



**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 Company, Inc.
10200 NW 67th 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 Florida Building Code, including High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "4500" Flush Glazed Aluminum Storefront System – N.I.

APPROVAL DOCUMENT: Drawing No. **00-13**, titled "Series 4500 Alum Flush Glaze Storefront SYS.", sheets 1 through 8 of 8, prepared by AL-Farooq Corporation, dated 07/06/00 and last revised on 12/02/05, signed and sealed by 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: None

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/renews NOA # 00-1220.05** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



**NOA No 05-0902.01
Expiration Date: March 19, 2011
Approval Date: January 26, 2006
Page 1**

Arch Aluminum & Glass Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **00-13**, titled "Series 4500 Alum Flush Glaze Storefront SYS.", sheets 1 through 8 of 8, prepared by AL-Farooq Corporation, dated 07/06/00 and last revised on 12/02/05, 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
along with installation diagram of an aluminum storefront system prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1548**, dated January 15, 1997, signed and sealed by Gilbert Diamond, P.E.
"Submitted under NOA 00-1220.05"

C. CALCULATIONS

1. Revised Anchor Calculation and Structural analysis, prepared by AL-Farooq Corporation, dated 08/23/05, signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300-02
No 1/3 stress increase used in anchors into masonry or steel substrate.
2. Mullion calculations and structural analysis, prepared by Al-Farooq Corporation, dated Nov. 16, 2000, signed and sealed by Humayoun Farooq, P.E.
"Submitted under NOA 00-1220.05"

D. QUALITY ASSURANCE BY

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

E. MATERIAL CERTIFICATIONS

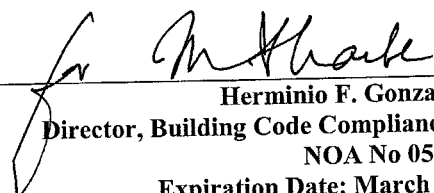
1. None

F. STATEMENTS

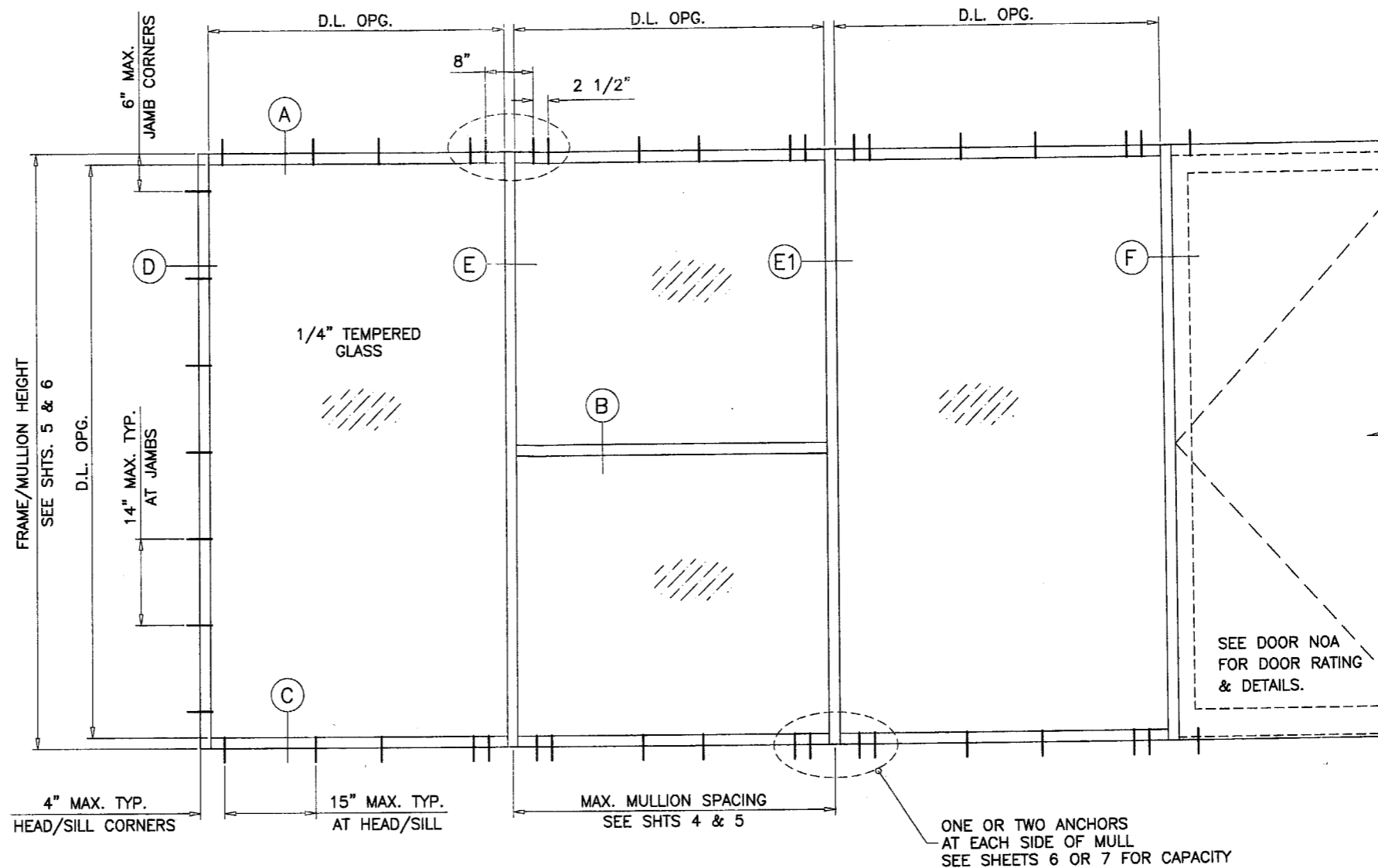
1. Statement letter of conformance and no financial interest, dated 08/23/05, signed and sealed by Humayoun Farooq.

G. OTHER

1. Letter from the consultant, dated 11/14/05, stating that the product is in compliance with the Florida Building Code (FBC).
2. Notice of Acceptance No. **00-1220.05**, issued to Arch Aluminum & Glass Company for their "Series 4500 Alum Flush Glaze Storefront SYS", approved on 04/12/01 and expiring on 03/19/06.



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 05-0902.01
Expiration Date: March 19, 2011
Approval Date: January 26, 2006



TYPICAL ELEVATION

SERIES 4500
ALUMINUM FLUSH GLAZED STOREFRONT SYSTEM

DOORS: THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED OUTSWING ENTRANCE DOORS.

MULLIONS: SEE SHEETS 4 AND 5 TO DETERMINE DESIGN LOAD CAPACITY OF MULLIONS FOR VARIOUS CONFIGURATIONS AND REINFORCEMENT.

ANCHORS: SEE SHEETS 6 & 7 TO DETERMINE THE CAPACITY OF ANCHOR OPTIONS.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION 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, 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.

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

STOREFRONT SYSTEM IS NOT RATED FOR IMPACT.
 INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

GLASS BASED ON ASTM E1300-02 (3 SEC. GUSTS)

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

DEC 05 2005

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0902.01
 Expiration Date 03/19/11
 By: *[Signature]*
 Miami Dade Product Control
 Division

afc

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE 00-13AAC

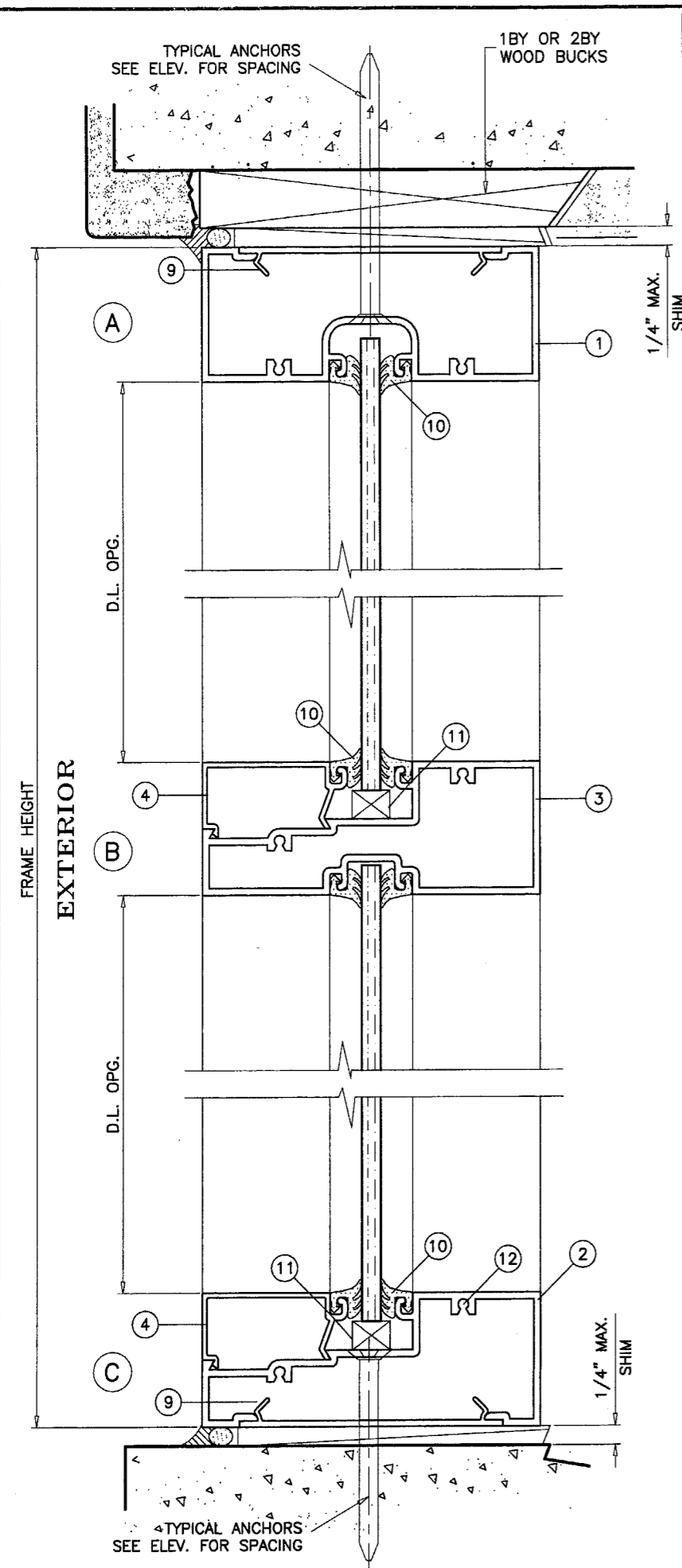
SERIES 4500 ALUM FLUSH GLAZE STOREFRONT SYS.
ARCH ALUMINUM & GLASS CO.
 10200 NORTHWEST 67TH STREET
 TAMARAC, FL 33321
 TEL. (800) 432-8132 FAX. (954) 724-9293

