



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

NOTICE OF ACCEPTANCE (NOA)

www.buildingcodeonline.com

Rolladen, Inc.
550 Ansin Boulevard
Hallandale, FL 33009

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 Aluminum Fixed Window with Polycarbonate Glazing - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W96-31**, titled "Alum Fixed WDW w/ Polycarbonate Glazing", sheets 1 and 4 of 4, prepared by Al Farooq Corporation dated 07/15/96 and last revised on Feb 13, 2008 w/ Rev "E", signed and sealed by Dr. Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration 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 **renews NOA # 06-0420.03** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No 08-0219.06
Expiration Date: August 14, 2012
Approval Date: April 10, 2008
Page 1

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3/17/16

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No.W96-31, titled "Alum Fixed WDW w/ Polycarbonate Glazing", sheets 1 and 4 of 4, prepared by Al Farooq Corporation dated 07/15/96 and last revised on Feb 13, 2008 w/ Rev "E", signed and sealed by Dr. Humayoun Farooq, P.E.

B. TESTS

1. Test reports on1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of alum. fixed window, prepared by Hurricane Engineering Testing Lab, Inc. Test Report No. **HETI-07-4296 & -07-4375**, dated October 31, 2007, signed and sealed by Candido F. Font, P.E.

2. Test reports on on1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of alum. fixed window, prepared by Hurricane Test Lab, Inc. Test Report No. HTL **0028-0307-96, 0028-0308-96 and 0028-0309-96**, dated March 27, 1997, March 28, 1997 and April 24, 1997 respectively, all signed and sealed by Timothy S. Marshall, P.E. (transferred from file # 06-0420.03)

C. CALCULATIONS

1. Anchor calculations, comparative analysis and structural analysis, prepared by AL-Farooq Corporation, dated 04/30/2007, signed and sealed by Humayoun Farooq, P.E. (transferred from file # **06-0420.03**)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **03-1210.04** issued to General Electric Co. for "Lexan, polycarbonate sheets", expiring on 07/17/08.

F. STATEMENTS

1. Statement letter of code compliance, prepared by AL-Farooq Corporation, dated 02/12/2008, signed and sealed by Humayoun Farooq, P.E.
2. Statements of lab compliance, as part of above referenced test reports.

G. OTHER

1. This NOA **renews** NOA # **06-0420.03** expiring Aug. 14, 2008.
2. Previous associated NOA(s) # 03-0527.02 and # 00-0609.05

Ishaq I. Chanda
Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 08-0219.06
Expiration Date: August 14, 2012
Approval Date: April 10, 2008

DESIGN LOAD CAPACITY - PSF		
WINDOW DIMS.		3/8" LEXAN
WIDTH	HEIGHT	EXT.(+)/INT. (-)
36"	48"	100.0
42"		100.0
48"		100.0
54"		100.0
36"	60"	100.0
42"		100.0
48"		100.0
54"		94.4
36"	66"	100.0
42"		100.0
48"		100.0
54"		94.4
36"	72"	100.0
42"		100.0
48"		100.0
54"		94.4
36"	78"	100.0
42"		100.0
48"		100.0
54"		94.4
36"	84"	100.0
42"		100.0
48"		100.0
54"		94.4
36"	90"	100.0
42"		100.0
48"		100.0
54"		94.4
36"	96"	100.0
42"		100.0
48"		100.0
54"		94.4
36"	102"	100.0
42"		100.0
48"		100.0
54"		94.4
26"	26-1/2"	100.0
37"		100.0
53-1/8"		100.0
26"	38-3/8"	100.0
37"		100.0
53-1/8"		100.0
26"	50-5/8"	100.0
37"		100.0
53-1/8"		100.0
26"	63"	100.0
37"		96.0
53-1/8"		96.0
26"	74-1/4"	100.0
37"		96.0
53-1/8"		96.0

WINDOWS GLAZED WITH POLYCARBONATE SHEET RATED FOR LARGE MISSILE IMPACT AND REQUIRE NO SHUTTERS.

