



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

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

**NOTICE OF ACCEPTANCE (NOA)**

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

**YKK AP America, Inc.**  
**332 Firetower Road**  
**Dublin, GA 31021**

**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 "YHS-50 F-I" Flush Glazed Aluminum Storefront System – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W02-14**, titled "YHS-50 F-I Alum. Flush Glaze Storefront Sys. (L.M.I.)", sheets 1 through 8 of 8, dated 02/19/02 with revision "A" dated 01/09/09, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, 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 supersedes NOA # 06-1019.08** 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 **Manuel Perez, P.E.**



**NOA No. 09-0121.02**  
**Expiration Date: September 05, 2012**  
**Approval Date: February 25, 2009**  
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **W02-14**, Sheets 1 through 8 of 8, titled "YHS-50 F-I Alum. Flush Glaze Storefront Sys. (L.M.I.)", dated 02/19/02 with revision "A" dated 01/09/09, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per ASTM E283 (PA 202).
  - 2) Uniform Static Air Pressure Test, Loading ASTM E330 (PA 202).
  - 3) Water Resistance Test, per ASTM E331 (PA 202).
  - 4) Large Missile Impact Test per SSTD 12-99 (PA 201)
  - 5) Cyclic Wind Pressure Loading per SSTD 12-99 (PA 203)

Along with marked-up drawings and installation diagram of an aluminum storefront system, specimens #5(A), #4(B) and #3(C), prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0231-0601-01, reported, dated 06/21-26/01, signed and sealed by Vinu J. Abraham, P.E.

*(Submitted under NOA #02-0618.08)*

2. Test reports on:
  - 1) Air Infiltration Test, per ASTM E283 (PA 202).
  - 2) Uniform Static Air Pressure Test, Loading ASTM E330 (PA 202).
  - 3) Water Resistance Test, per ASTM E331 (PA 202).

Along with marked-up drawings and installation diagram of an aluminum storefront system, specimen #1, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0231-0826-01, reported dated 02/14/02, signed and sealed by Vinu J. Abraham, P.E.

*(Submitted under NOA #02-0618.08)*

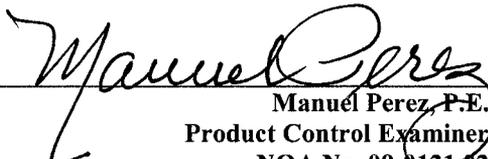
3. Test reports on:
  - 1) Uniform Static Air Pressure Test, Loading ASTM E330 (PA 202).
  - 2) Large Missile Impact Test per SSTD 12-99 (PA 201)
  - 3) Cyclic Wind Pressure Loading per SSTD 12-99 (PA 203)

Along with marked-up drawings and installation diagram of an aluminum storefront system, specimen #1, prepared by Hurricane Test Laboratory, Inc., Test Report No. HTL-0231-0210-02, reported dated 02/14/02, signed and sealed by Vinu J. Abraham, P.E.

*(Submitted under NOA #02-0618.08)*

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 08/24/06, signed and sealed by Humayoun Farooq, P.E.  
**Complies with ASTM E1300-98/02**  
*(Submitted under NOA #06-1019.08)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-0121.02

Expiration Date: September 05, 2012  
Approval Date: February 25, 2009

YKK AP America, 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. **04-0816.02** issued to E.I. DuPont DeNemours for “**DuPont Butacite “ST” PVB Material**” dated 02/04/05, expiring on 02/04/10.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their “**Saflex III G Clear or colored interlayer**” dated 05/04/06, expiring on 05/21/11.

**F. STATEMENTS**

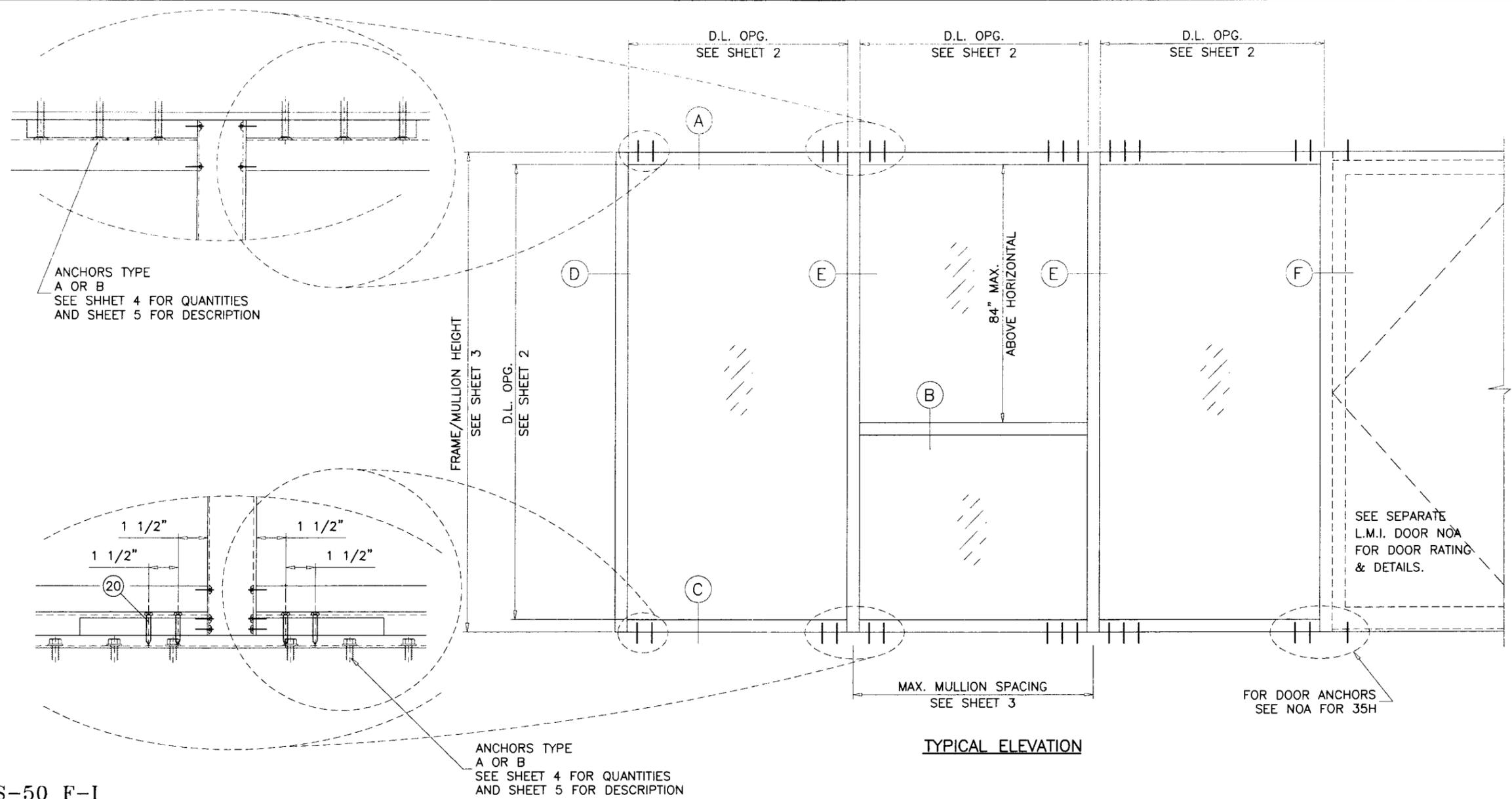
1. Statement letter of conformance, dated August 24, 2006, signed and sealed by Dr. Humayoun Farooq, P.E.  
*(Submitted under NOA #06-1019.08)*
2. Statement letter of no financial interest, dated September 01, 2006, signed and sealed by Dr. Humayoun Farooq, P.E.  
*(Submitted under NOA #06-1019.08)*
3. Laboratory compliance letter for Test Report No.’s **HTL-0231-0826-01** and **HTL-0231-0210-02**, issued by Hurricane Test Laboratory, Inc., dated February 14, 2002, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under NOA #02-0618.08)*

**G. OTHERS**

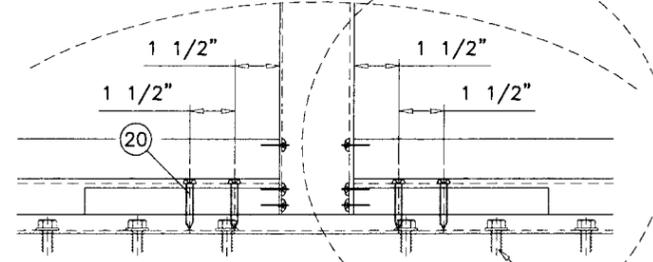
1. Notice of Acceptance No. **06-1019.08**, issued to YKK AP America, Inc. for their Series “**YHS-50 FI**” Flush Glazed Aluminum Storefront System – L.M.I., approved on 12/21/06 and expiring on 09/05/12.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 09-0121.02

Expiration Date: September 05, 2012  
Approval Date: February 25, 2009



ANCHORS TYPE  
A OR B  
SEE SHHET 4 FOR QUANTITIES  
AND SHEET 5 FOR DESCRIPTION



ANCHORS TYPE  
A OR B  
SEE SHEET 4 FOR QUANTITIES  
AND SHEET 5 FOR DESCRIPTION

**TYPICAL ELEVATION**

**SERIES YHS-50 F-I  
ALUMINUM FLUSH GLAZED STOREFRONT SYSTEM**

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

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

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED FOR ANY KIND OF GLASS BEING USED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION (REV. 2005) 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 IN ALLOWABLE STRESS 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 2004 FLORIDA BLDG. CODE SECTION 2003.8.4 (SUPPLEMENT 2005).

