



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

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

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 FS Flush Glazed Aluminum Storefront System (N.J.) – L.M.I.
(Without jamb anchors)

APPROVAL DOCUMENT: Drawing No. **W02-04**, titled "YHS-50 FS Alum. Flush Glaze Storefront Sys. (L.M.) (N.J.)", sheets 1 through 7 of 7, dated 01/20/02 with revision D dated 08/28/06, 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 and renews NOA # 02-0215.17** 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. 06-1026.09
Expiration Date: September 19, 2012
Approval Date: December 28, 2006
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W02-04**, Sheets 1 through 7 of 7, titled "YHS-50 FS Alum. Flush Glaze Storefront Sys. (L.M.) (N.J.)", dated 01/20/02 with revision D dated 08/28/06, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Large Missile Impact Test, SFBC PA 201-94
 - 2) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of an aluminum storefront system marked-up by National Certified Testing Laboratories, Inc. Test Reports Nos. **NCTL-210-2627-4 (Elevation E)** and **6 (Elevation H)**, dated 12/19/00 and 03/07/01 respectively, signed and sealed by Barry D. Portnoy, P.E. (This test report has been revised per addendum letter dated June 20, 2002 issued by National Certified Testing Laboratories, Inc, signed and sealed by Barry Portnoy, P.E. *(Submitted under NOA #02-0215.17)*)
2. Test reports on
 - 1) Large Missile Impact Test
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94along with additional supporting evidence of an aluminum storefront system marked-up by Hurricane Test Laboratory, LLC, Test Reports Nos. **HTL-0231-0111-05**, dated 02/10/05, signed and sealed by Vinu Abraham, P.E. *(Submitted under NOA #02-0215.17)*

C. CALCULATIONS:

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 09/07/06, signed and sealed by Humayoun Farooq, P.E. **Complies with ASTM E1300-02**
2. Anchor Calculations and structural analysis, prepared by Al-Farooq Corporation, dated 01-21-01 and last revised on 06-10-02, signed and sealed by Dr. Humayoun Farooq, P.E. *(Submitted under NOA #02-0215.17)*

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 06-1026.09
Expiration Date: September 19, 2012
Approval Date: December 28, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **01-0205.02** issued to Solutia Inc, for “Saflex /Keepsafe Max”, expiring on 05/21/2006.
2. Notice of Acceptance No. **00-1212.04** issued to E.I. Dupont De Nemour. for “Dupont Butacite PVB”, expiring on 12/11/2005.

F. STATEMENTS

1. Statement letter of conformance, dated September 7, 2006, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated September 7, 2006, signed and sealed by Humayoun Farooq, P.E.

G. OTHER

1. Notice of Acceptance No. **02-0215.17**, issued to YKK AP America for their Series “YHS-50” Aluminum Glazed Storefront System (NJ)-Large Missile Impact, approved on 09/19/02 and expiring on 09/19/07.

