



**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 "Impact Wall 3000" Aluminum Storefront System-Impact

APPROVAL DOCUMENT: Drawing No. W98-42, titled "Impactwall 3000" Alum Window Wall Sys", sheets 1 through 4 of 4, dated 12/09/98 and last revised on 10-09-02, prepared by Al Farooq Corporation, signed and sealed by Dr. 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 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 revises 01-0329.02 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



**NOA No 02-0507.04
Expiration Date: December 05, 2003
Approval Date: December 05, 2002
Page 1**

Arch Aluminum & Glass Co., 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. **W98-42**, titled "Impactwall 3000" Alum Window Wall Sys", sheets 1 through 4 of 4, dated 12/09/98 and last revised on 10-09-02, prepared by Al Farooq Corporation, signed and sealed by Dr. Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Large Missile Impact Test PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
along with installation diagram of an aluminum window wall system marked-up by Fenestration Testing Laboratory, Inc. Test Reports Nos. **FTL-3326 (01088)**, report dated January 09, 2002, signed and sealed by Luis Antonio Figueredo, P.E.
2. **Tests report transferred from NOA. 01-0329.02 (test Submitted under previous approval #98-1216.06)**
- 2.1 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-1010**, dated Oct. 25, 1994, signed and sealed by Yamil Gerardo Kuri, P.E.
- 2.2 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
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2221**, dated Dec. 9, 1998, signed and sealed by Gilbert Diamond, P.E.

C. CALCULATIONS

1. Anchor calculations and structural analysis, prepared by Al-Farooq Corp., dated 04/27/02, signed and sealed by Dr. Humayoun Farooq, P.E.
2. Anchor calculations and structural analysis, prepared by Al-Farooq Corp., dated 12/8/98, signed and sealed by Dr. Humayoun Farooq, P.E. (**Submitted under previous approval #98-1216.06**)

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc. for "Polyvinyl Butyral Interlayer Saflex/ Keep SafeMax", expiring on 05/21/2006.

E. STATEMENTS

1. Statement letter of conformance and "No financial interest to test lab" dated 02-08-2002, signed by Dr. Humayoun Farooq, P.E.
2. Statement letter dtd 10-07-02 issued by Arch Aluminum w/ request for one year approval and acknowledgement for verification test per TAS 201, 202 & 203 to be completed.

F. OTHER

1. BCCO test proposal dated October 03, 2002 for verification test per TAS 201, 202 & 203.
2. This NOA revises No. **01-0329.02**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.

