



**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)**

**Arch Aluminum & Glass Co., Inc.  
10200 NW 67 Street  
Tamarac, FL 33321**

**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: Series "3100" Aluminum Window Wall System-Impact**

**APPROVAL DOCUMENT:** Drawing No. **W02-85**, titled "Series-3100 Alum Window Wall System", sheets 1 through 5 of 5, dated 09/17/02 and last revised on 12-15-2004, prepared by Al-Farooq Corporation, signed and sealed by Dr. 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 Resistant**

**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, evidence sheets E-1 & E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



3/25/15

**NOA No 03-0327.04  
Expiration Date: March 24, 2010  
Approval Date: March 24, 2005  
Page 1**

Arch Aluminum & Glass Co., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS**
1. Manufacturer's die drawings and sections.
  2. Drawing No. **W02-85**, titled "Series 3100 Alum Window Wall System", sheets 1 through 5 of 5, dated 09/17/02 and last revised on 12-15-2004, prepared by Al-Farooq Corporation, signed and sealed by Dr. Humayoun Farooq, P.E.
- B. TESTS :**( Test conducted under SFB, PA 201, 202 & 203-94, now termed as FBC, TAS 201, 202 & 203-94)
1. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94  
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94  
3) Water Resistance Test, per SFBC, PA 202-94  
4) Large Missile Impact Test per SFBC, PA 201-94  
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94  
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3497(02702)** dated Aug. 13, 2002, witnessed by Luis Figueredo, P. E., reviewed & signed and sealed by Joseph Chen, P.E
  2. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94  
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94  
3) Water Resistance Test, per SFBC, PA 202-94  
4) Large Missile Impact Test per SFBC, PA 201-94  
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94  
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2109 (98-105)**, dated Oct. 13, 1998, witness by late Gilbert Diamond, P. E. reviewed, signed and sealed by Edmundo Largaespada, P.E.
- C. CALCULATIONS**
1. Anchor verification calculations and comparative analysis, prepared by Al-Farooq Corp., dated 12/13/02, revised on 02-20-2004, 10-24-2004 and 12-15-2004, signed and sealed by Dr. Humayoun Farooq, P.E.
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO)
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **01-0205.02** issued to Solutia Inc. for "Saflex /Keepsafe PVB", expiring on 05/21/06.

*Ishaq I. Chanda*

Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 03-0327.04

Expiration Date: March 24, 2010

Approval Date: March 24, 2005

Arch Aluminum & Glass Co., Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance dated 03-02-2005, signed by Dr. Humayoun Farooq, P.E.
2. Statement letter of "No financial interest to test lab" dated 12-11-2002, signed by Dr. Humayoun Farooq, P.E
3. Statement of Laboratory compliance, as part of above test reports.
4. Addendum letter dated 11-07-2003, issued by Fenestration Testing laboratory Inc, reviewed, signed and sealed by Edmundo Largaespada