no	date	by	description
A	08.24.05		UPDATED FOR 2004 FBC
B	11.08.05		DTL. NO. REV.
C	12.02.05		REV. PER BCCO COMMENTS

date: 07-06-00
 scale: 1/2" = 1'-0"
 dr. by: HAMID
 chk. by:

drawing no.
00-13

sheet 1 of 8



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

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	4501	AS REQD.	FRAME HEAD	6063-T5	ARCH ALUM & GLASS CO.
2	4502	AS REQD.	FRAME HORIZONTAL/SILL	6063-T5	ARCH ALUM & GLASS CO.
3	4504	AS REQD.	FRAME HORIZONTAL	6063-T5	ARCH ALUM & GLASS CO.
4	4503	AS REQD.	GLAZING STOP	6063-T5	ARCH ALUM & GLASS CO.
5	4500	AS REQD.	FRAME JAMB/MULLION	6063-T6	ARCH ALUM & GLASS CO.
6	-	-	-	-	-
7	4007	AS REQD.	POCKET FILLER	6063-T6	ARCH ALUM & GLASS CO.
8	-	OPTIONAL	SILL FLASHING	6063-T5	ARCH ALUM & GLASS CO.
9	4008	AS REQD.	SNAP IN COVER, 2-1/2" LONG	6063-T5	ARCH ALUM & GLASS CO.
10	H-63	AS REQD.	GLAZING GASKET	NEOPRENE	ARCH ALUM & GLASS CO.
11	H-62	AS REQD.	SETTING BLOCK AT 1/4" POINTS	NEOPRENE	1/4" 1/2" X 2" LONG
12	#8 X 1-1/4"	2/ CORNER	ASSEMBLY SCREWS PHSMS	STEEL	-
13	-	AS REQD.	OPTIONAL REINFORCING	STEEL	-

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHOR 'A'
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 # 1/4" TAPCONS WITH 1-3/8" MIN. PENETRATION INTO WOOD

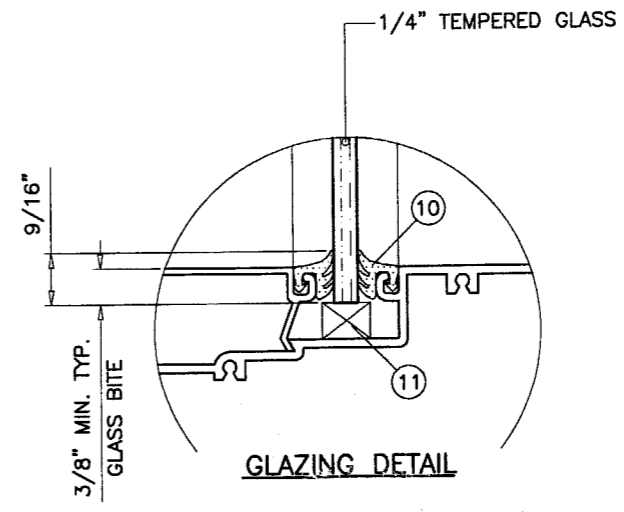
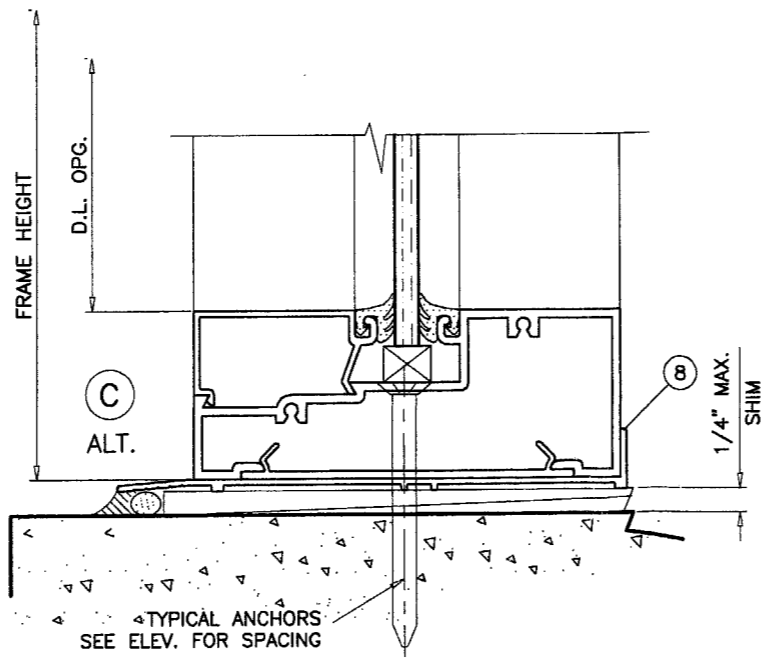
ANCHOR 'B'
 THRU WOOD BUCKS INTO MASONRY
 1/4" TAPCONS (ELCO OR EQUIV.) WITH 1-1/4" MIN. EMBED INTO MASONRY

ANCHOR 'C'
 DIRECTLY INTO MASONRY
 1/4" TAPCONS (ELCO OR EQUIV.) WITH 1-1/4" MIN. EMBED INTO MASONRY

ANCHOR 'C'
 INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICKNESS)
 # 14 SMS OR 1/4" SELF DRILLING SCREWS
 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.
 INTO METAL STRUCTURE = 3/8" MIN.

SEALANTS:
 GLAZING BEAD TO FRAME, MULLION AND FRAME SEAMS AND ALL FRAME CORNERS SEALED WITH CLEAR/ALUM COLORED SILICONE 'SCHNEE MOREHEAD 5504'.



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

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0902-11
 Expiration Date 03/15/11
 By: *M. H. H.*
 Miami Dade Product Control
 Division

