



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.buildingcodeonline.com

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 – S.M.I.
(w/ and w/o Steel Reinforcement)

APPROVAL DOCUMENT: Drawing No. **W01-78**, titled "YHS-50 FS Alum. Flush Glaze Storefront Sys. (S.M.)", sheets 1 through 9 of 9, dated 11/26/01 with revision D dated 08/18/06, 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: 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 # 02-0215.18** 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. 06-1026.10
Expiration Date: August 22, 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 **W01-78**, Sheets 1 through 9 of 9, titled "YHS-50 FS Alum. Flush Glaze Storefront Sys. (S.M.)", dated 11/26/01 with revision D dated 08/18/06, 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) Small Missile Impact Test, SFBC PA 201-94
 - 2) Cyclic Loading Test, per SFBC PA 203-94

along with installation diagram of an aluminum storefront system marked-up by National Certified Testing Laboratories, Inc. Test Reports Nos. **NCTL-210-2628-1** and **2**, dated 02/08/02, respectively, signed and sealed by Barry Portnoy, P.E. (This test report has been revised by addendum#1 dated June 10, 2002 and addendum letter dated June 20, 2002 both issued by National Certified Testing Laboratories, Inc, signed and sealed by Barry Portnoy, P.E.)

(Submitted under NOA #02-0215.18)

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.

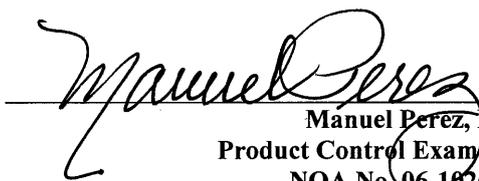
(Submitted under NOA #02-0215.16)

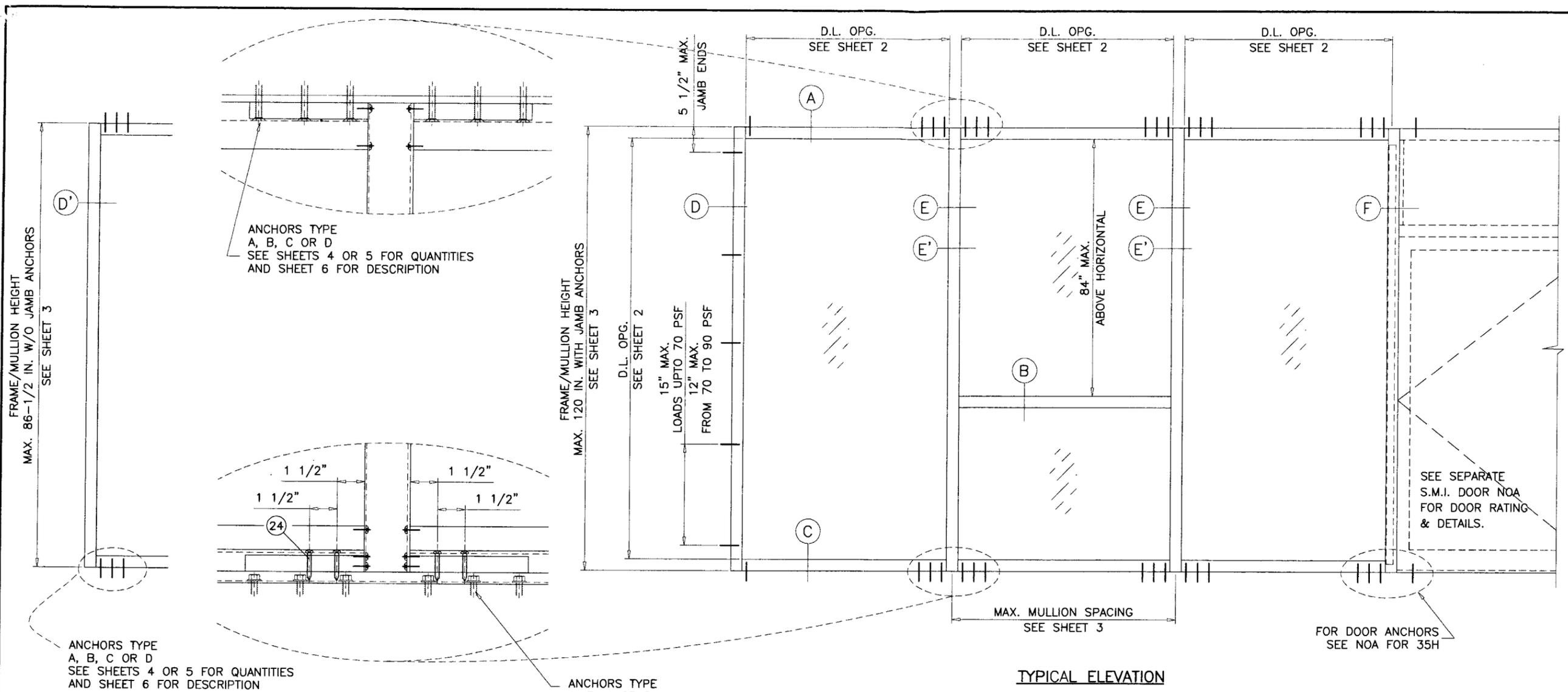
C. CALCULATIONS:

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 09/02/06, 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 12-12-01 and 06-29-02, signed and sealed by Dr. Humayoun Farooq, P.E.
(Submitted under NOA #02-0215.18)

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. ~~06-1026.10~~
Expiration Date: August 22, 2012
Approval Date: December 28, 2006



TYPICAL ELEVATION

SERIES YHS-50 FS
ALUMINUM FLUSH GLAZED STOREFRONT SYSTEM

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

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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** USING CHART ON SHEETS 4 OR 5 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 GLASS
SMALL MISSILE IMPACT

Engr: DR. HUMAYOUN FARJOQ
 STRUCTURES
 FLA. PE # 16357
 C.A.N. 3538

OCT 17 2006

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-1026.10
 Expiration Date Aug. 22, 2012

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\W01-78YKK

YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (S.M.)

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

YKK AP

no	date	description
A	06.25.02	REV. PER BCCO COMMENTS
B	07.23.02	REV. PER BCCO COMMENTS
C	08.01.02	REV. PER BCCO COMMENTS
D	08.18.06	UPDATED FOR 2004 FBC

revisions:

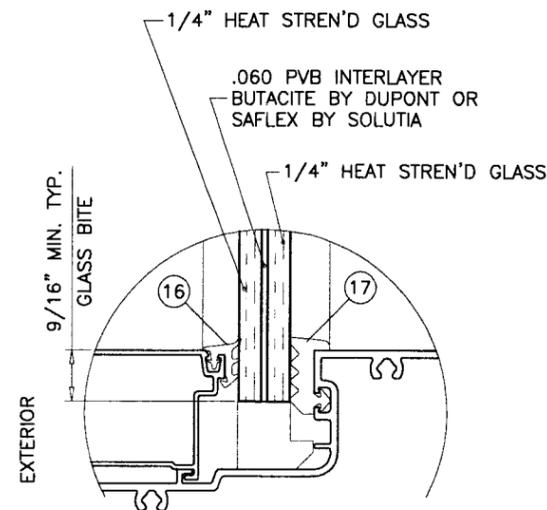
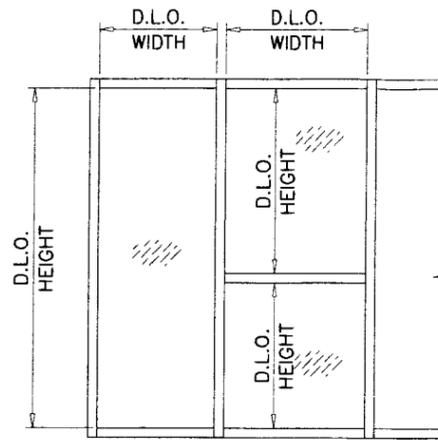
date: 11-26-01
 scale: 1/2"=1'-0"
 dr. by: HAMID
 chk. by:

drawing no.
W01-78

sheet 1 of 9

GLASS DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		9/16" LAM. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
36"	72"	90.0
39"		90.0
42"		90.0
45"		90.0
48"		90.0
51"		90.0
54"		90.0
57"		90.0
57-1/2"	80-7/8"	90.0
36"	84"	90.0
39"		90.0
42"		90.0
45"		90.0
48"		90.0
51"		90.0
54"	90.0	
36"	90"	90.0
39"		90.0
42"		90.0
45"		90.0
48"		90.0
51"	90.0	
36"	96"	90.0
39"		90.0
42"		90.0
45"		90.0
48"		90.0
36"	102"	90.0
39"		90.0
42"		90.0
45"		90.0
36"	108"	90.0
39"		90.0
42"		90.0
36"	114"	90.0
39"		90.0
36"	120"	90.0
39"		90.0

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



GLAZING DETAIL
9/16" THICK NOMINAL

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 10557
C.A.N. 3538

[Signature]
OCT 17 2006

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 06-1026.10
Expiration Date AUG 22, 2007
By: *[Signature]*
Manufacture Product Control

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W01-78YKK

YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (S.M.)
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no	date	description
D	08.18.06	UPDATED FOR 2004 FBC

