



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

RECEIVED AUG 25 2004

NOTICE OF ACCEPTANCE (NOA)

**R. C. Aluminum Industries, Inc.
2805 NW 75th Ave.
Miami, FL 33122**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 FX100 Aluminum Fixed Window -L.M.I.

APPROVAL DOCUMENT: Drawing No. **W04-44**, titled "Series FX100 Aluminum Fixed Window (L.M.I.)", sheets 1 through 4 of 4, prepared by AL-Farooq Corporations, dated 05/29/04 with revision "A" on 07/09/04, signed and sealed by Humayoun 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 Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 page E-1, and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**

7/29/04
jm



**NOA No 04-0608.04
Expiration Date: August 19, 2009
Approval Date: August 19, 2004
Page 1**

R.C. Aluminum Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS


1. Manufacturer's die drawings and sections.
2. Drawing No. **W04-44**, titled "Series FX100 Aluminum Fixed Window L.M.I.", sheets 1 through 4 of 4, prepared by AL-Farooq, dated 05/29/04, with revision "A" on 07/09/04, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a aluminum fixed window, prepared Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1346**, dated September 16, 2003, 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) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94
along with marked-up drawings and installation diagram of a aluminum fixed window, prepared Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1350**, dated October 16, 2003, signed and sealed by Rafael E. Droz-Seda, P.E.
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 a aluminum fixed window, prepared Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1856**, dated September 17, 2003, signed and sealed by Rafael E. Droz-Seda, P.E.
4. 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 aluminum fixed window, prepared Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1859**, dated January 16, 2004, signed and sealed by Rafael E. Droz-Seda, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300, and structural analysis, prepared by AL-Farooq Corporation, dated 05/28/04 signed and sealed by Humayoun Farooq, P.E.



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 04-0608.04

Expiration Date: August 19, 2009
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R.C. Aluminum Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

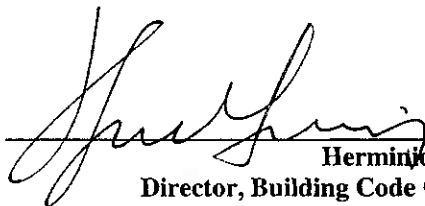
1. Notice of Acceptance No. **00-1212.04**, issued to E.I. DuPont DeNemours for "Duponut Butacite ® PVB", approved on 02/15/01 and expiring on 12/11/05.

F. STATEMENTS

1. Statement letter of Compliance, dated May 28, 2004 signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated May 28, 2004 signed and sealed by Humayoun Farooq, P.E.

G. OTHER

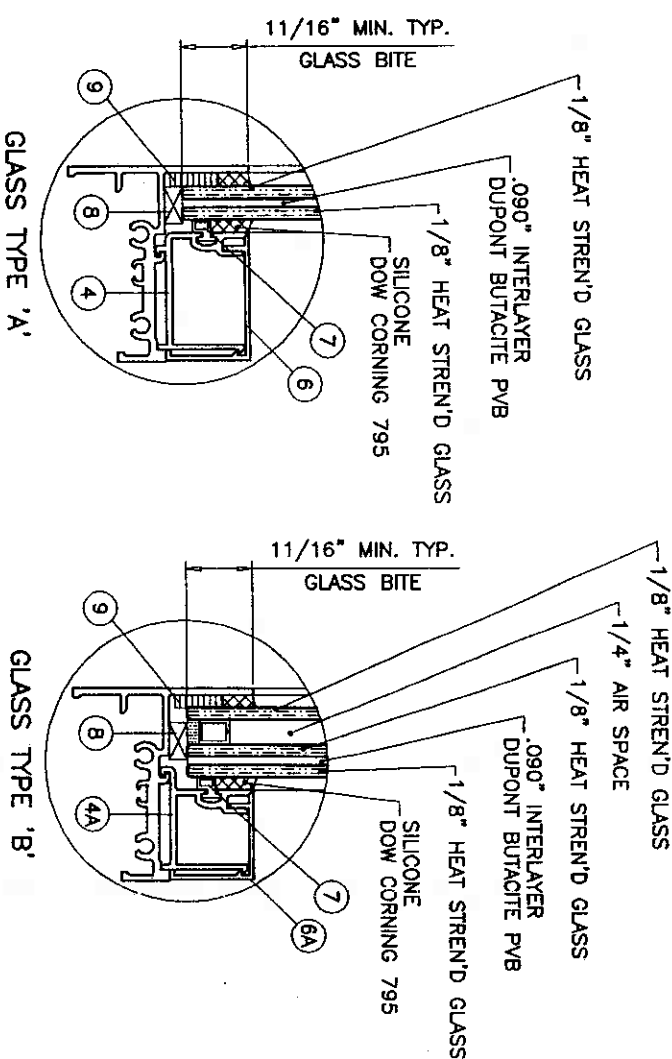
1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 04-0608.04

