



MIAMI-DADE COUNTY
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
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 YVS 410 TUH Aluminum Fixed Window-N.I.

APPROVAL DOCUMENT: Drawing No. **W04-97**, titled "Series YVS 410TUH Aluminum Fixed Window (N.I.)", sheets 1 through 5 of 5, prepared by AL-Farooq Corporation, dated 11/19/04 with revision "A" on 05/10/05, signed and sealed by Humayoun Farooq, P.E., 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: None

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 E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



NOA No 05-0301.08
Expiration Date: June 16, 2010
Approval Date: June 16, 2005
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturers die drawings and sections.
2. Drawing No. **W04-97**, titled "Series YVS 410TUH Aluminum Fixed Window (N.I.)", sheets 1 through 5 of 5, prepared by AL-Farooq Corporation, dated 11/19/04 with revision "A" on 05/10/05, 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
along with marked-up drawings and installation diagram of aluminum fixed window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0231-0118-04**, (specimen 1, 2, & 4) dated 11/29-12/02/04, signed and sealed by Vinu J. 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
along with marked-up drawings and installation diagram of aluminum fixed window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0231-0410-04**, dated 06/01-03/04 (specimen 1, 2, 3,4,5,6, & 7) signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300, and structural analysis, prepared by AL-Farooq Corporation, dated 01/25/05, signed and sealed by Humayoun Farooq, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

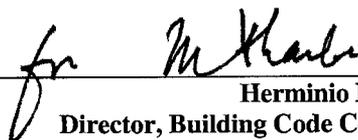
1. None

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated 01/24/05, signed and sealed by Humayoun Farooq, P.E.

G. OTHER

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



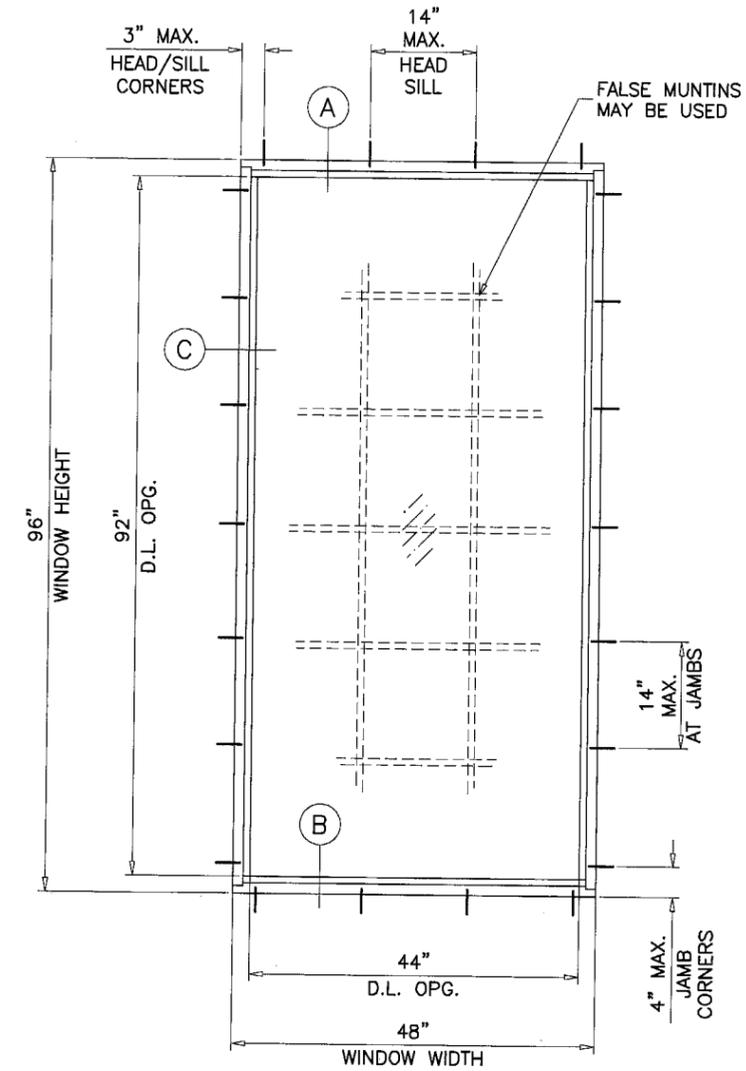
Herminio F. Gonzalez, P.E.