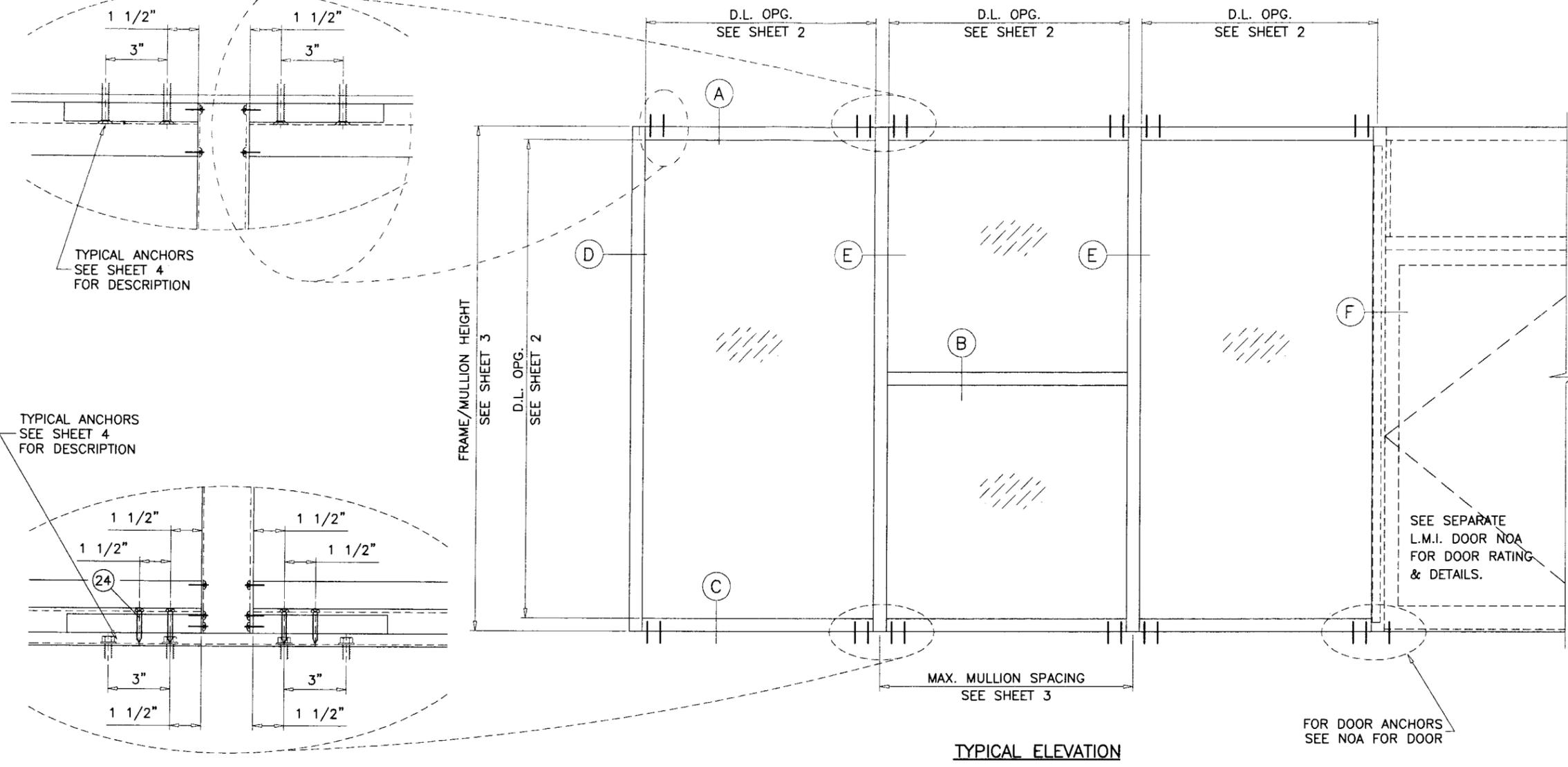


Manuel Perez, P.E.
Product Control Examiner

NOA No. 06-1026.09

Expiration Date: September 19, 2012

Approval Date: December 28, 2006



**SERIES YHS-50 FS STD. DUTY (WITHOUT JAMB ANCHORS)
ALUMINUM FLUSH GLAZED STOREFRONT SYSTEM**

SEE SEPARATE NOA FOR ADDITIONAL OPTIONS INCLUDING REINFORCEMENTS

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 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** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3
SHALL APPLY TO ENTIRE SYSTEM.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3538
APCT 17 2008

PRODUCT REVISED
as comply with the Florida
Building Code
Acceptance Pa. *06-1026.09*
Expiration Date *SEPT. 19, 2012*
By *Michael Perez*
Miami Made Product Control
2/15/12

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 W02-04YKK

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

YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (L.M.) (N.U.)

no	date	by	description
A	06.17.02	REV. PER BCCO COMMENTS	
B	07.23.02	REV. PER BCCO COMMENTS	
C	08.24.02	REV. PER BCCO COMMENTS	
D	08.28.06	UPDATED FOR 2004 FBC	

revisions:

date: 01-20-02
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

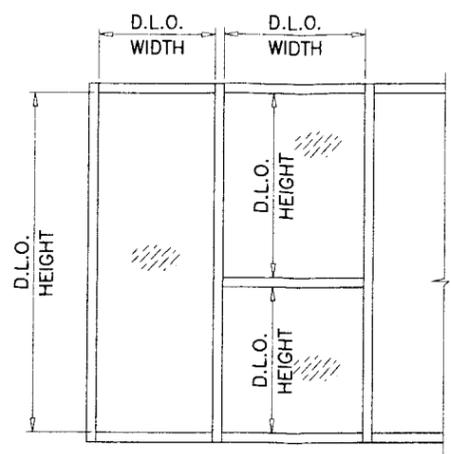
drawing no.
W02-04

sheet 1 of 7

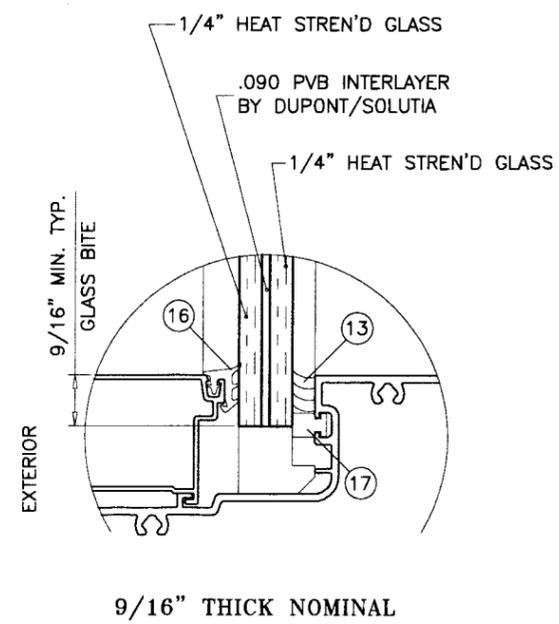
GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		9/16" LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	
24"	66"	65.0	
30"		65.0	
36"		65.0	
42"		65.0	
48"		65.0	
54"		65.0	
57-1/2"		65.0	
60"		65.0	
66"		65.0	
69-1/2"		65.0	
24"	72"	65.0	
30"		65.0	
36"		65.0	
42"		65.0	
48"		65.0	
54"		65.0	
57-1/2"		65.0	
60"		65.0	
24"		78"	65.0
30"			65.0
36"	65.0		
42"	65.0		
48"	65.0		
54"	65.0		
57-1/2"	65.0		
24"	80-7/8"		65.0
30"			65.0
36"			65.0
42"		65.0	
48"		65.0	
54"		65.0	
57-1/2"		65.0	
24"		84"	65.0
30"			65.0
36"			65.0
42"	65.0		
48"	65.0		
54"	65.0		
24"	90"		65.0
30"			65.0
36"			65.0
42"			65.0
48"		65.0	
24"		96"	65.0
30"			65.0
36"			65.0
42"			65.0
48"			65.0

