



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1107**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2902 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)

**Glass Tech Engineering, Inc.**  
**8321 N.W. 70<sup>th</sup> 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 Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "2046A" Aluminum Window Wall System – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W05-17**, titled "Series-2046A Alum Window Wall System (L.M.I.)", sheets 1 through 7 of 7, dated 04/08/05 with revision "A" dated 10/21/09, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 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 and renews NOA No. 09-1109.02** and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
*7/22/10*

**NOA No. 10-0720.12**  
**Expiration Date: August 04, 2015**  
**Approval Date: August 11, 2010**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **W05-17**, titled "Series-2046A Alum Window Wall System (L.M.I.)", sheets 1 through 7 of 7, dated 04/08/05 with revision "A" dated 10/21/09, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.  
*(Submitted under previous NOA No.09 -1109.02)*

**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  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Large Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with installation diagram of an aluminum window wall system, marked-up by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-4537**, dated 03/23/05, signed and sealed by Edmundo Largaespada, P. E.  
*(Submitted under previous NOA No.05 -0620.01)*
2. Test report 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) Small Missile Impact Test per FBC, TAS 201-94  
5) Large Missile Impact Test per FBC, TAS 201-94  
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with installation diagram of an aluminum window wall system, marked-up by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-4535**, dated 03/21/05, signed and sealed by Edmundo Largaespada, P. E.  
*(Submitted under previous NOA No.05 -0620.01)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 10/14/09, signed and sealed by Javad Ahmad, P. E.  
**Complies with ASTM E1300-04**  
*(Submitted under previous NOA No.09 -1109.02)*

**D. QUALITY ASSURANCE**

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



Jaime D. Gascon, P. E.  
Chief, Product Control Division  
NOA No. 10-0720.12  
Expiration Date: August 04, 2015  
Approval Date: August 11, 2010

Glass Tech Engineering, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their “**Vanceva Composites Glass Interlayer**” dated 7/17/08, expiring on 12/11/13.
2. Notice of Acceptance No. **10-0331.02** issued to Cytec Industries, Inc. for their “**Uvekol S Laminated Glass Interlayer**”, dated 05/05/10, expiring on 02/08/14.

**E. STATEMENTS**

1. Statement letter of conformance, no financial interest and compliance with the FBC 2007, dated October 14, 2009, signed and sealed by Javad Ahmad, P. E.  
*(Submitted under previous NOA No.09 -1109.02)*
2. Laboratory compliance letter for Test Reports No.’s **FTL-4537** and **FTL-4535**, issued by Fenestration Testing Laboratory, Inc., dated March 23, 2005, signed and sealed by Edmundo Largaespada, P. E.  
*(Submitted under previous NOA No.05 -0620.01)*

**F. OTHERS**

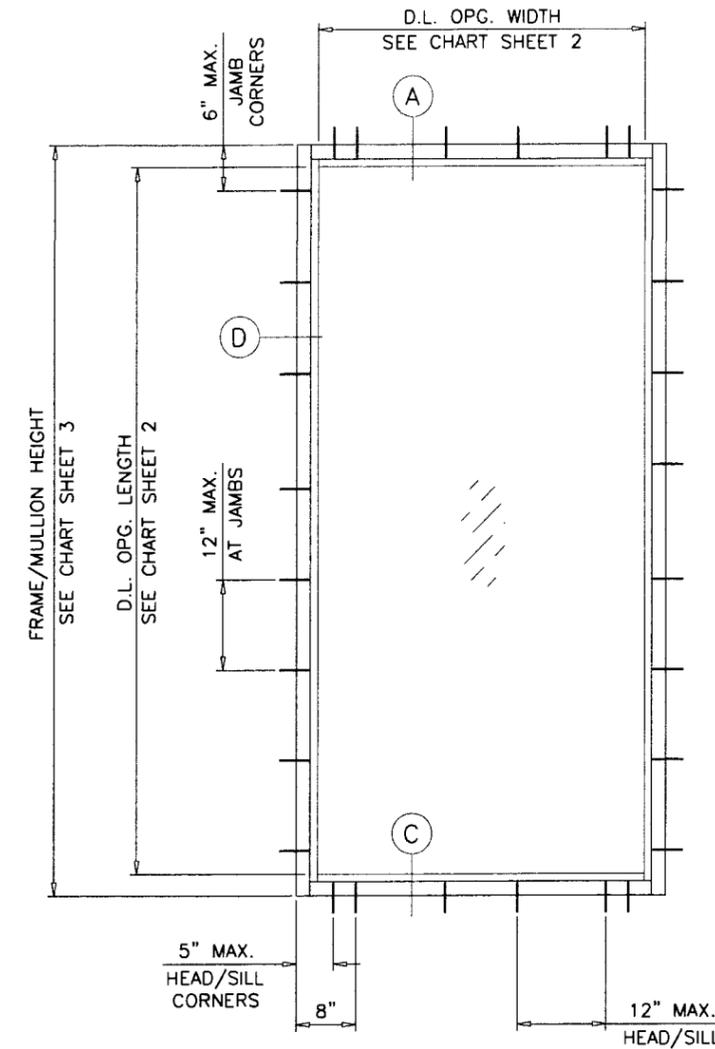
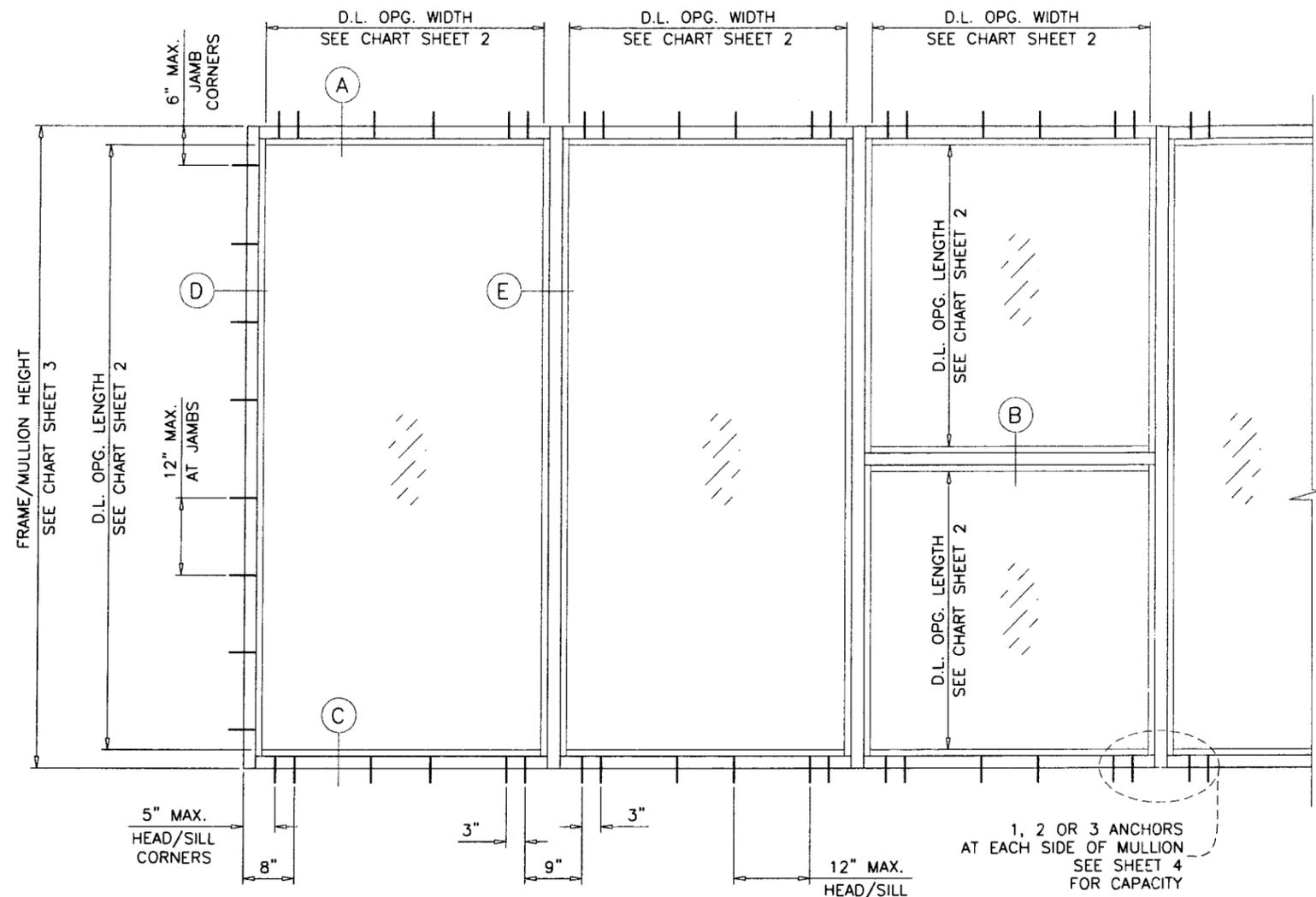
1. Notice of Acceptance No. **09-1109.02**, issued to Glass Tech Engineering, Inc. for their Series “**2046A Aluminum Window Wall System - L.M.I.**”, approved on 03/31/10 and expiring on 08/04/15.