**G. OTHER**

1. Correspondence between Al-Farooq Corporation (Consultant Arch Aluminum) and BCCO dated 12-01-04 and 1-22-04.

Ishaq I. Chanda

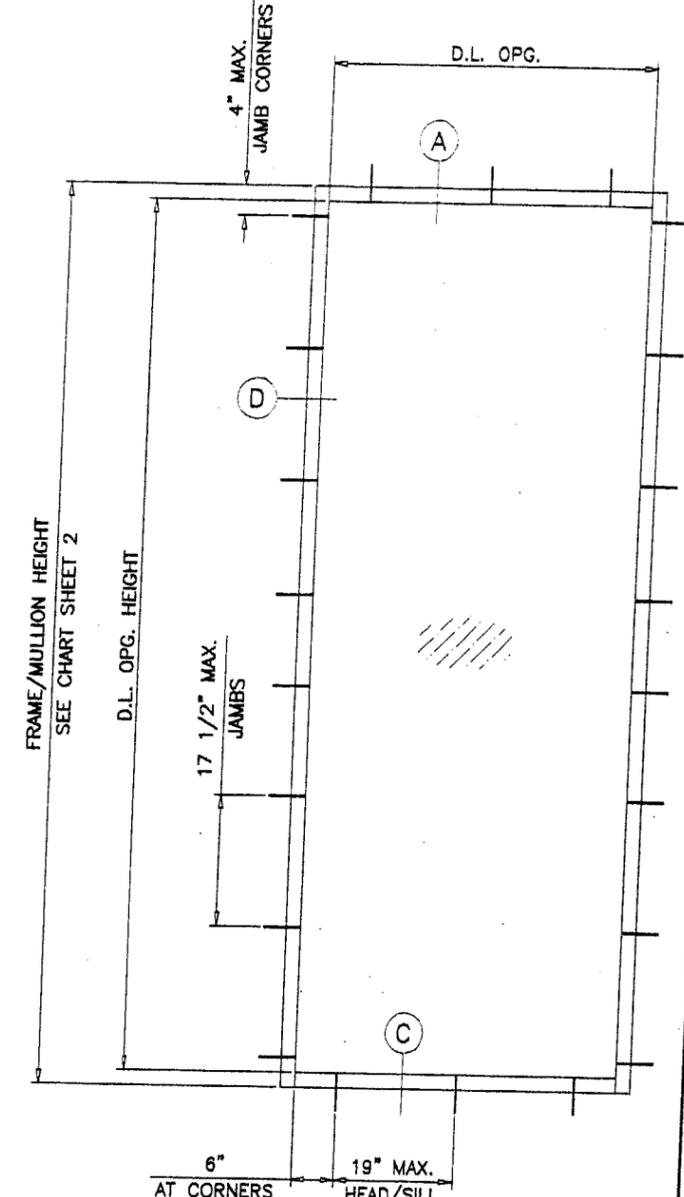
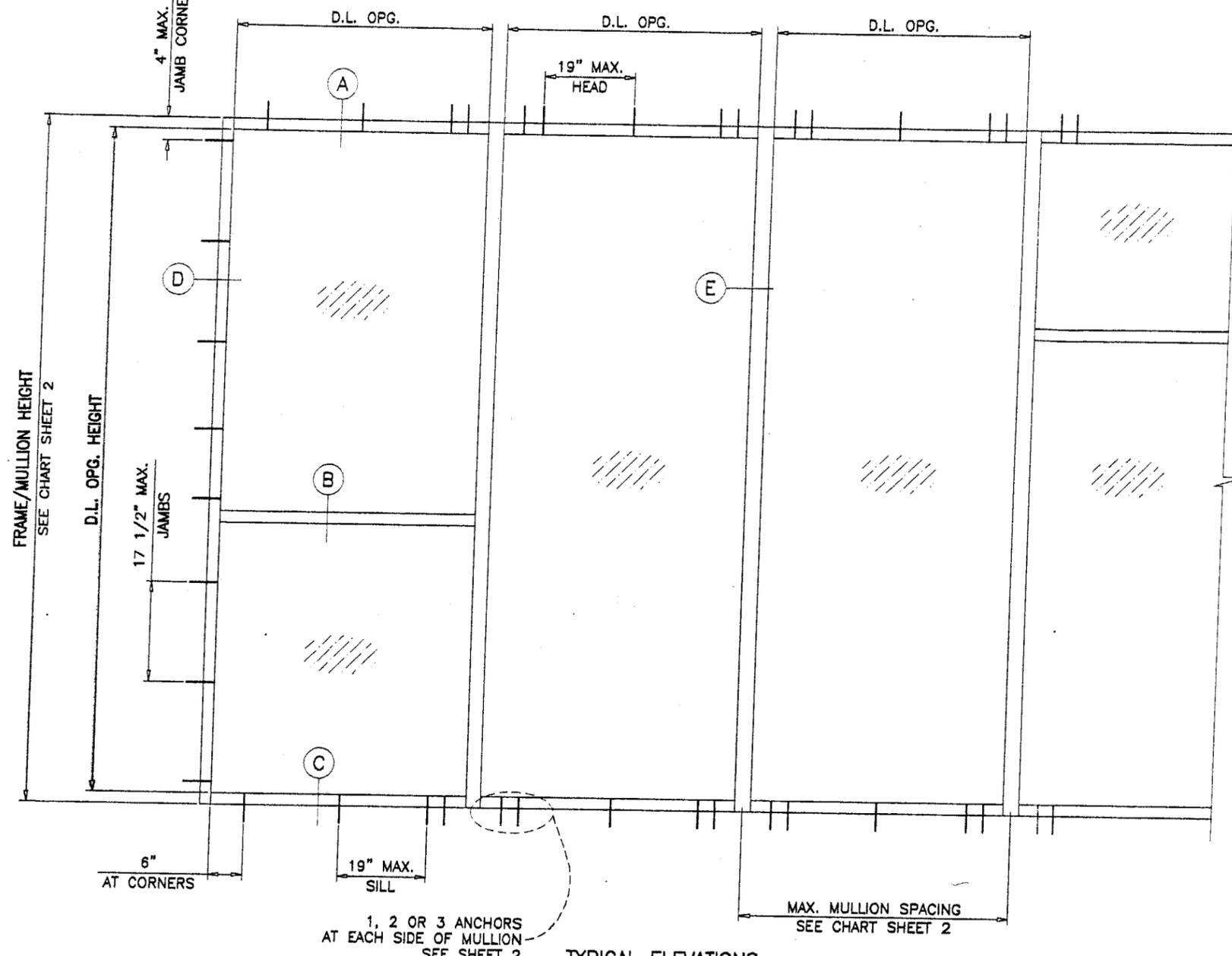
Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 03-0327.04

Expiration Date: March 24, 2010

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1, 2 OR 3 ANCHORS  
AT EACH SIDE OF MULLION  
SEE SHEET 2

**TYPICAL ELEVATIONS**

**SERIES-3100 ALUM WINDOW WALL SYSTEM (IMPACT)**

STOREFRONT SYSTEM IS RATED FOR LARGE MISSILE IMPACT.  
SHUTTERS ARE NOT REQUIRED.

SEE SHEET 2 TO DETERMINE DESIGN LOAD CAPACITY OF GLASS  
TYPES 'A' AND 'B' FOR DIFFERENT OPNG. SIZES.

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.

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.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.  
A 33% INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS.