GLASS DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		9/16" LAM. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
24"	102"	65.0
30"		65.0
36"		65.0
42"		65.0
24"	108"	65.0
30"		65.0
36"		65.0
42"		65.0
24"	120"	65.0
30"		65.0
36"		65.0
39"		65.0

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



GLASS CHARTS



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

OCT 17 2006

PRODUCT REVISED
as complying with the Florida
Building Code
Drawing No. 06-1026-09
Issue Date SEPT. 19, 2012

By: *Hamid Peraz*
Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W02-04YKK

YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (L.M.) (N.J.)

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

no.	date	description
D	08.28.06	UPDATED FOR 2004 FBC

date:	01-20-02
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

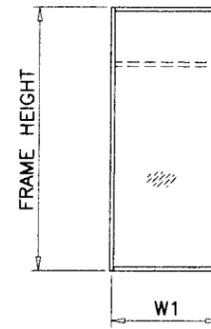
drawing no.
W02-04

sheet 2 of 7

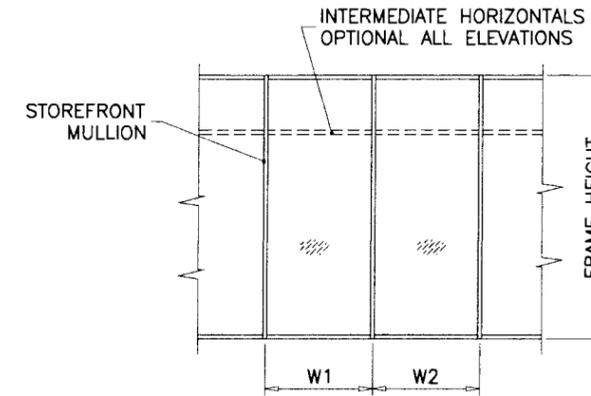
NOMINAL DIMS.		DESIGN LOAD CAPACITY-PSF JAMB/MULLION	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
36"	72"	65.0	65.0
39"		65.0	65.0
42"		65.0	65.0
45"		65.0	65.0
48"		65.0	65.0
51"		65.0	65.0
54"		65.0	65.0
57"		65.0	65.0
60"		65.0	65.0
63"		65.0	65.0
66"		65.0	65.0
69"		65.0	65.0
72"	65.0	65.0	
36"	78"	65.0	65.0
39"		65.0	65.0
42"		65.0	65.0
45"		65.0	65.0
48"		65.0	65.0
51"		65.0	65.0
54"		65.0	65.0
57"		65.0	65.0
60"		65.0	65.0
63"		65.0	65.0
66"		65.0	65.0
69"		60.0	60.0
72"	60.0	60.0	
36"	84"	65.0	65.0
39"		65.0	65.0
42"		65.0	65.0
45"		65.0	65.0
48"		65.0	65.0
51"		65.0	65.0
54"		65.0	65.0
57"		65.0	65.0
60"		65.0	65.0
63"		60.0	60.0
66"		60.0	60.0
69"		60.0	60.0
36"	86-1/2"	65.0	65.0
39"		65.0	65.0
42"		65.0	65.0
45"		65.0	65.0
48"		65.0	65.0
51"		65.0	65.0
54"		65.0	65.0
57"		65.0	65.0
60"		65.0	65.0
63"		60.0	60.0
66"		60.0	60.0
69"		60.0	60.0

NOMINAL DIMS.		DESIGN LOAD CAPACITY-PSF JAMB/MULLION	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
36"	90"	65.0	65.0
39"		65.0	65.0
42"		65.0	65.0
45"		65.0	65.0
48"		65.0	65.0
51"		65.0	65.0
54"		64.1	64.1
57"		60.7	60.7
60"		60.0	60.0
63"		60.0	60.0
66"		60.0	60.0
69"		60.0	60.0
72"	60.0	60.0	
36"	96"	65.0	65.0
39"		65.0	65.0
42"		65.0	65.0
45"		63.4	63.4
48"		60.0	60.0
51"		60.0	60.0
54"		60.0	60.0
57"		60.0	60.0
60"		60.0	60.0
63"		60.0	60.0
66"		60.0	60.0
69"		60.0	60.0
72"	60.0	60.0	
36"	102"	65.0	65.0
39"		61.0	61.0
42"		60.0	60.0
45"		60.0	60.0
48"		60.0	60.0
51"		60.0	60.0
54"		60.0	60.0
57"		58.5	58.5
60"		60.0	60.0
63"		60.0	60.0
66"		60.0	60.0
69"		60.0	60.0
72"	60.0	60.0	
36"	108"	60.0	60.0
39"		60.0	60.0
42"		60.0	60.0
45"		60.0	60.0
48"		58.6	58.6
51"		55.1	55.1
54"		52.1	52.1
60"		60.0	60.0
63"		60.0	60.0
66"		60.0	60.0
69"		60.0	60.0
72"		60.0	60.0
36"	114"	60.0	60.0
39"		56.9	56.9
42"		53.1	53.1
45"		49.8	49.8
48"		46.9	46.9
51"		56.9	56.9
54"		52.6	52.6
60"		60.0	60.0
63"		60.0	60.0
66"		60.0	60.0
69"		60.0	60.0
72"		60.0	60.0
36"	120"	56.9	56.9
39"		52.6	52.6
42"		48.8	48.8
45"		45.5	45.5
48"		42.7	42.7