Expiration Date: August 19, 2009
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WINDOW DIMS.		GLASS TYPES 'A' & 'B'	
WIDTH	LENGTH	EXT.(+)	INT.(-)
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"	38-3/8"	80.0	80.0
37"		77.1	77.1
42"		77.1	77.1
48"		77.1	77.1
53-1/8"		77.1	77.1
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"	48"	80.0	80.0
37"		80.0	80.0
42"		70.5	70.5
48"		61.7	61.7
53-1/8"		61.7	61.7
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"		80.0	80.0
30"	50-5/8"	80.0	80.0
37"		80.0	80.0
42"		70.5	70.5
48"		61.7	61.7
53-1/8"		58.5	58.5
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"	60"	80.0	80.0
30"		80.0	80.0
37"		80.0	80.0
42"		70.5	70.5
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"	63"	80.0	80.0
30"		80.0	80.0
37"		79.3	79.3
42"		70.5	70.5
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"	66"	80.0	80.0
30"		80.0	80.0
37"		75.6	75.6
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"	72"	80.0	80.0
30"		80.0	80.0
37"		67.5	67.5
19-1/8"		80.0	80.0
24"		80.0	80.0
26-1/2"	74-1/4"	80.0	80.0
30"		80.0	80.0
37"		65.5	65.5



GLAZING OPTIONS

FX100 ALUMINUM FIXED WINDOWS

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

APPROVAL APPLIES TO SINGLE WINDOWS ALSO SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS.

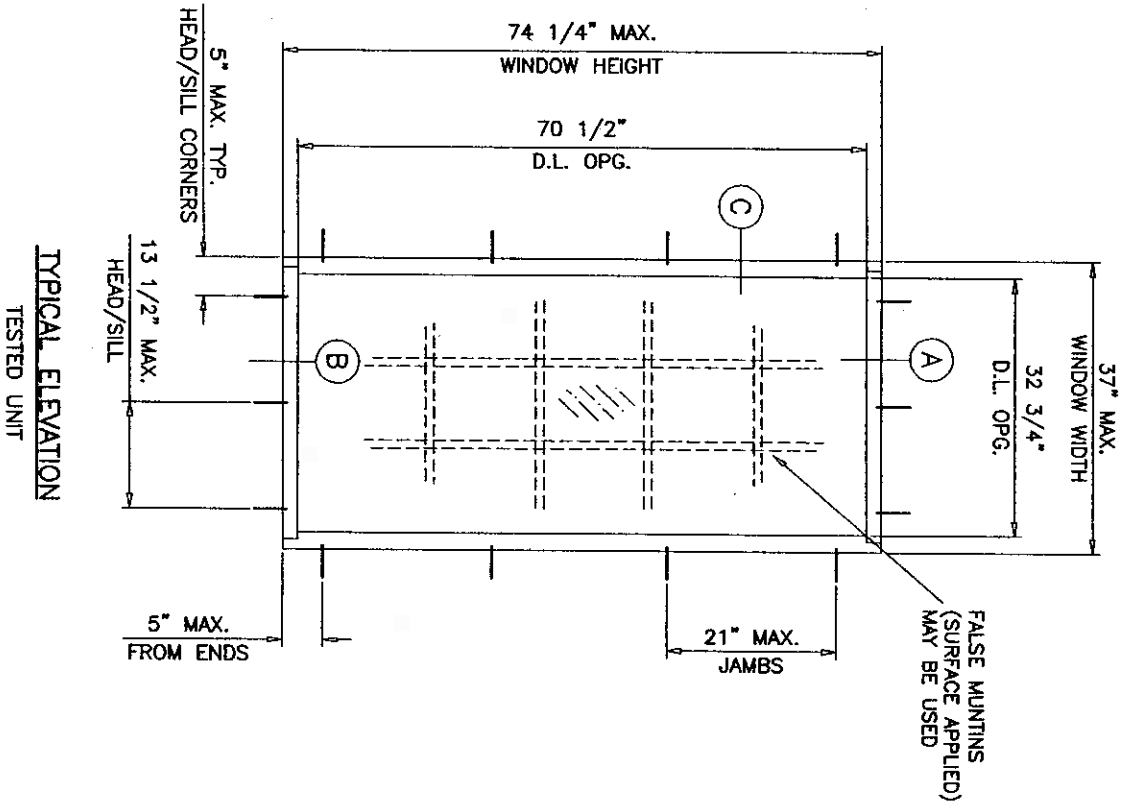
THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE.

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

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR 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 33% INCREASE IN ALLOWABLE STRESS WAS USED IN DESIGN OF ANCHORS.