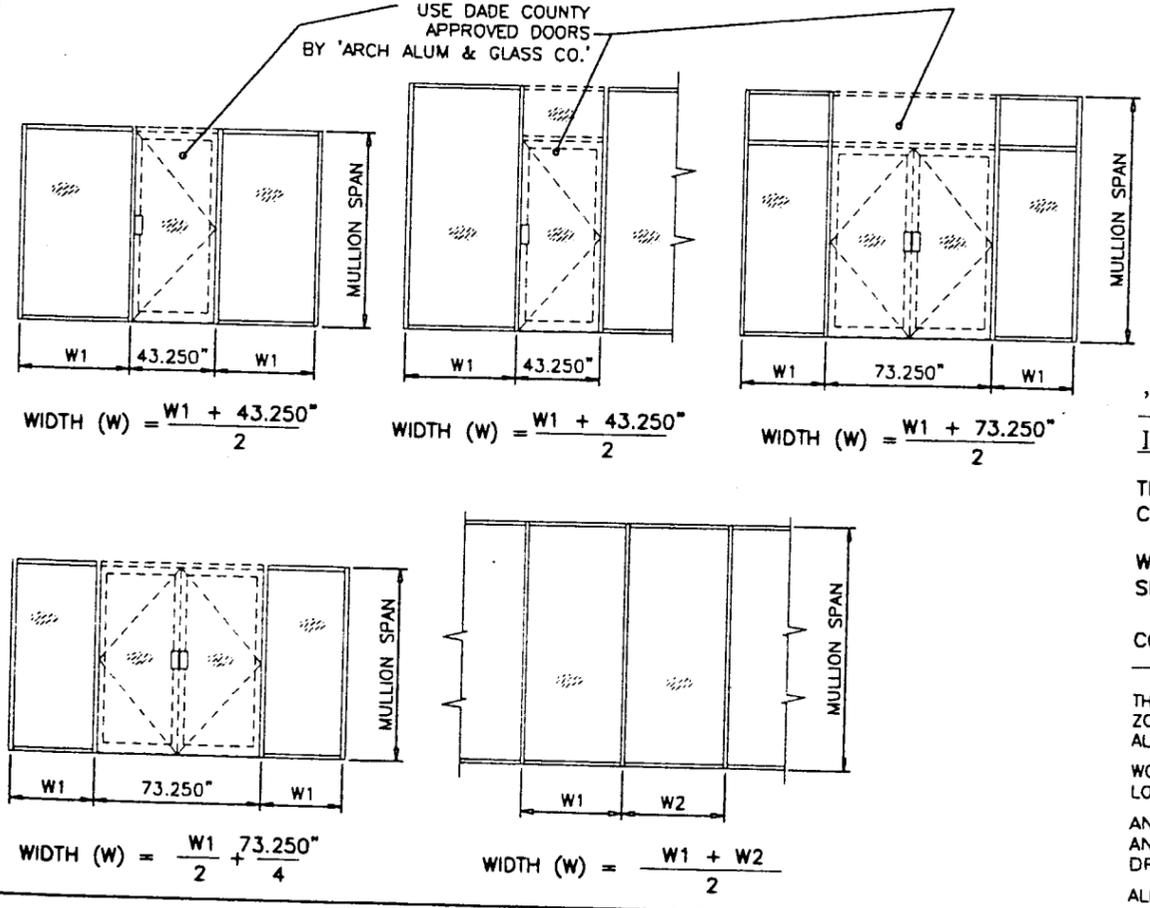
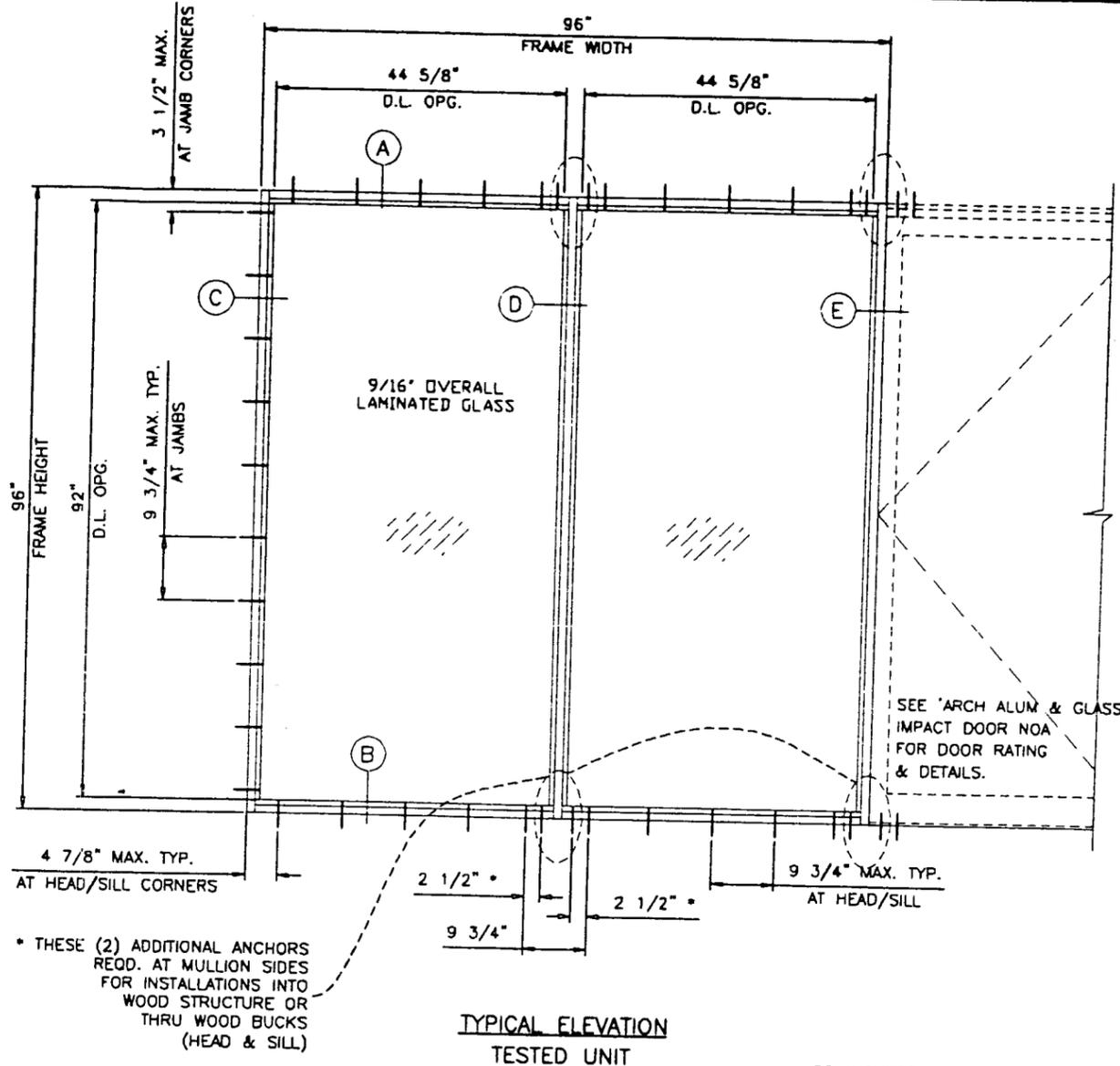
Product Control Examiner

