



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

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339

www.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

Atrium Florida, Inc.
9001 Ambassador Row
Dallas, TX 75247

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 "MPSH" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W01-81**, titled "Series MPSH Alum. Single Hung Wdw. (L.M.I.)", sheets 1 through 9 of 9, dated 12/26/01 with revision "E" dated 10/12/10, 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 **NOA No. 09-0707.05** and consists of this page 1 and 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
 11/30/10

NOA No. 10-0729.02
Expiration Date: March 14, 2012
Approval Date: December 24, 2010
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W01-81**, Sheets 1 through 9 of 9, dated 12/26/01 with revision "E" dated 10/12/10, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per PA 202-94
2) Uniform Static Air Pressure Test, Loading per PA 202-94
3) Water Resistance Test, per 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 aluminum single hung windows OX configuration, prepared by Certified Testing Laboratories, Inc., Test Report No. **CTLA-2005W**, dated 02/24/10, signed and sealed by Ramesh O. Patel, P. E.
2. Test reports on: 1) Air Infiltration Test, per PA 202-94
2) Uniform Static Air Pressure Test, Loading per PA 202-94
3) Water Resistance Test, per PA 202-94
4) Large Missile Impact Test per SFBC, PA 201-94
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
6) Forced Entry Test, per AAMA 1302.5-1976 and PA 202-94
along with marked-up drawings and installation diagram of aluminum single hung windows OX configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3068**, dated 05/14/01, signed and sealed by Luis Antonio Figueredo, P. E.
(Submitted under previous NOA No. 02-0128.06)
3. Test reports on: 1) Large Missile Impact Test per SFBC, PA 201-94
2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of aluminum single hung windows OX configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3253**, dated 11/08/01, signed and sealed by Luis Antonio Figueredo, P. E.
(Submitted under previous NOA No. 02-0128.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 06/02/10, prepared by Al-Farooq Corporation, signed, sealed and dated 11/24/10 by Javad Ahmad, P. E.
Complies with ASTM E1300-04



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 10-0729.02
Expiration Date: March 14, 2012
Approval Date: December 24, 2010

Atrium Florida, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. **QUALITY ASSURANCE**

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

E. **MATERIAL CERTIFICATIONS**

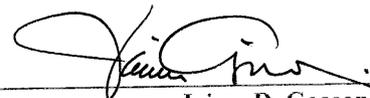
1. Notice of Acceptance No. **10-0922.09** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.
2. Notice of Acceptance No. **08-0206.01** issued to Solutia Inc. for their "**Saflex HP Glass Interlayer**" dated 04/17/2008, expiring on 04/17/2013.
3. Notice of Acceptance No. **07-0831.06** issued to Cardinal LG for their "**Laminated Glass Cardinal Sea-Storm Type B**", dated 10/11/07, expiring on 12/30/12.

F. **STATEMENTS**

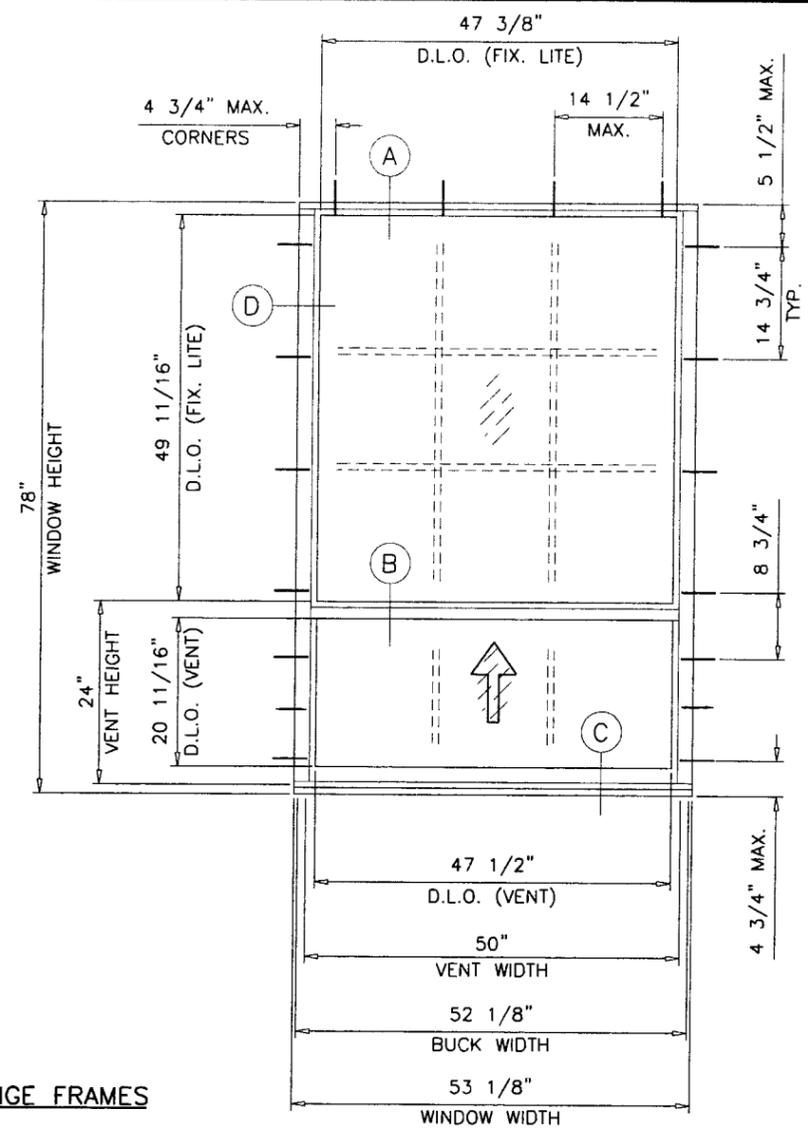
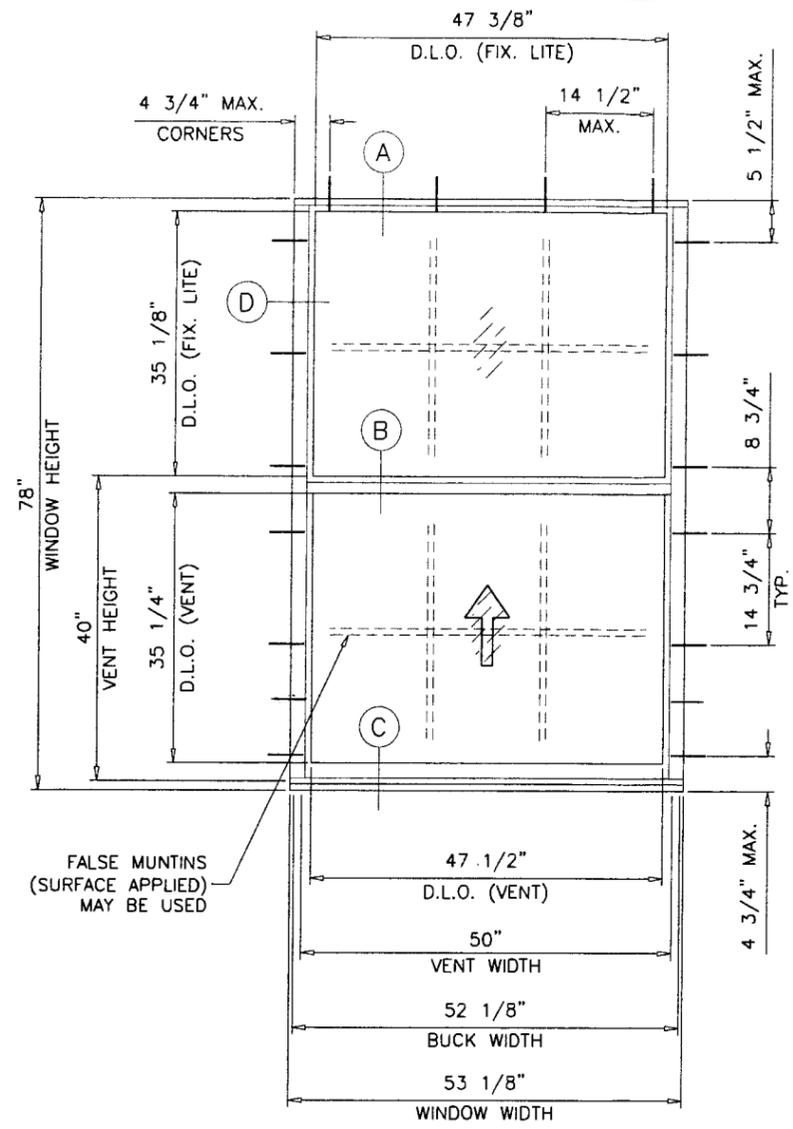
1. Statement letter of conformance and no financial interest, dated June 02, 2010, signed and sealed by Javad Ahmad, P. E.
2. Laboratory compliance letter for Test Report No. **CTLA-2005W**, issued by Certified Testing Laboratories, Inc., dated February 24, 2010, signed and sealed by Ramesh O. Patel, P. E.
3. Laboratory compliance letter for Test Reports No.'s **FTL-3068** and **FTL-3253**, issued by Fenestration Testing Laboratory, Inc., dated 05/14 and 11/08/2001, both signed and sealed by Luis Antonio Figueredo, P. E.
(Submitted under previous NOA No. 02-0128.06)
4. Proposal No. **09-1541** issued by BCCO, dated November 04, 2009, signed by Manuel Perez, P. E.