**INSTRUCTIONS:**

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEETS 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- 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 CHART 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.

**LAMINATED INSULATING GLASS  
LARGE MISSILE IMPACT**

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

JAN 12 2009

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 09-0121.02  
Expiration Date 11/15/2012  
By *Muhammad Farooq*  
Miami Dade Product Control  
Division

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE/WO2-14YKK

YHS-50 F-I ALUM FLUSH GLAZE STOREFRONT SYS. (L.M.)  
**YKK AP AMERICA INC.**  
332 FIRETOWER ROAD  
DUBLIN, GEORGIA 31021  
TEL.(478) 277-1955 FAX(478) 277-1978

no.	date	by	description
A	08.30.06		UPDATED FOR 2004 FBC
B	01.09.09		NO CHANGE THIS SHEET

date: 02-19-02  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

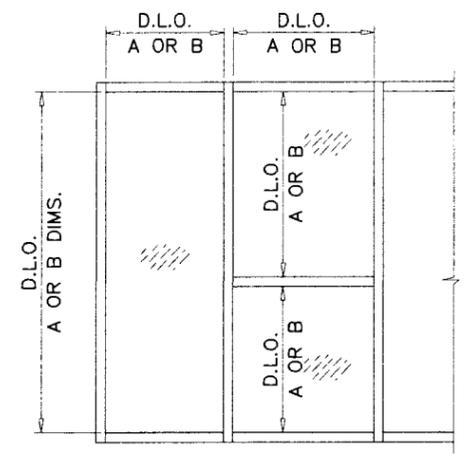
drawing no.  
**W02-14**  
sheet 1 of 8

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B' & 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	60"	70.0	50.0
39"		70.0	50.0
42"		70.0	50.0
45"		70.0	50.0
48"		70.0	50.0
51"		70.0	50.0
54"		70.0	50.0
57-1/2"		70.0	50.0
60"		70.0	50.0
63"		70.0	50.0
66"		70.0	50.0
69"		70.0	50.0
72"		70.0	50.0
36"		66"	70.0
39"	70.0		50.0
42"	70.0		50.0
45"	70.0		50.0
48"	70.0		50.0
51"	70.0		50.0
54"	70.0		50.0
57-1/2"	70.0		50.0
60"	70.0		50.0
63"	70.0		50.0
66"	70.0		50.0
69"	70.0		50.0
72"	70.0		-
36"	72"		70.0
39"		70.0	50.0
42"		70.0	50.0
45"		70.0	50.0
48"		70.0	50.0
51"		70.0	50.0
54"		70.0	50.0
57-1/2"		70.0	50.0
60"		70.0	50.0
63"		70.0	50.0
66"		70.0	-
69"		70.0	-
72"		70.0	-
36"		78"	70.0
39"	70.0		50.0
42"	70.0		50.0
45"	70.0		50.0
48"	70.0		50.0
51"	70.0		50.0
54"	70.0		50.0
57-1/2"	70.0		50.0
60"	70.0		-
63"	70.0		-
66"	70.0		-
69"	70.0		-
72"	70.0		-

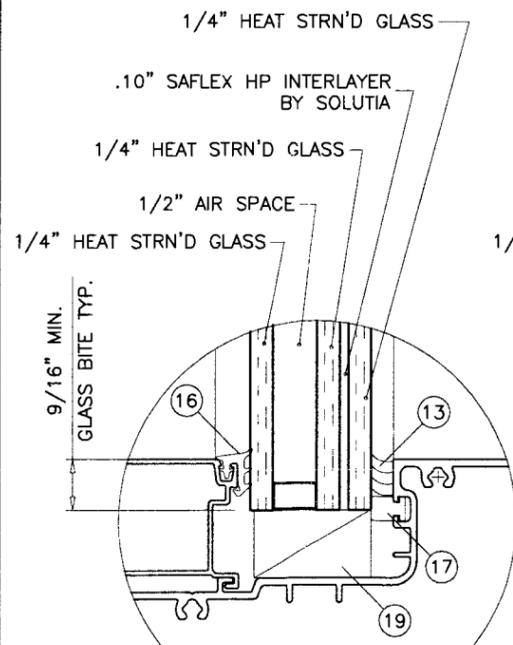
GLASS DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B' & 'C'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36"	84"	70.0	50.0	
39"		70.0	50.0	
42"		70.0	50.0	
45"		70.0	50.0	
48"		70.0	50.0	
51"		70.0	50.0	
54"		70.0	50.0	
57-1/2"		70.0	-	
60"		70.0	-	
63"		70.0	-	
66"		70.0	-	
69"		70.0	-	
72"		70.0	-	
36"		90"	70.0	50.0
39"	70.0		50.0	
42"	70.0		50.0	
45"	70.0		50.0	
48"	70.0		50.0	
51"	70.0		50.0	
54"	70.0		-	
57-1/2"	70.0		-	
60"	70.0		-	
63"	70.0		-	
36"	96"		70.0	50.0
39"			70.0	50.0
42"			70.0	50.0
45"			70.0	50.0
48"		70.0	50.0	
51"		70.0	-	
54"		70.0	-	
57-1/2"		70.0	-	
60"		70.0	-	
36"		102-3/8"	70.0	50.0
39"			70.0	50.0
42"			70.0	50.0
45"			70.0	50.0
48"			70.0	-
51"	70.0		-	
54"	70.0		-	
57-1/2"	70.0		-	
36"	108"		70.0	50.0
39"			70.0	50.0
42"			70.0	50.0
45"			70.0	-
48"			70.0	-
51"			70.0	-
54"		70.0	-	

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B' & 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	114"	70.0	50.0
39"		70.0	50.0
42"		70.0	-
45"		70.0	-
48"		70.0	-
51"		70.0	-
36"	120"	70.0	50.0
39"		70.0	-
42"		70.0	-
45"		70.0	-
48"		70.0	-

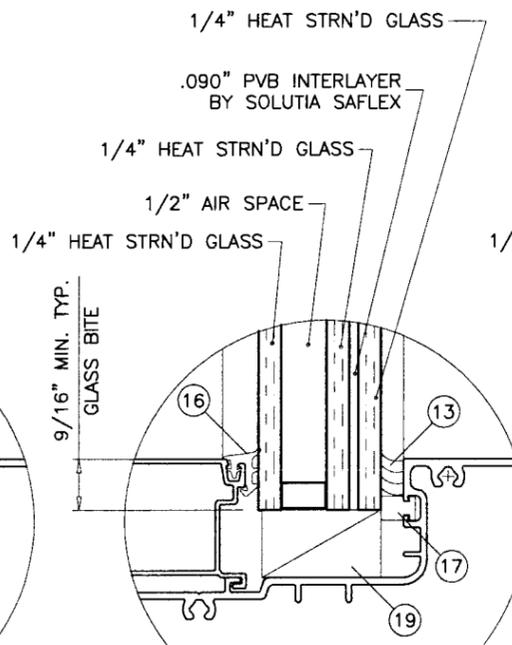
GLASS CAPACITIES ON THIS CHART ARE BASED ON  
A: ASTM E1300-98 (60 SEC. WIND)  
B: ASTM E1300-02 (3 SEC. GUSTS).



