



**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)

**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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Fixed Window with Polycarbonate Glazing

APPROVAL DOCUMENT: Drawing No. **W96-31**, titled "Polycarbonate Window Glazing", sheets 1 and 2 of 2, dated 7/15/96 with revision C dated 4/7/03, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, 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 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 **revises and renews NOA # 00-0609.05** and consists of this page 1 as well as approval document mentioned above.

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



MP

**NOA No 03-0527.02
Expiration Date: August 14, 2008
Approval Date: July 10, 2003**

Rolladen, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W96-31**, titled "Polycarbonate Window Glazing", sheets 1 through 2 of 2, dated 7/15/96 with revision C dated 4/7/03, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

Submitted under NOA# 00-0609.05

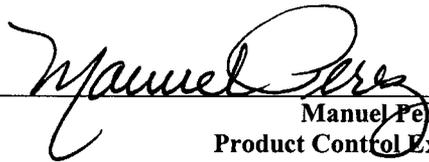
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of alum. fixed window, prepared by Hurricane Test Lab, Inc. Test Report No. **0028-0307-96**, dated March 18 and 28, 1996, signed and sealed by Timothy S. Marshall, P.E.
2. 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 installation diagram of alum. fixed window, prepared by Hurricane Test Lab, Inc. Test Report No. **0028-0308-96**, dated March 27, 1997, signed and sealed by Timothy S. Marshall, 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 installation diagram of alum. fixed window, prepared by Hurricane Test Lab, Inc. Test Report No. **0028-0409-96**, dated April 24, 1996, signed and sealed by Timothy S. Marshall, P.E.

B. CALCULATIONS

1. Comparative analysis and anchor calculations for an aluminum fixed window prepared by Al-Farooq Corporation dated 4/25/03, signed and sealed by Humayoun Farooq, P.E.

Submitted under NOA# 00-0609.05

2. Comparative analysis and anchor calculations for an aluminum fixed window prepared by Al-Farooq Corporation dated 8/29/96, and revised 06/25/97 signed and sealed by Humayoun Farooq, P.E.



Manuel Perez, P.E.
Product Control Examiner
NOA No 03-0527.02
Expiration Date: August 14, 2008
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C. MATERIAL CERTIFICATIONS