TYPICAL ELEVATION TESTED UNIT

WINDOWS GLAZED WITH LAMINATED GLASS RATED FOR LARGE MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.

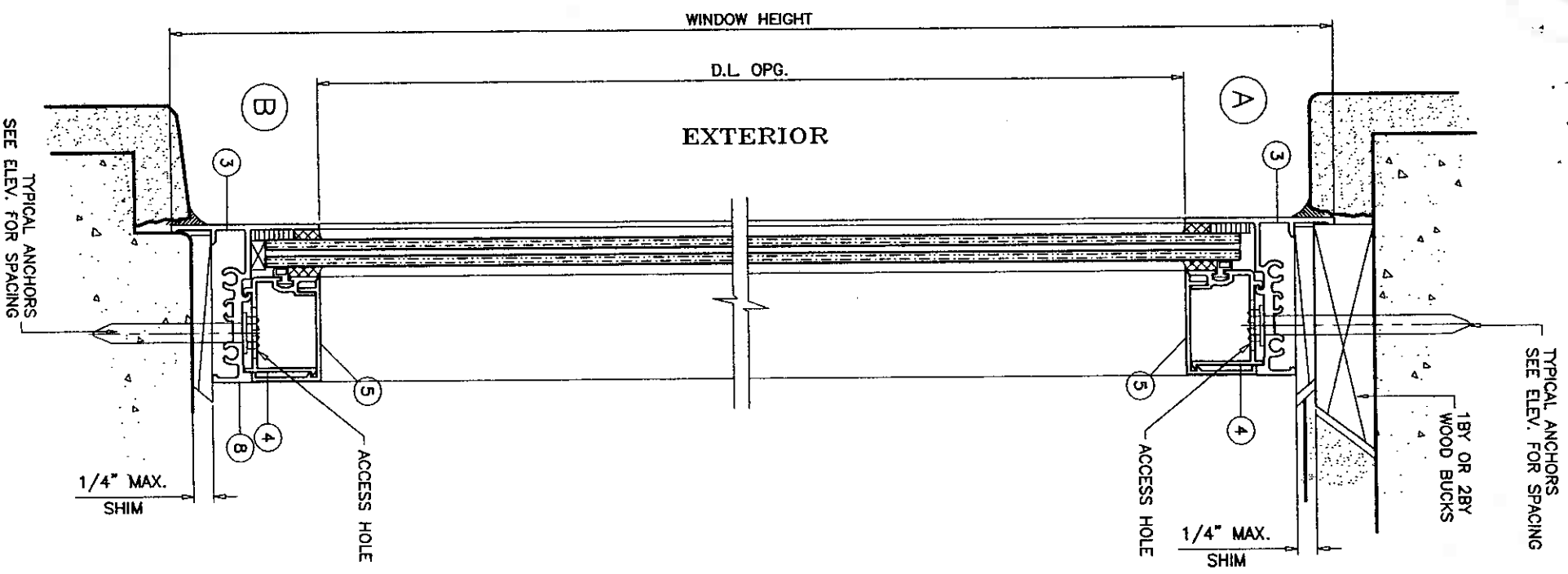
Approved as complying with the Florida Building Code
Date 08/19/04
NOAH 08-01208-04
Miami-Dade Product Control
Division
By *[Signature]*

Engr. DR. HUSAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
CA.N. 5538

JUL 15 2004

drawing no. W04-44	date: 05-29-04 scale: 1/2"=1'-0" dr. by: HAMID chk. by:	revisions: <table border="1"> <thead> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>07.09.04</td> <td></td> <td>NO CHANGE THIS SHEET</td> </tr> </tbody> </table>	no	date	by	description	A	07.09.04		NO CHANGE THIS SHEET	FX100 ALUMINUM FIXED WINDOW (L.M.I.) R.C. ALUMINUM INDUSTRIES INC. 2805 N.W. 75 TH AVE. MIAMI, FL. 33122 TEL. (305) 592-1515 FAX. (305) 592-2184	AL-FAROOQ CORPORATION ENGINEERS, PLANNERS & PRODUCT DESIGN 1235 SW 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978	
no	date	by	description										
A	07.09.04		NO CHANGE THIS SHEET										

