	102-3/4"	65.0	75.0	80.0	130.0
44-1/2"		65.0	75.0	80.0	100.0
49"		65.0	75.0	80.0	100.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"		65.0	75.0	80.0	130.0
381/2"	400 7/47	65.0	75.0	80.0	130.0
41"	108-3/4"	65.0	75.0	80.0	130.0
44-1/2"		65.0	75.0	80.0	100.0
47"		65.0	75.0	80.0	100.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"	i	65.0	75.0	80.0	130.0
38-1/2"	944 574	65,0	75.0	80.0	130.0
39"	114-3/4"	65.0	75.0	80.0	130.0
44-1/2"		65.0	75.0	80.0	100.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"	120 7/4	65.0	75.0	80.0	130.0
37"	120-3/4"	65.0	75.0	80.0	130.0
38-1/2"		65.0	75.0	80.0	100.0
42"	}	65.0	75.0	80.0	100.0
26-1/2"		65.0	75.0	80.0	130.0
32-1/2"		65.0	75.0	80.0	130.0
35"	126-3/4"	65.0	75.0	80.0	130.0
38-1/2"		65.0	75.0	80.0	100.0
40"	!		 	- 55.5	. 50.0







GLAZING OPTIONS



PRODUCT REVISED as complying with the Florida Building Code Building Code
Acceptance No
Expiration Date
Dec. 20, 2017
By
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By
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Dade Product Control

drawing no. W09 - 42

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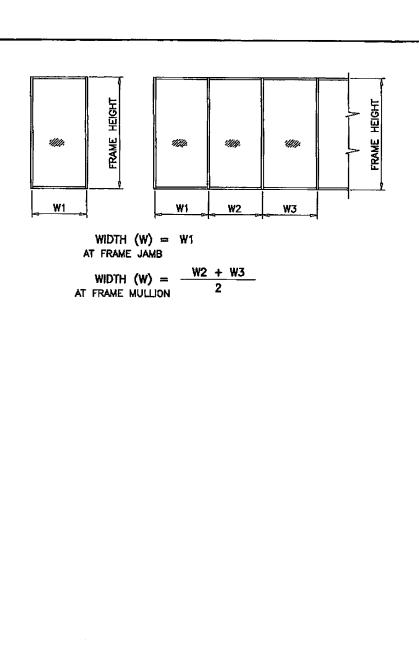
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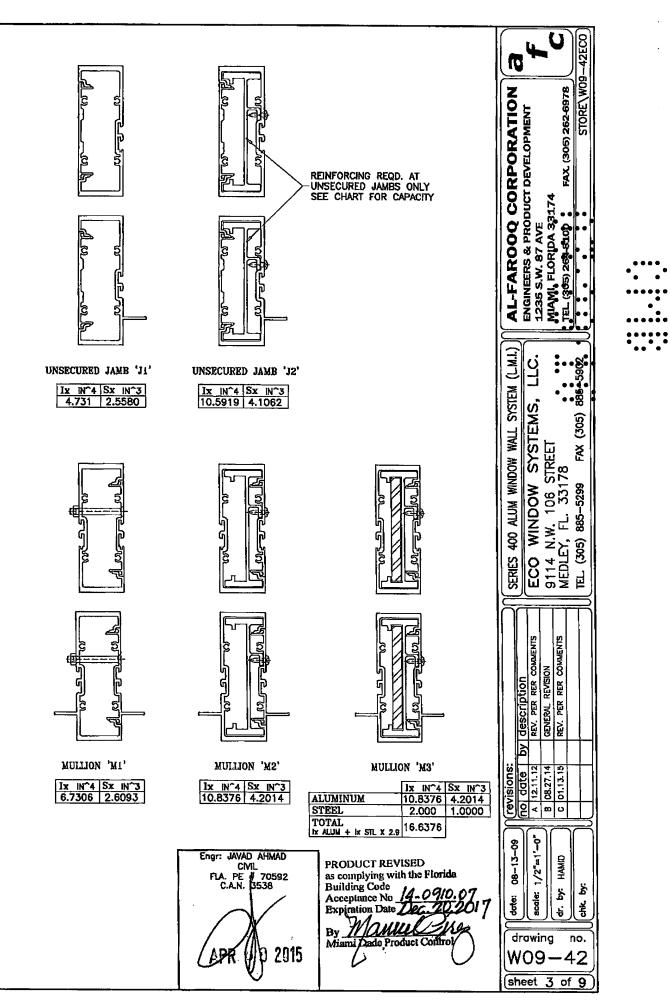
NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS). sheet 2 of 9

