



**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)**

**Glass Tech Engineering, Inc.  
8469 NW 70 Street  
Miami, FL 33166**

**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 2045 IG Aluminum Window Wall System**

**APPROVAL DOCUMENT:** Drawing No. 99-11, dated 04/04/99 with revision A dated 07/05/02, titled "Series-2045 IG Alum. Window Wall System", Sheets 1 through 5, prepared by Al-Farooq Corporation, signed and sealed by 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: 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 and renews** NOA # 99-0204.05 and consists of this page 1 as well as approval document mentioned above.

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



**NOA No 02-0328.02  
Expiration Date: April 11, 2007  
Approval Date: February 6, 2003  
Page 1**

**Glass Tech Engineering, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

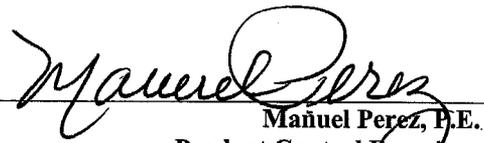
(For File ONLY. Not part of NOA)

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **99-11**, dated 04/04/99 with revision A dated on 07/05/02, titled "Series-2045 IG Alum. Window Wall System", Sheets 1 through 5 of 5, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test reports on
  - 1) Air Infiltration Test, per PA 202-94:
  - 2) Uniform Load Static Air Pressure Test, per PA 202-94.
  - 3) Water Resistance Test, per PA 202-94.along with marked-up drawings and installation diagram of 1 specimen of a series 2045 aluminum window wall system with ¼" tempered glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3365**, dated February 15, 2002, signed and sealed by Luis A. Figueredo, P.E.
2. Test reports on
  - 1) Air Infiltration Test, per PA 202-94:
  - 2) Uniform Load Static Air Pressure Test, per PA 202-94.
  - 3) Water Resistance Test, per PA 202-94.of aluminum fixed window wall, prepared by Fenestration Testing Laboratory Inc., Test Report No. **FTL-1250** dated July 21, 1995, signed and sealed by Yamil G. Kuri, P.E. (*Submitted under previous approval 99-0204.05*)
3. Test report on:
  - 1.) Small Missile Impact Test, per PA 201-94,
  - 2.) Cyclic Wind Load Test, per PA 203-94
  - 3.) Air Infiltration Test, per PA 202-94,
  - 4.) Uniform Static Air Pressure Test, Loading per PA 202-94 and
  - 5.) Water Resistance Test, per PA 202-94along with installation diagram of a fixed window wall system w/steel reinforced mullion, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-1251** dated July 21, 1995, signed and sealed by Yamil G. Kuri, P.E. (*Submitted under previous approval 99-0204.05*)
4. Test Report on:
  - 1.) Small Missile Impact Test, per PA 201-94,
  - 2.) Cyclic Wind Load Test, per PA 203-94along with installation diagram of a fixed window wall system, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-1252** dated August 11, 1995, signed and sealed by Yamil G. Kuri, P.E. (*Submitted under previous approval 99-0204.05*)

  
Mañuel Perez, P.E.

Product Control Examiner  
NOA No 02-0328.02

Expiration Date: April 11, 2007

Approval Date: February 6, 2003

**Glass Tech Engineering, Inc.**

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(For File ONLY. Not part of NOA)

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, dated 7/27/02, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**D. MATERIAL CERTIFICATIONS**

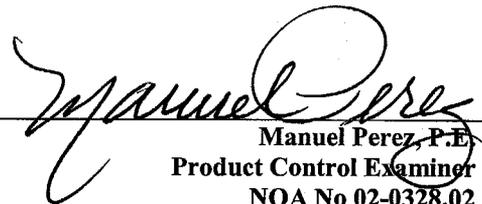
1. None.

**E. STATEMENTS**

1. Statement letter of conformance, dated August 14, 2002, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated August 14, 2002, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report No. **FTL- 3358**, issued by Fenestration Testing Laboratory, Inc., dated February 22, 2002, signed and sealed by Luis A. Figueredo, P.E.
4. Laboratory compliance letter for Test Report No. **FTL- 3370**, issued by Fenestration Testing Laboratory, Inc., dated February 22, 2002, signed and sealed by Luis A. Figueredo, P.E.