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Jaime D. Gascon, P. E.  
Chief, Product Control Division  
NOA No. 10-0720.12

Expiration Date: August 04, 2015  
Approval Date: August 11, 2010



TYPICAL ELEVATIONS

**SERIES-2046A IMPACT WINDOW WALL SYSTEM**

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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 IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

**INSTRUCTIONS:**

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHART ON SHEETS 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 4 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No **10-0720.12**  
 Expiration Date **08/04/2015**  
 By *[Signature]*  
 Miami Dade Product Control Division

Engr. JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
*[Signature]*  
 MAR 29 2010

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No **09-1109.02**  
 Expiration Date **AUG 4, 2015**  
 By *[Signature]*  
 Miami Dade Product Control Division

**afc**

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE\W05-17GTE

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SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)

**GLASSTECH ENGINEERING INC.**  
 8321 N.W. 70TH STREET  
 MIAMI, FL. 33166  
 TEL. (305) 594-4321 FAX. (305) 599-2730

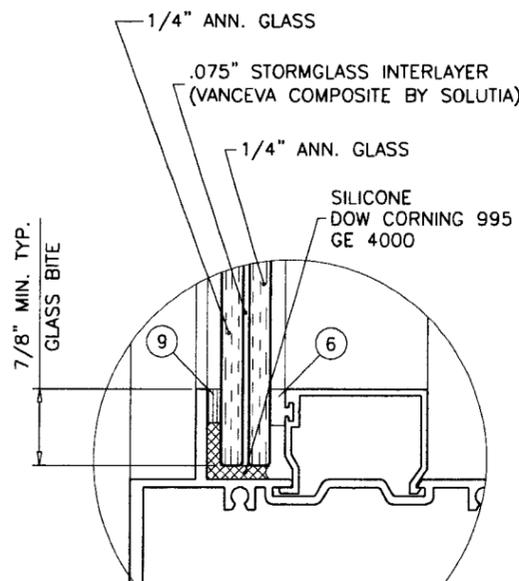
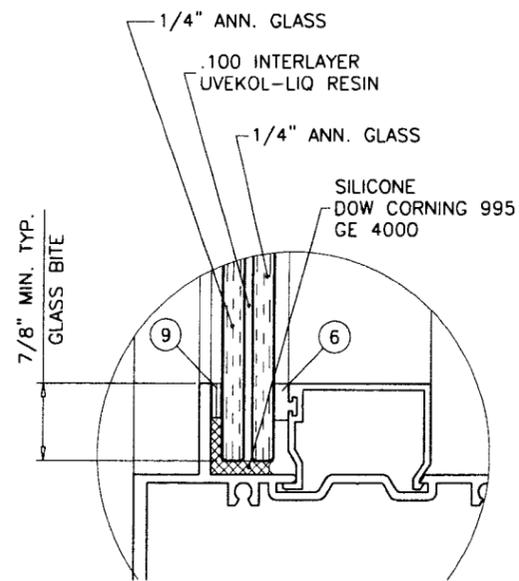
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revisions:

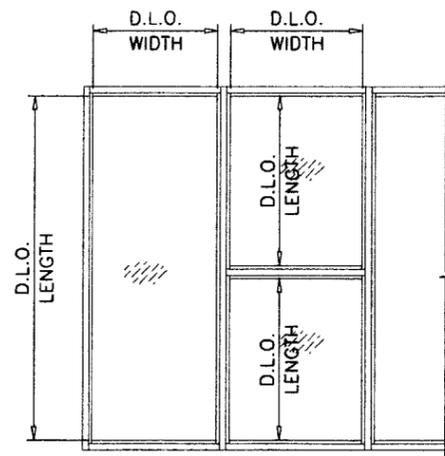
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 chk. by:

drawing no.  
**W05-17**

sheet 1 of 7



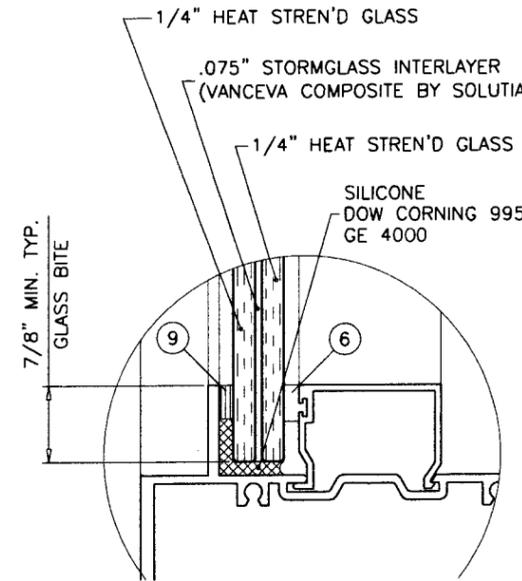
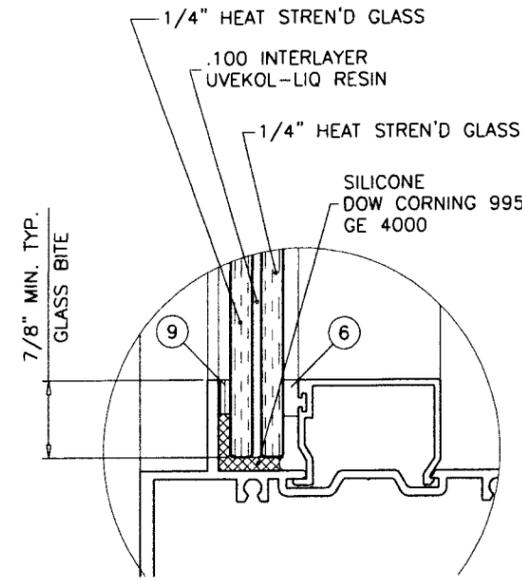
GLASS TYPE 'A'



GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	
D.L.O. WIDTH	D.L.O. LENGTH	EXT.(+) & INT.(-)	
24"	66"	120.0	
30"		120.0	
36"		120.0	
42"		100.0	
48"		96.7	
54"		89.0	
60"	81.9		
24"	72"	120.0	
30"		120.0	
36"		100.0	
42"		98.4	
48"		88.7	
54"		81.0	
24"	78"	120.0	
30"		120.0	
36"		100.0	
42"		91.2	
48"		81.2	
24"		84"	120.0
30"	100.0		
36"	100.0		
42"	85.2		
24"	90"		120.0
30"			100.0
36"		96.8	
42"		80.3	
24"		96"	120.0
30"			100.0
36"	92.5		
24"	102"		100.0
30"			100.0
36"			88.2
24"		108"	100.0
30"			100.0
36"			84.7
24"	114"		100.0
30"			100.0
24"			120"
30"		100.0	

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

GLASS DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. LENGTH	EXT.(+) & INT.(-)
24"	66"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	72"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	78"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	84"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	90"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	96"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	102"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	108"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	114"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	
24"	120"	120.0
30"		120.0
36"		120.0
42"		120.0
48"		120.0
54"		120.0
60"	120.0	



GLASS TYPE 'B'

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 10-0729-12  
 Expiration Date 08/04/2015  
 By *[Signature]*  
 Miami Dade Product Control Division

NOTE:  
 GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-02/04 (3 SEC. GUSTS).

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
*[Signature]*  
 MAR 29 2010

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 09-1109-02  
 Expiration Date AUG 4, 2015  
 By *[Signature]*  
 Miami Dade Product Control Division

**afC**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W05-17GTE

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SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)  
**GLASSTECH ENGINEERING INC.**  
 8321 N.W. 70TH STREET  
 MIAMI, FL. 33166  
 TEL. (305) 594-4321 FAX. (305) 599-2730

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no	date	by	description
A	10.21.09		UPDATED FOR 2007 FBC

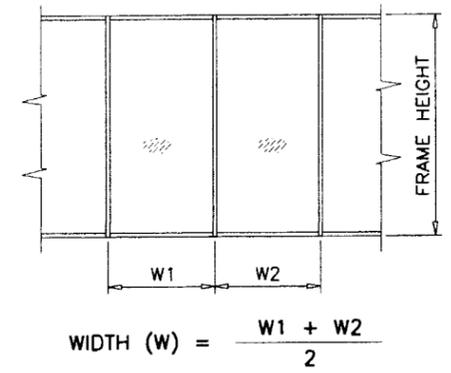
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drawing no. **W05-17**  
 sheet 2 of 7

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING	ST-1 REINFORCING	ST-2 REINFORCING	ST-3 REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
24"	72"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		100.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0
60"	100.0	120.0	120.0	120.0	
24"	78"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		100.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0
60"	-	120.0	120.0	120.0	
24"	84"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		100.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0
60"	-	120.0	120.0	120.0	
24"	90"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		95.9	120.0	120.0	120.0
54"		-	120.0	120.0	120.0
60"	-	113.9	120.0	120.0	
24"	96"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		93.2	120.0	120.0	120.0
48"		83.3	116.3	120.0	120.0
54"		-	105.9	120.0	120.0
60"	-	98.0	116.6	120.0	
24"	102"	-	120.0	120.0	120.0
30"		-	120.0	120.0	120.0
36"		-	120.0	120.0	120.0
42"		-	114.4	120.0	120.0
48"		-	101.9	120.0	120.0
54"		-	92.6	110.1	120.0
24"	108"	-	120.0	120.0	120.0
30"		-	120.0	120.0	120.0
36"		-	116.7	120.0	120.0
42"		-	101.4	120.0	120.0
48"		-	90.2	107.2	120.0
24"		114"	-	120.0	120.0
30"	-		120.0	120.0	120.0
36"	-		104.4	120.0	120.0
42"	-		90.6	107.7	120.0
48"	-		80.4	95.6	108.4
24"	120"		-	120.0	120.0
30"		-	111.7	120.0	120.0
36"		-	93.9	111.7	120.0
42"		-	81.4	96.8	109.7
48"		-	72.1	85.8	97.2



	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	6.2048	2.2894
STEEL	1.8955	.8920
TOTAL	8.1003	3.1814
Ix ALUM + Ix STL X 2.9	11.7018	

ST-1

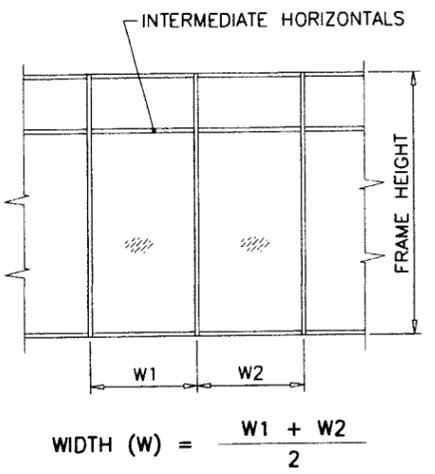
	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	6.2048	2.2894
STEEL	2.6597	1.2516
TOTAL	8.8645	3.5410
Ix ALUM + Ix STL X 2.9	13.9179	

ST-2

	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUM	6.2048	2.2894
STEEL	3.3026	1.5542
TOTAL	9.5074	3.8436
Ix ALUM + Ix STL X 2.9	15.7823	