Director, Building Code Compliance Office

NOA No 05-0301.08

Expiration Date: June 16, 2010

Approval Date: June 16, 2005



TYPICAL ELEVATION
TESTED UNIT

Approved as complying with the
Florida Building Code
Date 06/16/05
NOA# 05-020109
Miami Dade Product Control
Division
By [Signature]

INSULATING GLASS
NON-IMPACT

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

MAY 16 2005

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

**SERIES YVS 410TUH
ALUMINUM FIXED WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE FIXED WINDOWS,
ALSO COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER MIAMI-DADE COUNTY APPR'D WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE.

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.

A 33% INCREASE IN ALLOWABLE STRESS WAS USED IN DESIGN OF ANCHORS.

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\W04-97YKK

YVS 410TUH ALUMINUM FIXED WINDOW (N.I.)

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

YKK AP

no	date	description
A	05.10.05	NO CHANGE THIS SHEET

date: 11-19-04
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

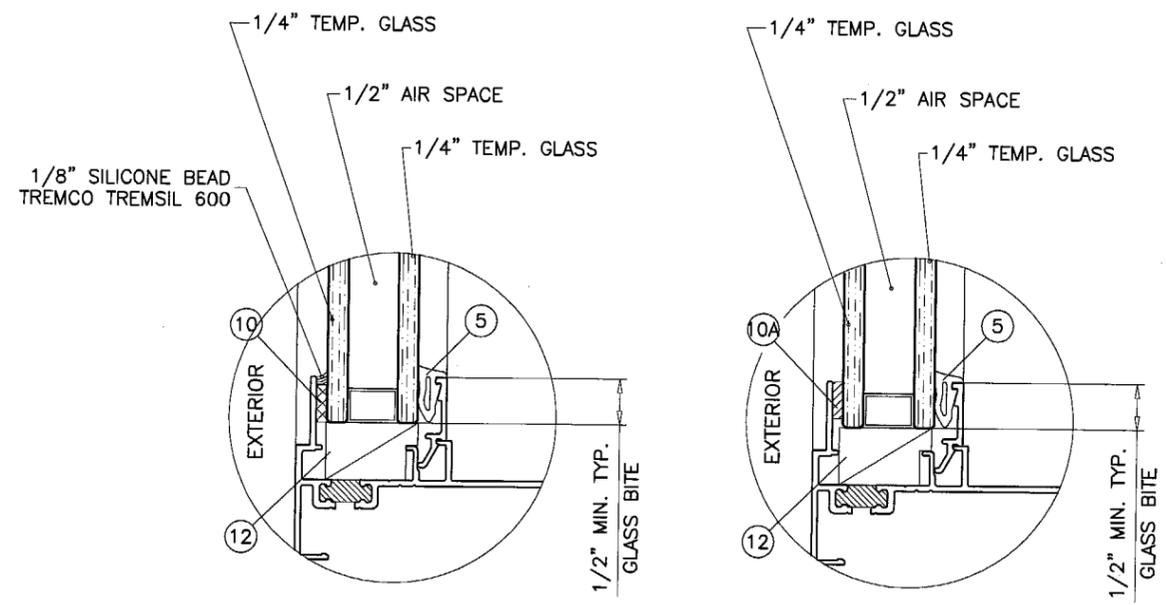
drawing no.
W04-97

sheet 1 of 5

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1" INSUL. GLASS	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)
18"	36"	133.3	210.0
24"		133.3	210.0
30"		128.0	192.0
36"		106.7	160.0
42"		106.7	160.0
48"		106.7	160.0
54"		106.7	160.0
60"		106.7	160.0
18"	48"	133.3	210.0
24"		133.3	210.0
30"		128.0	192.0
36"		106.7	160.0
42"		91.4	137.1
48"		80.0	120.0
54"		80.0	120.0
60"		80.0	120.0
18"	60"	133.3	210.0
24"		133.3	210.0
30"		128.0	192.0
36"		106.7	160.0
42"		91.4	137.1
48"		80.0	120.0
54"		71.1	106.7
60"		64.0	96.0
18"	72"	133.3	210.0
24"		133.3	210.0
30"		121.3	181.9
36"		106.7	160.0
42"		91.4	137.1
48"		80.0	120.0