by description

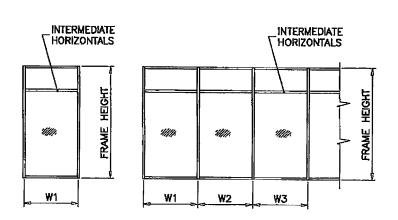
revisions: no date B 08.27.14

	AMB & MUL MBS & MULLION	S MULHOF	T INTERA	IEDIATE H	ORIZONTA		
NOMIN	AL DIMS.		'11' 'M1'		, 'M2'		. 'M3'
WIDTH (W)	Frame Height	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-
30°		80.0	100.0	80.0	100.0	80.0	130.0
36"		80.0	100.0	80.0	100.0	80.0	130.0
42°	84"	80.0	100.0	80.0	100.0	80.0	130.0
48"	67	80.0	100.0	80.0	100.0	80.0	130.0
54 [#]		80.0	100.0	80.0	100.0	80.0	130.0
60"		80.0	100.0	80.0	100.0	80.0	130.0
30°		80.0	100.0	80.0	100.0	80.0	130.0
36"		80.0	100.0	80.0	100.0	80.0	130.0
42°	200	80.0	100.0	80.0	100.0	89.0	130.0
48"	90"	80.0	100.0	80.0	100.0	80.0	130.0
54°		80.0	100.0	80.0	100.0	80.0	130.0
60"		80.0	94.8	80.0	100.0	0.08	130.0
30"		80.0	100.0	80.0	100.0	80.0	130.0
36°		80.0	100.0	80.0	100.0	80.0	130.0
42"		80.0	100.0	80.0	100.0	80.0	130.0
48"	96"	80.0	95.9	80.0	100.0	80.0	130.0
54°		80.0	87.3	80.0	100.0	80.0	130.0
60"		80.0	80.9	80.0	100.0	80.0	130.0
30"		80.0	100.0	80.0	100.0	80.0	130.0
36°		80.0	100.0	80.0	100.0	80.0	130.0
42 "		80.0	90.3	80.0			
48 "	102"	80.0	80.8	80.0	100.0	80.0	130.0
54°	102	73.6	73.6	80.0	100.0	80.0	130.0
56°		71.7	71.7			80.0	130.0
60°			/1./	80.0	100.0	80.0	130.0
30"		90.0	100.0	50.0	400.0	80.0	129.0
36"		80.0	100.0	80.0	100.0	80.0	130.0
42°		80.0	86.6	80.0	100.0	80.0	130.0
42 48*	108	75.5	75.5	80.0	100.0	80.0	130.0
·	106	67.4	67.4	80.0	100.0	80.0	130.0
53 "	· '	62.1	62.1	80.0	99.2	80.0	130.0
54 "		<u> </u>			-	80.0	123.4
60°			700	-	422.5	80.0	113.4
30°		80.0	85.9	80.0	100.0	80.0	100.0
36" 40"		73.3	73.3	80.0	100.0	80.0	100.0
42"	4	63.8	63.8	80.0	100.0	80.0	100.0
48°	114"	56.8	56,8	80.0	95.0	80.0	100.0
50"		54.9	54.9	80.0	91.6	80.0	100.0
54"]	<u> </u>	_	-	<u> </u>	80.0	80.0
60"		-	-		<u> </u>	80.0	80.0
30"		74.3	74.3	80,0	100.0	80.0	100.0
36"	1	62.6	62.6	80.0	100.0	80.0	100.
42"	120"	54.4	54.4	80.0	91.2	80.0	100.0
48"		48.3	48.3	80.0	81.1	60.0	100.0
54"		<u> </u>	-			80.0	80.0
60"	<u> </u>		-	-	-	80.0	80.0
30"			-		<u> </u>	80.0	80.0
36"	126"	<u> </u>	<u> -</u>		<u> </u>	80.0	80.0
42"	ļ	<u> </u>		-	_	80.0	80.0
30"			<u> </u>	-	<u> </u>	80.0	80.0
36°	132"	_	-	<u> </u>		60.0	80.0
42"	ſ	\ -		-	-	80.0	80.0