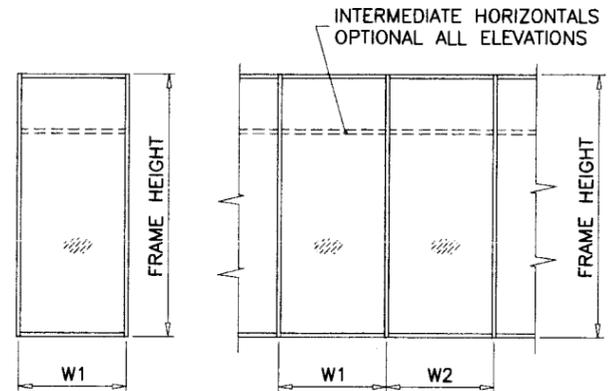
date: 11-26-01
scale: -
dr. by: HAMD
chk. by:

drawing no.
W01-78
sheet 2 of 9

MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36"	78"	70.0	90.0	70.0	90.0
39"		70.0	90.0	70.0	90.0
42"		70.0	90.0	70.0	90.0
45"		70.0	90.0	70.0	90.0
48"		70.0	90.0	70.0	90.0
51"		70.0	90.0	70.0	90.0
54"		70.0	90.0	70.0	90.0
57"		70.0	90.0	70.0	90.0
60"		70.0	90.0	70.0	90.0
63"		70.0	90.0	70.0	90.0
66"		70.0	90.0	70.0	90.0
69"		55.0	70.0	70.0	90.0
72"	55.0	70.0	70.0	90.0	
36"	84"	70.0	90.0	70.0	90.0
39"		70.0	90.0	70.0	90.0
42"		70.0	90.0	70.0	90.0
45"		70.0	90.0	70.0	90.0
48"		70.0	90.0	70.0	90.0
51"		70.0	90.0	70.0	90.0
54"		70.0	90.0	70.0	90.0
57"		70.0	90.0	70.0	90.0
60"		70.0	90.0	70.0	90.0
63"		55.0	70.0	70.0	90.0
66"		55.0	70.0	70.0	90.0
69"		-	-	70.0	90.0
72"	-	-	70.0	90.0	
36"	90"	70.0	90.0	70.0	90.0
39"		70.0	90.0	70.0	90.0
42"		70.0	90.0	70.0	90.0
45"		70.0	90.0	70.0	90.0
48"		70.0	90.0	70.0	90.0
51"		70.0	90.0	70.0	90.0
54"		69.1	88.8	70.0	90.0
57"		55.0	70.0	70.0	90.0
60"		55.0	70.0	70.0	90.0
63"		55.0	70.0	70.0	90.0
66"		-	-	70.0	90.0
69"		-	-	70.0	90.0
72"	-	-	70.0	90.0	
36"	96"	70.0	90.0	70.0	90.0
39"		70.0	90.0	70.0	90.0
42"		70.0	90.0	70.0	90.0
45"		68.3	87.8	70.0	90.0
48"		64.0	82.3	70.0	90.0
51"		60.2	77.5	70.0	90.0
54"		56.9	73.1	70.0	90.0
57"		55.0	70.0	70.0	90.0
60"		55.0	70.0	70.0	90.0
63"		-	-	70.0	90.0
66"		-	-	70.0	90.0
69"		-	-	70.0	90.0
72"	-	-	70.0	90.0	

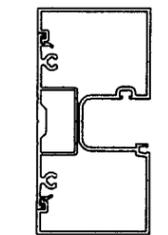
MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.		
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
36"	102"	70.0	90.0	70.0	90.0	
39"		65.7	84.4	70.0	90.0	
42"		61.0	78.4	70.0	90.0	
45"		56.9	73.2	70.0	90.0	
48"		55.0	70.0	70.0	90.0	
51"		55.0	70.0	70.0	90.0	
54"		55.0	70.0	70.0	90.0	
57"		-	-	70.0	90.0	
60"		-	-	70.0	90.0	
63"		-	-	70.0	90.0	
66"		-	-	70.0	90.0	
69"		-	-	70.0	90.0	
36"	108"	59.9	77.1	70.0	90.0	
39"		55.3	71.1	70.0	90.0	
42"		55.0	70.0	70.0	90.0	
45"		55.0	70.0	70.0	90.0	
48"		55.0	70.0	70.0	90.0	
51"		55.0	70.0	70.0	90.0	
54"		-	-	70.0	90.0	
57"		-	-	70.0	90.0	
60"		-	-	70.0	90.0	
63"		-	-	70.0	90.0	
66"		-	-	70.0	89.7	
69"		-	-	70.0	90.0	
72"	-	-	70.0	90.0		
36"	114"	55.0	70.0	70.0	90.0	
39"		55.0	70.0	70.0	90.0	
42"		55.0	70.0	70.0	90.0	
45"		55.0	70.0	70.0	90.0	
48"		55.0	70.0	70.0	90.0	
51"		-	-	70.0	90.0	
54"		-	-	70.0	90.0	
57"		-	-	70.0	90.0	
60"		-	-	70.0	88.6	
63"		-	-	70.0	84.4	
36"		120"	55.0	70.0	70.0	90.0
39"			55.0	70.0	70.0	90.0
42"	55.0		70.0	70.0	90.0	
45"	55.0		65.5	70.0	90.0	
48"	55.0		61.4	70.0	90.0	
51"	-		-	70.0	90.0	
54"	-		-	70.0	88.8	
57"	-		-	70.0	84.2	
60"	-		-	70.0	80.0	
36"	126"		55.0	70.0	70.0	90.0
39"			55.0	65.3	70.0	90.0
42"			55.0	60.6	70.0	90.0
45"		55.0	56.6	70.0	90.0	
48"		-	-	70.0	90.0	
51"		-	-	70.0	85.3	
54"		-	-	70.0	80.6	
57"		-	-	70.0	76.3	

MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36"	132"	55.0	61.5	70.0	90.0
39"		55.0	56.8	70.0	90.0
42"		52.7	52.7	70.0	90.0
45"		-	-	70.0	88.1
48"		-	-	70.0	82.6
51"		-	-	70.0	77.7
54"	-	-	70.0	73.4	
36"	138"	53.8	53.8	70.0	90.0
39"		49.7	49.7	70.0	90.0
42"		-	-	70.0	84.4
45"		-	-	70.0	78.8
48"		-	-	70.0	73.9
51"		-	-	69.5	69.5
36"	144"	47.4	47.4	70.0	86.7
39"		43.7	43.7	70.0	80.0
42"		-	-	70.0	74.3
45"		-	-	69.4	69.4
48"		-	-	65.0	65.0

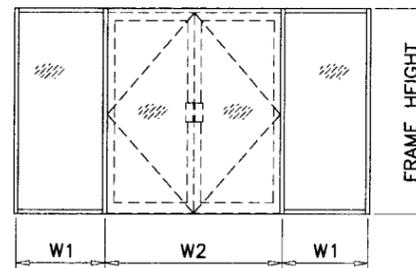


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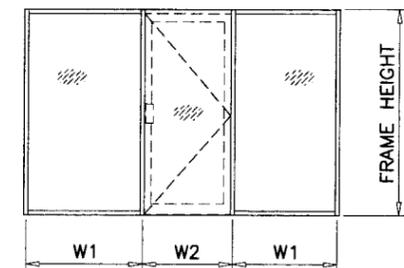
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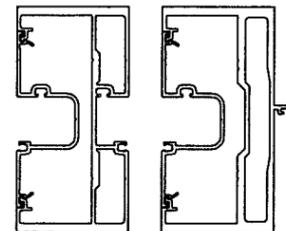
JAMB WITHOUT STEEL REINF.



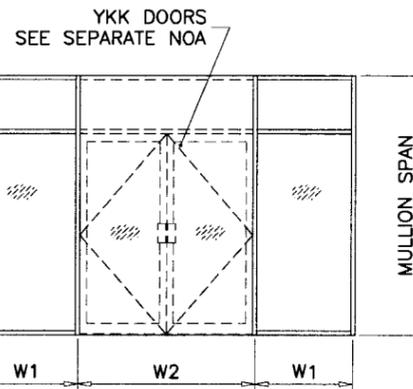
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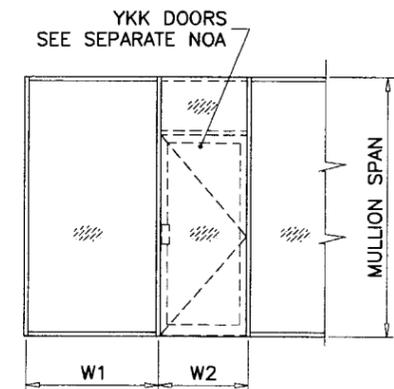
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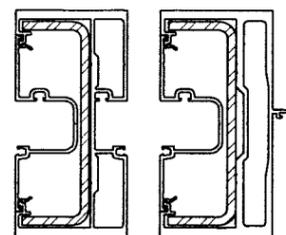
WITHOUT STEEL REINF.



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



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



WITH STEEL REINF.