ALUMINUM FIXED WINDOW WITH POLYCARBONATE GLAZING

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

APPROVAL APPLIES TO SINGLE FIXED WINDOWS, ALSO COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER WINDOW TYPES USING APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

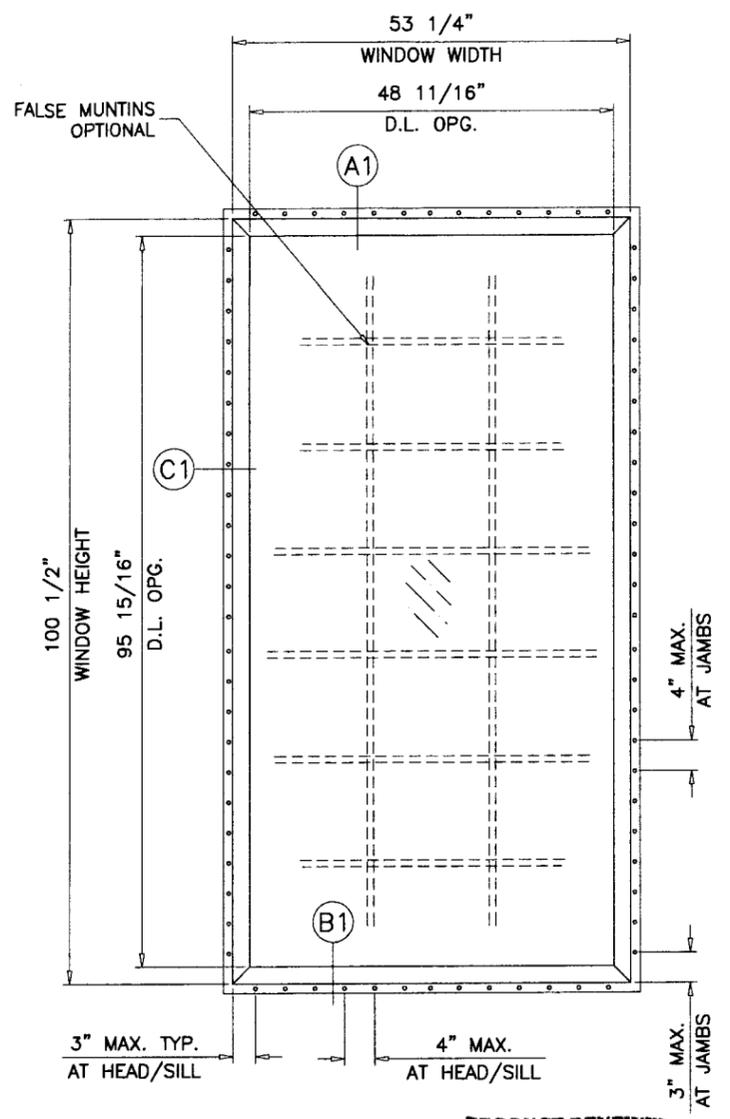
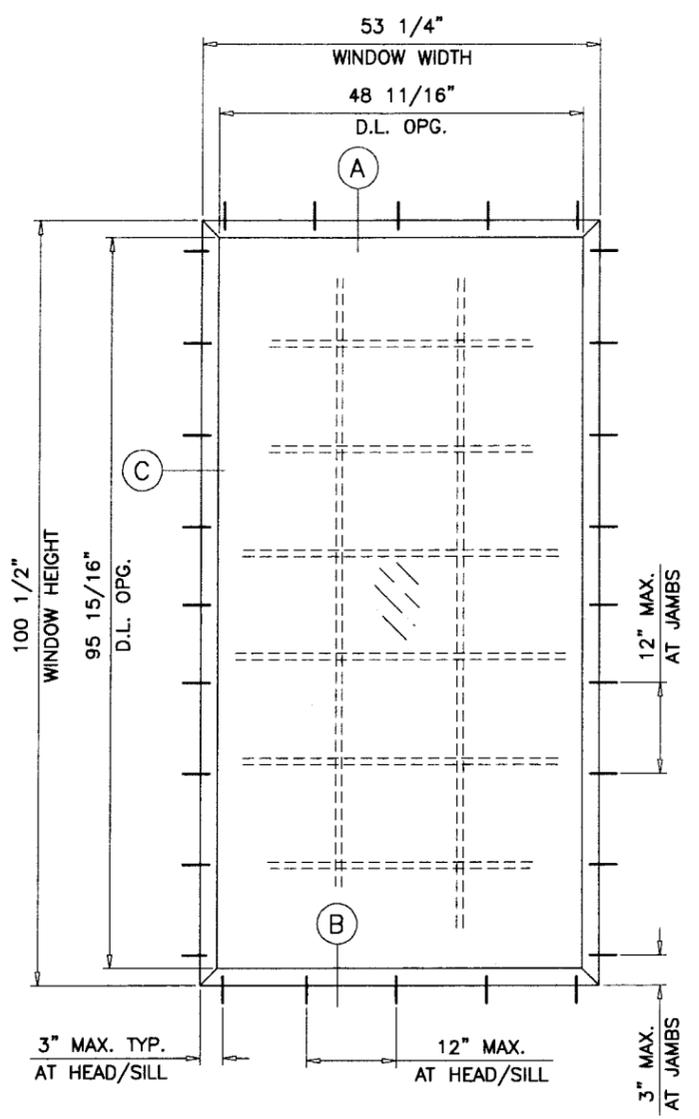
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