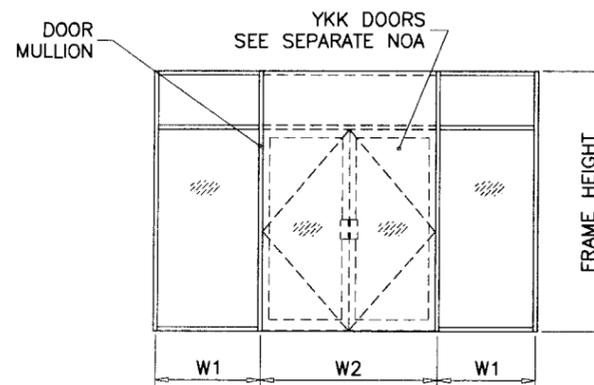
MULLION CAPACITY CHARTS



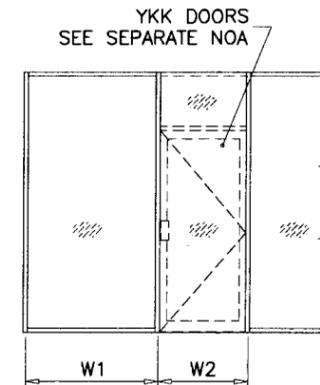
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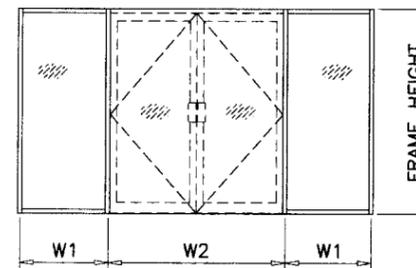
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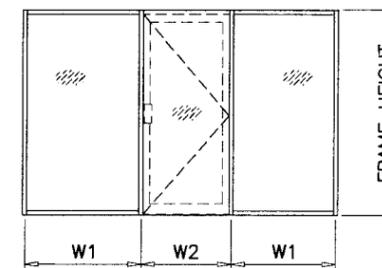
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



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



$$\text{WIDTH (W)} = \frac{W1}{2} + \frac{W2}{4}$$



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

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

OCT 17 2005

PRODUCT REVISED
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Expiration Date SEPT. 19, 2012