54"		71.1	106.7
60"		64.0	96.0
18"	84"	133.3	210.0
24"		133.3	210.0
30"		116.9	175.3
36"		101.8	152.7
42"		91.4	137.1
48"		80.0	120.0
54"		71.1	106.7
60"		64.0	96.0
18"	90"	133.3	210.0
24"		133.3	207.7
30"		115.2	172.8
36"		100.0	150.0
42"		89.4	134.2
48"		80.0	120.0
54"		71.1	106.7
60"		64.0	96.0
18"	96"	133.3	210.0
24"		133.3	205.7
30"		113.8	170.7
36"		98.5	147.7
42"		87.8	131.7
48"		80.0	120.0
54"		71.1	106.7
60"		64.0	96.0

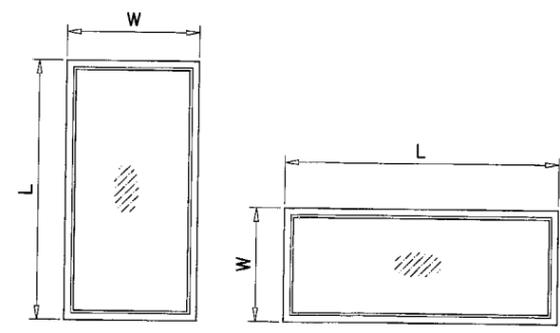
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1" INSUL. GLASS	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)
18"	108"	133.3	210.0
24"		133.3	202.5
30"		111.5	167.2
36"		96.0	144.0
42"		85.1	127.7
18"	120"	133.3	210.0
24"		133.3	197.0
30"		109.7	162.1
36"		94.1	139.1

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1" INSUL. GLASS	
WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)
19-1/8"	26"	133.3	210.0
26-1/2"		133.3	210.0
37"		133.3	210.0
48"		133.3	210.0
53-1/8"		133.3	210.0
19-1/8"	38-3/8"	133.3	210.0
26-1/2"		133.3	210.0
37"		103.8	155.7
48"		100.1	150.1
53-1/8"	100.1	150.1	
19-1/8"	50-5/8"	133.3	210.0
26-1/2"		133.3	210.0
37"		103.8	155.7
48"		80.0	120.0
53-1/8"	75.9	113.8	
19-1/8"	58"	133.3	210.0
26-1/2"		133.3	210.0
37"		103.8	155.7
48"		80.0	120.0
53-1/8"	72.3	108.4	
19-1/8"	63"	133.3	210.0
26-1/2"		133.3	206.4
37"		103.8	155.7
48"		80.0	120.0
53-1/8"	72.3	108.4	
19-1/8"	74-1/4"	133.3	210.0
26-1/2"		132.3	198.4
37"		103.7	155.5
48"		80.0	120.0
53-1/8"	72.3	108.4	



GLAZING TYPE 'A' GLAZING TYPE 'B'

GLAZING DETAIL



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

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

MAY 16 2005

Approved as complying with the
Florida Building Code
Date 06/16/05
NOA# 05-0301.05
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\W04-97YKK

