



**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)

**YKK AP America
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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "YOW-200" Aluminum Fixed Window

APPROVAL DOCUMENT: Drawing No. **W02-72**, titled "YOW-200 Alum Fixed Window (L.M.I.)", sheets 1 through 4 of 4, prepared by Al Farooq Corporation, dated 8/23/02, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Renewal 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

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 consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



**NOA No 02-1009.12
Expiration Date: December 12, 2007
Approval Date: December 12, 2002
Page 1**

YKK AP America

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W02-72**, titled "YOW-200 Alum Fixed Window (L.M.I.)", sheets 1 through 4 of 4, prepared by Al Farooq Corporation, dated 8/23/02, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

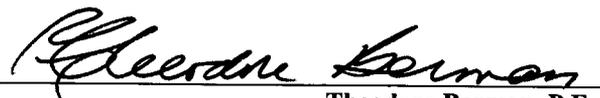
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of an aluminum awning window prepared by Hurricane Test Laboratory, test report No. **HTL-0231-0410.02**, dated 5/14/02, signed and sealed by Vinu Abraham, P.E
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of an aluminum awning window prepared by Hurricane Test Laboratory, test report No. **HTL-0231-0118-02**, dated 5/14/02, signed and sealed by Vinu Abraham, P.E

C. CALCULATIONS

1. Anchor Calculations, dated 8/18/02, prepared by Al Farooq Corporation, signed and sealed by Al Farooq, P.E.

D. MATERIAL CERTIFICATIONS

1. Notice of Proposed Action No. **00-0822.03**, issued to Solutia, Inc. for their Saflex HP, dated 10/19/00, expiring on 4/14/03.



Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 02-1009.12

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YKK AP America

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E. STATEMENTS

1. Statement letter of conformance, dated 8/19/02, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated 8/19/02, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. **HTL-0231-0410.02, HTL-0231-0118-02**, issued by Hurricane Test Laboratory, Inc., dated 5/14/02, signed and sealed by Vinu Abraham, P.E.

F. OTHER

1. Letter from Pistorino & Alam Consulting Engineers, Inc.

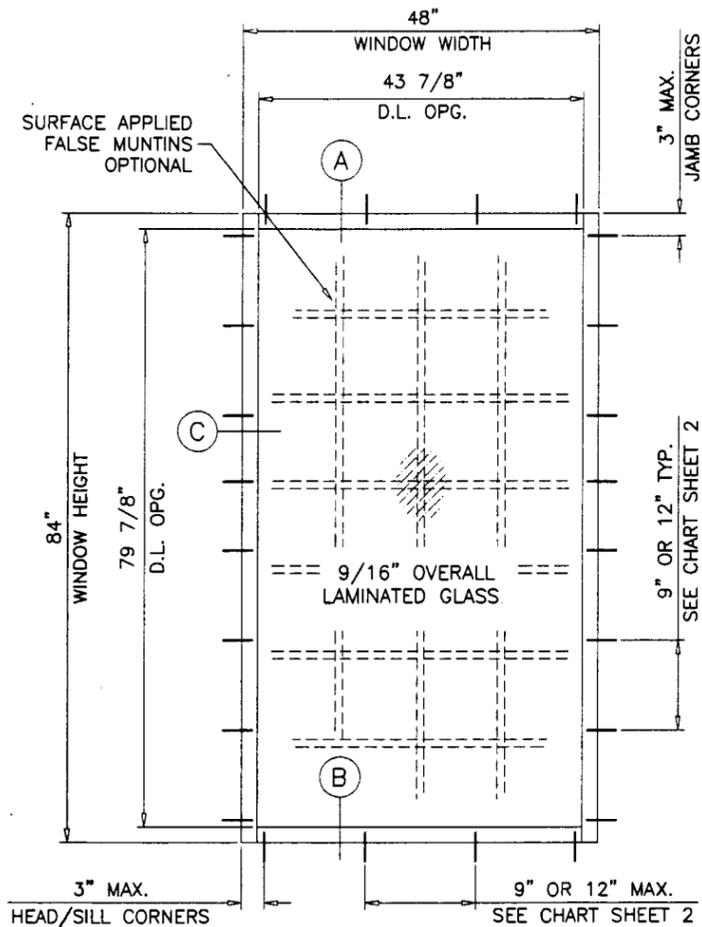


Theodore Berman, P.E.
Deputy Director, Product Control Division

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TYPICAL ELEVATION
TESTED UNIT

YOW-200 ALUMINUM FIXED WINDOW (L.M.I.)