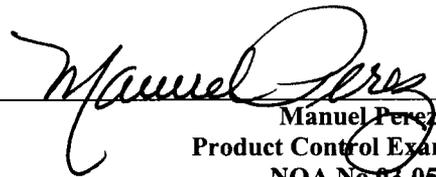
1. None

D. STATEMENTS

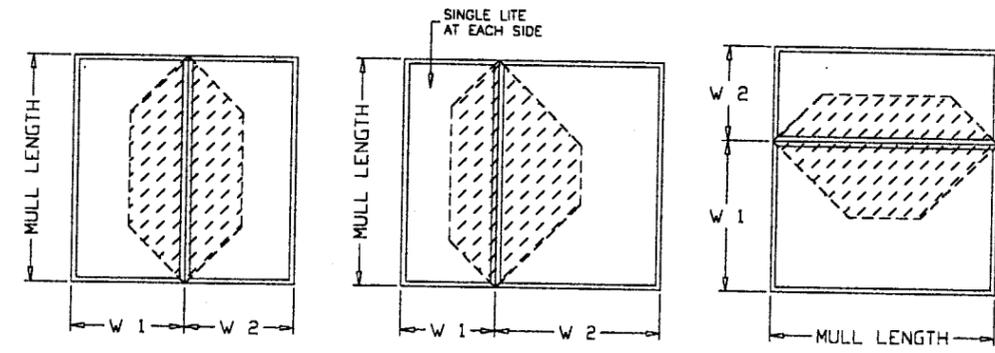
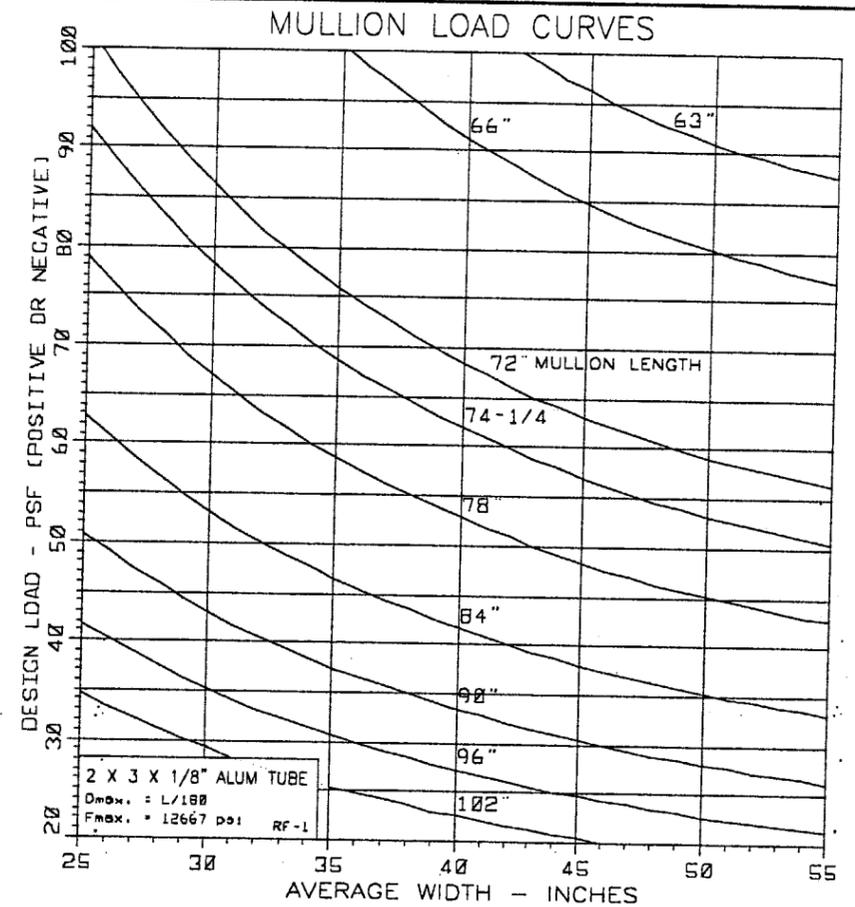
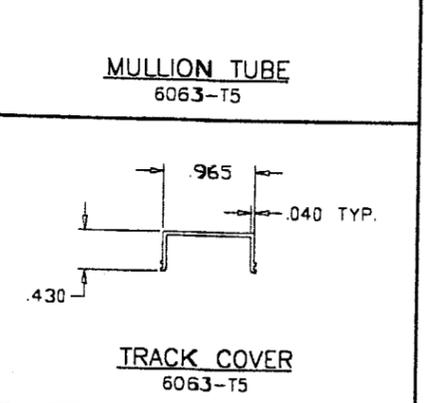
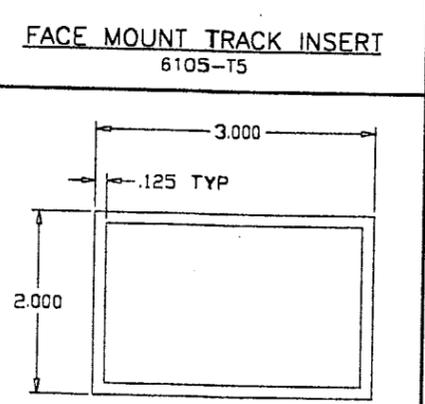
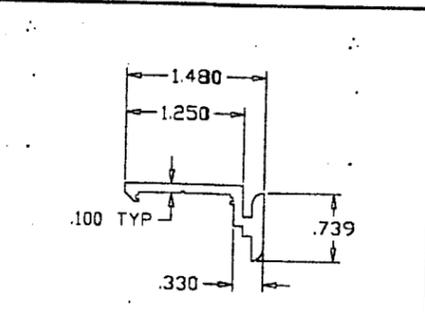
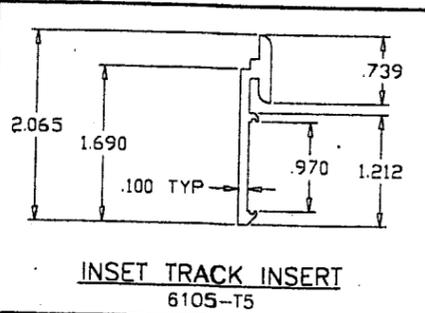
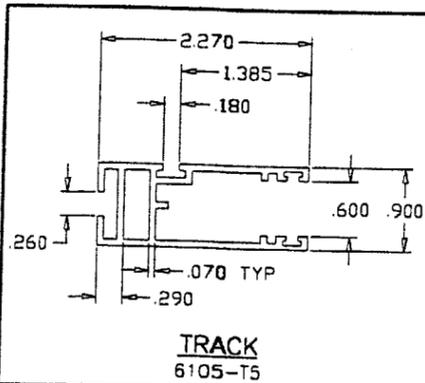
1. None