G. **OTHERS**

1. Notice of Acceptance No. **09-0707.05**, issued to Atrium Florida, Inc. for their Series "MPSH" Aluminum Single Hung Window – L.M.I., approved on 08/26/09 and expiring on 03/14/12.



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 10-0729.02
Expiration Date: March 14, 2012
Approval Date: December 24, 2010



FLANGE FRAMES
TYPICAL ELEVATION
TESTED UNITS

SERIES MPSH/M41-51 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 3 AND 4.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY/HVHZ APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

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

NOV 24 2010

PRODUCT REVISION
as complying with the Florida Building Code
Acceptance No. 10-0729.02
Expiration Date 03/14/2012
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
COMP-ANL\W01-81KL

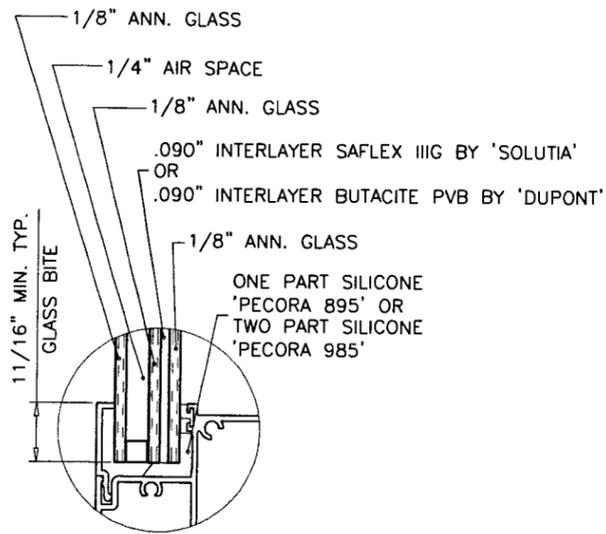
SERIES MPSH/M41-51 ALUM S.H. WDW. (L.M.I./S.M.I.)
ATRIUM FLORIDA, INC.
9001 AMBASSADOR ROW
DALLAS, TX. 75247
TEL. (214) 637-2696 FAX. (214) 424-6734

no.	date	by	description
A	02.12.02		REV. PER BCCO COMMENTS
B	02.07.07		UPDATED FOR 2004 FBC
C	06.30.09		UPDATED FOR 2007 FBC
D	05.27.10		GENERAL REVISION
E	10.12.10		NO CHANGE THIS SHEET

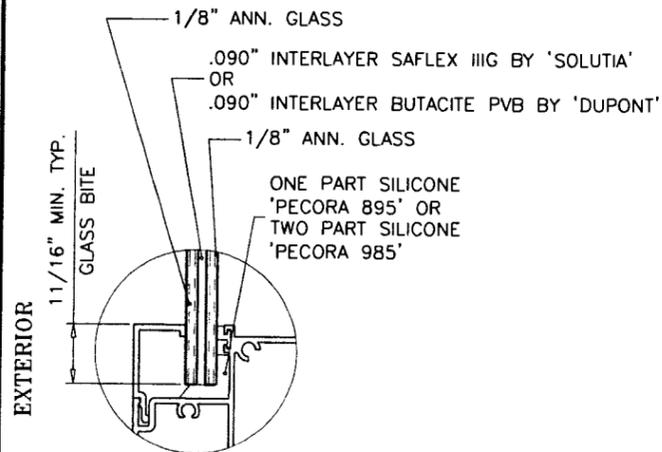
date: 12-26-01
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no. **W01-81**
sheet 1 of 9

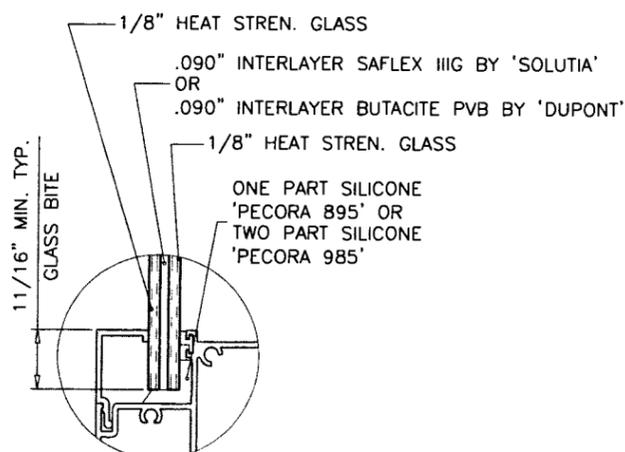
NOTE:
 1. GLASS TYPES A, B & E QUALIFY FOR BOTH LARGE AND SMALL MISSILE IMPACT
 2. GLASS TYPE C QUALIFIES FOR LARGE MISSILE IMPACT ONLY.



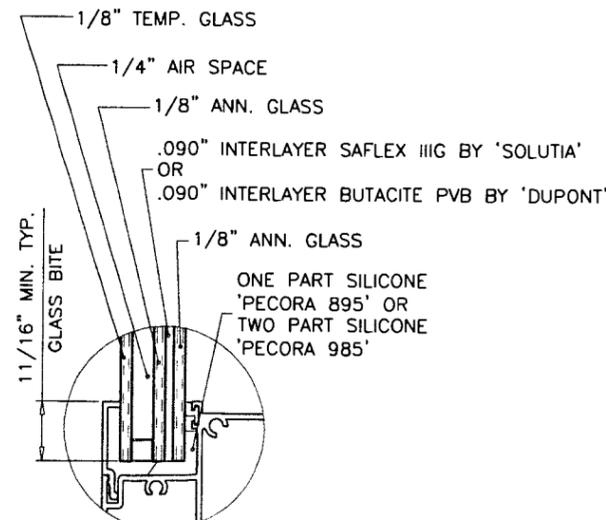
GLASS TYPE 'C'
 LMI ONLY SEE NOTE 2



GLASS TYPE 'A'

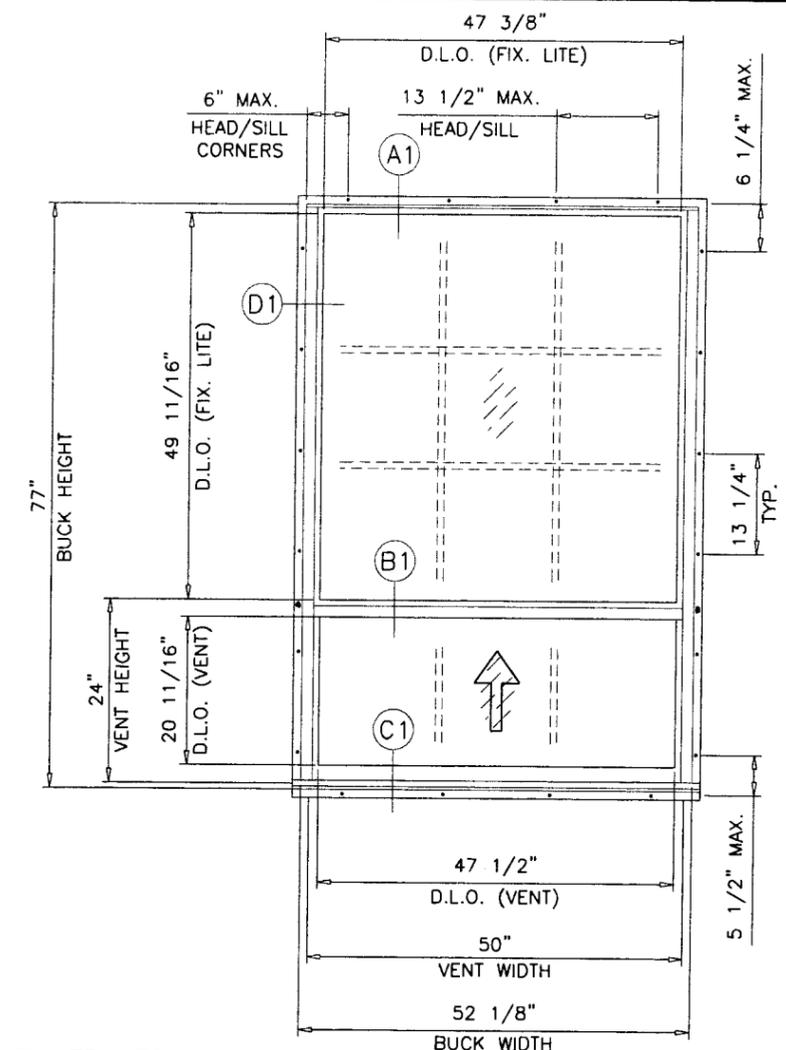
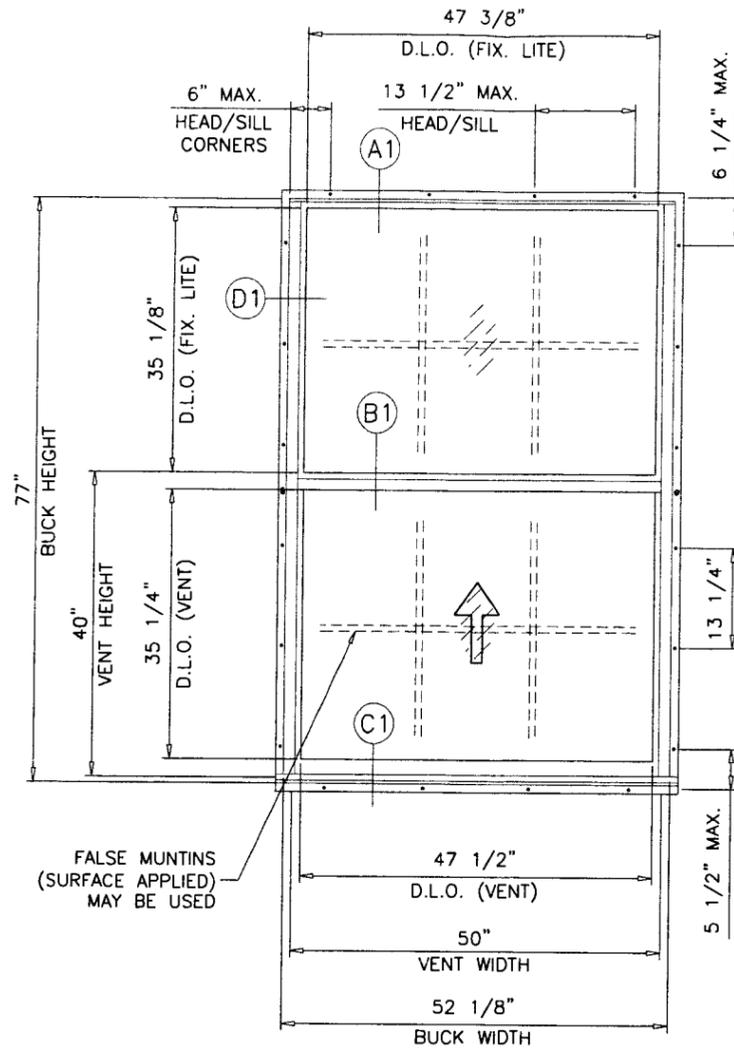