DEC 05 2005

afc

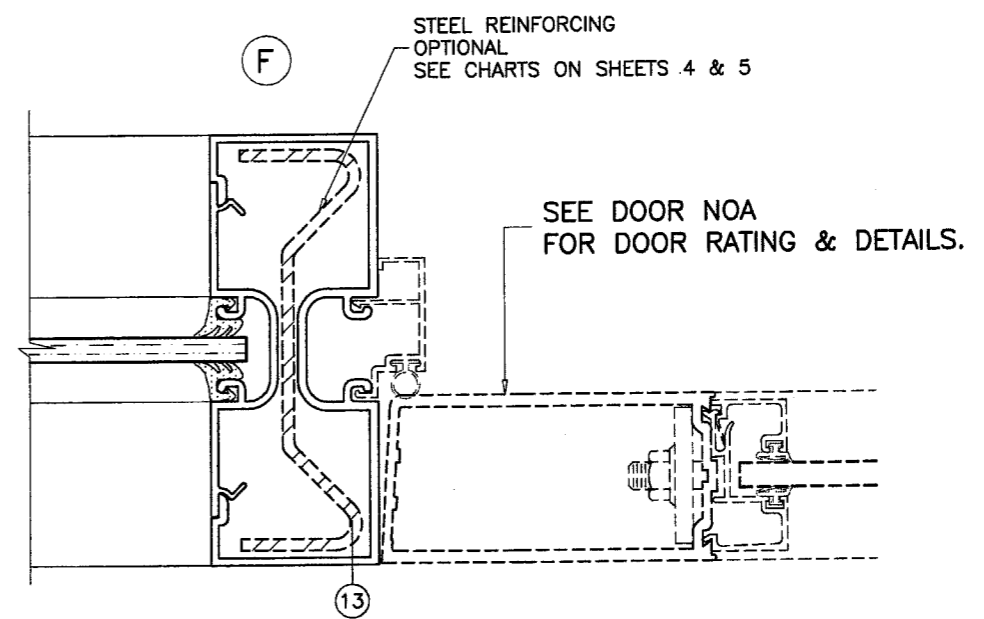
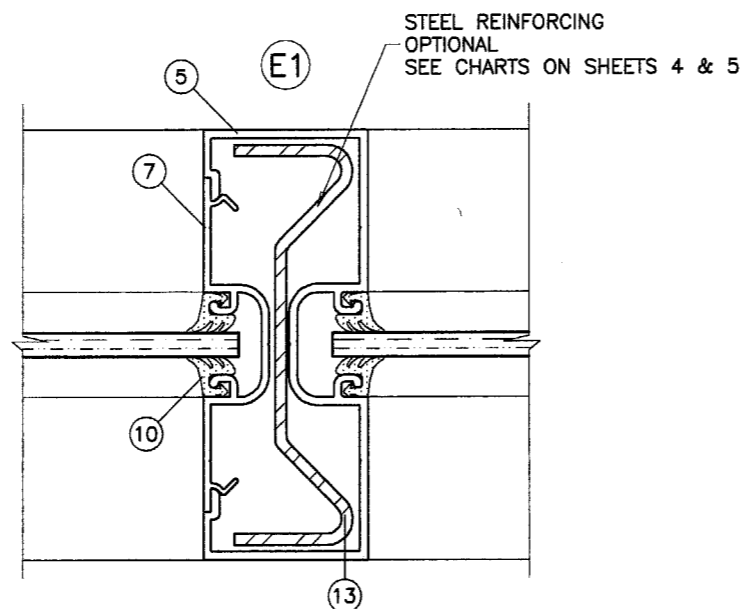
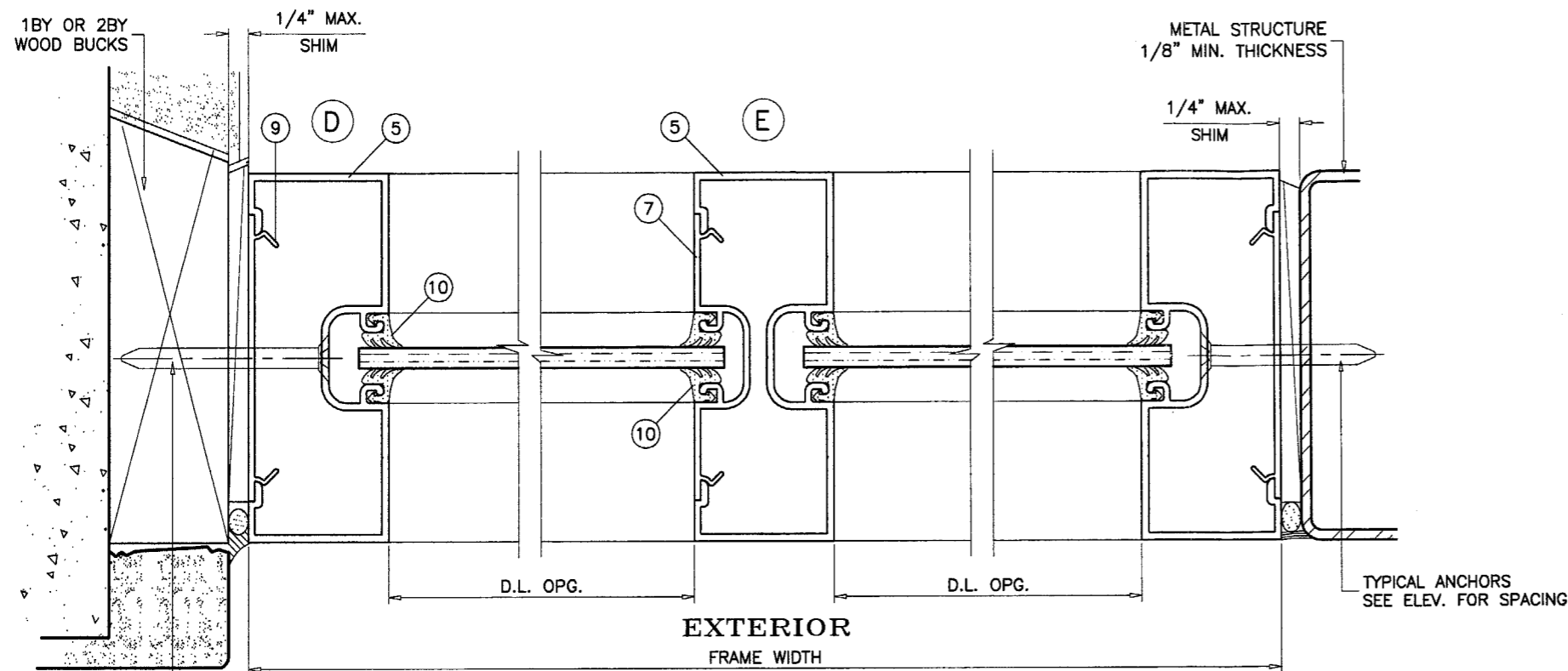
AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE \00-13AAC

SERIES 4500 ALUM FLUSH GLAZE STOREFRONT SYS.
ARCH ALUMINUM & GLASS CO.
 10200 NORTHWEST 67TH STREET
 TAMARAC, FL 33321
 TEL. (800) 432-8132 FAX. (954) 724-9293

no	date	description
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B	11.08.05	EDGE DIST. ADD. ALLOY REV.
C	12.02.05	NO CHANGE THIS SHEET

date: 07-06-00
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
00-13
 sheet 2 of 8



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0902.01
 Expiration Date 03/19/11
 By: *M. Khalil*
 Miami Dade Product Control
 Division

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538
 DEC 05 2005



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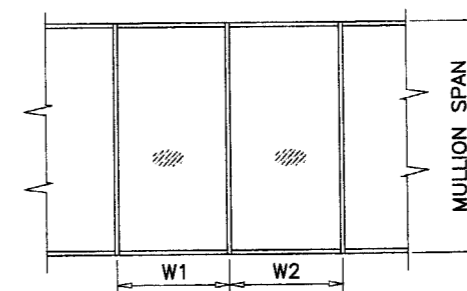
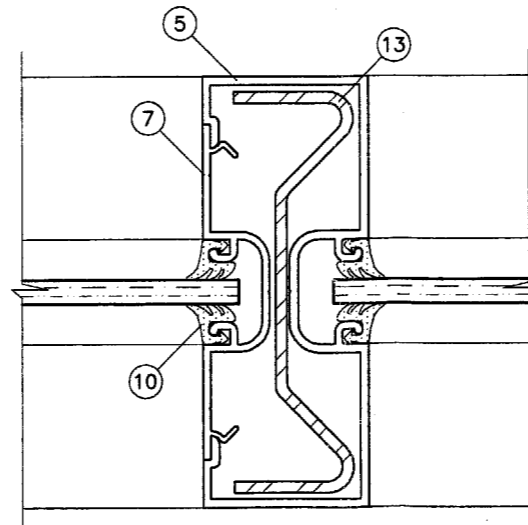
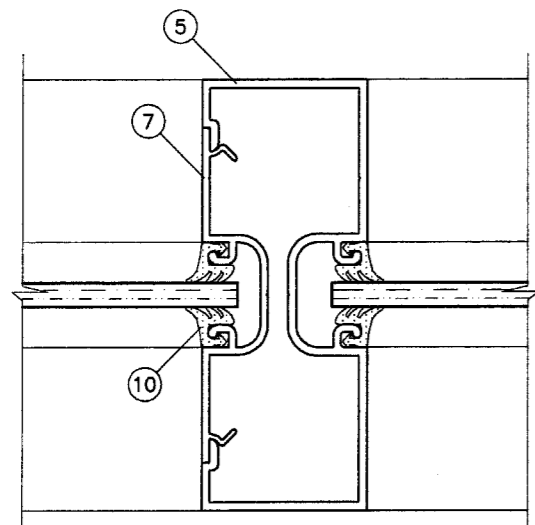
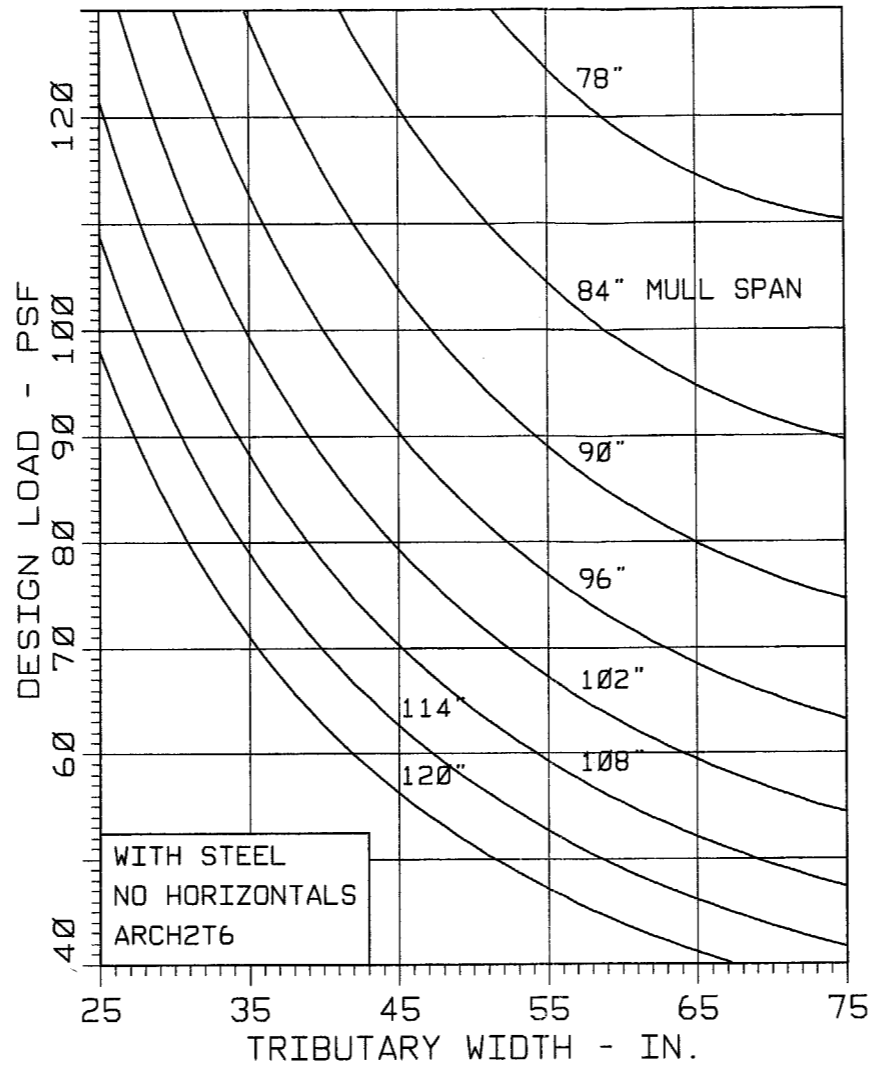
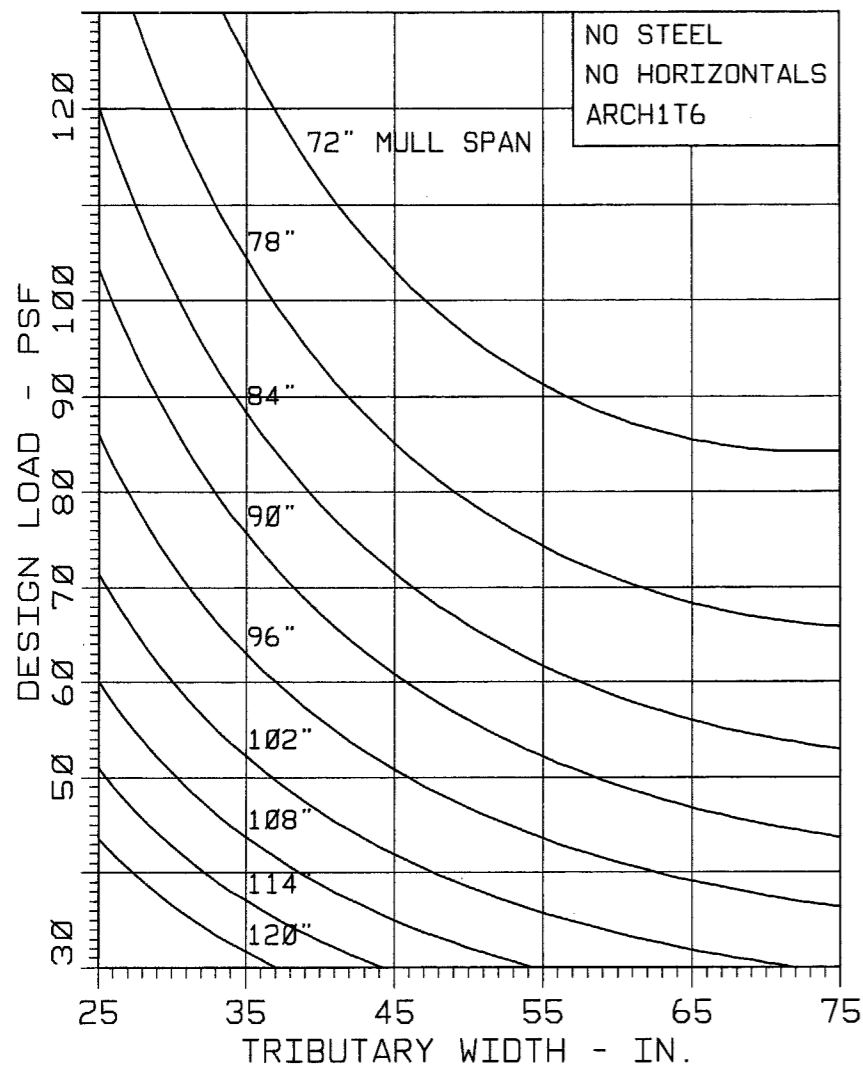
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no	date	by	description
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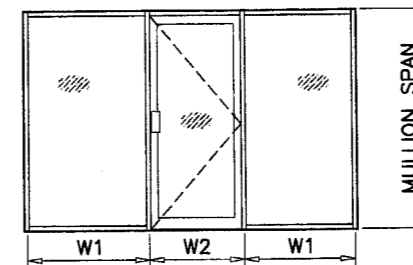
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 chk. by:
 drawing no.
00-13
 sheet 3 of 8