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

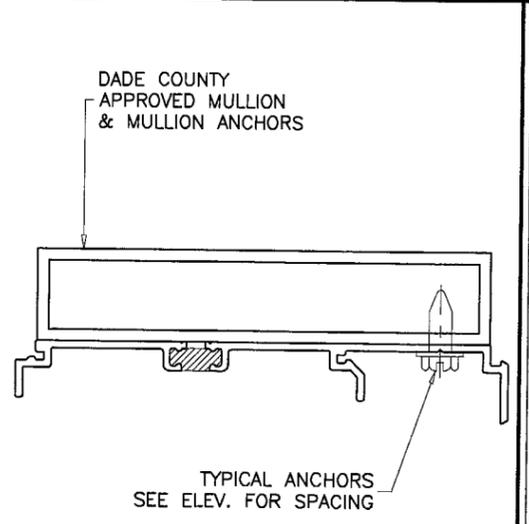
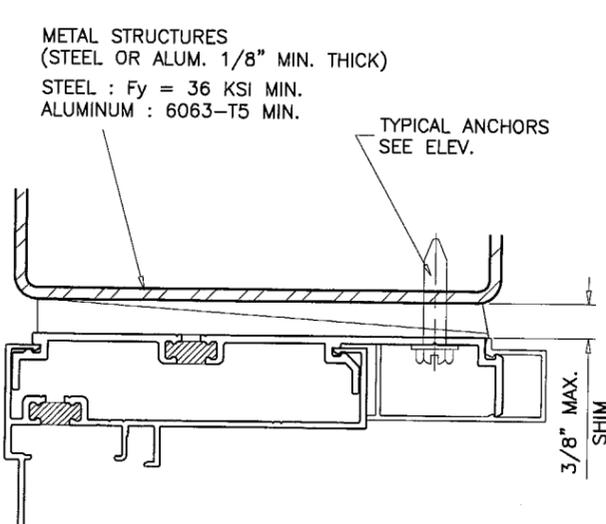
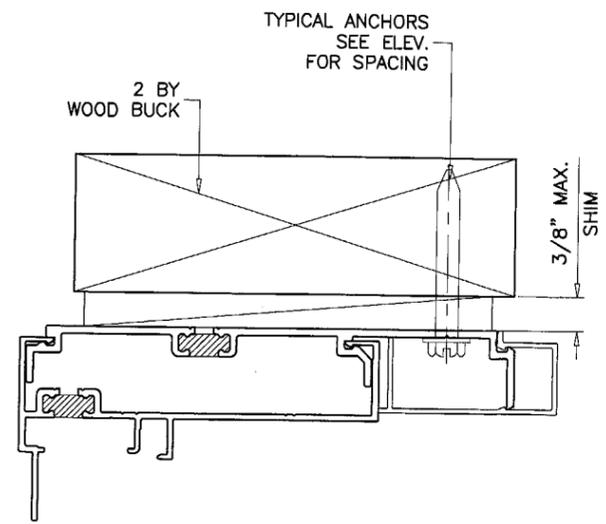
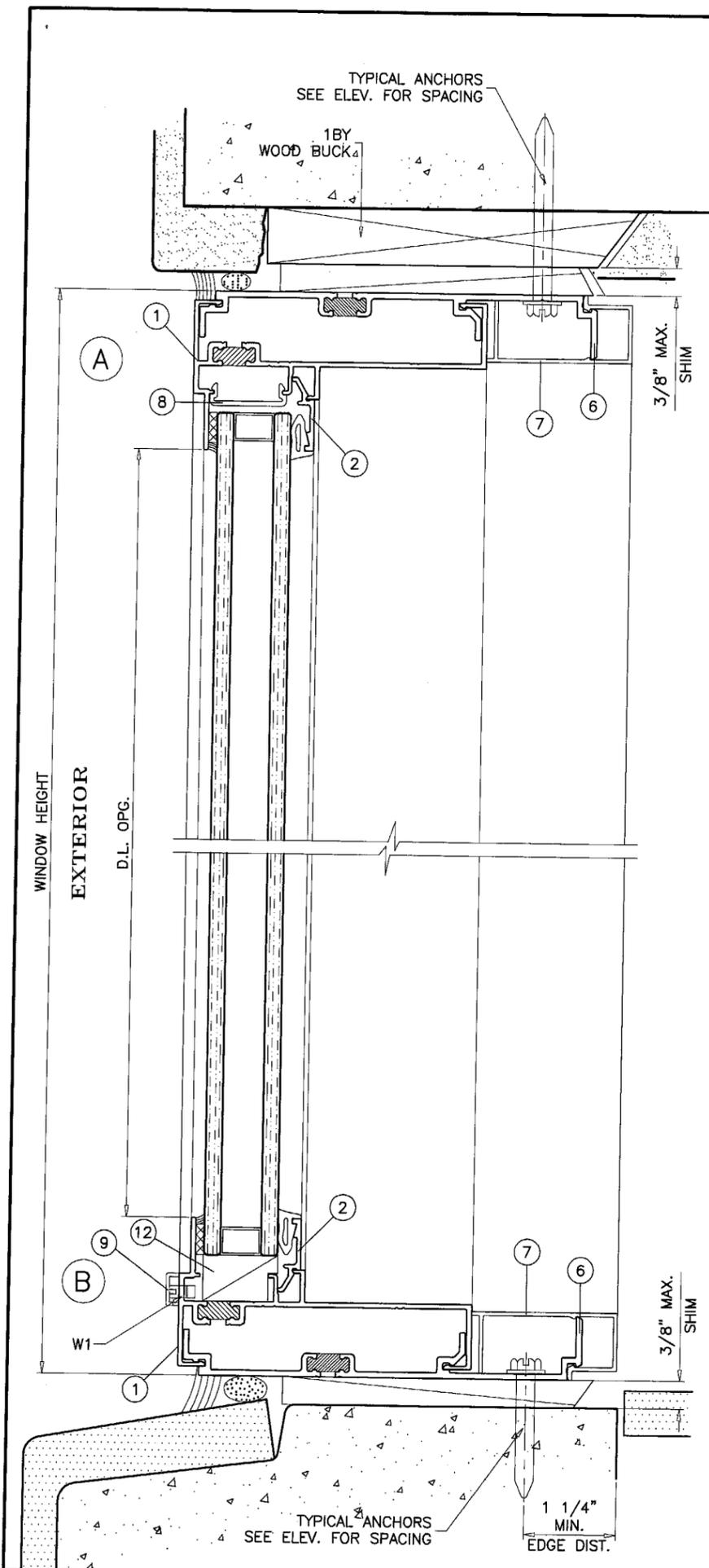
YYS 410TUH ALUMINUM FIXED WINDOW (N.I.)