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHART SHOWN ON SHEET 2.

FIXED WINDOWS GLAZED WITH LAMINATED GLASS RATED FOR LARGE MISSILE IMPACT AND REQUIRE NO SHUTTERS.

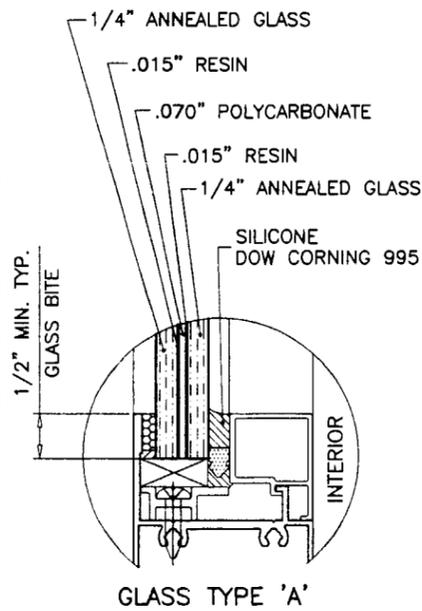
APPROVAL APPLIES TO SINGLE WINDOWS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED, OR WITH OTHER WINDOW TYPES IN MODULES OF TWO OR WINDOWS USING APPROVED MULLIONS.

THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE. ALSO FOR WIND LOADS AS PER ASCE 7 USING CORRESPONDING LOADS.

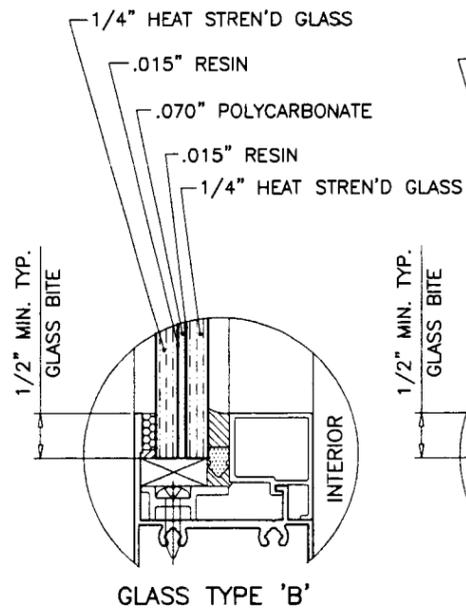
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

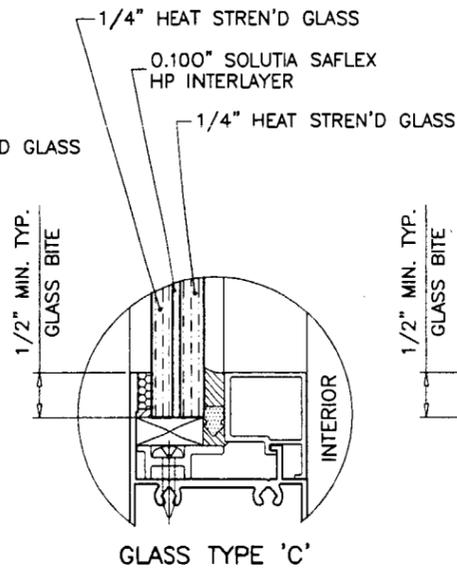
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.



