



**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-225H" Aluminum Project Out Window (S.M.I)**

**APPROVAL DOCUMENT:** Drawing No. **W03-69**, titled "YOW-225H Aluminum Project Out Window (S.M.I)", sheets 1 through 5 of 5, prepared by manufacturer, dated 08-16-03 and last revised on 10-31-03, signed and sealed by Dr. Humayoun Farooq, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: 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 and evidence pages E1, as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**

12/18/03



**NOA No 03-1006.06  
Expiration Date: January 08, 2009  
Approval Date: January 08, 2004  
Page 1**

**YKK AP America**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **W03-69**, titled "YOW-225H Aluminum Project Out Window (S.M.I)", sheets 1 through 5 of 5, prepared by manufacturer, dated 08-16-03 and last revised on 10-31-03, signed and sealed by Dr. Humayoun Farooq.

**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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Small Missile Impact Test per FBC, TAS 201-94along with marked-up drawings and installation diagram of an aluminum project out window, prepared by Hurricane Test Laboratory, Inc., Test Report No. FTL-0231-0810-02, dated 08/23/02, 08/21/02, and 08/20/02, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by AL-Farooq Corporation, dated 09/25/03, signed and sealed by Humayoun Farooq, P.E.

**D. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **00-1212.04** issued to E.I. DuPont DeNemours for "DuPont Butacite ® PVB" dated 02/15/01, expiring on 12/11/05.
2. Notice of Acceptance No. **01-0250.02** issued to Solutia, Inc. for "Saflex / Keepsafe Maximum" dated 5/17/01, expiring on 5/21/06.

**E. QUALITY ASSURANCE**

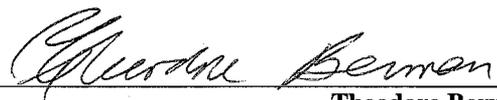
1. Miami-Dade County Building Code Compliance Office

**F. STATEMENTS**

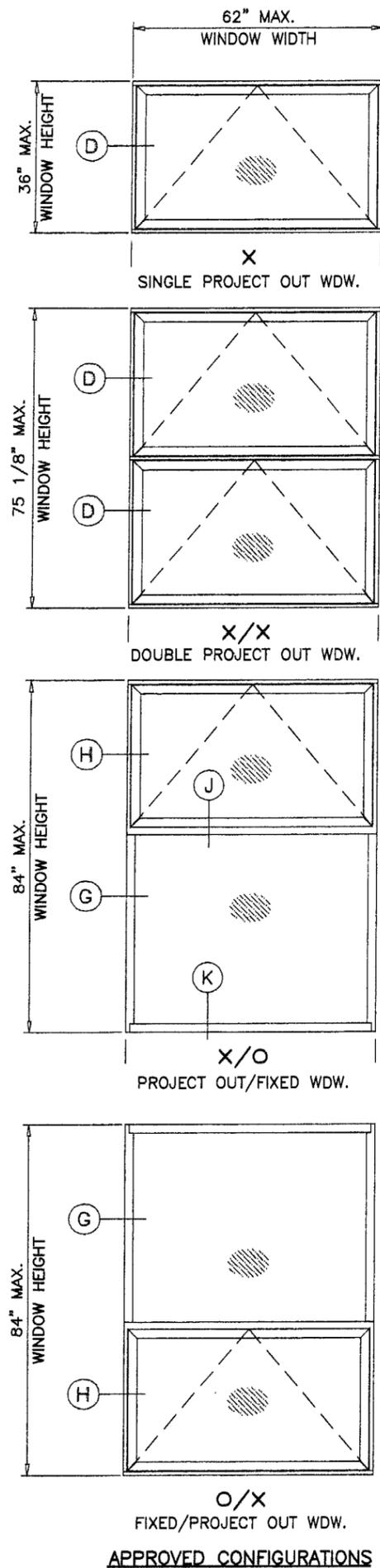
1. Statement letter of conformance, dated 09/25/03, signed and sealed by Dr Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated 09/25/03, signed and sealed by Dr Humayoun Farooq, P.E.

**G. OTHER**

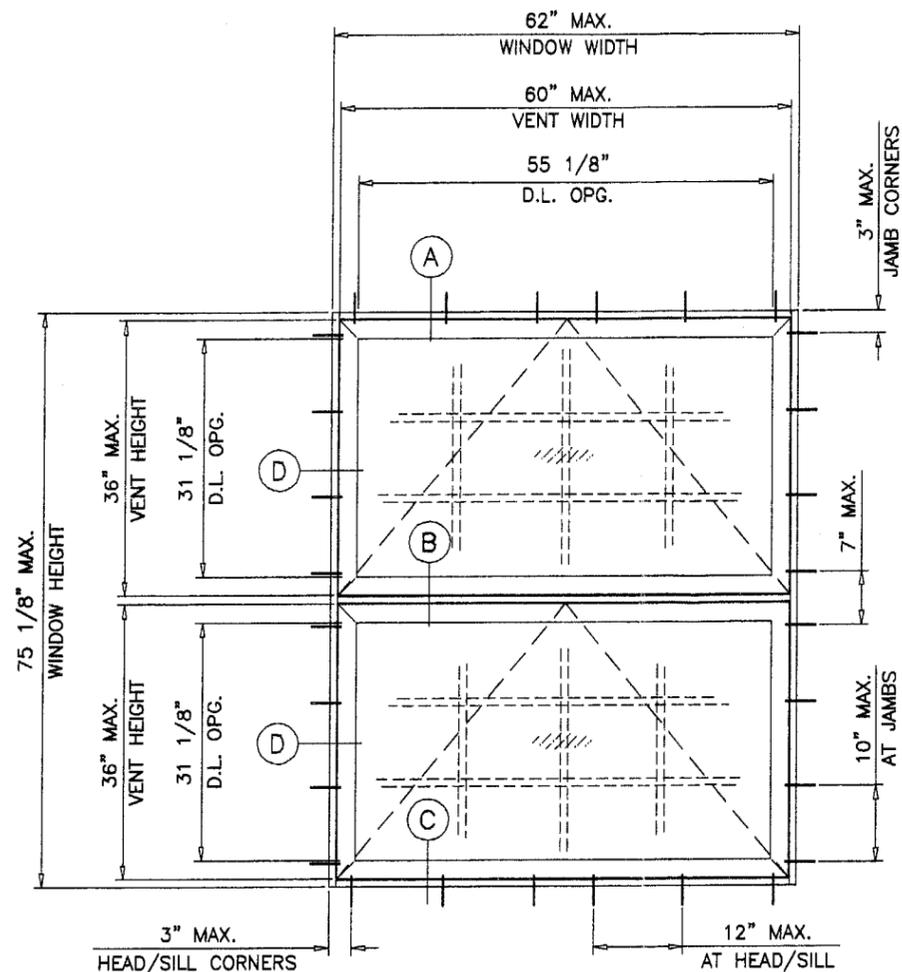
1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).



