



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/buldingcode.com](http://www.miamidade.gov/buldingcode.com)

**YKK AP America, Inc.**  
5630 Gwaltney Drive  
Atlanta, GA 30336

**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 TU Flush Glazed Aluminum Storefront System - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **W04-103**, titled "YHS 50 TU Alum. Storefront System (L.M.I.)", sheets 1 through 9 of 9, dated 12/30/04 with revision A dated 10/05/06, 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 NOA # 05-0317.03 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. 07-0424.02  
Expiration Date: May 12, 2010  
Approval Date: September 6, 2007  
Page 1

**YKK AP America Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections
2. Drawing No. **W04-103**, titled "YHS 50 TU Alum Storefront System (L.M.I.)", sheets 1 through 9 of 9, dated 12/30/04, with revision A dated 10/05/06, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**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 203-94along with marked-up drawings and installation diagram of a series YHS 50 TU aluminum storefront system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0231-0704-04-(specimen 1, 2, 3, 4, &5)** dated various, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under previous NOA#05-0317.03)*

**C. CALCULATIONS**

1. Anchor Calculations and Structural Analysis, prepared by Al-Farooq Corporation, dated October 3, 2006, signed and sealed by Humayoun Farooq, P.E.  
Complies with ASTM E1300-98/02.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

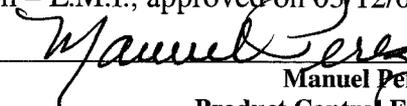
1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont de Nemours & Co. for their "DuPont Butacite PVB Interlayer" dated 01/05/06, expiring on 12/11/10.
2. Notice of Acceptance No. **03-0827.08** issued to Solutia, Inc. for their "Solutia Interlayers" dated 03/04/04, expiring on 04/04/09.
3. Notice of Acceptance No. **03-0415.13** issued to Solutia, Inc. for their "Vanceva Composites used for lamination of glass" dated 12/11/03, expiring on 12/11/08.

**F. STATEMENTS**

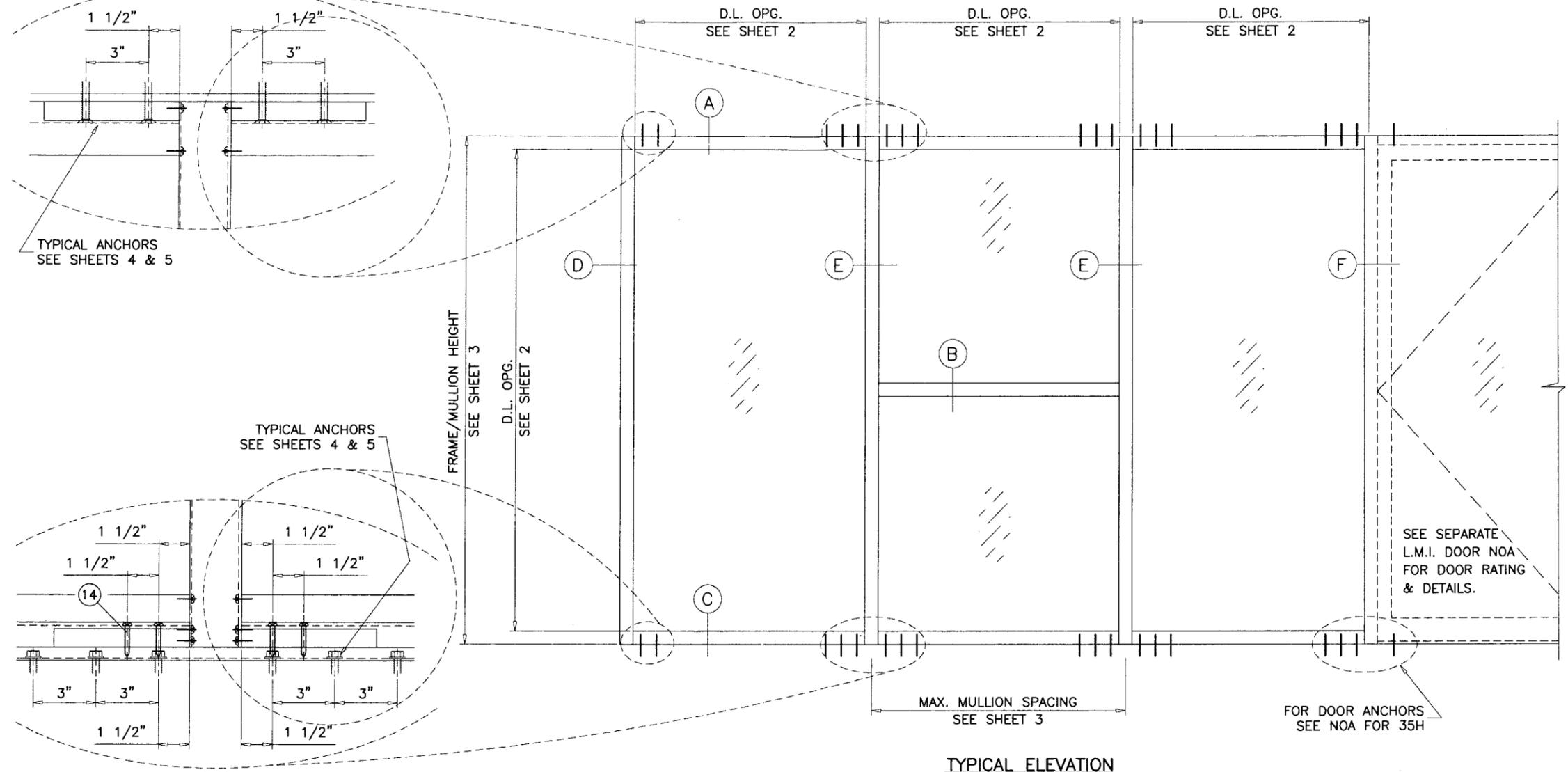
1. Statement letter of conformance, dated October 3, 2006, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated October 3, 2006, signed and sealed by Humayoun Farooq, P.E.

**G. OTHER**

1. Notice of Acceptance No. **05-0317.03**, issued to YKK AP America Inc. for their Series YHS 50 TU Aluminum Storefront System – L.M.I., approved on 05/12/05 and expiring on 05/12/10.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 07-0424.02

Expiration Date: May 12, 2010  
Approval Date: September 6, 2007



**YHS 50 TU ALUMINUM STOREFRONT SYSTEM**

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH OUTSWING ENTRANCE DOORS MODEL 35H. 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 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.