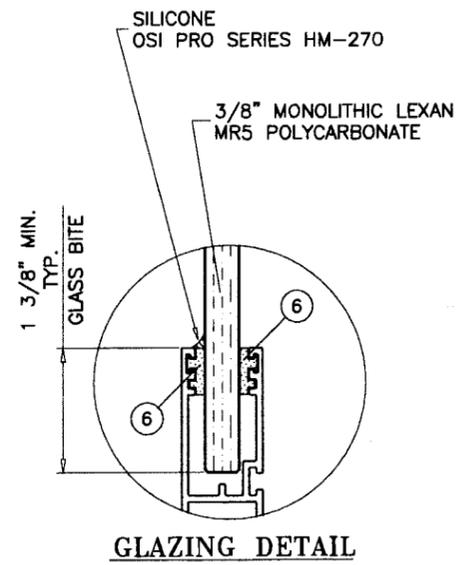
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.



TYPICAL ELEVATIONS

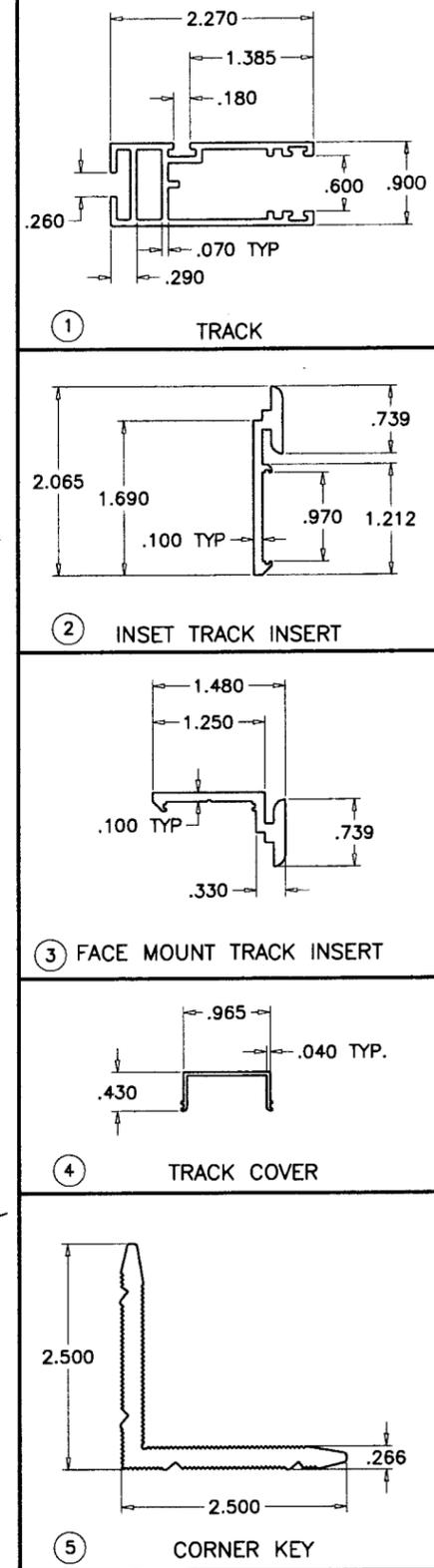


GLAZING DETAIL

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 08-0219.06
 Expiration Date AUG 14, 2012
 Ishaq I. Chanda
 Miami Dade Product Division

Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

FEB 13 2008



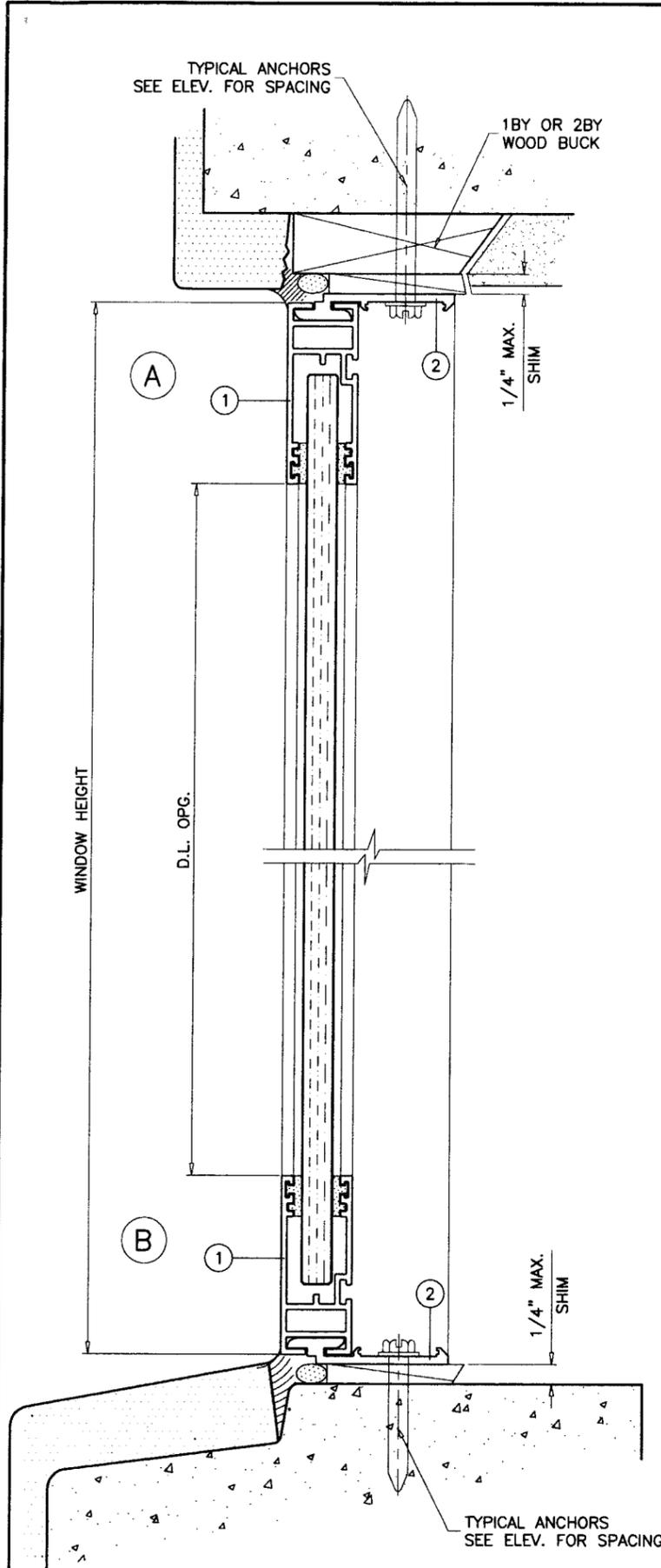
AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W96-31RI-NEW