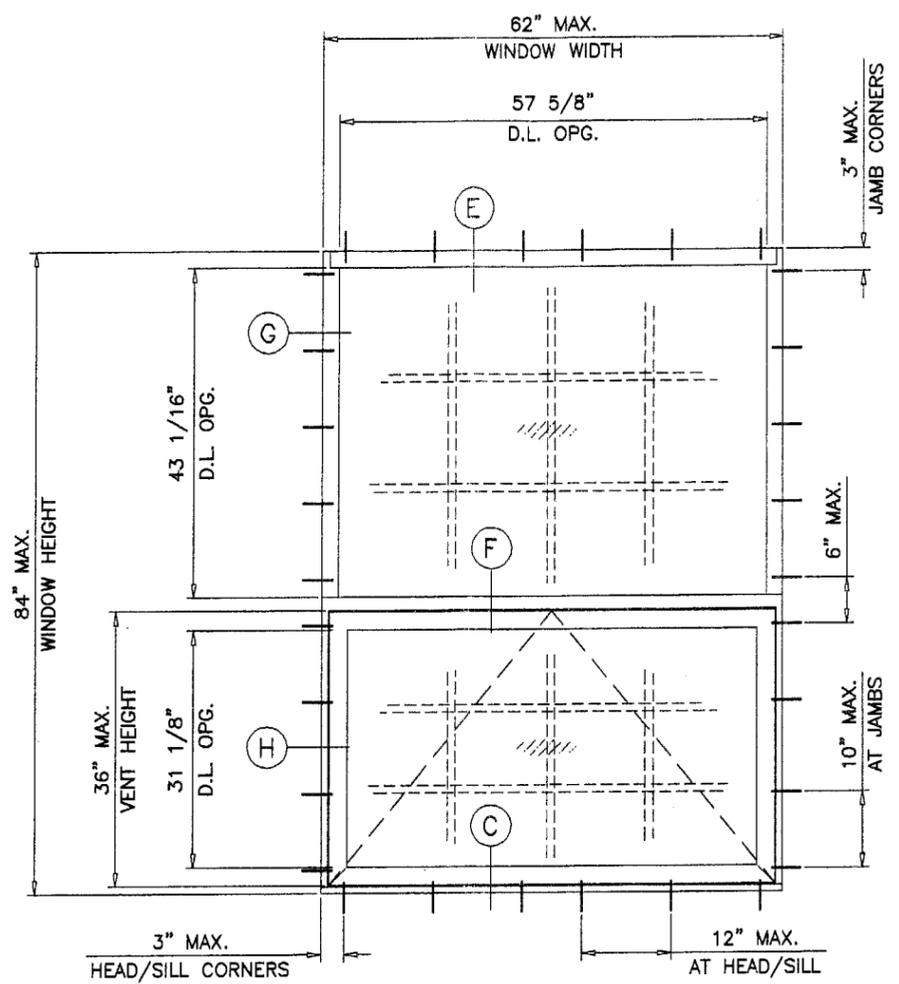
**Theodore Berman, P.E.**  
Deputy Director, Product Control Division  
NOA No 03-1006.06  
Expiration Date: January 08, 2009  
Approval Date: January 08, 2004



APPROVED CONFIGURATIONS



TYPICAL ELEVATION  
TESTED UNITS



**YOW-225H ALUM PROJECT OUT WINDOW (S.M.I.)**

WINDOWS WITH LAMINATED GLASS 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

APPROVAL APPLIES TO:  
SINGLE VENT WINDOWS OF X CONFIGURATION.  
DUAL VENT WINDOWS OF X/X CONFIGURATION.  
AWNING/FIXED COMBINATIONS OF X/O OR O/X CONFIGURATIONS.  
ALSO SIDE BY SIDE COMBINATIONS OF TWO OR MORE 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 7-88, ASCE 7-93, ASCE 7-95 OR  
ASCE 7-98 AS REQUIRED BY PREVAILING BUILDING CODE.

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.