MULLION W/O REINFORCING      MULLION W/ REINFORCING

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		WITHOUT REINFORCING	ST-1 REINFORCING	ST-2 REINFORCING	ST-3 REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
24"	72"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		100.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0
60"	100.0	120.0	120.0	120.0	
24"	78"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		100.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0
60"	-	120.0	120.0	120.0	
24"	84"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		100.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0
60"	-	111.6	120.0	120.0	
24"	90"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0
48"		97.1	120.0	120.0	120.0
54"		-	108.0	120.0	120.0
60"	-	97.2	115.6	120.0	
24"	96"	100.0	120.0	120.0	120.0
30"		100.0	120.0	120.0	120.0
36"		100.0	120.0	120.0	120.0
42"		91.4	120.0	120.0	120.0
48"		80.0	106.8	120.0	120.0
54"		-	94.9	112.9	120.0
60"	-	85.4	101.6	115.2	
24"	102"	-	120.0	120.0	120.0
30"		-	120.0	120.0	120.0
36"		-	120.0	120.0	120.0
42"		-	108.1	120.0	120.0
48"		-	94.6	112.5	120.0
54"		-	84.1	100.0	113.4
24"	108"	-	120.0	120.0	120.0
30"		-	120.0	120.0	120.0
36"		-	112.5	120.0	120.0
42"		-	96.5	114.7	120.0
48"		-	84.4	100.4	113.8
24"		114"	-	120.0	120.0
30"	-		120.0	120.0	120.0
36"	-		101.0	120.0	120.0
42"	-		86.6	103.0	116.8
48"	-		75.7	90.1	102.2
24"	120"		-	120.0	120.0
30"		-	109.4	120.0	120.0
36"		-	91.1	108.4	120.0
42"		-	78.1	92.9	105.4
48"		-	68.4	81.3	92.2



PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 10-072012  
 Expiration Date 08/04/2015  
 By *[Signature]*  
 Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 09-1109.02  
 Expiration Date AUG 4, 2015  
 By *[Signature]*  
 Miami Dade Product Control Division

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538

*[Signature]*  
 MAR 29 2010

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W05-17GTE

SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)

**GLASSTECH ENGINEERING INC.**  
 8321 N.W. 70TH STREET  
 MIAMI, FL. 33166  
 TEL. (305) 594-4321 FAX. (305) 599-2730

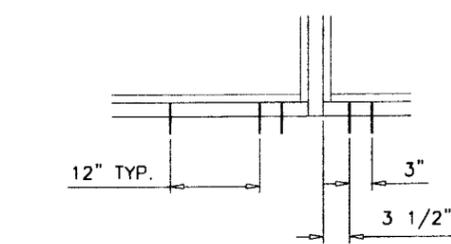
revisions:	no	date	by	description
	A	10.21.09		UPDATED FOR 2007 FBC

date: 04-08-05  
 scale: -  
 dr. by: HAMID  
 chk. by:

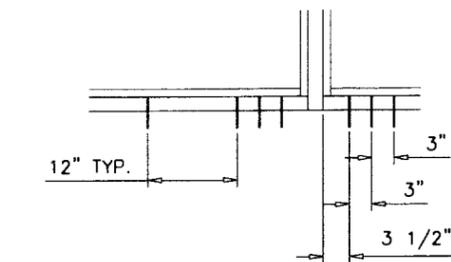
drawing no. **W05-17**  
 sheet 3 of 7

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHORS TYPE 'A'			TYPE 'B' OR 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3
24"	60"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0
48"		118.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0	120.0
60"	110.0	120.0	120.0	120.0	120.0	
24"	66"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		119.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0
48"		107.0	120.0	120.0	120.0	120.0
54"		111.0	120.0	120.0	120.0	120.0
60"	100.0	120.0	120.0	120.0	120.0	
24"	72"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		109.0	120.0	120.0	120.0	120.0
42"		112.0	120.0	120.0	120.0	120.0
48"		98.0	120.0	120.0	120.0	120.0
54"		102.0	116.0	120.0	120.0	120.0
60"	91.0	118.0	120.0	120.0	120.0	
24"	78"	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0
36"		101.0	120.0	120.0	120.0	120.0
42"		103.0	120.0	120.0	120.0	120.0
48"		90.0	120.0	120.0	120.0	120.0
54"		94.0	107.0	120.0	120.0	120.0
60"	84.0	109.0	120.0	120.0	120.0	
24"	84"	120.0	120.0	120.0	120.0	120.0
30"		112.0	120.0	120.0	120.0	120.0
36"		93.0	120.0	120.0	120.0	120.0
42"		96.0	112.0	120.0	120.0	120.0
48"		84.0	112.0	120.0	120.0	120.0
54"		87.0	100.0	120.0	120.0	120.0
60"	78.0	101.0	112.0	120.0	120.0	
24"	90"	120.0	120.0	120.0	120.0	120.0
30"		105.0	120.0	120.0	120.0	120.0
36"		87.0	120.0	120.0	120.0	120.0
42"		90.0	105.0	120.0	120.0	120.0
48"		78.0	105.0	118.0	120.0	120.0
54"		81.0	93.0	116.0	120.0	120.0
60"	73.0	94.0	105.0	120.0	120.0	
24"	96"	120.0	120.0	120.0	120.0	120.0
30"		98.0	120.0	120.0	120.0	120.0
36"		82.0	114.0	120.0	120.0	120.0
42"		84.0	98.0	120.0	120.0	120.0
48"		74.0	98.0	110.0	120.0	120.0
54"		76.0	87.0	109.0	120.0	120.0

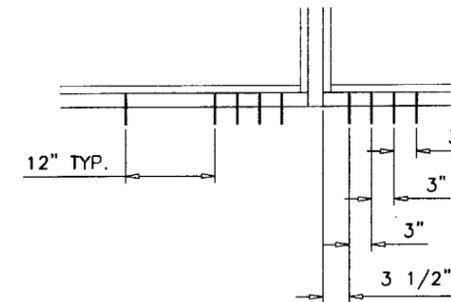
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHORS TYPE 'A'			TYPE 'B' OR 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3
24"	102"	115.0	120.0	120.0	120.0	120.0
30"		92.0	120.0	120.0	120.0	120.0
36"		77.0	108.0	120.0	120.0	120.0
42"		79.0	92.0	119.0	120.0	120.0
48"		69.0	92.0	104.0	120.0	120.0
54"		72.0	82.0	102.0	120.0	120.0
24"	108"	109.0	120.0	120.0	120.0	120.0
30"		87.0	120.0	120.0	120.0	120.0
36"		73.0	102.0	120.0	120.0	120.0
42"		75.0	87.0	112.0	120.0	120.0
48"		65.0	87.0	98.0	120.0	120.0
54"		68.0	-	-	120.0	120.0
24"	114"	103.0	120.0	120.0	120.0	120.0
30"		83.0	116.0	120.0	120.0	120.0
36"		69.0	96.0	120.0	120.0	120.0
42"		71.0	83.0	106.0	120.0	120.0
48"	62.0	83.0	93.0	117.0	120.0	
24"	120"	98.0	120.0	120.0	120.0	120.0
30"		78.0	110.0	120.0	120.0	120.0
36"		65.0	91.0	118.0	120.0	120.0
42"		67.0	78.0	101.0	120.0	120.0
48"		59.0	78.0	88.0	112.0	120.0