ROLLADEN INC.
 550 ANSIN BLVD.
 HALLANDALE, FL. 33009
 TEL. (954) 757-8591 FAX. (954) 454-1577

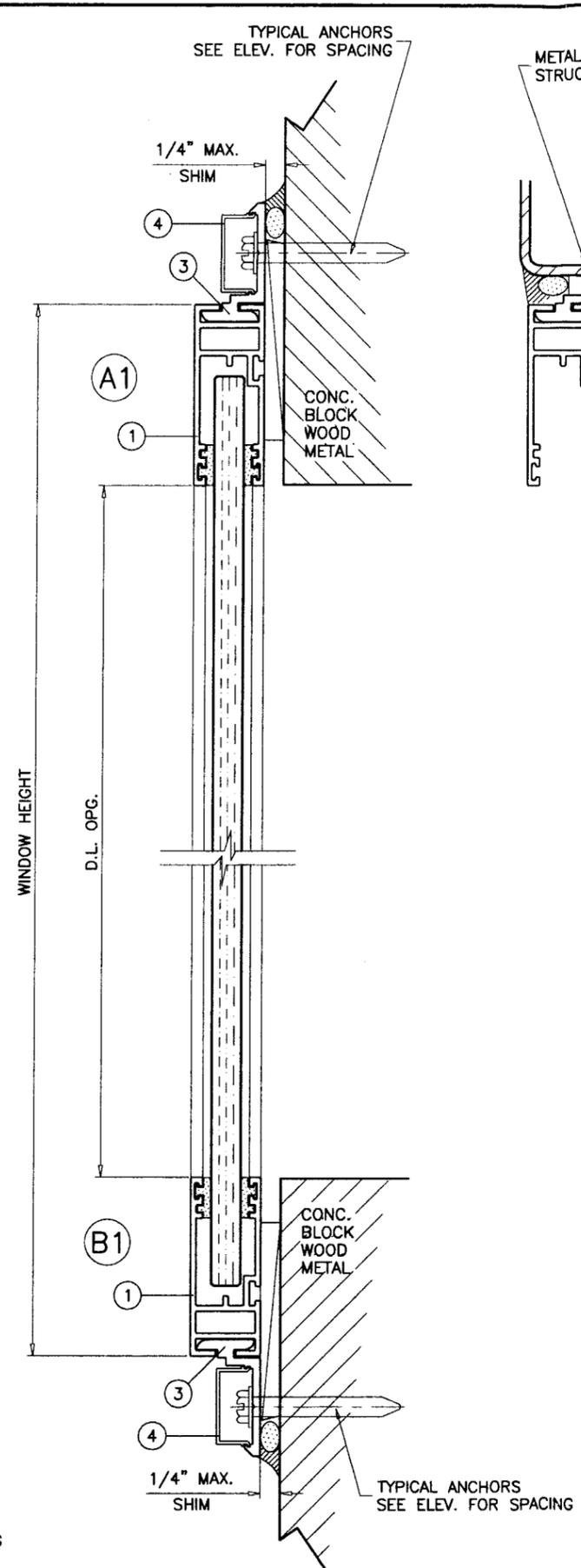
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A	9.11.96	TRACK COVER ADD.
B	7.14.97	GENERAL REVISION
C	04.07.03	UPDATED FOR FBC
D	02.07.06	UPDATED FOR 2004 FBC
E	02.24.07	REV. PER BCCO COMMENTS

date: 07-15-96
 scale: 1/2"=1'-0"
 dr. by: HAMID
 chk. by:

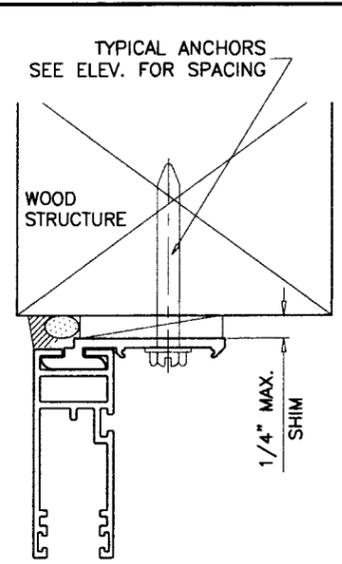
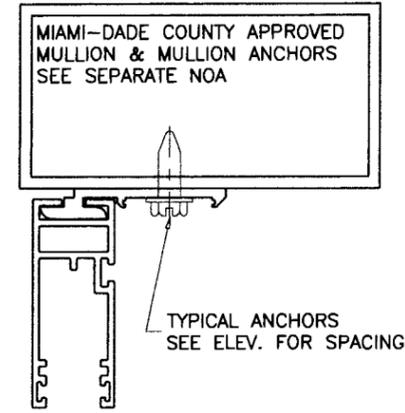
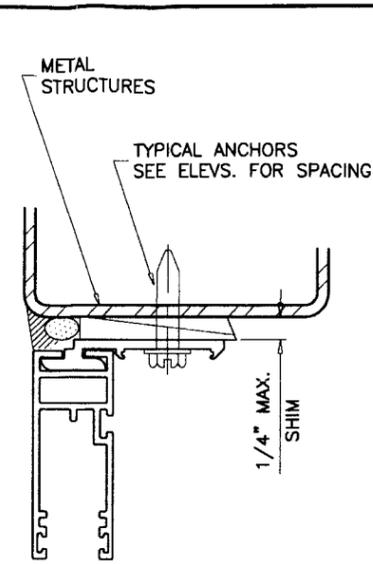
drawing no. **W96-31**
 sheet 1 of 4



**WINDOWS WITH
INSET TRACK INSERT**



**WINDOWS WITH
FACE MOUNT TRACK INSERT**



WOOD BUCKS/METAL STRUCTURE NOT BY ROLLADEN INC., MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#14 SMS/LAG SCREWS
 INTO WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD

1/4" TAPCONS
 INTO WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY OR 2BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS
 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)