no	date	description	REV. PER	COMMENTS
A	05.10.05			

date: 11-19-04
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W04-97

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.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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

1/4" DIA. TAPCONS
 DIRECTLY INTO MASONRY
 WITH 1-1/4" MIN. EMBED INTO MASONRY

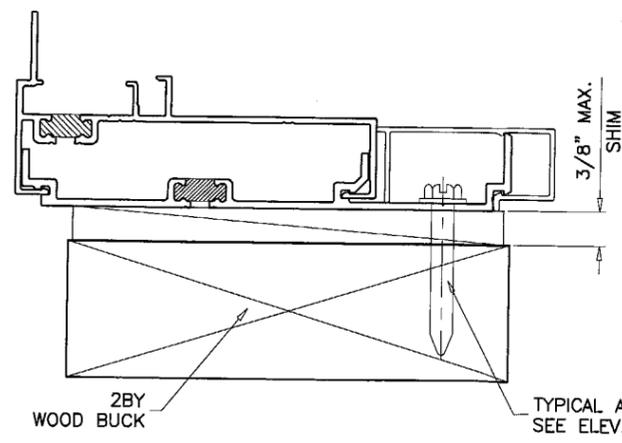
1/4" DIA. ELCO DRILLFLEX OR EQUIV.
 INTO METAL STRUCTURES
 (STEEL OR ALUMINUM 1/8" MIN. THICK.)