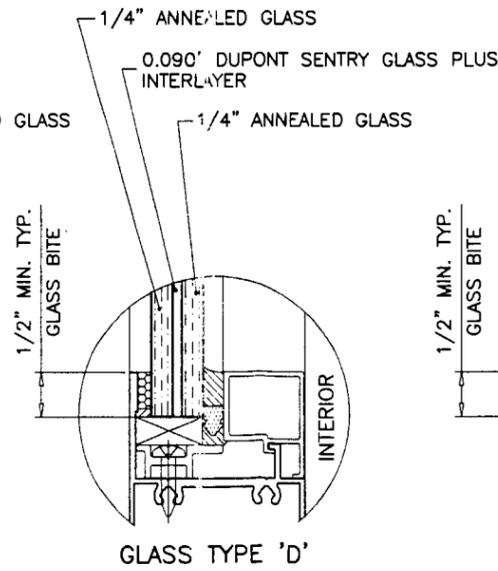
GLASS TYPE 'A'



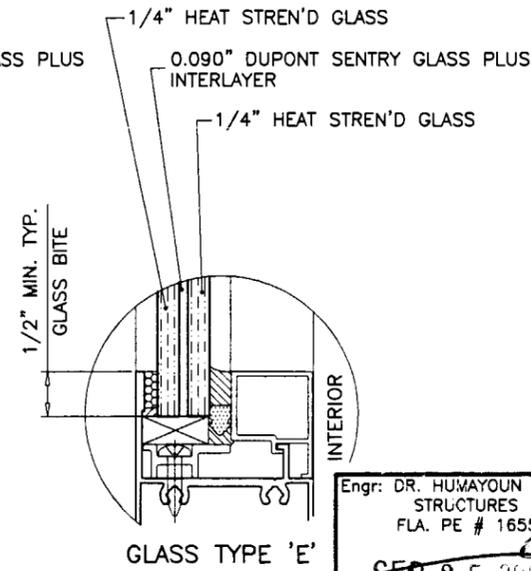
GLASS TYPE 'B'



GLASS TYPE 'C'



GLASS TYPE 'D'



GLASS TYPE 'E'

9/16" OVERALL LAMINATED GLASS
GLAZING OPTIONS

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557

SEP 25 2002

Approved as complying with the
Florida Building Code
Date 12/12/02
NOA# 02-1009.12
Miami Dade Product Control
Division
By: *[Signature]*

afc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE.
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W02-72YK

YOW-200 ALUMINUM FIXED WINDOW (L.M.I.)