**F. OTHER**

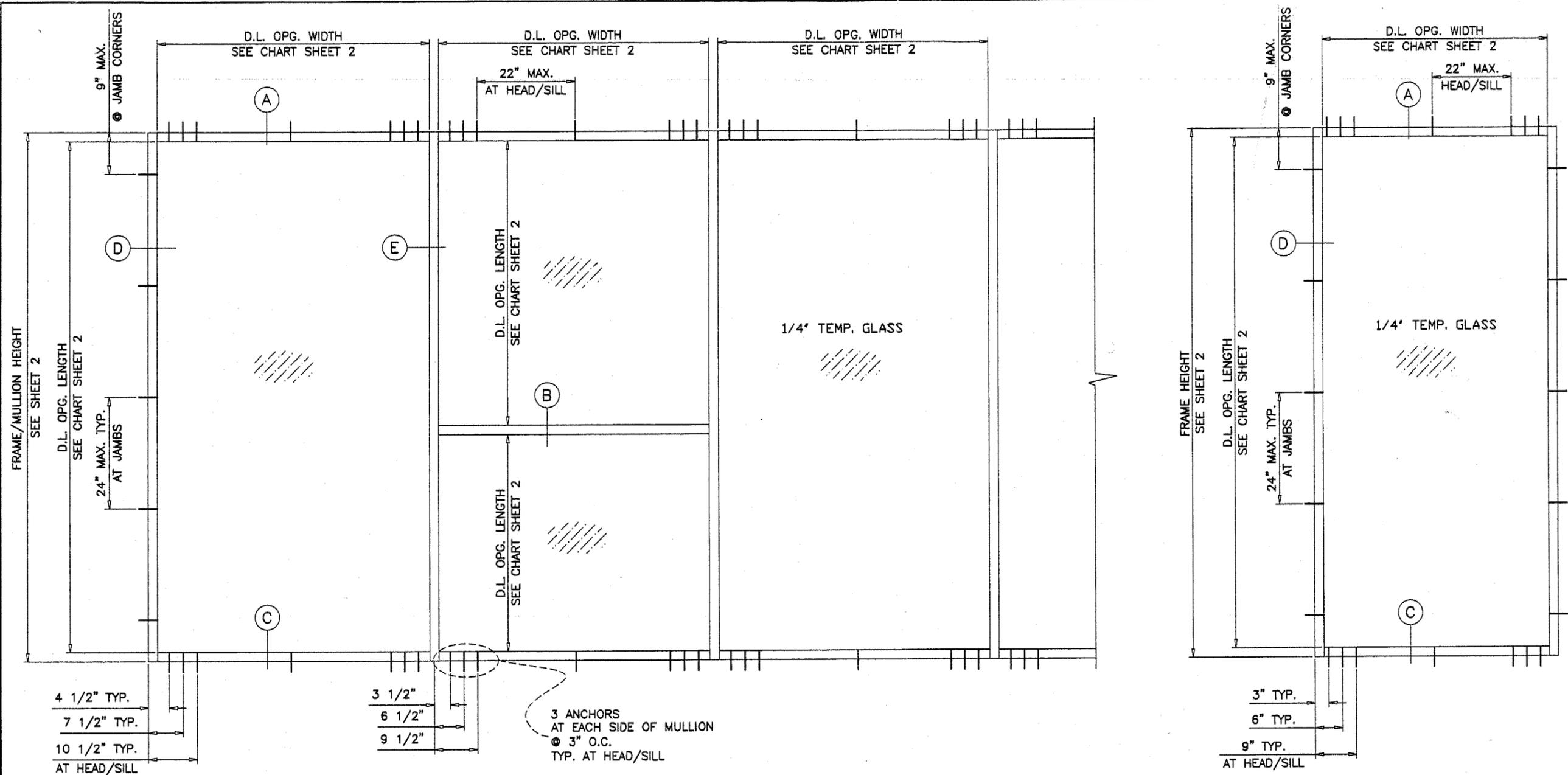
1. Notice of Acceptance No. **99-0204.04**, issued to Glass Tech Engineering, Inc. for their Series 2045 IG Aluminum Window Wall System – Small Missile Impact Resistant, approved on 05/20/99 and expiring on 04/11/02.



Manuel Perez, P.E.  
Product Control Examiner  
NOA No 02-0328.02

Expiration Date: April 11, 2007

Approval Date: February 6, 2003



TYPICAL ELEVATIONS

**SERIES-2045 IG ALUMINUM WINDOW WALL SYSTEM**

STOREFRONT SYSTEM IS NOT RATED FOR IMPACT.  
 MIAMI DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED.  
 SEE MULLION CHART TO DETERMINE DESIGN LOAD CAPACITY OF MULLIONS.  
 SEE GLASS CHART AT SHEET 2 TO DETERMINE DESIGN LOAD CAPACITY OF GLASS.  
 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.

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.

