



MIAMI-DADE COUNTY  
 BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)  
 BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA  
 PRODUCT CONTROL SECTION  
 11805 SW 26<sup>th</sup> Street, Room 208  
 Miami, Florida 33175-2474

**NOTICE OF ACCEPTANCE (NOA)**

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

**Commercial Door International, Inc.**  
**2412 Gellman Place**  
**Tampa, FL 33619**

**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 Section 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 Section (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 Section 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 "WS-4500" Aluminum Storefront - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W09-45**, titled "Series WS-4500 Aluminum Storefront (LMI)", sheets 1 through 9 of 9, dated 09/02/09 with revision "A" dated 04/16/10, 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 Section.

**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 supersedes NOA No. 10-0209.05** 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*  
 2/2/11

NOA No. 11-0127.01  
 Expiration Date: May 12, 2015  
 Approval Date: February 24, 2011  
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **W09-45**, titled "Series WS-4500 Aluminum Storefront (LMI)", sheets 1 through 9 of 9, dated 09/02/09 with revision "A" dated 04/16/10, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.  
*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*

**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) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of storefront, prepared by Architectural Testing, Inc., Test Report No. **ATI 91200.01-401-18**, dated 12/16/2009, signed and sealed by Joseph A. Reed, P. E.

*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 02/03/10, signed and sealed by Javad Ahmad, P. E.

**Complies with ASTM E1300-98/04**

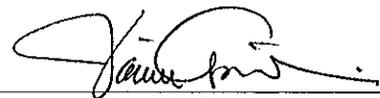
*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*

**D. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **10-0413.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/2010, expiring on 01/14/12.
2. Notice of Acceptance No. **08-0709.04** issued to Glasslam N.G.I., Inc. for their "**Safety-Plus II Laminated Glass**" dated 09/11/08, expiring on 08/07/13.
3. 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.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor

NOA No. 11-0127.01

Expiration Date: May 12, 2015

Approval Date: February 24, 2011

**Commercial Door International, Inc.**

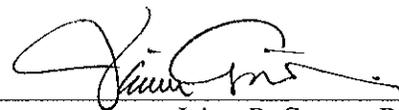
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

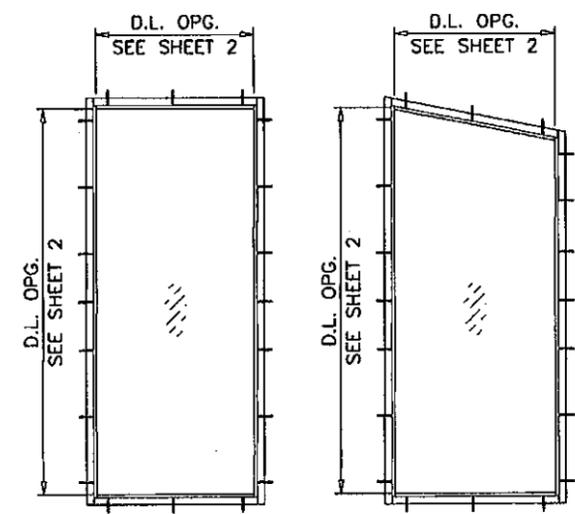
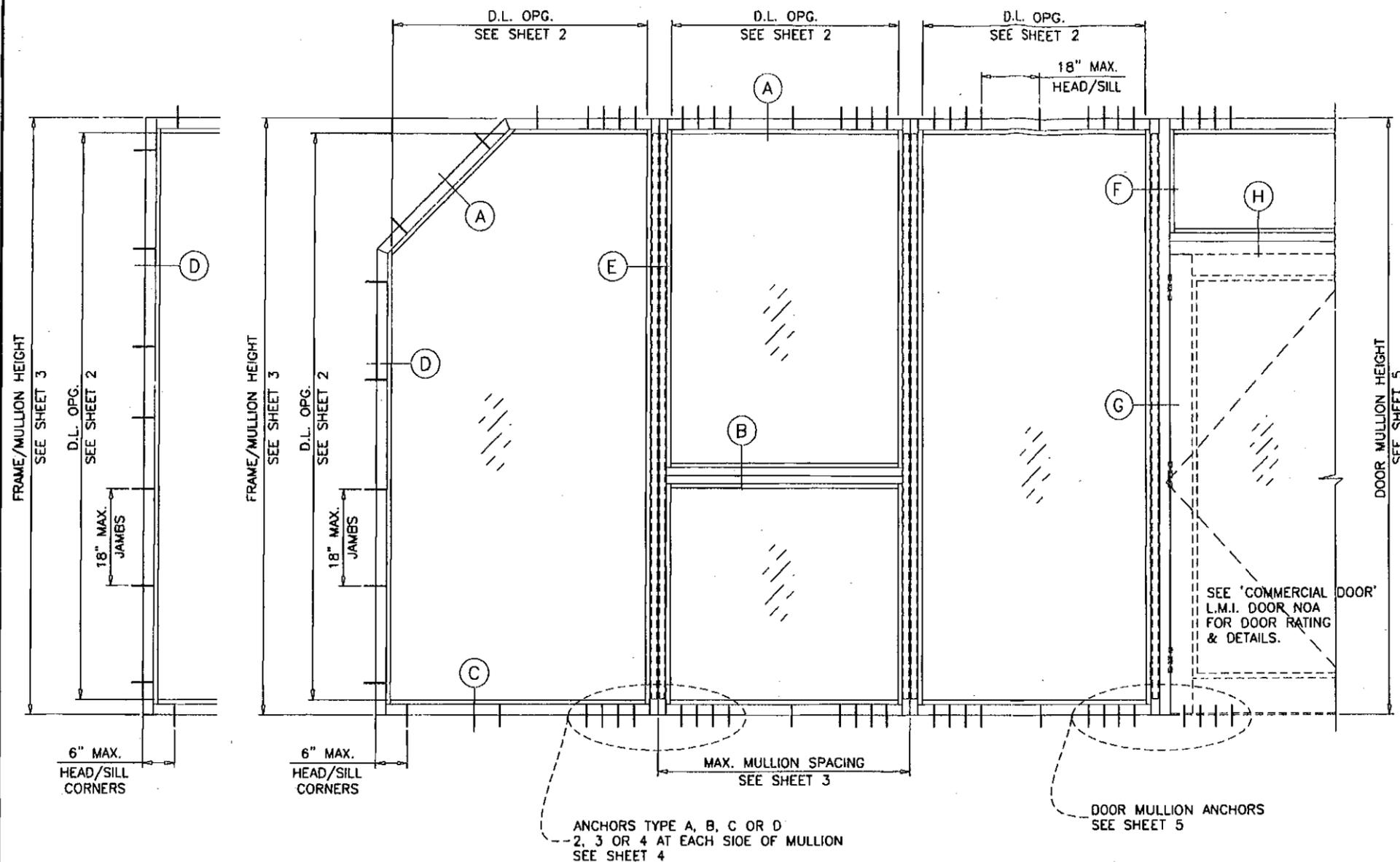
1. Statement letter of conformance and complying with FBC-2007, dated April 15, 2010, signed and sealed by Javad Ahmad, P. E.  
*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*
2. Statement letter of no financial interest, dated January 29, 2010, signed and sealed by Javad Ahmad, P. E.  
*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*
3. Laboratory addendum letter for Test Report No. **ATI 91200.01-401-18**, issued by Architectural Testing, Inc., dated April 15, 2010, signed and sealed by Joseph A. Reed, P. E.  
*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*
4. Laboratory compliance letter for Test Report No. **ATI 91200.01-401-18** issued by Architectural Testing, Inc., dated December 16, 2009, signed and sealed by Joseph A. Reed, P. E.  
*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*
5. Proposal No. **08-1491** issued by BCCO, dated January 21, 2009, signed by Ishaq Chanda, P. E.  
*(Submitted under previous NOA N<sup>o</sup>.10-0209.05)*