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 06-1026.10
Evaluation Date 06.22.2012

OCT 17 2006
By: *Muhammad Peres*
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 W01-78YK

YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (S.M.)
YKK AP AMERICA INC.
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YKK AP

revisions:	no	date	description
	D	08.18.06	UPDATED FOR 2004 FBC

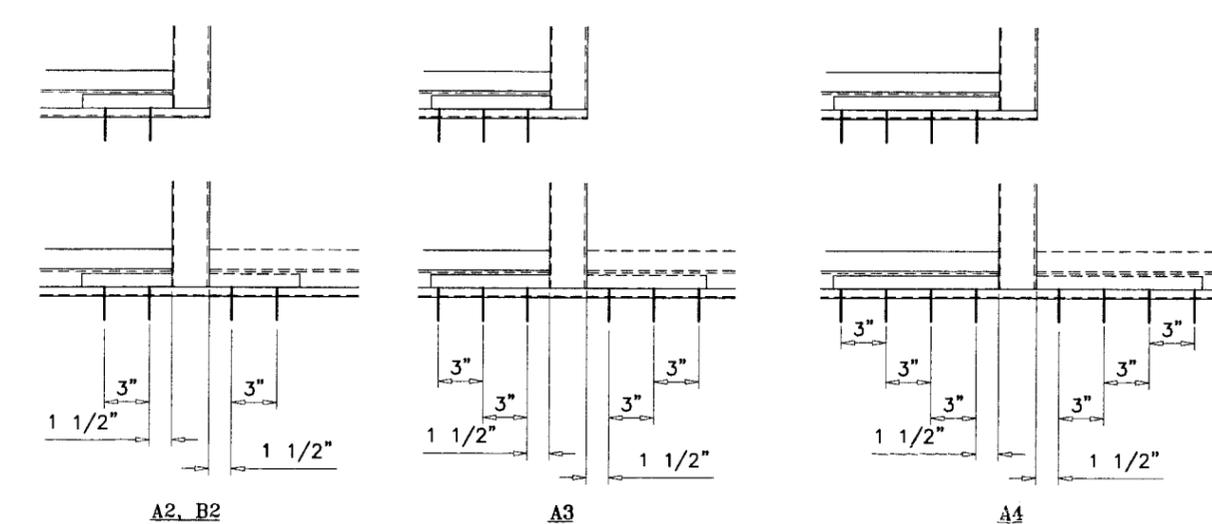
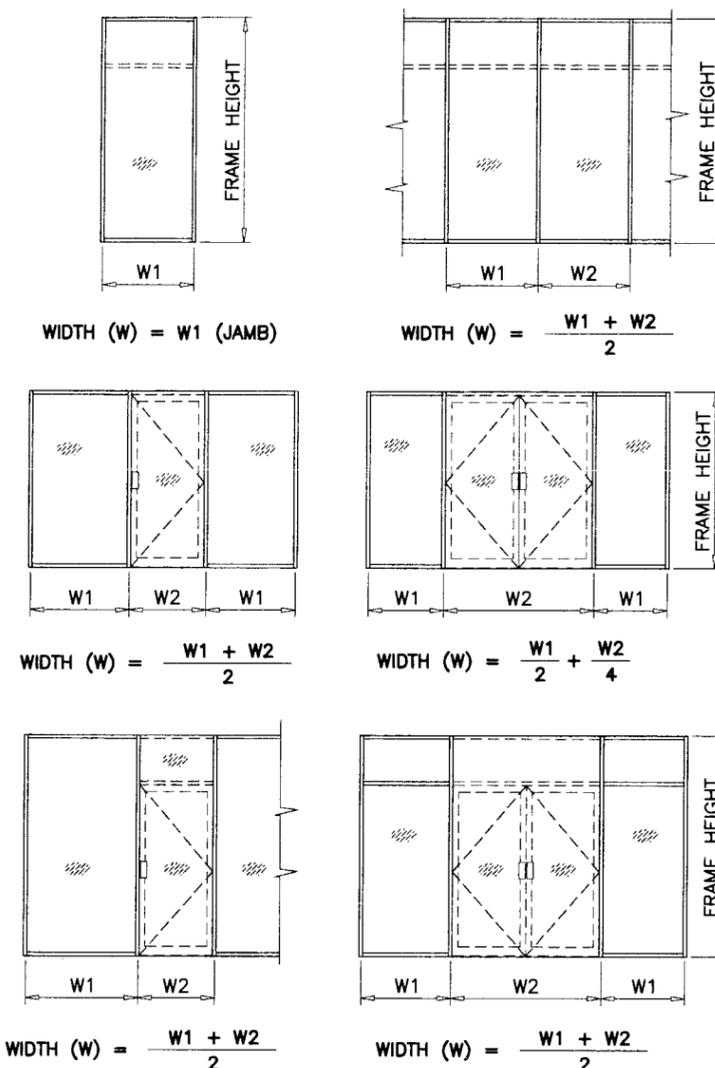
date: 11-26-01
scale: -
dr. by: HAMID
chk. by:

drawing no. W01-78
sheet 3 of 9

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2
36"	72"	90.0	90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
45"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
51"		90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0
57"		89.5	90.0	90.0	90.0
60"		85.1	90.0	90.0	90.0
63"		81.0	90.0	90.0	90.0
66"		77.3	90.0	90.0	90.0
69"		74.0	90.0	90.0	90.0
72"		70.9	90.0	90.0	90.0
75"		68.1	90.0	90.0	90.0
36"		78"	90.0	90.0	90.0
39"	90.0		90.0	90.0	90.0
42"	90.0		90.0	90.0	90.0
45"	90.0		90.0	90.0	90.0
48"	90.0		90.0	90.0	90.0
51"	90.0		90.0	90.0	90.0
54"	87.2		90.0	90.0	90.0
57"	82.7		90.0	90.0	90.0
60"	78.5		90.0	90.0	90.0
63"	74.8		90.0	90.0	90.0
66"	71.4		90.0	90.0	90.0
69"	68.3		90.0	90.0	90.0
72"	65.4		90.0	90.0	90.0
75"	62.8		90.0	90.0	90.0
36"	84"		90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0
45"		90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0
51"		90.0	90.0	90.0	90.0
54"		85.8	90.0	90.0	90.0
57"		81.0	90.0	90.0	90.0
60"		76.8	90.0	90.0	90.0
63"		72.9	90.0	90.0	90.0
66"		69.4	90.0	90.0	90.0
69"		66.3	90.0	90.0	90.0
72"		63.4	90.0	90.0	90.0
75"		60.8	90.0	90.0	87.8
36"		90"	90.0	90.0	90.0
39"	90.0		90.0	90.0	90.0
42"	90.0		90.0	90.0	90.0
45"	90.0		90.0	90.0	90.0
48"	85.1		90.0	90.0	90.0
51"	80.1		90.0	90.0	90.0
54"	75.6		90.0	90.0	90.0
57"	71.6		90.0	90.0	90.0
60"	68.1		90.0	90.0	90.0
63"	64.8		90.0	90.0	90.0
66"	61.9		90.0	90.0	89.4
69"	59.2		88.8	90.0	85.5
72"	56.7		85.1	90.0	82.0
75"	54.4		81.7	90.0	78.7

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	
36"	96"	90.0	90.0	90.0	90.0	
39"		90.0	90.0	90.0	90.0	
42"		90.0	90.0	90.0	90.0	
45"		85.1	90.0	90.0	90.0	
48"		79.8	90.0	90.0	90.0	
51"		75.1	90.0	90.0	90.0	
54"		70.9	90.0	90.0	90.0	
57"		67.2	90.0	90.0	90.0	
60"		63.8	90.0	90.0	90.0	
63"		60.8	90.0	90.0	87.8	
66"		58.0	87.0	90.0	83.8	
69"		55.5	83.2	90.0	80.2	
72"		53.2	79.8	90.0	76.8	
75"		51.0	76.6	90.0	73.8	
36"		102"	90.0	90.0	90.0	90.0
39"	90.0		90.0	90.0	90.0	
42"	85.8		90.0	90.0	90.0	
45"	80.1		90.0	90.0	90.0	
48"	75.1		90.0	90.0	90.0	
51"	70.6		90.0	90.0	90.0	
54"	66.7		90.0	90.0	90.0	
57"	63.2		90.0	90.0	90.0	
60"	60.0		90.0	90.0	86.8	
63"	57.2		85.8	90.0	82.6	
66"	54.6		81.9	90.0	78.9	
69"	52.2		78.3	90.0	75.5	
36"	108"		90.0	90.0	90.0	90.0
39"			87.2	90.0	90.0	90.0
42"			81.0	90.0	90.0	90.0
45"		75.6	90.0	90.0	90.0	
48"		70.9	90.0	90.0	90.0	
51"		66.7	90.0	90.0	90.0	
54"		63.0	90.0	90.0	90.0	
57"		59.7	89.5	90.0	86.3	
60"		56.7	85.1	90.0	82.0	
63"		54.0	81.0	90.0	78.1	
66"		51.6	77.3	90.0	74.5	
36"		114"	89.5	90.0	90.0	90.0
39"			82.7	90.0	90.0	90.0
42"			76.8	90.0	90.0	90.0
45"			71.6	90.0	90.0	90.0
48"	67.2		90.0	90.0	90.0	
51"	63.2		90.0	90.0	90.0	
54"	59.7		89.5	90.0	86.3	
57"	56.6		84.8	90.0	81.7	
60"	53.7		80.6	90.0	77.6	
36"	120"	85.1	90.0	90.0	90.0	
39"		78.5	90.0	90.0	90.0	
42"		72.9	90.0	90.0	90.0	
45"		68.1	90.0	90.0	90.0	
48"		63.8	90.0	90.0	90.0	
51"		60.0	90.0	90.0	86.8	
54"		56.7	85.1	90.0	82.0	
57"		53.7	80.6	90.0	77.6	
60"		51.0	76.6	90.0	73.8	