Engr: DR. HUMAYOUN FARCOQ  
 STRUCTURES  
 FLA. PE # 16357  
 AUG 29 2002

Approved as complying with the  
 Florida Building Code  
 Date FEB 6, 2003  
 NOA# 02-0328.02  
 Miami Dade Product Control  
 Division  
 By *Manuel Perez*

**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE 99-11GTE

**SERIES-2045 IG ALUM. WINDOW WALL SYSTEM**

**GLASSTECH ENGINEERING INC.**  
 8465 N.W. 70TH STREET  
 MIAMI, FL. 33166  
 TEL. (305) 594-4321 FAX. (305) 599-2730

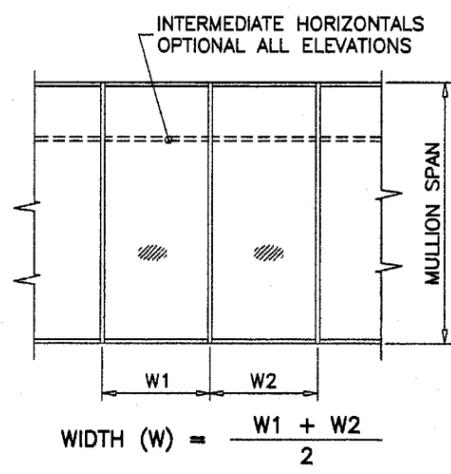
no	date	by	description
A	07.05.02		GENERAL REVISION

date: 04-04-99  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**99-11**  
 sheet 1 of 5

MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.		MULLION		
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	
36"	96"	100.0	130.3	
39"		100.0	120.3	
42"		100.0	111.7	
45"		97.6	104.3	
48"		91.5	97.7	
51"		86.1	92.0	
54"		81.3	86.9	
57"		77.0	82.3	
60"		73.2	78.2	
63"		69.7	74.5	
66"		66.5	71.1	
69"		63.6	68.0	
72"		61.0	65.2	
36"		102"	100.0	122.7
39"	100.0		113.2	
42"	98.4		105.1	
45"	91.8		98.1	
48"	86.1		92.0	
51"	81.0		86.6	
54"	76.5		81.8	
57"	72.5		77.5	
60"	68.9		73.6	
63"	65.6		70.1	
66"	62.6		66.9	
69"	59.9		64.0	
36"	108"		100.0	115.9
39"			100.0	106.9
42"		92.9	99.3	
45"		86.7	92.7	
48"		81.3	86.9	
51"		76.5	81.8	
54"		72.3	77.2	
57"		68.5	73.2	
60"		65.1	69.5	
63"		62.0	66.2	
36"		114"	100.0	109.8
39"			94.8	101.3
42"			88.0	94.1
45"			82.2	87.8
48"	77.0		82.3	
51"	72.5		77.5	
54"	68.5		73.2	
57"	64.9		69.3	
60"	61.6		65.9	
36"	120"		88.1	94.1
39"			81.3	86.9
42"			75.5	80.7
45"			70.5	75.3
48"			66.0	70.6
51"		62.2	66.4	
54"		58.7	62.7	
57"		55.6	59.4	

MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.		MULLION		
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	
36"	126"	76.1	81.3	
39"		70.2	75.0	
42"		65.2	69.7	
45"		60.9	65.0	
48"		57.1	61.0	
51"		53.7	57.4	
54"		50.7	54.2	
36"		132"	66.2	70.7
39"	61.1		65.3	
42"	56.7		60.6	
45"	52.9		56.6	
48"	49.6		53.0	
51"	46.7		49.9	
36"	138"		57.9	61.9
39"			53.4	57.1
42"		49.6	53.0	
45"		46.3	49.5	
48"		43.4	46.4	
51"		40.9	43.7	
36"		144"	51.0	54.5
39"			47.0	50.3
42"	43.7		46.7	
45"	40.8		43.6	
48"	38.2		40.8	



**MULLION CAPACITY CHARTS**

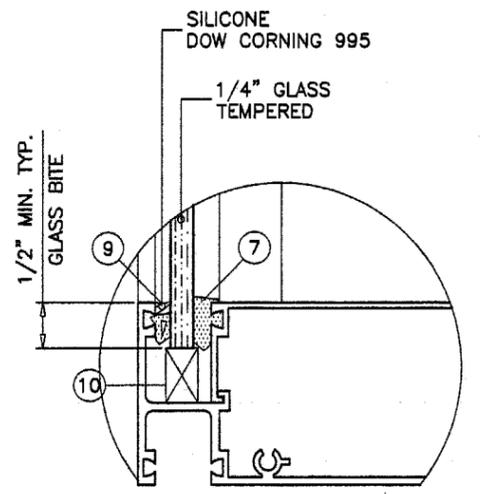
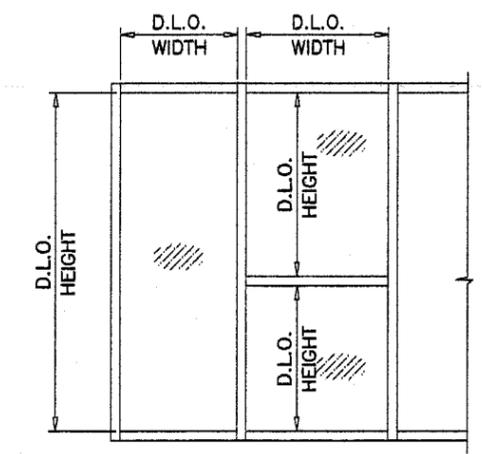
TO VERIFY GLASS CAPACITY SEE GLASS CHART.