GLASS TYPE 'B'



GLASS TYPE 'E'

GLAZING OPTIONS



FIN FRAMES
 TYPICAL ELEVATION
 TESTED UNITS

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W01-81KL

SERIES MP5H/M41-51 ALUM S.H. WDW. (L.M.I./S.M.I.)
ATRIUM FLORIDA, INC.
 9001 AMBASSADOR ROW
 DALLAS, TX. 75247
 TEL. (214) 637-2696 FAX. (214) 424-6734

no	date	description
A	02.12.02	REV. PER BCCO COMMENTS
B	02.07.07	UPDATED FOR 2004 FBC
C	06.30.09	UPDATED FOR 2007 FBC
D	05.27.10	GENERAL REVISION
E	10.12.10	REV. PER BCCO COMMENTS

date:	12-26-01
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

drawing no.
W01-81
 sheet 2 of 9

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3528
 NOV 24 2010

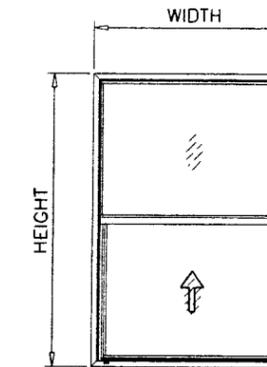
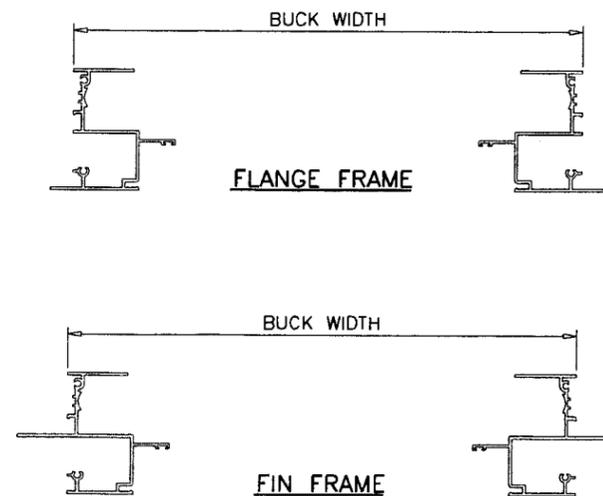
PRODUCT REVISION
 as complying with the Florida
 Building Code
 Acceptance No. 10-0729.02
 Expiration Date 03/14/2012
 By: *[Signature]*
 Miami Dade Product Control
 Division

EQUAL LITES WINDOWS									
DESIGN LOAD CAPACITY - PSF									
BUCK DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	36" (3)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
24"	44" (4)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
24"	52' (4)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	
24"	60" (5)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"	79.8	79.8	80.0	80.0	80.0	80.0	80.0	80.0	
24"	72" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"	72.4	72.4	80.0	80.0	77.3	77.3	80.0	80.0	
24"	77" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"	70.3	70.3	77.5	77.5	73.8	73.8	77.7	77.7	

NO. IN PARENTHESIS INDICATE NUMBER OF ANCHORS PER JAMB.

EQUAL LITES WINDOWS									
DESIGN LOAD CAPACITY - PSF									
BUCK DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18-1/8"	25" (4)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
18-1/8"	37-3/8" (4)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
18-1/8"	49-5/8" (4)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
18-1/8"	57" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
18-1/8"	62" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		78.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0
18-1/8"	77" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		70.0	70.0	77.5	77.5	73.6	73.6	77.5	77.5

NO. IN PARENTHESIS INDICATE NUMBER OF ANCHORS PER JAMB.



EQUAL LITES

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

NOV 24 2010

PRODUCT REVISE,
as complying with the Florida
Building Code
Acceptance No. 10-0729-02
Expiration Date 03/14/2012
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
COMP-ANL\W01-81KL

SERIES MP5H/M41-51 ALUM. SH. WDW. (L.M.I./S.M.I.)
TRIUM FLORIDA, INC.
9001 AMBASSADOR ROW
DALLAS, TX. 75247
TEL. (214) 637-2696 FAX. (214) 424-6734

no	date	description
A	02.12.02	REV. PER BCCO COMMENTS
B	02.07.07	UPDATED FOR 2004 FBC
C	06.30.09	UPDATED FOR 2007 FBC
D	05.27.10	GENERAL REVISION
E	10.12.10	REV. PER BCCO COMMENTS

date: 12-26-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

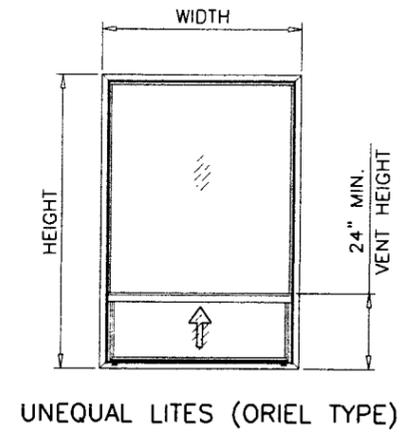
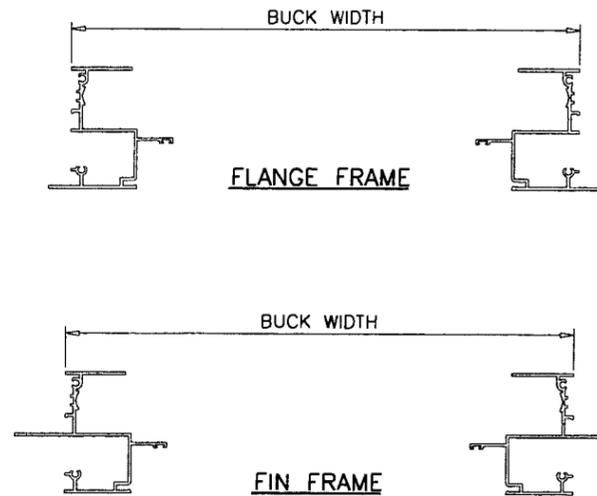
drawing no.
W01-81
sheet 3 of 9

UNEQUAL LITES WINDOWS									
DESIGN LOAD CAPACITY - PSF									
BUCK DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	52' (4)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"		76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
24"	60" (5)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
44"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52"		74.4	74.4	80.0	80.0	77.3	77.3	80.0	80.0
24"	72" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
40"		80.0	80.0	80.0	80.0	77.8	77.8	80.0	80.0
44"		75.7	75.7	80.0	80.0	72.4	72.4	80.0	80.0
48"		70.5	70.5	80.0	80.0	67.4	67.4	74.9	74.9
52"	66.3	66.3	80.0	80.0	63.4	63.4	70.4	70.4	
24"	77" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
28"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		79.0	79.0	80.0	80.0	75.6	75.6	80.0	80.0
40"		73.3	73.3	80.0	80.0	70.1	70.1	77.9	77.9
44"		69.0	69.0	80.0	80.0	66.0	66.0	73.4	73.4
48"		65.2	65.2	80.0	80.0	62.4	62.4	69.3	69.3
52"	64.6	64.6	77.7	77.7	61.7	61.7	68.6	68.6	

NO. IN PARENTHESIS INDICATE NUMBER OF ANCHORS PER JAMB.