STORE\00-13AAC

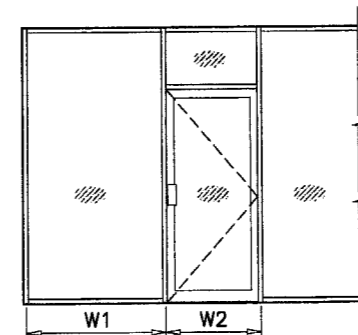
MULLION LOAD CHARTS FOR MULLS WITHOUT INTERMEDIATE HORIZONTALS



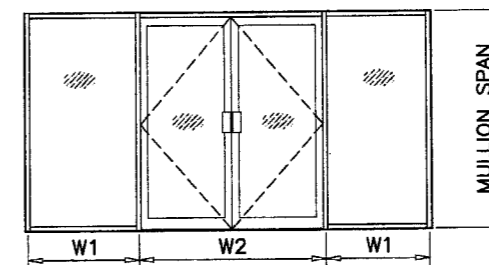
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$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$



$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$



$$\text{TRIBUTARY WIDTH} = \frac{W1}{2} + \frac{W2}{4}$$

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as complying with the Florida
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Acceptance No. 05-0902.01
Expiration Date 03/1/2011
By: *[Signature]*
Miami Dade Product Control
Division

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

[Signature]
DEC 05 2005

afc

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

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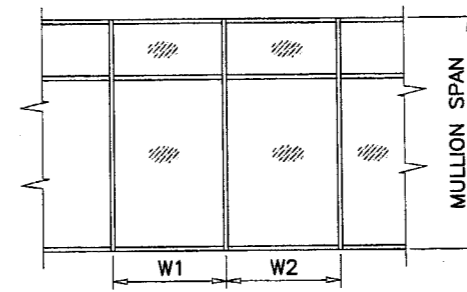
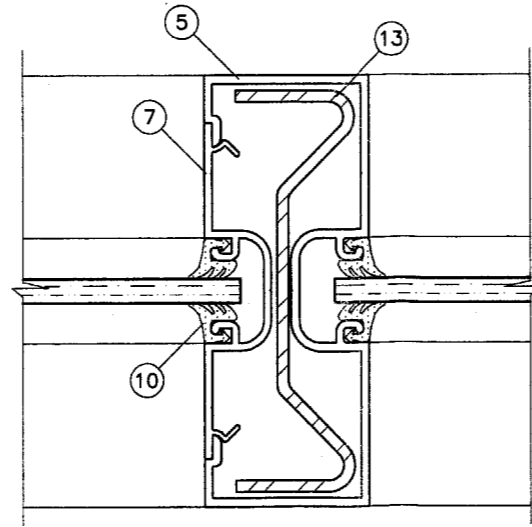
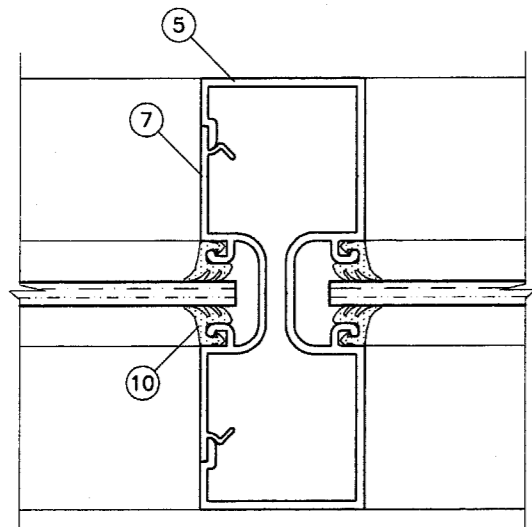
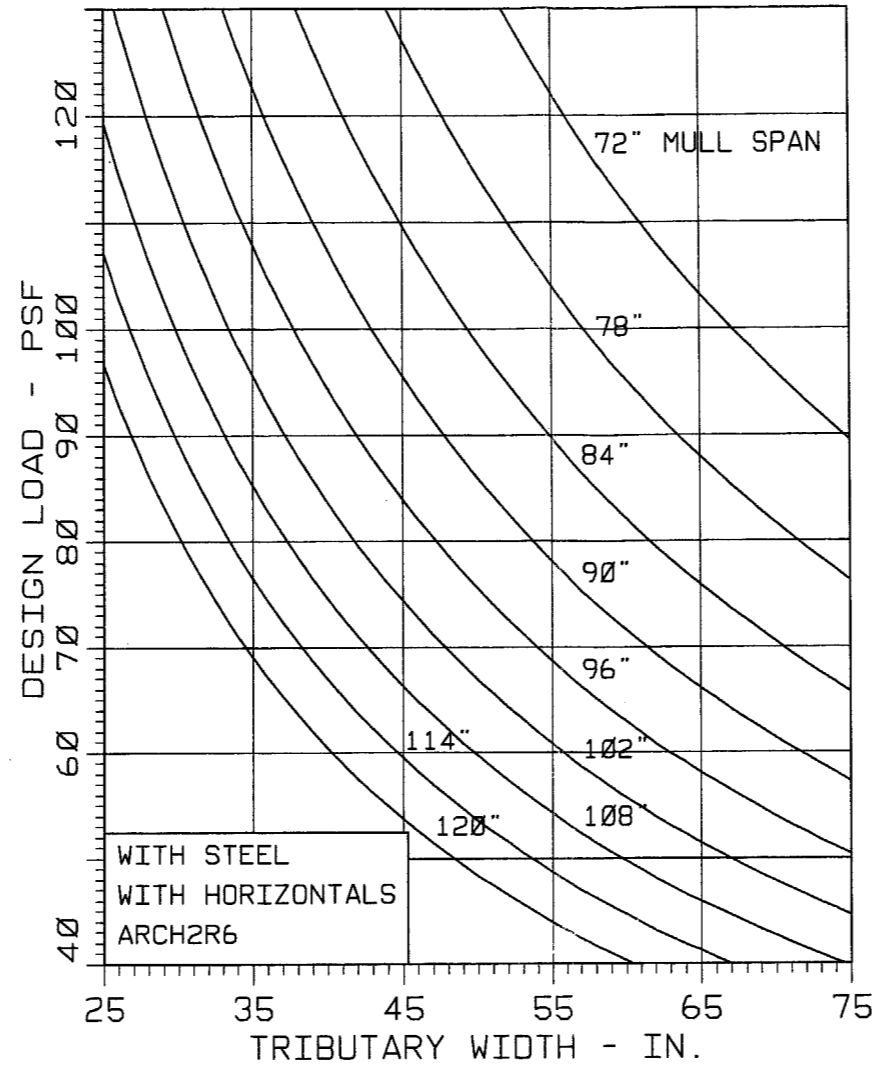
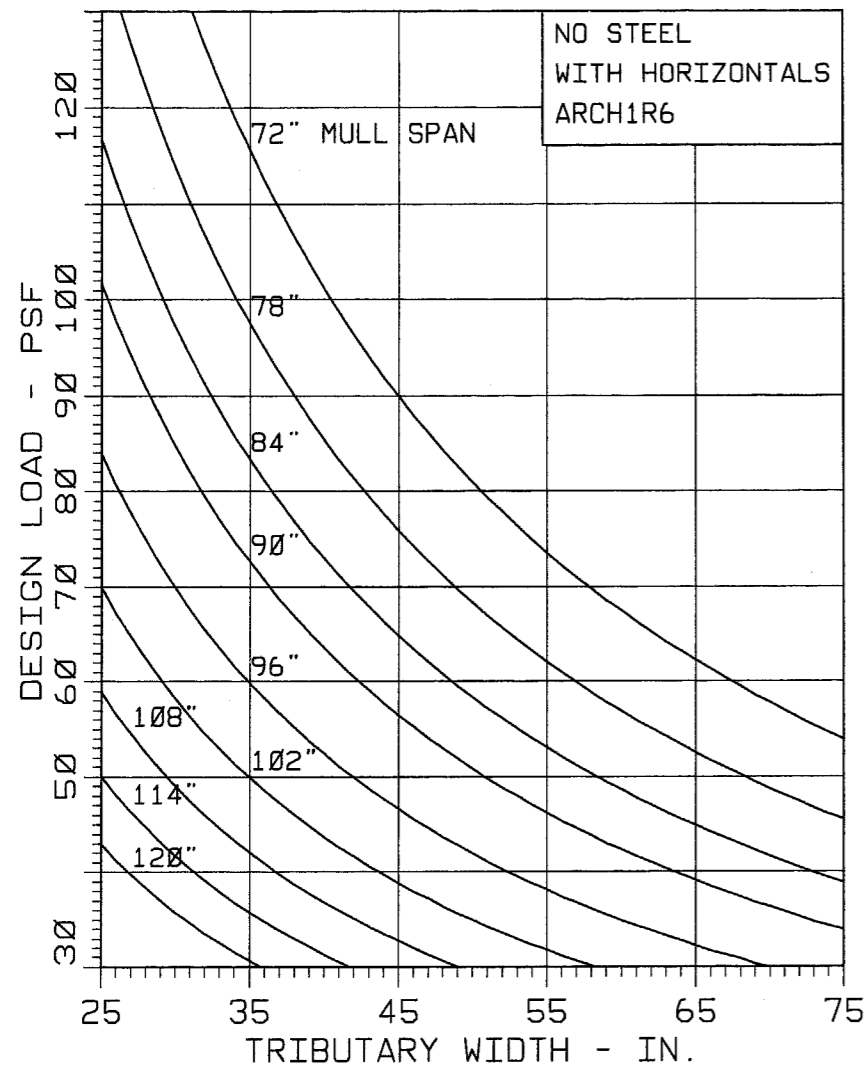
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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