YKK AP AMERICA INC.
5630 GWALTNEY DRIVE
ATLANTA, GA. 30336
TEL. (404) 629-3800 FAX (404) 629-3810

revisions:	no	date	by	description

date: 08-23-02
scale: 1/2" = 1"
dr. by: HAMID
chk. by: *[Signature]*

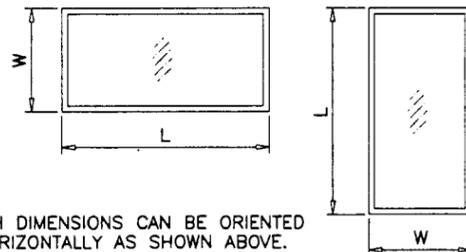
drawing no.
W02-72

sheet 1 of 4

LARGE MISSILE IMPACT RESISTANT WINDOWS SHUTTERS NOT REQD.							
WINDOW DIMS.		GLASS TYPES 'A' OR 'D' & FASTENERS AT					
		12" O.C.		9" O.C.			
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)		
36"	60"	80.0	80.0	80.0	80.0		
39"		80.0	80.0	80.0	80.0		
42"		80.0	80.0	80.0	80.0		
45"		80.0	78.1	80.0	80.0		
48"		80.0	73.2	80.0	80.0		
51"		75.3	68.9	75.3	75.3		
54"		71.1	65.1	71.1	71.1		
57"		67.4	61.6	67.4	67.4		
60"		64.0	58.6	64.0	64.0		
36"		66"	80.0	80.0	80.0	80.0	
39"	80.0		80.0	80.0	80.0		
42"	80.0		76.1	80.0	80.0		
45"	80.0		71.0	80.0	80.0		
48"	80.0		66.5	80.0	80.0		
51"	75.3		62.6	75.3	75.3		
54"	71.1		59.2	71.1	71.1		
57"	67.4		56.0	67.4	67.4		
60"	64.0		53.2	64.0	64.0		
36"	72"		80.0	80.0	80.0	80.0	
39"		80.0	80.0	80.0	80.0		
42"		80.0	80.0	80.0	80.0		
45"		80.0	75.9	80.0	80.0		
48"		80.0	71.2	80.0	80.0		
51"		75.3	67.0	75.3	75.3		
54"		71.1	63.3	71.1	71.1		
36"		78"	80.0	80.0	80.0	80.0	
39"			80.0	80.0	80.0	80.0	
42"			80.0	75.1	80.0	80.0	
45"	80.0		70.1	80.0	80.0		
48"	78.1		65.7	78.1	78.1		
51"	71.8		61.8	71.8	71.8		
36"	84"		80.0	80.0	80.0	80.0	
39"			80.0	80.0	80.0	80.0	
42"			80.0	79.7	80.0	80.0	
45"			79.2	74.4	79.2	79.2	
48"		72.7	69.7	72.7	72.7		
36"		90"	80.0	80.0	80.0	80.0	
39"			80.0	80.0	80.0	80.0	
42"			80.0	74.4	80.0	80.0	
36"			96"	80.0	80.0	80.0	80.0
39"				80.0	80.0	80.0	80.0
42"	80.0			78.4	80.0	80.0	

LARGE MISSILE IMPACT RESISTANT WINDOWS SHUTTERS NOT REQD.							
WINDOW DIMS.		GLASS TYPES 'B' OR 'E' & FASTENERS AT					
		12" O.C.		9" O.C.			
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)		
36"	60"	80.0	80.0	80.0	80.0		
39"		80.0	80.0	80.0	80.0		
42"		80.0	80.0	80.0	80.0		
45"		80.0	80.0	80.0	80.0		
48"		80.0	80.0	80.0	80.0		
51"		80.0	80.0	80.0	80.0		
54"		80.0	80.0	80.0	80.0		
57"		80.0	80.0	80.0	80.0		
60"		80.0	80.0	80.0	80.0		
36"		66"	80.0	80.0	80.0	80.0	
39"	80.0		80.0	80.0	80.0		
42"	80.0		80.0	80.0	80.0		
45"	80.0		80.0	80.0	80.0		
48"	80.0		80.0	80.0	80.0		
51"	80.0		80.0	80.0	80.0		
54"	80.0		80.0	80.0	80.0		
57"	80.0		80.0	80.0	80.0		
60"	80.0		80.0	80.0	80.0		
36"	72"		80.0	80.0	80.0	80.0	
39"		80.0	80.0	80.0	80.0		
42"		80.0	80.0	80.0	80.0		
45"		80.0	80.0	80.0	80.0		
48"		80.0	80.0	80.0	80.0		
51"		80.0	80.0	80.0	80.0		
54"		80.0	80.0	80.0	80.0		
36"		78"	80.0	80.0	80.0	80.0	
39"			80.0	80.0	80.0	80.0	
42"			80.0	80.0	80.0	80.0	
45"	80.0		80.0	80.0	80.0		
48"	80.0		80.0	80.0	80.0		
51"	80.0		80.0	80.0	80.0		
36"	84"		80.0	80.0	80.0	80.0	
39"			80.0	80.0	80.0	80.0	
42"			80.0	80.0	80.0	80.0	
45"			80.0	80.0	80.0	80.0	
48"		80.0	80.0	80.0	80.0		
36"		90"	80.0	80.0	80.0	80.0	
39"			80.0	80.0	80.0	80.0	
42"			80.0	80.0	80.0	80.0	
36"			96"	80.0	80.0	80.0	80.0
39"				80.0	80.0	80.0	80.0
42"	80.0			80.0	80.0	80.0	