#12 SMS OR SELF DRILLING SCREWS
 INTO DADE COUNTY APPROVED MULLIONS
 (NO SHIM SPACE)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 1-1/2" MIN. (INSET TRACK INSERT)
 INTO CONCRETE AND MASONRY = 3" MIN. (FACE MOUNT TRACK INSERT)
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

FEB 13 2008

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 08-0219.06
 Expiration Date July 14, 2012
 By Ismael I. Chande
 Building Code Product Control
 Division

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W96-31RI-NEW

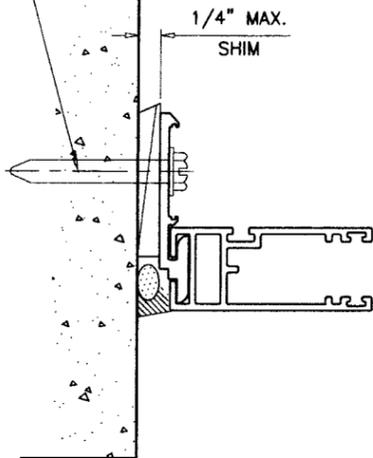
ALUM FIXED WDW. W/ POLYCARBONATE GLAZING (L.M.I.)
ROLLADEN INC.
 550 ANSIN BLVD.
 HALLANDALE, FL. 33009
 TEL. (954) 757-8591 FAX. (954) 454-1577

no	date	by description

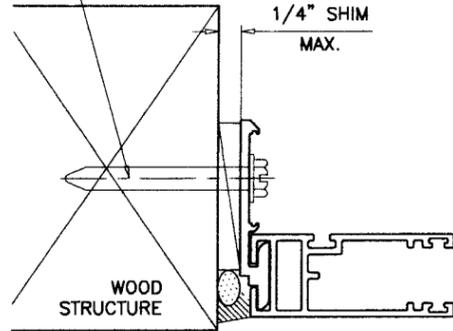
date: 07-15-96
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W96-31
 sheet 2 of 4

TYPICAL ANCHORS
SEE ELEV. FOR SPACING

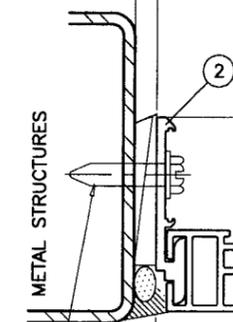


TYPICAL ANCHORS
SEE ELEV. FOR SPACING



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	RON-108	4	WINDOW TRACK	6105-T5	-
2	RON-104	4	INSET TRACK INSERT	6105-T5	-
3	RON-107	4	FACE MOUNT TRACK INSERT	6105-T5	-
4	-	-	TRACK COVER	6063-T5	-
5	RON-102	1/CORNER	CORNER KEY	-	-
6	591-65W175	-	GLAZING GASKET	-	SANTOPRENE THERMOPLASTIC RUBBER

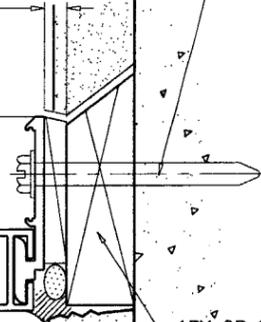
1/4" MAX.
SHIM



(C)

TYPICAL ANCHORS
SEE ELEV. FOR SPACING

1/4" MAX.
SHIM



1BY OR 2BY
WOOD BUCKS

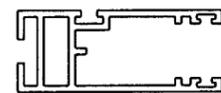
D.L. OPG.

WINDOW WIDTH

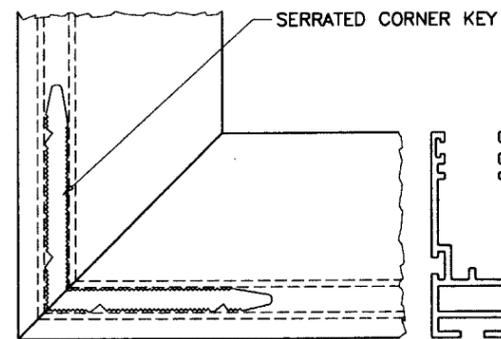
TYPICAL ANCHORS
SEE ELEV. FOR SPACING

**WINDOWS WITH
INSET TRACK INSERT**

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 08-0219.01
Expiration Date AUG 16, 2012
By Shag I. Chande
Miami Code Product Control
Division