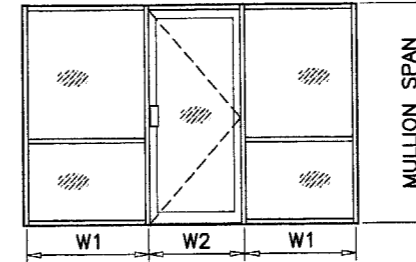
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00-13
sheet 4 of 8

STORE\00-13AAC

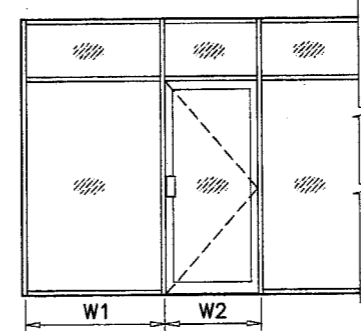
MULLION LOAD CHARTS FOR MULLS WITH INTERMEDIATE HORIZONTALS



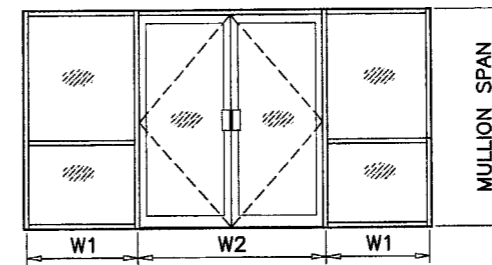
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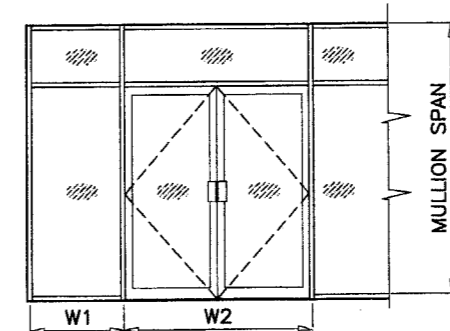
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$$\text{TRIBUTARY WIDTH} = \frac{W1}{2} + \frac{W2}{4}$$



$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

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 By *[Signature]*
 Miami Dade Product Control
 Division

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

[Signature]
 DEC 05 2009

afc

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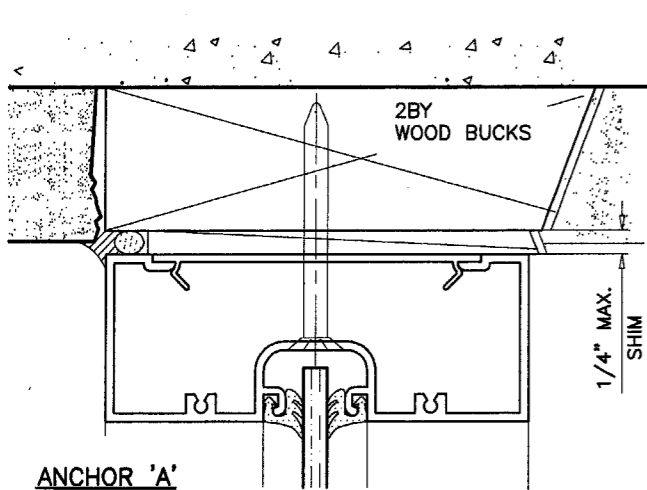
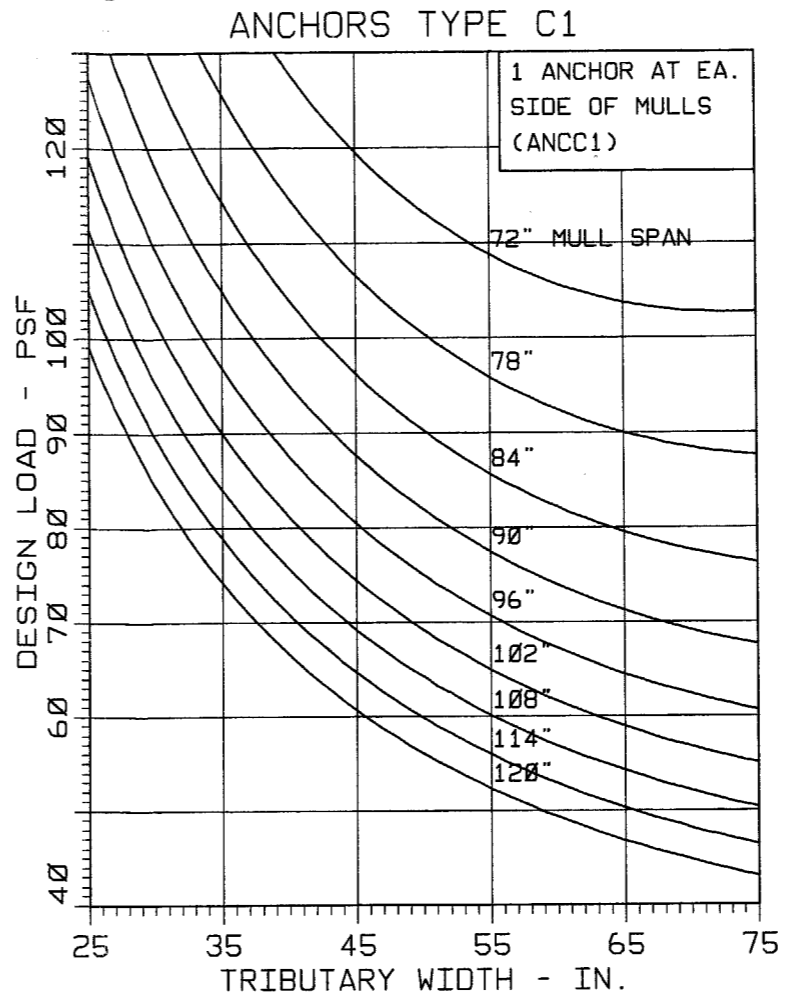
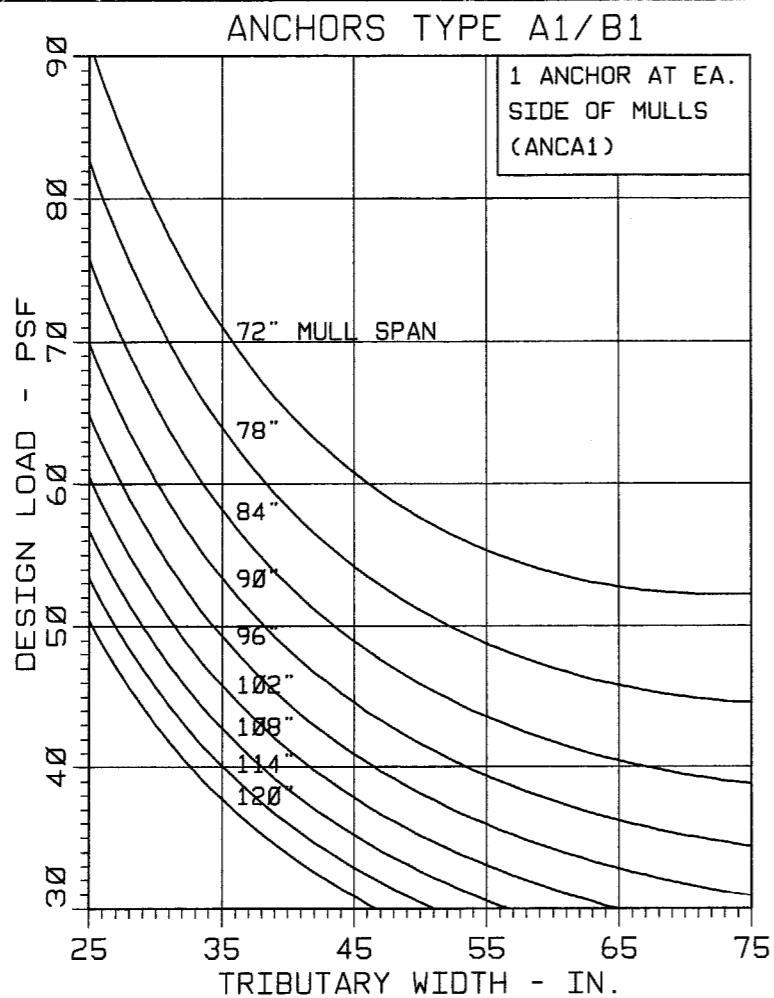
SERIES 4500 ALUM FLUSH GLAZE STOREFRONT SYS.
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 TEL. (800) 432-8132 FAX. (954) 724-9293