NOA No 02-0507.04

Expiration Date: December 05, 2003

Approval Date: December 05, 2002

| 9/16" OVERALL LAMINATED GLASS (IMPACT RESISTANT) | | | |
|--|--------------|--------------------------|----------|
| DIMENSIONS | | DESIGN LOAD CAPACITY-PSF | |
| WIDTH (W) | FRAME HEIGHT | EXT. (+) | INT. (-) |
| 30" | 72" | 86.7 | 87.3 |
| 36" | | 86.7 | 87.3 |
| 42" | | 86.7 | 87.3 |
| 48" | | 86.7 | 87.3 |
| 54" | | 86.7 | 87.3 |
| 60" | 86.7 | 87.3 | |
| 30" | 78" | 86.7 | 87.3 |
| 36" | | 86.7 | 87.3 |
| 42" | | 86.7 | 87.3 |
| 48" | | 86.7 | 87.3 |
| 54" | | 86.7 | 87.3 |
| 30" | 84" | 86.7 | 87.3 |
| 36" | | 86.7 | 87.3 |
| 42" | | 86.7 | 87.3 |
| 48" | | 86.7 | 87.3 |
| 54" | | 86.7 | 87.3 |
| 30" | 90" | 86.7 | 87.3 |
| 36" | | 86.7 | 87.3 |
| 42" | | 86.7 | 87.3 |
| 48" | | 86.7 | 87.3 |
| 54" | | 86.7 | 87.3 |
| 30" | 96" | 86.7 | 87.3 |
| 36" | | 86.7 | 87.3 |
| 42" | | 86.7 | 87.3 |
| 48" | | 86.7 | 87.3 |
| 54" | | 86.7 | 87.0 |



'IMPACT WALL 3000' WINDOW WALL SYSTEM
INSIDE OR OUTSIDE GLAZED

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED ENTRANCE DOORS BY 'ARCH ALUM & GLASS CO.'

WINDOW WALL SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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 USING CORRESPONDING LOADS.