**G. OTHERS**

1. Notice of Acceptance No. **10-0209.05**, issued to Jeld-Wen, Inc (OR) for their Series "Series "WS-4500 Aluminum Storefront - LMI", approved on 05/12/10 and expiring on 05/12/15.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 11-0127.01  
Expiration Date: May 12, 2015  
Approval Date: February 24, 2011



TYPICAL ELEVATIONS SINGLE LITE

**SERIES WS-4500  
ALUMINUM 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.

**TYPICAL ELEVATION**

**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 CHARTS ON SHEET 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. THIS VALUE SHOULD MEET OR EXCEED THE DESIGN WIND LOAD REQUIREMENT OBTAINED IN STEP 1 ABOVE.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No **11-012701**  
Expiration Date **05/12/2015**  
By *[Signature]*  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
*[Signature]*  
APR 19 2010

Approved as complying with the Florida Building Code  
Date **05/12/2010**  
NOAH **10-0269.05**  
Miami Dade Product Control  
Division *[Signature]*  
By *[Signature]*

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-8978  
STORE \W09-45CDI

**ATC**

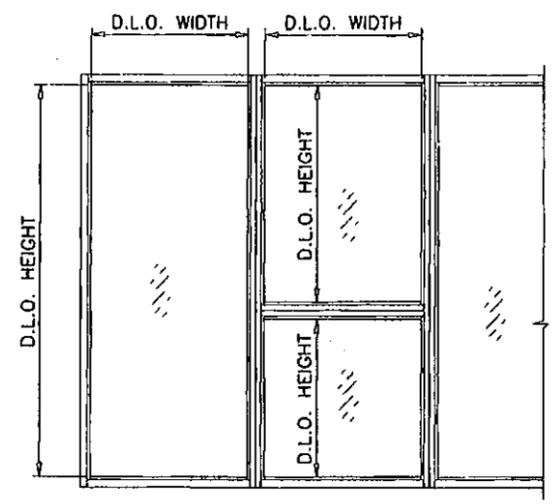
WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL. INC.**  
2412 SOUTH GELMAN PLACE  
TAMPA, FL. 33619  
TEL (813) 247-7700 FAX (813) 247-7771

no.	date	description
1	04.16.10	REV. PER BCCO COMMENTS

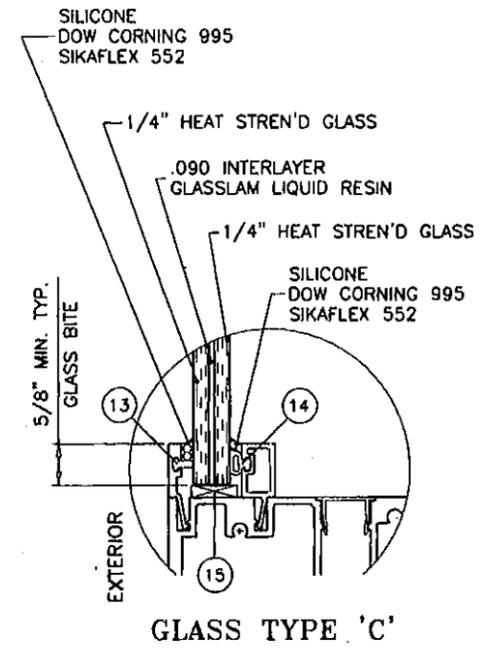
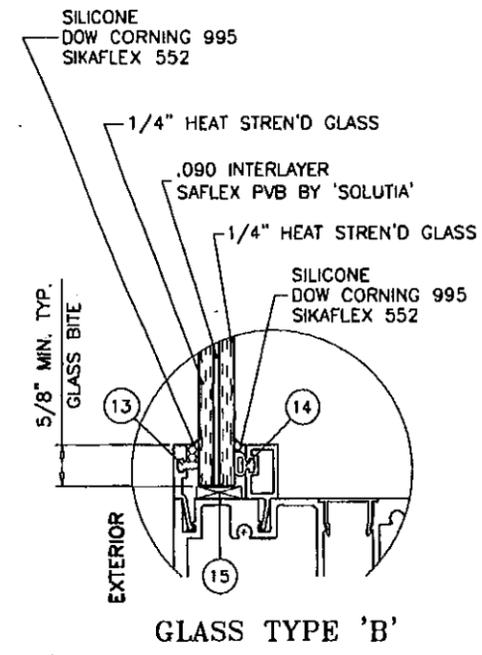
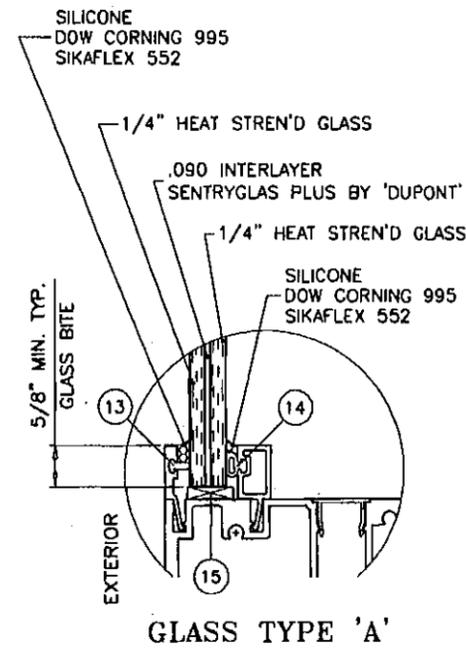
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dr. by: HAMID  
chk. by:

drawing no. **W09-45**  
sheet 1 of 9

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPES 'A', 'B' & 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(-)
30"	84"	150.0
36"		150.0
42"		137.1
48"		120.0
54"		106.7
60"		96.0
30"	90"	150.0
36"		150.0
42"		137.1
48"		120.0
54"		106.7
60"		96.0
30"	96"	150.0
36"		150.0
42"		137.1
48"		120.0
54"		106.7
60"		96.0
30"	102"	150.0
36"		150.0
42"		137.1
48"		120.0
54"		106.7
60"		96.0
30"	108"	150.0
36"		150.0
42"		136.2
48"		120.0
54"		106.7
60"		96.0
30"	114"	150.0
36"		150.0
42"		134.5
48"		120.0
54"		106.7
60"		96.0
30"	120"	150.0
36"		150.0
42"		133.0
48"		120.0
54"		106.7
60"		96.0



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



**GLAZING OPTIONS**

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-0127.01  
Expiration Date 05/12/2015  
By [Signature]  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
[Signature]  
APR 19 2010

Approved as complying with the  
Florida Building Code  
Date 05/12/2010  
NOA# 10-0209.05  
Miami Dade Product Control  
Division  
By [Signature]

GLASS

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W09-45CDI

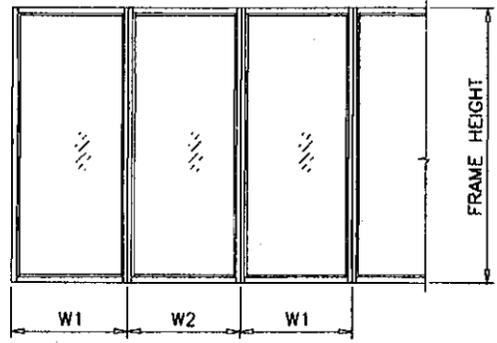
WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL. INC.**  
2412 SOUTH GELMAN PLACE  
TAMPA, FL. 33619  
TEL. (813) 247-7700 FAX. (813) 247-7771

NO	DATE	DESCRIPTION	REV. PER	REVISIONS:
A	04.16.10			

date: 09-02-09  
scale: 3/8" = 1"  
dr. by: HAMID  
chk. by:

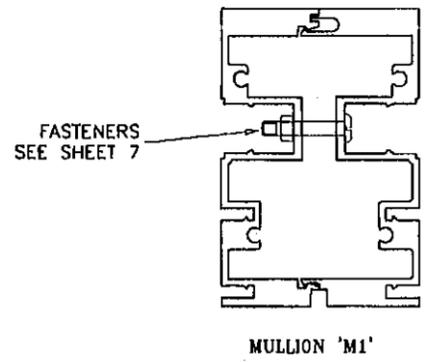
drawing no.  
**W09-45**  
sheet 2 of 9

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		MULL 'M1'		MULL 'M2'		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
30"	84"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		120.0	120.0	150.0	150.0	
48"		120.0	120.0	150.0	150.0	
54"		120.0	120.0	150.0	150.0	
60"		120.0	120.0	150.0	150.0	
30"	90"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		120.0	120.0	150.0	150.0	
48"		120.0	120.0	150.0	150.0	
54"		120.0	120.0	150.0	150.0	
60"		113.3	113.3	150.0	150.0	
30"	96"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		120.0	120.0	150.0	150.0	
48"		115.6	115.6	150.0	150.0	
54"		105.3	105.3	150.0	150.0	
60"		97.5	97.5	143.2	150.0	
30"	102"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		113.8	113.8	150.0	150.0	
48"		101.4	101.4	148.9	150.0	
54"		92.1	92.1	135.2	144.7	
60"		120.0	120.0	150.0	150.0	
30"	108"	116.1	116.1	150.0	150.0	
36"		100.9	100.9	148.1	150.0	
42"		89.7	89.7	131.7	141.0	
48"		120.0	120.0	150.0	150.0	
30"		114"	103.8	103.8	150.0	150.0
36"			90.1	90.1	132.3	141.5
42"	79.9		79.9	117.4	125.6	
48"	110.2		110.2	150.0	150.0	
30"	120"		92.9	92.9	136.4	146.0
36"			80.7	80.7	118.5	126.8
42"		71.7	71.7	105.3	112.7	
48"						

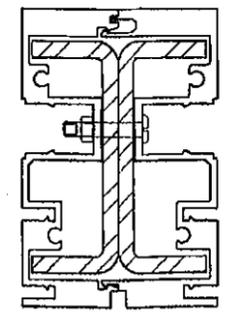


$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

NOTE:  
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



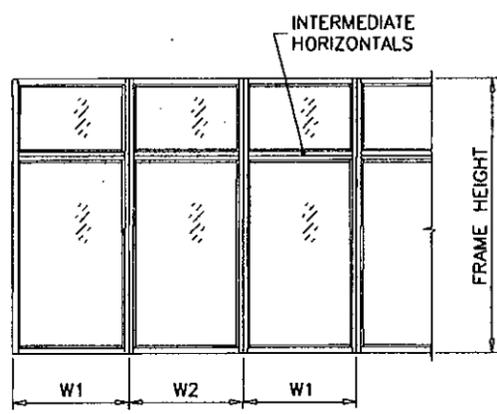
MULLION 'M1'



MULLION 'M2'

MULLIONS

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		MULL 'M1'		MULL 'M2'		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
30"	84"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		120.0	120.0	150.0	150.0	
48"		120.0	120.0	150.0	150.0	
54"		120.0	120.0	150.0	150.0	
60"		111.0	111.0	150.0	150.0	
30"	90"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		120.0	120.0	150.0	150.0	
48"		120.0	120.0	150.0	150.0	
54"		107.4	107.4	150.0	150.0	
60"		96.7	96.7	142.0	150.0	
30"	96"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		120.0	120.0	150.0	150.0	
48"		106.2	106.2	150.0	150.0	
54"		94.4	94.4	138.7	148.4	
60"		85.0	85.0	124.8	133.6	
30"	102"	120.0	120.0	150.0	150.0	
36"		120.0	120.0	150.0	150.0	
42"		107.5	107.5	150.0	150.0	
48"		94.1	94.1	138.2	147.9	
54"		83.6	83.6	122.8	131.5	
60"		120.0	120.0	150.0	150.0	
30"	108"	111.9	111.9	150.0	150.0	
36"		95.9	95.9	140.9	150.0	
42"		83.9	83.9	123.3	131.9	
48"		120.0	120.0	150.0	150.0	
30"		114"	100.4	100.4	147.5	150.0
36"			86.1	86.1	126.4	135.3
42"	75.3		75.3	110.6	118.4	
48"	107.7		107.7	150.0	150.0	
30"	120"		89.8	89.8	131.9	141.1
36"			77.0	77.0	113.0	121.0
42"		67.3	67.3	98.9	105.9	
48"						



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

NOTE:  
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

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

APR 19 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 11-012701  
Expiration Date 05/12/2015

By Javad Ahmad  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date 05/12/2010  
NOA# 16-0209.05  
Miami Dade Product Control  
Division Javad Ahmad

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W09-45CDI

**AL-FAROOQ**

WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL. INC.**  
2412 SOUTH GELMAN PLACE  
TAMPA, FL. 33619  
TEL. (813) 247-7700 FAX. (813) 247-7771

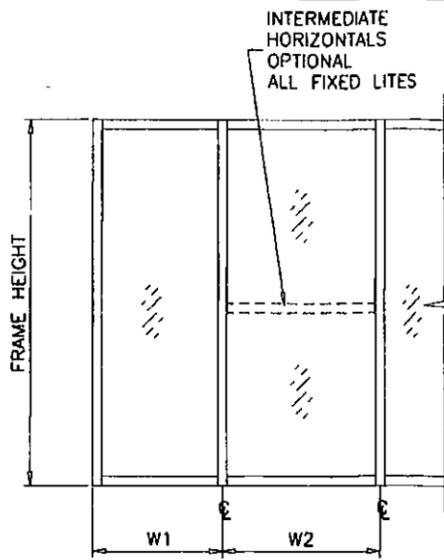
revisions:	no.	date	by	description
	A	04.16.10		REV. PER BCO COMMENTS

date: 09-02-09  
scale: -  
dr. by: HAMID  
chk. by:

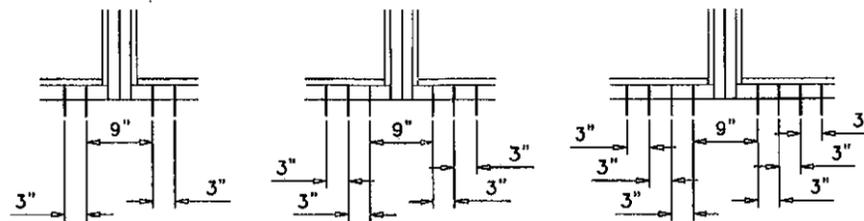
drawing no.  
**W09-45**  
sheet 3 of 9

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)										
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	B4	C2	C3	C4
30"	84"	135.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36"		113.1	150.0	150.0	137.1	150.0	150.0	150.0	150.0	150.0
42"		97.0	145.5	150.0	117.6	150.0	150.0	150.0	150.0	150.0
48"		84.9	127.3	150.0	102.9	150.0	150.0	136.9	150.0	150.0
54"		75.4	113.1	150.0	91.4	137.1	150.0	121.7	150.0	150.0
60"		67.9	101.8	135.8	82.3	123.4	150.0	109.5	150.0	150.0
30"	90"	126.7	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36"		105.6	150.0	150.0	128.0	150.0	150.0	150.0	150.0	150.0
42"		90.5	135.8	150.0	109.7	150.0	150.0	146.0	150.0	150.0
48"		79.2	118.8	150.0	96.0	144.0	150.0	127.7	150.0	150.0
54"		70.4	105.6	140.8	85.3	128.0	150.0	113.5	150.0	150.0
60"		63.4	95.0	126.7	76.8	115.2	150.0	102.2	150.0	150.0
30"	96"	118.8	150.0	150.0	144.0	150.0	150.0	150.0	150.0	150.0
36"		99.0	148.5	150.0	120.0	150.0	150.0	150.0	150.0	150.0
42"		84.9	127.3	150.0	102.9	150.0	150.0	136.9	150.0	150.0
48"		74.3	111.4	148.5	90.0	135.0	150.0	119.8	150.0	150.0
54"		66.0	99.0	132.0	80.0	120.0	150.0	106.4	150.0	150.0
60"		59.4	89.1	118.8	72.0	108.0	150.0	95.8	150.0	150.0
30"	102"	111.8	150.0	150.0	135.5	150.0	150.0	150.0	150.0	150.0
36"		93.2	139.8	150.0	112.9	150.0	150.0	150.0	150.0	150.0
42"		79.9	119.8	150.0	96.8	145.2	150.0	128.8	150.0	150.0
48"		69.9	104.8	139.8	84.7	127.1	150.0	112.7	150.0	150.0
54"		62.1	93.2	124.2	75.3	112.9	150.0	100.2	150.0	150.0
30"	108"	105.6	150.0	150.0	128.0	150.0	150.0	150.0	150.0	150.0
36"		88.0	132.0	150.0	106.7	150.0	150.0	141.9	150.0	150.0
42"		75.4	113.1	150.0	91.4	137.1	150.0	121.7	150.0	150.0
48"		66.0	99.0	132.0	80.0	120.0	150.0	106.4	150.0	150.0
30"		114"	100.0	150.0	150.0	121.3	150.0	150.0	150.0	150.0
36"	83.4		125.1	150.0	101.1	150.0	150.0	134.5	150.0	150.0
42"	71.5		107.2	142.9	86.6	129.9	150.0	115.2	150.0	150.0
48"	62.5		93.8	125.1	75.8	113.7	150.0	100.8	150.0	150.0
30"	120"	95.0	142.6	150.0	115.2	150.0	150.0	150.0	150.0	150.0
36"		79.2	118.8	150.0	96.0	144.0	150.0	127.7	150.0	150.0
42"		67.9	101.8	135.8	82.3	123.4	150.0	109.5	150.0	150.0
48"		59.4	89.1	118.8	72.0	108.0	144.0	95.8	143.7	150.0

NOTE:  
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



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



A2, B2, C2

A3, B3, C3

A4, B4, C4

ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ANCHORS

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
  
APR 19 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 11-02-701  
Expiration Date 05/12/2015  
By *[Signature]*  
Miami Dade Product Control

Approved as complying with the  
Florida Building Code  
Date 05/12/2010  
NOA# 10-0209.05  
Miami Dade Product Control  
Division  
By *[Signature]*

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE/W09-45CDI

**ALF**

WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL. INC.**  
2412 SOUTH GELMAN PLACE  
TAMPA, FL 33619  
TEL. (813) 247-7700 FAX. (813) 247-7771

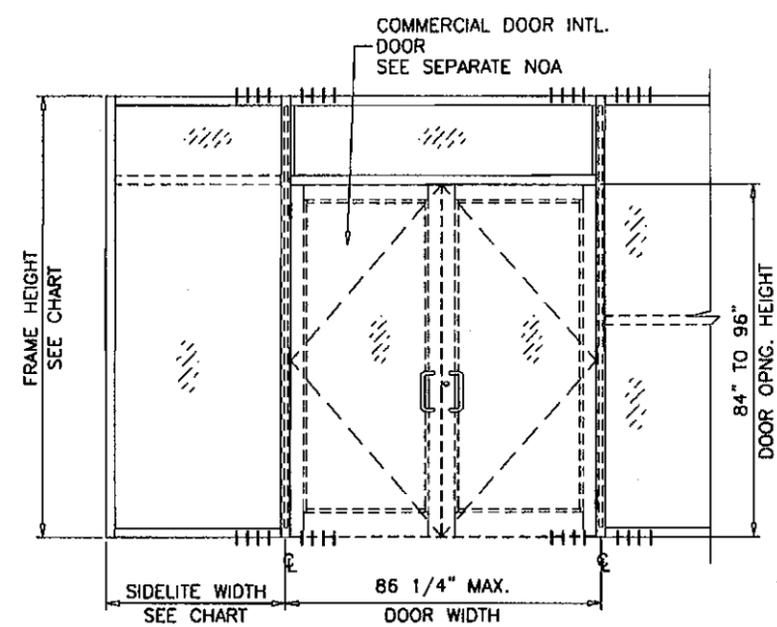
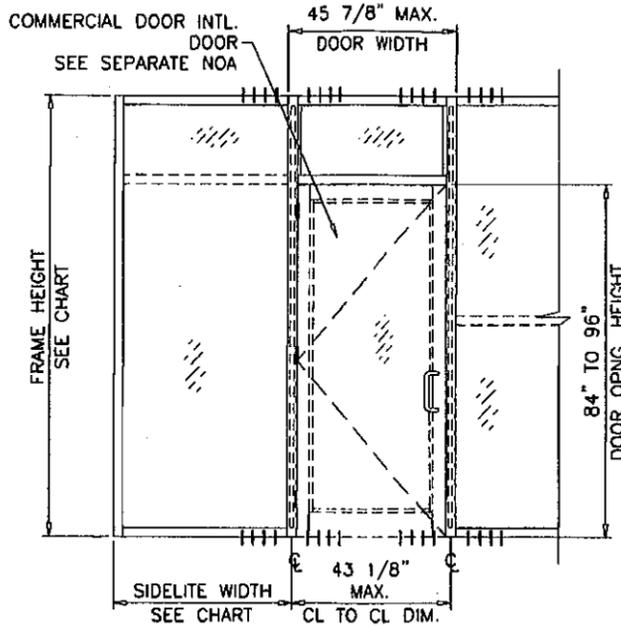
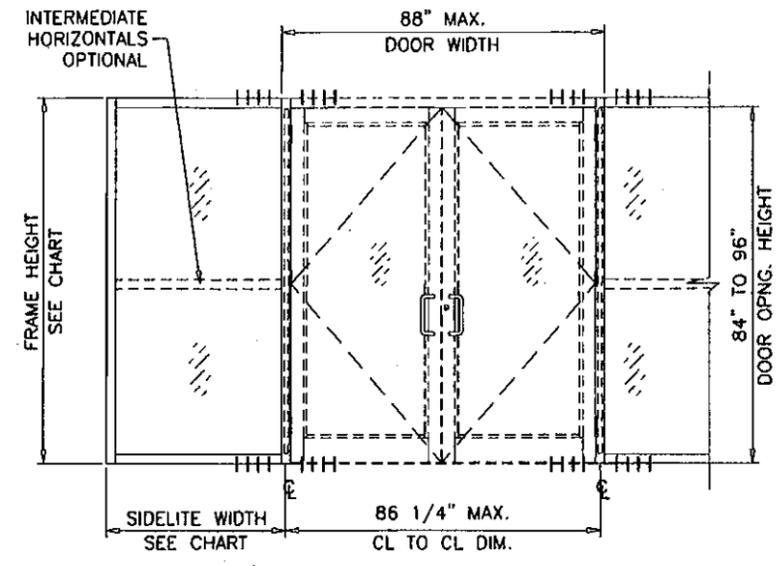
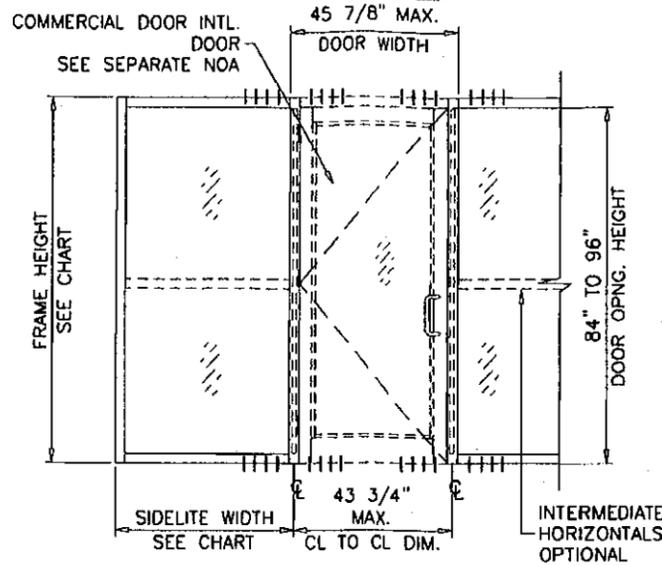
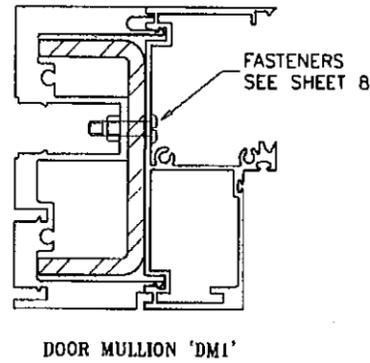
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revisions:

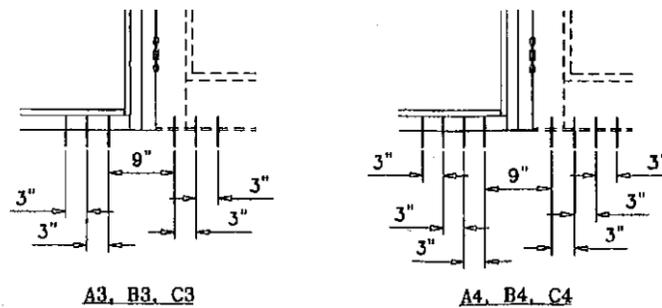
date: 09-02-09  
scale: -  
dr. by: HAMID  
chk. by:

drawing no. **W09-45**  
sheet 4 of 9

DOOR MULLION LOAD CAPACITY-PSF			
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL 'DM1'	
		EXT.(+)	INT.(-)
30	102	120.0	120.0
36		120.0	120.0
42		120.0	120.0
48		120.0	120.0
54		120.0	120.0
30	108	120.0	120.0
36		120.0	120.0
42		120.0	120.0
48		120.0	120.0
30	114	120.0	120.0
36		120.0	120.0
42		120.0	120.0
48		114.4	114.4
30	120	119.3	119.3
36		111.9	111.9
42		105.4	105.4
48		99.6	99.6



DOOR MULLION ANCHOR LOAD CAPACITY - PSF							
EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'		ANCHORS TYPE 'C'	
SIDELITE WIDTH	FRAME HEIGHT	A3	A4	B3	B4	C3	C4
30"	102"	90.2	120.0	109.4	120.0	120.0	120.0
36"		85.6	114.2	103.8	120.0	120.0	120.0
42"		81.5	108.6	98.7	120.0	120.0	120.0
48"		77.7	103.6	94.2	120.0	120.0	120.0
54"		74.3	99.0	90.0	120.0	120.0	120.0
30"	108"	86.9	115.9	105.4	120.0	120.0	120.0
36"		82.4	109.9	99.9	120.0	120.0	120.0
42"		78.3	104.4	94.9	120.0	120.0	120.0
48"		74.6	99.5	90.5	120.0	120.0	120.0
30"	114"	83.9	111.8	101.6	120.0	120.0	120.0
36"		79.4	105.9	96.3	120.0	120.0	120.0
42"		75.4	100.6	91.4	120.0	120.0	120.0
48"		71.8	95.8	87.1	116.1	115.8	120.0
30"	120"	81.0	108.0	98.2	120.0	120.0	120.0
36"		76.6	102.2	92.9	120.0	120.0	120.0
42"		72.7	97.0	88.2	117.6	117.3	120.0
48"		69.2	92.3	83.9	111.8	111.6	120.0



ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

PRODUCT REVISED as complying with the Florida Building Code

Acceptance No **11-0127.01**

Expiration Date **05/12/2015**

By *[Signature]*  
Miami Dade Product Control

**DOOR-WINDOW WALL TRANSITION MULLION**

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

*[Signature]*  
APR 19 2010

Approved as complying with the Florida Building Code

Date **05/12/2010**

NOA# **12-2209.05**

Miami Dade Product Control Division

By *[Signature]*

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
12335 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W09-45CDI



WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)

**COMMERCIAL DOOR INTL. INC.**  
2412 SOUTH GELMAN PLACE  
TAMPA, FL. 33619  
TEL. (813) 247-7700 FAX. (813) 247-7771

no	date	description	REV. PER	COMMENTS
A	04.16.10			

date: 09-02-09

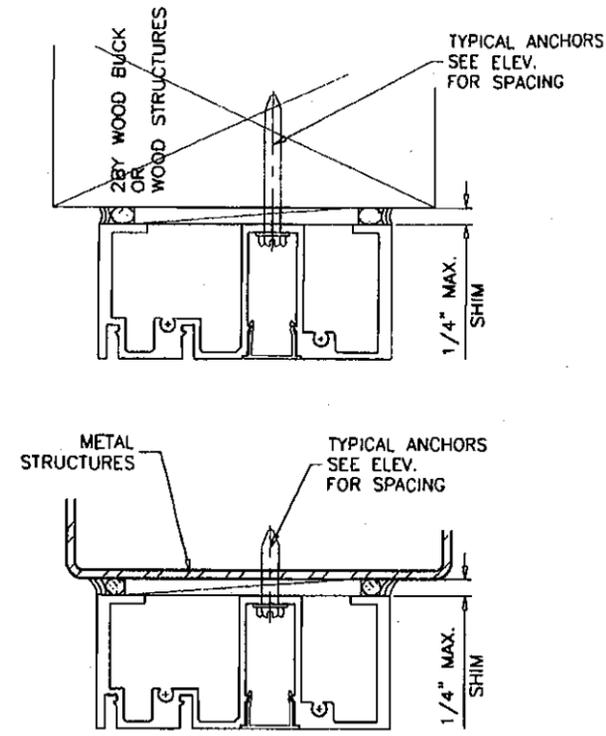
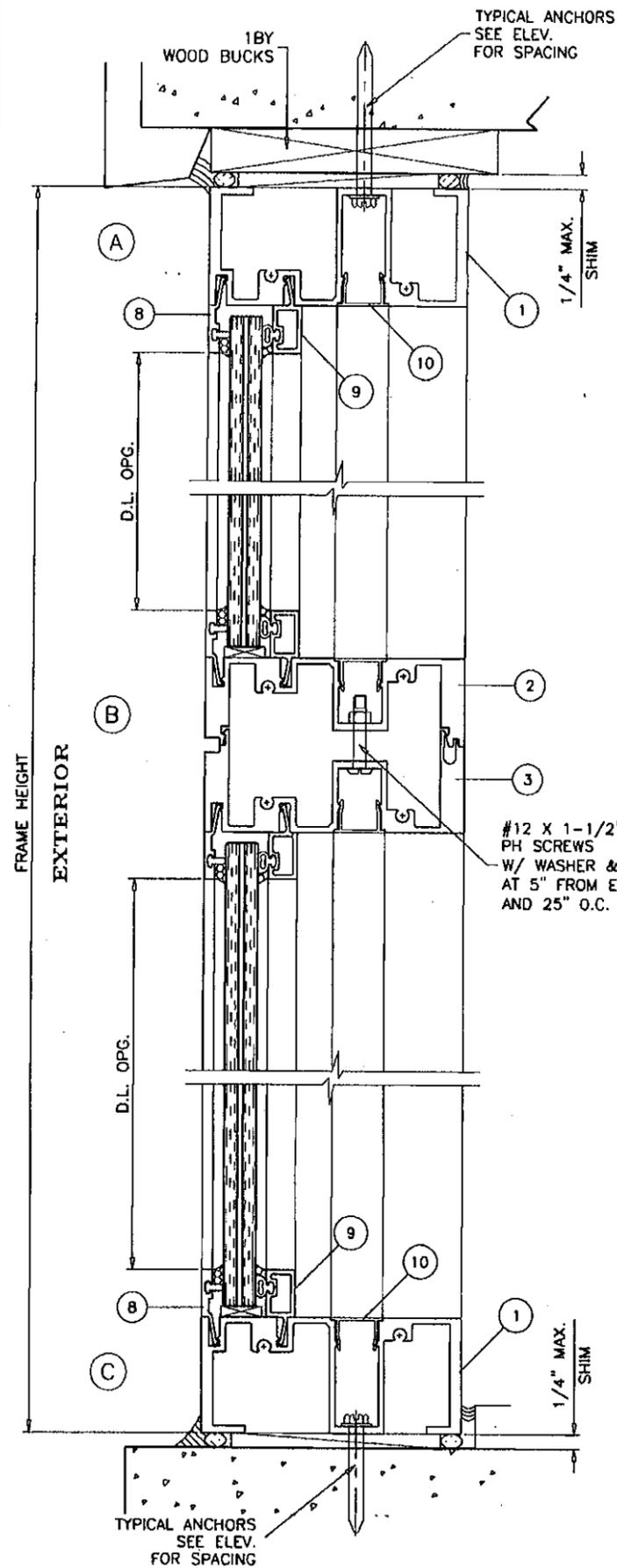
scale: -