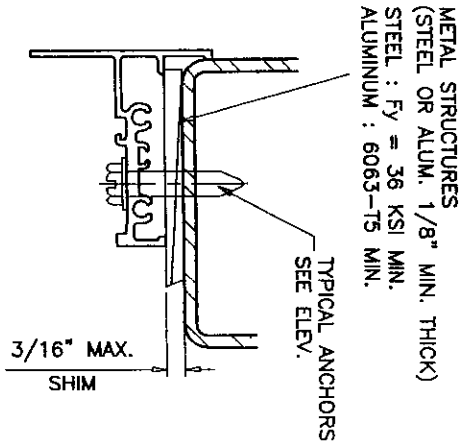
RECEIVED AUG 25 2004



TYPICAL ANCHORS
SEE ELEV. FOR SPACING

1BY OR 2BY
WOOD BUCKS

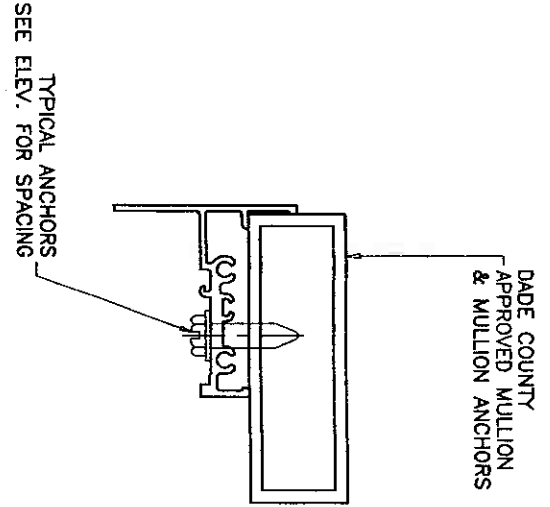
1/4" MAX.
SHIM



METAL STRUCTURES
(STEEL OR ALUM. 1/8" MIN. THICK)
STEEL : Fy = 36 KSI MIN.
ALUMINUM : 6063-T5 MIN.

TYPICAL ANCHORS
SEE ELEV.

3/16" MAX.
SHIM



DADE COUNTY
APPROVED MULLION
& MULLION ANCHORS

TYPICAL ANCHORS
SEE ELEV. FOR SPACING

WOOD BUCKS NOT BY RC ALUMINUM, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" HILTI KWIK-CON II
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD

THRU 1BY WOOD BUCKS INTO
3000 PSI MIN. CONC. OR C-90 GROUT FILLED BLOCK
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

1/4" HILTI KWIK-CON II
DIRECTLY INTO
3000 PSI MIN. CONC. OR C-90 GROUT FILLED BLOCK
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR 1/4-20 TKS SELF DRILLING SCREWS
INTO METAL STRUCTURES
(STEEL OR ALUMINUM 1/8" MIN. THICK.)

STEEL : Fy = 36 KSI MIN.
ALUMINUM : 6063-T5 MIN.

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD = 1" MIN.