Dr. Manuel Pera
Miami Trade Product Control
Division

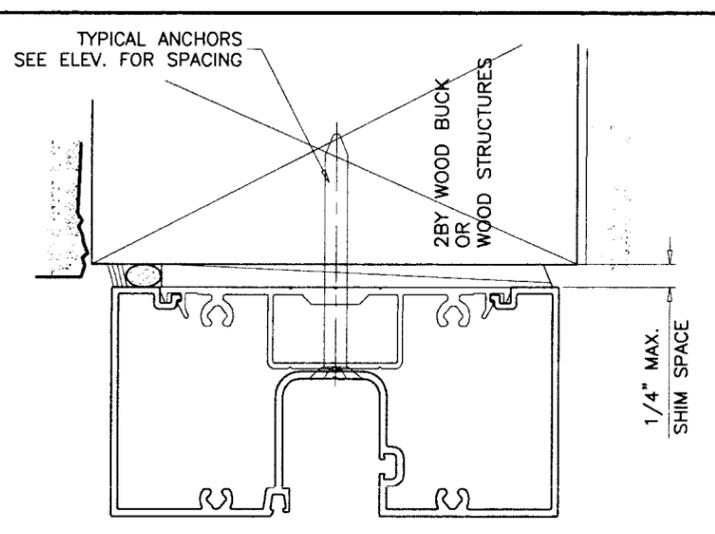
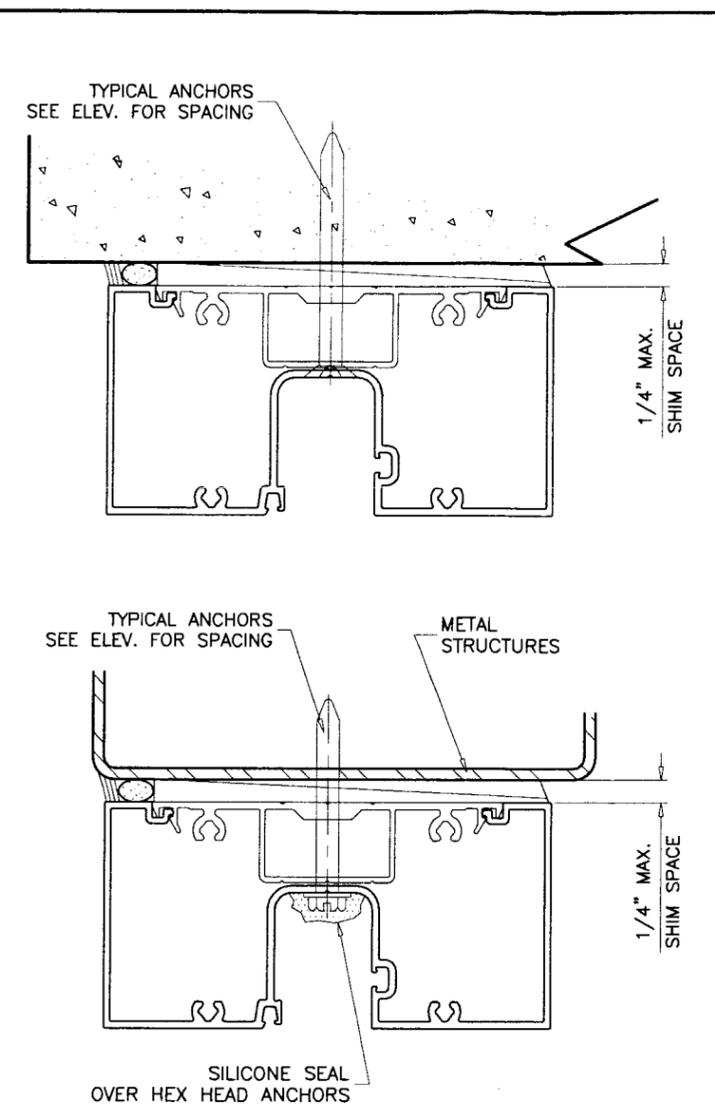
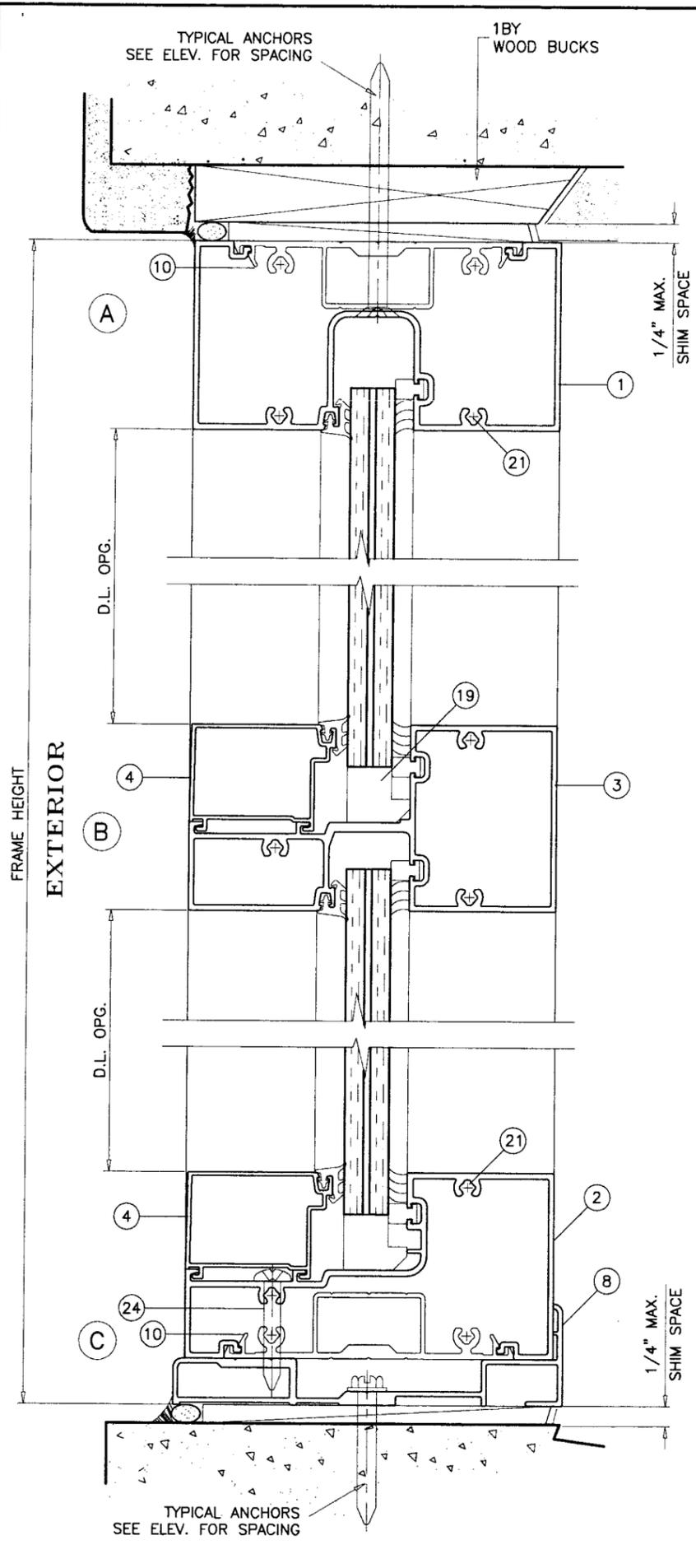
afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE/WO2-04YKK