dr. by: HAMID

chk. by:

drawing no. **W09-45**

sheet 5 of 9



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

**TYPE 'A'**  
 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-3/8" MIN. PENETRATION INTO WOOD  
 THRU 1BY WOOD BUCKS INTO CONCRETE OR MASONRY WITH 1-1/4" MIN. EMBED INTO CONCRETE OR MASONRY  
 DIRECTLY INTO MASONRY WITH 1-1/4" MIN. EMBED INTO MASONRY

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.

**TYPE 'B'**  
 1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE = 3" MIN.

**TYPE 'C'**  
 #14 SMS OR SELF DRILLING SCREWS ST/ST  
 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)

**ANCHOR EDGE DISTANCES**  
 INTO METAL STRUCTURE = 1/2" 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, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH DOW CORNING 795 SEALANT.

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 11-0127.01  
 Expiration Date 05/12/2015  
 By *[Signature]*  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
*[Signature]*  
 APR 19 2010

Approved as complying with the Florida Building Code  
 Date 05/12/2010  
 NOA# 10-0209.05  
 Miami Dade Product Control  
 Division *[Signature]*

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1236 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W09-45CDI

**ALF**

WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL INC.**  
 2412 SOUTH GELMAN PLACE  
 TAMPA, FL. 33619  
 TEL. (813) 247-7700 FAX. (813) 247-7771

no	date	description	REV. PER BCCO COMMENTS
A	04.16.10		

date: 09-02-09  
 scale: 3/8" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no. **W09-45**  
 sheet 6 of 9

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE \W09-45CDI

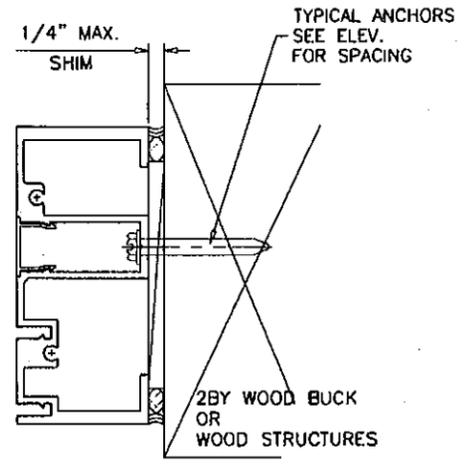
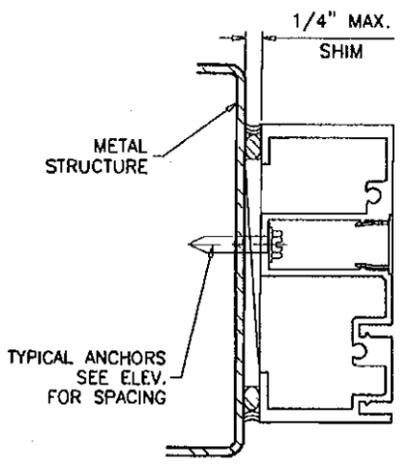
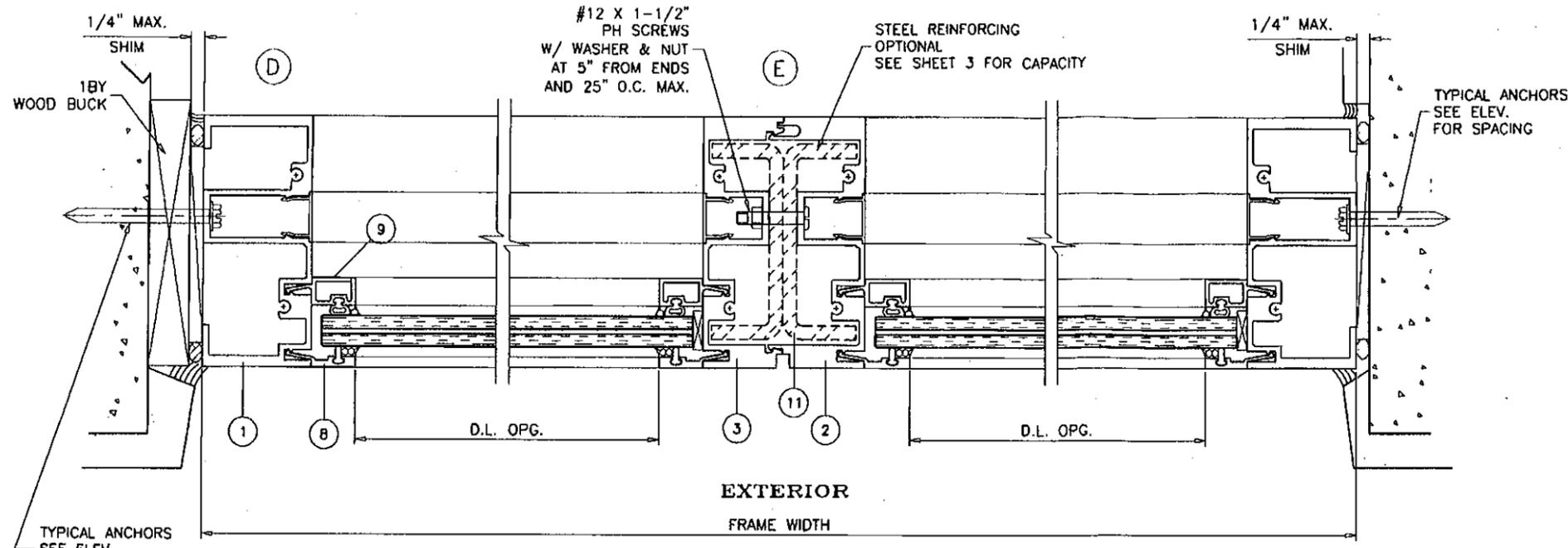


WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL. INC.**  
 2412 SOUTH GELMAN PLACE  
 TAMPA, FL. 33619  
 TEL. (813) 247-7700 FAX. (813) 247-7771

no	date	by	description
A	04.16.10		NO CHANGE THIS SHEET

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dr. by:	HAMID
chk. by:	