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	
36"	126"	81.0	90.0	90.0	90.0	
39"		74.8	90.0	90.0	90.0	
42"		69.4	90.0	90.0	90.0	
45"		64.8	90.0	90.0	90.0	
48"		60.8	90.0	90.0	87.8	
51"		57.2	85.8	90.0	82.6	
54"		54.0	81.0	90.0	78.1	
57"		51.2	76.8	90.0	73.9	
36"		132"	77.3	90.0	90.0	90.0
39"	71.4		90.0	90.0	90.0	
42"	66.3		90.0	90.0	90.0	
45"	61.9		90.0	90.0	89.4	
48"	58.0		87.0	90.0	83.8	
51"	54.6		81.9	90.0	78.9	
54"	51.6		77.3	90.0	74.5	
36"	138"		74.0	90.0	90.0	90.0
39"			68.3	90.0	90.0	90.0
42"		63.4	90.0	90.0	90.0	
45"		59.2	88.8	90.0	85.5	
48"		55.5	83.2	90.0	80.2	
36"	144"	70.9	90.0	90.0	90.0	
39"		65.4	90.0	90.0	90.0	
42"		60.8	90.0	90.0	87.8	
45"		56.7	85.1	90.0	82.0	
48"		53.2	79.8	90.0	76.8	



ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
A4 = (4) 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. HILMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3538

PRODUCT ADVISED
as complying with the Florida
Building Code
Approval No. 06-1026-10
Expiration Date 06-22, 2012

By: *Manuel Perez*
Miami Trade Product Control

DATE: 11-26-01
SCALE: -
DR. BY: HAMID
CHK. BY:

drawing no. W01-78
sheet 4 of 9

afC

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE/W01-78YKK

YKK AP AMERICA INC.
332 FIRETOWER ROAD
DUBLIN, GEORGIA 31021
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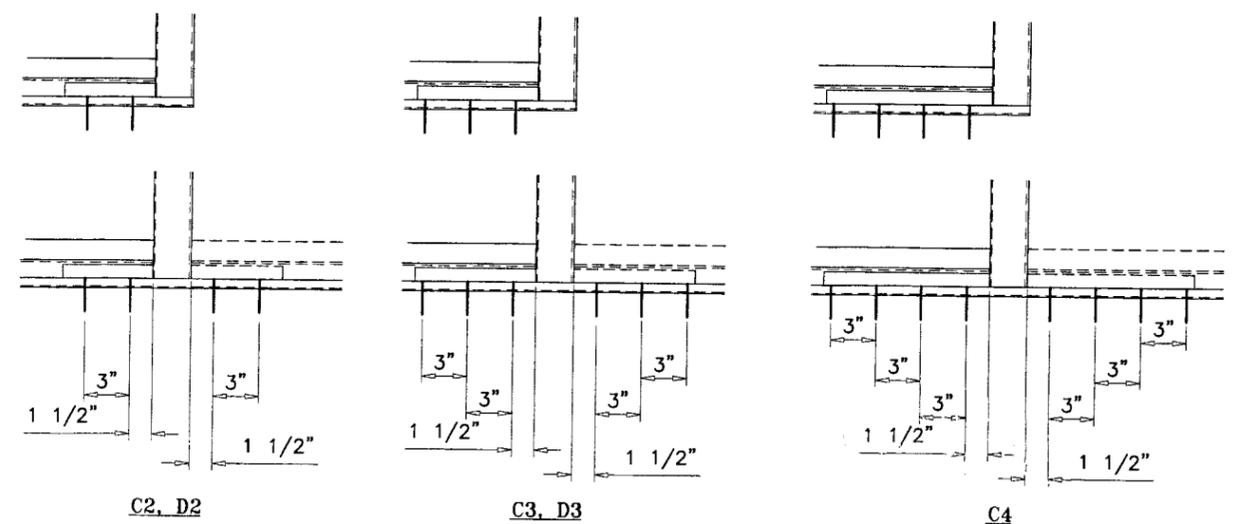
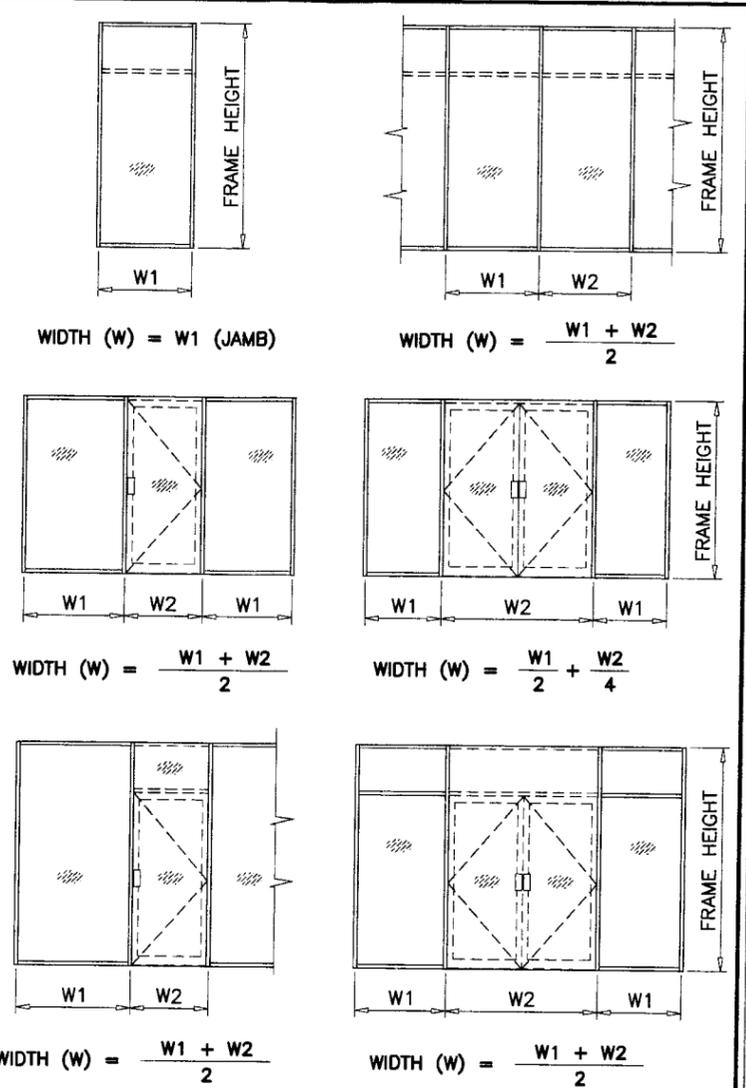
YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (S.M.)

revisions:
no. date by description
D 08.18.06 UPDATED FOR 2004 FBC

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'	
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3
36"	72"	90.0	90.0	90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
45"		90.0	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0	90.0
51"		87.5	90.0	90.0	90.0	90.0
54"		82.7	90.0	90.0	90.0	90.0
57"		78.3	90.0	90.0	90.0	90.0
60"		74.4	90.0	90.0	90.0	90.0
63"		70.9	90.0	90.0	90.0	90.0
66"		67.6	90.0	90.0	90.0	90.0
69"		64.7	90.0	90.0	90.0	90.0
72"		62.0	90.0	90.0	87.8	90.0
75"		59.5	89.3	90.0	84.3	90.0
36"	78"	90.0	90.0	90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
45"		90.0	90.0	90.0	90.0	90.0
48"		85.8	90.0	90.0	90.0	90.0
51"		80.8	90.0	90.0	90.0	90.0
54"		76.3	90.0	90.0	90.0	90.0
57"		72.3	90.0	90.0	90.0	90.0
60"		68.7	90.0	90.0	90.0	90.0
63"		65.4	90.0	90.0	90.0	90.0
66"		62.4	90.0	90.0	88.4	90.0
69"		59.7	89.6	90.0	84.5	90.0
72"		57.2	85.8	90.0	81.0	90.0
75"		54.9	82.4	90.0	77.8	90.0
36"	84"	90.0	90.0	90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0
45"		85.0	90.0	90.0	90.0	90.0
48"		79.7	90.0	90.0	90.0	90.0
51"		75.0	90.0	90.0	90.0	90.0
54"		70.9	90.0	90.0	90.0	90.0
57"		67.1	90.0	90.0	90.0	90.0
60"		63.8	90.0	90.0	90.0	90.0
63"		60.7	90.0	90.0	86.0	90.0
66"		58.0	87.0	90.0	82.1	90.0
69"		55.5	83.2	90.0	78.5	90.0
72"		53.1	79.7	90.0	75.2	90.0
75"		51.0	76.5	90.0	72.2	90.0
36"	90"	90.0	90.0	90.0	90.0	90.0
39"		90.0	90.0	90.0	90.0	90.0
42"		85.0	90.0	90.0	90.0	90.0
45"		79.4	90.0	90.0	90.0	90.0
48"		74.4	90.0	90.0	90.0	90.0
51"		70.0	90.0	90.0	90.0	90.0
54"		66.1	90.0	90.0	90.0	90.0
57"		62.7	90.0	90.0	88.7	90.0
60"		59.5	89.3	90.0	84.3	90.0
63"		56.7	85.0	90.0	80.3	90.0
66"		54.1	81.2	90.0	76.6	90.0
69"		51.8	77.6	90.0	73.3	90.0
72"		49.6	74.4	90.0	70.2	90.0
75"		47.6	71.4	90.0	67.4	90.0