UNEQUAL LITES WINDOWS									
DESIGN LOAD CAPACITY - PSF									
BUCK DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18-1/8"	49-5/8" (4)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
18-1/8"	57" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		76.0	76.0	80.0	80.0	80.0	80.0	80.0	80.0
18-1/8"	62" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
52-1/8"		73.1	73.1	80.0	80.0	74.3	74.3	80.0	80.0
18-1/8"	77" (6)	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
25-1/2"		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36"		79.0	79.0	80.0	80.0	75.6	75.6	80.0	80.0
52-1/8"		64.4	64.4	77.5	77.5	61.6	61.6	68.4	68.4

NO. IN PARENTHESIS INDICATE NUMBER OF ANCHORS PER JAMB.



UNEQUAL LITES (ORIEL TYPE)

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70558
NOV 24 2010

PRODUCT REVISION
as complying with the Florida
Building Code
Acceptance No. 10-0729.02
Expiration Date 03/14/2012
By:
Miami Dade Product Control
Division

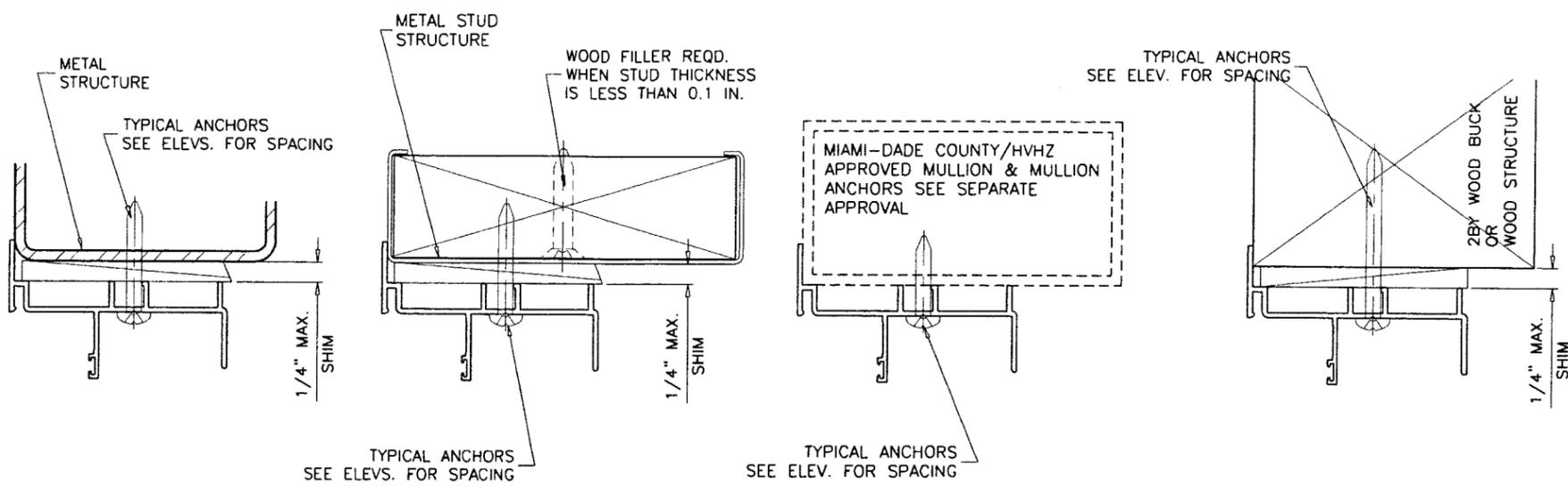
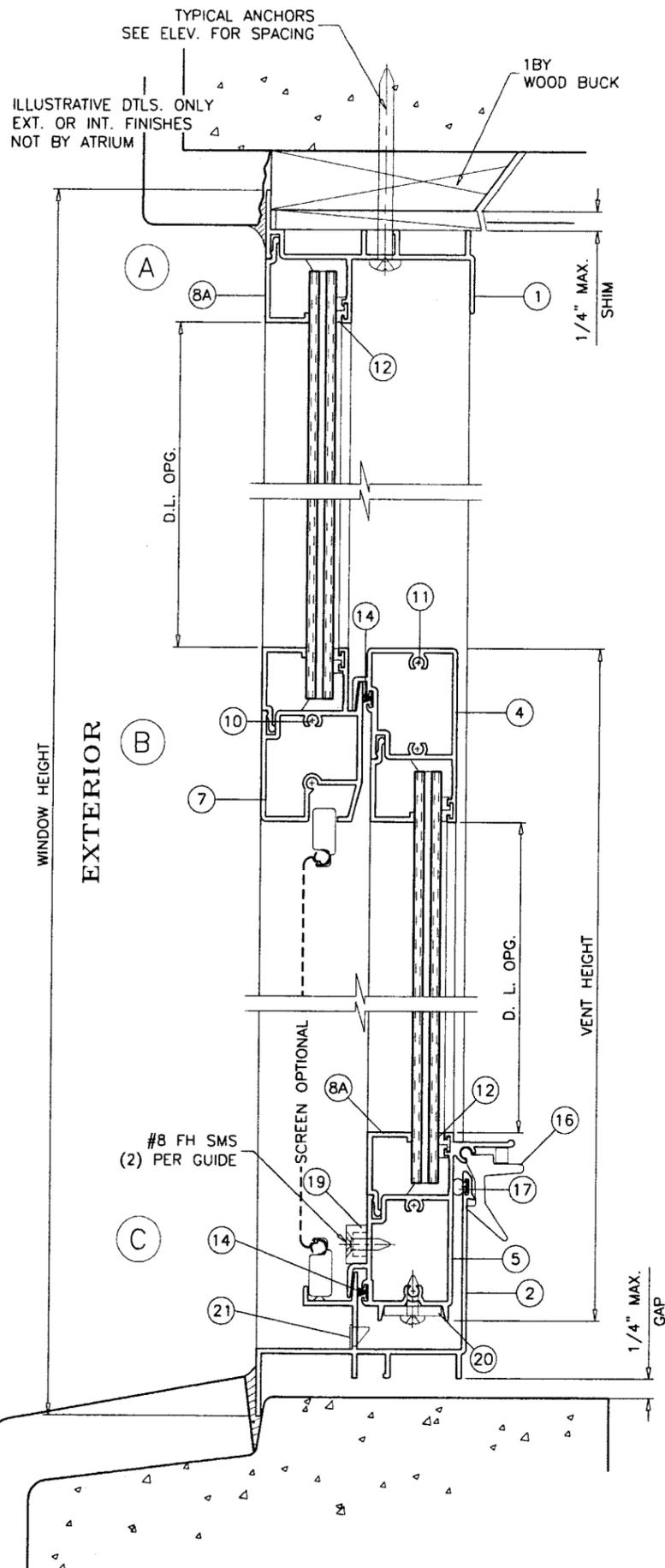
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 262-6978 FAX. (305) 264-8100
COMP-ANL\W01-81KL

SERIES MP5H/M41-51 ALUM S.H. WDW. (L.M.I./S.M.I.)
ATRIUM FLORIDA, INC.
9001 AMBASSADOR ROW
DALLAS, TX. 75247
TEL. (214) 637-2696 FAX. (214) 424-6734

no	date	description
A	02.12.02	REV. PER BCCO COMMENTS
B	02.07.07	UPDATED FOR 2004 FBC
C	06.30.09	UPDATED FOR 2007 FBC
D	05.27.10	GENERAL REVISION
E	10.12.10	REV. PER BCCO COMMENTS

date: 12-26-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W01-81
sheet 4 of 9



WOOD BUCKS, METAL STUDS AND METAL STRUCTURE NOT BY ATRIUM MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)

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

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES

STEEL : 1/8" THK. 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
INTO MIAMI-DADE COUNTY/HVHZ APPROVED MULLIONS (MIN. THK. = .090")
(NO SHIM SPACE)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

CONCRETE f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

FLANGE FRAME WINDOW

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
NOV 24 2010

PRODUCT REVISION
as complying with the Florida Building Code
Acceptance No. 10-0729.02
Expiration Date 03/14/2012

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
COMP-ANL\W01-81KL

SERIES MP5H/M41-51 ALUM S.H. WDW. (L.M.I./S.M.I.)