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

revisions:	no	date	by	description

date: 01-20-02
scale: 1/2"=1'-0"
dr. by: H-AMID
chk. by:

drawing no.
W02-04
sheet 3 of 7



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCONS
 INTO 2BY WOOD BUCK OR WOOD STRUCTURES WITH 1-1/2" MIN. PENETRATION INTO WOOD THRU 1BY WOOD BUCKS INTO MASONRY WITH 1-1/4" MIN. EMBED INTO CONC. OR MASONRY DIRECTLY INTO MASONRY WITH 1-1/4" MIN. EMBED INTO MASONRY

1/4" DIA. TEKS/DRIL-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 = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

SEALANTS:
 ALL FRAME CORNERS SEALED WITH DOW-795 SILICONE SEALANT.

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

OCT 17 2006

PRODUCT DEVELOPMENT
 as complying with the Florida
 Building Code
 Acceptance No. 06-1026.09
 Expiration Date: SEPT. 19, 2012

By: *Muhammad Peraz*
 Metal Clad 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/W02-04YKK

YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (L.M.) (N.J.)

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

YKK AP

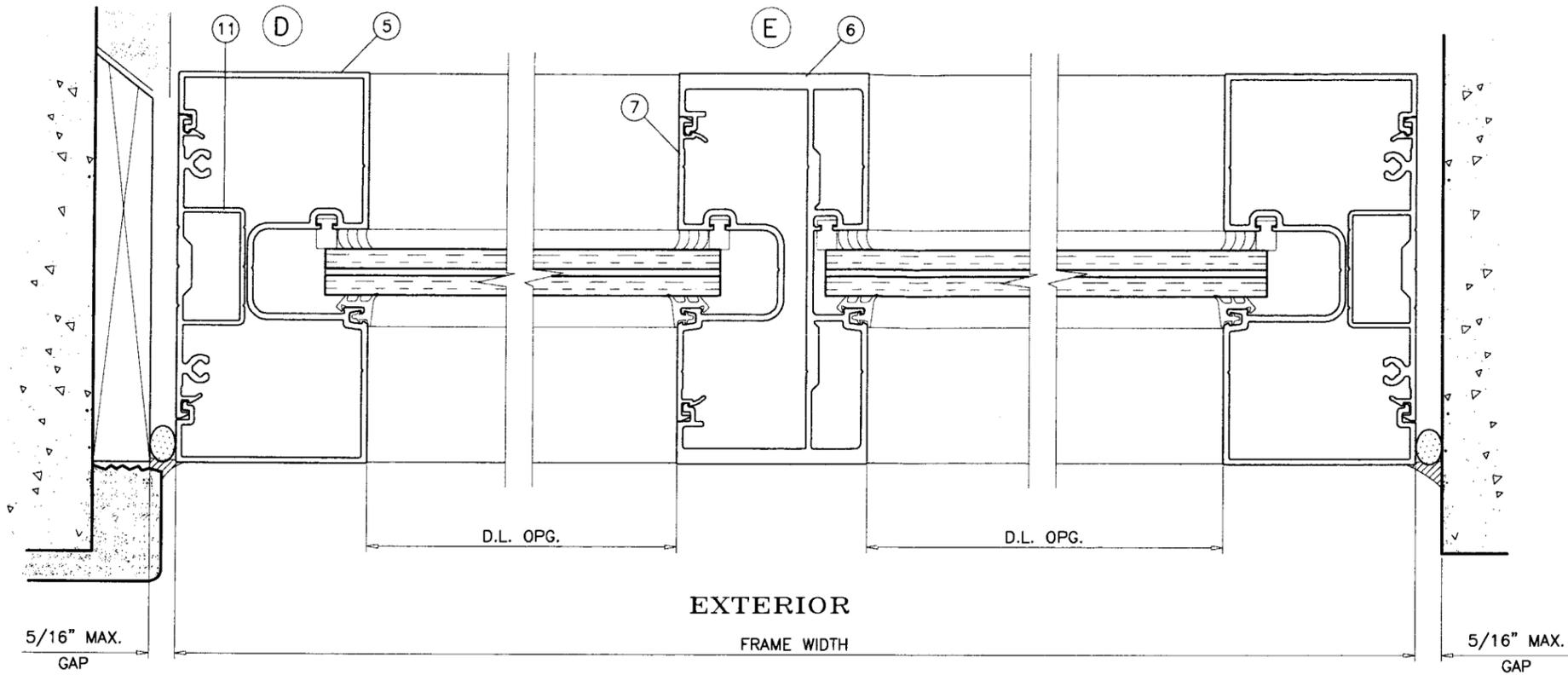
no	date	description
D	06.28.06	UPDATED FOR 2004 FBC