no	date	description
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B	11.08.05	PART NO. ADDED
C	12.02.05	NO CHANGE THIS SHEET

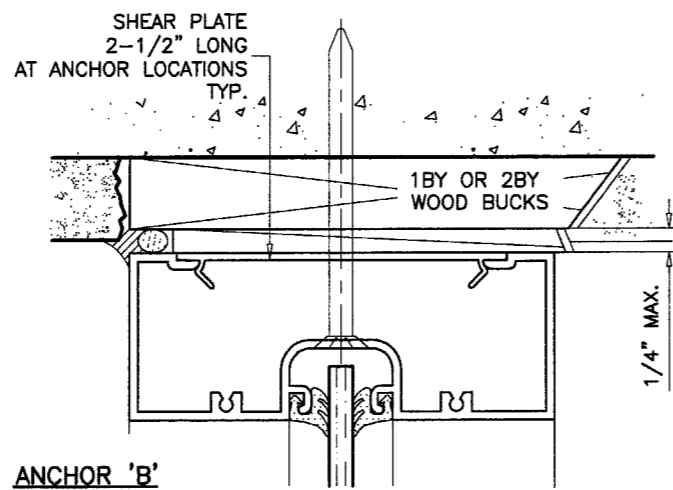
date: 07-06-00
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
00-13
 sheet 5 of 8

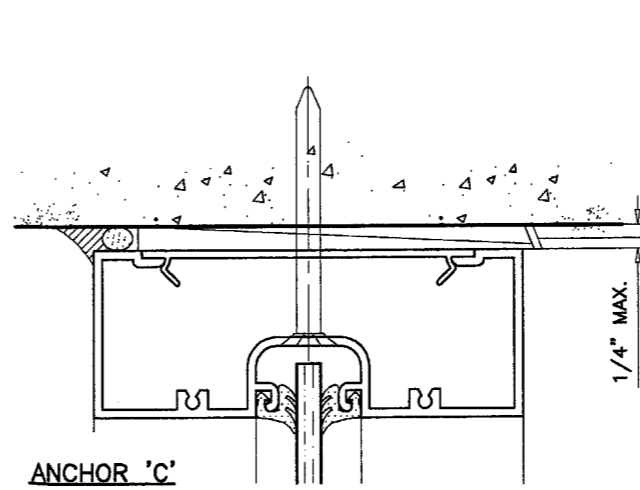
STORE 00-13AAC



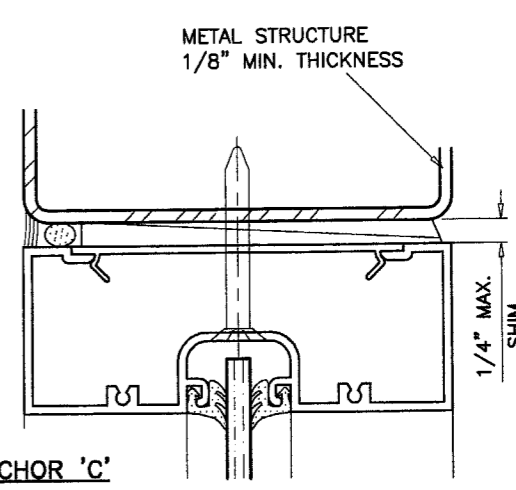
ANCHOR 'A'
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-3/8" MIN. PENETRATION INTO WOOD



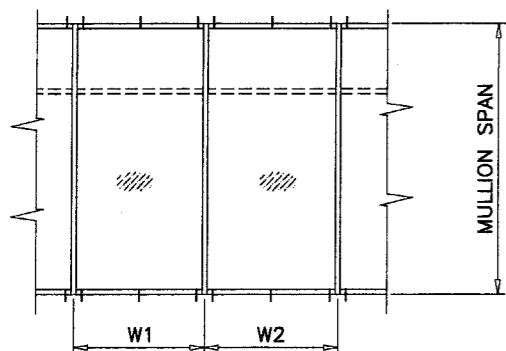
ANCHOR 'B'
 THRU WOOD BUCKS INTO MASONRY
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-1/4" MIN. EMBED INTO MASONRY



ANCHOR 'C'
 DIRECTLY INTO MASONRY
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-1/4" MIN. EMBED INTO MASONRY



ANCHOR 'C'
 INTO METAL STRUCTURES
 # 14 SMS OR 1/4" SELF DRILLING SCREWS
 STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 6063-T5 MIN.



TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$ (SEE DIAGRAMS ON SHEETS 4 & 5 FOR MORE OPTIONS)

ABOVE GRAPHS ARE FOR ONE ANCHOR AT EACH SIDE OF MULLIONS AND A TYPICAL SPACING OF 15" O.C.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0902.01
 Expiration Date 03/19/11

By: *[Signature]*
 Miami Dade Product Control
 Division

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

[Signature]
 DEC 05 2005

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE\00-13AAC

SERIES 4500 ALUM FLUSH GLAZE STOREFRONT SYS.

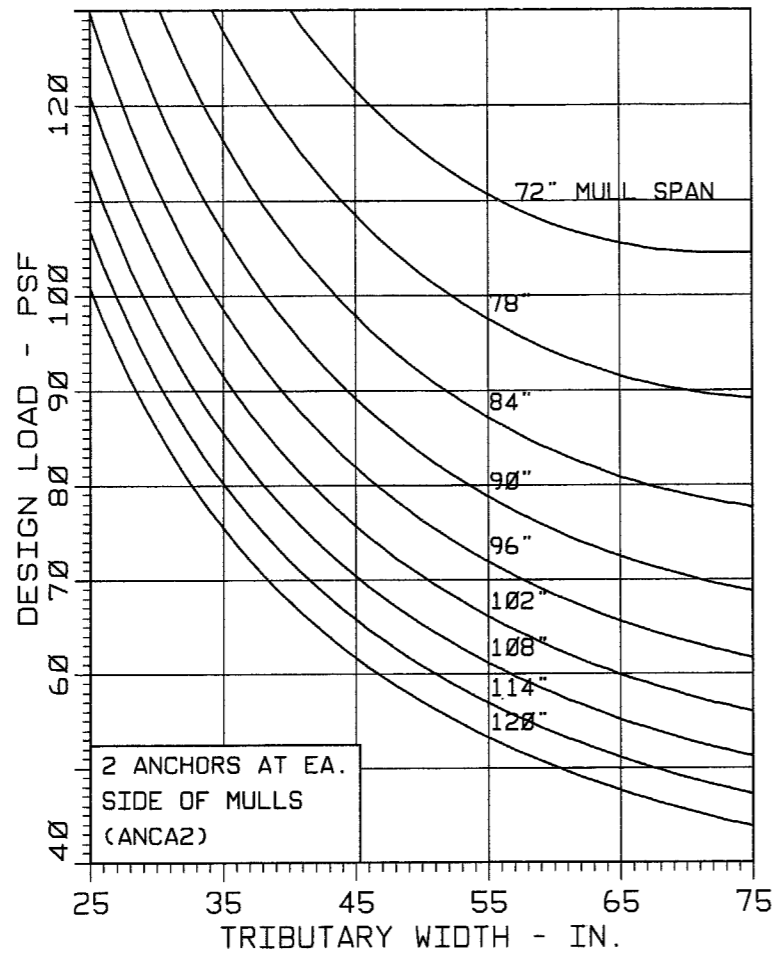
ARCH ALUMINUM & GLASS CO.
 10200 NORTHWEST 67TH STREET
 TAMARAC, FL 33321
 TEL. (800) 432-8132 FAX. (954) 724-9293

no	date	by	description
A	08.24.05	GRAPHS REV.	
B	11.08.05	NO CHANGE THIS SHEET	
C	12.02.05	REV. PER BCCO COMMENTS	