F. OTHER

1. Notice of Acceptance No. **00-0609.05**, issued to Rolladen, Inc., for their "Aluminum Fixed Window with Polycarbonate Glazing", approved on 9/7/00 and expiring on 8/14/03.



Manuel Perez, P.E.
Product Control Examiner
NOA No 03-0527.02
Expiration Date: August 14, 2008
Approval Date: July 10, 2003



$$\text{AVERAGE WIDTH} = \frac{W_1 + W_2}{2}$$

SINGLE LITES WITH 3/8"-POLYCARBONATE			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHOR TYPE 'A'	
WIDTH	HEIGHT	EXT.	INT.
26"	26-1/2"	100.0	207.7
37"		100.0	203.8
53-1/8"		100.0	199.4
26"	38-3/8"	100.0	207.7
37"		100.0	145.9
53-1/8"		100.0	140.7
26"	50-5/8"	100.0	205.3
37"		100.0	145.9
53-1/8"		100.0	106.7
26"	63"	100.0	192.3
37"		100.0	145.9
53-1/8"		100.0	101.6
26"	74-1/4"	100.0	185.0
37"		100.0	142.8
53-1/8"		100.0	101.6

COMPARATIVE ANALYSIS CHART
 BASED ON HTLI-28-0307-96 DATED 03-28-96
 TEST SIZE = 54" X 101-3/4" (SINGLE LITE)
 TEST LOADS = +150.0, -150.0 PSF
 DESIGN LOADS = +100.0, -100.0 PSF
 WATER INFILTRATION TEST = 15 PSF
 GLAZING MATERIAL = 3/8" THICK MONOLITHIC LEXAN
 MR5 POLYCARBONATE

SINGLE LITES WITH 3/8"-POLYCARBONATE			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		ANCHOR TYPE 'A'	
WIDTH	HEIGHT	EXT.	INT.
36"	48"	100.0	150.0
42"		100.0	128.6
48"		100.0	112.5
54"	60"	100.0	112.5
36"		100.0	150.0
42"		100.0	128.6
48"	66"	100.0	112.5
54"		100.0	100.0
36"		100.0	150.0
42"	72"	100.0	128.6
48"		100.0	112.5
54"		100.0	100.0
36"	78"	100.0	143.3
42"		100.0	128.6
48"		100.0	112.5
54"	84"	100.0	100.0
36"		100.0	140.3
42"		100.0	125.9
48"	90"	100.0	112.5
54"		100.0	100.0
36"		100.0	135.6
42"	96"	100.0	120.9
48"		100.0	110.2
54"		100.0	100.0
36"	102"	100.0	133.8
42"		100.0	118.9
48"		100.0	108.1
54"		100.0	99.9

ALUMINUM FIXED WINDOWS WITH POLYCARBONATE GLAZING

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.
 WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQD.

THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE. ALSO FOR WIND LOADS AS PER ASCE 7-88, ASCE 7-93, ASCE 7-95 OR ASCE 7-98 AS REQUIRED BY PREVAILING 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.