MAXIMUM DESIGN LOAD RATING = + 65.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 65.0 PSF

Approved as complying with the  
Florida Building Code  
Date 01/06/04  
NOA# 03-1006.06  
Miami Dade Product Control  
Division  
By: *Glenn Beaman*

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 15557  
C.A.N. 3538

NOV 11 2003

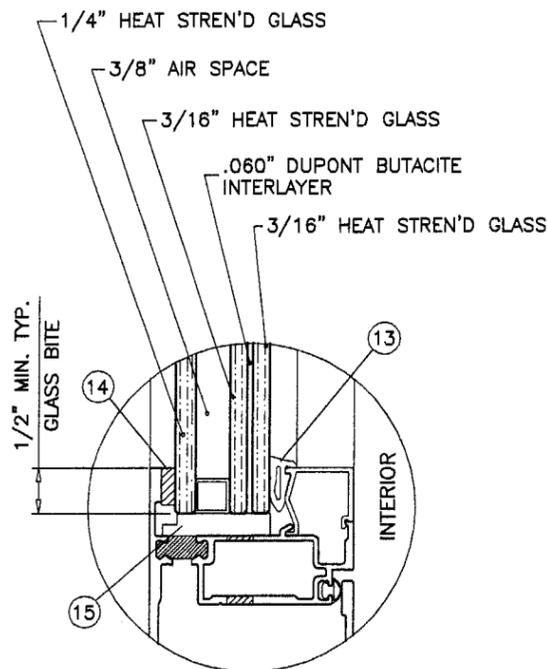
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX (305) 262-6978  
COMP-ANL/W03-69YKK

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

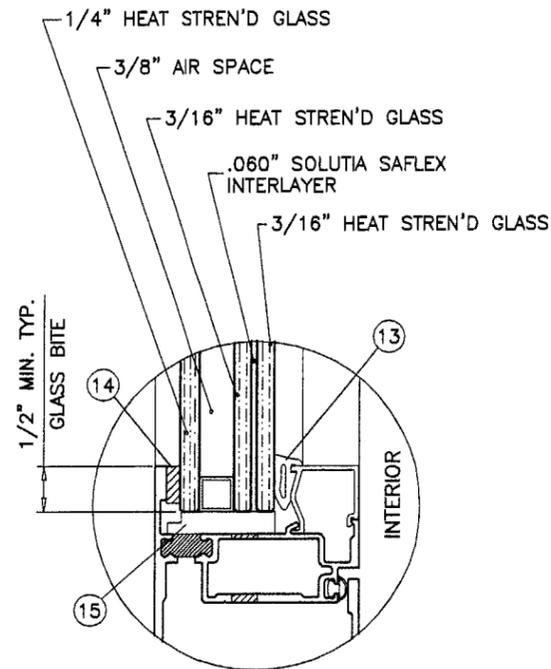
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date: 08-16-03	scale: 1/2"=1'-0"	dr. by: HAMID	chk. by:
drawing no. W03-69			
sheet 1 of 5			



GLASS TYPE 'F'



GLASS TYPE 'G'

1-1/16" OVERALL LAMINATED GLASS  
SMALL MISSILE IMPACT RESISTANT

GLAZING OPTIONS

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" DIA. ELCO DRILLFLEX 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 JOINTS SEALED WITH BUTYL RUBBER  
CORNER GASKET (#E2-0644).  
TREMCO SPECTRUM 2 SILICONE SEALANT AT PERIMETER.

WEEP HOLES:

W1 = 1/4" X 1-1/16" WEEP SLOT AT CENTERLINE.  
W2 = 9/32" DIA. WEEP HOLES AT 4" FROM EACH CORNER

LOCK OPTIONS:

BRONZECRAFT CAM HANDLES (E1-1541/1542)  
AT LOCK STILE OF VENT, 8" FROM EACH END  
SECURED WITH (2) #10 X 1/2" FH SMS.

BRONZECRAFT KEEPERS (E1-519)  
AT FRAME SILL/HORIZ. IMPOST FACING LOCKS  
SECURED WITH (2) #10 X 1/2" FH SMS.

Approved as complying with the  
Florida Building Code  
Date 01/08/04  
NOA# 03-1006.06  
Miami Dade Product Control  
Div.  
By: [Signature]

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

[Signature]  
NOV 11 2003

**afc**

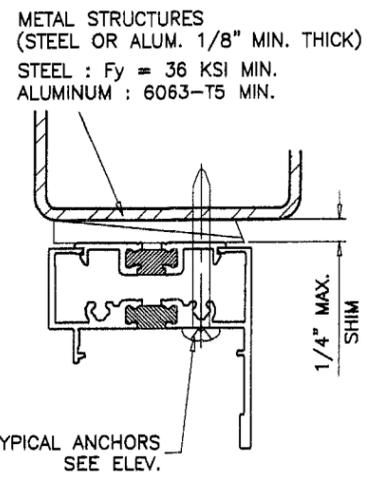
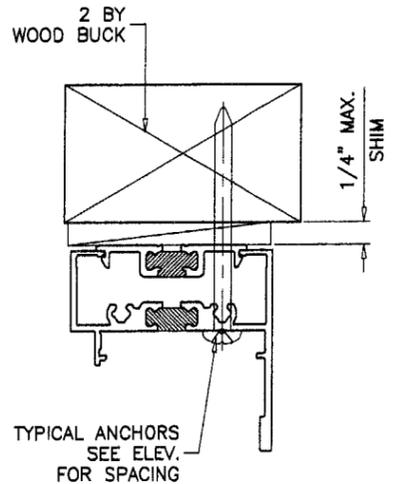
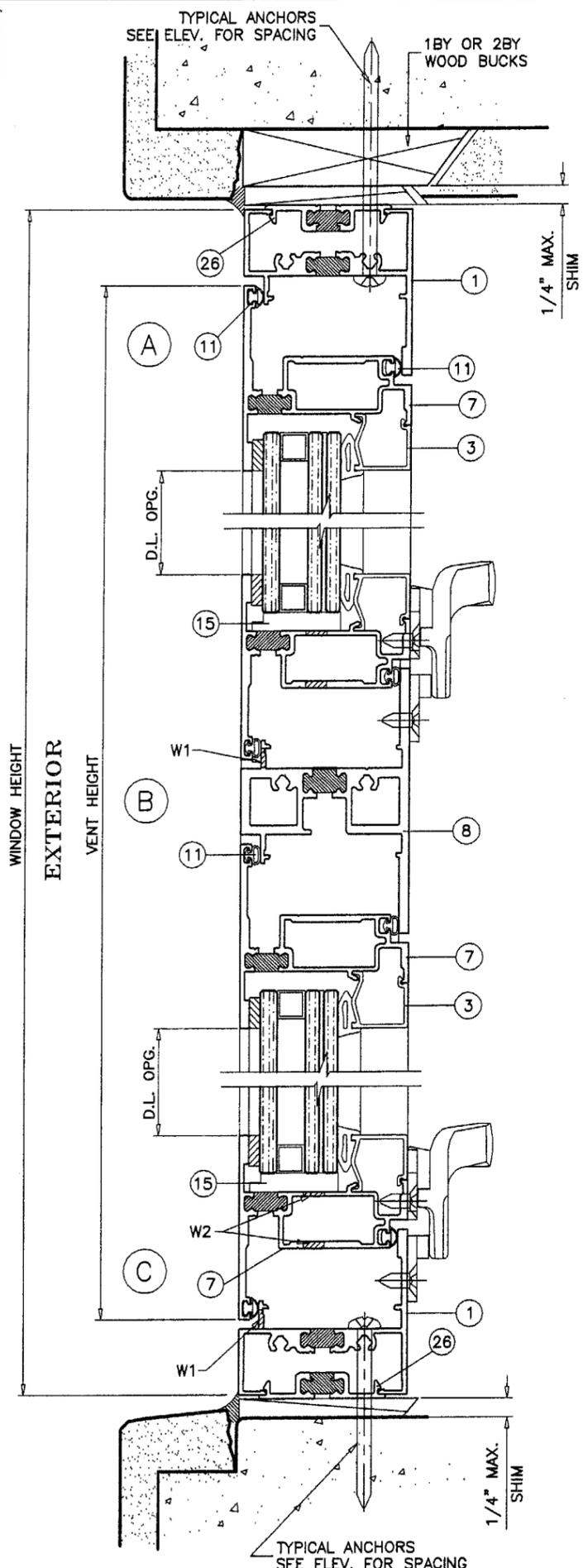
**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W03-69YKK