LARGE MISSILE IMPACT RESISTANT WINDOWS SHUTTERS NOT REQD.					
WINDOW DIMS.		GLASS TYPE 'C' & FASTENERS AT			
		12" O.C.			
WIDTH	LENGTH	EXT. (+)	INT. (-)		
24"	42"	65.0	65.0		
27"		65.0	65.0		
30"		65.0	65.0		
33"		65.0	65.0		
36"		65.0	65.0		
39"		65.0	65.0		
42"		65.0	65.0		
45"		65.0	65.0		
48"		65.0	65.0		
24"		48"	65.0	65.0	
27"	65.0		65.0		
30"	65.0		65.0		
33"	65.0		65.0		
36"	65.0		65.0		
39"	65.0		65.0		
42"	65.0		65.0		
45"	65.0		65.0		
24"	54"		65.0	65.0	
27"			65.0	65.0	
30"		65.0	65.0		
33"		65.0	65.0		
36"		65.0	65.0		
39"		65.0	65.0		
24"		60"	65.0	65.0	
27"			65.0	65.0	
30"			65.0	65.0	
33"			65.0	65.0	
36"	65.0		65.0		
24"	66"		65.0	65.0	
27"			65.0	65.0	
30"			65.0	65.0	
24"			78"	65.0	65.0
27"				65.0	65.0
24"		84"		65.0	65.0



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

Engr. DR. HUMAYOON FAROOQ
STRUCTURES

SFP 25 2002

Approved as complying with the
Florida Building Code
Date 12/12/02
NOA# 02-1009.12
Miami Dade Product Control
Div. Product Control
By Glenn B...

af

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W02-72YK

YKK AP ALUMINUM FIXED WINDOW (L.M.I.)
YKK AP AMERICA INC.
5630 GWALTNEY DRIVE
ATLANTA, GA. 30336
TEL (404) 629-3800 FAX(404) 629-3810

revisions:
no date by description

date: 08-23-02
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W02-72

sheet 2 of 4

WOOD BUCKS NOT BY YKK AMERICA INC. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" TAPCONS

- INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-3/8" MIN. PENETRATION INTO WOOD
- THRU 1BY WOOD BUCKS INTO MASONRY OR CONC.
1-1/4" MIN. EMBED INTO MASONRY OR CONC.
- DIRECTLY INTO MASONRY OR CONC.
1-1/4" MIN. EMBED INTO MASONRY OR CONC.

1/4" DRILLFLEX BY ELCO OR EQUIV.

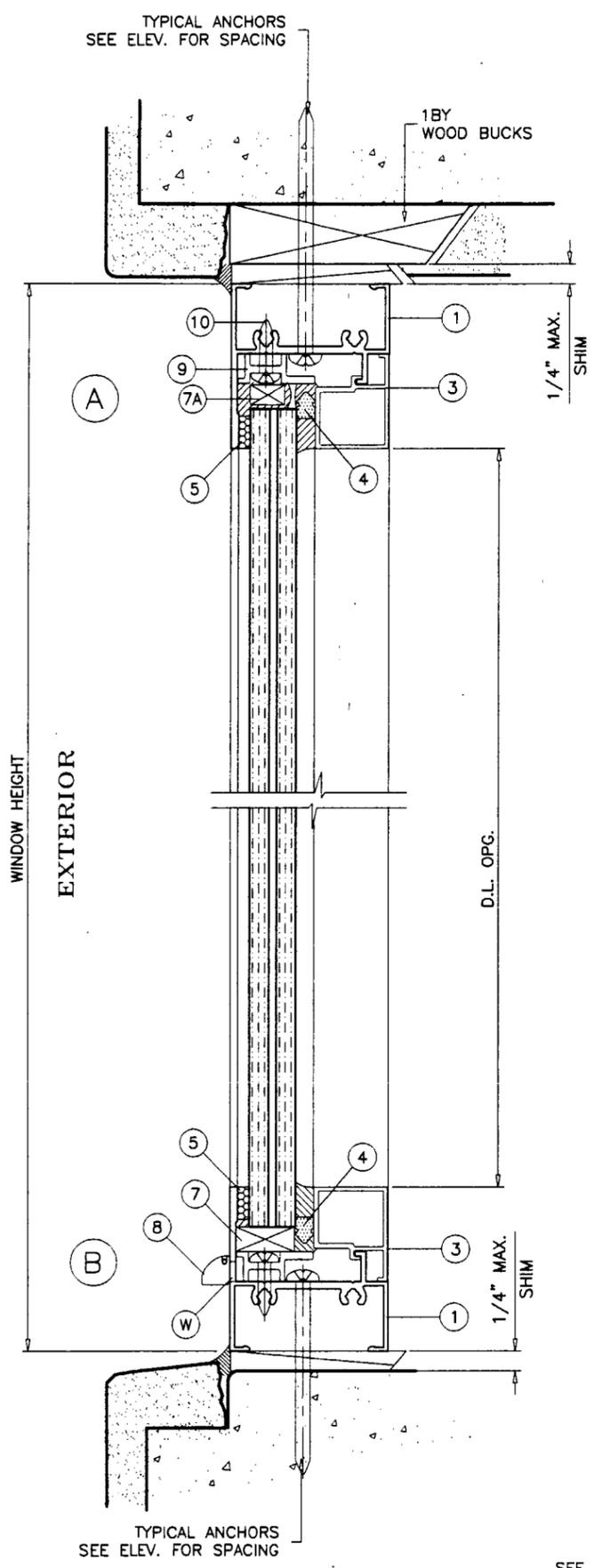
- INTO STEEL OR ALUMINUM MULLIONS
(NO SHIM SPACE)
- INTO METAL STRUCTURES (1/8" MIN. THICKNESS)
(1/4" MAX. SHIM SPACE)