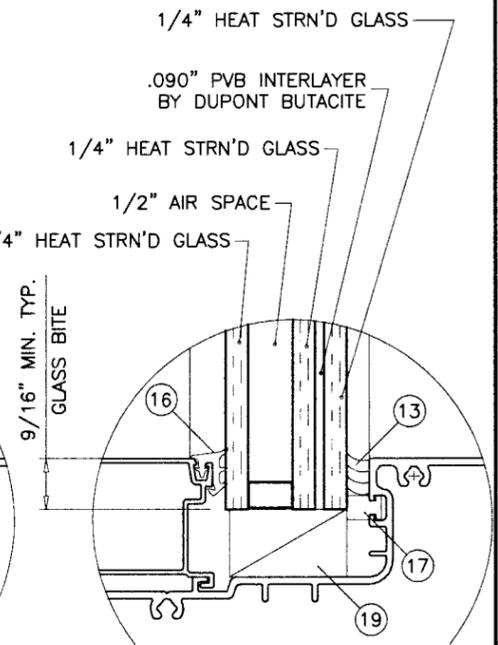
GLASS CHARTS



GLASS TYPE 'A'  
1-5/16" THICK NOMINAL



GLASS TYPE 'B'  
1-5/16" THICK NOMINAL



GLASS TYPE 'C'  
1-5/16" THICK NOMINAL

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

JAN 1 2 2009

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 09-0121.02  
Expiration Date 11/15/2012  
By *Manuel Perez*  
Miami Dade Product Control  
Division

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE/W02-14YKK

**YKK AP AMERICA INC.**  
332 FIRETOWER ROAD  
DUBLIN, GEORGIA 31021  
TEL (478) 277-1955 FAX(478) 277-1978

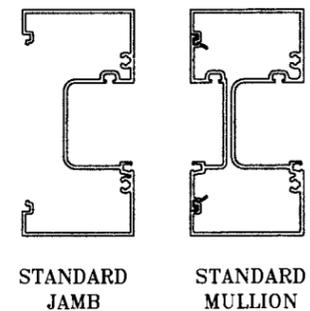
no	date	description
A	08.30.06	UPDATED FOR 2004 FBC
B	01.09.09	NO CHANGE THIS SHEET

date: 02-19-02  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W02-14**  
sheet 2 of 8

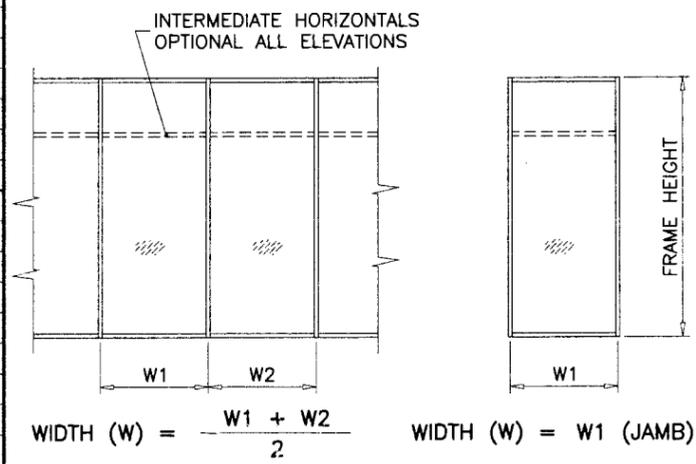
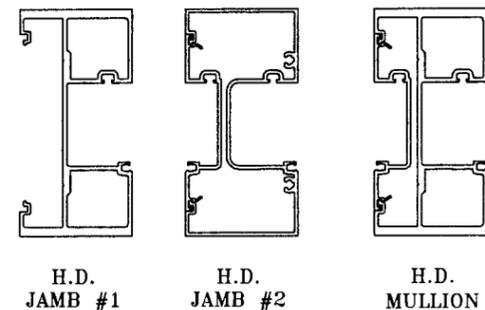
DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		STD. JAMB	STD. MULLION	
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	
30"	72"	50.0	50.0	
33"		50.0	50.0	
36"		50.0	50.0	
39"		50.0	50.0	
42"		50.0	50.0	
45"		50.0	50.0	
48"		50.0	50.0	
51"		50.0	50.0	
54"		50.0	50.0	
57"		50.0	50.0	
60"		50.0	50.0	
63"		50.0	50.0	
66"		50.0	50.0	
69"		50.0	50.0	
72"	50.0	50.0		
30"	78"	50.0	50.0	
33"		50.0	50.0	
36"		50.0	50.0	
39"		50.0	50.0	
42"		50.0	50.0	
45"		50.0	50.0	
48"		50.0	50.0	
51"		50.0	50.0	
54"		50.0	50.0	
57"		50.0	50.0	
60"		50.0	50.0	
63"		50.0	50.0	
66"		50.0	50.0	
30"		84"	50.0	50.0
33"	50.0		50.0	
36"	50.0		50.0	
39"	50.0		50.0	
42"	50.0		50.0	
45"	50.0		50.0	
48"	50.0		50.0	
51"	50.0		50.0	
54"	50.0		50.0	
57"	50.0		50.0	
60"	50.0		50.0	
30"	90"		50.0	50.0
33"			50.0	50.0
36"			50.0	50.0
39"		50.0	50.0	
42"		50.0	50.0	
45"		50.0	50.0	
48"		50.0	50.0	
51"		50.0	50.0	
54"		50.0	50.0	
57"		50.0	50.0	
60"		50.0	50.0	

DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		STD. JAMB	STD. MULLION	
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	
30"	96"	50.0	50.0	
33"		50.0	50.0	
36"		50.0	50.0	
39"		50.0	50.0	
42"		50.0	50.0	
45"		50.0	50.0	
48"		50.0	50.0	
51"		49.5	50.0	
54"	46.7	50.0		
30"	102"	50.0	50.0	
33"		50.0	50.0	
36"		50.0	50.0	
39"		50.0	50.0	
42"		50.0	50.0	
45"		49.7	50.0	
48"		46.6	50.0	
51"		43.8	50.0	
30"	108"	50.0	50.0	
33"		50.0	50.0	
36"		50.0	50.0	
39"		50.0	50.0	
42"		47.5	50.0	
45"		44.3	49.0	
48"		41.5	45.9	
30"		114"	50.0	50.0
33"	50.0		50.0	
36"	49.7		50.0	
39"	45.9		48.0	
42"	42.6		44.6	
45"	39.8		41.6	
30"	120"		50.0	50.0
33"			48.9	48.7
36"		44.8	44.6	
39"		41.4	41.2	
42"		38.4	38.2	



DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		H.D. JAMB #1	H.D. JAMB #2	H.D. MULLION
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
30"	90"	70.0	70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		70.0	70.0	70.0
48"		70.0	70.0	70.0
51"		70.0	70.0	70.0
54"		70.0	70.0	70.0
57"		70.0	70.0	70.0
60"		70.0	70.0	70.0
63"		70.0	70.0	70.0
66"		70.0	70.0	70.0
72"		70.0	70.0	70.0
30"	96"	70.0	70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		70.0	70.0	70.0
48"		70.0	70.0	70.0
51"		70.0	70.0	70.0
54"		70.0	70.0	70.0
57"		70.0	70.0	70.0
60"		70.0	70.0	70.0
63"		70.0	70.0	70.0
66"		70.0	70.0	70.0
30"		102"	70.0	70.0
33"	70.0		70.0	70.0
36"	70.0		70.0	70.0
39"	70.0		70.0	70.0
42"	70.0		70.0	70.0
45"	70.0		70.0	70.0
48"	70.0		70.0	70.0
51"	70.0		70.0	70.0
54"	70.0		70.0	70.0
57"	70.0		70.0	70.0
60"	70.0		70.0	70.0
63"	70.0		70.0	70.0
66"	70.0		70.0	70.0
30"	108"		70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		70.0	70.0	70.0
48"		70.0	70.0	70.0
51"		70.0	70.0	70.0
54"		70.0	70.0	70.0
57"		70.0	70.0	70.0
60"		70.0	70.0	70.0

DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		H.D. JAMB #1	H.D. JAMB #2	H.D. MULLION	
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	
30"	114"	70.0	70.0	70.0	
33"		70.0	70.0	70.0	
36"		70.0	70.0	70.0	
39"		70.0	70.0	70.0	
42"		70.0	70.0	70.0	
45"		70.0	70.0	70.0	
48"		70.0	70.0	70.0	
51"		70.0	70.0	70.0	
54"		70.0	69.4	66.6	
57"		70.0	65.7	63.1	
30"		120"	70.0	70.0	70.0
33"			70.0	70.0	70.0
36"			70.0	70.0	70.0
39"			70.0	70.0	70.0
42"	70.0		70.0	70.0	
45"	70.0		70.0	68.6	
48"	70.0		66.9	64.3	
51"	70.0		63.0	60.5	
54"	70.0		59.5	57.1	



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

JAN 1 2 2009

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 09-0121.02  
Expiration Date 11/15/2012

By *Mamed*  
Miami Dade Product Control  
Division

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W02-14YK

**YK AP AMERICA INC.**  
332 FIRETOWER ROAD  
DUBLIN, GEORGIA 31021  
TEL. (478) 277-1955 FAX (478) 277-1978

revisions:

no	date	description
A	08.30.06	UPDATED FOR 2004 FBC
B	01.09.09	NO CHANGE THIS SHEET