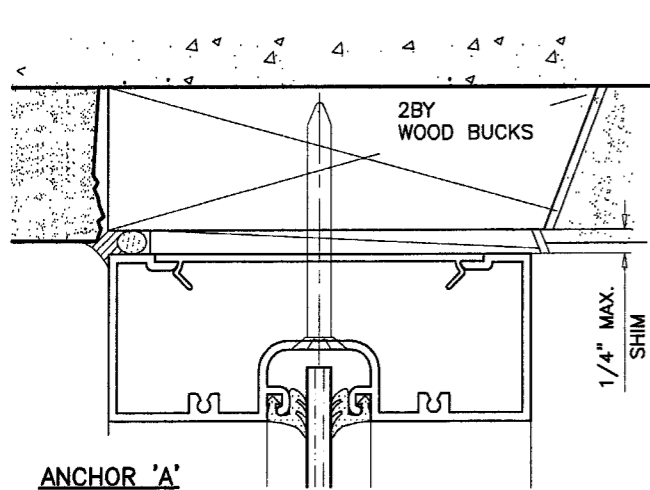
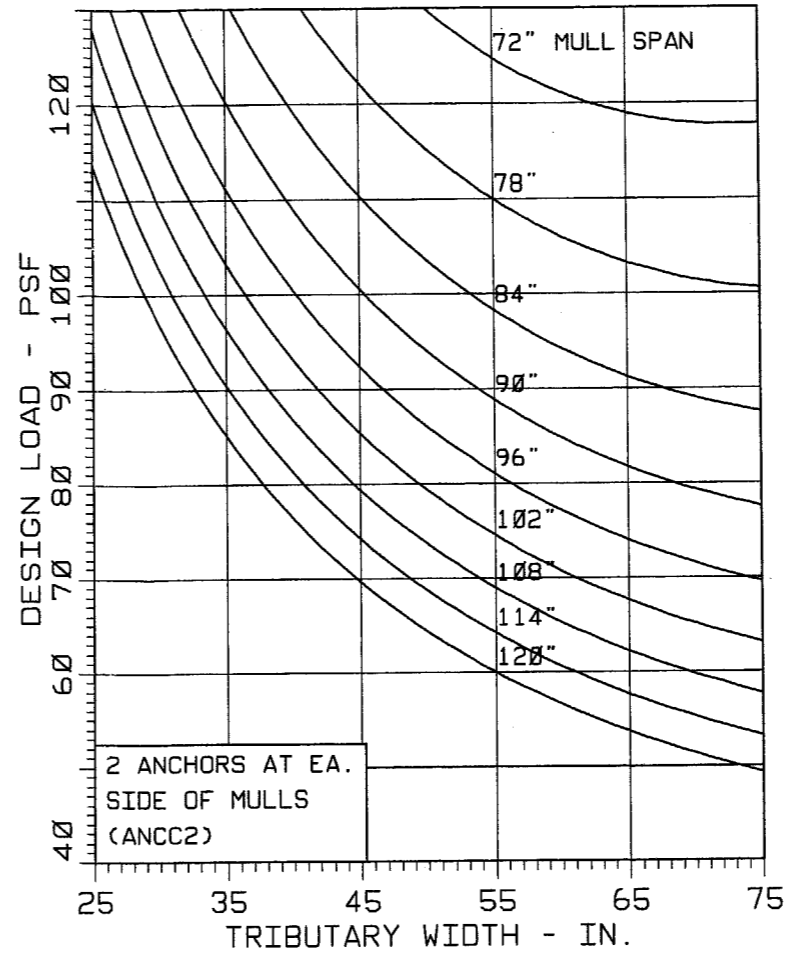
date: 07-06-00	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
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drawing no.
00-13
sheet 6 of 8

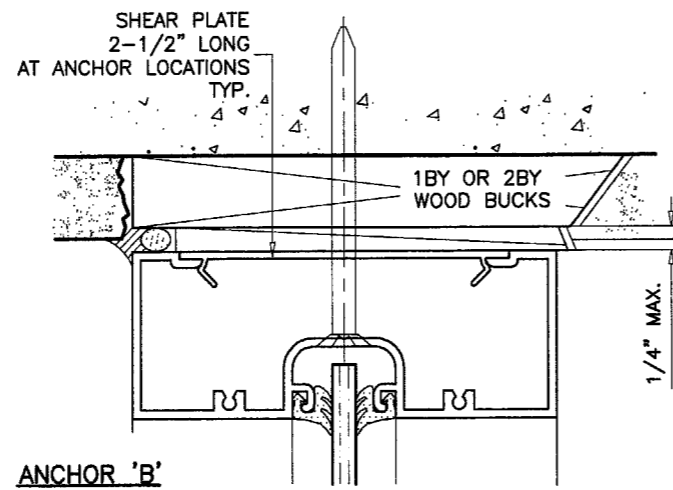
ANCHORS TYPE A2/B2



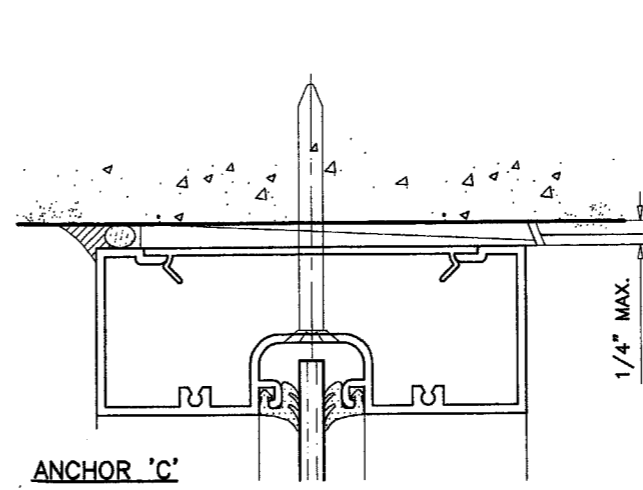
ANCHORS TYPE C2



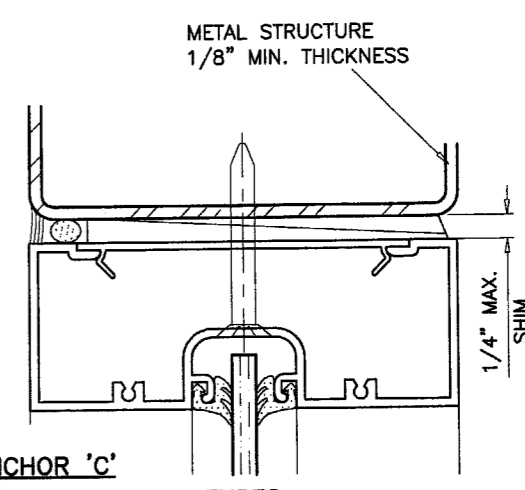
ANCHOR 'A'
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-3/8" MIN. PENETRATION INTO WOOD



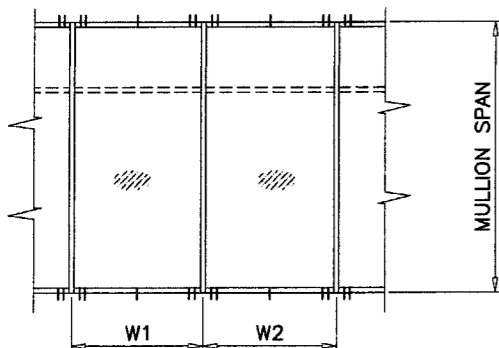
ANCHOR 'B'
 THRU WOOD BUCKS INTO MASONRY
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-1/4" MIN. EMBED INTO MASONRY



ANCHOR 'C'
 DIRECTLY INTO MASONRY
 1/4" TAPCONS (ELCO OR EQUIV.)
 WITH 1-1/4" MIN. EMBED INTO MASONRY



ANCHOR 'C'
 INTO METAL STRUCTURES
 # 14 SMS OR 1/4" SELF DRILLING SCREWS
 STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 6063-T5 MIN.



TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$ (SEE DIAGRAMS ON SHEETS 4 & 5 FOR MORE OPTIONS)

ABOVE GRAPHS ARE FOR TWO ANCHORS AT EACH SIDE OF MULLIONS AND A TYPICAL SPACING OF 15" O.C.