**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.
- 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 SHEETS 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. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

*Handwritten signature and date: NOV 27 2006*

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 07-0424.02  
Expiration Date MAY 12, 2010  
By *Manuel Perez*  
Miami Dade Product Control Division

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE\W04-103YKK

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

no	date	by	description
A	10.05.06		UPDATED FOR 2004 FBC

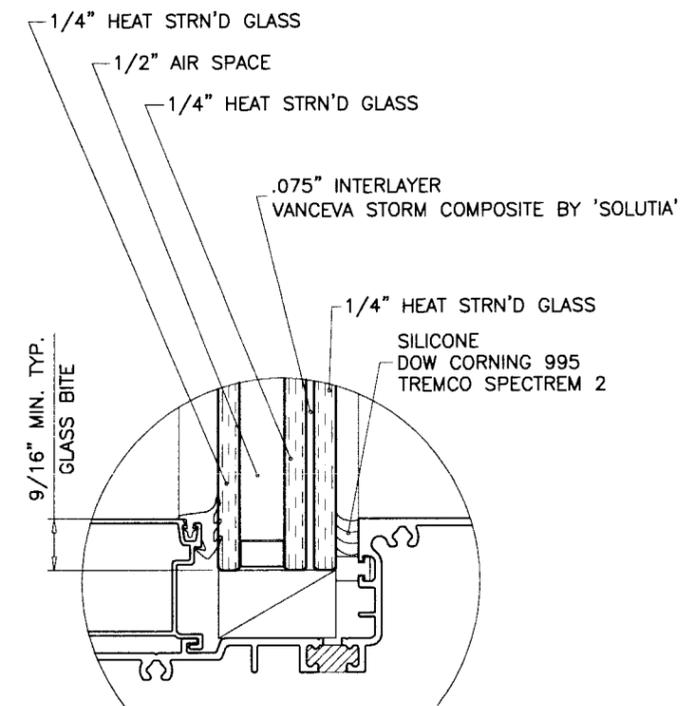
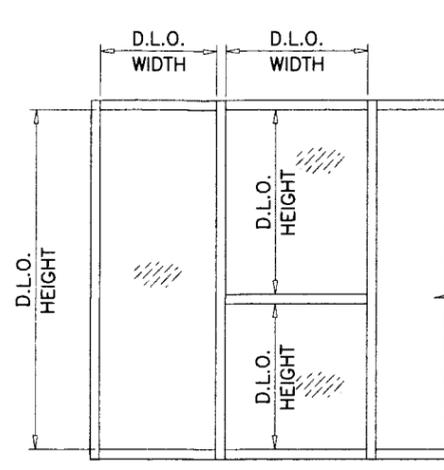
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dr. by: HAMID  
chk. by:

drawing no.  
**W04-103**  
sheet 1 of 8

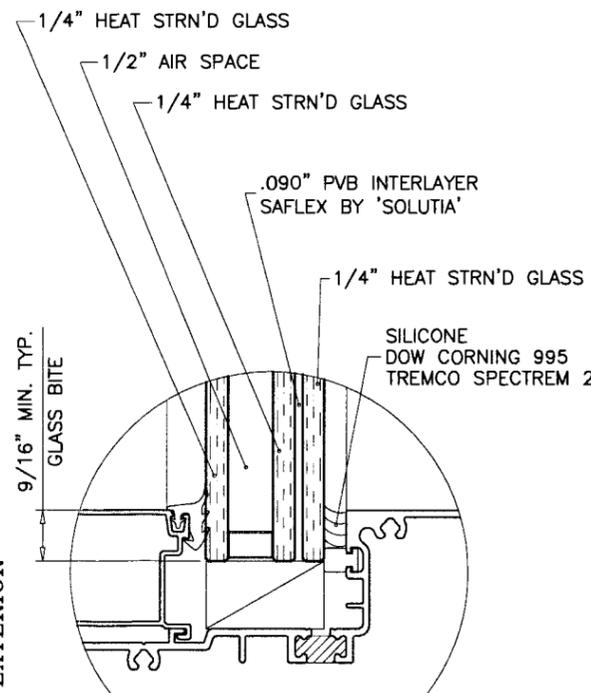
GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPES 'B' & 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24"	55"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	50.0
60"		70.0	50.0
66"		70.0	50.0
72"	70.0	50.0	
24"	61"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	50.0
60"		70.0	50.0
66"		70.0	50.0
72"	70.0	50.0	
24"	67"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	50.0
60"		70.0	50.0
66"		70.0	50.0
72"	70.0	-	
24"	73"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	50.0
60"		70.0	50.0
66"		70.0	-
72"	70.0	-	
24"	79"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	50.0
60"		70.0	-
66"		70.0	-
72"	70.0	-	
24"	85"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	50.0
60"		70.0	-
66"		70.0	-

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPES 'B' & 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24"	91"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	-
60"		70.0	-
72"		70.0	-
24"	97"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	50.0
54"		70.0	-
60"		70.0	-
72"		70.0	-
24"	103"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	-
54"		70.0	-
60"		70.0	-
72"		70.0	-
24"	109"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	50.0
48"		70.0	-
54"		70.0	-
60"		70.0	-
72"		70.0	-
24"	115"	70.0	50.0
30"		70.0	50.0
36"		70.0	50.0
42"		70.0	-
48"		70.0	-
54"		70.0	-
60"		70.0	-
72"		70.0	-

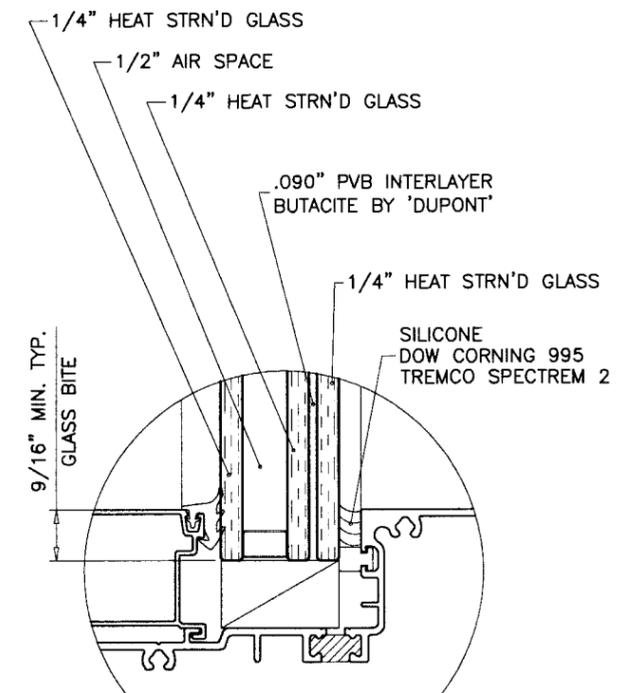
NOTE:  
GLASS CAPACITIES ON THIS SHEET  
ARE BASED ON  
A: ASTM E1300-98 (60 SEC. WIND)  
B: ASTM E1300-02 (3 SEC. GUSTS)



GLASS TYPE 'A'



GLASS TYPE 'B'



GLASS TYPE 'C'

GLAZING OPTIONS

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

*Nov 27 2006*

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **07-0424-02**  
Expiration Date **MAY 12, 2010**

By *Manuel Perez*  
Miami Dade Product Control  
Division

**afC**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE\W04-103YKK

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

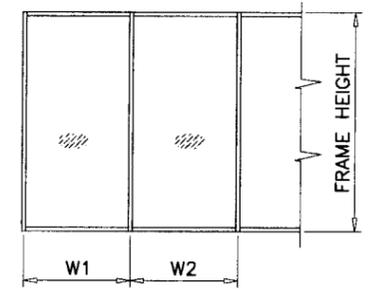
revisions:  
no. date by description  
A 10.05.06 UPDATED FOR 2004 FBC

date: 12-30-04  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W04-103**  
sheet 2 of 8