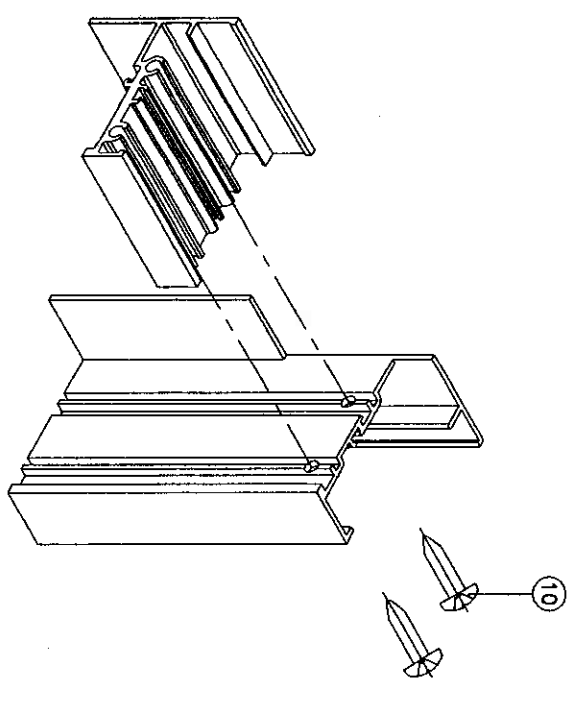
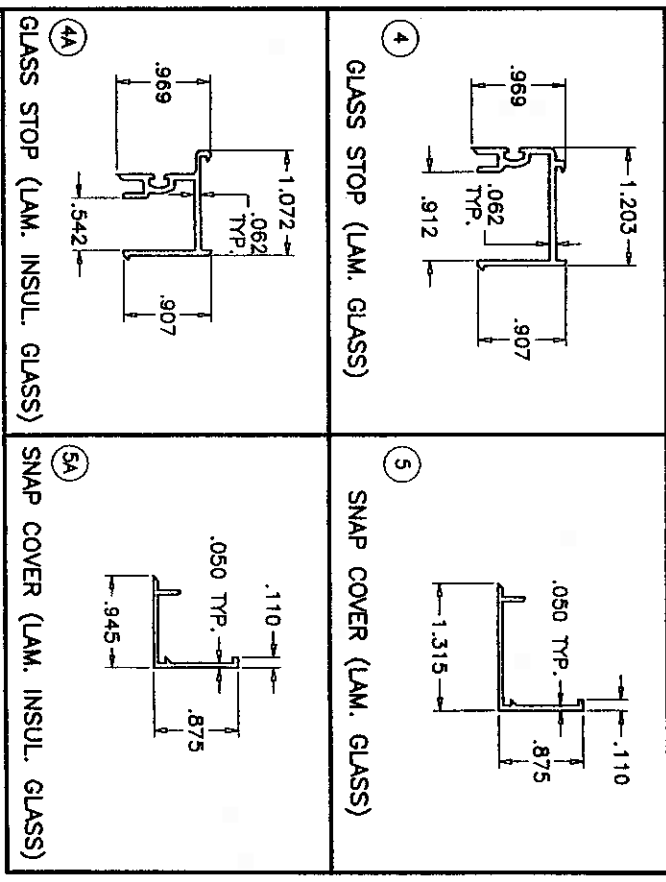
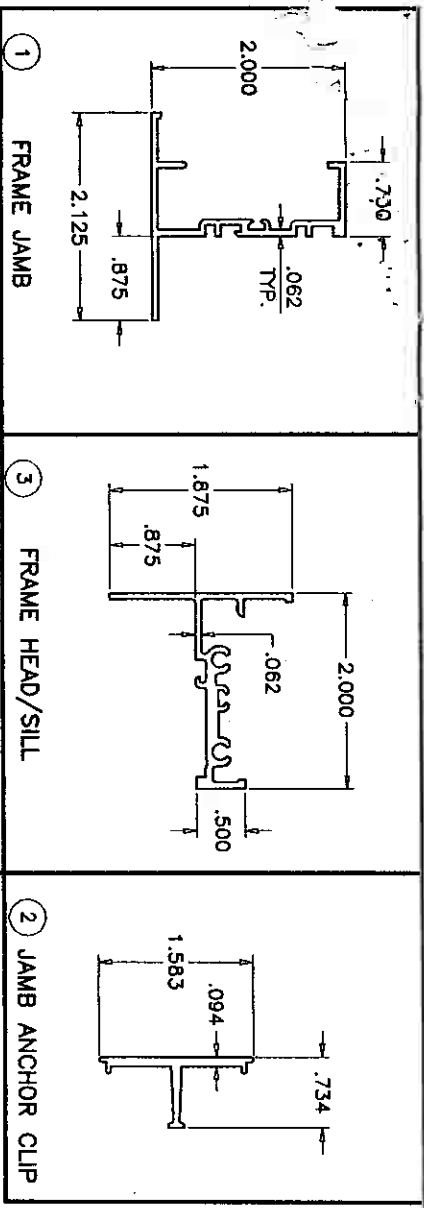
SEALANTS:
ALL FRAME AND VENT CORNERS SEALED WITH
JOINT SEALANT.

Approved as complying with the
Florida Building Code
Date 08/19/04
NOA# 08-060804
Mason/Builder/Product Controls
Division
By *[Signature]*