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0902.01
 Expiration Date 03/19/11
 By *M. Shale*
 Miami Dade Product Control
 Division

Engr: DR. HUMAYOON FAROOQ
 STRUCTURES
 F.I.A. PE # 19557
 C.A.N. 3538

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 DEC 05 2009

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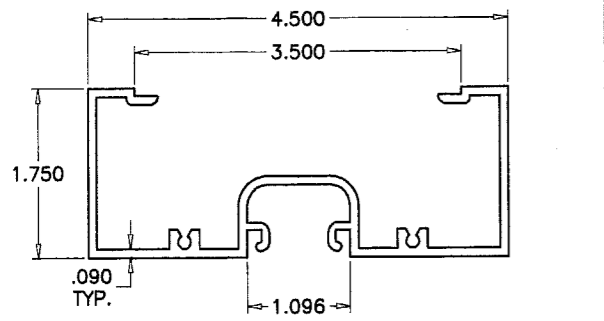
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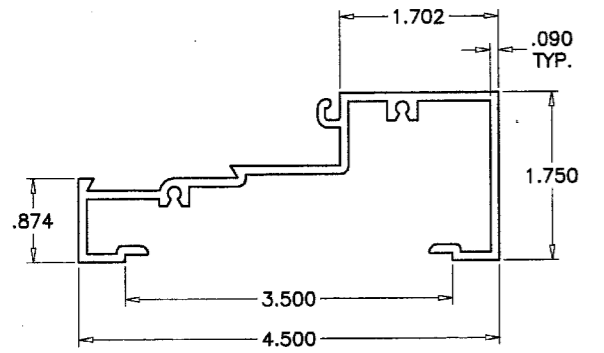
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 chik. by:
 drawing no.
00-13
 sheet 7 of 8

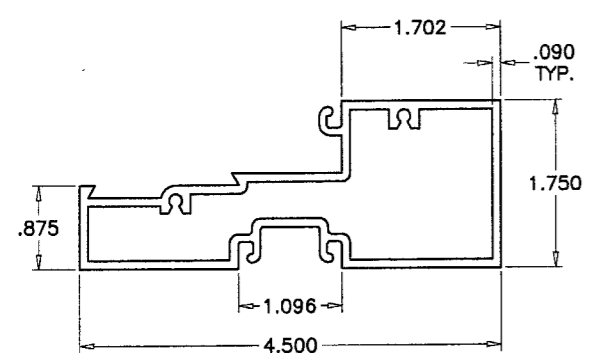
STORE\00-13AAC



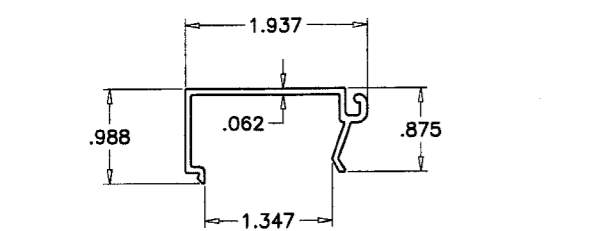
FRAME HEAD/MULLION



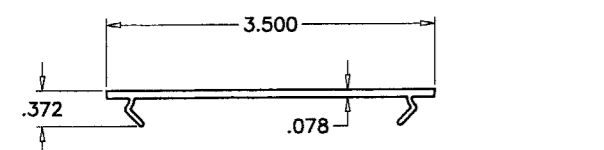
FRAME HORIZONTAL/SILL



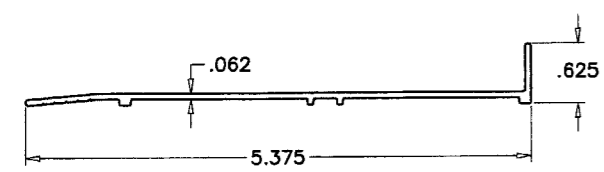
FRAME HORIZONTAL



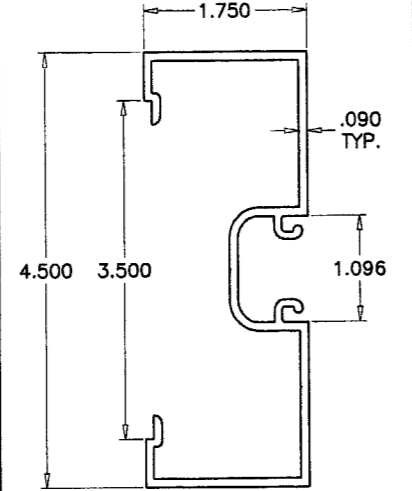
GLAZING STOP



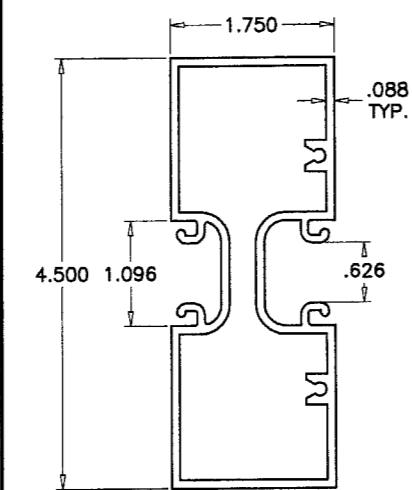
SNAP IN COVER



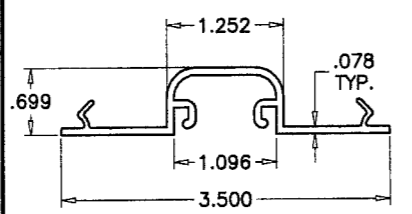
SILL FLASHING (OPTIONAL)



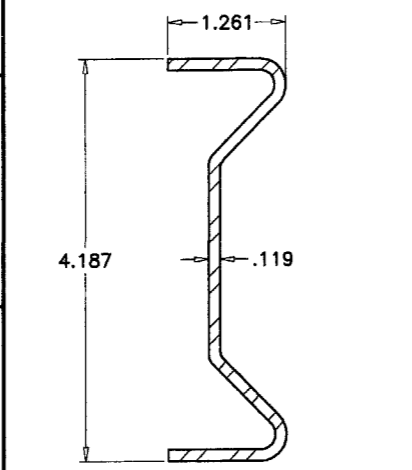
FRAME JAMB



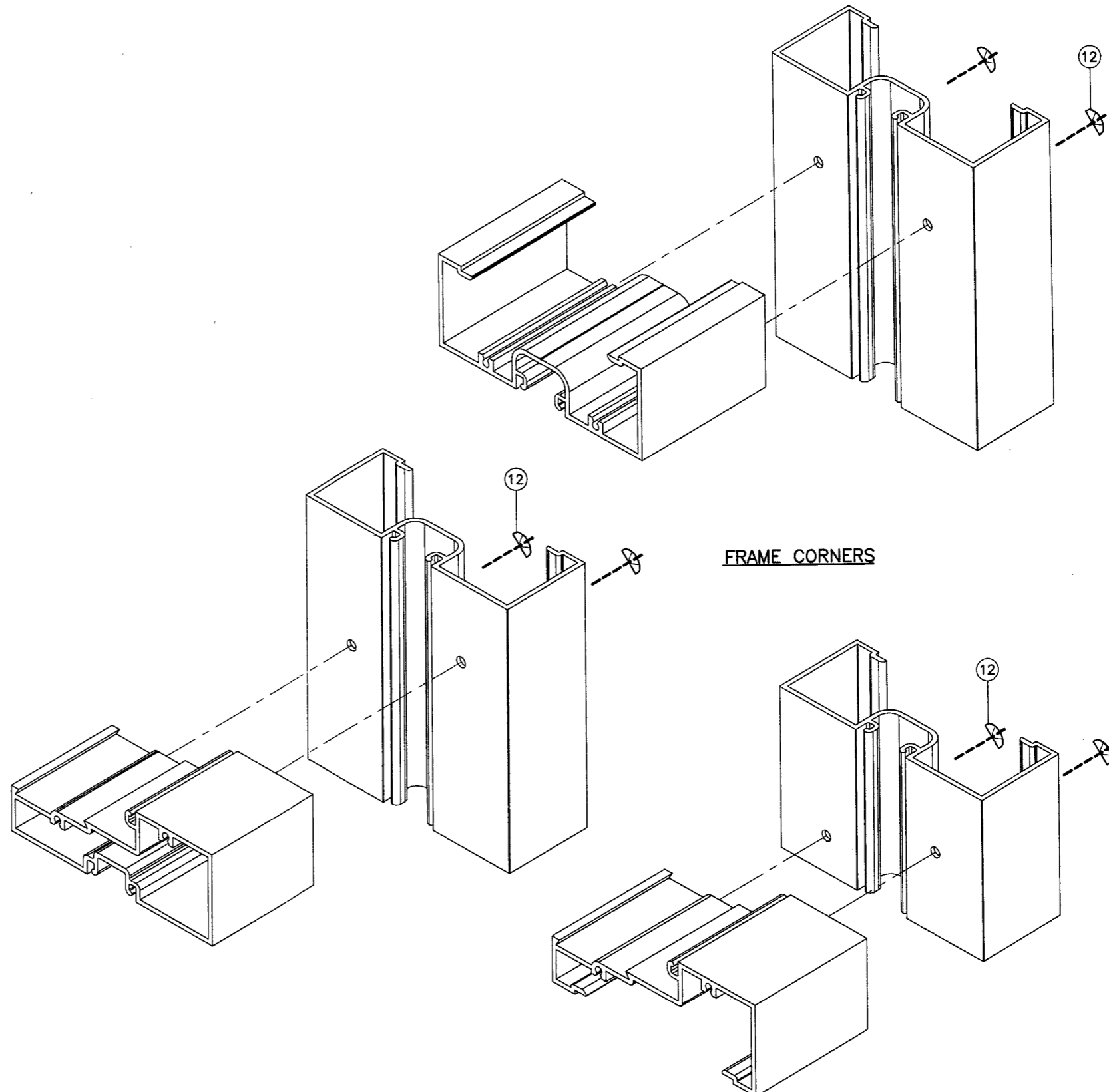
MULLION



POCKET FILLER



STEEL REINFORCING
36 KSI MIN.



FRAME CORNERS

PRODUCT RENEWED
as complying with the Florida
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Acceptance No 05-0902-01
Expiration Date 03/19/11
By M. H. H.
Miami Dade Product Control
Division

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

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dr. by: HAMID
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sheet 8 of 8

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