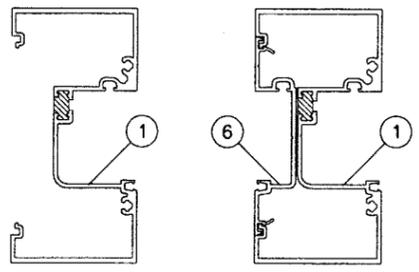
JAMB/MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
24"	72"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		70.0	70.0
66"		70.0	70.0
72"	70.0	70.0	
24"	78"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		50.0	70.0
66"		50.0	70.0
72"	-	70.0	
24"	84"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		50.0	70.0
66"		-	70.0
72"	-	70.0	
24"	90"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		50.0	70.0
60"		-	70.0
66"		-	70.0
72"	-	70.0	
24"	96"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		50.0	70.0
60"		-	70.0
66"		-	70.0
24"	102"	50.0	70.0
30"		50.0	70.0
36"		50.0	70.0
42"		50.0	70.0
48"		50.0	70.0
54"		-	70.0
60"		-	70.0
66"		-	70.0
24"	108"	50.0	70.0
30"		50.0	70.0
36"		50.0	70.0
42"		50.0	70.0
48"		50.0	70.0
54"		-	70.0
60"		-	70.0
66"		-	70.0

JAMB/MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
24"	114"	50.0	70.0
30"		50.0	70.0
36"		50.0	70.0
42"		47.3	70.0
48"		-	70.0
54"		-	63.8
24"	120"	50.0	70.0
30"		50.0	70.0
36"		46.5	70.0
42"		40.4	67.3
48"		-	59.8
54"		-	54.2



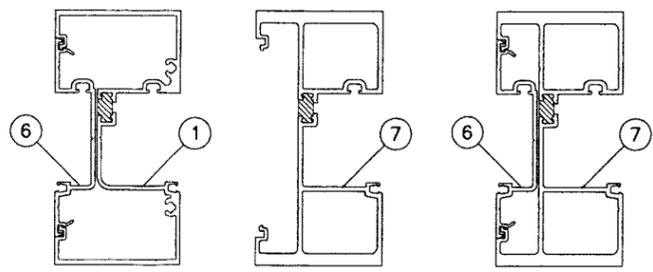
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$$\text{WIDTH (W) AT FRAME JAMB} = W1$$



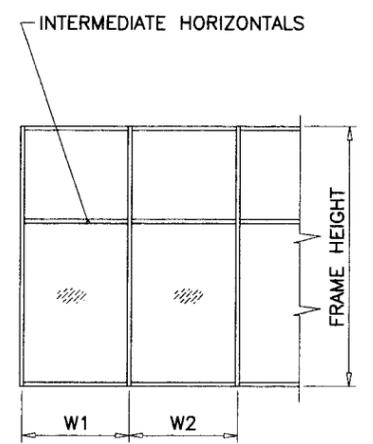
STD. CONFIGURATION

JAMB/MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
24"	78"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"	50.0	70.0	
24"	84"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"	50.0	70.0	
24"	90"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		50.0	70.0
60"	-	70.0	
24"	96"	70.0	70.0
30"		70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		63.3	70.0
54"		50.0	70.0
60"	-	70.0	
24"	102"	50.0	70.0
30"		50.0	70.0
36"		50.0	70.0
42"		50.0	70.0
48"		50.0	70.0
54"		-	70.0
60"	-	70.0	
24"	108"	50.0	70.0
30"		50.0	70.0
36"		50.0	70.0
42"		50.0	70.0
48"		46.2	70.0
54"		-	68.5
60"	-	61.7	



HEAVY CONFIGURATION

JAMB/MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.
WIDTH (W)	FRAME HEIGHT	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
24"	114"	50.0	70.0
30"		50.0	70.0
36"		50.0	70.0
42"		44.9	70.0
48"		-	65.6
54"		-	58.3
24"	120"	50.0	70.0
30"		50.0	70.0
36"		44.9	70.0
42"		38.5	64.2
48"		-	56.2
54"		-	50.0



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

$$\text{WIDTH (W) AT FRAME JAMB} = W1$$

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538  
*Nov 27 2006*

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. *07-0424-02*  
Expiration Date *12/12/2010*  
By *Manuel Perez*  
Miami Dade Product Control  
Division

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE W04-103YKK

YHS 50 TU ALUM STOREFRONT SYSTEM (L.M.I.)  
**YKK AP AMERICA INC.**  
332 FIRETOWER ROAD  
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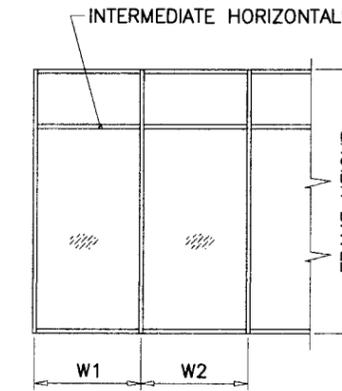
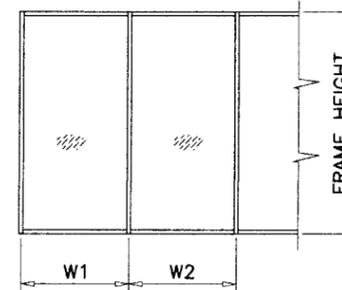
revisions:  
no. date by description  
A 10.05.06 by description UPDATED FOR 2004 FBC

date: 12-30-04  
scale:  
dr. by: HAMID  
chk. by:

drawing no. **W04-103**  
sheet 3 of 8

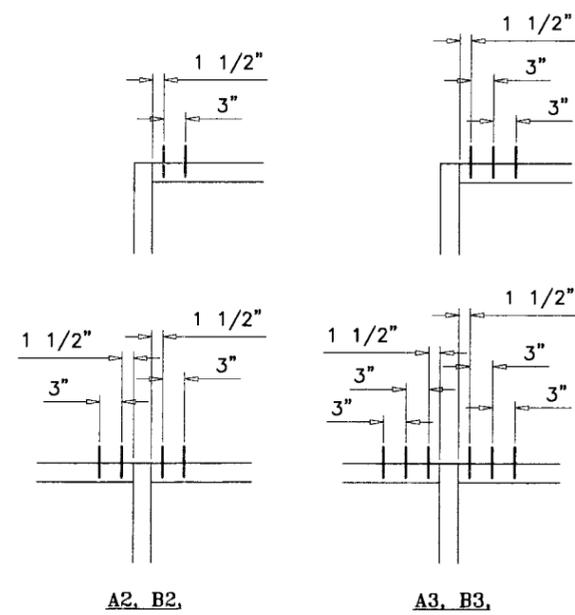
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
24"	60"	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0
72"	70.0	70.0	70.0	70.0	
24"	66"	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0
72"	70.0	70.0	70.0	70.0	
24"	72"	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0
72"	70.0	70.0	70.0	70.0	
24"	78"	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0
66"		70.0	70.0	70.0	70.0
72"	65.4	70.0	70.0	70.0	
24"	84"	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		70.0	70.0	70.0	70.0
66"		66.3	70.0	70.0	70.0
72"	60.8	70.0	70.0	70.0	
24"	90"	70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0
36"		70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0
54"		70.0	70.0	70.0	70.0
60"		68.1	70.0	70.0	70.0
66"		61.9	70.0	70.0	70.0
72"	56.7	70.0	70.0	70.0	