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)							
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	
36"	96"	90.0	90.0	90.0	90.0	90.0	
39"		85.8	90.0	90.0	90.0	90.0	
42"		79.7	90.0	90.0	90.0	90.0	
45"		74.4	90.0	90.0	90.0	90.0	
48"		69.8	90.0	90.0	90.0	90.0	
51"		65.6	90.0	90.0	90.0	90.0	
54"		62.0	90.0	90.0	87.8	90.0	
57"		58.7	88.1	90.0	83.2	90.0	
60"		55.8	83.7	90.0	79.0	90.0	
63"		53.1	79.7	90.0	75.2	90.0	
66"		50.7	76.1	90.0	71.8	90.0	
69"		48.5	72.8	90.0	68.7	90.0	
72"		46.5	69.8	90.0	65.8	90.0	
75"		44.6	67.0	89.3	63.2	90.0	
36"	102"	87.5	90.0	90.0	90.0	90.0	
39"		80.8	90.0	90.0	90.0	90.0	
42"		75.0	90.0	90.0	90.0	90.0	
45"		70.0	90.0	90.0	90.0	90.0	
48"		65.6	90.0	90.0	90.0	90.0	
51"		61.8	90.0	90.0	87.5	90.0	
54"		58.4	87.5	90.0	82.6	90.0	
57"		55.3	82.9	90.0	78.3	90.0	
60"		52.5	78.8	90.0	74.4	90.0	
63"		50.0	75.0	90.0	70.8	90.0	
66"		47.7	71.6	90.0	67.6	90.0	
69"		45.7	68.5	90.0	64.7	90.0	
36"		108"	82.7	90.0	90.0	90.0	90.0
39"			76.3	90.0	90.0	90.0	90.0
42"	70.9		90.0	90.0	90.0	90.0	
45"	66.1		90.0	90.0	90.0	90.0	
48"	62.0		90.0	90.0	87.8	90.0	
51"	58.4		87.5	90.0	82.6	90.0	
54"	55.1		82.7	90.0	78.0	90.0	
57"	52.2		78.3	90.0	73.9	90.0	
60"	49.6		74.4	90.0	70.2	90.0	
63"	47.2		70.9	90.0	66.9	90.0	
66"	45.1		67.6	90.0	63.8	90.0	
36"	114"		78.3	90.0	90.0	90.0	90.0
39"			72.3	90.0	90.0	90.0	90.0
42"			67.1	90.0	90.0	90.0	90.0
45"		62.7	90.0	90.0	88.7	90.0	
48"		58.7	88.1	90.0	83.2	90.0	
51"		55.3	82.9	90.0	78.3	90.0	
54"		52.2	78.3	90.0	73.9	90.0	
57"		49.5	74.2	90.0	70.0	90.0	
60"		47.0	70.5	90.0	66.5	90.0	
63"		44.8	67.1	89.5	63.4	90.0	
36"		120"	74.4	90.0	90.0	90.0	90.0
39"			68.7	90.0	90.0	90.0	90.0
42"			63.8	90.0	90.0	90.0	90.0
45"			59.5	89.3	90.0	84.3	90.0
48"	55.8		83.7	90.0	79.0	90.0	
51"	52.5		78.8	90.0	74.4	90.0	
54"	49.6		74.4	90.0	70.2	90.0	
57"	47.0		70.5	90.0	66.5	90.0	
60"	44.6		67.0	89.3	63.2	90.0	

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'	
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3
36"	126"	70.9	90.0	90.0	90.0	90.0
39"		65.4	90.0	90.0	90.0	90.0
42"		60.7	90.0	90.0	86.0	90.0
45"		56.7	85.0	90.0	80.3	90.0
48"		53.1	79.7	90.0	75.2	90.0
51"		50.0	75.0	90.0	70.8	90.0
54"		47.2	70.9	90.0	66.9	90.0
36"	132"	67.6	90.0	90.0	90.0	90.0
39"		62.4	90.0	90.0	88.4	90.0
42"		58.0	87.0	90.0	82.1	90.0
45"		54.1	81.2	90.0	76.6	90.0
48"		50.7	76.1	90.0	71.8	90.0
51"		47.7	71.6	90.0	67.6	90.0
54"		45.1	67.6	90.0	63.8	90.0
36"	138"	64.7	90.0	90.0	90.0	90.0
39"		59.7	89.6	90.0	84.5	90.0
42"		55.5	83.2	90.0	78.5	90.0
45"		51.8	77.6	90.0	73.3	90.0
48"		48.5	72.8	90.0	68.7	90.0
36"	144"	62.0	90.0	90.0	87.8	90.0
39"		57.2	85.8	90.0	81.0	90.0
42"		53.1	79.7	90.0	75.2	90.0
45"		49.6	74.4	90.0	70.2	90.0
48"		46.5	69.8	90.0	65.8	90.0



ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
 C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
 C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

D2 = (2) ANCHORS TYPE 'D' AT EACH SIDE OF MULLION
 D3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

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

OCT 17 2006

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-1026-10
 Expiration Date AUG. 22, 2012

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/W01-78YKK

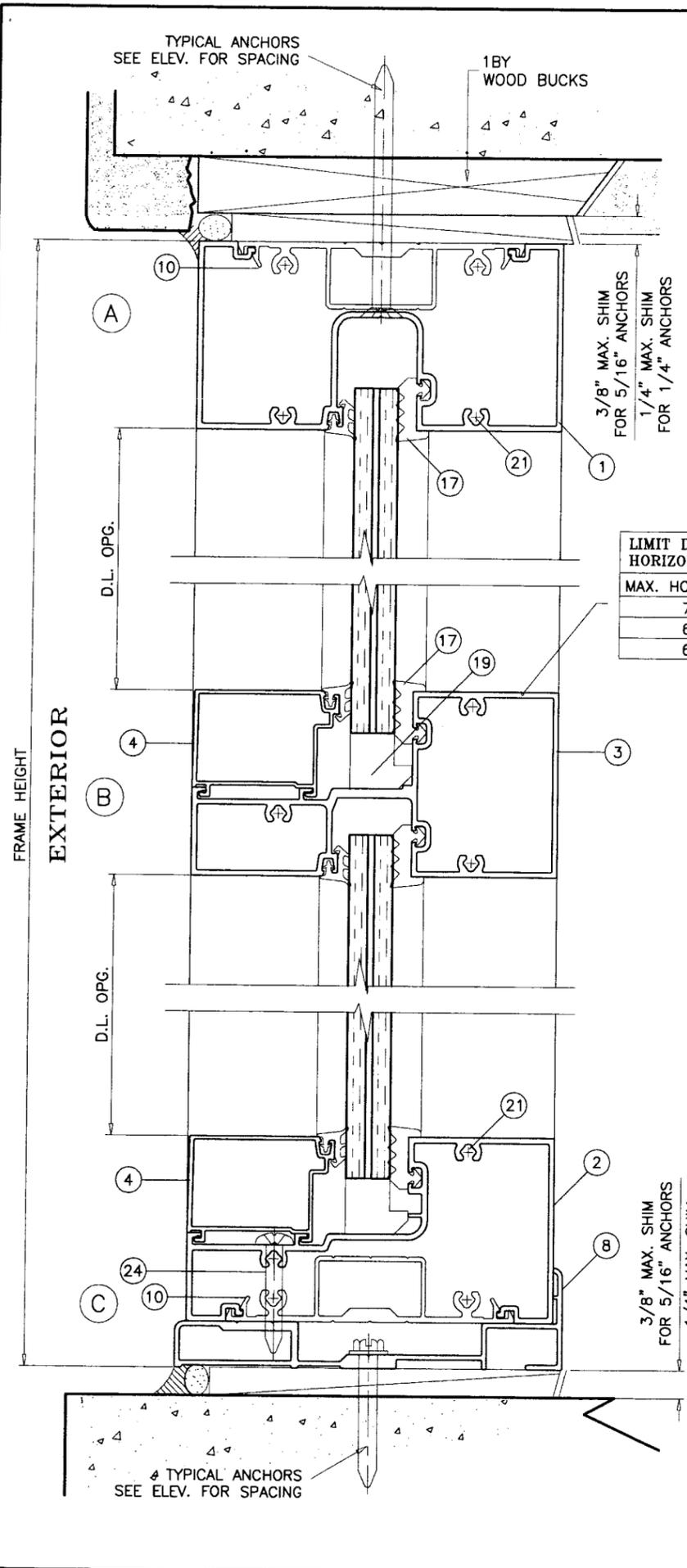
YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (S.M.)
YKK AP AMERICA INC.
 332 FIRETOWER ROAD
 DUBLIN, GEORGIA 31021
 TEL.(478) 277-1955 FAX(478) 277-1978