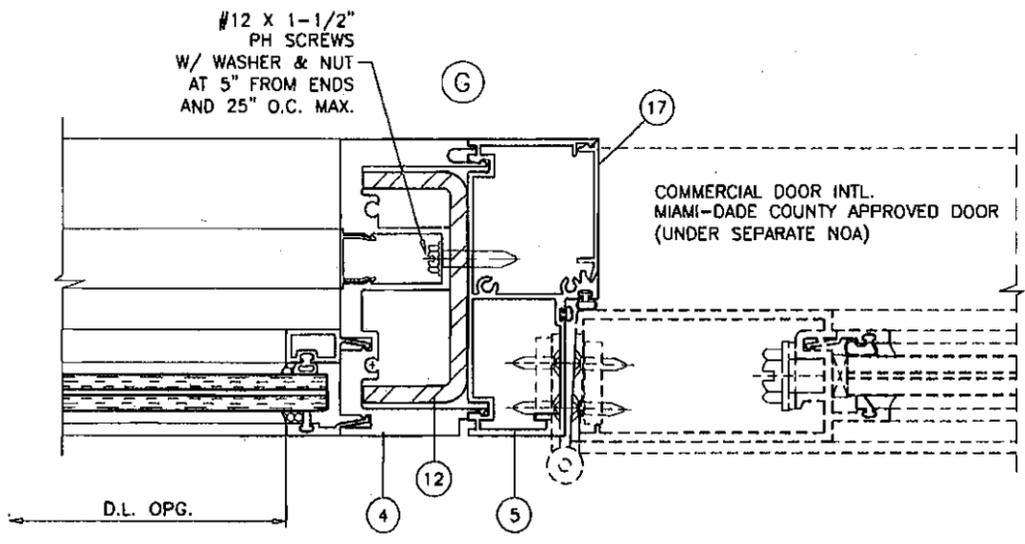
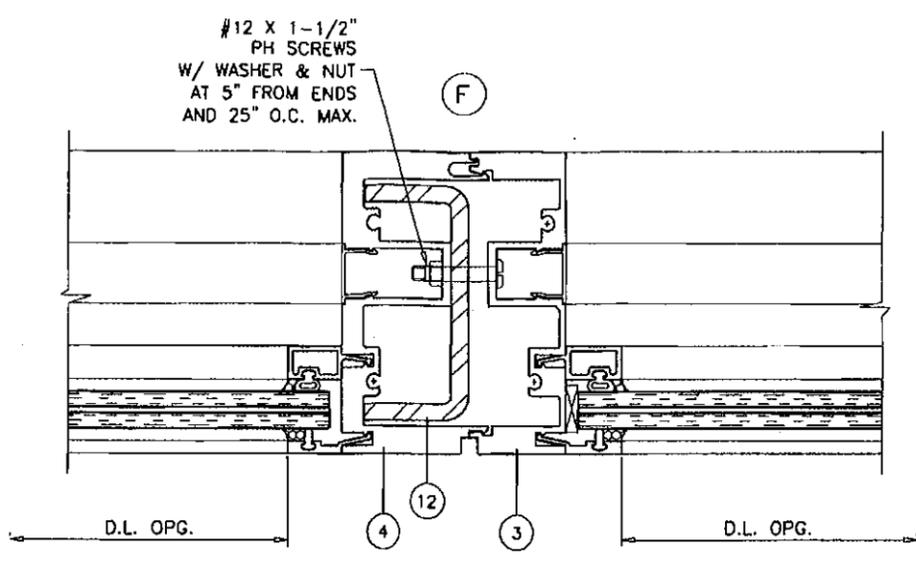
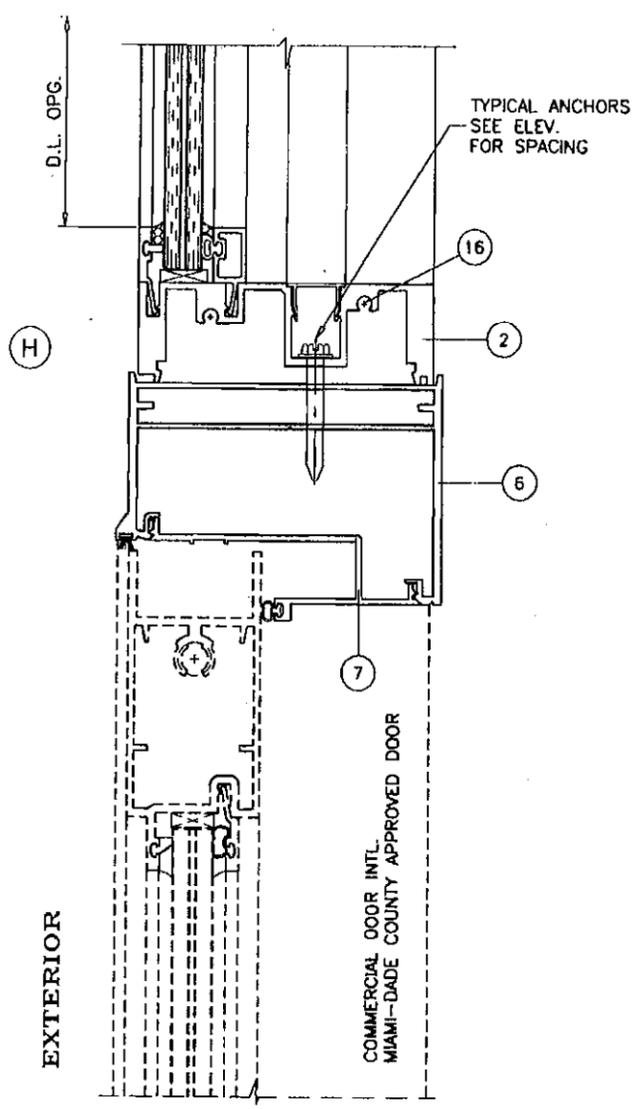
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**W09-45**  
 sheet 7 of 9



PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. **11-02701**  
 Expiration Date **05/12/2015**  
 By *[Signature]*  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70582  
 C.A.N. 3538  
*JA*  
 APR 19 2010

Approved as complying with the  
 Florida Building Code  
 Date **05/12/2010**  
 NOA# **10-0209-05**  
 Miami Dade Product Control  
 Division  
 By *[Signature]*



SEE SEPARATE NOA FOR DOOR DETAILS, DESIGN LOAD CAPACITY AND DOOR ANCHORS. LOWER VALUES FROM DOORS NOA OR STOREFRONT SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
 APR 19 2010

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 11-0127-01  
 Expiration Date 05/12/2015  
 By *[Signature]*  
 Miami Dade Product Control

Approved as complying with the  
 Florida Building Code  
 Date 05/12/2010  
 NOA# 10-0209-05  
 Miami Dade Product Control  
 Division  
 By *[Signature]*

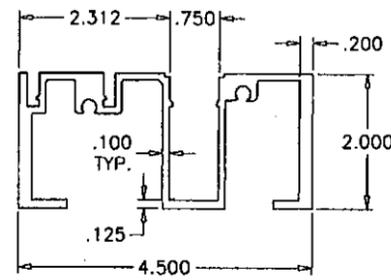
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE\W09-45CDI

WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL. INC.**  
 2412 SOUTH GELMAN PLACE  
 TAMPA, FL. 33619  
 TEL. (813) 247-7700 FAX. (813) 247-7771

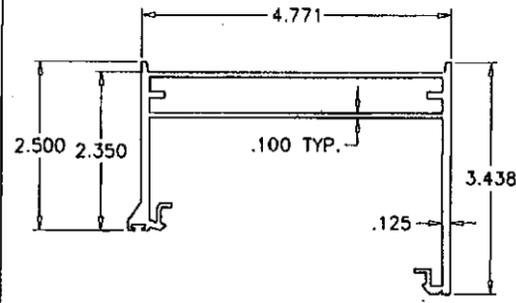
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 chk. by:

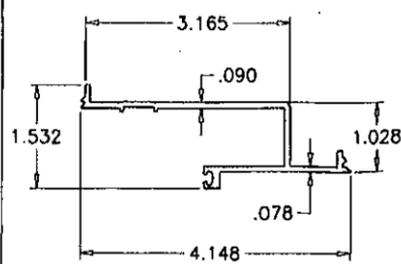
drawing no.  
**W09-45**  
 sheet 8 of 9