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3	
24"	96"	70.0	70.0	70.0	70.0	
30"		70.0	70.0	70.0	70.0	
36"		70.0	70.0	70.0	70.0	
42"		70.0	70.0	70.0	70.0	
48"		70.0	70.0	70.0	70.0	
54"		70.0	70.0	70.0	70.0	
60"		63.8	70.0	70.0	70.0	
66"		58.0	70.0	70.0	70.0	
24"	102"	70.0	70.0	70.0	70.0	
30"		70.0	70.0	70.0	70.0	
36"		70.0	70.0	70.0	70.0	
42"		70.0	70.0	70.0	70.0	
48"		70.0	70.0	70.0	70.0	
54"		66.7	70.0	70.0	70.0	
60"		60.0	70.0	70.0	70.0	
24"		108"	70.0	70.0	70.0	70.0
30"	70.0		70.0	70.0	70.0	
36"	70.0		70.0	70.0	70.0	
42"	70.0		70.0	70.0	70.0	
48"	70.0		70.0	70.0	70.0	
54"	63.0		70.0	70.0	70.0	
60"	56.7		70.0	70.0	70.0	
24"	114"		70.0	70.0	70.0	70.0
30"		70.0	70.0	70.0	70.0	
36"		70.0	70.0	70.0	70.0	
42"		70.0	70.0	70.0	70.0	
48"		67.2	70.0	70.0	70.0	
54"		59.7	70.0	70.0	70.0	
24"		120"	70.0	70.0	70.0	70.0
30"			70.0	70.0	70.0	70.0
36"	70.0		70.0	70.0	70.0	
42"	70.0		70.0	70.0	70.0	
48"	63.8		70.0	70.0	70.0	
54"	56.7		70.0	70.0	70.0	



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

$$\text{WIDTH (W) AT FRAME JAMB} = W1$$



**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  
B3 = (3) 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

NOV 27 2009

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 07-0424.02  
Expiration Date MAY 12, 2010

By: *Hamid*  
Product Control

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
STORE \W04-103YKK

YHS 50 TU ALUM STOREFRONT SYSTEM (L.M.I.)

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

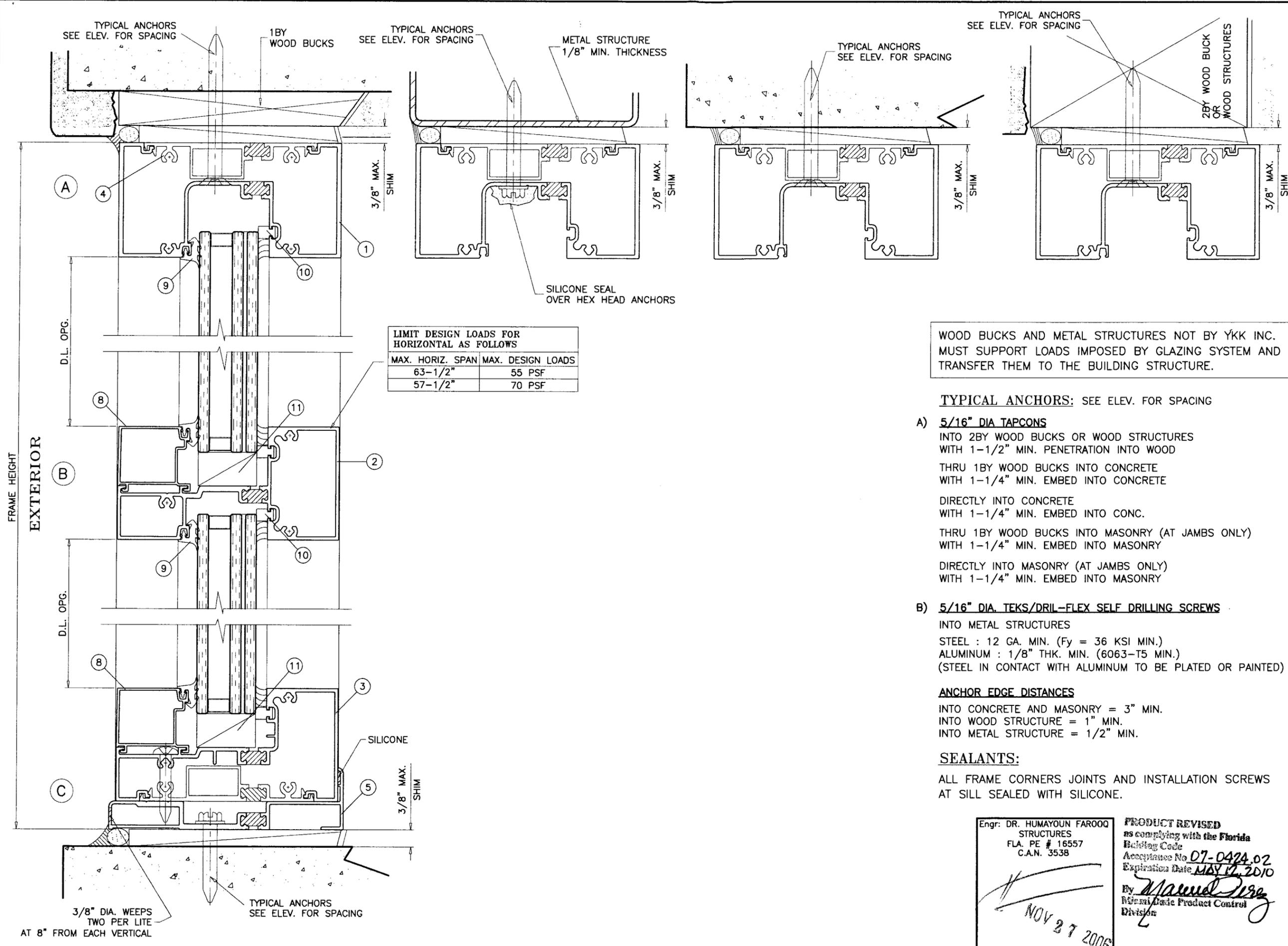
**YKK AP**

no	date	description
A	10.05.06	UPDATED FOR 2004 FBC

revisions:

date: 12-30-04  
scale:  
dr. by: HAMID  
chk. by:

drawing no. **W04-103**  
sheet 4 of 8



**LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS**

MAX. HORIZ. SPAN	MAX. DESIGN LOADS
63-1/2"	55 PSF
57-1/2"	70 PSF

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

- 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.  
 THRU 1BY WOOD BUCKS INTO MASONRY (AT JAMBS ONLY) WITH 1-1/4" MIN. EMBED INTO MASONRY  
 DIRECTLY INTO MASONRY (AT JAMBS ONLY) WITH 1-1/4" MIN. EMBED INTO MASONRY
  - 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" MIN.  
 INTO METAL STRUCTURE = 1/2" MIN.