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		1/4" TEMP. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) & INT.(-)	
32"	92"	134.8	
35"		120.8	
38"		110.0	
41"		106.8	
44"		105.6	
47"		103.2	
50"		100.8	
53"		98.8	
56"		96.0	
59"		94.4	
62"		94.0	
65"		90.8	
68"		87.6	
32"		98"	130.8
35"			113.2
38"			102.4
41"	96.4		
44"	91.6		
47"	89.2		
50"	89.1		
53"	89.0		
56"	88.9		
59"	88.8		
62"	86.4		
65"	84.4		
32"	104"		124.8
35"			106.8
38"			96.8
41"			88.4
44"		87.2	
47"		86.4	
50"		85.6	
53"		84.8	
56"		84.0	
59"		83.2	
62"		81.6	
32"		110"	119.6
35"			104.8
38"			91.6
41"			84.8
44"			79.2
47"	79.1		
50"	79.0		
53"	79.0		
56"	78.9		
59"	78.8		
32"	116"		121.2
35"			100.4
38"			89.6
41"			81.2
44"			76.0
47"			76.0
50"		73.6	
53"		71.6	

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		1/4" TEMP. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) & INT.(-)	
32"	122"	117.6	
35"		97.6	
38"		87.2	
41"		78.0	
44"		73.2	
47"		71.6	
50"		70.0	
53"		68.0	
32"	128"	118.8	
35"		99.6	
38"		84.4	
41"		76.4	
44"		70.0	
47"		66.0	
50"		62.8	
32"		134"	114.8
35"	96.4		
38"	85.6		
41"	74.0		
44"	67.6		
47"	63.2		
32"	140"		112.4
35"			98.4
38"		82.8	
41"		71.6	
44"		65.2	

VALUES SHOWN ABOVE ARE MAXIMUM DAYLITE OPENING DIMS. FOR GLASS. SEE MULLION CHARTS FOR MULLION CAPACITY.

**GLASS CHARTS**



**TYPICAL GLAZING DETAIL**

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557  
AUG 9 2002

Approved as complying with the Florida Building Code  
Date FEB. 6, 2003  
NOA# 02-0328-02  
Miami Dade Product Control  
Division  
By: *Manuel Perez*

*afc*

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE 99-11GTE

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**GLASSTECH ENGINEERING INC.**  
8465 N.W. 70TH STREET  
MIAMI, FL. 33166  
TEL. (305) 594-4321 FAX. (305) 599-2730

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no.	date	by	description
A	07.05.02		GENERAL REVISION