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.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

Engr. DR. HUMAYUN FAROOQ
STRUCTURES
FLA. PE # 16557

OCT 16 2002

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-0507.04
Expiration Date DECEMBER 2005, 2008
By Ismael I. Chanda
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
STORE 98-42A

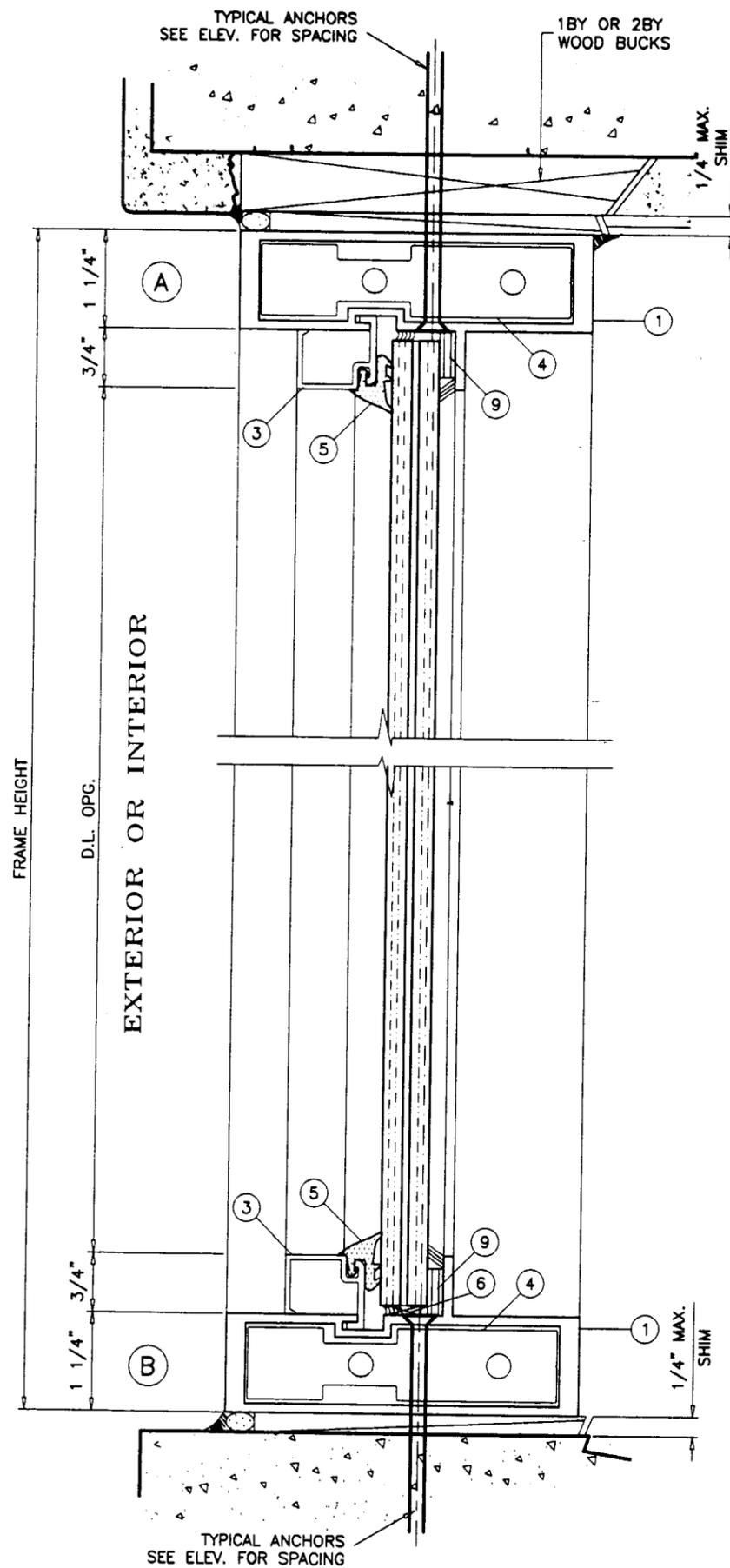
IMPACTWALL 3000' ALUM WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th street
TAMARAC, FL. 33321
TEL. (800) 432-8132 FAX. (954) 724-9293

| no. | date | description |
|-----|----------|----------------------------|
| A | 03.15.99 | LAMINATE THICKNESS REVISED |
| B | 05.01.02 | GENERAL REVISION |
| C | 10.09.02 | REV. PER BECCO COMMENTS |

revisions:

date: 12-09-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. 98-42
sheet 1 of 4