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

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

NOV 27 2006

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acquisition No. 07-0424.02  
 Expiration Date MAY 10, 2010

By: *Mauro Dize*  
 Miami Dade Product Control  
 Division

**afC**  
**AL-FAROOQ CORPORATION**  
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 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 STORE W04-103YKK

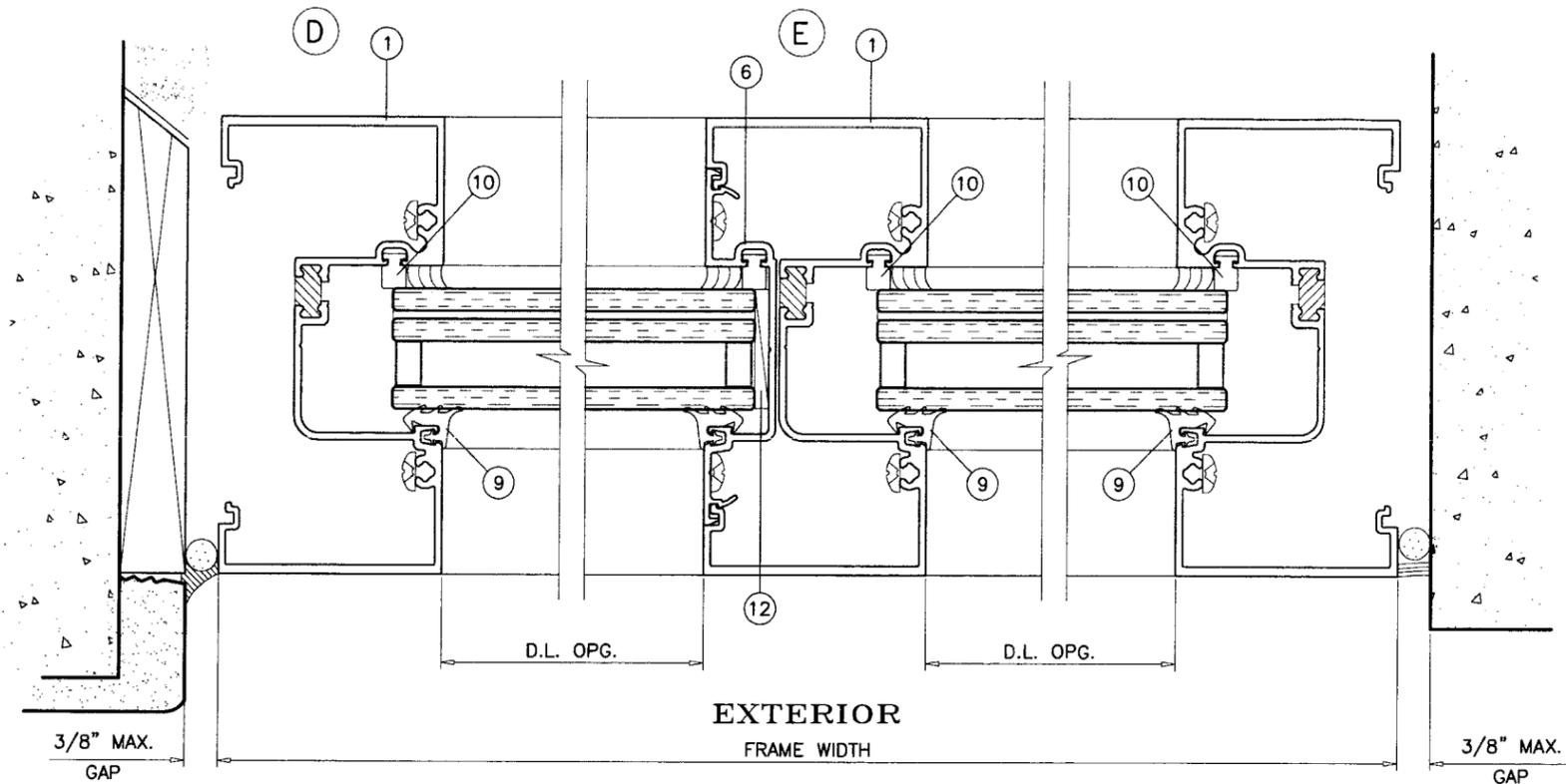
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**YKK AP AMERICA INC.**  
 332 FIRETOWER ROAD  
 DUBLIN, GEORGIA 31021  
 TEL.(478) 277-1955 FAX(478) 277-1978

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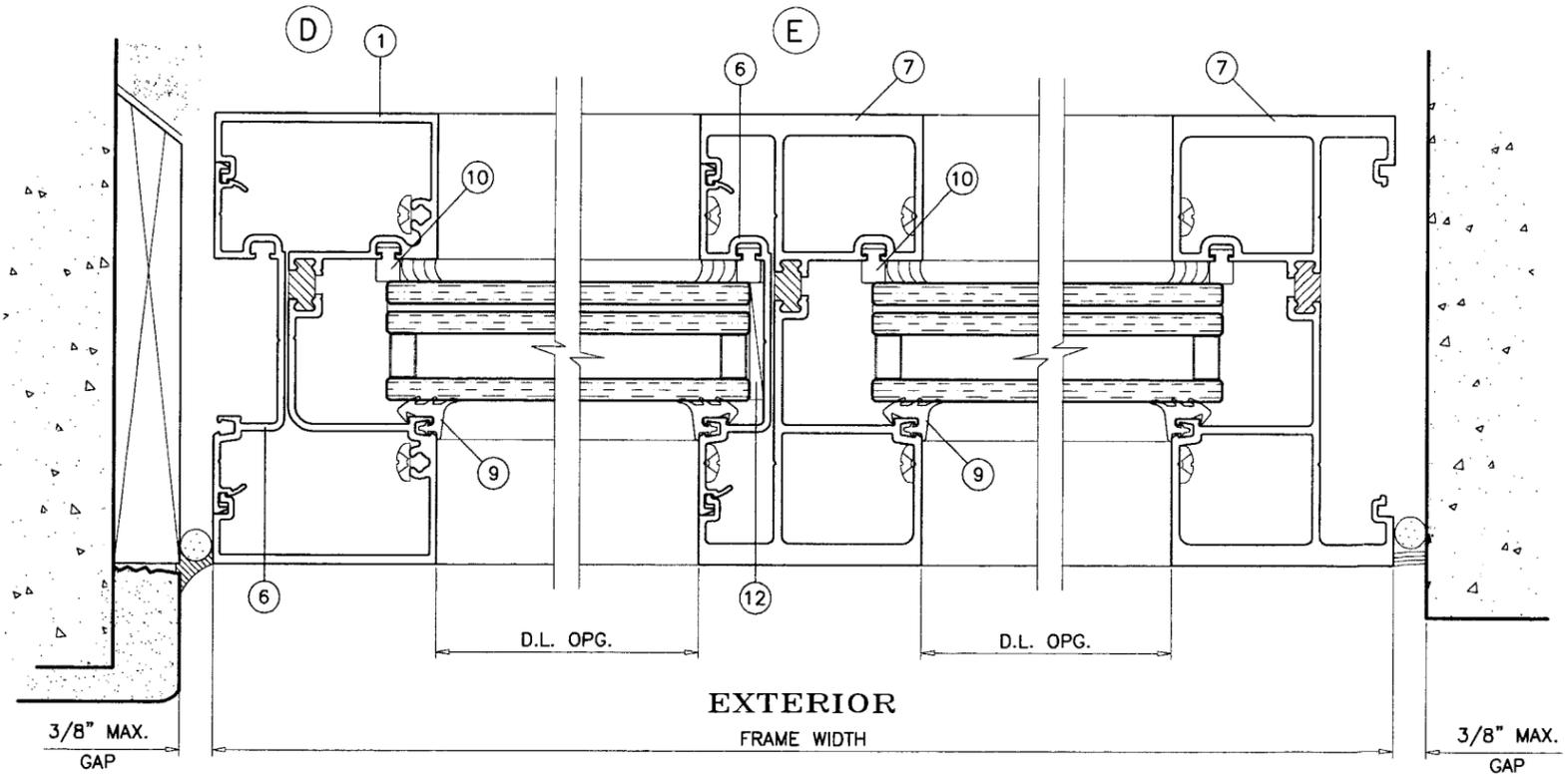
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 dr. by: HAMID  
 chk. by:

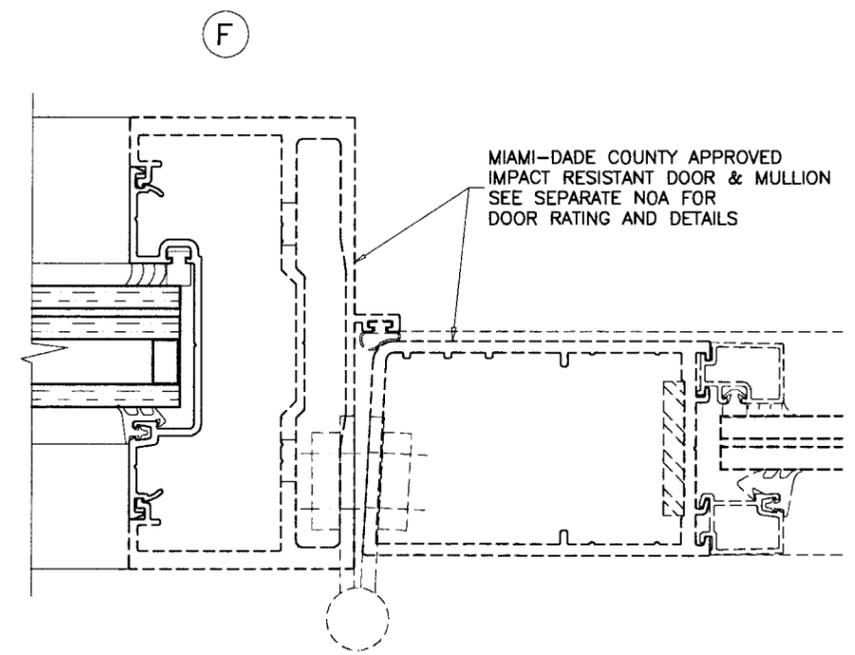
drawing no. **W04-103**  
 sheet 5 of 8



STD. CONFIGURATION



HEAVY CONFIGURATION



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

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 07-042A-02  
Expiration Date MAY 12, 2010

NOV 27 2008

By: *Manuel Perez*  
Miami Dade Product Control  
Division

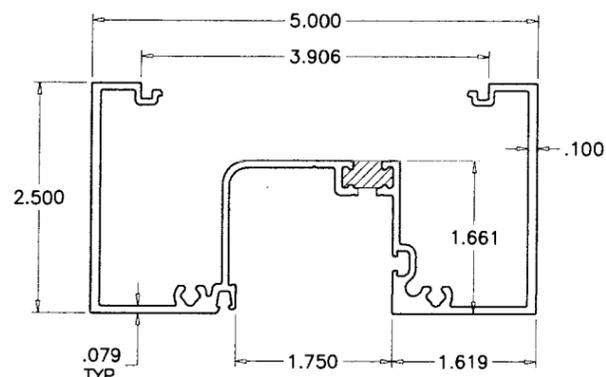
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**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
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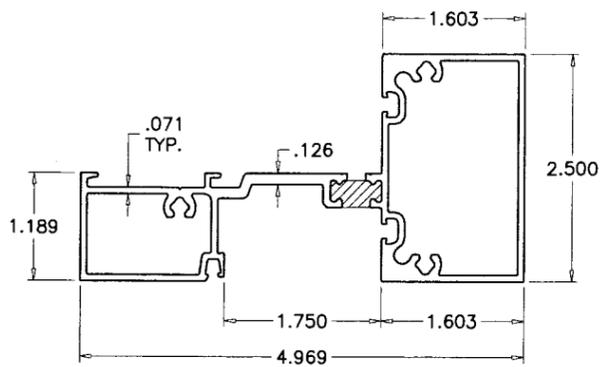
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dr. by: HAMID  
chk. by:

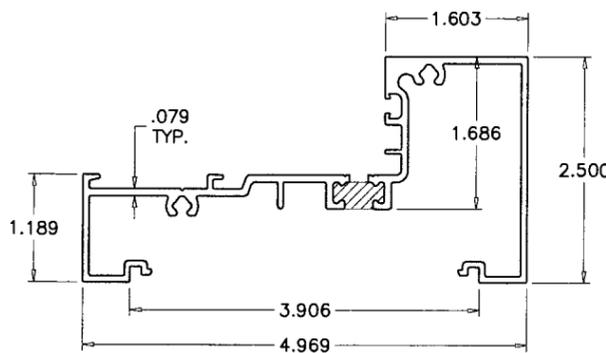
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**W04-103**  
sheet 6 of 8