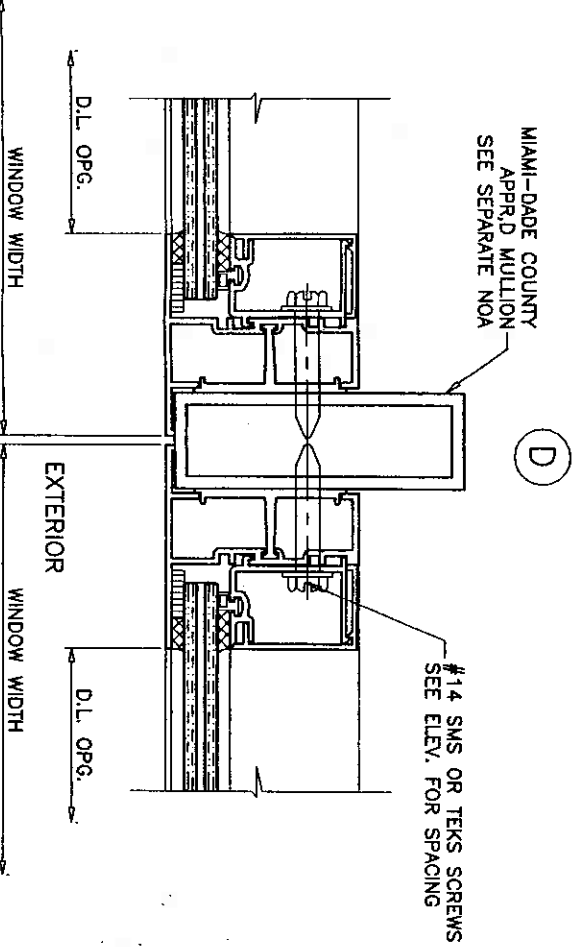
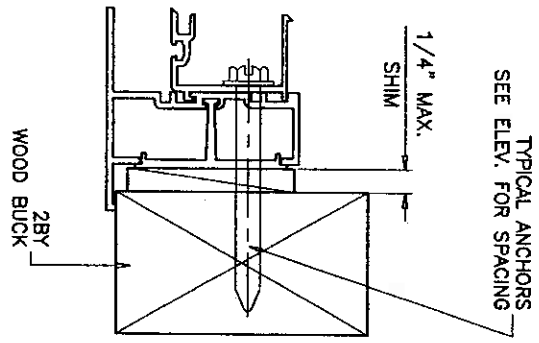
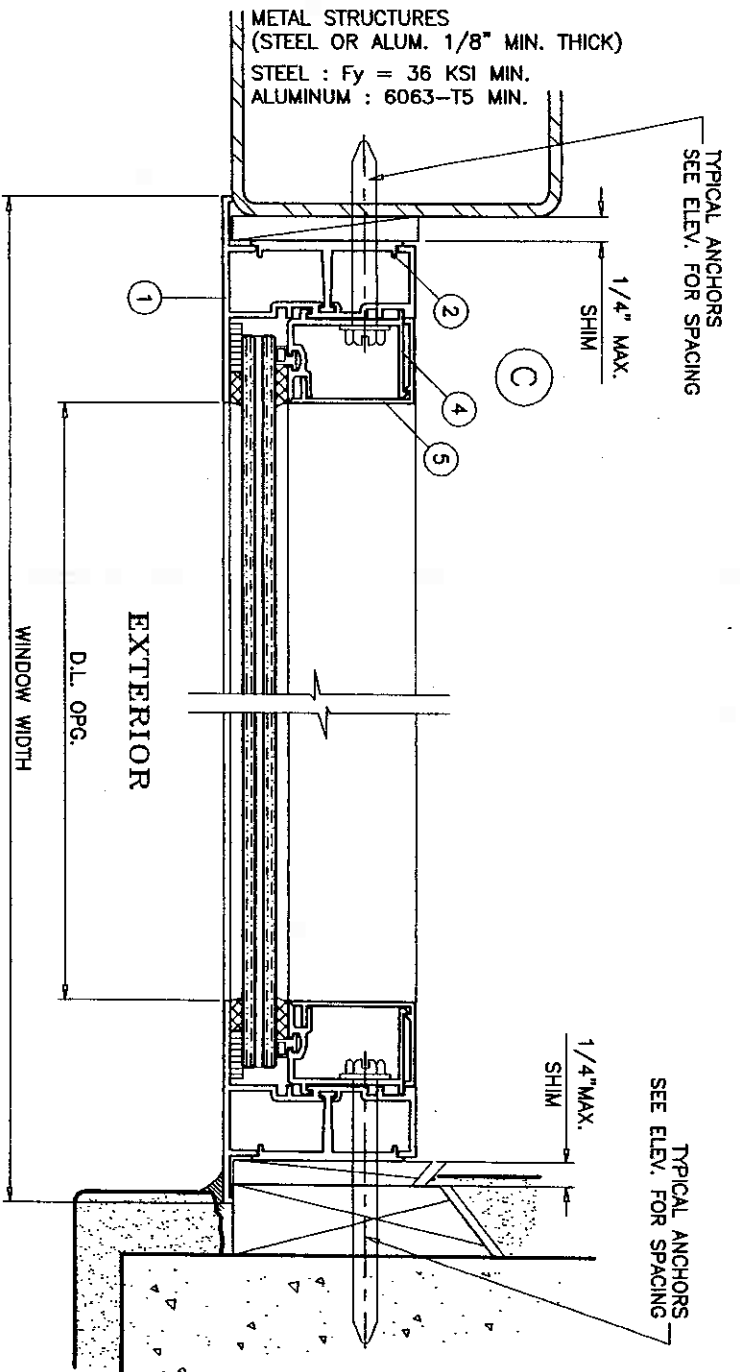
Engr. DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
CA.N. 3538

JUL 15 2004

date: 05-29-04 scale: 1/2" = 1" dr. by: HAMID chk. by:	revisions: <table border="1"> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> <tr> <td>A</td> <td>07.09.04</td> <td></td> <td>REV. PER BCCO COMMENTS</td> </tr> </table>	no	date	by	description	A	07.09.04		REV. PER BCCO COMMENTS	FX100 ALUMINUM FIXED WINDOW (L.M.I.) R.C. ALUMINUM INDUSTRIES INC. 2805 N.W. 75 TH AVE. MIAMI, FL. 33122 TEL. (305) 592-1515 FAX. (305) 592-2184	AL-FAROOQ CORPORATION ENGINEERS, PLANNERS & PRODUCT DESIGN 1235 SW 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978	
	no	date	by	description								
A	07.09.04		REV. PER BCCO COMMENTS									
drawing no. W04-44	COMP-ANL\W04-44RC											