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 APR 25 2003

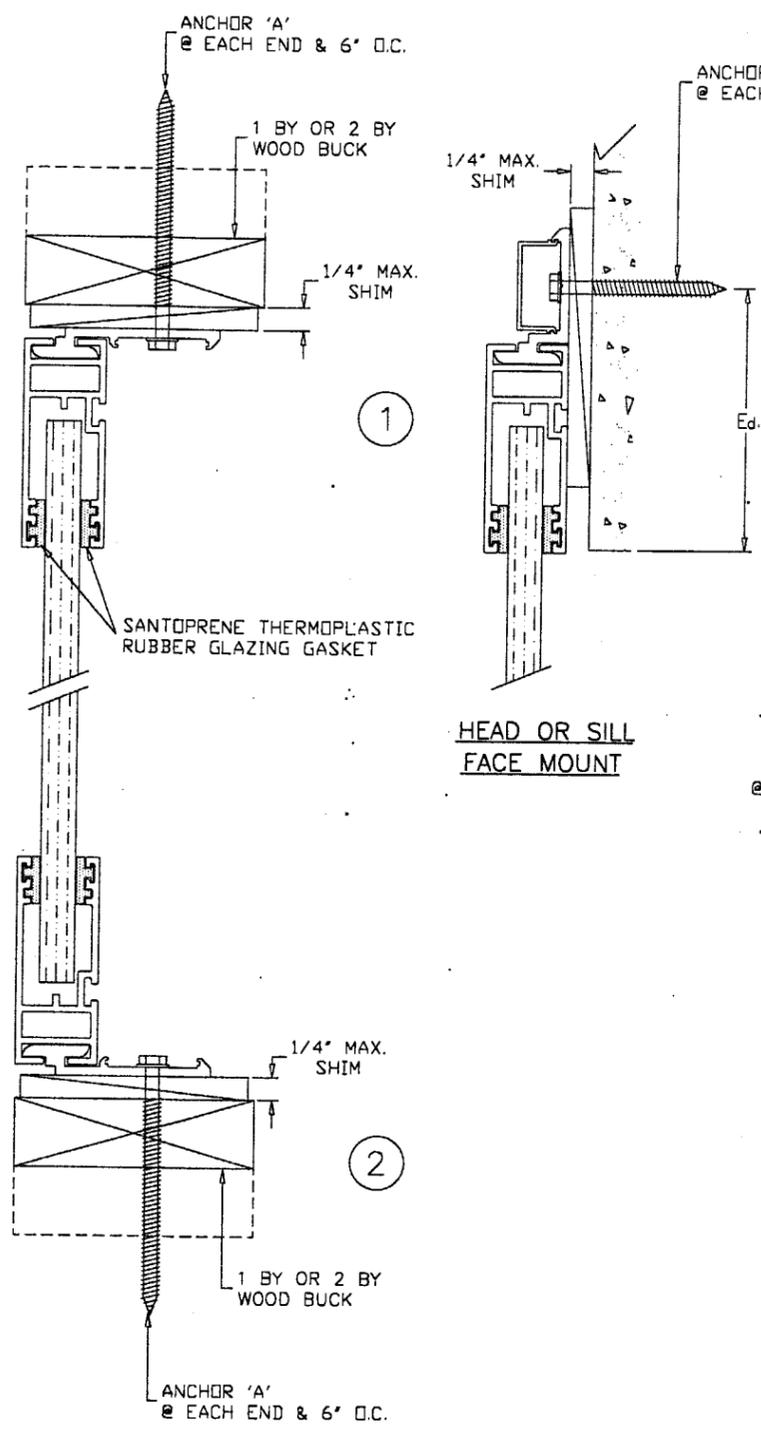
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 03-0527.02
 Expiration Date AUG. 14, 2008
 By: *Manuel Sere*
 Miami Dade Product Control
 Division

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

POLYCARBONATE WINDOW GLAZING
 ROLLADEN INC.
 550 ANSIN BOULEVARD
 HALLANDALE, FL. 33009
 (305) 757 - 8591

no	date	description
A	9.11.96	H TRACK COVER ADD.
B	7.14.97	H GENERAL REVISION
C	04.07.03	UPDATED FOR FBC

revisions:
 date: 07-15-96
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no. W96-31
 sheet 1 of 2