ATRIUM FLORIDA, INC.
9001 AMBASSADOR ROW
DALLAS, TX. 75247
TEL. (214) 637-2696 FAX. (214) 424-6734

no	date	by	description
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C	06.30.09		ANCHORS REV.
D	05.27.10		GENERAL REVISION
E	10.12.10		REV. PER BCCO COMMENTS

date: 12-26-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

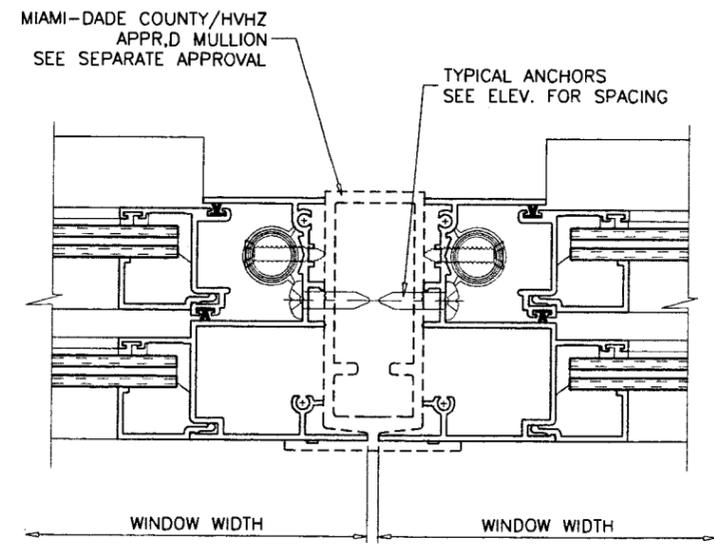
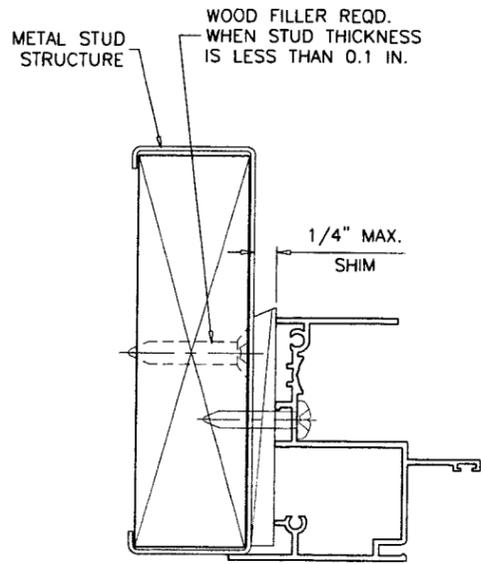
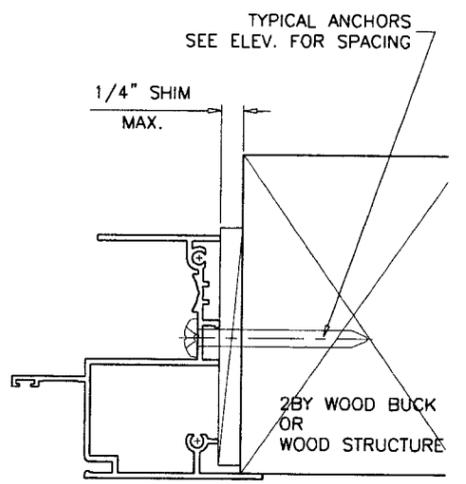
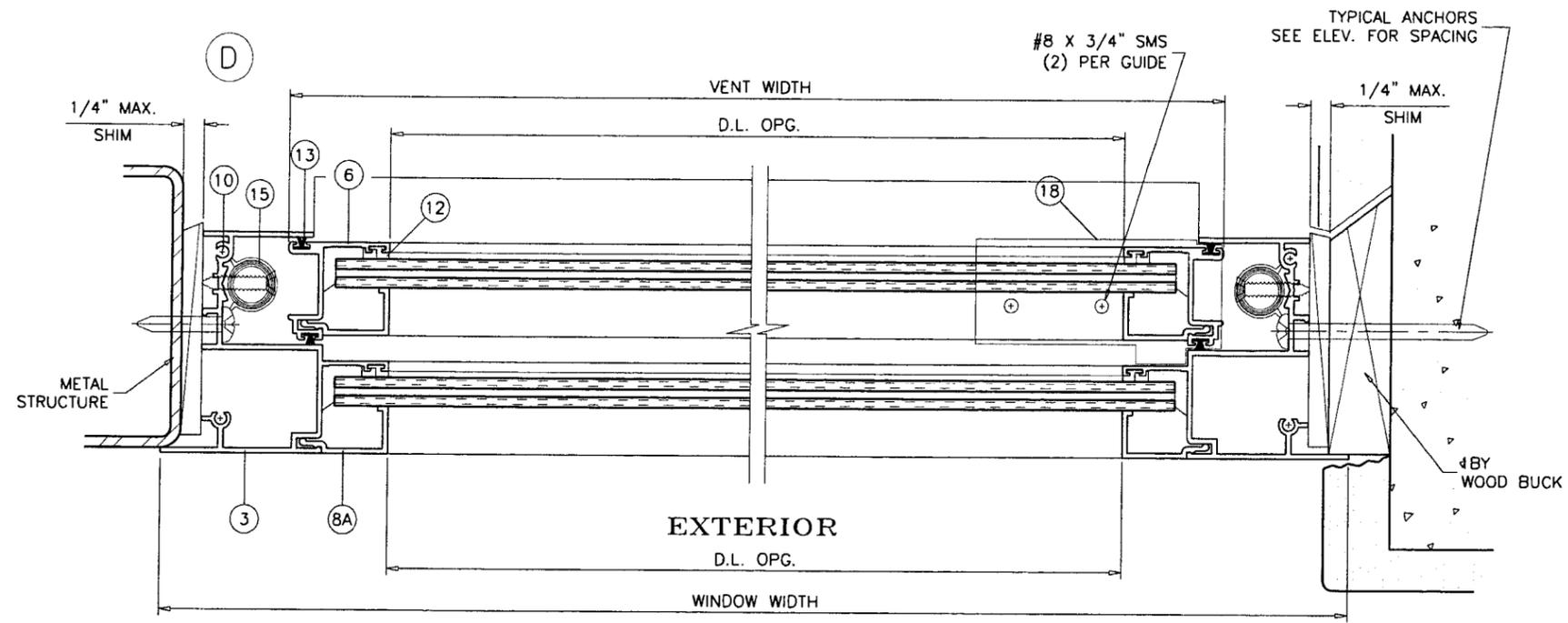
drawing no. **W01-81**
sheet 5 of 9

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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no	date	description
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E	10.12.10	REV. PER BCCO COMMENTS

date:	12-28-01
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	
drawing no.	W01-81
sheet	6 of 9



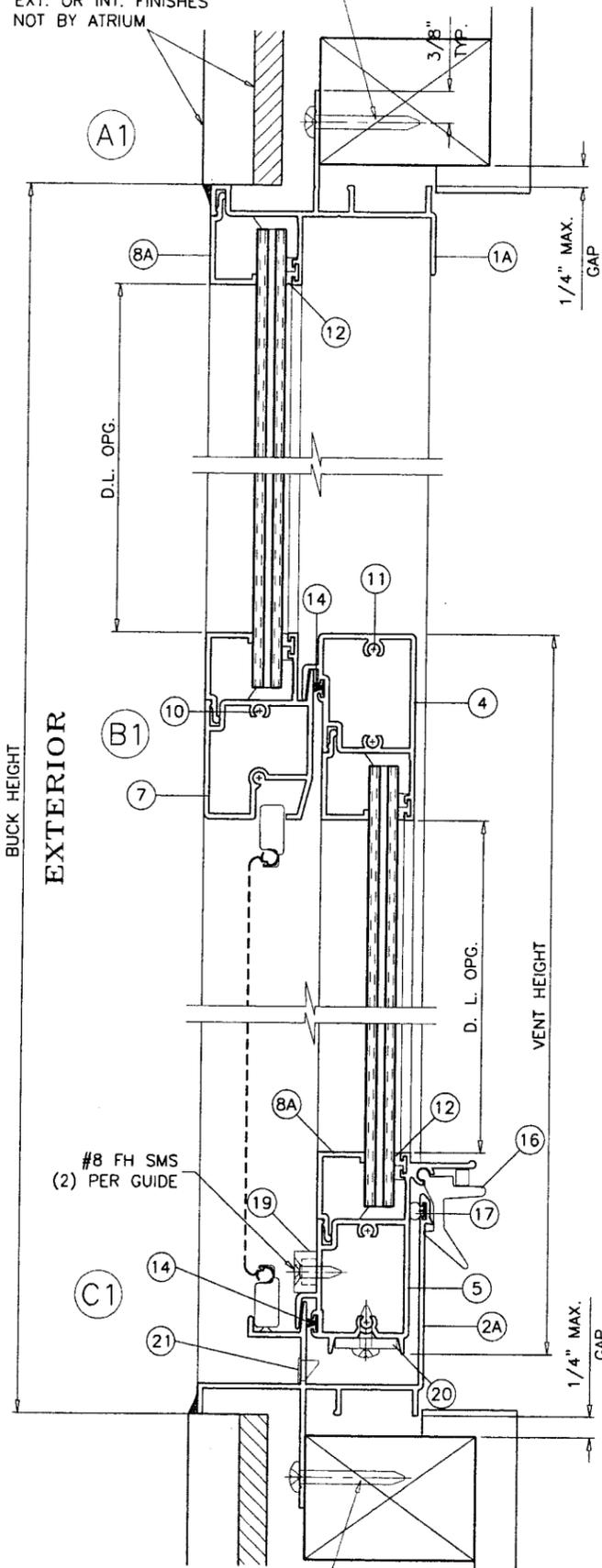
FLANGE FRAME WINDOW

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 NOV 24 2010

PRODUCT REVISION
 as complying with the Florida
 Building Code
 Acceptance No. **10-0729.02**
 Expiration Date **03/14/2012**
 By: *[Signature]*
 Miami Dade Product Control
 Division