revisions:

date: 01-20-02
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W02-04

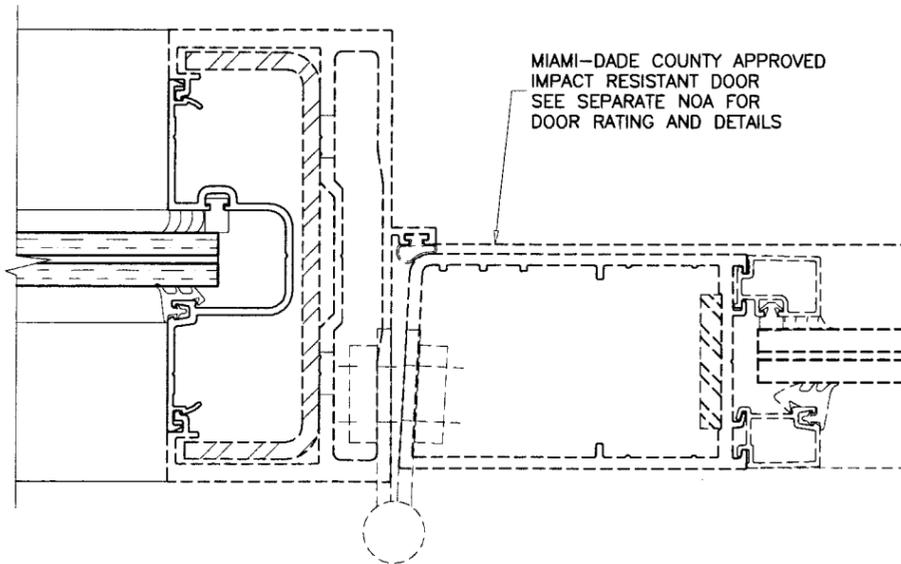
sheet 4 of 7



EXTERIOR

FRAME WIDTH

F



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

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16567
C.A.N. 3538

H
OCT 17 2006

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 06-1026-09
Expiration Date: SEPT. 19, 2012