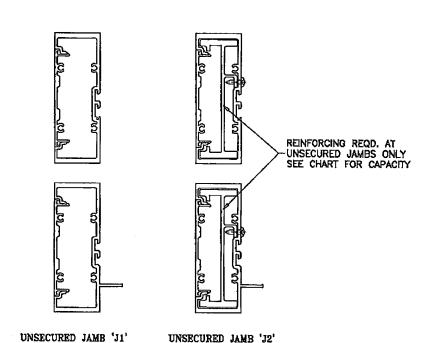
	IBS & MUTTION						
NOMINA	AL DIMS.		'נג' נוע'. 'נג' נוג'	1	, N2,		3 'J2' . 'M3'
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	(-).TAI	EXT.(+)	INT.(-
30°		80.0	100.0	80.0	100.0	80.0	130.0
36"		80.0	100.0	80.0	100.0	80.0	130.0
42"		80.0	100.0	80.0	<u> </u>		
48°	84"				100.0	80.0	130.0
		80.0	100.0	80.0	100.0	80.0	130.0
54"		80.0	100.0	80.0	100.0	80.0	130.0
60"		80.0	93.8	80.0	100.0	80.0	130.0
30"		80.0	100.0	80.0	100,0	80.0	130.0
36"		80.0	100.0	80.0	100.0	80.0	130.0
42"	90"	80.0	100.0	80.0	100.0	80.0	130.0
48"	80	80.0	100.0	80.0	100.0	80.0	130.0
54"		80.0	89.9	80.0	100.0	80.0	130.0
60"		80.0	80.9	80.0	100.0	80.0	130.0
30°		80.0	100.0				
				80.0	100.0	80.0	130.0
36°		80.0	100.0	80.0	100.0	80.0	130.0
42"	96°	80.0	100.0	80.0	100.0	80.0	130.0
48"		80.0	68.1	80.0	100.0	80.0	130.0
54"		78.3	78.3	0.08	100.0	80.0	130.0
60"		70.5	70.5	80.0	100.0	80.0	129.1
30"		80.0	100.0	80.0	100.0	80.0	130.0
36"		80.0	98.6	80.0	100.0	80.0	130.0
42"		80.0	84.5	80.0	100.0	0.08	130.0
48"	102"	73.9	73.9	80.0	100.0		
54°						80.0	130.0
		65.7	65.7	0.08	100.0	80.0	130.0
56"		63.4	63.4	80.0	99,4	60.0	127.1
60"					-	80.0	114.3
30 "	,	80.0	99.6	80.0	100.0	80.0	130.0
36"		80.0	83.0	80.0	100.0	80.0	130.0
42"		71.2	71.2	80.0	100.0	80.0	130.0
48"	108	62.3	62.3	80.0	100.0	80.0	130.0
53"		56.4	56.4	80.0	93.6	80.0	127.5
54"		_	_		-	80.0	113.3
60°	ì	_	-	_		80.0	102.0
30*		80.0	84.7	80.0	100.0	80.0	100.0
36"		70.6			-		
			70.6	80.0	100.0	80.0	100.0
42"	4 - 48	60.5	60.5	80.0	100.0	80.0	100.0
48"	114"	52.9	52.9	80.0	88.8	80.0	100.0
50"		50.8	50.8	0.08	85.3	80.0	100.0
54"		-	_			80.0	80.0
60°			_			0.08	0.08
30"		72.6	72.6	80.0	100.0	80.0	100.0
36"		60.5	60.5	80.0	100.0	80.0	100.0
42°	, .	51.9	51.9	80.0	87.0	80.0	100.0
48"	120"	45.4	45.4	76.2	76.2	80.0	94.0
54"					70.2		
60°		-	-	 _ _		80.0	80.0
			-	-	-	80.0	80.0
30"				-		80.0	80.0
36"				<u> </u>		80.0	80.0
42"	126"	-			_	80.0	80.0
48 "	120			<u>_</u> -		80.0	80.0
54"		-	_	-	_	80,0	80.0
60°		_	_	_	_	74.9	74.9
30°		_	_	 _ 		80.0	80.0
36"				-	├ 		
			-	- -	 -	80.0	80.0
42"	132"		<u> </u>	<u> </u>		80.0	80.0
48*					<u> </u>	80.0	80.0
	1	ı <u> </u>	I -	ı –	! —	75.9	75.9
54°							