**YKK AP AMERICA INC.**  
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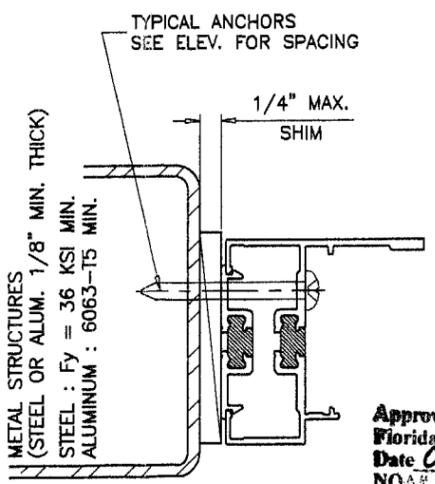
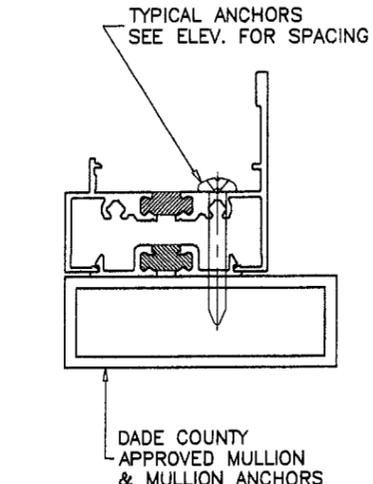
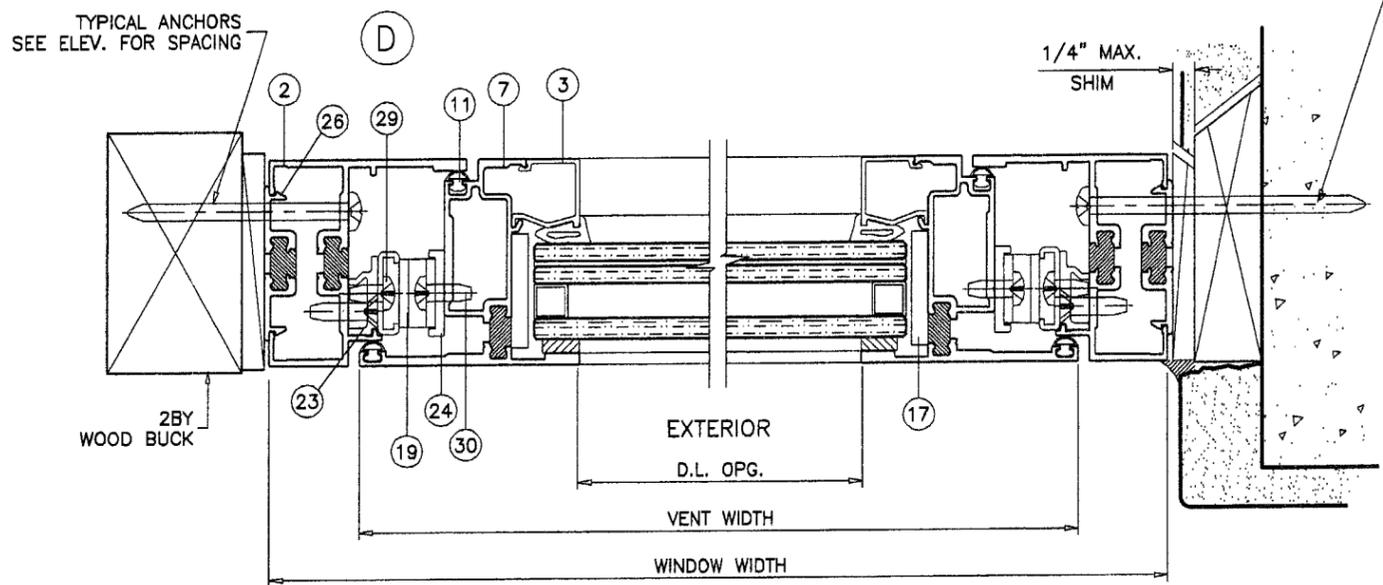
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date: 08-16-03  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. **W03-69**  
sheet 2 of 5