Approved as complying with the  
Florida Building Code  
Date March 24, 2005  
NOA# 02-0327-01  
Miami Dade Product Control  
Division  
By Sheq. J. Chaudh

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

**DEC 15 2004**

SERIES-3100 ALUM WINDOW WALL SYSTEM (IMPACT)  
**ARCH ALUMINUM & GLASS L.C.**  
10200 N.W. 67th street  
TAMARAC, FL. 33321  
TEL (800) 432-8132 FAX. (954) 724-9293

no	date	description	by
A	09.16.03	REV. PER BCCO COMMENTS	
B	01.29.04	REV. PER BCCO COMMENTS	
C	07.21.04	GENERAL REVISION	
D	12.13.04	INTERMEDIATE HORIZ. ADDED	

date: 09-17-02  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W02-85**

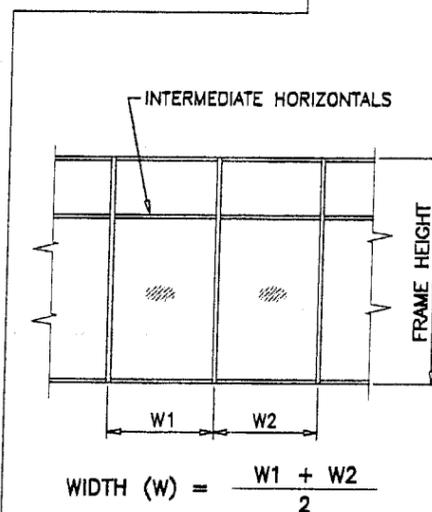
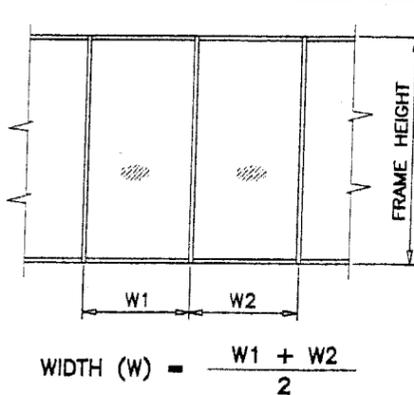
sheet 1 of 5

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

STORE/W02-85AA

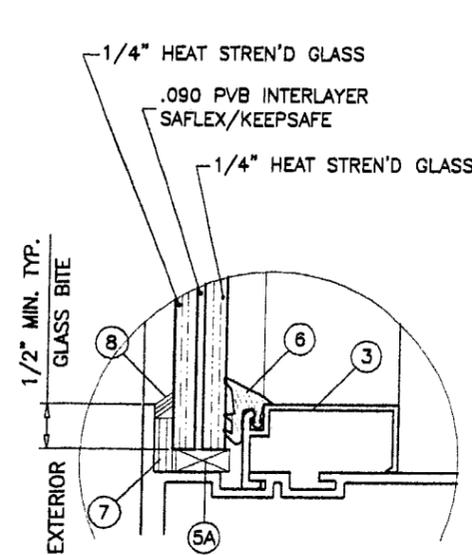
DESIGN LOAD CAPACITY - PSF  
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		GLASS TYPE A			GLASS TYPE B		
		ANCHORS TYPE 'A2'	ANCHORS TYPE 'A3'	ANCHORS TYPE 'B1', 'C1'	ANCHORS TYPE 'A2'	ANCHORS TYPE 'A3'	ANCHORS TYPE 'B1', 'C1'
WIDTH (W)	FRAME HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
24"	78"	70.0	70.0	70.0	80.0	80.0	80.0
30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	80.0	80.0	80.0
48"		70.0	70.0	70.0	79.0	80.0	80.0
54"		70.0	70.0	70.0	70.0	80.0	80.0
60"		63.0	70.0	70.0	63.0	80.0	80.0
24"	84"	70.0	70.0	70.0	80.0	80.0	80.0
30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	80.0	80.0	80.0
48"		70.0	70.0	70.0	74.0	80.0	80.0
54"		65.0	70.0	70.0	65.0	80.0	80.0
60"		59.0	70.0	70.0	-	-	-
24"	90"	70.0	70.0	70.0	80.0	80.0	80.0
30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	78.0	80.0	80.0
48"		69.0	70.0	70.0	69.0	80.0	80.0
54"		61.0	70.0	70.0	-	-	-
24"	96"	70.0	70.0	70.0	80.0	80.0	80.0
30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	74.0	80.0	80.0
48"		64.0	70.0	70.0	64.0	78.6	78.6
54"		57.0	70.0	70.0	-	-	-