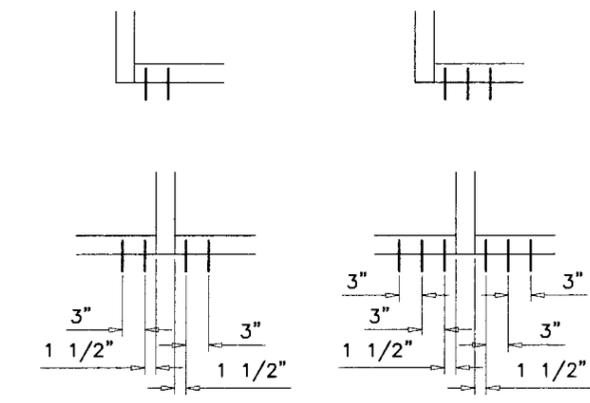
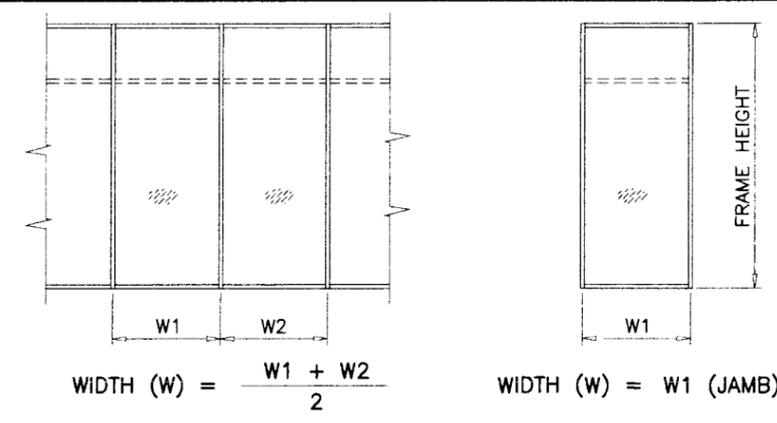
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dr. by: HAMID  
chk. by:

drawing no. **W02-14**  
sheet 3 of 8

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)				
NOMINAL DIMS.		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'
WIDTH (W)	FRAME HEIGHT	A2	A3	B2
30"	72"	70.0	70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		70.0	70.0	70.0
48"		70.0	70.0	70.0
51"		70.0	70.0	70.0
54"		70.0	70.0	70.0
57"		70.0	70.0	70.0
60"		70.0	70.0	70.0
63"		70.0	70.0	70.0
66"		70.0	70.0	70.0
69"		70.0	70.0	70.0
72"	70.0	70.0	70.0	
30"	78"	70.0	70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		70.0	70.0	70.0
48"		70.0	70.0	70.0
51"		70.0	70.0	70.0
54"		70.0	70.0	70.0
57"		70.0	70.0	70.0
60"		70.0	70.0	70.0
63"		70.0	70.0	70.0
66"		70.0	70.0	70.0
69"		68.3	70.0	70.0
72"	65.4	70.0	70.0	
30"	84"	70.0	70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		70.0	70.0	70.0
48"		70.0	70.0	70.0
51"		70.0	70.0	70.0
54"		70.0	70.0	70.0
57"		70.0	70.0	70.0
60"		70.0	70.0	70.0
63"		69.4	70.0	70.0
66"		66.3	70.0	70.0
69"		63.4	70.0	70.0
72"	60.8	70.0	70.0	

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	
30"	90"	70.0	70.0	70.0	
33"		70.0	70.0	70.0	
36"		70.0	70.0	70.0	
39"		70.0	70.0	70.0	
42"		70.0	70.0	70.0	
45"		70.0	70.0	70.0	
48"		70.0	70.0	70.0	
51"		70.0	70.0	70.0	
54"		70.0	70.0	70.0	
57"		70.0	70.0	70.0	
60"		68.1	70.0	70.0	
63"		64.8	70.0	70.0	
66"		61.9	70.0	70.0	
69"		59.2	70.0	70.0	
72"	56.7	70.0	70.0		
30"	96"	70.0	70.0	70.0	
33"		70.0	70.0	70.0	
36"		70.0	70.0	70.0	
39"		70.0	70.0	70.0	
42"		70.0	70.0	70.0	
45"		70.0	70.0	70.0	
48"		70.0	70.0	70.0	
51"		70.0	70.0	70.0	
54"		70.0	70.0	70.0	
57"		67.2	70.0	70.0	
60"		63.8	70.0	70.0	
63"		60.8	70.0	70.0	
66"		58.0	70.0	70.0	
30"		102"	70.0	70.0	70.0
33"	70.0		70.0	70.0	
36"	70.0		70.0	70.0	
39"	70.0		70.0	70.0	
42"	70.0		70.0	70.0	
45"	70.0		70.0	70.0	
48"	70.0		70.0	70.0	
51"	70.0		70.0	70.0	
54"	66.7		70.0	70.0	
57"	63.2		70.0	70.0	
60"	60.0		70.0	70.0	
63"	57.2		70.0	70.0	
30"	108"		70.0	70.0	70.0
33"			70.0	70.0	70.0
36"		70.0	70.0	70.0	
39"		70.0	70.0	70.0	
42"		70.0	70.0	70.0	
45"		70.0	70.0	70.0	
48"		70.0	70.0	70.0	
51"		66.7	70.0	70.0	
54"		63.0	70.0	70.0	
57"		59.7	70.0	70.0	
60"		56.7	70.0	70.0	

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)				
NOMINAL DIMS.		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'
WIDTH (W)	FRAME HEIGHT	A2	A3	B2
30"	114"	70.0	70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		70.0	70.0	70.0
48"		67.2	70.0	70.0
51"		63.2	70.0	70.0
54"		59.7	70.0	70.0
57"		56.6	70.0	70.0
30"	120"	70.0	70.0	70.0
33"		70.0	70.0	70.0
36"		70.0	70.0	70.0
39"		70.0	70.0	70.0
42"		70.0	70.0	70.0
45"		68.1	70.0	70.0
48"		63.8	70.0	70.0
51"		60.0	70.0	70.0
54"		56.7	70.0	70.0



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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

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

JAN 1 2 2009

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as complying with the Florida  
Building Code  
Acceptance No 09-0121.02  
Expiration Date 11/15/2012

By *Manuel*  
Miami Dade Product Control  
Division

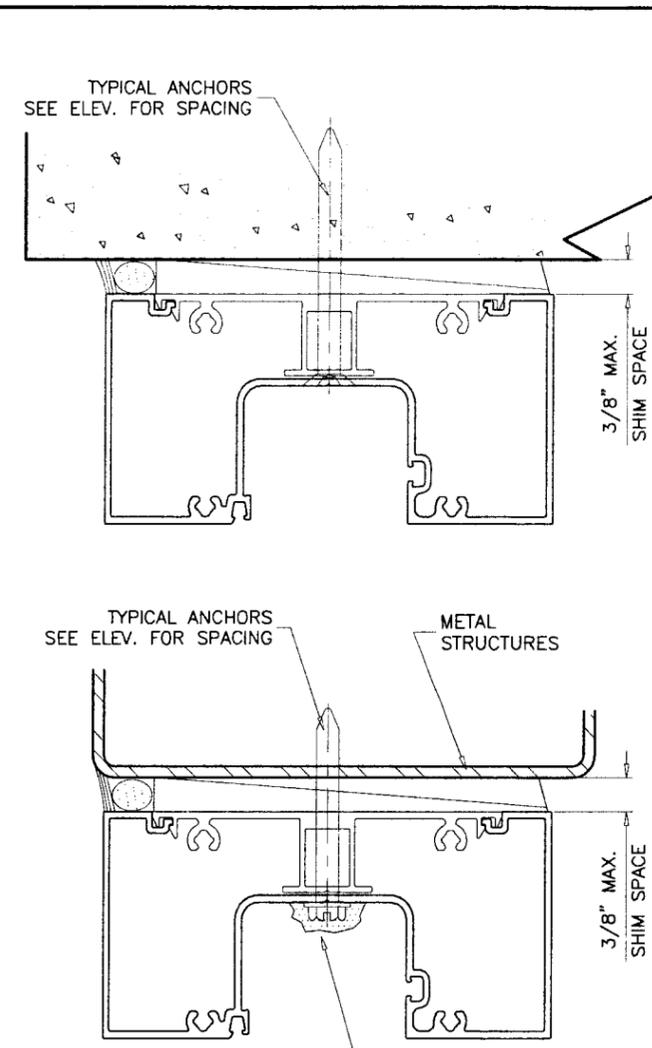
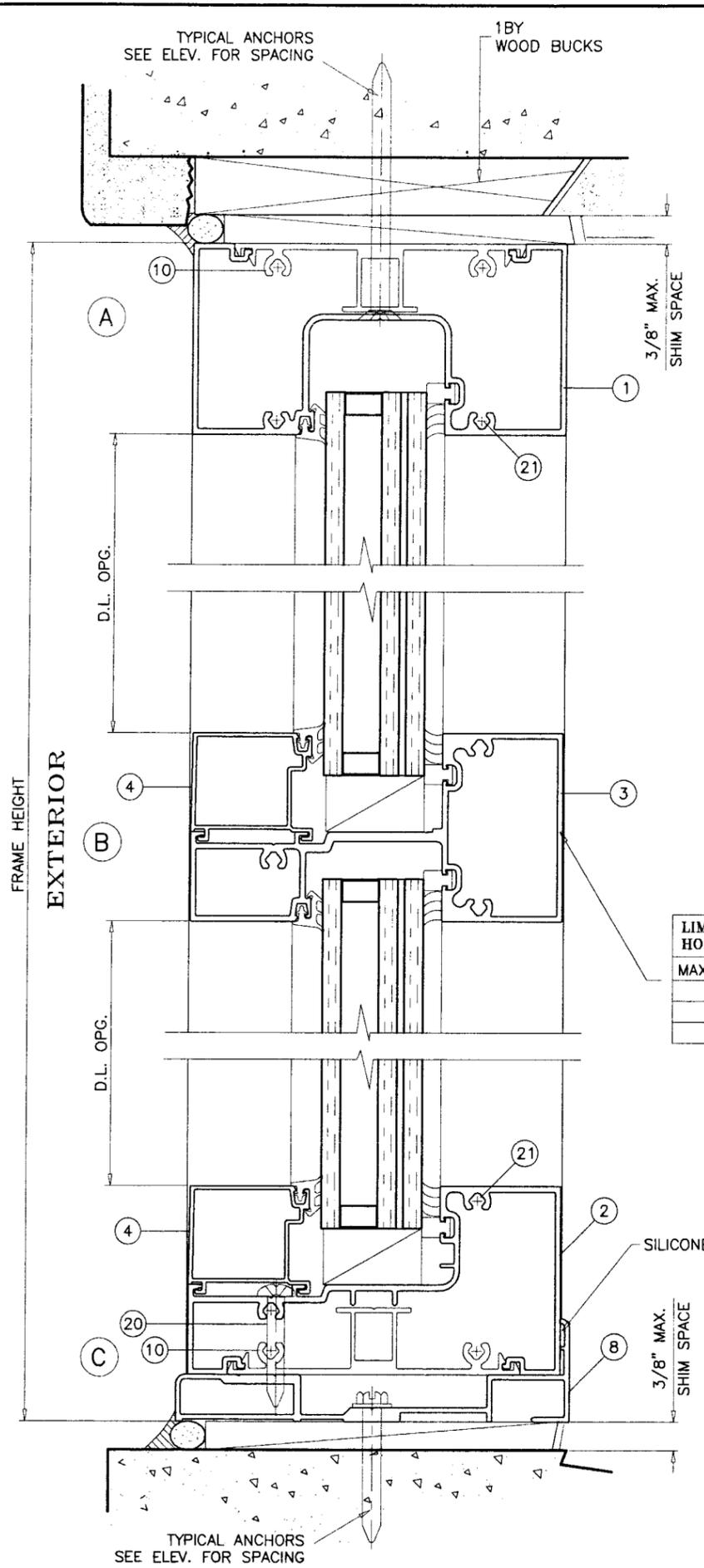
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE/W02-14YKK