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



Approved as complying with the Florida Building Code  
 Date 01/08/04  
 NOA# 03-1006.06  
 Miami Dade Product Control  
 E. *[Signature]*

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
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revisions:	no	date	description
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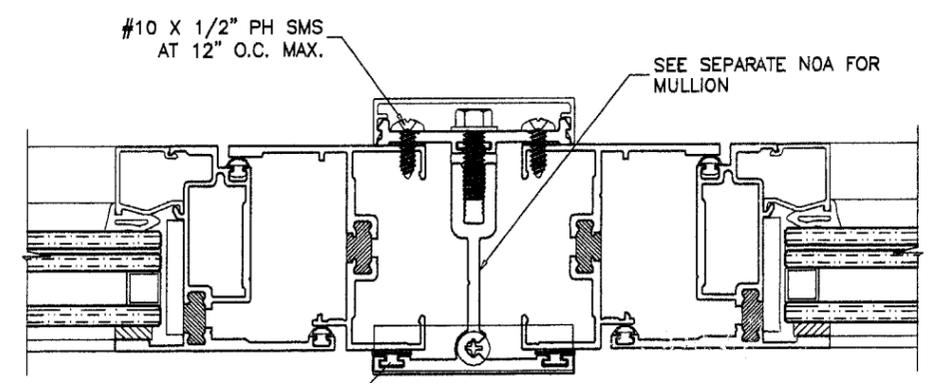
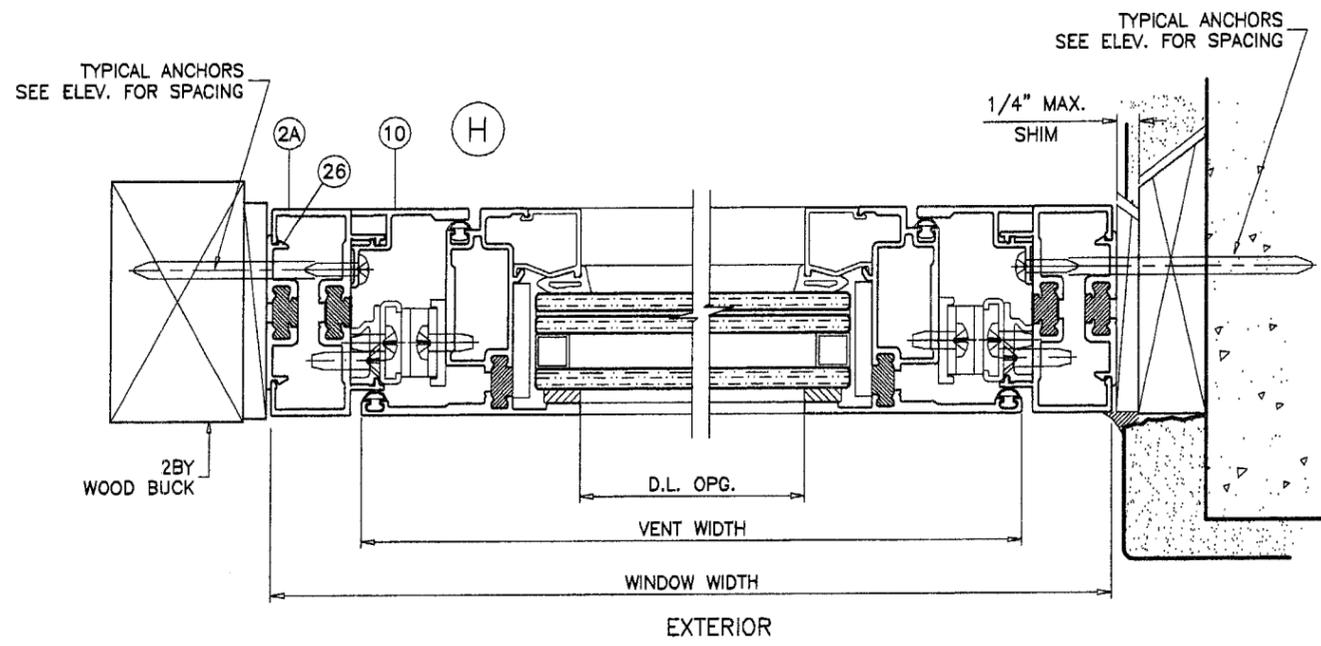
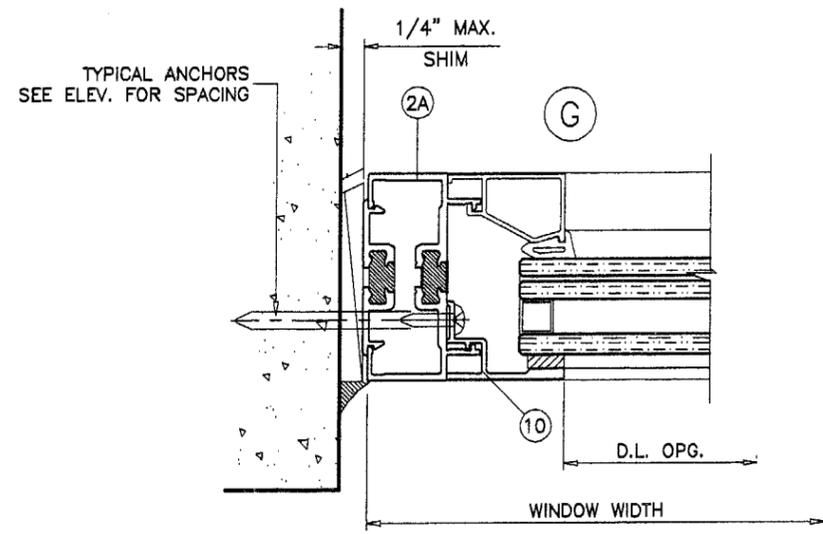
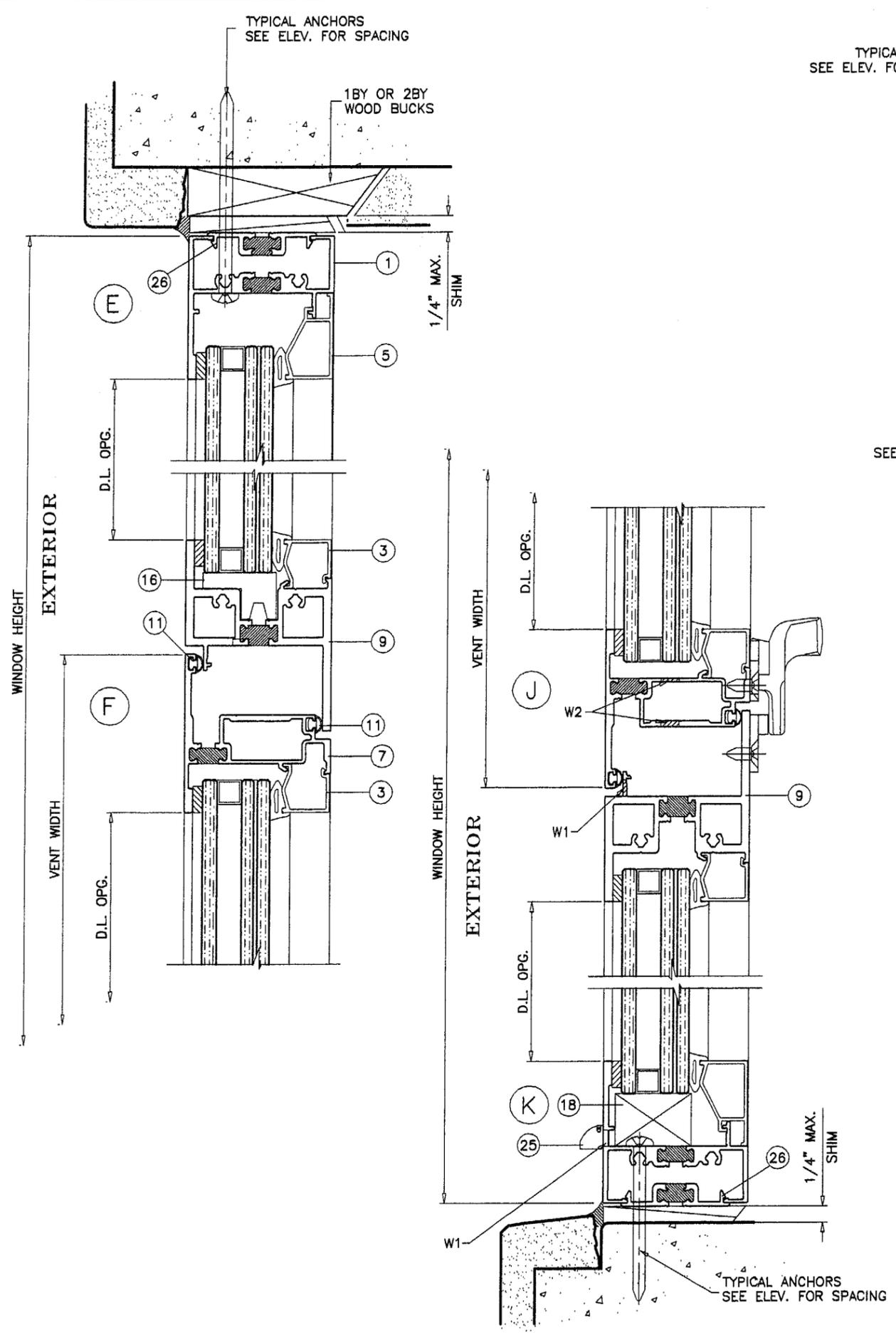
  