STEEL : Fy = 36 KSI MIN.
 ALUMINUM : 6063-T5 MIN.

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 1-1/4" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

SEALANTS:
 TREMCO SPECTRUM 2 SILICONE SEALANT AT PERIMETER.
 GE SILGLAZE II SILICONE AT FRAME & VENT JOINTS.

WEEP HOLES:
 W1 = 1/4" X 1-1/16" WEEP SLOT AT CENTER OF SILL
 WITH NYLON COVER.



Approved as complying with the
 Florida Building Code
 Date 05/16/05
 NOA# 05-0901.08
 Miami Dade Product Control
 Division
 By *[Signature]*

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

MAY 16 2005

afc

AL-FAROOQ CORPORATION
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 TEL. (305) 264-8100 FAX. (305) 262-6978
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YKK AP

no	date	by	description
A	05.10.05		NO CHANGE THIS SHEET

date: 11-19-04
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W04-97

sheet 3 of 5

afc

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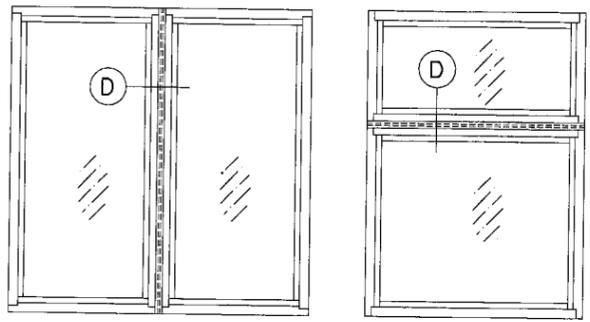
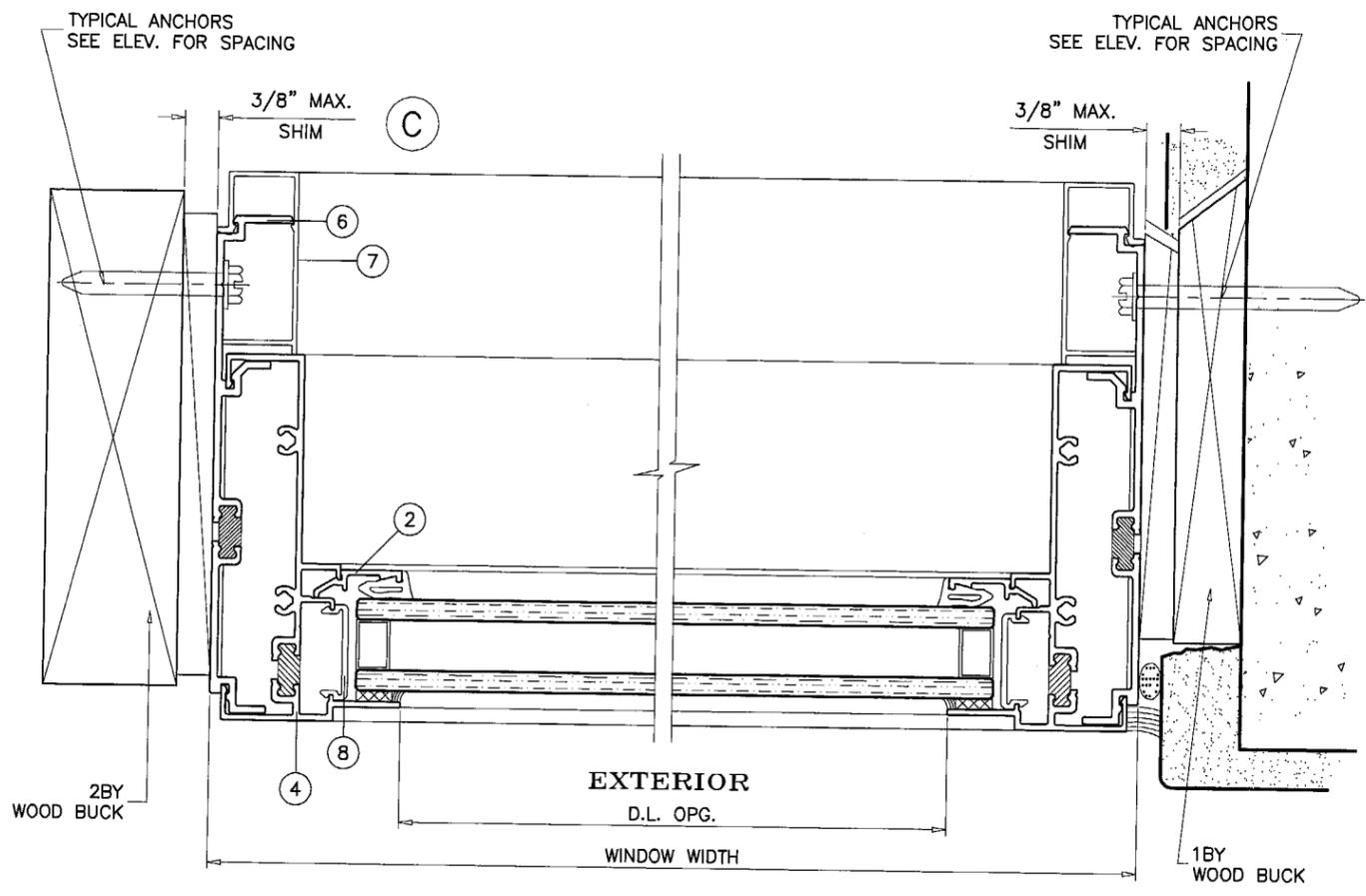