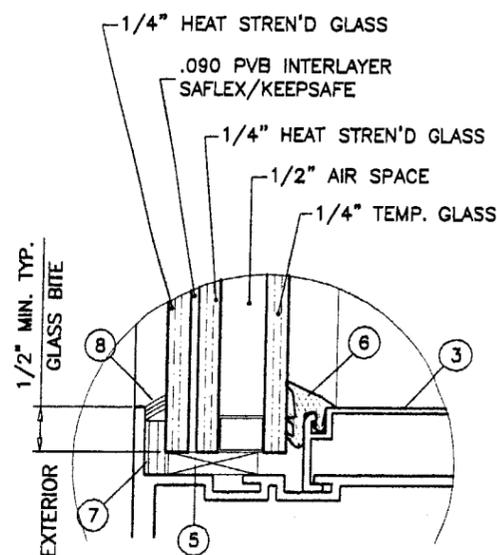


DESIGN LOAD CAPACITY - PSF  
WITH INTERMEDIATE HORIZONTALS

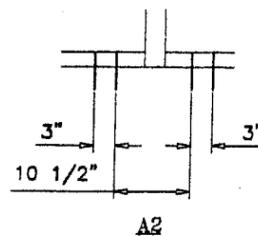
NOMINAL DIMS.		GLASS TYPE A			GLASS TYPE B		
		ANCHORS TYPE 'A2'	ANCHORS TYPE 'A3'	ANCHORS TYPE 'B1', 'C1'	ANCHORS TYPE 'A2'	ANCHORS TYPE 'A3'	ANCHORS TYPE 'B1', 'C1'
WIDTH (W)	FRAME HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
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30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	80.0	80.0	80.0
48"		70.0	70.0	70.0	79.0	80.0	80.0
54"		70.0	70.0	70.0	70.0	80.0	80.0
60"		63.0	70.0	70.0	63.0	80.0	80.0
24"	84"	70.0	70.0	70.0	80.0	80.0	80.0
30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	80.0	80.0	80.0
48"		70.0	70.0	70.0	74.0	80.0	80.0
54"		65.0	70.0	70.0	65.0	80.0	80.0
60"		59.0	70.0	70.0	-	-	-
24"	90"	70.0	70.0	70.0	80.0	80.0	80.0
30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	78.0	80.0	80.0
48"		69.0	70.0	70.0	69.0	80.0	80.0
54"		61.0	70.0	70.0	-	-	-
24"	96"	70.0	70.0	70.0	80.0	80.0	80.0
30"		70.0	70.0	70.0	80.0	80.0	80.0
36"		70.0	70.0	70.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	74.0	80.0	80.0
48"		64.0	70.0	70.0	64.0	71.0	71.0
54"		57.0	63.1	63.1	-	-	-



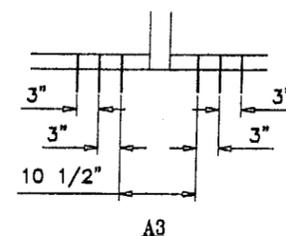
GLASS TYPE 'A'  
9/16" OVERALL LAMINATED GLASS  
LAMINATED BY 'ARCH'



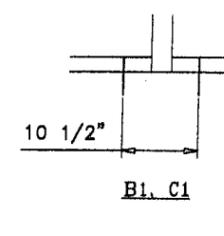
GLASS TYPE 'B'  
1-5/16" OVERALL INSUL. GLASS  
LAMINATED BY 'ARCH'



A2



A3



B1, C1

ANCHORS TYPES: SEE SHEET 3 FOR DESCRIPTION

- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B1 = (1) ANCHOR TYPE 'B' AT EACH SIDE OF MULLION
- C1 = (1) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

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

DEC 15 2004

Approved as complying with the  
Florida Building Code  
Date MARCH 24, 2005  
NOAH 02-0327-04  
Miami Dept Product Control  
Division  
By Isaac J. Claude

**ALFC**

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
STORE W02-85AA

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**ARCH ALUMINUM & GLASS L.C.**  
10200 N.W. 67th street  
TAMARAC, FL. 33321  
TEL (800) 432-8132 FAX (954) 724-9293

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SERIES-3100 ALUM WINDOW WALL SYSTEM (IMPACT)

no	date	description
A	09.16.03	REV. PER BCCO COMMENTS
B	01.29.04	CHARTS REV.
C	07.21.04	GENERAL REVISION
D	12.13.04	INTERMEDIATE HORIZ. ADDED