SEALANTS:

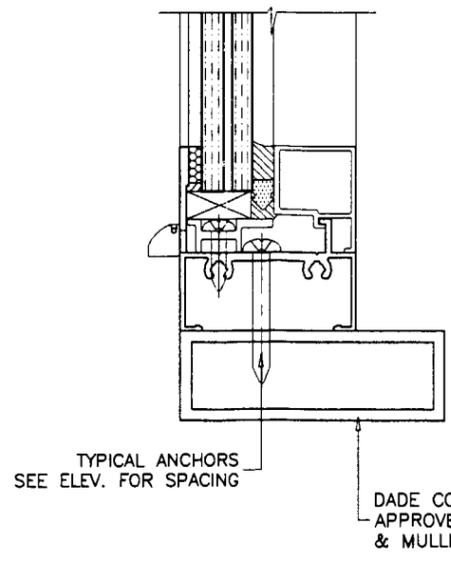
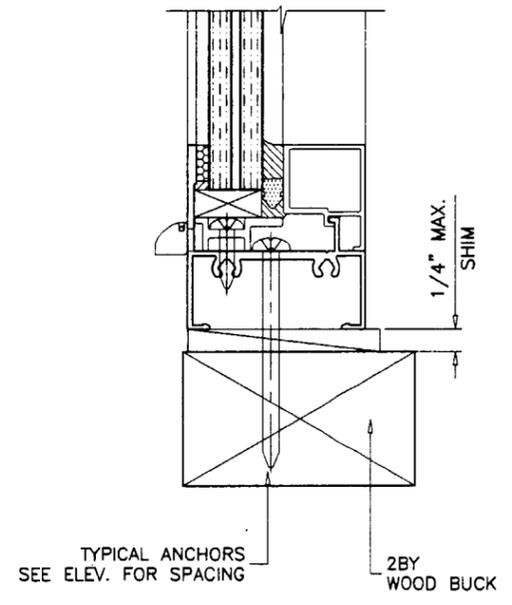
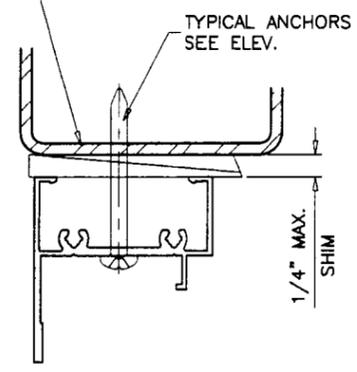
FRAME CORNERS, INSTALLATION SCREWS AND GLAZING BEAD ENDS SEALED WITH DOW CORNING 795 SILICONE SEALANT.