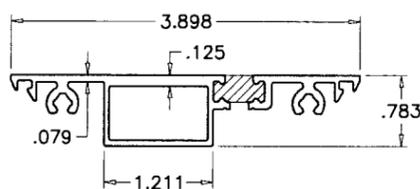
① FRAME HEAD/SILL/JAMB



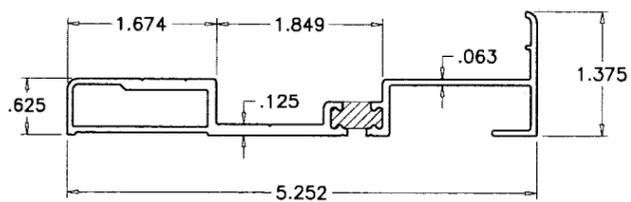
② FRAME HORIZONTAL



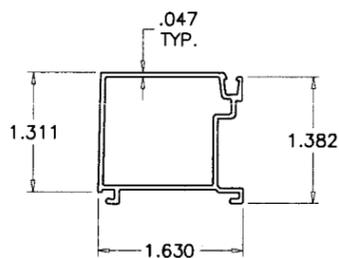
③ FRAME SILL



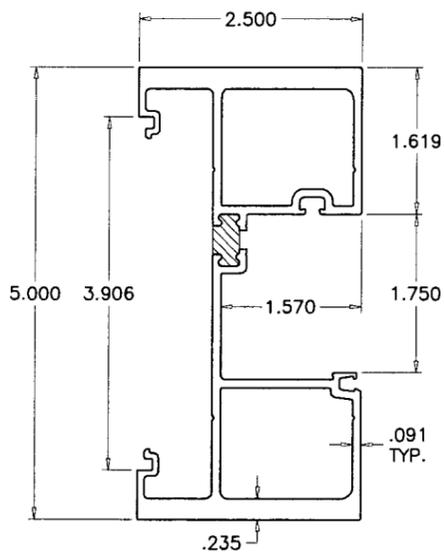
④ FLAT FILLER



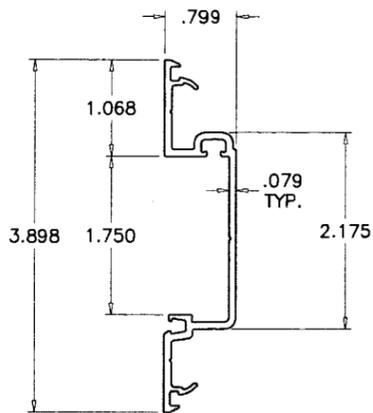
⑤ SILL FLASHING



⑧ GLAZING STOP



⑦ HEAVY DUTY MULLION



⑥ SHALLOW POCKET FILLER

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	BE9-0681	AS NEEDED	FRAME HEAD/SILL/JAMB	6063-T5	-
2	BE9-0683	AS NEEDED	FRAME HORIZONTAL	6063-T5	-
3	BE9-0682	AS NEEDED	FRAME SILL	6063-T5	-
4	E1-1060	AS NEEDED	FLAT FILLER	6063-T5	-
5	BE9-0686	AS NEEDED	SILL FLASHING	6063-T5	-
6	BE9-0655	AS NEEDED	SHALLOW POCKET FILLER	6063-T5	-
7	BE9-0684	AS NEEDED	HEAVY DUTY MULLION	6063-T5	-
8	E9-0658	AS NEEDED	GLAZING STOP	EPDM	-
9	E2-0083	AS NEEDED	EXTERIOR GLAZING GASKET	EPDM	-
10	E2-0084	AS NEEDED	INTERIOR SILICONE SPACER	EPDM	-
11	E2-0095	AS NEEDED	SETTING BLOCK	EPDM	-
12	E2-0096	AS NEEDED	SIDE BLOCK	EPDM	-
13	PC-1220	AS NEEDED	ASSEMBLY SCREWS PHSMS	CRS	#12 X 1-1/4" PPH SMS
14	PC-1424	AS NEEDED	FOR SILL	CRS	#14 X 1-1/2" PPH SMS

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

NOV 27 2008

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 07-0424-02  
Expiration Date MAY 12, 2010  
Miami Trade Product Control  
Division