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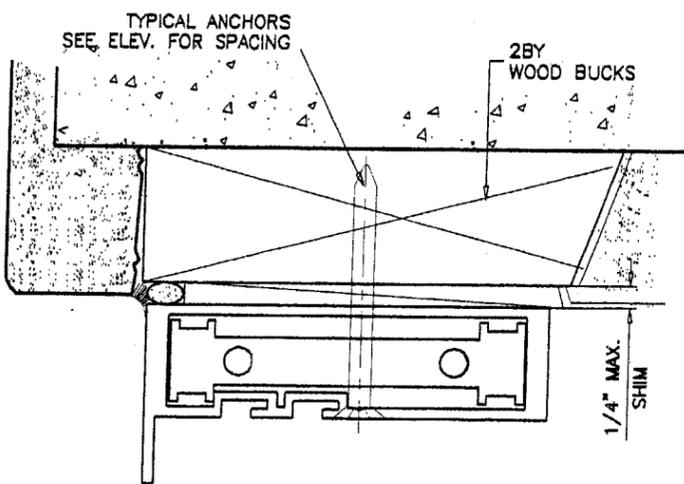
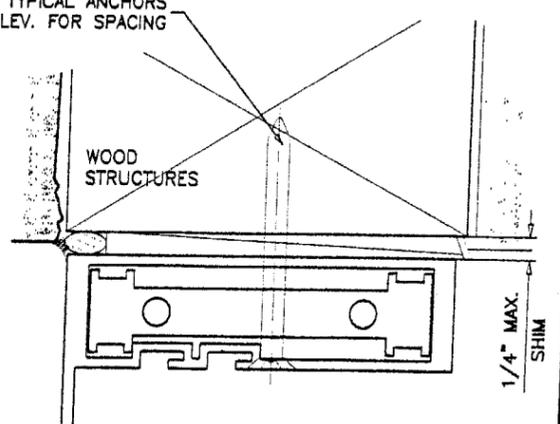
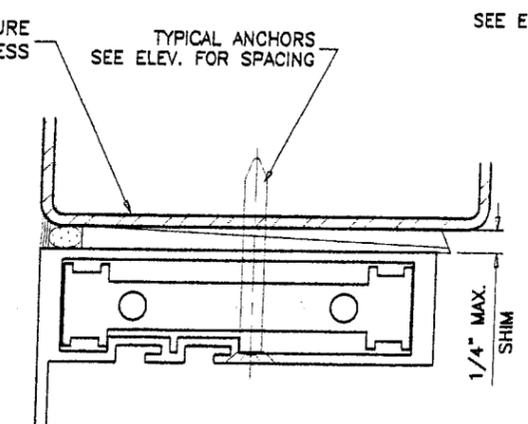
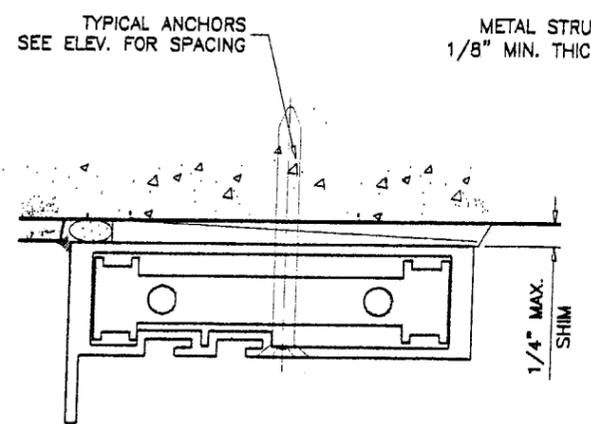
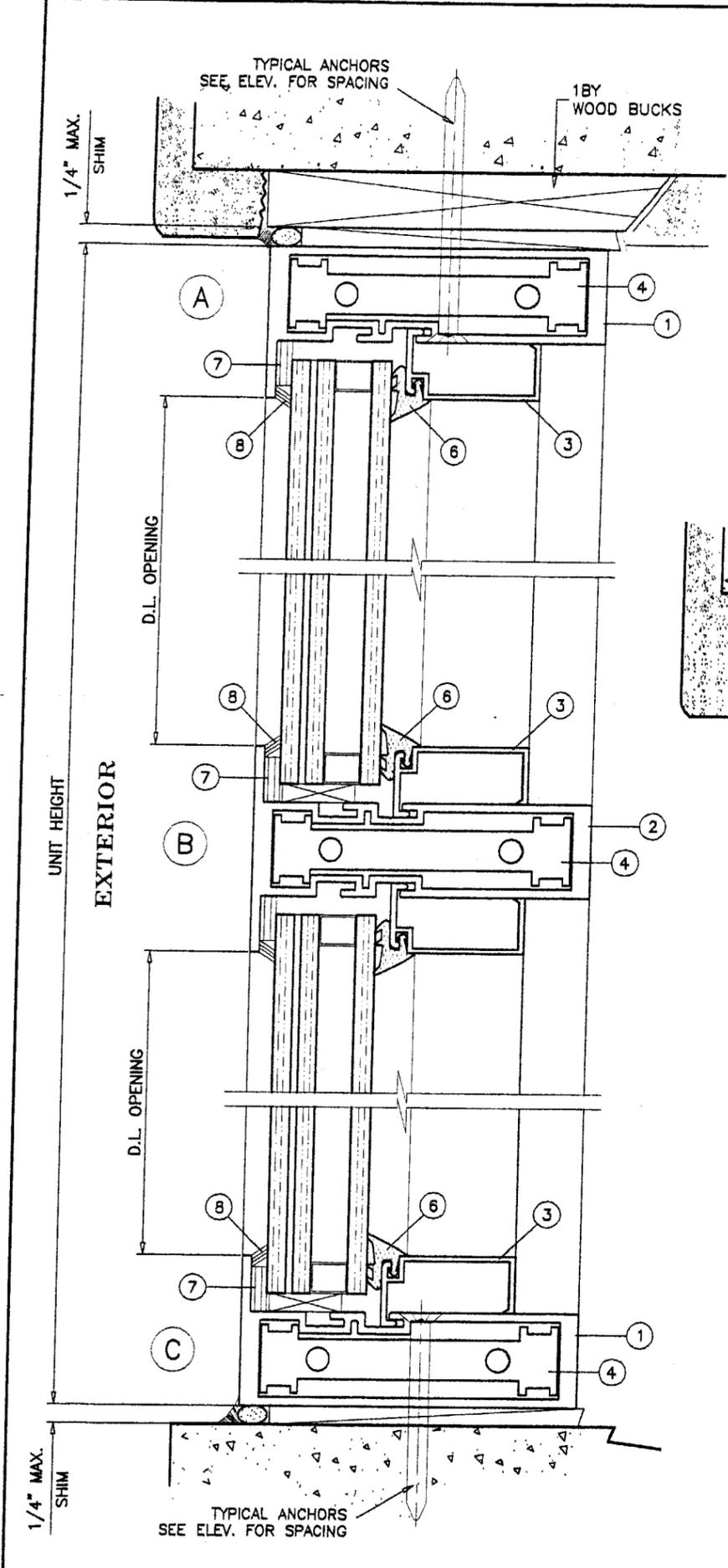
date: 09-17-02  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