ILLUSTRATIVE DTLS. ONLY
EXT. OR INT. FINISHES
NOT BY ATRIUM

TYPICAL ANCHORS
SEE ELEV. FOR SPACING



TYPICAL ANCHORS
SEE ELEV. FOR SPACING

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#10 SMS

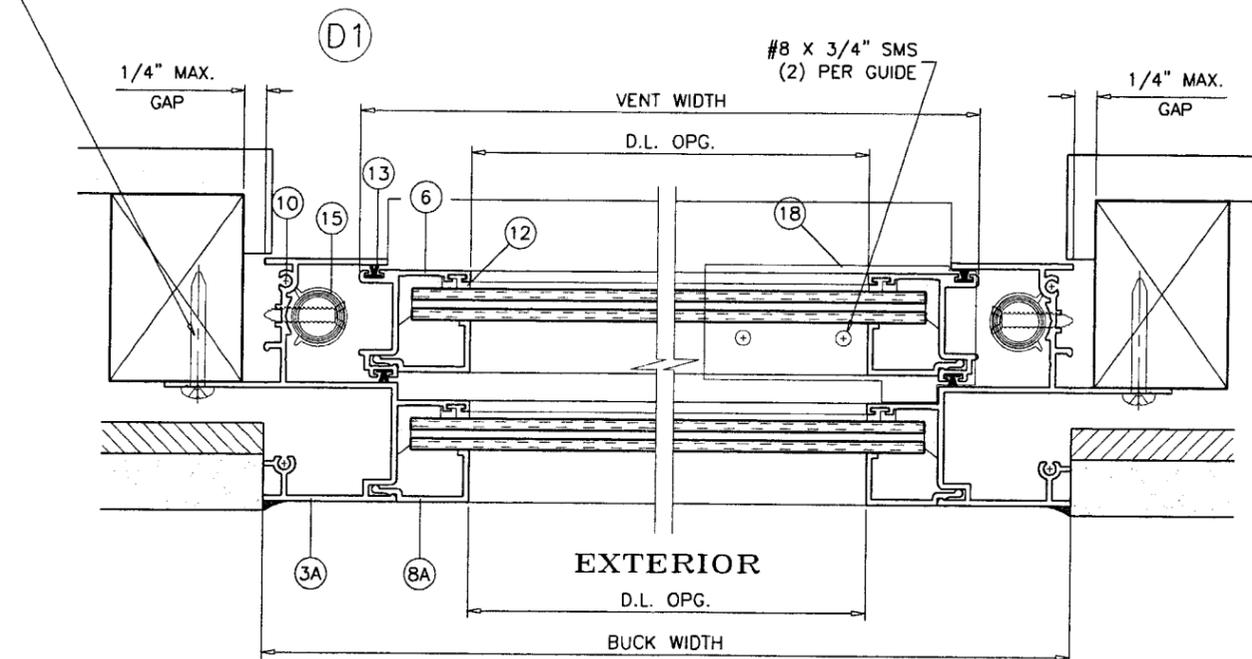
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD

#10 SMS OR SELF DRILLING SCREWS

INTO MIAMI-DADE COUNTY/HVHZ APPROVED MULLIONS (MIN. THK. = .090")
(NO SHIM SPACE)

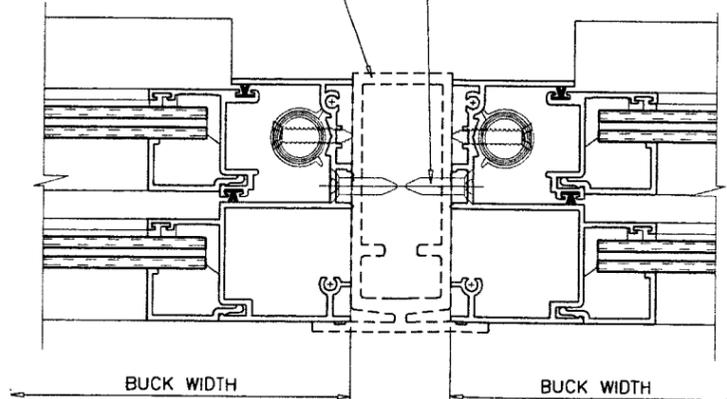
WOOD BUCKS, METAL STUDS AND METAL STRUCTURE NOT BY ATRIUM
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS
SEE ELEV. FOR SPACING



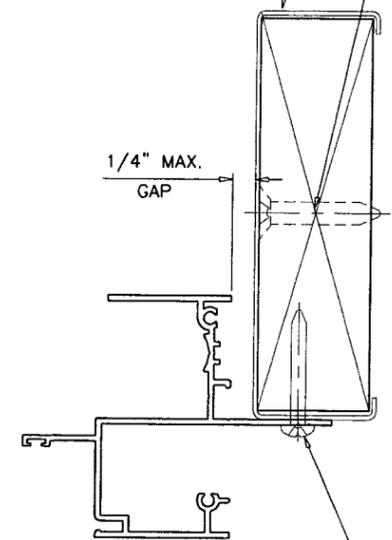
MIAMI-DADE COUNTY/HVHZ
APPR,D MULLION
SEE SEPARATE APPROVAL

TYPICAL ANCHORS
SEE ELEV. FOR SPACING



WOOD FILLER REQD.
WHEN STUD THICKNESS
IS LESS THAN 0.1 IN.

METAL STUD
STRUCTURE



TYPICAL ANCHORS
SEE ELEV. FOR SPACING

FIN FRAME WINDOW

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

NOV 24 2010
J.A.

PRODUCT REVISION
as complying with the Florida
Building Code
Acceptance No. 10-0729.02
Expiration Date 03/14/2012
By *Javad Ahmad*
Miami Dade Product Control
Division

SERIES MP5H/M41-51 ALUM S.H. WDW. (L.M.I./S.M.I.)

ATRIUM FLORIDA, INC.

9001 AMBASSADOR ROW
DALLAS, TX. 75247

TEL. (214) 637-2696 FAX. (214) 424-6734

no	date	by	description
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date: 12-26-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

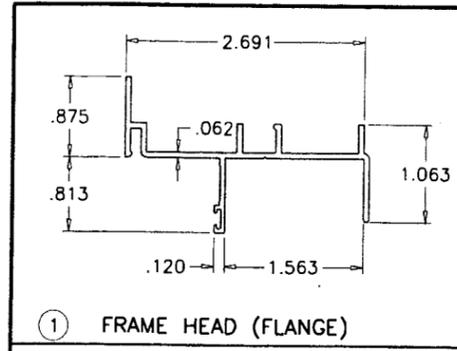
drawing no.
W01-81

sheet 7 of 9

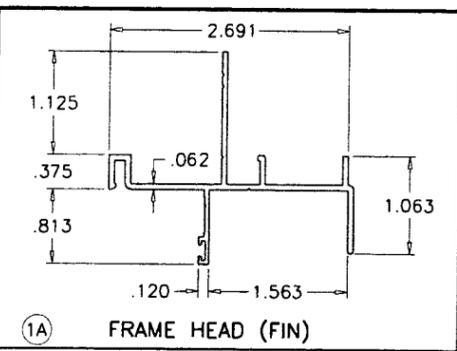
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174

TEL. (305) 264-8100 FAX. (305) 262-6978

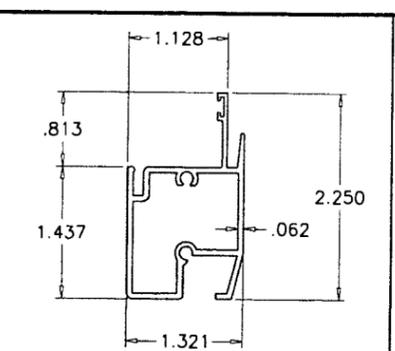
COMP-ANL\W01-81KL



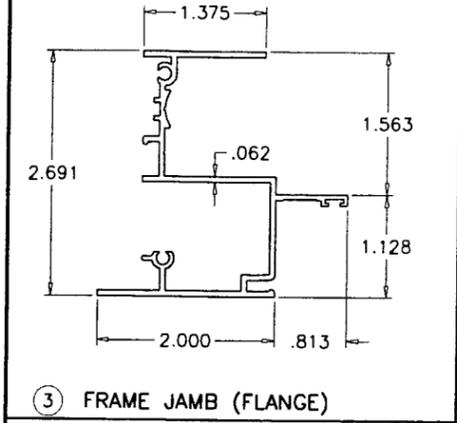
① FRAME HEAD (FLANGE)