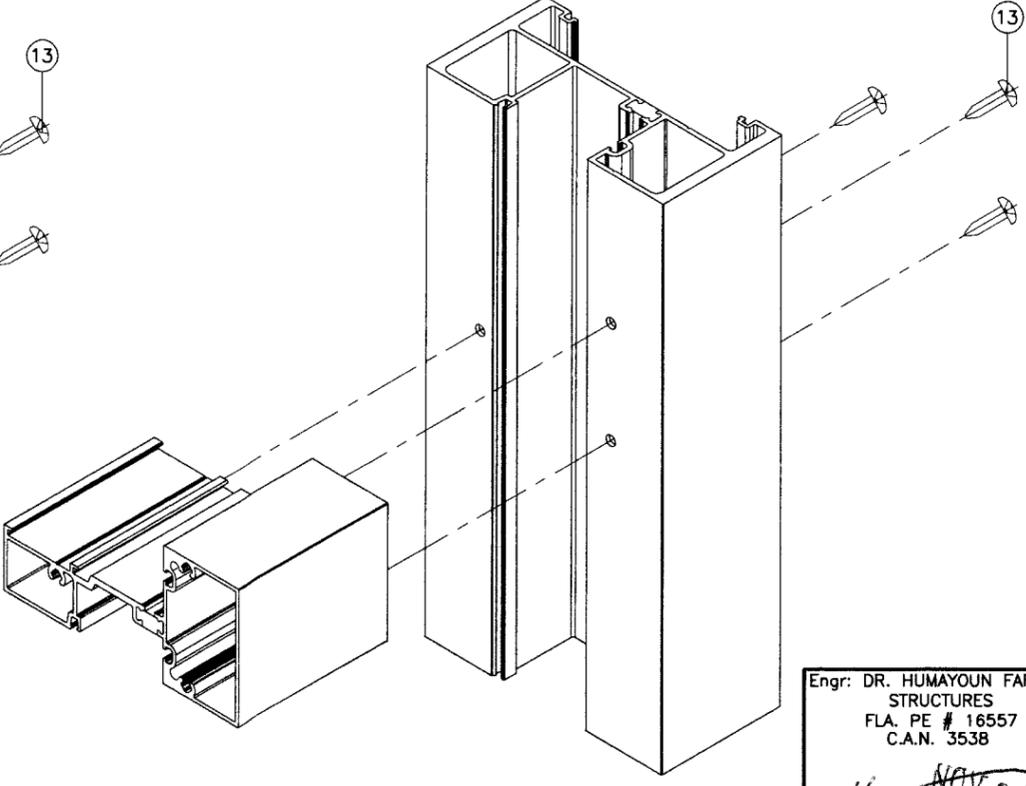
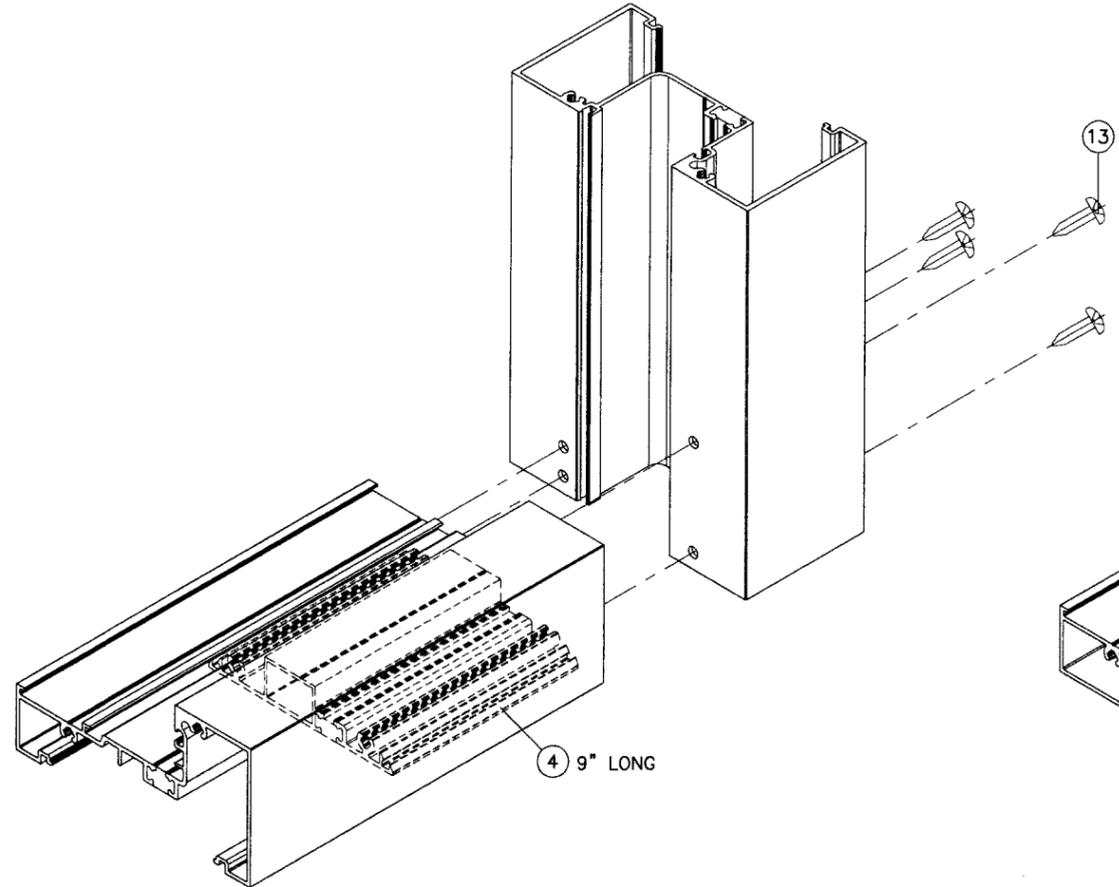
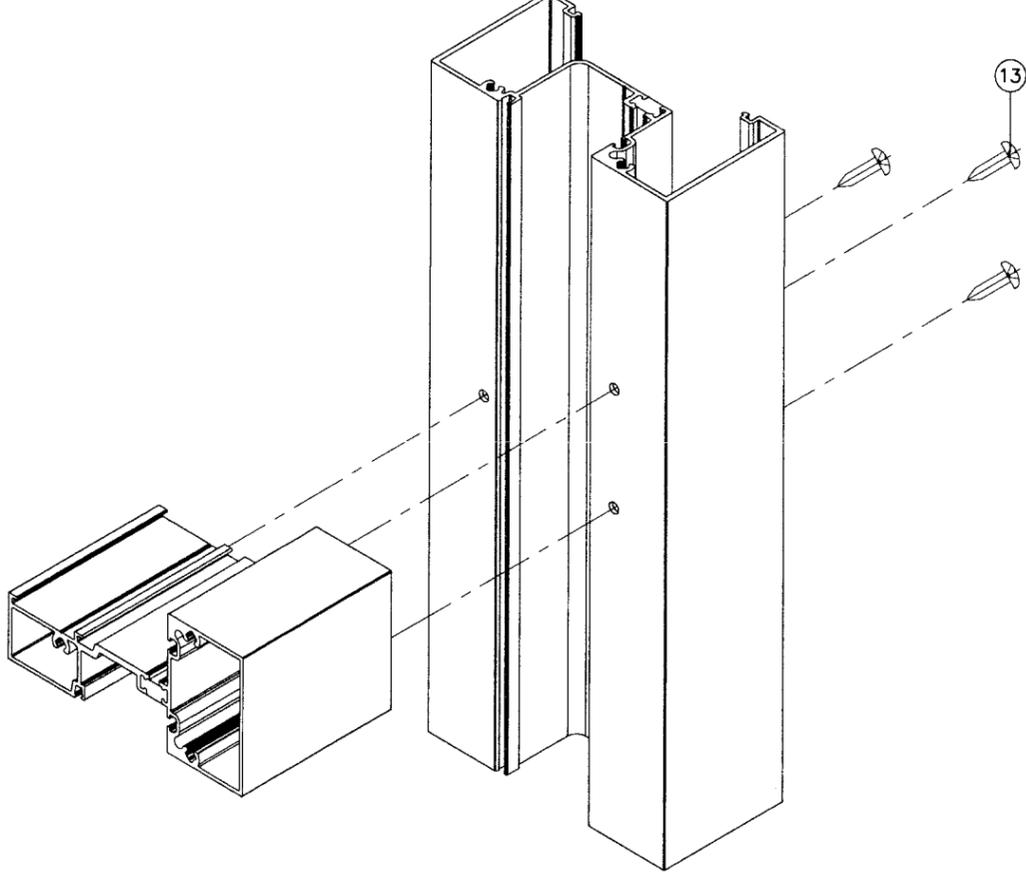
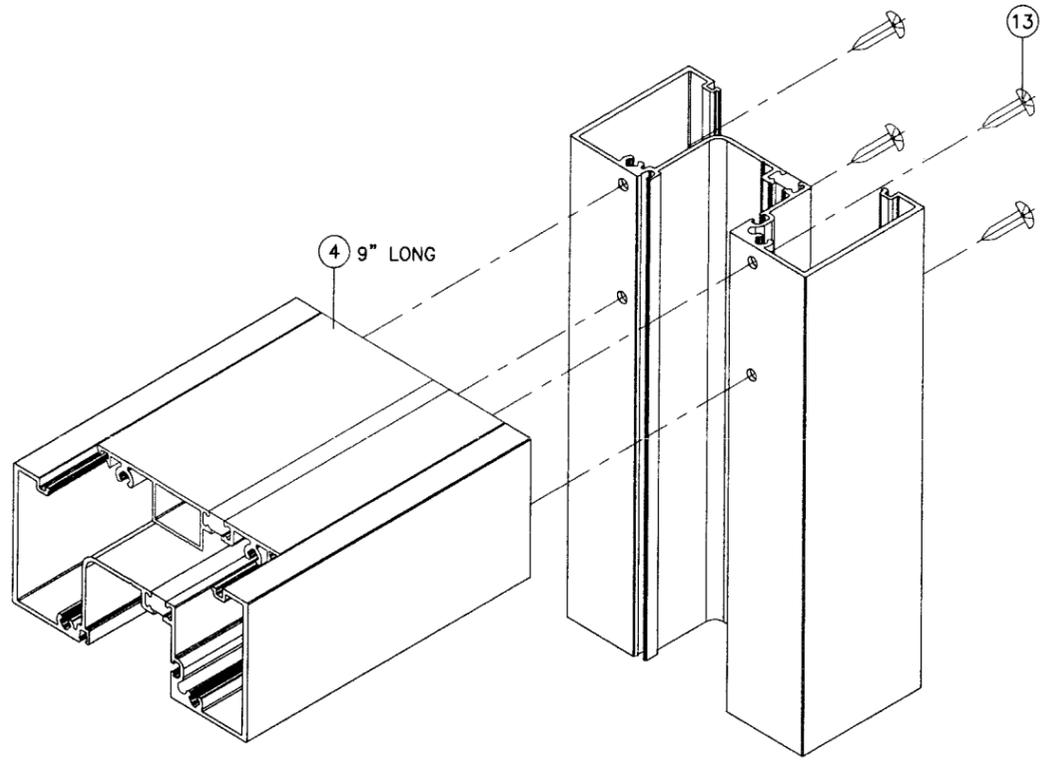
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**AL-FAROOQ CORPORATION**  
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STORE/W04-103YKK

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

no.	date	by	description
A	10.05.06		description UPDATED FOR 2004 FBC

date: 12-30-04  
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dr. by: HAMID  
chk. by:

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**W04-103**  
sheet 7 of 8



FRAME CORNERS

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

**PRODUCT REVISED**  
as complying with the Florida  
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Acceptance No. 07-0424-02  
Expiration Date MAY 12, 2010  
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chk. by:  
Wilson Bada Product Control  
Division

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**YKK AP**

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sheet 8 of 8