A2, B2, C2



A3, B3, C3



A4

ANCHORS TYPES: SEE SHEET 5 FOR DESCRIPTION

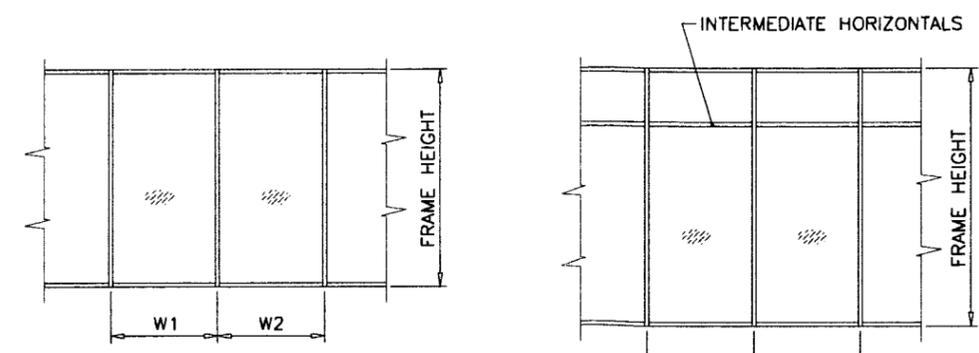
- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION

- B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

- C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
- C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

PRODUCT REVISED  
as complying with the Florida  
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Acceptance No. 10-0729.12  
Expiration Date 08/04/2015  
By *Manuel Jara*  
Miami Trade Product Control  
Division



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
*JA*  
MAR 29 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 09-1109.02  
Expiration Date AUG. 4, 2015  
By *Manuel Jara*  
Miami Trade Product Control  
Division

**afC**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W05-17GTE

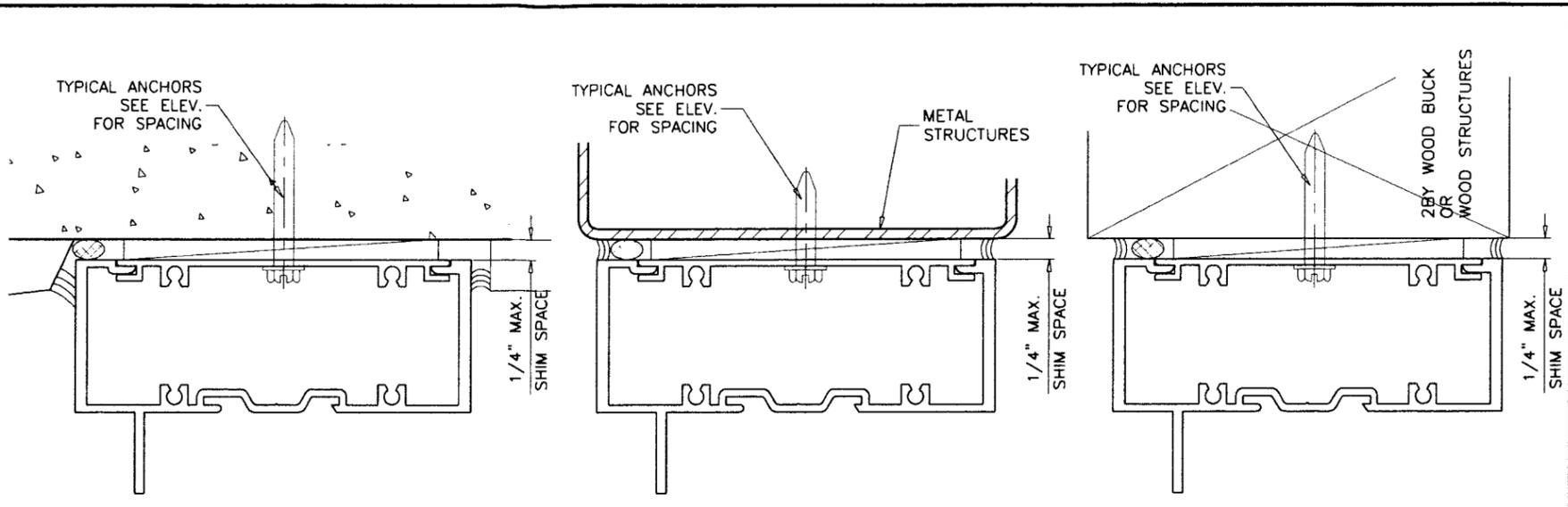
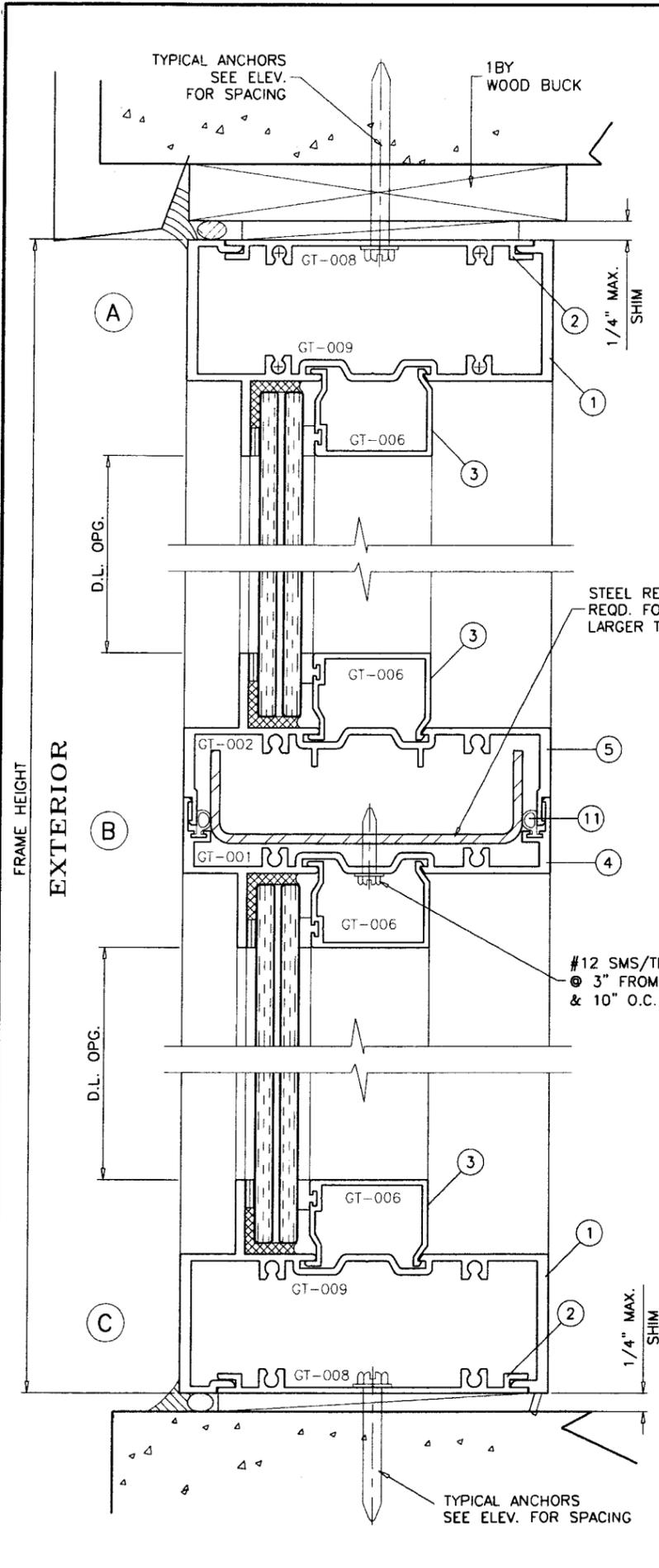
SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)