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drawing no.  
**W02-85**

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sheet 2 of 5



WOOD BUCKS NOT BY ARCH ALUM, MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

- TYPE 'A'- 1/4" TAPCONS  
 INTO WOOD STRUCTURES  
 1-3/4" MIN. PENETRATION INTO WOOD  
 THRU 1BY OR 2BY WOOD BUCKS INTO  
 3000 PSI MIN. CONC. OR C-90 GROUT FILLED BLOCK  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- TYPE 'B'- 1/4" TAPCONS  
 DIRECTLY INTO  
 3000 PSI MIN. CONC. OR C-90 GROUT FILLED BLOCK  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- TYPE 'C'- #14 SMS OR 1/4" SELF DRILLING SCREWS  
 INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICK.)  
 STEEL : Fy = 36 KSI MIN.  
 ALUMINUM : 6063-T5 MIN.  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE  
 INTO CONCRETE AND MASONRY = 3" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

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 Date March 24, 2005  
 NOA# 02-0327-04  
 Miami Dade Product Control  
 Division  
 By Isaac I. Uande

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
  
 DEC 15 2004

**ALFC**

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 MIAMI, FLORIDA 33174  
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no	date	description	by
A	09.16.03	NO CHANGE THIS SHEET	
B	01.29.04	NO CHANGE THIS SHEET	
C	07.21.04	GENERAL REVISION	
D	12.13.04	INTERMEDIATE HORIZ. ADDED	

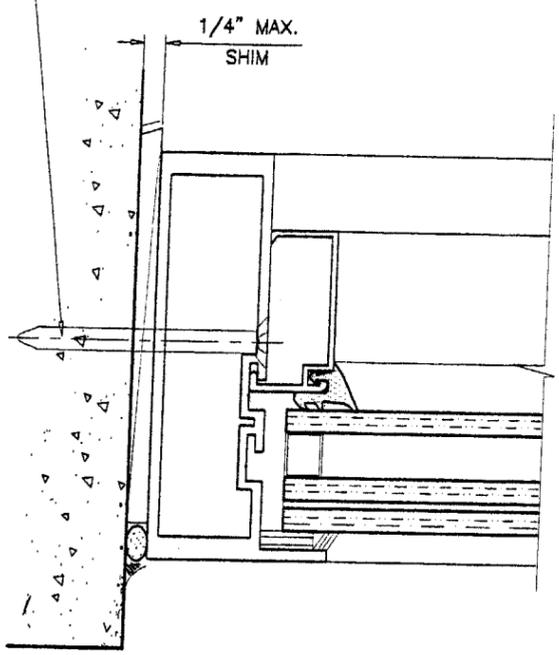
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date: 09-17-02  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