Ed = TYPICAL EDGE DISTANCE

ANCHOR SPACING IS BASED ON TYPICAL EDGE DISTANCE = 12d.
FOR LESSER EDGE DISTANCE DECREASE SPACING BY
MULTIPLYING WITH THE FACTOR BELOW

EDGE DIST.	12d=3"	10d=2-1/2"	8d=2"	6d=1-1/2"	5d=1-1/4"
FACTOR	1.00	0.86	0.71	0.57	0.50

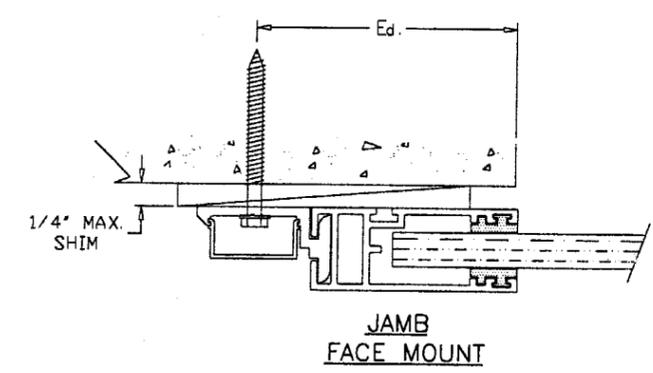
EXAMPLE: FOR 3" EDGE DIST. SPACING = 12" O.C. (FROM TABLE)
FOR 2" EDGE DIST. SPACING = 12 X .71 = 8.5 O.C.

TYPICAL EDGE DISTANCE IN WOOD = 1-1/4"
NO REDUCTION FACTOR IS REQUIRED

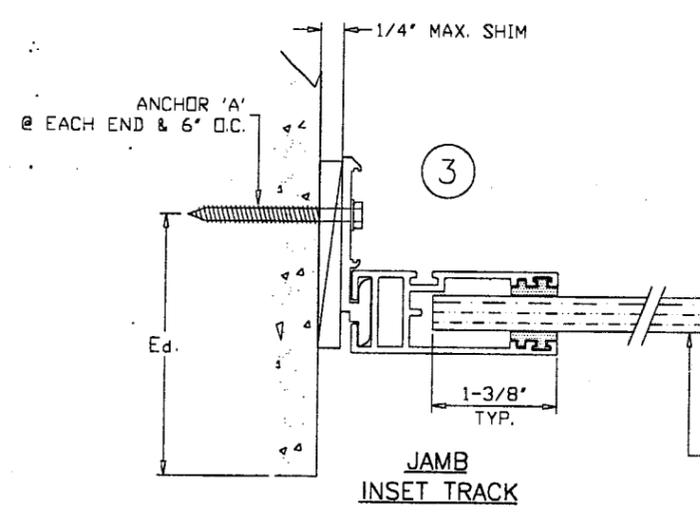
ANCHOR 'A'

1/4" ØTAPCON 1-3/4" EMBEDMENT TO CONCRETE
1-1/4" EMBEDMENT TO BLOCK
#14 S.M.S./LAG SCREWS INTO WOOD.
1-1/2" MIN. PENETRATION.