SERRATED CORNER KEY

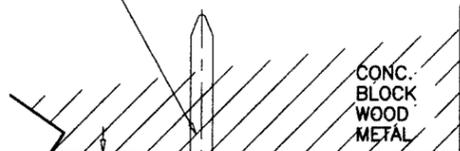


CORNER DETAIL

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

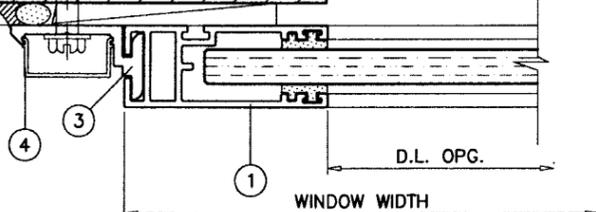
FEB 13 2008

TYPICAL ANCHORS
SEE ELEV. FOR SPACING



(C1)

1/4" MAX.
SHIM



D.L. OPG.

WINDOW WIDTH

**WINDOWS WITH
FACE MOUNT TRACK INSERT**

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W96-31RI-NEW

ALUM FIXED WDW. W/ POLYCARBONATE GLAZING (L.M.I.)

ROLLADEN INC.

550 ANSIN BLVD.
HALLANDALE, FL. 33009
TEL. (954) 757-8591 FAX. (954) 454-1577

REVISIONS:	no	date	by	description

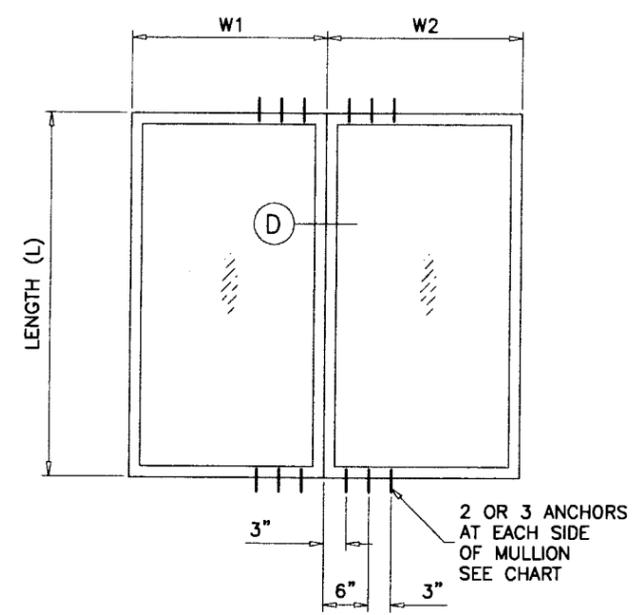
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W96-31