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dr. by: HAMID	chk. by:

drawing no.	W03-69
sheet	3 of 5

COMP-ANL\W03-69YKK



Approved as complying with the Florida Building Code  
 Date 01/08/04  
 NOA# 03-1006.06  
 Miami Code Product Control  
 Dir. *[Signature]*

Engr. DR. HUMAYOON FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
 NOV 11 2003

**afc**

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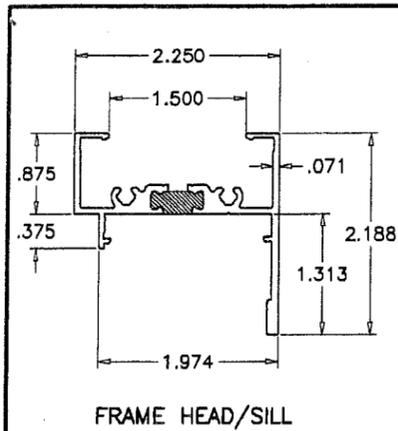
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YOW-225H ALUM PROJECT OUT WINDOW (S.M.I.)

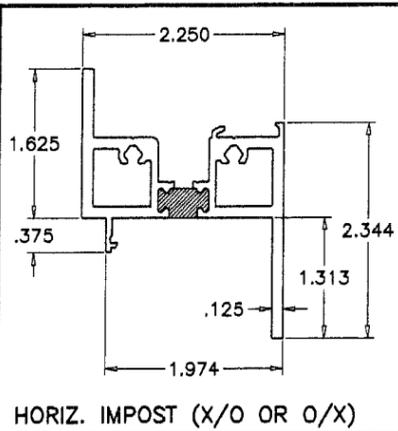
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 chk. by:

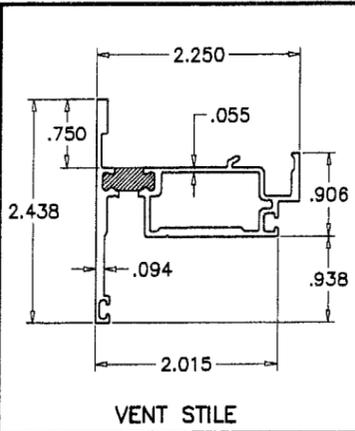
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 sheet 4 of 5



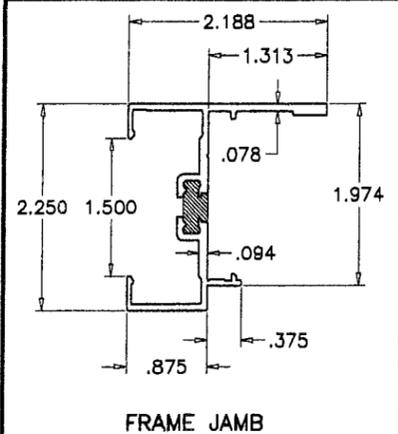
FRAME HEAD/SILL



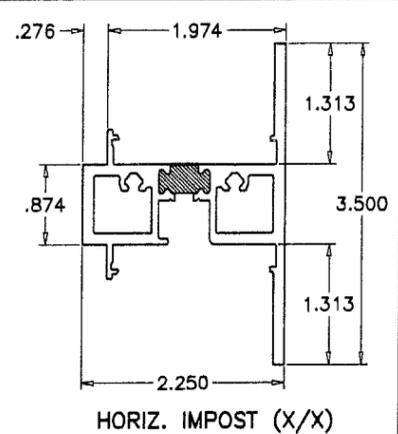
HORIZ. IMPOST (X/O OR O/X)



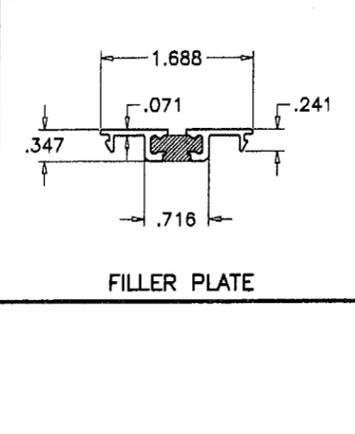
VENT STILE



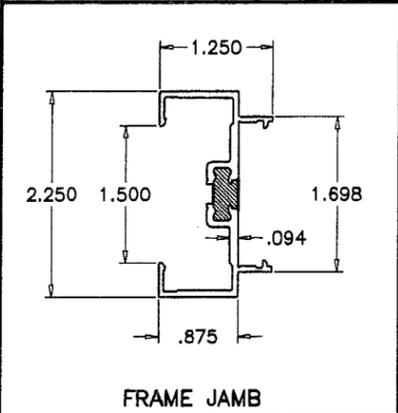
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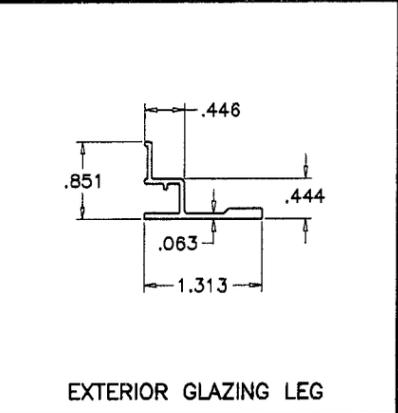
HORIZ. IMPOST (X/X)



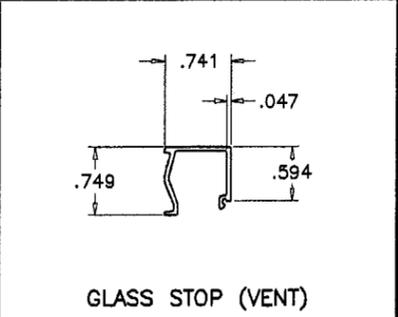
FILLER PLATE



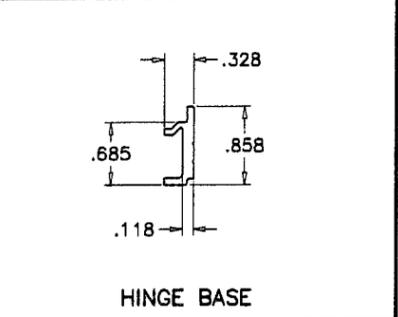
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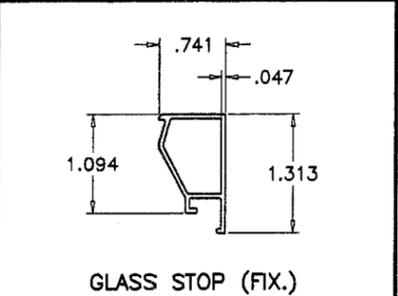
EXTERIOR GLAZING LEG



GLASS STOP (VENT)