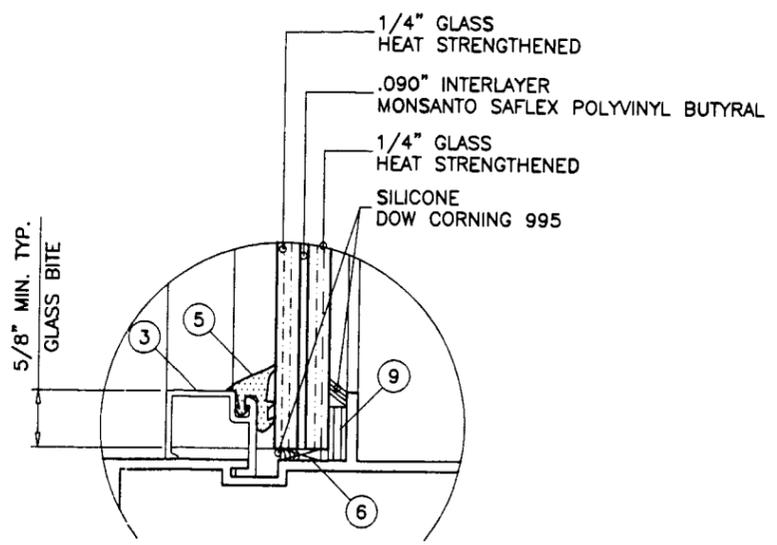


WOOD BUCKS NOT BY ARCH ALUM, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 INTO WOOD STRUCTURES
 1/4" TAPCONS (ELCO) WITH 1-3/4" MIN. PENETRATION INTO WOOD
 THRU 1BY OR 2BY WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
 1/4" TAPCONS (ELCO) WITH 1-1/4" MIN. EMBED INTO MASONRY
 INTO STEEL OR METAL STRUCTURES (1/8" MIN. THICKNESS)
 # 14 SMS OR 1/4" SELF DRILLING SCREWS (GRADE 2 CRS MIN.)

SEALANTS:
 GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 995.
 FRAME CORNERS SEALED WITH DOW CORNING 999.

THIS PRODUCT MAY BE INSTALLED INSIDE OR OUTSIDE GLAZED



TYPICAL GLAZING DETAIL

Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 OCT 16 2002

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 02-0507-04
 Expiration Date 02/25/2003
 By: Ishag I. Lhanda
 Miami Dade Product Control
 Division