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CM100-007	AS REQD.	FRAME JAMB	6063-T6	
2	CM100-012	AS REQD.	JAMB ANCHOR CLIP	6063-T6	FOR FIXED WINDOW
3	CM100-015	AS REQD.	FRAME HEAD/SILL	6063-T6	
4	CM100-016	4/ WDW	GLAZING BEAD (LAM. GLASS)	6063-T6	
4A	CM100-017	4/ WDW	GLAZING BEAD (LAM. INS. GLASS)	6063-T6	
5	CM100-018	4/ WDW	SNAP COVER (LAM. GLASS)	6063-T6	
5A	CM100-019	4/ WDW	SNAP COVER (LAM. INSUL. GLASS)	6063-T6	
6	-	-	-	-	-
7	V-059	AS REQD.	VINYL FOR LAM. & LAM. INSUL. GLASS	PVC	
8	-	AS REQD.	3/16" X 3/8" X 4" LG. SETTING BLOCK	-	
9	-	AS REQD.	1/8" X 1/2" SINGLE FACE TAPE	-	
10	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREW	ST. STEEL	PH PHL SMS



Engr. DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
CAN. 3536

JUL 15 2004

Approved as complying with the
Florida Building Code
Date 08/19/04
NOA# 04-0602.04
Miami Dade Product Control
Division
By *[Signature]*

date:	05-29-04
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

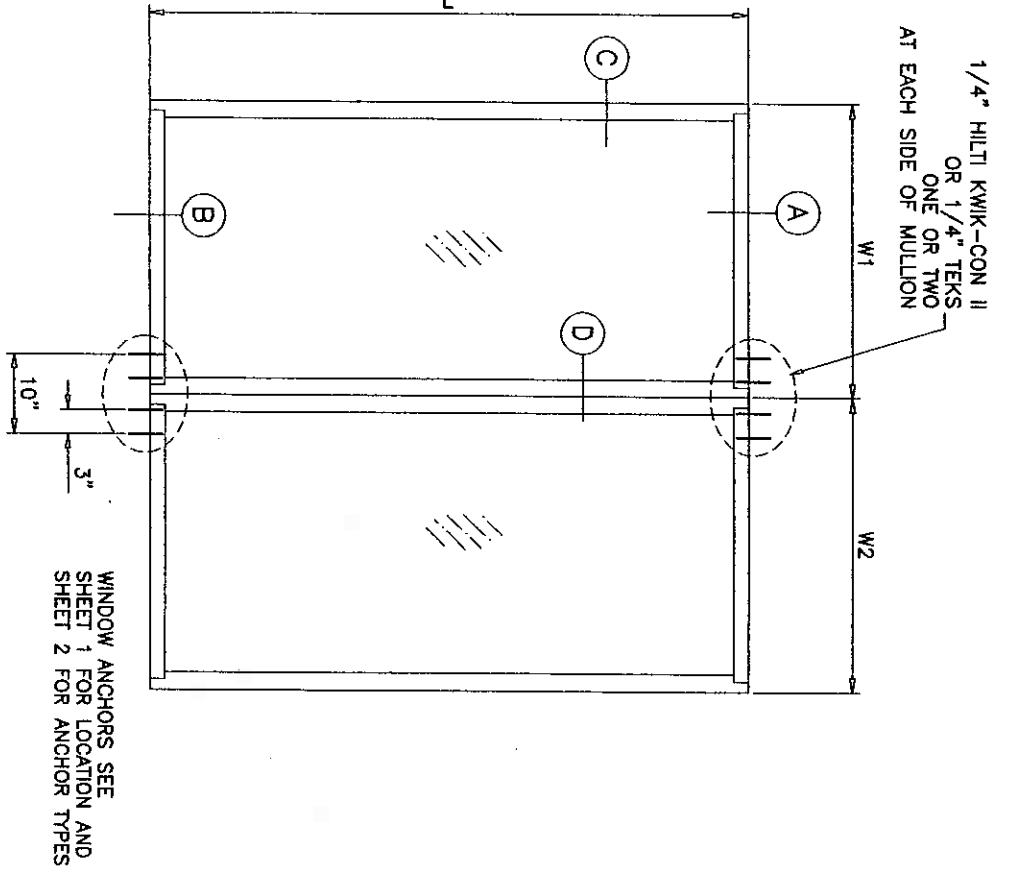
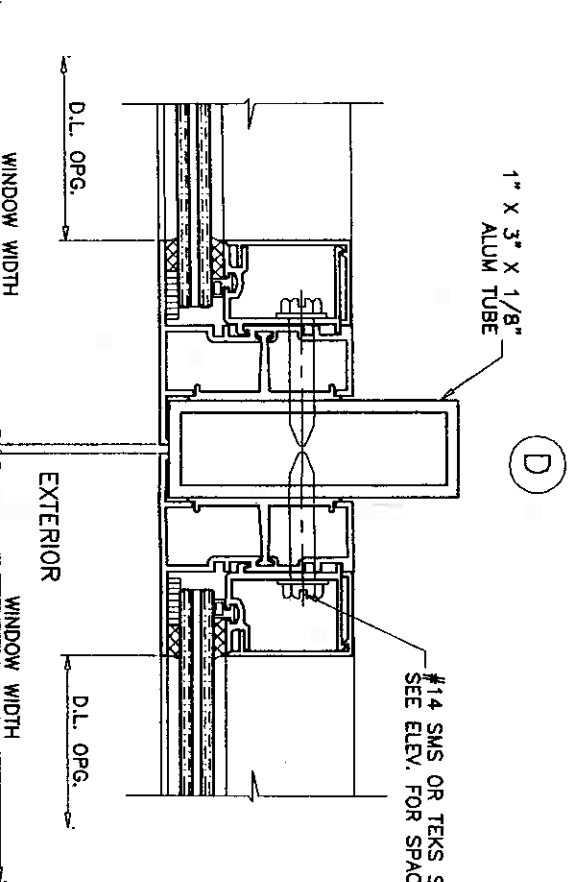
revisions:			
no	date	by	description
A	07.09.04		REV. PER BCCO COMMENTS