**GLASSTECH ENGINEERING INC.**  
8321 N.W. 70TH STREET  
MIAMI, FL. 33166  
TEL. (305) 594-4321 FAX. (305) 599-2730

no	date	description
A	10.21.09	UPDATED FOR 2007 FBC

date: 04-08-05  
scale: -  
dr. by: HAMID  
chk. by:

drawing no. **W05-17**  
sheet 4 of 7



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

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-3/8" MIN. PENETRATION INTO WOOD  
 THRU 1BY BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY  
 DIRECTLY INTO CONC. OR MASONRY  
 1-3/8" MIN. EMBED INTO CONCRETE  
 1-1/4" MIN. EMBED INTO MASONRY

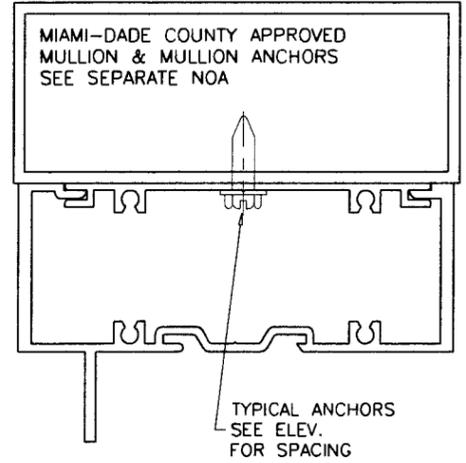
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)  
 INTO METAL STRUCTURES  
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)  
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)  
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.)  
 (NO SHIM SPACE)

**TYPICAL EDGE DISTANCE**  
 INTO CONCRETE AND MASONRY = 2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**SEALANTS:**  
 ALL FRAME CORNERS SEALED WITH JOINT SEALANT.



PRODUCT REVISED  
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 Building Code  
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 Expiration Date 03/04/2015  
 By *[Signature]*  
 Miami Dade Product Control  
 Division

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
*[Signature]*  
 MAR 29 2010

PRODUCT REVISED  
 as complying with the Florida  
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 Expiration Date AUG. 4, 2015  
 By *[Signature]*  
 Miami Dade Product Control  
 Division

**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE/W05-17GTE

SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)  
**GLASSTECH ENGINEERING INC.**  
 8321 N.W. 70TH STREET  
 MIAMI, FL. 33166  
 TEL. (305) 594-4321 FAX. (305) 599-2730

revisions:	no	date	description
	A	10.21.09	UPDATED FOR 2007 FBC

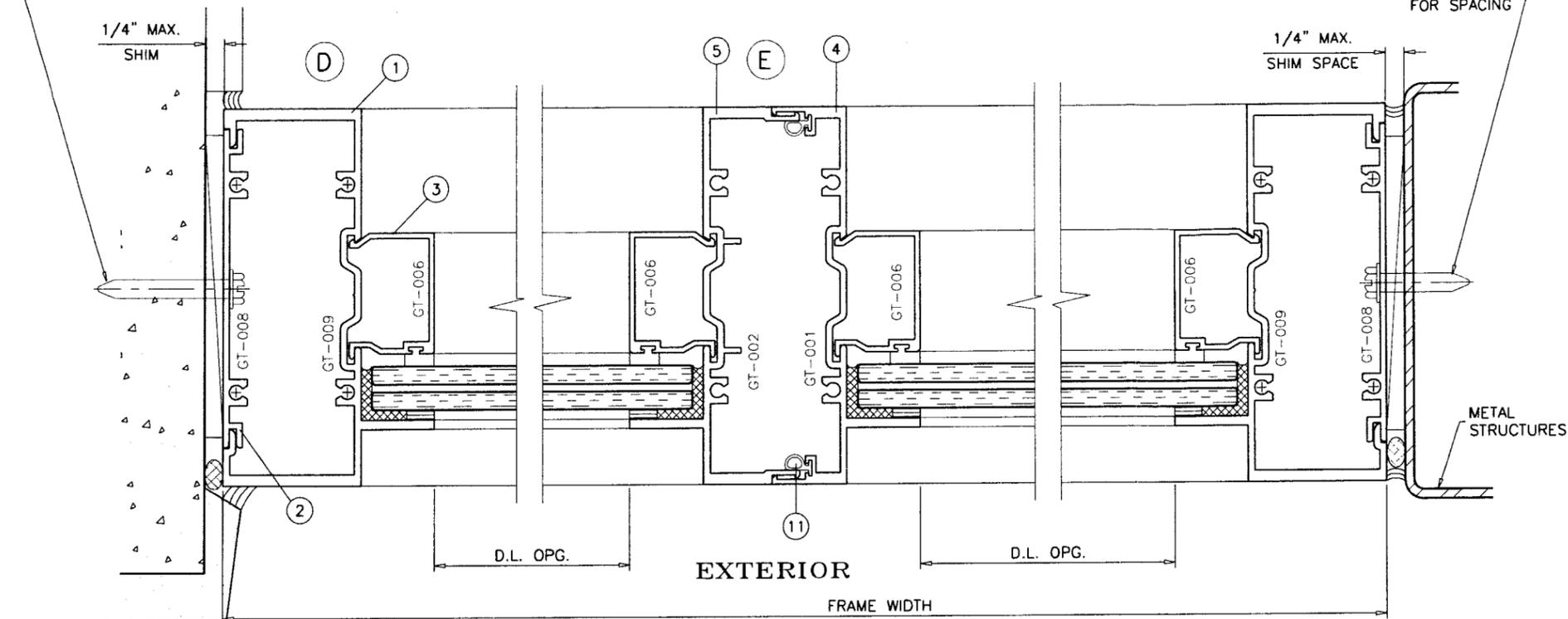
  

date:	04-08-05	scale:	1/2" = 1"
dr. by:	HAMID	chk. by:	