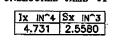


AT FRAME JAMB W2 + W3WIDTH (W) =AT FRAME MULLION

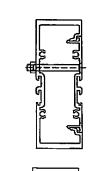
WIDTH (W) = W1

· -- .



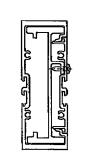


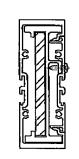
Ix IN^4 Sx IN^3 10.5919 4.1062

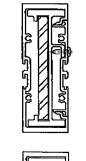


MULLION 'M1'

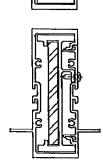
Ix IN^4 Sx IN^3 6,7306 2.6093





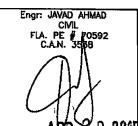






|--|

MAITTION ,MS,	MULLIC	ои ,из,	
Ix IN^4 Sx IN^3 10.8376 4.2014	ALUMINUM STEEL TOTAL by Alun + ix Sil x 2.9	10.8376 2.000	1.0000



PRODUCT REVISED as complying with the Florida Building Code 14-0910.07 Acceptance No Expiration Date Dec 20,2017

08-13-09

scale: 1/2"=1"-0"

dr. by: HANID

ohk. by: drawing no. W09-42 sheet 4 of 9

FAX (305) 262-6978 STORE\WO

:::::

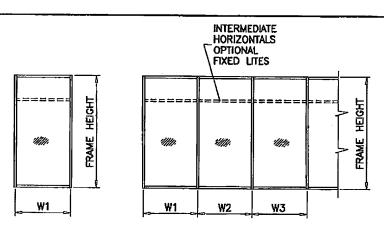
FAROOQ CORPORATION NEERS & PRODUCT DEVELOPMENT

SERIES 400 ALUM WINDOW WALL SYSTEM (LM.I.)

ECO WINDOW SYSTEMS, LLC.
9114 N.W. 106 STREET
MEDLEY, FL. 33178
TEL (305) 885-5299 FAX (305) 885-\$903.