YKK AP

revisions:	no	date	description
	D	08.18.06	UPDATED FOR 2004 FBC

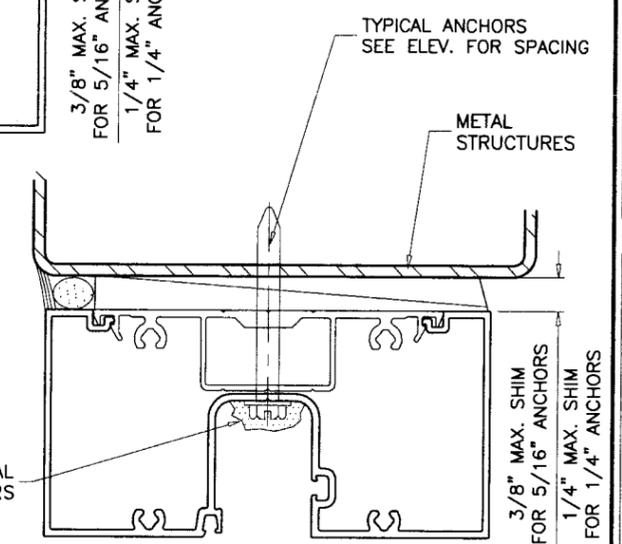
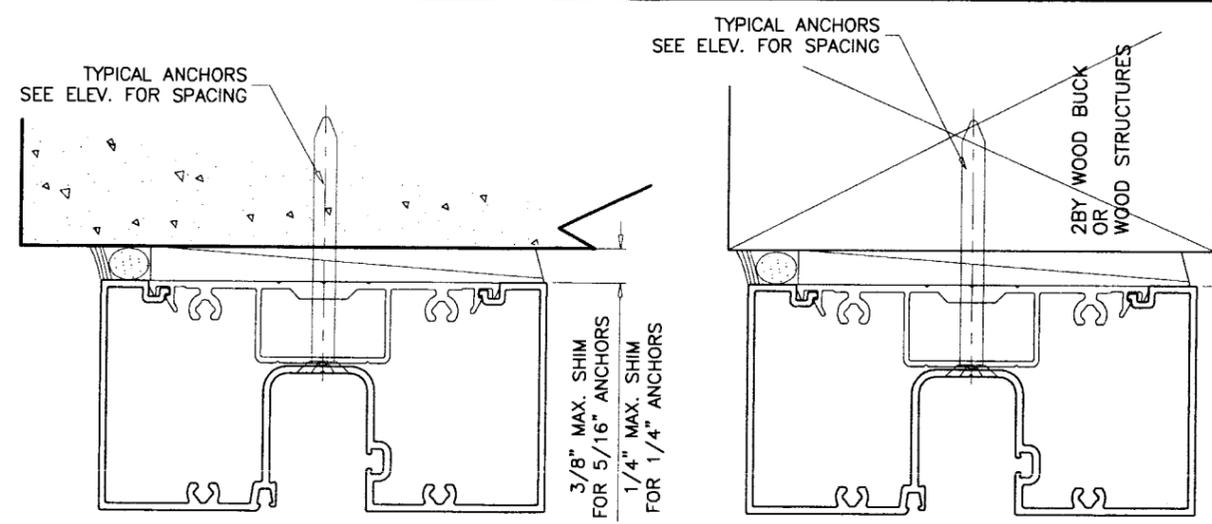
date: 11-26-01
 scale: -
 dr. by: HAMID
 chk. by:

drawing no.
W01-78
 sheet 5 of 9



LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS

MAX. HORIZ. SPAN	MAX. DESIGN LOADS
72"	64 PSF
66"	77 PSF
60"	90 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.
 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/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)

- C) **1/4" 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
- D) **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 = 3" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

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

SEALANTS:
 ALL FRAME CORNERS SEALED WITH DOW-795 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. HUMAYOON FAROOQ
 STRUCTURES
 FLA. PE # 16557
 C.A.N. 3538

PRODUCT REVISED
 so complying with the Florida
 Building Code
 Acceptance No. 06-1026-10
 Expiration Date 06-22-2012

OCT 17 2006
 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 W01-78YKK

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

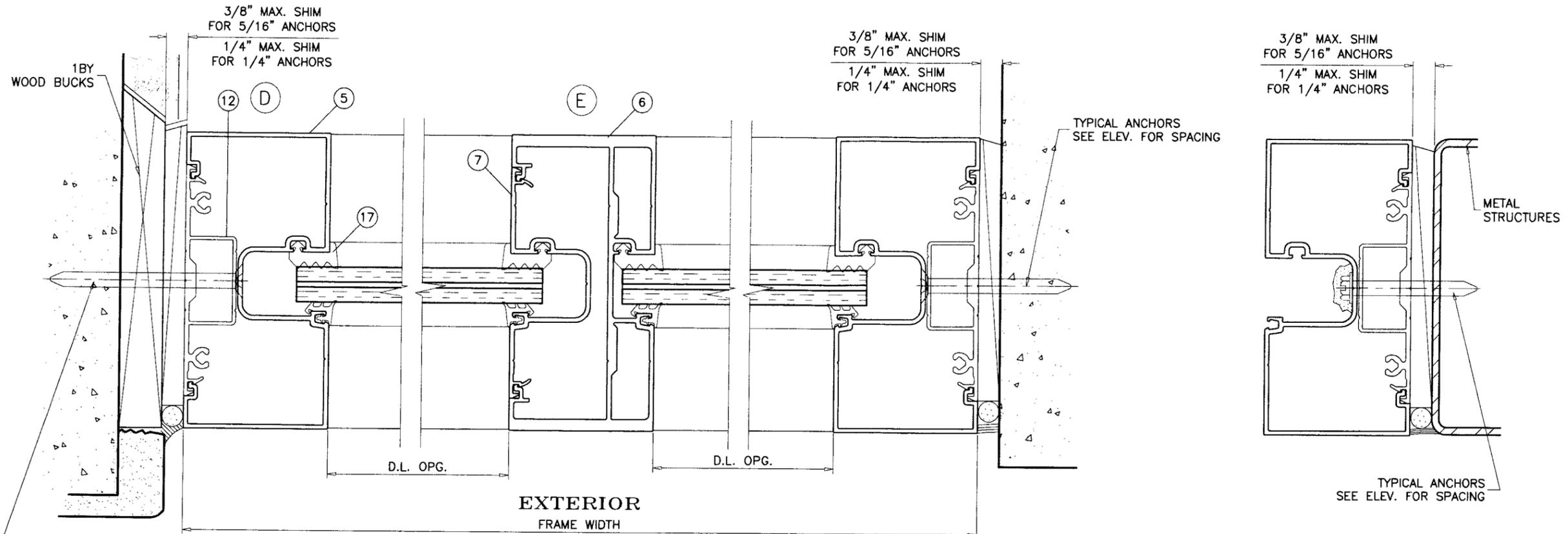
YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (S.M.)
YKK AP

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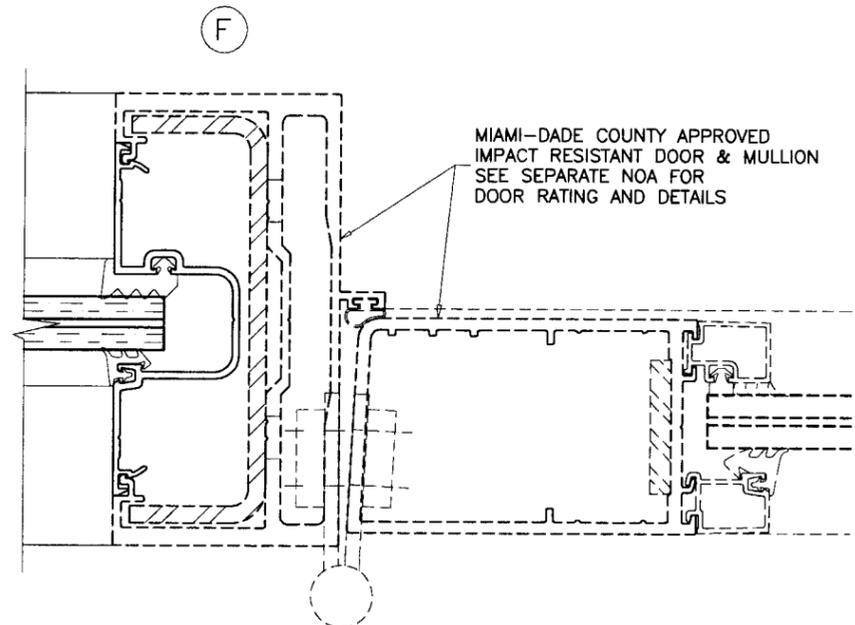
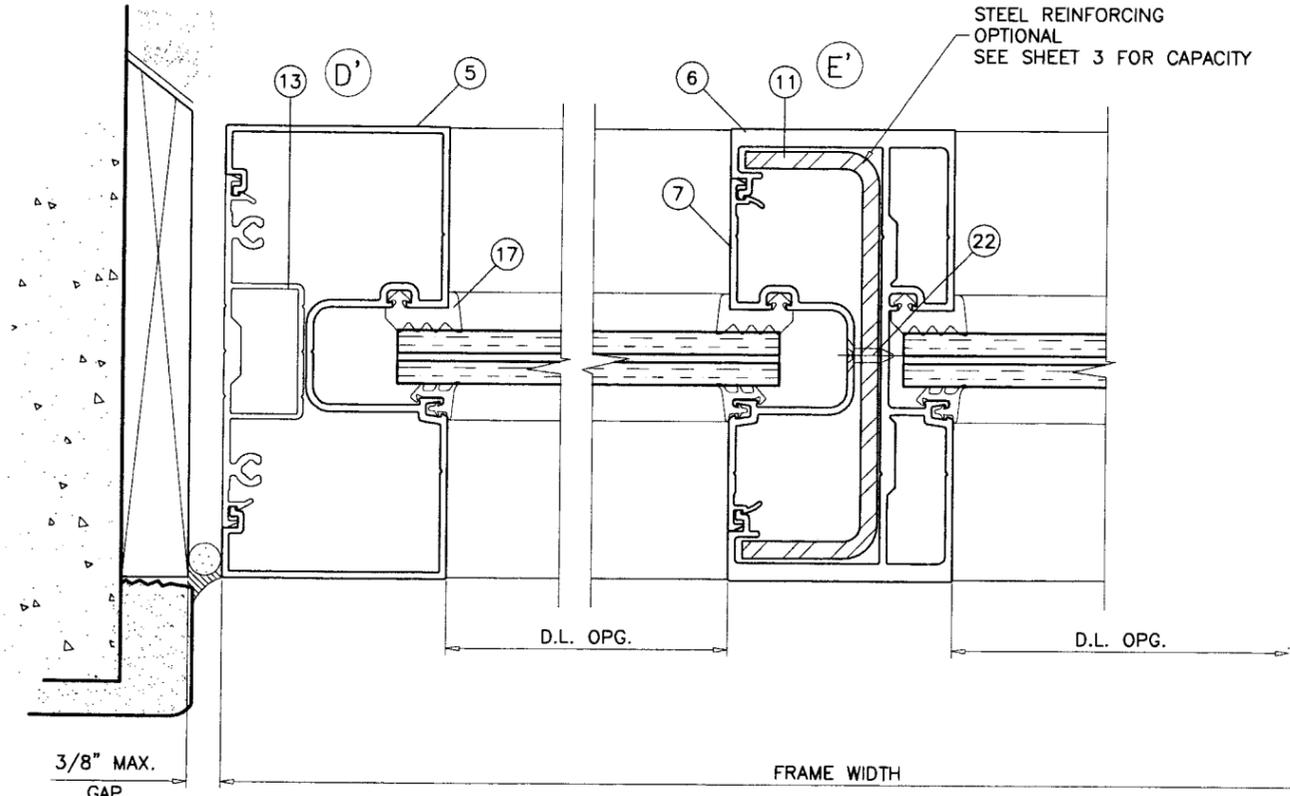
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 dr. by: HAMID
 chk. by:

drawing no. **W01-78**
 sheet 6 of 9



JAMB ANCHORS
OPTIONAL
SEE ELEV. FOR SPACING



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16957
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 06-1026-10
Equipment Date 06-22-2012

Mauro Silva
Miami-Dade Product Control

OCT 17 2006

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W01-78YKK

YHS-50 FS ALUM FLUSH STOREFRONT SYS. (S.M.)

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

YKK AP

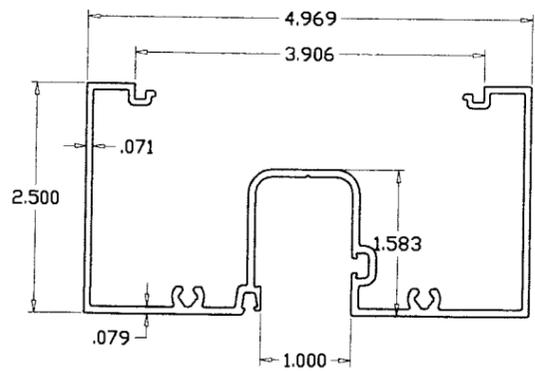
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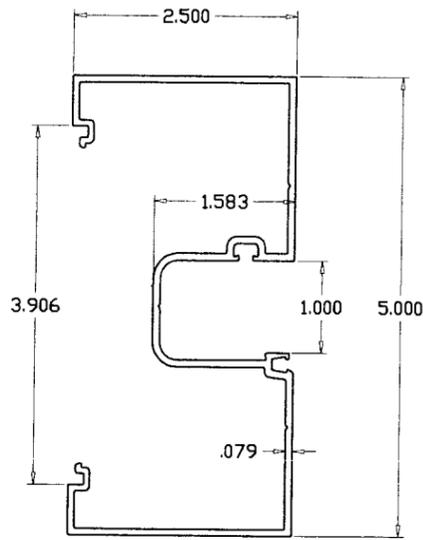
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chk. by:

drawing no.
W01-78

sheet 7 of 9

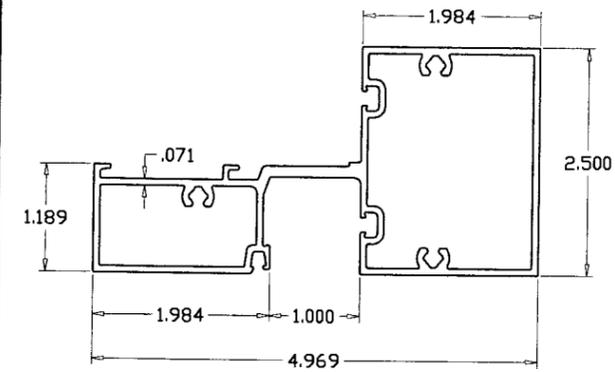


FRAME HEAD

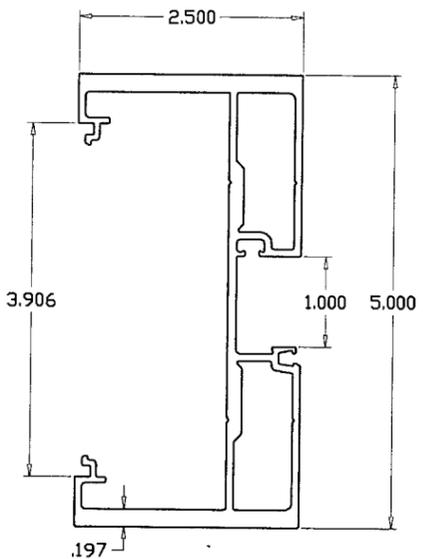


FRAME JAMB

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E9-0601	AS REQD.	FRAME HEAD	6063-T5	-
2	E9-0615	AS REQD.	FRAME SILL	6063-T5	-
3	E9-0603	AS REQD.	FRAME HORIZONTAL	6063-T5	-
4	E9-0608	AS REQD.	GLAZING STOP	6063-T5	-
5	E9-0604	AS REQD.	FRAME JAMB	6063-T5	-
6	E9-0605	AS REQD.	MULLION	6063-T5	-
7	E9-0606	AS REQD.	POCKET FILLER	6063-T5	-
8	E9-0616	AS REQD.	SILL FLASHING	6063-T5	-
10	E1-1071	AS REQD.	ANCHOR PLATE	6063-T5	-
11	E1-1062	AS REQD.	REINFORCING CHANNEL	STEEL	LENGTH = FRAME HT. - 6 5/8"
12	E1-1068	AS REQD.	ANCHOR PLATE, 2-1/2" LONG	6063-T5	AT JAMB ANCHORS
13	E9-0614	AS REQD.	FILLER CONTINUOUS	6063-T5	AT JAMBS W/O ANCHORS
16	E2-0083	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	FOR 9/16" GLASS
17	E2-1088	AS REQD.	INTERIOR GLAZING GASKET	EPDM SPONGE	-
18	E2-0094	AS REQD.	SIDE BLOCK	EPDM	-
19	E2-0080	AS REQD.	SETTING BLOCK	EPDM	-
21	PC-1216	AS REQD.	#12 X 1" SMS	STEEL	FOR SCREW SPLINE
22	FF-1008	AS REQD.	#10 X 1/2" SMS	STEEL	FOR GLAZING POCKET FILLER
23	PC-1408	AS REQD.	#14 X 1/2" SMS	STEEL	FOR THRESHOLD
24	PC-1424	AS REQD.	#14 X 1-1/2" SMS	STEEL	FOR SILL

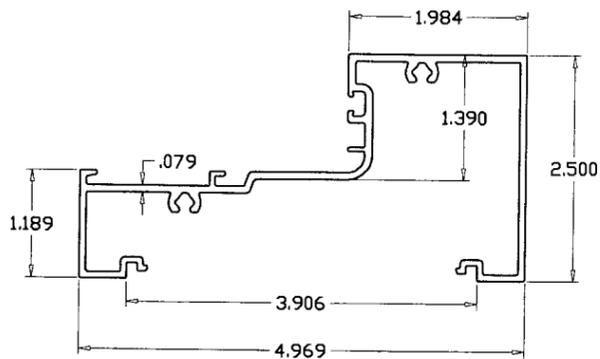


FRAME HORIZONTAL

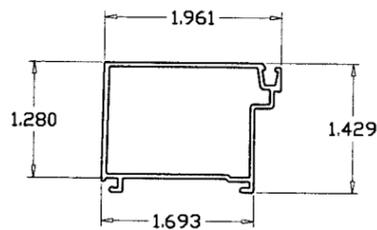


MULLION

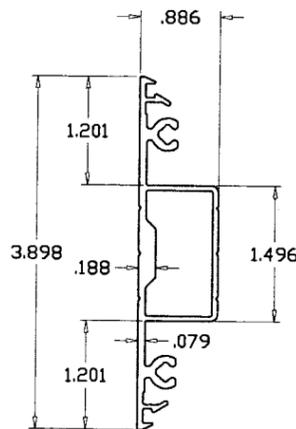
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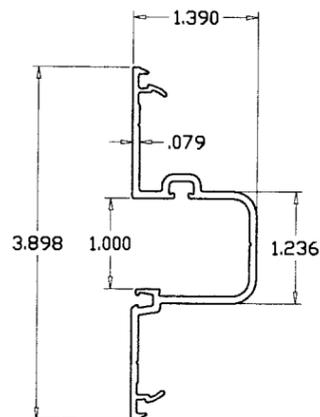
FRAME SILL



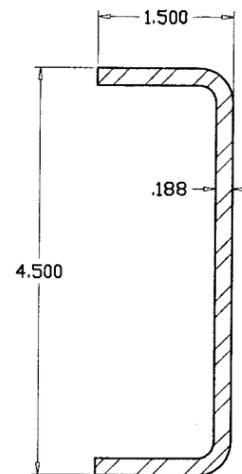
GLAZING STOP



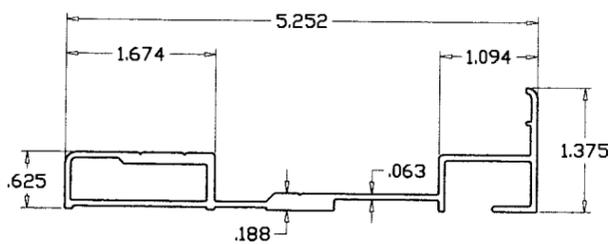
ANCHOR PLATE/FILLER



POCKET FILLER



STEEL REINFORCING
36 KSI MIN.