Hamid
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 \W02-04YKK

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

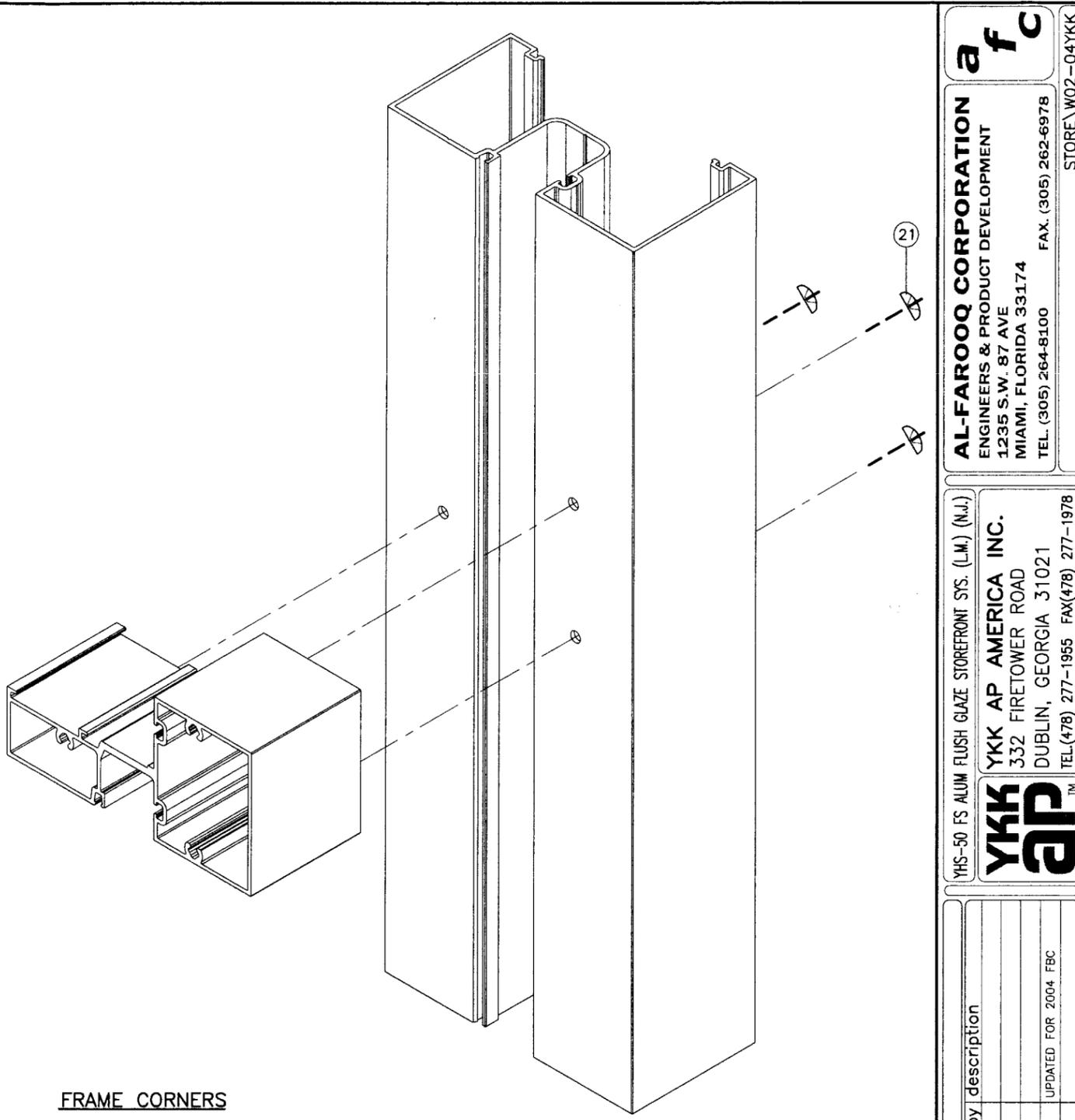
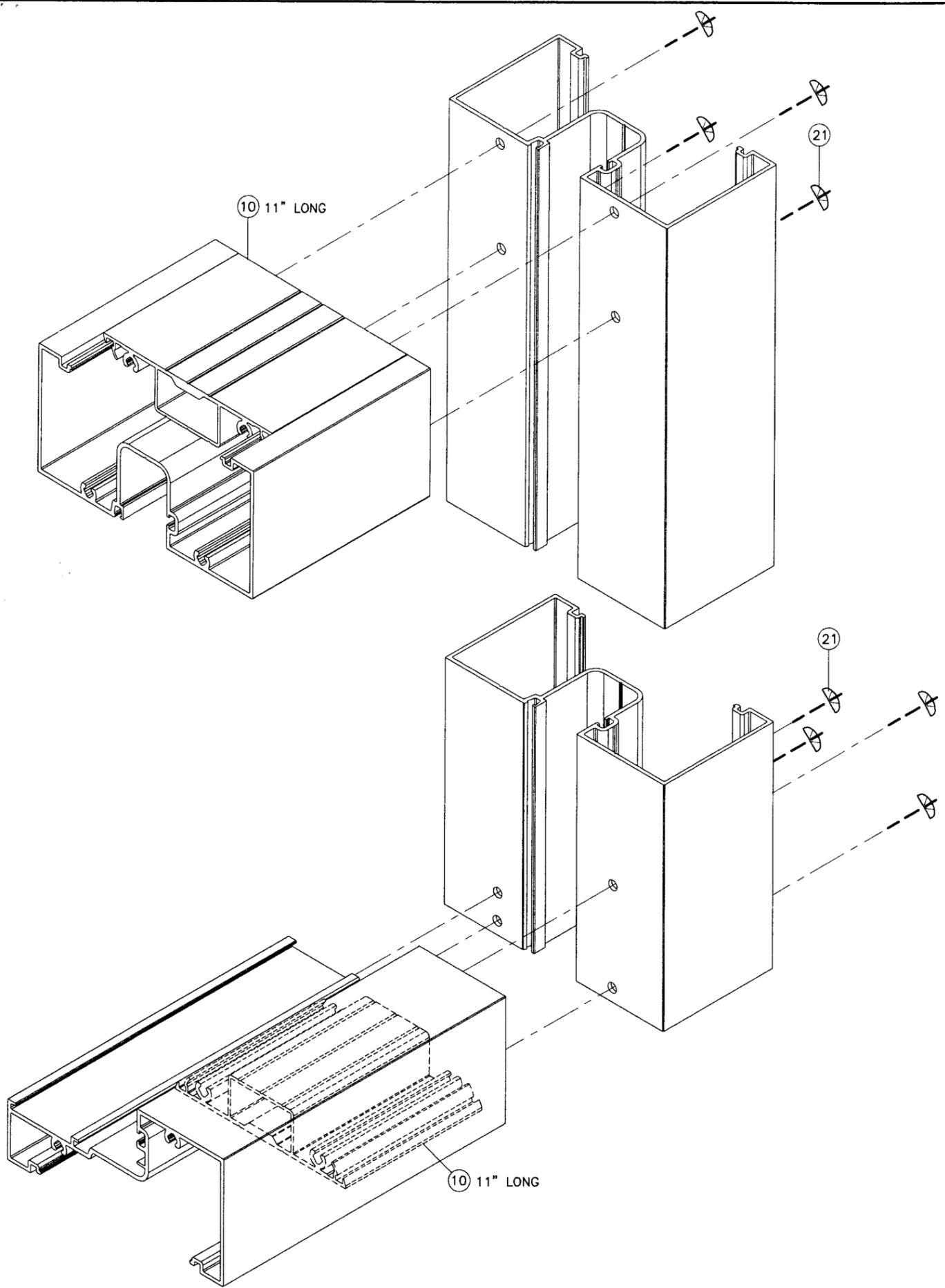
YKK AP

revisions:	no	date	by	description
	D	08.28.06		UPDATED FOR 2004 FBC

date:	01-20-02
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

drawing no.
W02-04

sheet 5 of 7



FRAME CORNERS

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. 06-16557
 C.A.N. 00381

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By: *Hamid*
 Miami Dept. Product Control
 Division

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