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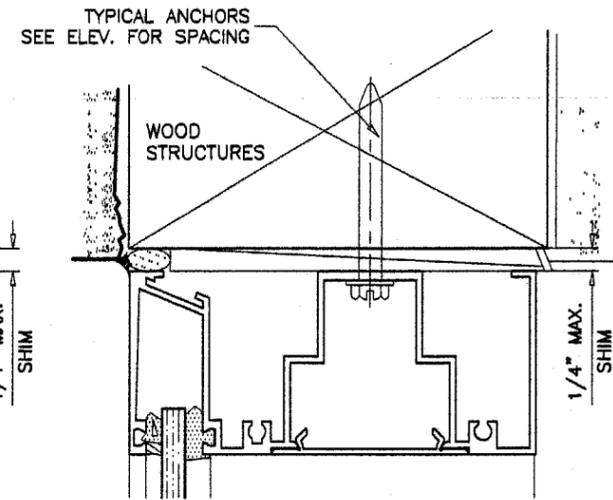
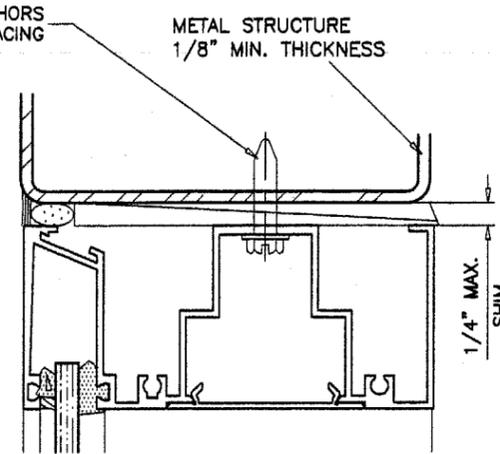
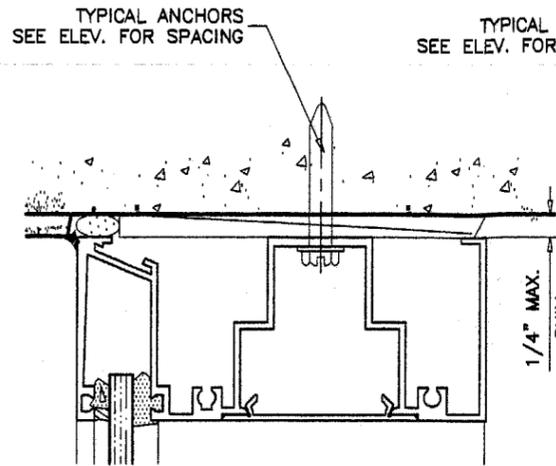
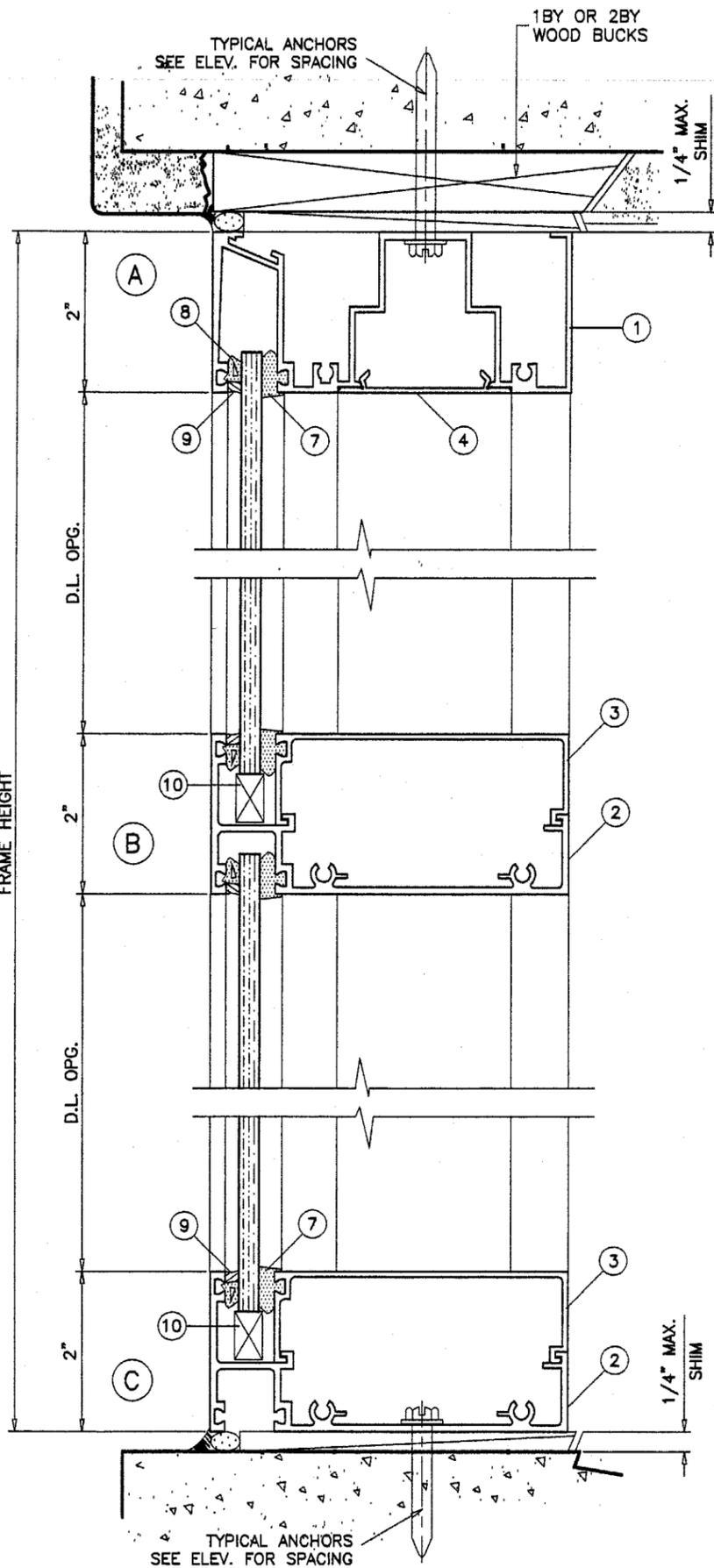
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dr. by: HAMID  
chk. by:

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drawing no. **99-11**  
sheet 2 of 5

EXTERIOR

FRAME HEIGHT



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" TAPCONS

INTO WOOD STRUCTURES

1-3/4" MIN. PENETRATION INTO WOOD

THRU WOOD BUCKS INTO MASONRY OR CONC.

1-1/4" MIN. EMBED INTO MASONRY OR CONC.

DIRECTLY INTO MASONRY OR CONC.

1-1/4" MIN. EMBED INTO MASONRY OR CONC.

#14 SMS OR 1/4" SELF DRILLING SCREWS

INTO METAL STRUCTURES (STEEL OR ALUMINUM 1/8" MIN. THICKNESS)

STEEL : Fy = 36 KSI MIN.