1 FRAME HEAD/SILL/JAMB



6 DOOR HORIZONTAL ADAPTER



7 DOOR ADAPTER INSERT

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	BA 5566	AS REQD.	FRAME HEAD/SILL/JAMB	6063-T6	-
2	BA 5564	AS REQD.	MALE MULLION/HORIZONTAL	6063-T6	-
3	BA 5565	AS REQD.	FEMALE MULLION/HORIZONTAL	6063-T6	-
4	BA 5568	AS REQD.	DOOR MULLION	6063-T6	-
5	FH-04011	AS REQD.	DOOR MULLION ADAPTER	6063-T6	-
6	FH-03613	AS REQD.	DOOR HORIZONTAL ADAPTER	6063-T6	-
7	FS-01058	AS REQD.	DOOR ADAPTER INSERT	6063-T6	-
8	-	AS REQD.	EXTERIOR GLAZING BEAD	6063-T6	-
9	-	AS REQD.	INTERIOR GLAZING BEAD	6063-T6	-
10	-	AS REQD.	FRAME COVER	6063-T6	-
11	-	AS REQD.	MULLION REINFORCING	STEEL	A36 GRADE
12	-	AS REQD.	DOOR MULLION REINFORCING	STEEL	A36 GRADE
13	-	AS REQD.	GLAZING SPACER	-	75 DUROMETER
14	-	AS REQD.	BULB GASKET	VINYL	75 DUROMETER
15	-	2/ LITE	SETTING BLOCK	EPDM	-
16	#14 X 2"	-	ASSEMBLY SCREWS	ST/ST	PH SMS
17	FS-01064	-	DOOR MULLION ADAPTER COVER	6063-T6	-

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL (305) 264-8100 FAX (305) 262-6978  
 STORE W09-45CD

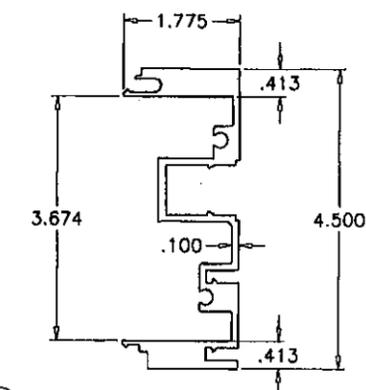
**ALC**

WS-4500 ALUM WINDOW WALL SYSTEM (L.M.I.)  
**COMMERCIAL DOOR INTL. INC.**  
 2412 SOUTH GELMAN PLACE  
 TAMPA, FL. 33619  
 TEL. (813) 247-7700 FAX. (813) 247-7771

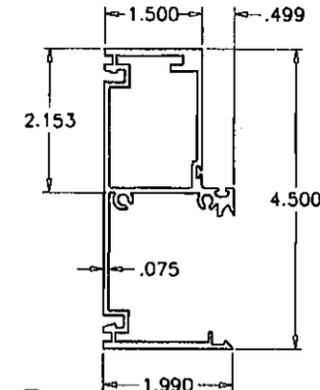
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 dr. by: HAMID  
 chk. by:

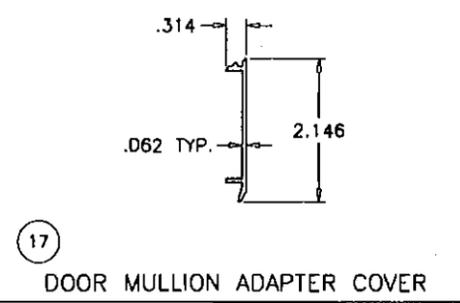
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 sheet 9 of 9



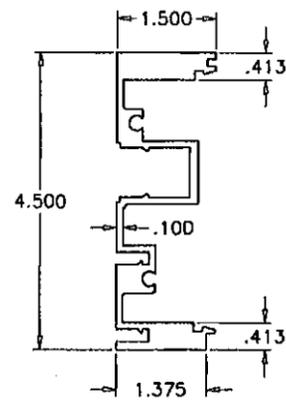
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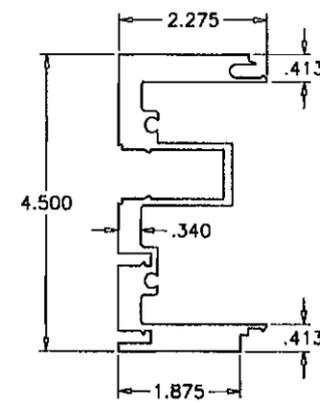
5 DOOR MULLION ADAPTER



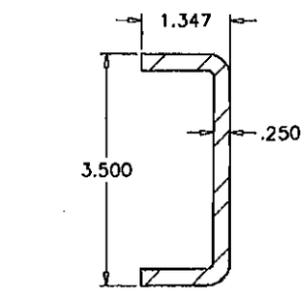
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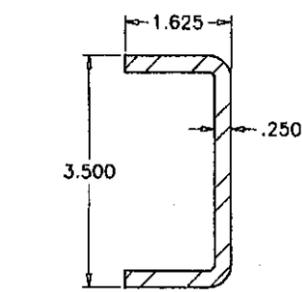
3 FEMALE MULLION/HORIZONTAL



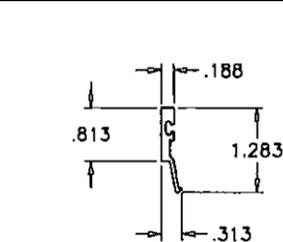
4 DOOR MULLION



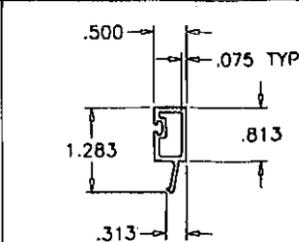
11 MULLION REINFORCING



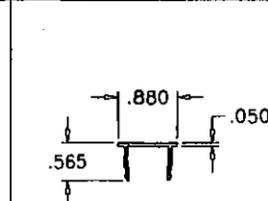
12 DOOR MULLION REINFORCING



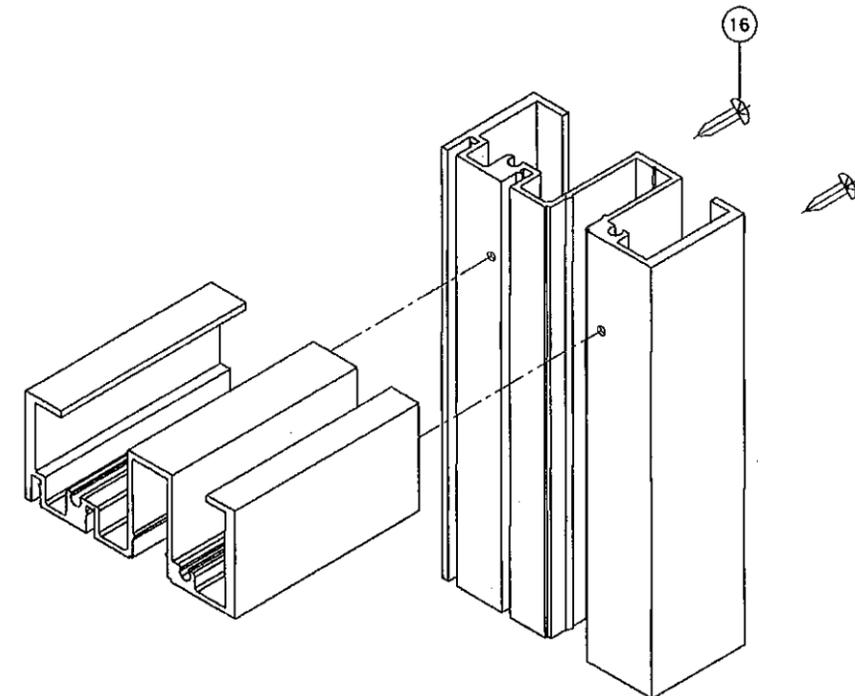
8 EXTERIOR GLAZING BEAD



9 INTERIOR GLAZING BEAD



10 FRAME COVER



FRAME CORNERS  
 TYP. FOR END & INTERMEDIATE CORNERS

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. **11-0127.01**  
 Expiration Date **05/12/2015**

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
**APR 19 2010**

By *[Signature]*  
 Miami Dade Product Control  
 Approved as complying with the  
 Florida Building Code  
 Date **05/12/2010**  
 NOA# **10-0209.05**  
 Miami Dade Product Control  
 Division  
 By *[Signature]*