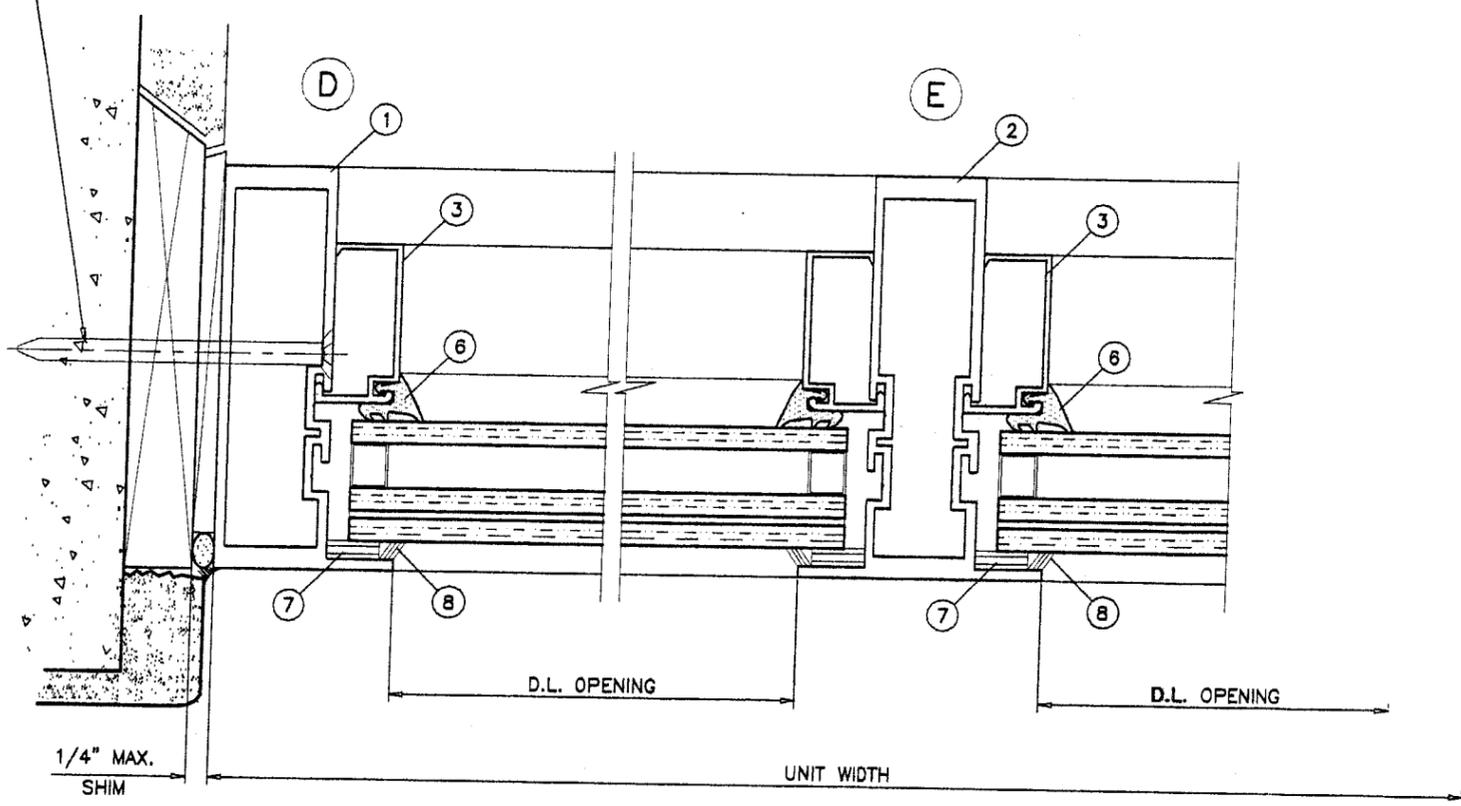
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drawing no.  
**W02-85**  
 sheet 3 of 5

TYPICAL ANCHORS  
SEE ELEV. FOR SPACING



TYPICAL ANCHORS  
SEE ELEV. FOR SPACING



1/4" MAX.  
SHIM

UNIT WIDTH

EXTERIOR

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	3101	AS REQD.	FRAME HEAD/JAMB	6063-T6	ARCH
2	3102	AS REQD.	INTERMEDIATE VERTICAL/HORIZONTAL	6063-T6	ARCH
3	3103	AS REQD.	GLASS STOP	6063-T5	ARCH
4	3104	AS REQD.	SHEAR BLOCK	6063-T5	ARCH
5	H-62E	-	SETTING BLOCK (INSUL. GLASS)	NEOPRENE	1/8" X 1/2" X 2"
5A	H62	-	SETTING BLOCK	NEOPRENE	ARCH
6	H63	AS REQD.	WEDGE IN GASKET	NEOPRENE	UNIVERSAL RUBBER CO.
7	V2100	AS REQD.	GLAZING TAPE	-	NORTON
8	995	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING
9	1/4-20 X 3/4"	2/ CORNER	FLAT HEAD THREAD CUTTING SCREWS	-	-
10	1/4-20 X 1-1/2"	2/ CORNER	PAN HEAD THREAD CUTTING SCREWS	-	-

Approved as complying with the  
Florida Building Code  
Date: MARCH 24, 2005  
NOA# 03-0327-04  
Miami Dade Product Control  
Division  
By: Isag J. Chande

Engr. DR. HUMAYOUN FAROOQ  
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DEC 15 2004

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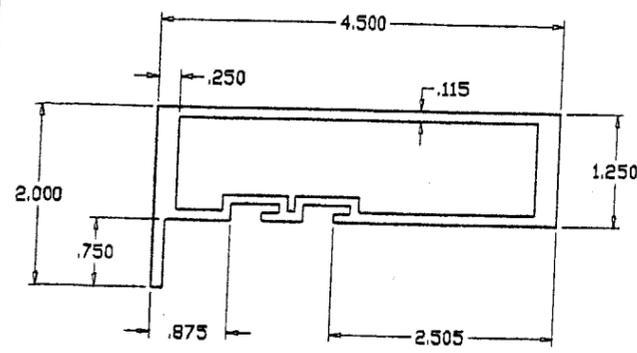
no	date	by	description
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dr. by: HAMID  
chk. by:

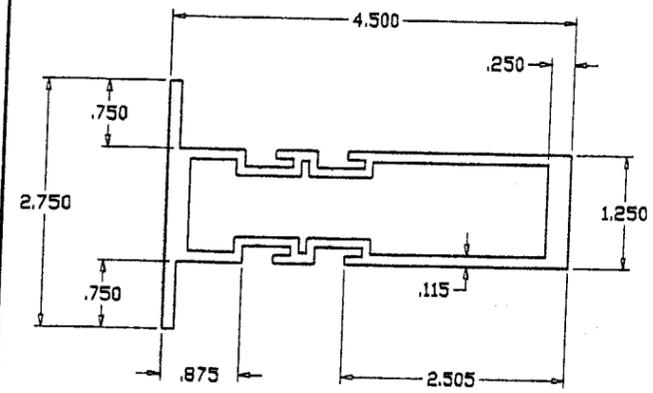
drawing no.  
**W02-85**  
sheet 4 of 5

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

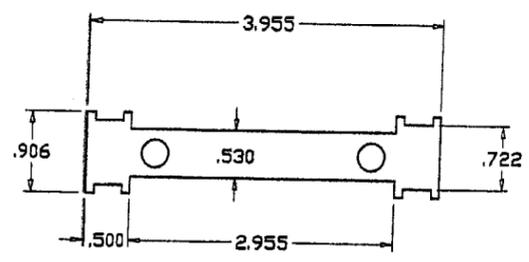
STORE W02-85AA



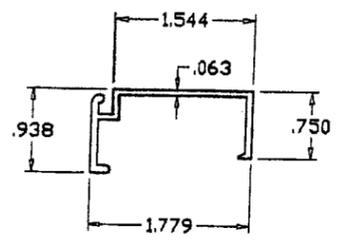
① FRAME HEAD/SILL/JAMB



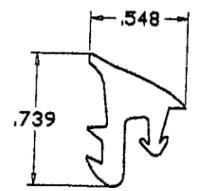
② INTERMEDIATE VERTICAL/HORIZONTAL



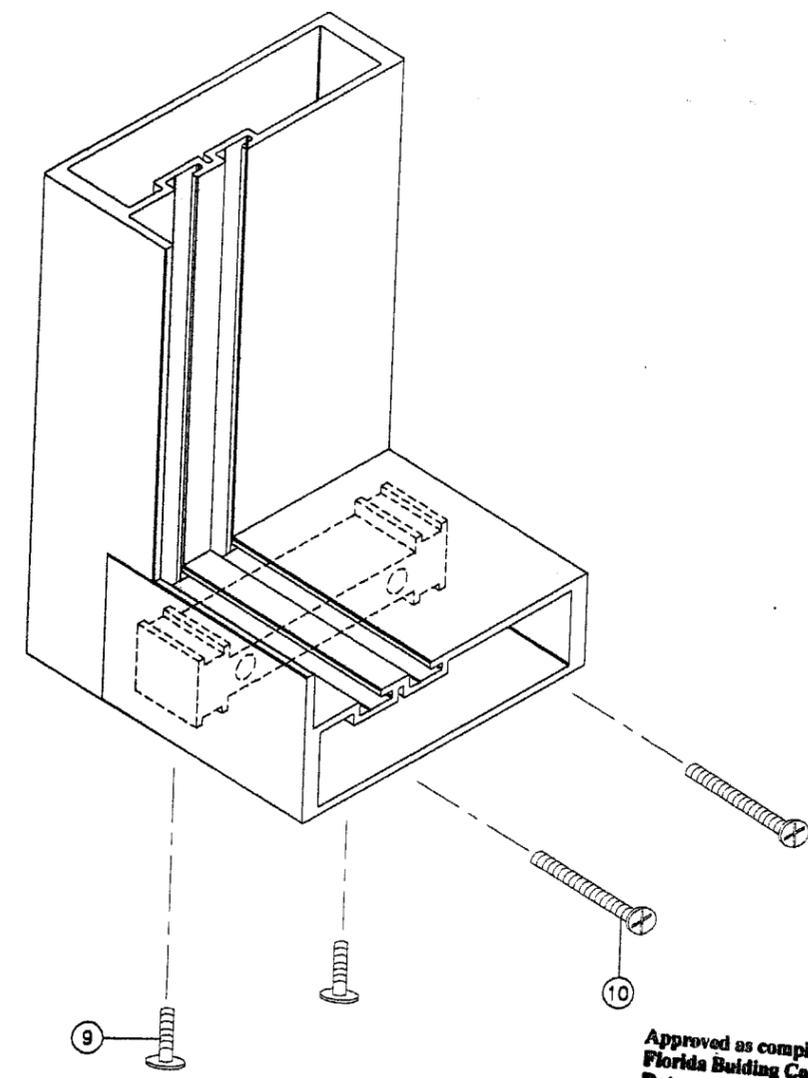
④ SHEAR BLOCK



③ GLAZING STOP



⑥ WEDGE-IN GASKET



FRAME CORNER HEAD & SILL

Approved as complying with the Florida Building Code  
 Date: March 24, 2005  
 NOA#: 03-0327.04  
 Miami Dade Product Control Division  
 By: Shaq I. Lhande

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

DEC 15 2004

**afc**  
 AL-FAROOQ CORPORATION  
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SERIES-3100 ALUM WINDOW WALL SYSTEM (IMPACT)  
 ARCH ALUMINUM & GLASS L.C.  
 10200 N.W. 67th street  
 TAMARAC, FL. 33321  
 TEL. (800) 432-8132 FAX. (954) 724-9293

no	date	by	description
A	09.16.03		REV. PER BCCO COMMENTS
B	01.29.04		NO CHANGE THIS SHEET
C	07.21.04		GENERAL REVISION
D	12.13.04		INTERMEDIATE HORIZ. ADDED

date: 09-17-02  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W02-85**

sheet 5 of 5