drawing no.	W05-17
sheet	5 of 7

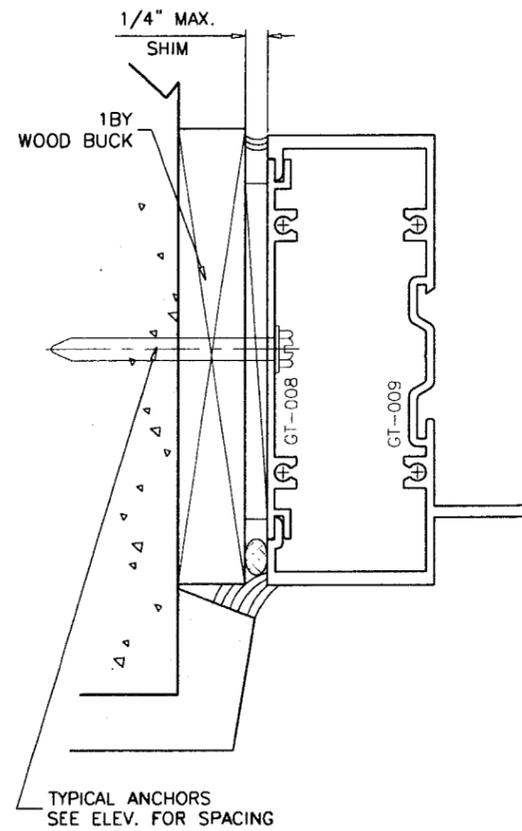
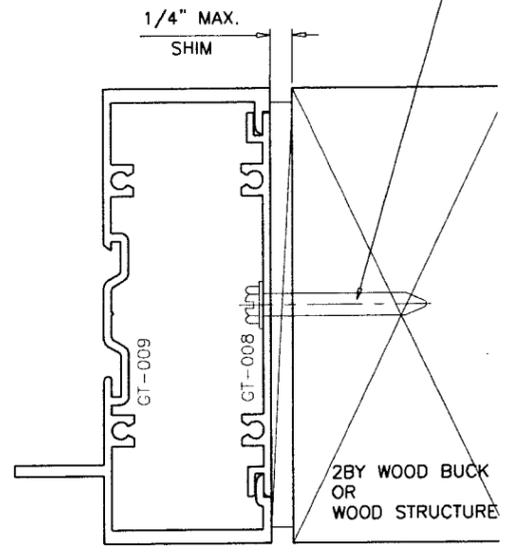
TYPICAL ANCHORS  
SEE ELEVATIONS  
FOR SPACING



TYPICAL ANCHORS  
SEE ELEVATIONS  
FOR SPACING

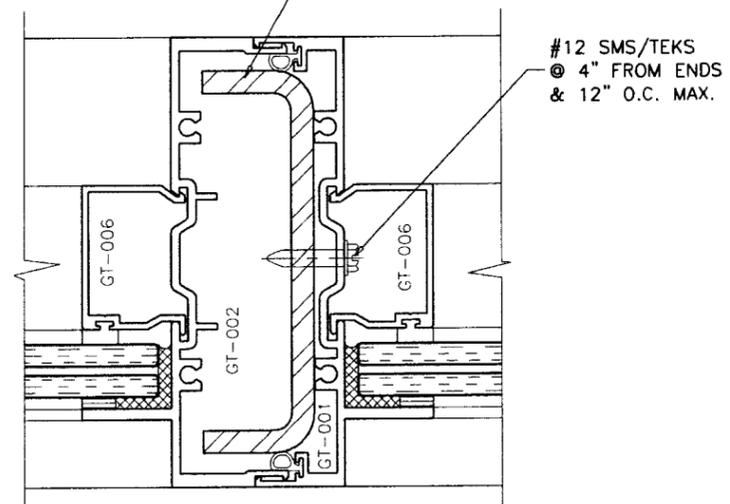
TYPICAL ANCHORS  
SEE ELEVATIONS  
FOR SPACING

METAL  
STRUCTURES



TYPICAL ANCHORS  
SEE ELEV. FOR SPACING

STEEL REINFORCING  
OPTIONAL  
SEE CHART ON SHEET 3



#12 SMS/TEKS  
@ 4" FROM ENDS  
& 12" O.C. MAX.

PRODUCT REVISED  
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Building Code  
Acceptance No. **10-0720.12**  
Expiration Date **08/04/2015**  
By *[Signature]*  
Miami Dade Product Control  
Division

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

*[Signature]*  
MAR 29 2010

PRODUCT REVISED  
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Building Code  
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Expiration Date **Aug 4, 2015**  
By *[Signature]*  
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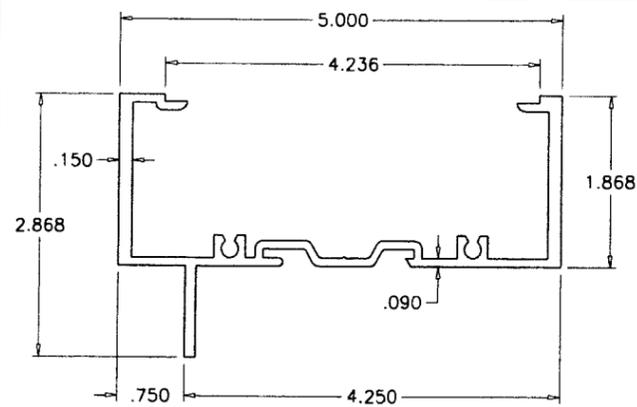
**afc**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE \W05-17GTE

SERIES-2046A ALUM WINDOW WALL SYSTEM (L.M.I.)  
**GLASSTECH ENGINEERING INC.**  
8321 N.W. 70TH STREET  
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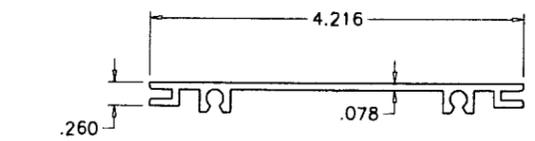
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no	date by description
A	10.21.09 UPDATED FOR 2007 FBC