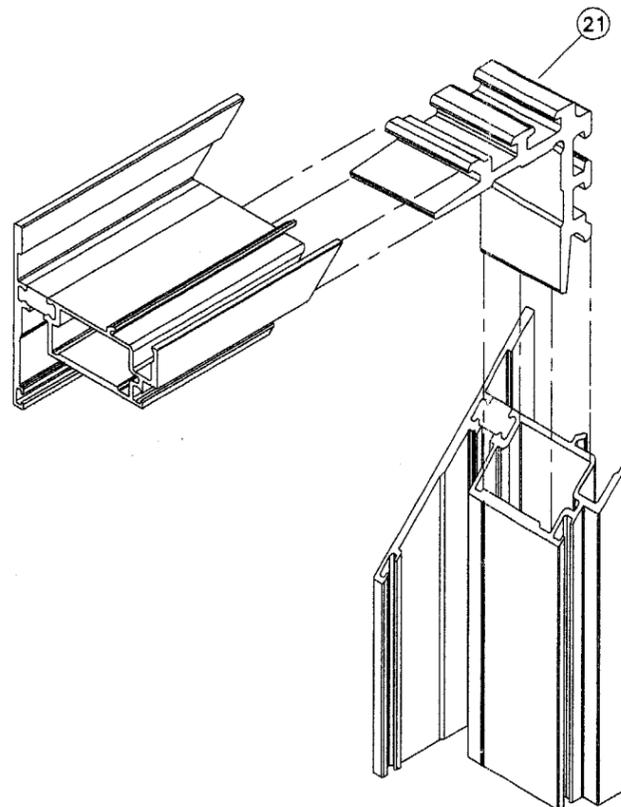


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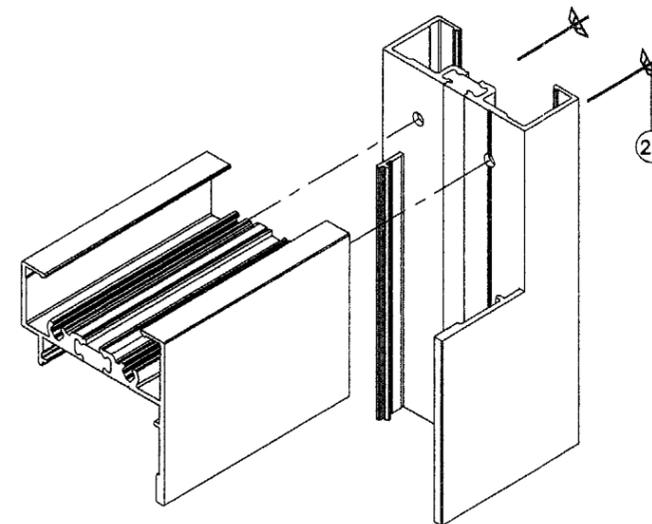


GLASS STOP (FIX.)

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	BE9-4501	2/ WDW	FRAME HEAD/SILL	6063-T5	YKK AMERICA INC.
2	BE9-4502	2/ WDW	FRAME JAMB	6063-T5	YKK AMERICA INC.
2A	BE9-4503	AS REQD.	FRAME JAMB	6063-T5	YKK AMERICA INC.
3	E9-4526	4/ WDW	GLAZING STOP (VENT)	6063-T5	YKK AMERICA INC.
5	E9-4524	4/ WDW	GLAZING STOP (FIX. LITE)	6063-T5	YKK AMERICA INC.
7	BE9-4504	4/ WDW	VENT STILE	6063-T5	YKK AMERICA INC.
8	BE9-4512	AS REQD.	HORIZ. IMPOST (X/X)	6063-T5	YKK AMERICA INC.
9	BE9-4509	AS REQD.	HORIZ. IMPOST (X/O OR O/X)	6063-T5	YKK AMERICA INC.
10	E9-4513	AS REQD.	EXTERIOR GLAZING LEG	6063-T5	YKK AMERICA INC.
11	E2-0625	AS REQD.	BULB WEATHERSTRIPPING	PVC	YKK AMERICA INC.
12	E2-0051	AS REQD.	BULB W'STRIPPING AT MULLION	PVC	YKK AMERICA INC.
13	E2-0617	AS REQD.	WEDGE GASKET	EPDM	-
14	E2-0648	AS REQD.	GLAZING TAPE (.198 X .406)	-	CLOSED CELL EPDM SPONGE
15	E2-0626	AS REQD.	SETTING BLOCKS	EPDM	1/4" X 1-3/16" X 4" LONG
16	E2-0647	AS REQD.	SETTING BLOCKS	EPDM	11/16" X 1-1/8" X 4" LONG
17	E2-0133	AS REQD.	SIDE BLOCKS	EPDM	-
18	E2-0646	AS REQD.	SETTING BLOCKS	EPDM	13/16" X 1-3/16" X 4" LONG
19	E1-1709	2/ VENT	16", 4-BAR SCISSOR HINGE	-	BRONZECRAFT
20	-	-	-	-	-
21	E1-1712	1/ CORNER	CORNER BLOCK	6063-T5	YKK AMERICA INC.
22	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	STEEL	PH SMS
23	E1-1711	2/ VENT	HINGE BASE	-	SECURED TO JAMB W/ (3) #10 X 3/4" FH SMS
24	E3-1105	2/ VENT	HINGE SPACER (10-1/2" LONG)	-	-
25	E3-1101	2/ WDW	WEEP COVER	NYLON	AT WEEP SLOTS
26	-	AS REQD.	FILLER PLATE, 2-1/2" LONG AT ANCHOR LOCATIONS	6063-T5	YKK AMERICA INC.
29	#10 X 3/8"	3/ HINGE	HINGE INSTALLATION SCREWS	-	PH SMS
30	#10 X 1/2"	3/ HINGE	HINGE INSTALLATION SCREWS	-	PH SMS



VENT CORNER



FRAME CORNER

Engr: DR. HIJMA YOLIN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3539

Approved by: *[Signature]*  
Date: 01/08/04  
NOA# 03-1006.06  
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NOV 11 2003

**afc**

**AL-FAROOQ CORPORATION**  
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YOW-225H ALUM PROJECT OUT WINDOW (S.M.I.)

revisions:	no	date	description
	A	10.31.03	REV. PER BCCO COMMENTS

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date: 08-16-03  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

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drawing no.  
**W03-69**

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sheet 5 of 5