afc

AL-FAROOQ CORPORATION
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IMPACTWALL 3000' ALUM WINDOW WALL SYS.
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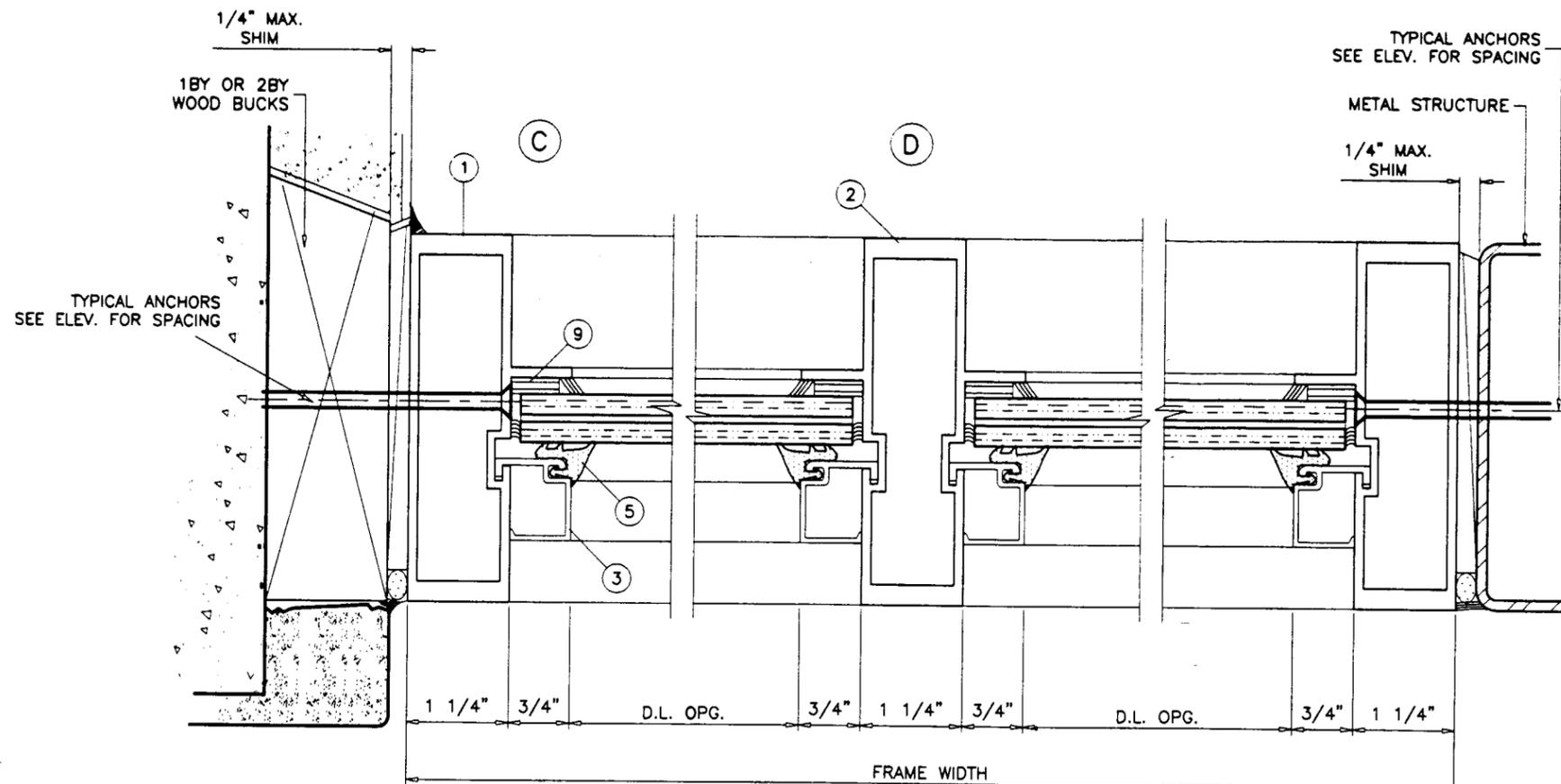
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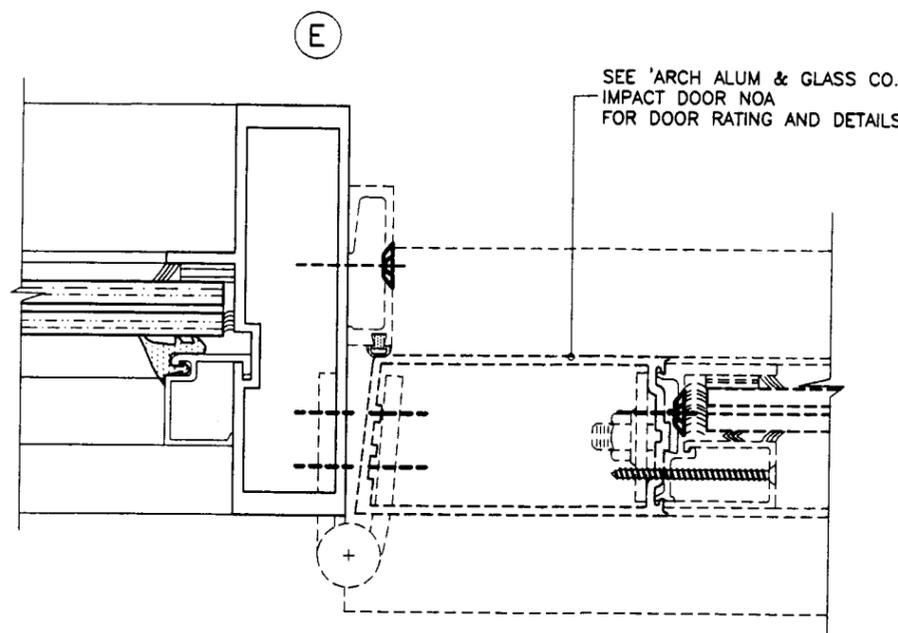
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 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
98-42