date: 04-08-05  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

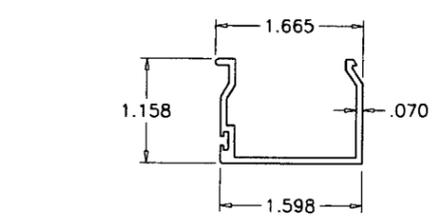
drawing no.  
**W05-17**  
sheet 6 of 7



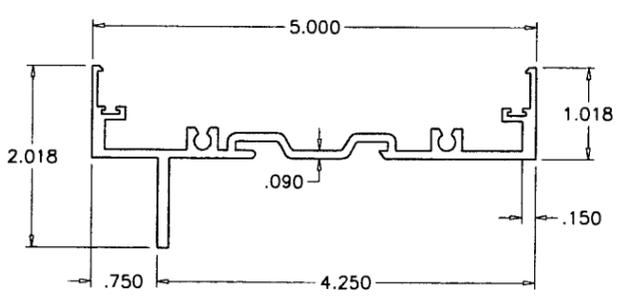
1 FRAME HEAD/SILL/JAMB



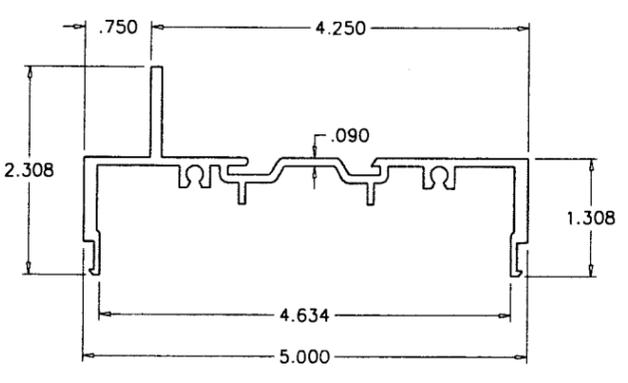
2 FLAT POCKET FILLER



3 GLAZING STOP

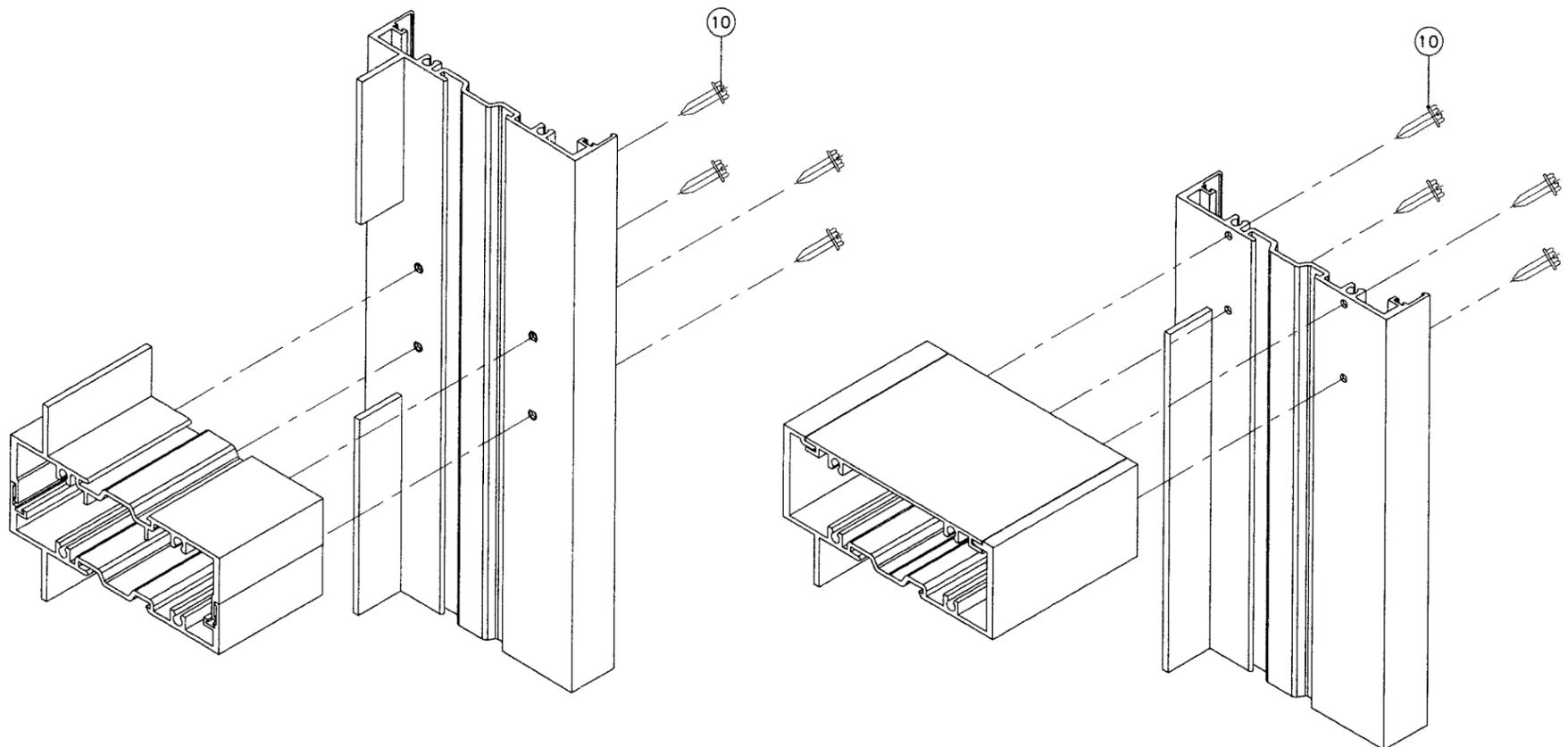


4 FEMALE FRAME

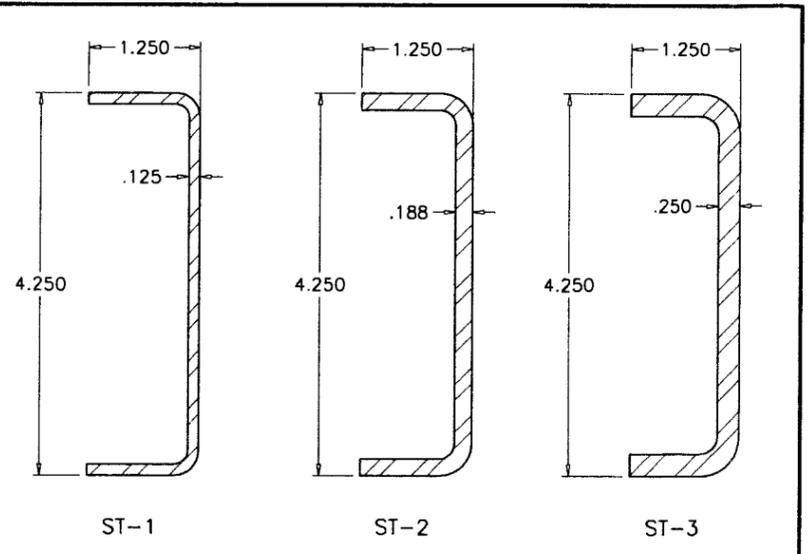


5 MALE FRAME

ITEM No.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	GT-009	AS REQD.	HEAD, SILL AND JAMB FRAME	6063-T6	-
2	GT-008	AS REQD.	FLAT POCKET FILLER	6063-T6	-
3	GT-006	AS REQD.	GLAZING BEAD	6063-T5	-
4	GT-001	AS REQD.	FEMALE FRAME	6063-T6	-
5	GT-002	AS REQD.	MALE FRAME	6063-T6	-
6	TR-427N	AS REQD.	GLAZING GASKET	NEOPRENE	TREMCO
8	995/4000	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING/GE
9	V2204	AS REQD.	GLAZING TAPE (1/8" X 3/8")	-	NORTON
10	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	-	SMS OR SELF DRILLING
11	-	AS REQD.	BULB VINYL	-	-



FRAME CORNERS



ST-1 ST-2 ST-3

11 STEEL REINFORCING 36 KSI MIN.

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
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 Expiration Date 03/04/2015  
 By *[Signature]*  
 Miami Dade Product Control  
 Division

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
*[Signature]*  
 MAR 29 2010

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 Expiration Date AUG. 4, 2015  
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**af c**  
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no.	date	by	description
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date: 04-08-05  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:  
 drawing no. W05-17  
 sheet 7 of 7