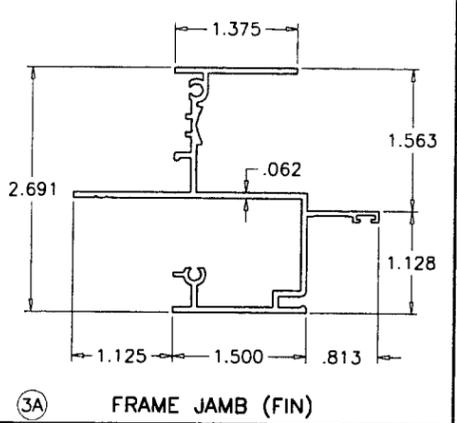
①A FRAME HEAD (FIN)



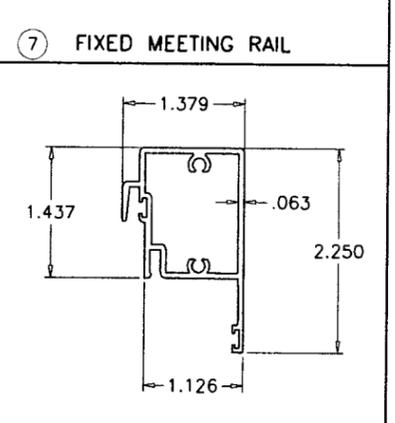
⑦ FIXED MEETING RAIL



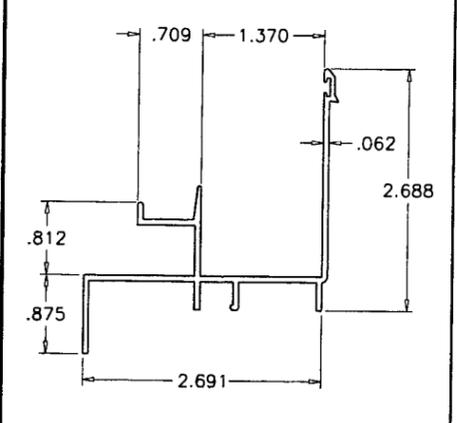
③ FRAME JAMB (FLANGE)



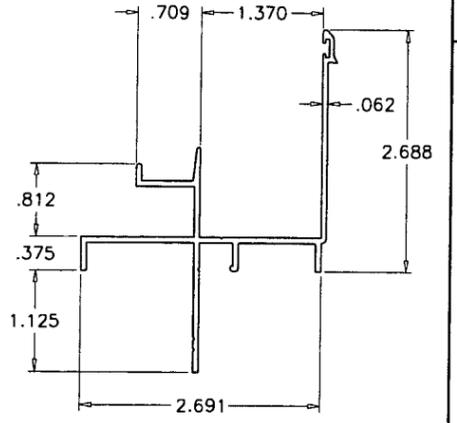
③A FRAME JAMB (FIN)



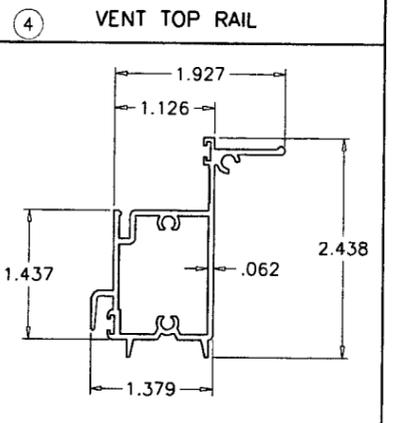
④ VENT TOP RAIL



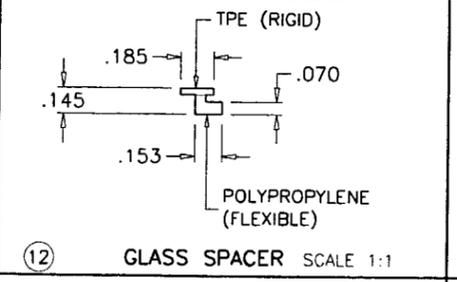
② FRAME SILL (FLANGE)



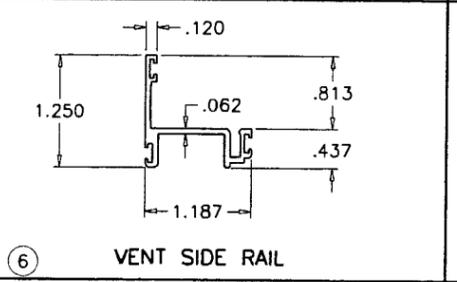
②A FRAME SILL (FIN)



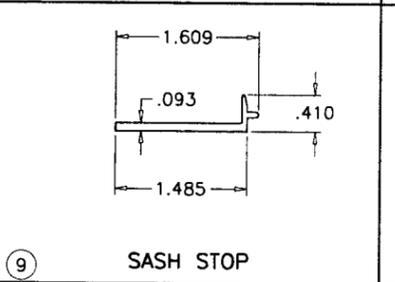
⑤ VENT BOTTOM RAIL



⑫ GLASS SPACER SCALE 1:1

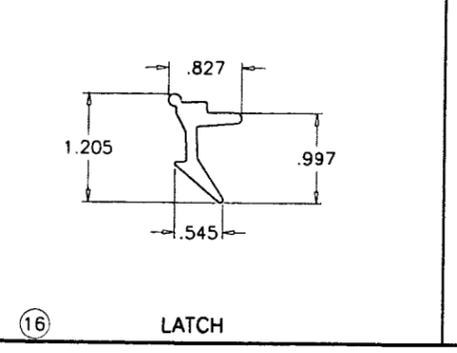


⑥ VENT SIDE RAIL

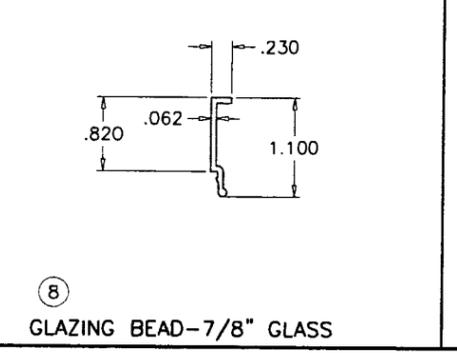


⑨ SASH STOP

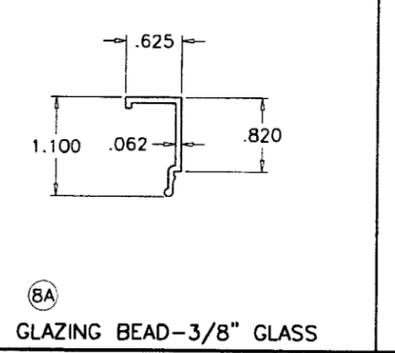
ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	KCO-241	1	FRAME HEAD (FLANGE)	6063-T6	-
1A	KCO-2051	1	FRAME HEAD (FIN)	6063-T6	-
2	KCO-2042	1	FRAME SILL (FLANGE)	6063-T6	-
2A	KCO-2052	1	FRAME SILL (FIN)	6063-T6	-
3	KCO-2043	2	FRAME JAMB (FLANGE)	6063-T6	-
3A	KCO-2053	2	FRAME JAMB (FIN)	6063-T6	-
4	KCO-2045	1	VENT TOP RAIL	6063-T6	-
5	KCO-2046	1	VENT BOTTOM RAIL	6063-T6	-
6	KCO-2047	2	VENT SIDE RAIL	6063-T6	-
7	KCO-2044	1	FIXED MEETING RAIL	6063-T6	-
8	RP-800	4/ LITE	GLAZING BEAD-7/8" GLASS	RIGID PVC	-
8A	RP-801	4/ LITE	GLAZING BEAD-3/8" GLASS	RIGID PVC	-
9	KCO-242	-	SASH STOP	6063-T6	-
9A	-	-	ALT. SASH STOP	PVC	-
10	-	AS REQD.	FRAME ASSEMBLY SCREW	-	#8 X 1" PPH SMS
11	-	AS REQD.	VENT ASSEMBLY SCREW	-	#8 X 1" PPH SMS
12	VTF-2009	AS REQD.	GLASS SPACER	SEE DTL.	POLYPROPYLENE - DUROMETER R78 TPE - DUROMETER 70 SHORE A
13	W23151NG	AS REQD.	FIN SEAL WEATHERSTRIPPING	-	ULTRAFAB .150X.187 OR EQUIV.
14	W23171NG	AS REQD.	FIN SEAL WEATHERSTRIPPING	-	ULTRAFAB .170X.187 OR EQUIV.
15	-	2	5/8" SPIRAL BALANCE	-	CALDWELL ULTRALIFT/SPIREX
16	L-049	2/ VENT	SNAP LATCH 3" LONG W/ SPRING	NYLON	9" FROM EACH END (HUGHES SUPPLY)
17	U-4333	AS REQD.	BULB WEATHERSTRIPPING	-	Q-LON .300X.190
18	13130/13031	2	VENT TOP GUIDE	NYLON	ASHLAND PRODUCTS
19	13129	2	VENT BOTTOM GUIDE	NYLON	ASHLAND PRODUCTS
20	KCO-2056-A	2	BALANCE BRACKET	6063-T6	-
21	LCS-068	2	WEEP HOLE COVER	NYLON	LCS PRECISION MOLDING