SILL FLASHING

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

OCT 17 2006

PRODUCT REVISED
as per code with the Florida
Building Code
Acceptance No. 06-1026-10
Expiration Date NOV. 22, 2012
Product Control

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

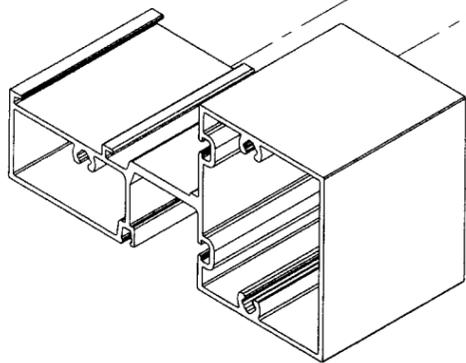
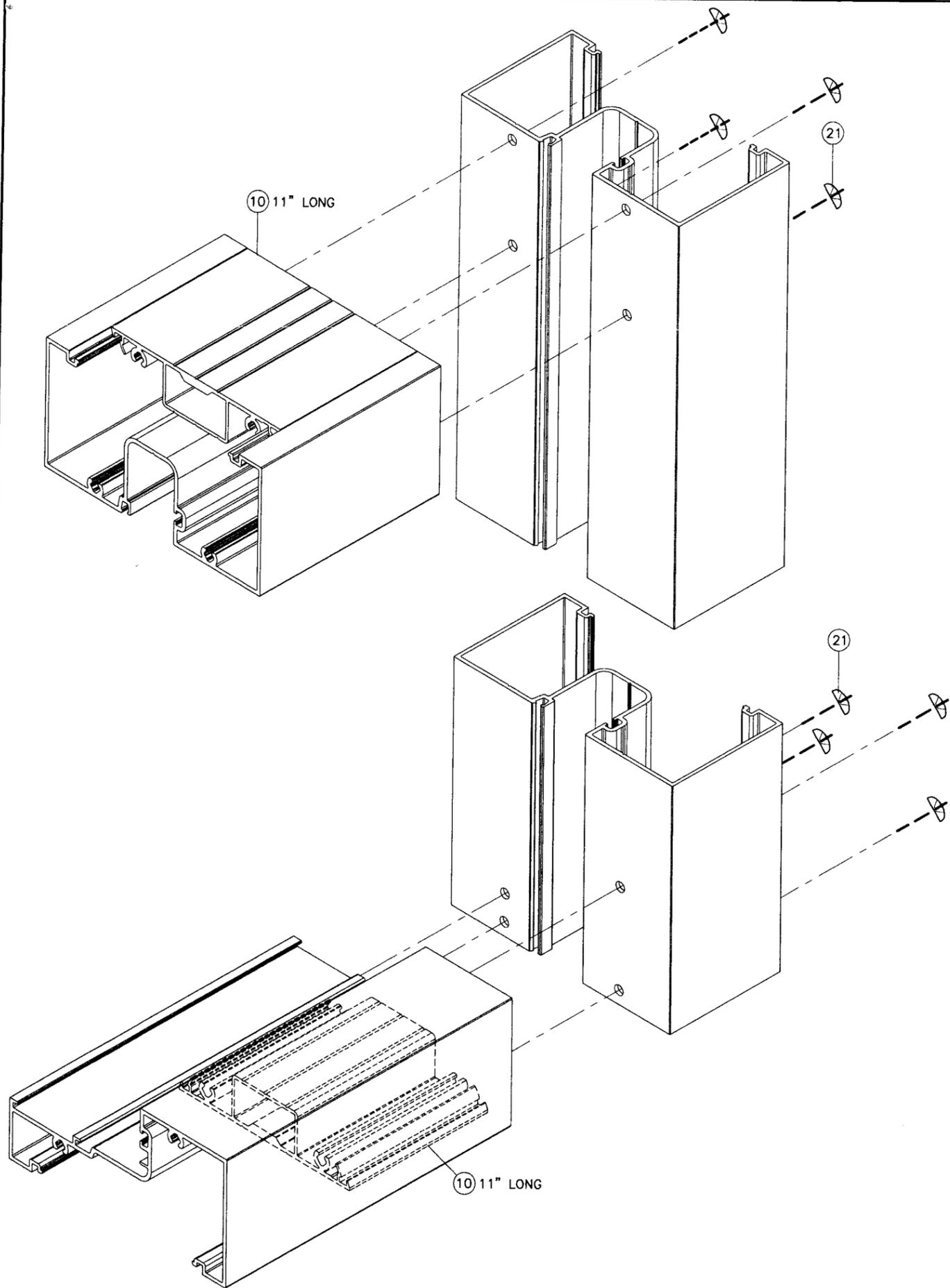
AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE W01-78YKK

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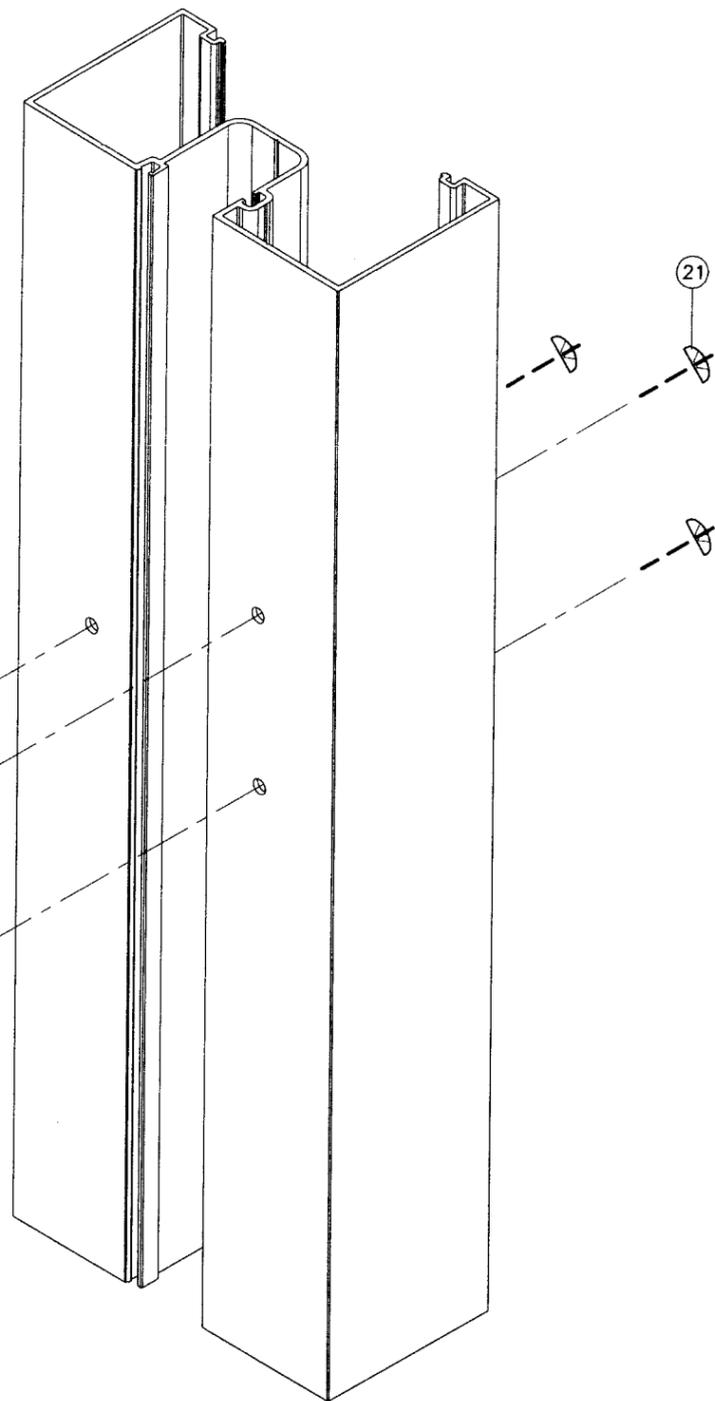
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chk. by:

drawing no.
W01-78

sheet 8 of 9



FRAME CORNERS



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

OCT 17 2006

PRODUCT REVISED
as complying with the Florida
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Acceptance No. 06-1026.10
Expiration Date AUG. 22, 2012

By: *Manuel Perry*
Structural Product Control

afc	
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978	
STORE \W01 - 78YK	
YHS-50 FS ALUM FLUSH GLAZE STOREFRONT SYS. (S.M.)	
YKK AP AMERICA INC. 332 FIRETOWER ROAD DUBLIN, GEORGIA 31021 TEL.(478) 277-1955 FAX(478) 277-1978	
YKK AP	
revisions:	
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date:	11-28-01
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dr. by:	HAMID
chk. by:	
drawing no.	
W01-78	
sheet 9 of 9	