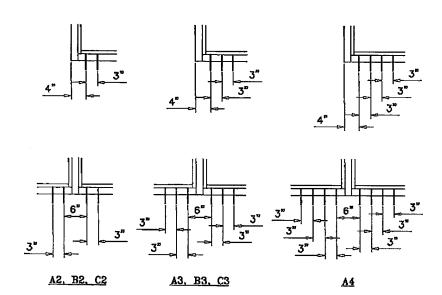
APR 9 2019

		EXT	OAD CAP	п.(~)	ror		
NOMIN	AL DIMS.	ANCH	IORS TYP	E 'A'	ANCHOR	S TYPE '	B, % ,C,
WIDTH (W)	FRAME HEIGHT	SA	£A.	A4	BS/CS	B3/C3	B4/C4
30°		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"	84"	87.8	130.0	130.0	112.3	130.0	130.0
48"	04	76.9	115.3	130.0	98.3	130.0	130.0
54"		68.3	102.5	130.0	87.4	130.0	130.0
60°		61.5	92.2	123.0	78.6	117.9	130.0
30"		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"	90"	82.0	123.0	130.0	104.8	130.0	130,0
48"	90	71.7	107.6	130.0	91.7	130.0	130,0
54"		63.8	95.6	127.5	81.5	122.3	130.0
60°		57.4	86.1	114.8	73.4	110.1	130.0
30"		107.6	130.0	130.0	130.0	130.0	130.0
36"	i	89.7	130.0	130.0	114,7	130.0	130.0
42"	96"	76.9	115.3	130.0	98.3	130.0	130.0
48"	96	67.3	100.9	130.0	86.0	129.0	130.0
54"		59.8	89.7	119.6	76.4	114.7	130.0
60°		53.8	80.7	107.6	68.8	103.2	130.0
30"		101.3	130.0	130.0	129.5	130.0	130.0
36"	ļ	84.4	126.6	130.0	107.9	130.0	130.0
42°	102"	72.3	108.5	130.0	92.5	130.0	130.0
48*	102	63.3	94.9	126.6	80.9	121.4	130.0
54"		56.3	84.4	112.5	71.9	107.9	130.0
60°	<u> </u>	50.6	76.0	101.3	64.8	97.1	129.5
30"		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"	1000	68.3	102.5	130.0	87.4	130.0	130.0
48°	108"	59.8	89.7	119.6	76.4	114.7	130.0
54°		53.1	79.7	106.3	68.0	101.9	130.0
60°		47.8	71.7	95.6	61.2	91.7	122.3
30"		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"	114°	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
54"		50.3	75.5	100.7	64.4	96.6	128.7
60°		45.3	68.0	90.6	57.9	86.9	115.9
30"	1	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"	120"	61.5	92.2	123.0	78.6	117.9	130.0
48"	120	53.8	80.7	107.6	68.8	103.2	130.0
54"		47.8	71.7	95.6	61.2	91.7	122.3
60°		43.0	64.6	86.1	55.0	82.6	110.1
30"		82.0	123.0	130.0	104.8	130.0	130.0
36°]]	68.3	102.5	130.0	87.4	130.0	130.0
42"	106"	58.6	87.8	117.1	74.9	112.3	130.0
48°	126"	51.2	76.9	102.5	65.5	98.3	130.0
54°		45.5	68.3	91.1	58.2	87.4	116.5
60°		41.0	61.5	82.0	52.4	78.6	104.8
30°		78.3	117.4	130.0	100.1	130.0	130.0
36"		65.2	97.8	130.0	83.4	125.1	130.0
42"		55,9	83.8	111.8	71.5	107.2	130.0
48"	132*	48.9	73.4	97.8	62.5	93.8	125.1
54		43.5	65.2	86.9	55.6	83.4	111.2
60°		39.1	58.7	78.3	50.0	75.1	100.1



WIDTH (W) = W1AT FRAME JAMB

<u>W2</u> + W3 WIDTH (W) =AT FRAME MULLION



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

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

Engr: JAVAD AHMAD CML FLA. PE # 70592 C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0910.07
Expiration Date
Dec. 10, 2017
By Manual Street
Miami/Dade Product Control

	ľ			
date: 08-13-09		revisions:		
Ш	2	no date	λo	description
scale: 1/2"=1"-0"	∢	A 12.11.12	Г	NO CHANGE TH
	m	8 08.27.14		GENERAL REVIS
dr. by: HAMID	O	C 01.13.15		REV. PER RER
thk. by:	L			

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

WINDOW SYSTEMS, LLC.