**YHS-50 F-1 ALUM FLUSH GLAZE STOREFRONT SYS. (L.M.)**  
**YKK AP AMERICA INC.**  
332 FIRETOWER ROAD  
DUBLIN, GEORGIA 31021  
TEL.(478) 277-1955 FAX(478) 277-1978

no	date	by	description
A	08.30.06		UPDATED FOR 2004 FBC
B	01.09.09		NO CHANGE THIS SHEET

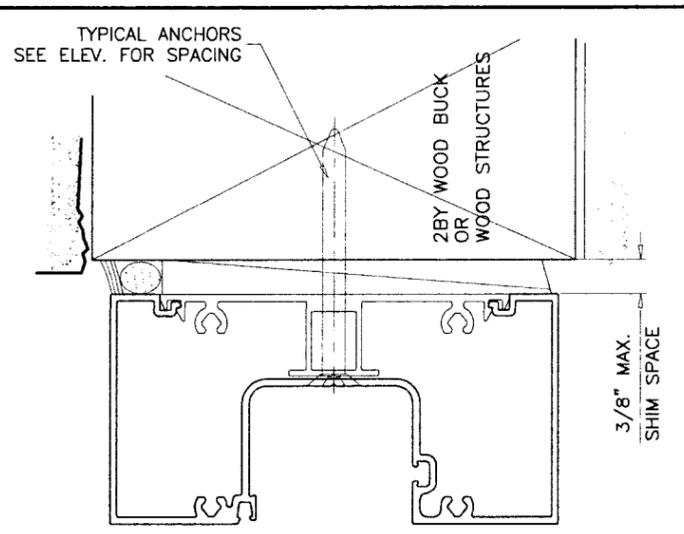
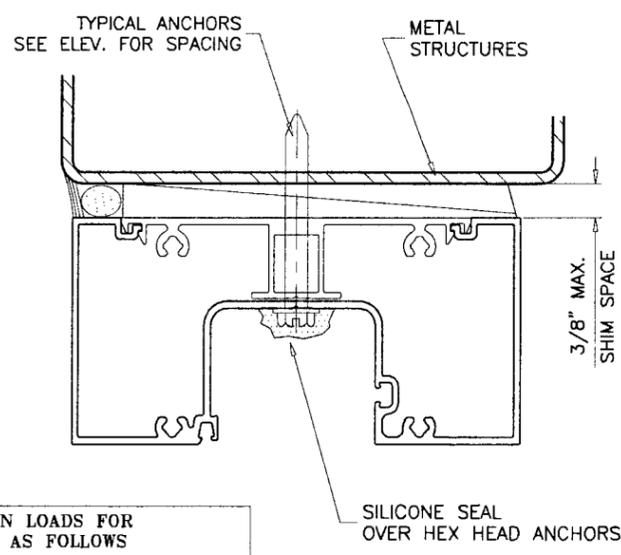
date: 02-19-02  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W02-14**  
sheet 4 of 8



LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS

MAX. HORIZ. SPAN	MAX. DESIGN LOADS
72"	46 PSF
66"	60 PSF
60"	70 PSF



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

A) **5/16" DIA TAPCONS**  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD  
 THRU 1BY WOOD BUCKS INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONCRETE  
 DIRECTLY INTO CONCRETE WITH 1-1/4" MIN. EMBED INTO CONC.

B) **5/16" DIA. TEKS/DRILL-FLEX SELF DRILLING SCREWS**  
 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)

**ANCHOR EDGE DISTANCES**  
 INTO CONCRETE AND MASONRY = 3" MIN.  
 INTO WOOD STRUCTURE = 1-1/2" MIN.  
 INTO METAL STRUCTURE = 1/2" MIN.

**SEALANTS:**  
 ALL FRAME CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH SILICONE SEALANT.

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

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

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No 09-0121.02  
 Expiration Date 11/15/2012