ALUMINUM : 6063-T5 MIN.

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557

*Handwritten:* AUG 29 2007

Approved as complying with the  
Florida Building Code  
Date FEB. 6, 2003  
NOA# 02-0328.02  
Miami Dade Product Control  
Division  
By *Handwritten Signature*



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

SERIES-2045 IG ALUM. WINDOW WALL SYSTEM  
**GLASSTECH ENGINEERING INC.**  
8465 N.W. 70TH STREET  
MIAMI, FL. 33166  
TEL. (305) 594-4321 FAX. (305) 599-2730

revisions:	no	date	by	description

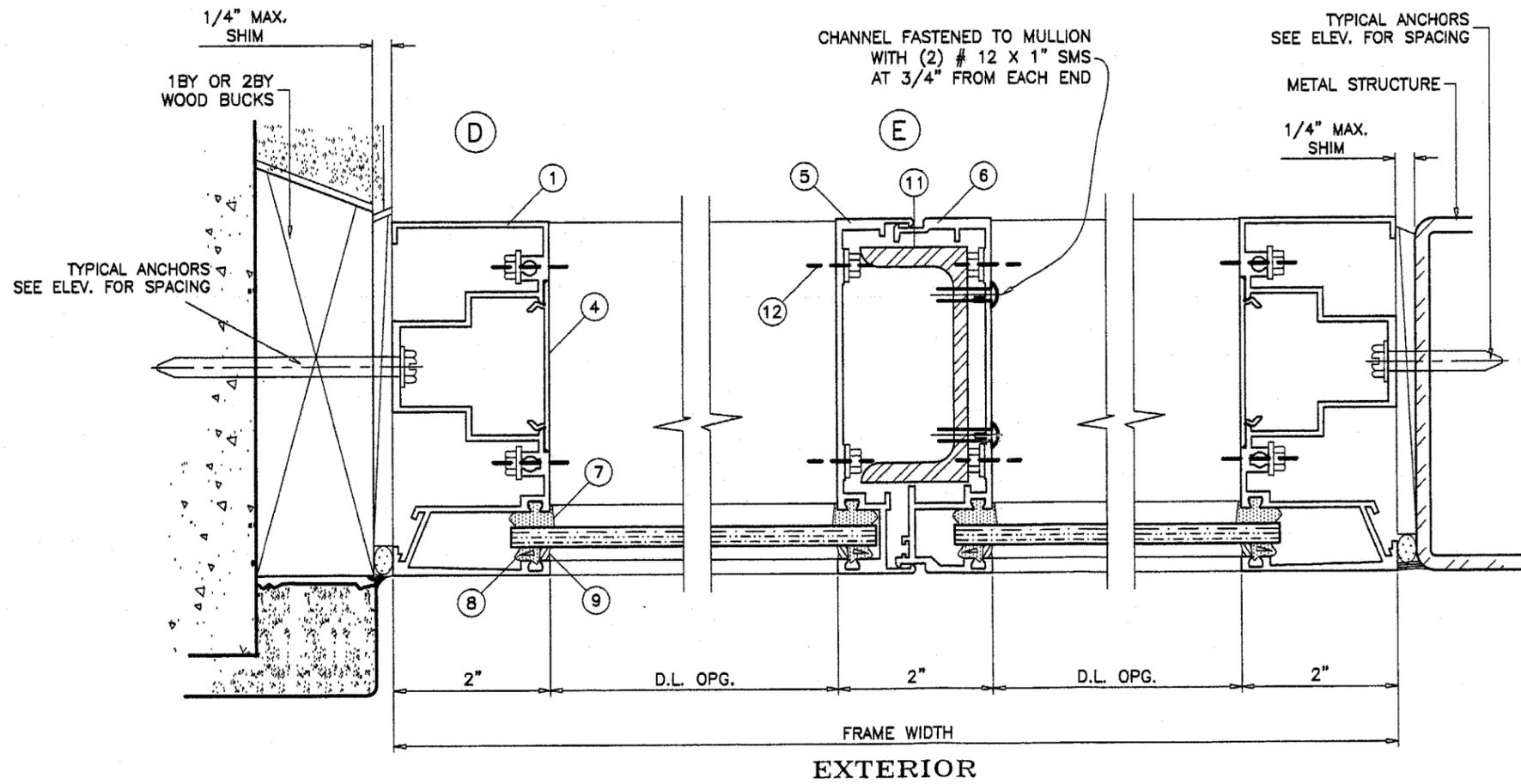
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scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**99-11**