sheet 2 of 4



EXTERIOR OR INTERIOR



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
OCT 16 2002

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 02-0507-04
Expiration Date DEC 05, 2003
By Ishag J. Lunda
Miami Dade Product Control
Division

'IMPACTWALL 3000' ALUM WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th street
TAMARAC, FL. 33321
TEL. (800) 432-8132 FAX. (954) 724-9293

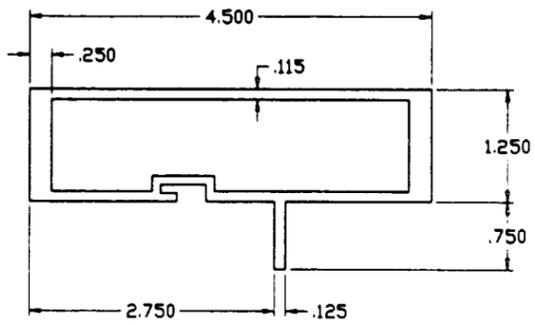
AL-FAROOQ CORPORATION
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STORE 98-42AA

| revisions: no | date | by | description |
|------------------|------|----|-------------|
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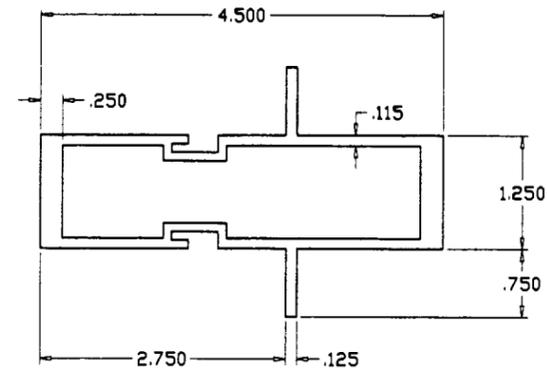
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dr. by: HAMID
chk. by:

drawing no.
98-42

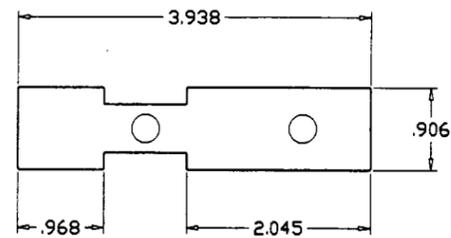
sheet 3 of 4



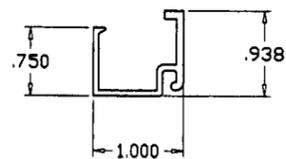
FRAME HEAD/SILL/JAMB



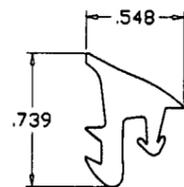
FRAME INTERMEDIATE MULLION



SHEAR BLOCK

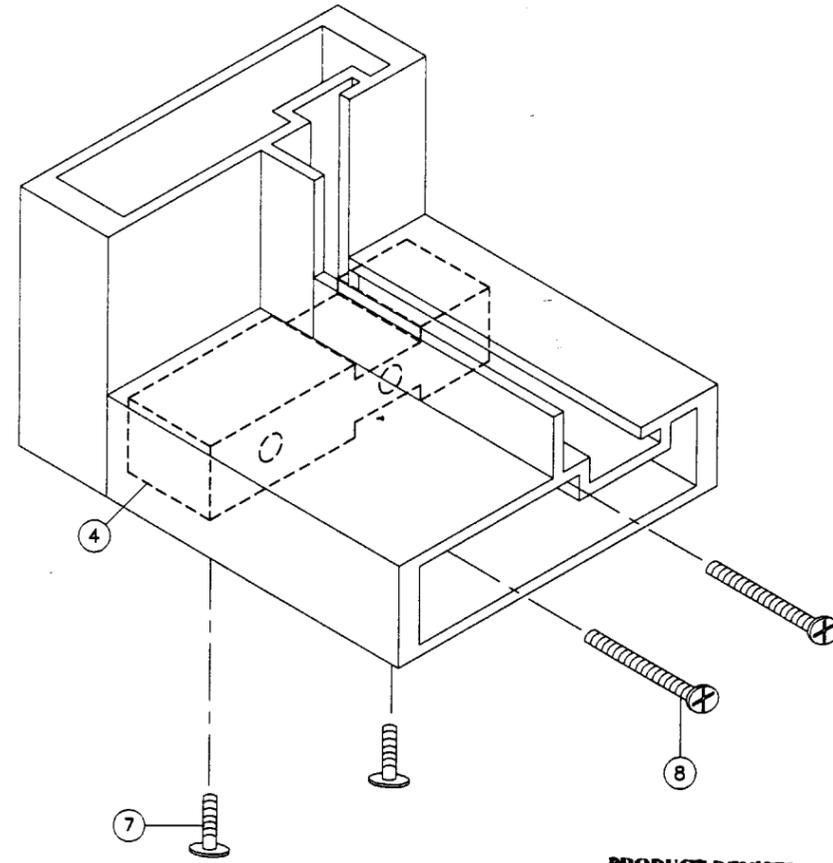


GLAZING STOP



WEDGE-IN GASKET

| MATERIALS LIST | | | | | |
|----------------|-----------------|-----------|---------------------------------------|----------|------------------------|
| ITEM NO. | PART NUMBER | QUANTITY | DESCRIPTION | MATERIAL | MANF./SUPPLIER/REMARKS |
| 1 | 3001 | AS REQD. | FRAME HEAD/SILL/JAMB | 6061-T6 | ARCH ALUM & GLASS CO. |
| 2 | 3002 | AS REQD. | INTERMEDIATE MULLION | 6061-T6 | ARCH ALUM & GLASS CO. |
| 3 | 3003 | AS REQD. | GLAZING STOP | 6061-T6 | ARCH ALUM & GLASS CO. |
| 4 | 3004 | 1/ CORNER | SHEAR BLOCK | ALUMINUM | - |
| 5 | H-63 | AS REQD. | GLAZING GASKET | VINYL | UNIVERSAL RUBBER CO. |
| 6 | - | AS REQD. | SETTING BLOCK (1/2" X 1/4" X 2" LONG) | NEOPRENE | - |
| 7 | #12-24 X 5/8" | 2/ CONER | FLAT HEAD THREAD CUTTING SCREWS | - | - |
| 8 | 1/4-20 X 1-1/2" | 2/ CORNER | PAN HEAD MACHINE SCREWS | - | - |
| 9 | V2100 | - | ADHESIVE FOAM TAPE | - | NORTON |



FRAME CORNER

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 02-0507-04
 Expiration Date DEC 05, 2003
 By Ishag I. Lhanda
 Senior Design Product Control
 Division

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557

007/16 2002

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| no | date | description |
|----|----------|------------------------|
| C | 10.09.02 | REV. PER BCCO COMMENTS |

| | |
|----------------|------------------|
| date: 12-09-98 | scale: 1/2" = 1" |
| dr. by: HAMID | chk. by: |

| | |
|--------------|-------|
| drawing no. | 98-42 |
| sheet 4 of 4 | |