JAN 12 2009

By *Manuel Perez*  
 Miami Dade Product Control Division

**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W02-14YKK

**YHS-50 F-I ALUM FLUSH GLAZE STOREFRONT SYS. (L.M.)**

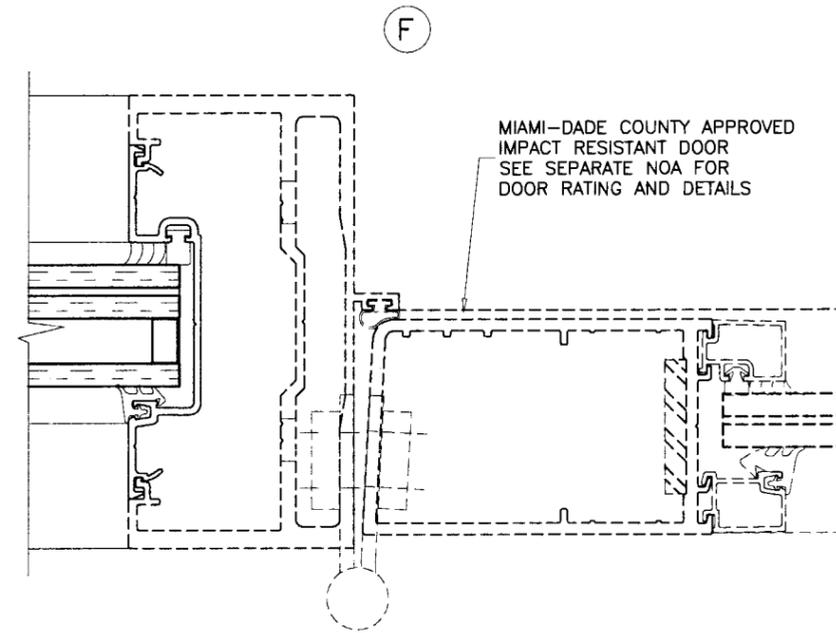
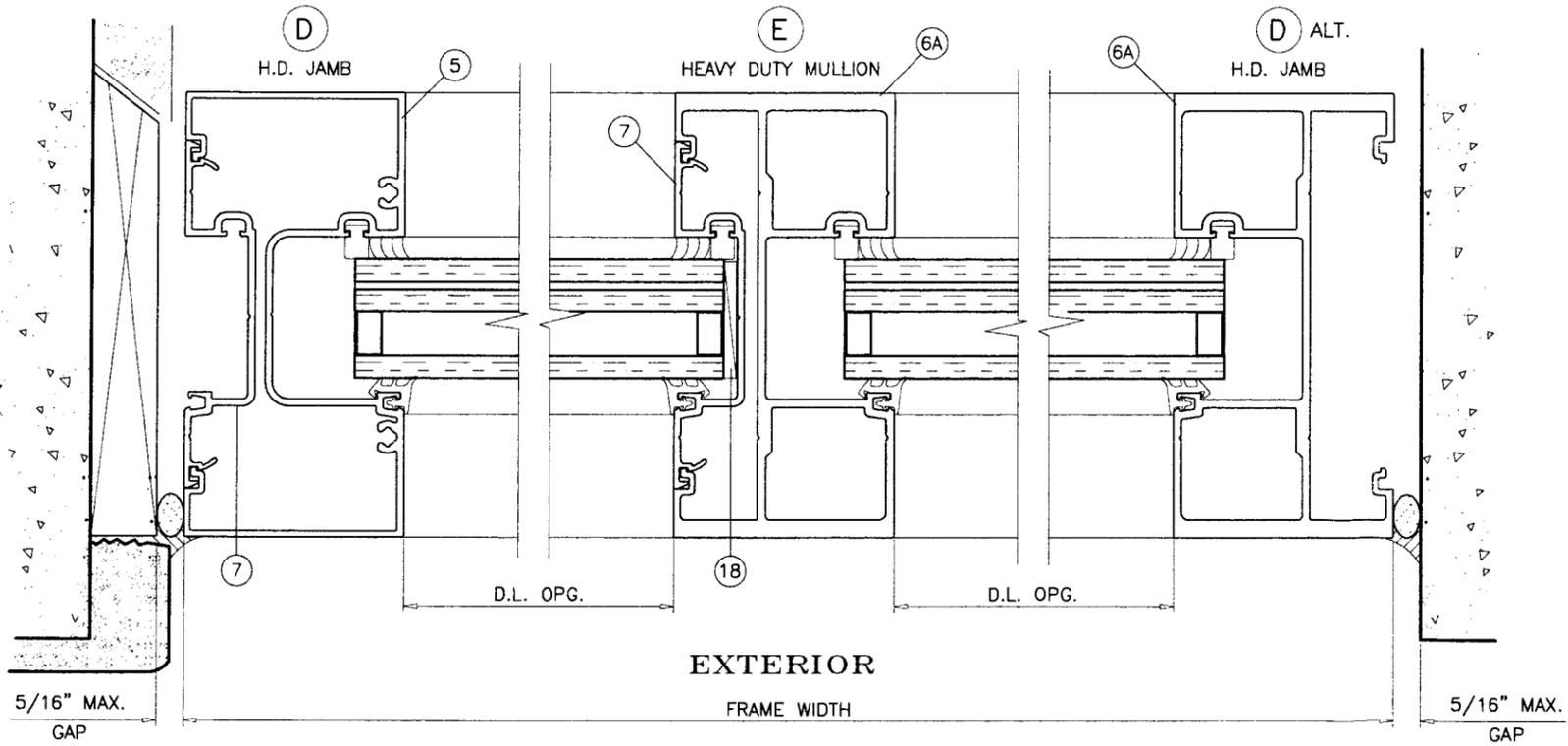
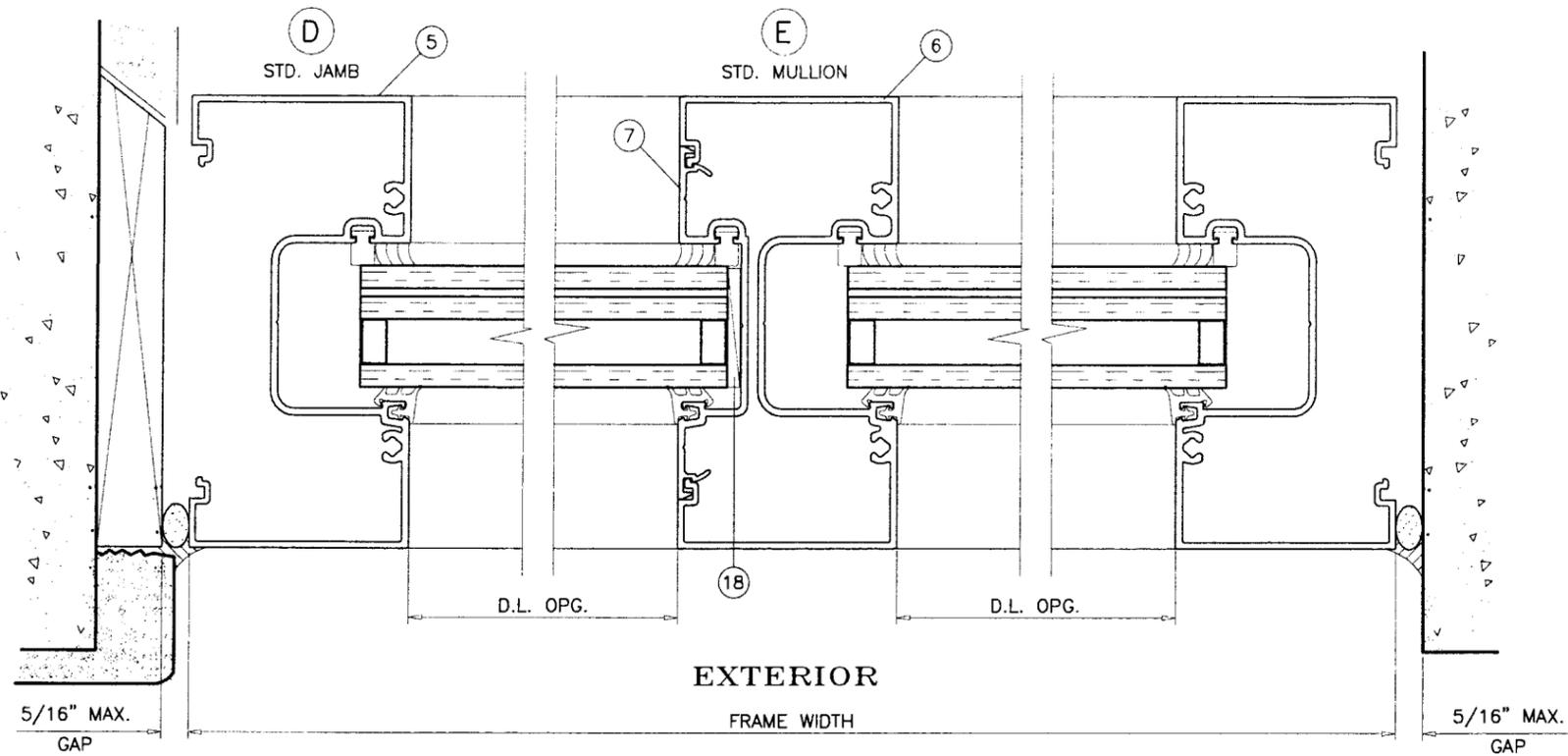
**YKK AP AMERICA INC.**  
 332 FIRETOWER ROAD  
 DUBLIN, GEORGIA 31021  
 TEL.(478) 277-1955 FAX(478) 277-1978

no	date	description
A	08.30.06	UPDATED FOR 2004 FBC
B	01.09.09	NO CHANGE THIS SHEET

revisions:

date: 02-19-02  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no. **W02-14**  
 sheet 5 of 8



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

JAN 13 2009

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as complying with the Florida  
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By *Manuel Perez*  
Miami Dade Product Control  
Division

afc

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ENGINEERS, PLANNERS & PRODUCT DESIGN  
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TEL. (305) 264-8100 FAX. (305) 262-6978

**YKK AP AMERICA INC.**  
332 FIRETOWER ROAD  
DUBLIN, GEORGIA 31021  
TEL.(478) 277-1955 FAX(478) 277-1978

**YKK AP**  
MIAMI-DADE COUNTY APPROVED  
IMPACT RESISTANT DOOR  
SEE SEPARATE NOA FOR  
DOOR RATING AND DETAILS

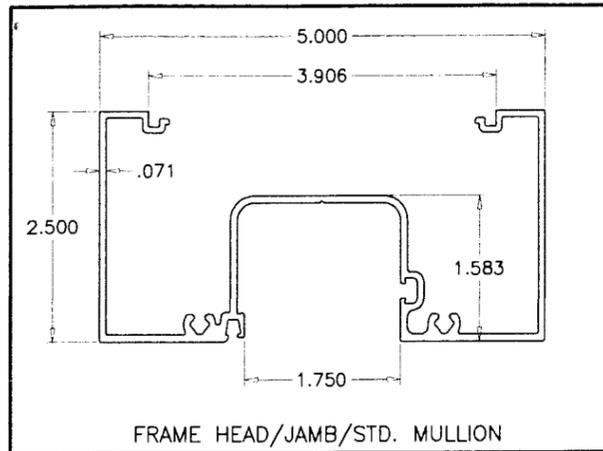
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no	date	by	description
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B	01.09.09		NO CHANGE THIS SHEET