WEEP HOLES:

W = 1/4" X 1" WEEP SLOTS AT CENTER OF SILL.



METAL STRUCTURES
(STEEL OR ALUM. 1/8" MIN. THICK)
STEEL : Fy = 36 KSI MIN.
ALUMINUM : 6063-T5 MIN.



Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE. # 16557
SEP 25 2002

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Miami Dade Product Control
Division
By *Charles...*

afc

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W02-72YKK

YOW-200 ALUMINUM FIXED WINDOW (L.M.I.)

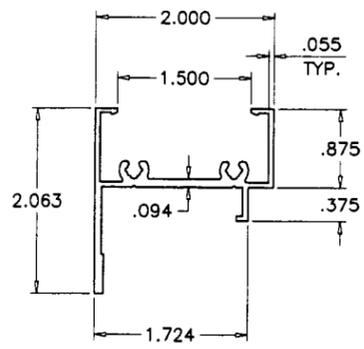
YKK AP AMERICA INC.
5630 GWALTNEY DRIVE
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revisions:	no	date	by	description

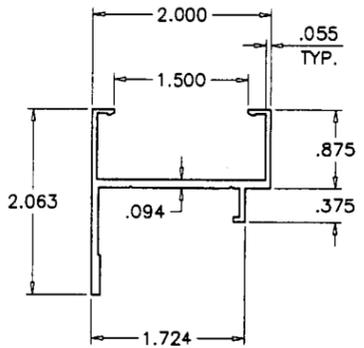
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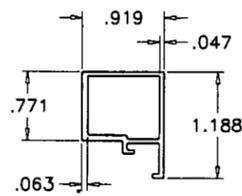
sheet 3 of 4