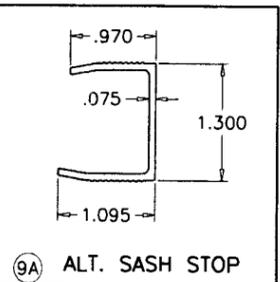
⑮ LATCH



⑧ GLAZING BEAD-7/8" GLASS



⑧A GLAZING BEAD-3/8" GLASS



⑨A ALT. SASH STOP

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3536
 NOV 24 2010

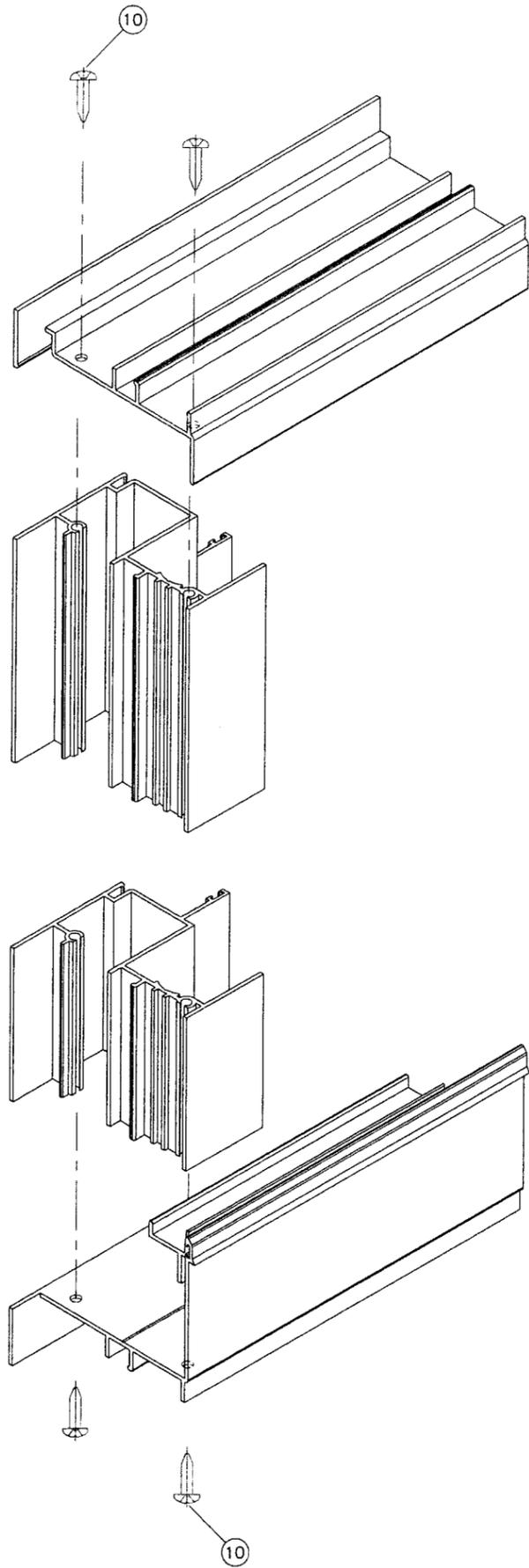
PRODUCT REVISE
 as complying with the Florida
 Building Code
 Acceptance No 10-0729.02
 Expiration Date 03/14/2012

afC
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W01-81KL

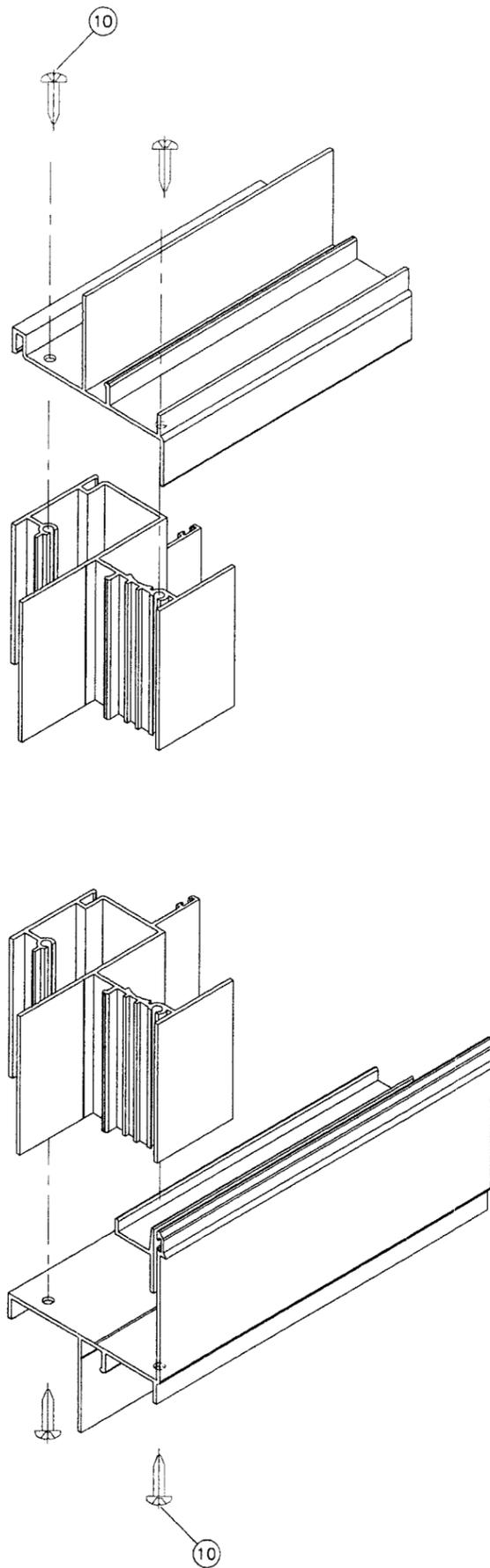
SERIES MP5H/M41-51 ALUM S.H. WDW. (L.M.I./S.M.I.)
ATRIUM FLORIDA, INC.
 9001 AMBASSADOR ROW
 DALLAS, TX. 75247
 TEL. (214) 637-2696 FAX. (214) 424-6734

revisions:	no	date	by	description
	B	02.07.07		UPDATED FOR 2004 FBC
	C	06.30.09		NO CHANGE THIS SHEET
	D	05.27.10		GENERAL REVISION
	E	10.12.10		REV. PER BCCO COMMENTS

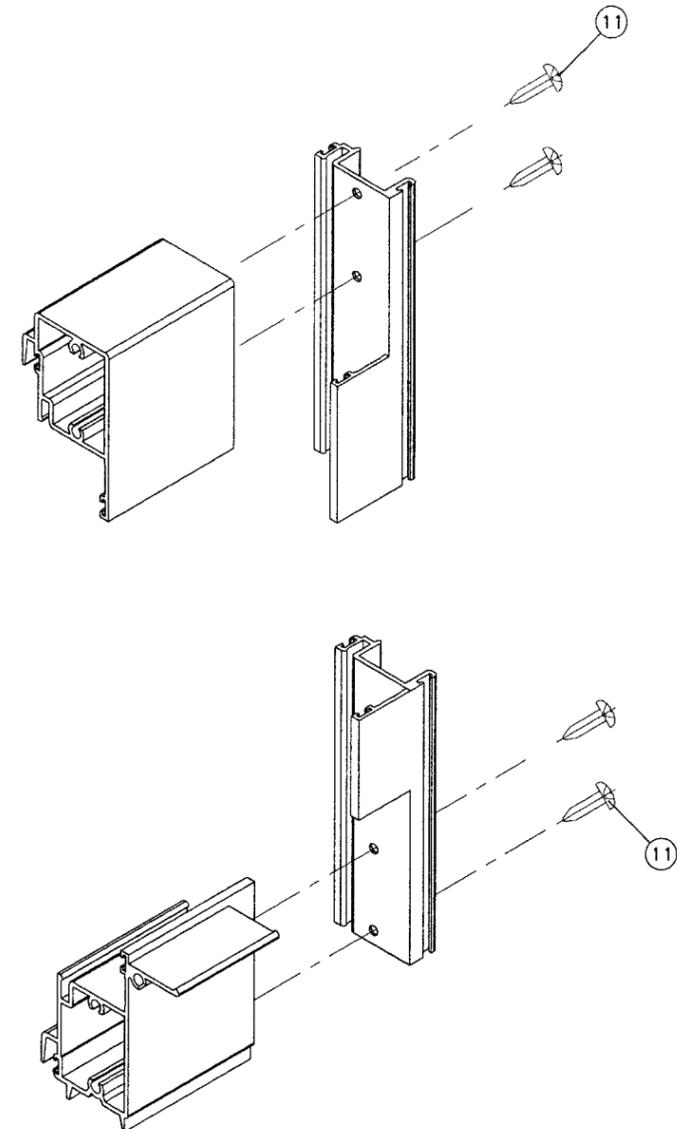
date: 12-26-01
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no. **W01-81**
 sheet 8 of 9



FRAME CORNERS (FLANGE)



FRAME CORNERS (FIN)



VENT CORNER DETAIL

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 NOV 24 2010
J.A.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 10-0729.02
 Expiration Date 03/14/2012
 By *Javad Ahmad*
 Miami Dade Product Control
 Division

af c

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sheet 9 of 9