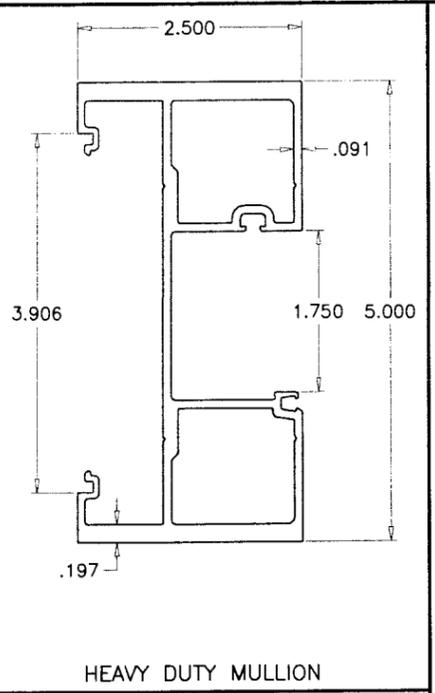
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drawing no.  
**W02-14**  
sheet 6 of 8

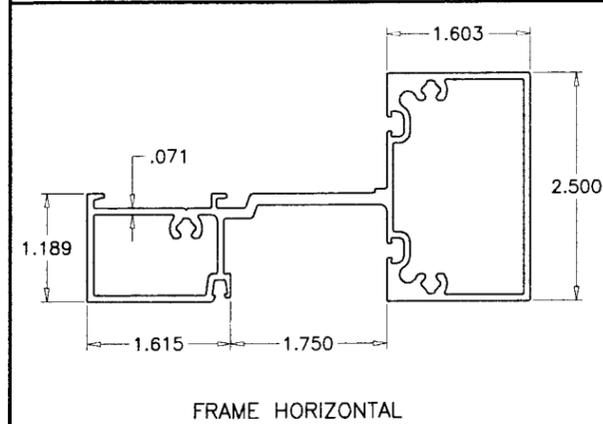
STORE\W02-14YKK



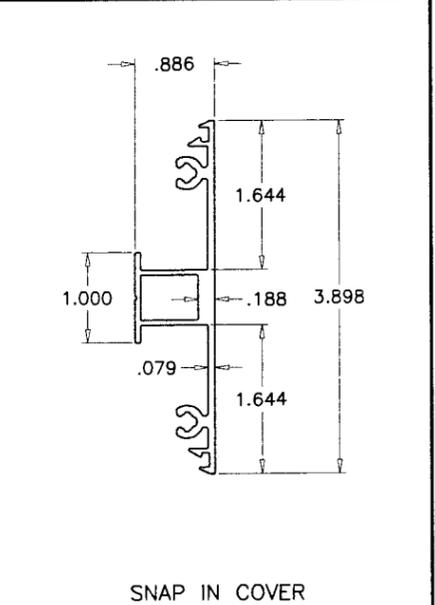
FRAME HEAD/JAMB/STD. MULLION



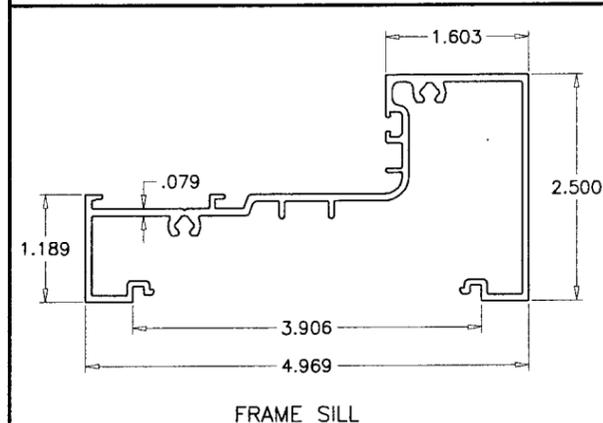
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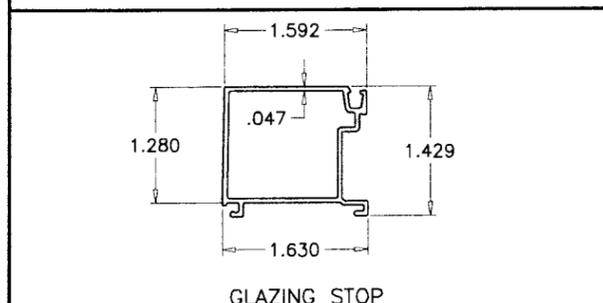
FRAME HORIZONTAL



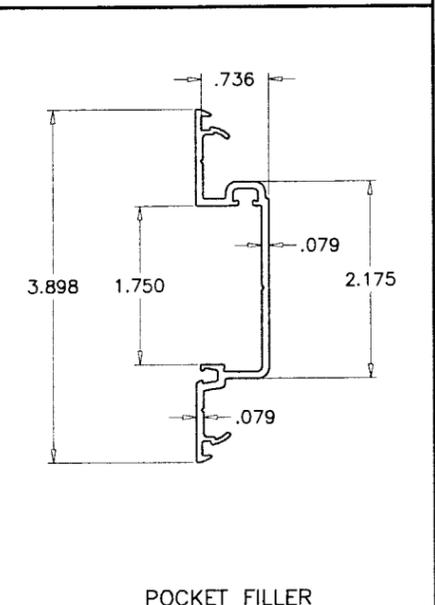
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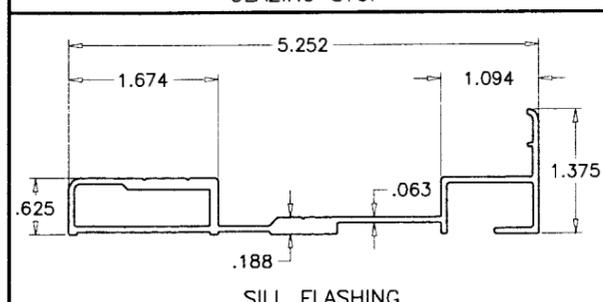
FRAME SILL



GLAZING STOP



POCKET FILLER



SILL FLASHING

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E9-0651	AS REQD.	FRAME HEAD	6063-T5	-
2	E9-0652	AS REQD.	FRAME SILL	6063-T5	-
3	E9-0653	AS REQD.	FRAME HORIZONTAL	6063-T5	-
4	E9-0658	AS REQD.	GLAZING STOP	6063-T5	-
5	E9-0651	AS REQD.	FRAME JAMB	6063-T5	-
6	E9-0651	AS REQD.	STANDARD MULLION	6063-T5	-
6A	E9-0654	AS REQD.	HEAVY DUTY JAMB/MULLION	6063-T5	-
7	E9-0655	AS REQD.	POCKET FILLER	6063-T5	-
8	E9-0616	AS REQD.	SILL FLASHING	6063-T5	-
10	E1-1073	AS REQD.	ANCHOR PLATE	6063-T5	-
13	DOW 995	AS REQD.	GLAZING COMPOUND	SILICONE	-
16	E2-0083	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	FOR 1-5/16" GLASS
17	E2-0084	AS REQD.	INTERIOR SILICONE SPACER	EPDM	1/4" X 1/4"
18	E2-0096	AS REQD.	SIDE BLOCK	EPDM	-
19	E2-0095	AS REQD.	SETTING BLOCK	EPDM	-
20	PC-1424	AS REQD.	#14 X 1-1/2" SMS	STEEL	FOR SILL, (2) AT EACH SIDE OF MULLION/JAMB
21	PC-1220	AS REQD.	#12 X 1-1/4" SMS	STEEL	FOR SCREW SPLINE

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

*[Signature]*  
 JAN 12 2009

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 09-0121.02  
 Expiration Date 11/15/2012

By *[Signature]*  
 Miami Dade Product Control  
 Division

**afsc**

**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W02-14YKK

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YHS-50 F-I ALUM FLUSH GLAZE STOREFRONT SYS. (L.M.)