sheet 3 of 4

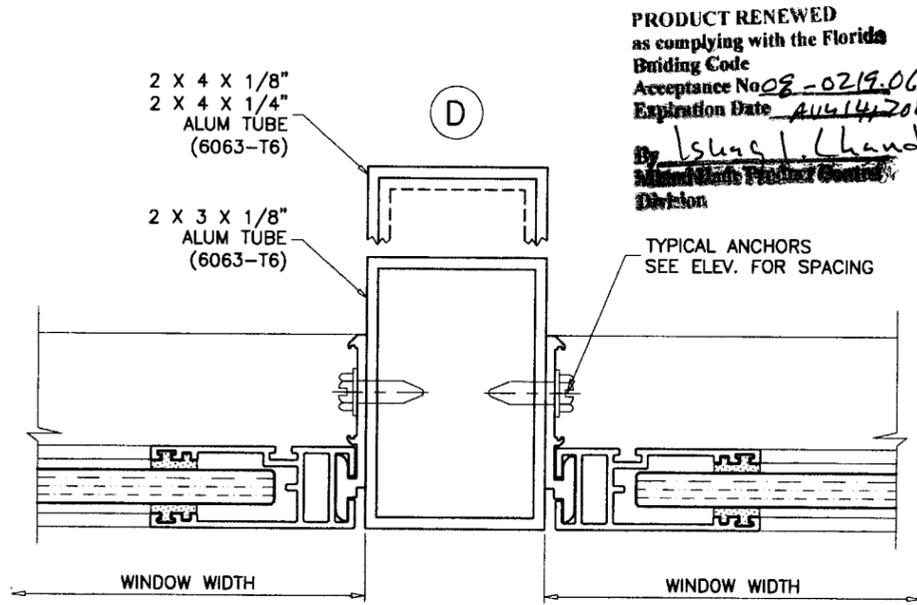
MULLION LOAD CAPACITY - PSF				
WINDOW DIMS.		2 X 3 X 1/8" ALUM TUBE	2 X 4 X 1/8" ALUM TUBE	2 X 4 X 1/4" ALUM TUBE
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
36"	48"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
36"	60"	100.0	100.0	100.0
42"		100.0	100.0	100.0
48"		100.0	100.0	100.0
54"		100.0	100.0	100.0
36"	66"	98.3	100.0	100.0
42"		88.4	100.0	100.0
48"		81.8	100.0	100.0
54"		77.5	100.0	100.0
36"	72"	74.2	100.0	100.0
42"		66.2	100.0	100.0
48"		60.6	100.0	100.0
54"		56.9	100.0	100.0
36"	78"	57.4	100.0	100.0
42"		50.9	100.0	100.0
48"		46.3	93.9	100.0
54"		43.1	87.4	100.0
36"	84"	45.4	92.2	100.0
42"		40.1	81.3	100.0
48"		36.2	73.5	100.0
54"		33.5	67.9	100.0
36"	90"	36.6	74.2	100.0
42"		32.1	65.2	100.0
48"		28.9	58.7	100.0
54"		26.6	53.9	96.1
36"	96"	29.9	60.6	100.0
42"		26.2	53.1	94.7
48"		23.5	47.6	84.9
54"		21.5	43.6	77.7
36"	102"	24.8	50.2	89.5
42"		21.6	43.9	78.2
48"		19.3	39.2	70.0
26"	26-1/2"	100.0	100.0	100.0
37"		100.0	100.0	100.0
53-1/8"		100.0	100.0	100.0
26"	38-3/8"	100.0	100.0	100.0
37"		100.0	100.0	100.0
53-1/8"		100.0	100.0	100.0
26"	50-5/8"	100.0	100.0	100.0
37"		100.0	100.0	100.0
53-1/8"		100.0	100.0	100.0
26"	63"	100.0	100.0	100.0
37"		100.0	100.0	100.0
53-1/8"		92.4	100.0	100.0
26"	74-1/4"	88.8	100.0	100.0
37"		65.8	100.0	100.0
53-1/8"		51.5	100.0	100.0

MULLION ANCHORS LOAD CAPACITY - PSF			
WINDOW DIMS.		2 ANCHORS AT EACH SIDE OF MULLION	3 ANCHORS AT EACH SIDE OF MULLION
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
36"	48"	100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
36"	60"	100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
36"	66"	100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
36"	72"	100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
54"		92.5	100.0
36"	78"	100.0	100.0
42"		99.8	100.0
48"		96.0	100.0
54"		85.4	100.0
36"	84"	100.0	100.0
42"		92.7	100.0
48"		89.2	100.0
54"		79.3	100.0
36"	90"	100.0	100.0
42"		86.5	100.0
48"		83.2	100.0
54"		74.0	100.0
36"	96"	94.6	100.0
42"		81.1	100.0
48"		78.0	100.0
54"		69.4	94.6
36"	102"	89.0	100.0
42"		76.3	100.0
48"		73.4	100.0
26"	26-1/2"	100.0	100.0
37"		100.0	100.0
53-1/8"		100.0	100.0
26"	38-3/8"	100.0	100.0
37"		100.0	100.0
53-1/8"		100.0	100.0
26"	50-5/8"	100.0	100.0
37"		100.0	100.0
53-1/8"		100.0	100.0
26"	63"	100.0	100.0
37"		100.0	100.0
53-1/8"		100.0	100.0
26"	74-1/4"	100.0	100.0
37"		100.0	100.0
53-1/8"		91.2	100.0



TYPICAL ELEVATIONS
SIDE BY SIDE WINDOWS
SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

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



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 08-0219.06
Expiration Date AUG 14, 2012
By Ismael L. Chaud
Miami-Dade District Council
Division

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 1 FOR DESIGN LOAD CAPACITY OF DESIRED WINDOW SIZE.
- STEP 3** USE MULLION CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USE ANCHOR CHART ON THIS SHEET TO SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

**WINDOWS WITH
INSET TRACK INSERT**

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3536

FEB 18 2008

AL-FAROOQ CORPORATION
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1235 SW 87 AVE
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ROLLADEN INC.
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550 ANSIN BLVD.
HALLANDALE, FL. 33009
TEL. (954) 757-8591 FAX. (954) 454-1577

no	date	description

date: 07-15-96
scale: 1/2" = 1"
dr. by: HAMID
chk. by:
E 02.24.07
REV. PER BCCO COMMENTS

drawing no.
W96-31
sheet 4 of 4