FX100 ALUMINUM FIXED WINDOW (L.M.I.)
R.C. ALUMINUM INDUSTRIES INC.
 2805 N.W. 75 TH AVE.
 MIAMI, FL. 33122
 TEL. (305) 592-1515 FAX. (305) 592-2184

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W04-44RC

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		ONE ANCHOR AT EACH SIDE OF MULLION		TWO ANCHORS AT EACH SIDE OF MULLION	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
26-1/2"		80.0	80.0	80.0	80.0
30"	38-3/8"	80.0	80.0	80.0	80.0
37"		80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"	48"	80.0	80.0	80.0	80.0
53-1/8"		80.0	80.0	80.0	80.0
19-1/8"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
26-1/2"		80.0	80.0	80.0	80.0
30"	50-5/8"	80.0	80.0	80.0	80.0
37"		80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
53-1/8"		80.0	80.0	80.0	80.0
19-1/8"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
26-1/2"		80.0	80.0	80.0	80.0
30"	60"	80.0	80.0	80.0	80.0
37"		80.0	80.0	80.0	80.0
42"		75.3	75.3	80.0	80.0
19-1/8"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
26-1/2"		80.0	80.0	80.0	80.0
30"	63"	80.0	80.0	80.0	80.0
37"		74.9	74.9	80.0	80.0
42"		69.9	69.9	80.0	80.0
19-1/8"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
26-1/2"	66"	80.0	80.0	80.0	80.0
30"		80.0	80.0	80.0	80.0
37"		70.1	70.1	80.0	80.0
19-1/8"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
26-1/2"	72"	79.2	79.2	80.0	80.0
30"		72.1	72.1	80.0	80.0
37"		62.3	62.3	70.9	70.9
19-1/8"		80.0	80.0	80.0	80.0
24"		80.0	80.0	80.0	80.0
26-1/2"	74-1/4"	76.3	76.3	80.0	80.0
30"		69.3	69.3	76.4	76.4
37"		59.8	59.8	64.2	64.2



TYPICAL ELEVATIONS
SIDE BY SIDE WINDOWS
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS
WIDTH (W) = $\frac{W1 + W2}{2}$

- NOTES:
1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF FIXED WINDOW MULLION.
 2. FOR FIXED WINDOW CAPACITY SEE SHEET 1 OF 4.
 3. USE SMALLER DESIGN LOAD CAPACITY OF 1 OR 2 ABOVE.

Eng'r. DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
CALN. 3538

JUL 15 2004

Approved as complying with the Florida Building Code
Date 08/19/04
NOAR 04-0608-05
Miami-Dade Product Control Division
By *[Signature]*

date: 05-29-04
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

no	date	by	description
A	07.09.04		NO CHANGE THIS SHEET

FX100 ALUMINUM FIXED WINDOW (L.M.I.)
R.C. ALUMINUM INDUSTRIES INC.
2805 N.W. 75 TH AVE.
MIAMI, FL. 33122
TEL (305) 592-1515 FAX. (305) 592-2184

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W04-44RC