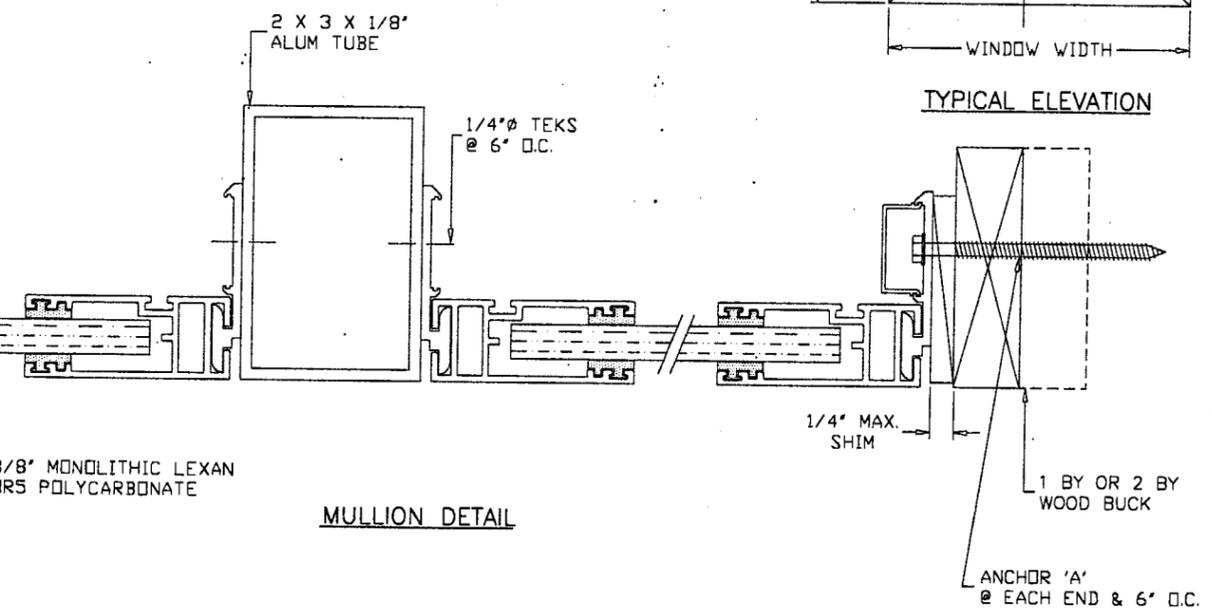
NOTE: ANCHORS, USE FULL EMBEDMENT IN CONCRETE BEYOND THE COVERING (STUCCO, TILES, ETC.)



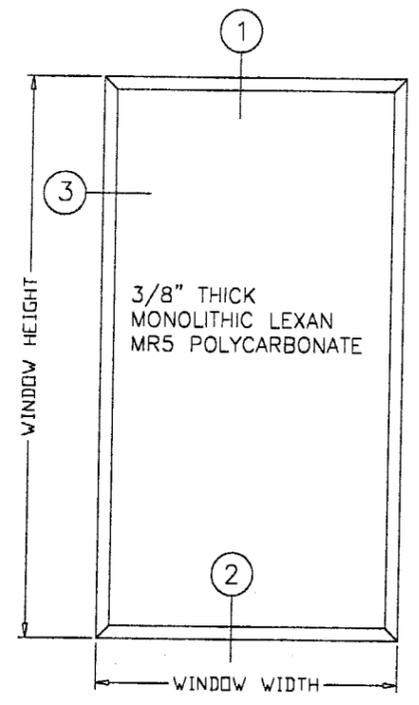
JAMB
FACE MOUNT



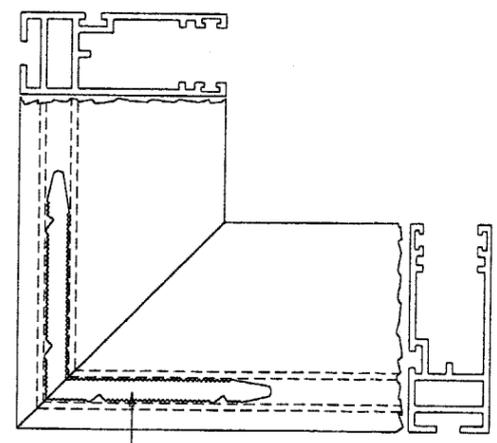
JAMB
INSET TRACK



MULLION DETAIL



TYPICAL ELEVATION



SERRATED CORNER KEY
CORNER DETAIL

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revisions:

no	date	by	description

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

drawing no.
W96-31
sheet 2 of 2

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3538

APR 25 2003

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **03-0527.02**
Expiration Date **Aug. 14, 2008**

By *Manuel*
Miami Dade Product Control
Division

COMP-ANL\W96-31