N.W. 106 STREET

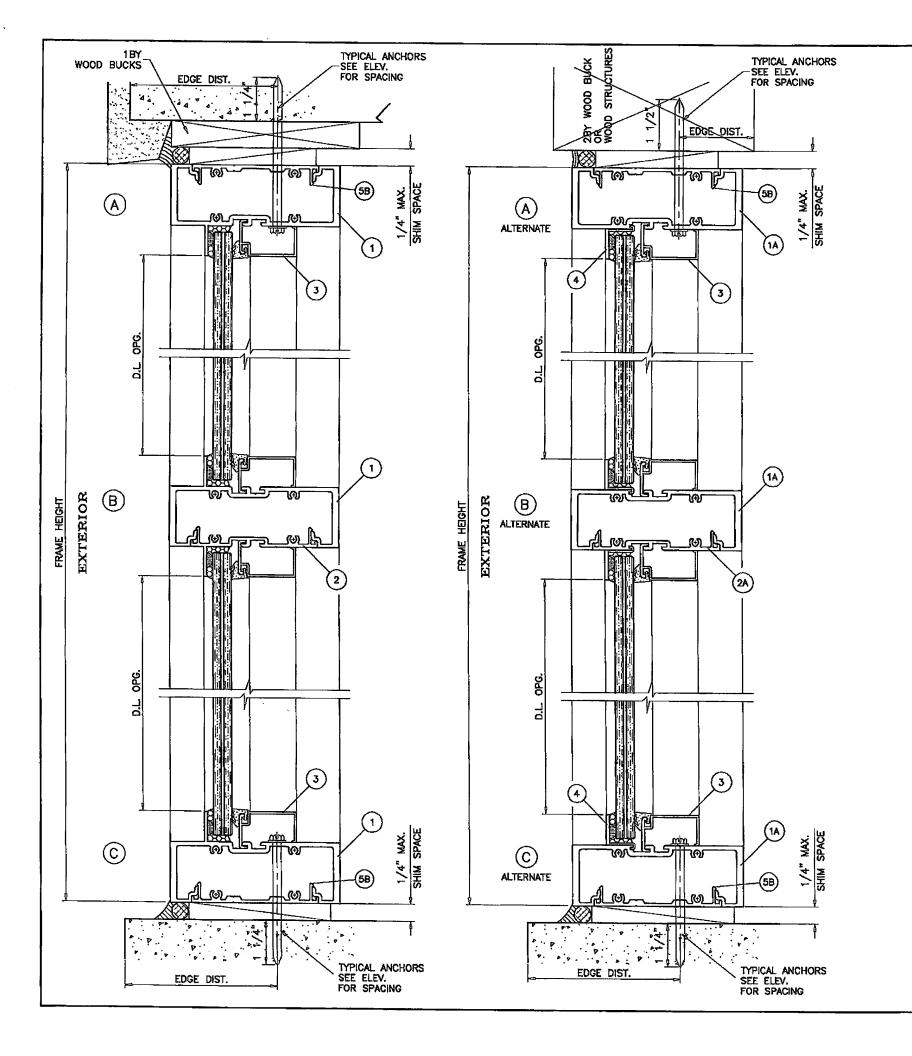
EY, FL. 33178

105) 885—5299 FAX (305) 885—5902.

drawing no. W09-42 sheet 5 of 9

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OOQ CORPORATION & PRODUCT DEVELOPMENT



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 WITH 1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE

DIRECTLY INTO CONCRETE OR MASONRY WITH 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

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

WITH 1-7/8" MIN. PENETRATION INTO WOOD

THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE

DIRECTLY INTO CONCRETE OR MASONRY WITH 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 3" MIN. INTO WOOD STRUCTURE = $1-1/4^{\circ}$ MIN.

#14 SMS OR SELF DRILLING SCREWS ST/ST (GRADE 2 CRS)

INTO METAL STRUCTURES

STEEL: 12 GA. MIN. (Fy = 36 KSI MIN.) ALUMINUM: 1/8" THK. MIN. (6063-T5 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 I'C = 3000 PSI MIN. C-90 HOLLOW/FILLED BLOCK AT JAMBS I'm = 2000 PSI MIN.

SEALANTS:

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

> Engr: JAVAD AHMAD CML FLA. PE # 70592 C.A.N. 3538 MPR 0 9 2015

PRODUCT REVISED as complying with the Florida Building Code Acceptance No /4-0910.07 Expiration Date Dec. 20, 2017 O

CORPORATION
DUCT DEVELOPMENT

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SERIES 400 ALUM ECO WINDC 9114 N.W. 10 MEDLEY, FL. TEL (305) 885-5 revisions: no date A 12.11.12 B 08.27.14 C 01.13.15 08-13-09

ALUM WINDOW WALL
ADOW SYSTEN
106 STREET
L. 33178
55-5299 FAX (303)

scale: dr. by: date: drawing no. W09-42 sheet 6 of 9

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