sheet 3 of 5

STORE 99-11GTE

MATERIALS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	367	AS REQD.	FRAME HEAD/JAMB	6063-T6	-
2	368	AS REQD.	FRAME HORIZONTAL/SILL	6063-T6	-
3	369	AS REQD.	GLAZING STOP	6063-T6	-
4	370	AS REQD.	SNAP-IN COVER	6063-T6	-
5	365	AS REQD.	FEMALE MULLION	6063-T6	-
6	366	AS REQD.	MALE MULLION	6063-T6	-
7	TR-1892E	AS REQD.	INT. GLAZING GASKET	-	-
8	TR-427N	AS REQD.	EXT. WEDGE GASKET	NEOPRENE	-
9	995	-	SEALING COMPOUND	SILICONE	DOW CORNING
10	BN0812	AS REQD.	SETTING BLOCK (1/2" X 3/4" X 2" LONG)	-	-
11	C3 X 4.1	1/MULLION	REINFORCING CHANNEL, FULL LENGTH	STEEL	-
12	#12 X 1-1/2" SMS	2/ CORNER	FRAME ASSEMBLY SCREWS	-	-



EXTERIOR

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

**AUG 29 2002**

Approved as complying with the  
Florida Building Code  
Date **FEB. 6, 2003**  
NOA# **02-0328.02**  
Miami Dade Product Control  
Division  
By *Maunel Perez*

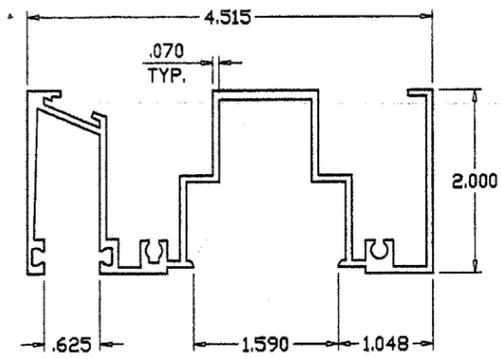
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
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MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX. (305) 262-6978  
STORE 99-11GTE

SERIES-2045 IG ALUM. WINDOW WALL SYSTEM  
**GLASSTECH ENGINEERING INC.**  
8465 N.W. 70TH STREET  
MIAMI, FL. 33166  
TEL. (305) 594-4321 FAX. (305) 599-2730

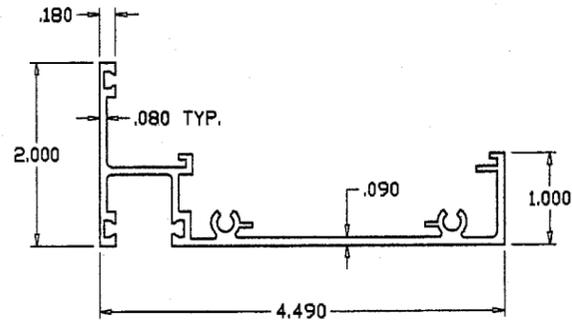
revisions:	no	date	by	description

date: 04-04-99  
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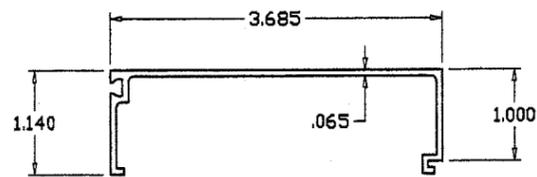
drawing no.  
**99-11**  
sheet 4 of 5