no	date	by	description
A	05.10.05		REV. PER BCCO COMMENTS

date: 11-19-04
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

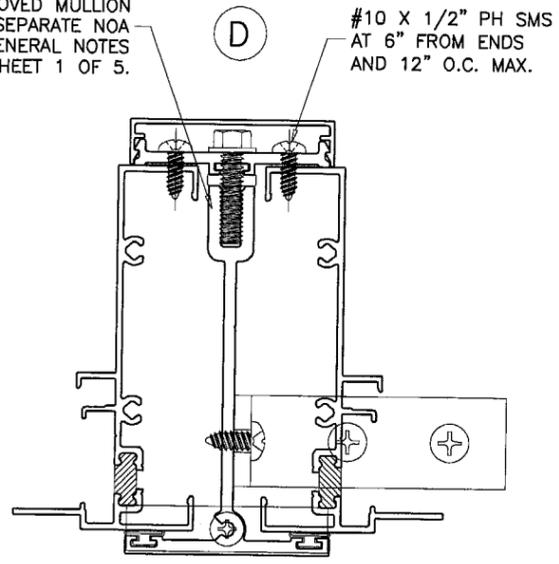
drawing no.
W04-97

sheet 4 of 5



FIXED/FIXED OR FIXED WITH OTHER
 MIAMI-DADE COUNTY APPR'D WINDOWS COMBINATIONS.

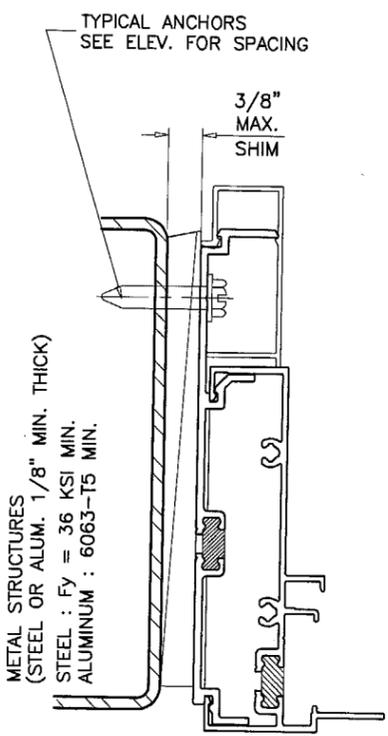
MIAMI-DADE COUNTY APPROVED MULLION UNDER SEPARATE NOA SEE GENERAL NOTES SHEET 1 OF 5.