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 332 FIRETOWER ROAD  
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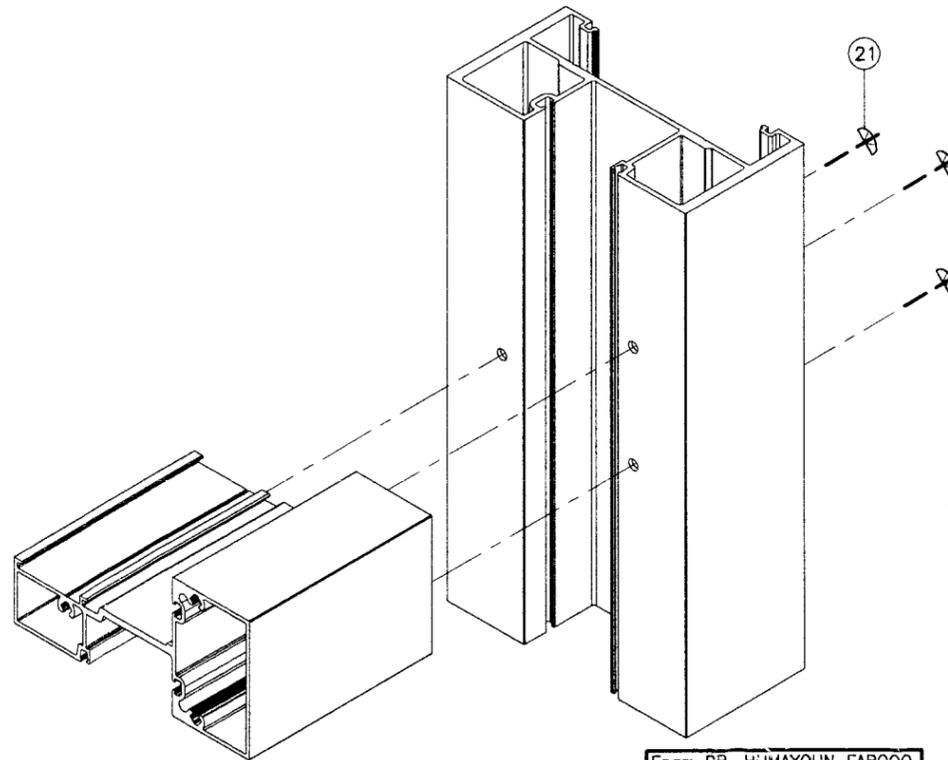
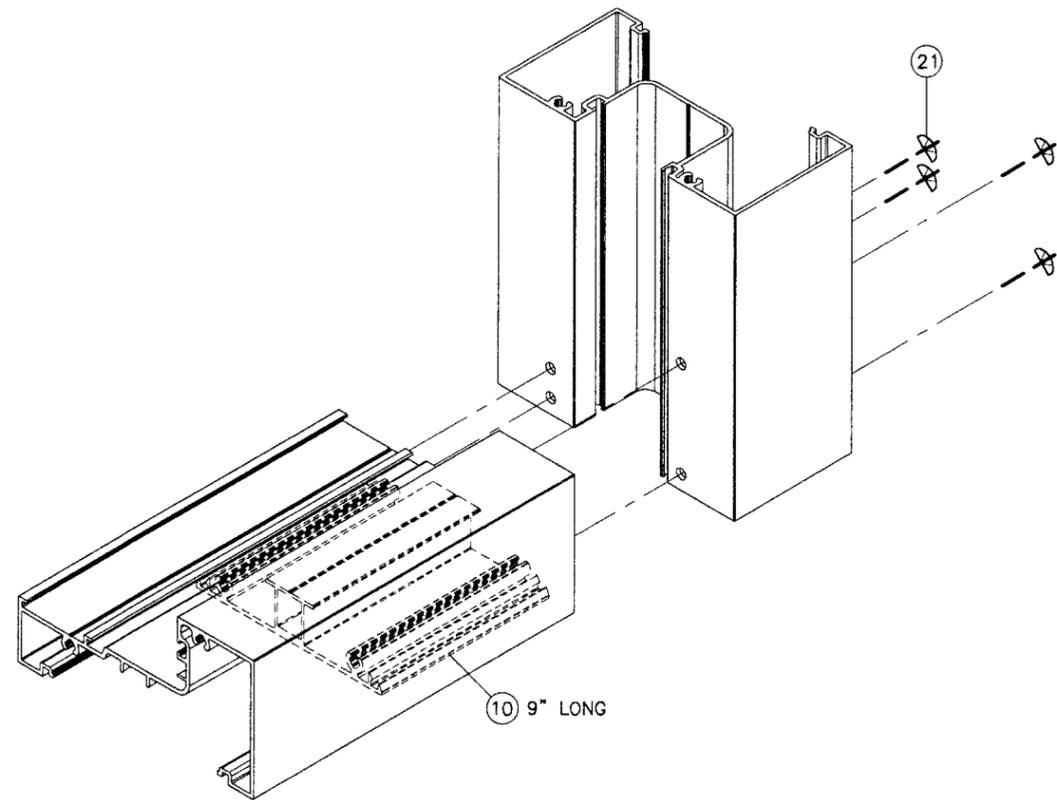
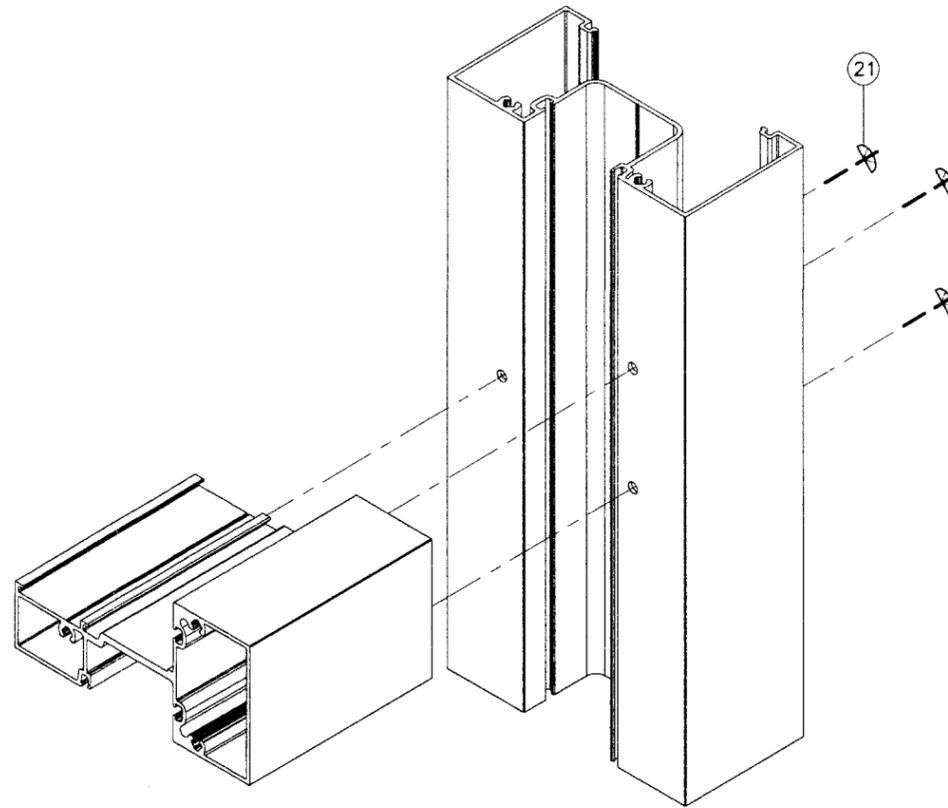
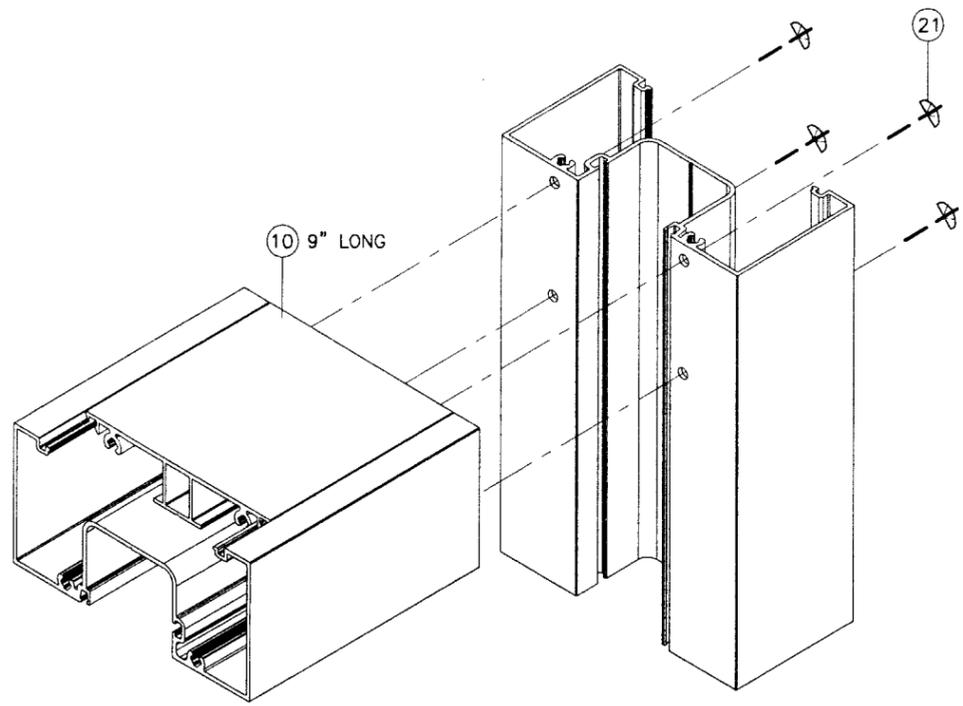
**YKK AP**

no.	date	description
A	08.30.06	UPDATED FOR 2004 FBC
B	10.09.09	SILL FLASHING TITLE REV.

revisions:

date: 02-19-02  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no. **W02-14**  
 sheet 7 of 8



FRAME CORNERS

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

JAN 13 2009

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 09-0121-02  
Expiration Date 11/15/2012

By *Maureen King*  
Miami Dade Product Control  
Division

ALFC

AL-FAROOQ CORPORATION  
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A	08.30.06		UPDATED FOR 2004 FBC
B	01.09.09		NO CHANGE THIS SHEET

date: 02-19-02	scale: -	dr. by: HAMID	chk. by:
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W02-14

sheet 8 of 8

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