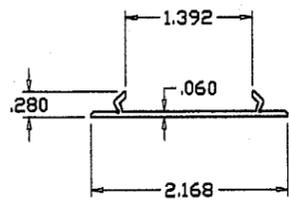
FRAME HEAD/JAMB # 367



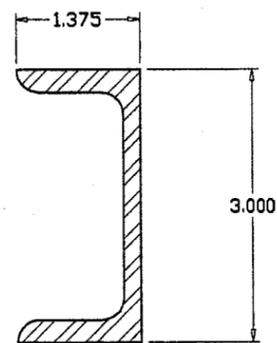
FRAME HORIZONTAL/SILL # 368



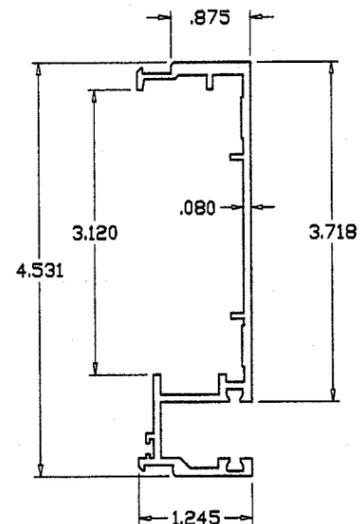
GLAZING STOP # 369



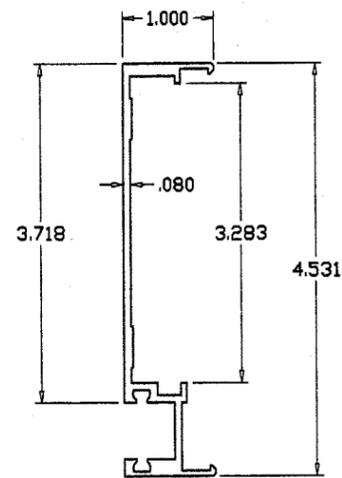
SNAP-IN COVER HEAD/JAMB # 370



MULLION REINFORCING

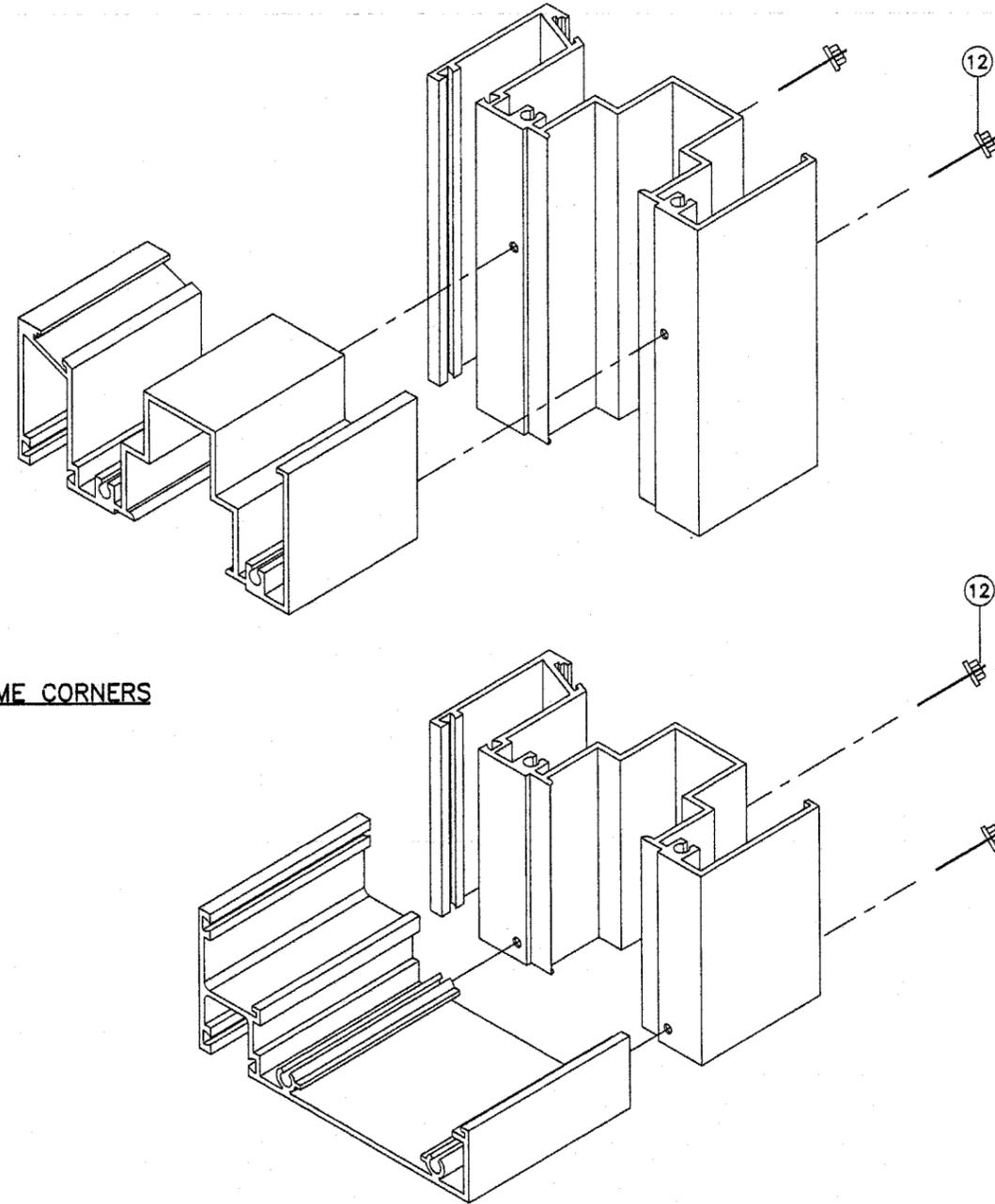


MALE MULLION # 366



FEMALE MULLION # 365

FRAME CORNERS



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

AUG 29 2002

Approved as complying with the  
Florida Building Code  
Date FEB 6 2003  
NOA# 02-0328-02  
Miami Dade Product Control  
Division  
By *Manuel Perez*

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
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TEL. (305) 264-8100 FAX. (305) 262-6978  
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SERIES-2045 IG ALUM. WINDOW WALL SYSTEM  
**GLASSTECH ENGINEERING INC.**  
8465 N.W. 70TH STREET  
MIAMI, FL. 33166  
TEL. (305) 594-4321 FAX. (305) 599-2730

revisions:	
no	description

date: 04-04-99  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**99-11**  
sheet 5 of 5