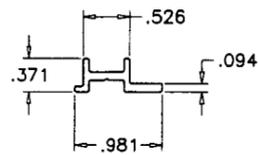
FRAME HEAD/SILL



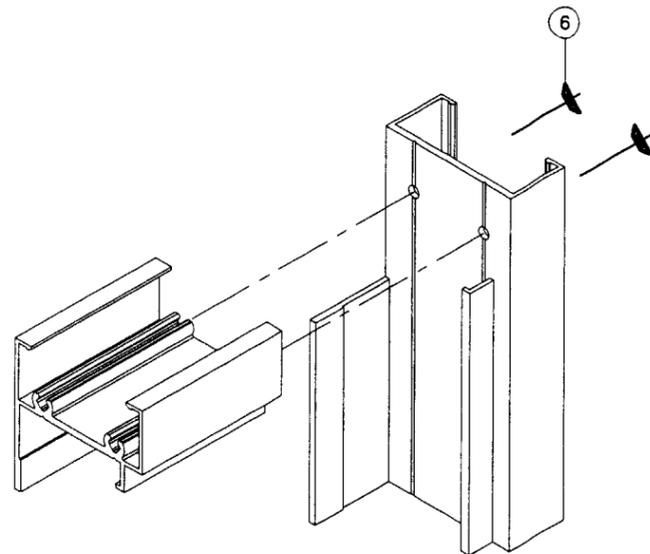
FRAME JAMB



GLAZING BEAD

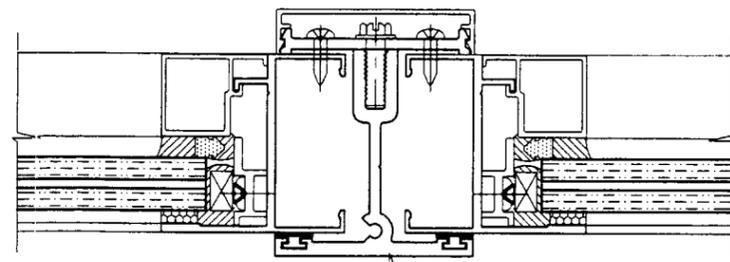
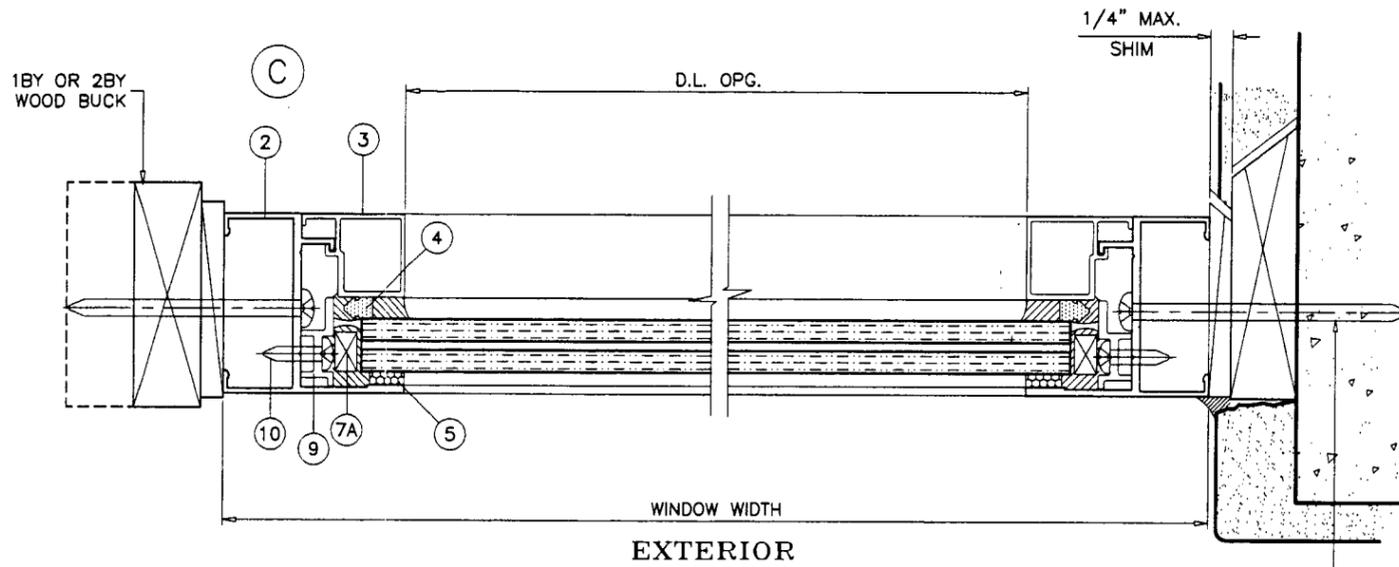


SETTING CHAIR



TYPICAL CORNER DETAIL

MATERIALS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPLIER/REMARKS
1	E9-4401	2/ WDW	FRAME HEAD/SILL	6063-T5	YKK AMERICA INC.
2	E9-4402	2/ WDW	FRAME JAMB	6063-T5	YKK AMERICA INC.
3	E9-4451	4/ WDW	GLAZING STOP	6063-T5	YKK AMERICA INC.
4	E2-0359	AS REQD.	ARROW SPACER, 4" LONG	DUROMETER	1/4 POINTS + 1 AT CL FOR LENGTH>62"
5	E2-0645	AS REQD.	GLAZING TAPE	EPDM SPONGE	-
6	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	CRS	PH SMS
7	E2-9907	AS REQD.	SETTING BLOCKS	EPDM	5/16" X 3/4" X 4" LONG
7A	E2-0623	AS REQD.	SIDE BLOCKS	EPDM	1/4" X 7/16" X 4" LONG
8	E3-1101	2/ WDW	WEEP COVER	NYLON	AT WEEP SLOTS
9	E9-4454	AS REQD.	SETTING CHAIR	6063-T5	YKK AMERICA INC.
10	#10 X 1"	AS REQD.	SETTING CHAIR SCREWS	-	PH SMS



Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557

~~SEP 25 2002~~

Approved as complying with the
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Date 12/12/02
NOA# 02-1009.12
Miami Dade Product Control
Div. By *[Signature]*

AL-FAROOQ CORPORATION
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sheet 4 of 4