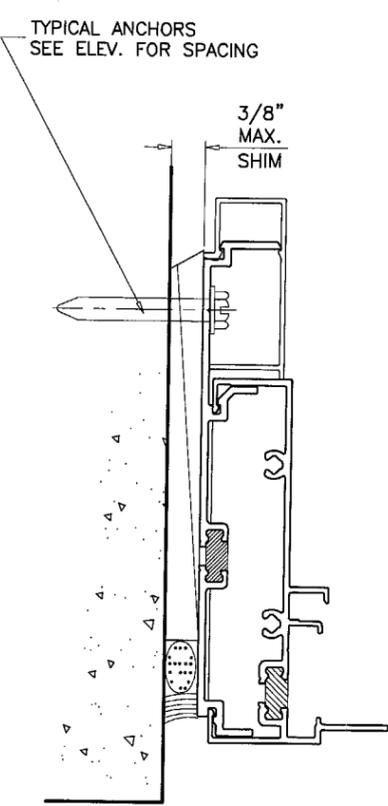
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 Date 06/16/05
 NOA# 05-0301.03
 Miami Dade Product Control
 Division
 By [Signature]

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

[Signature]
 MAY 16 2005

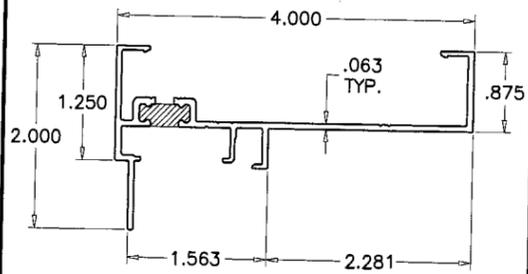


METAL STRUCTURES
 (STEEL OR ALUM. 1/8\"/>

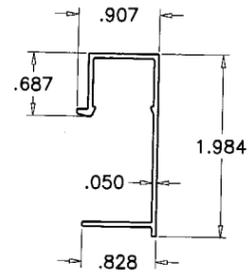


TYPICAL ANCHORS
 SEE ELEV. FOR SPACING

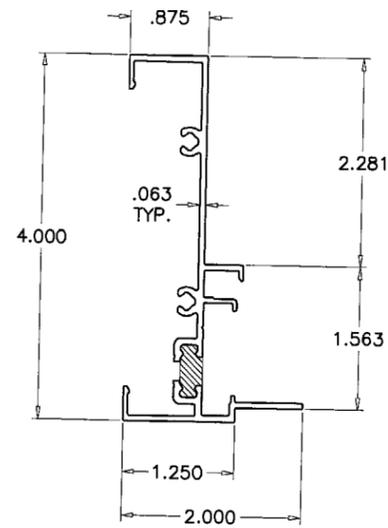
3/8\"/>
 SHIM



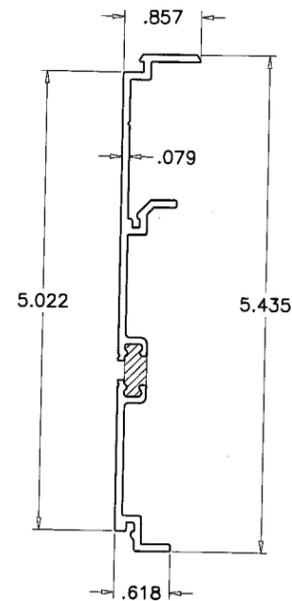
① FRAME HEAD/SILL



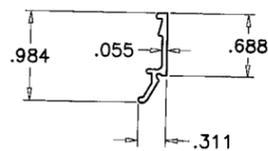
⑦ STRAP ANCHOR COVER



④ FRAME JAMB

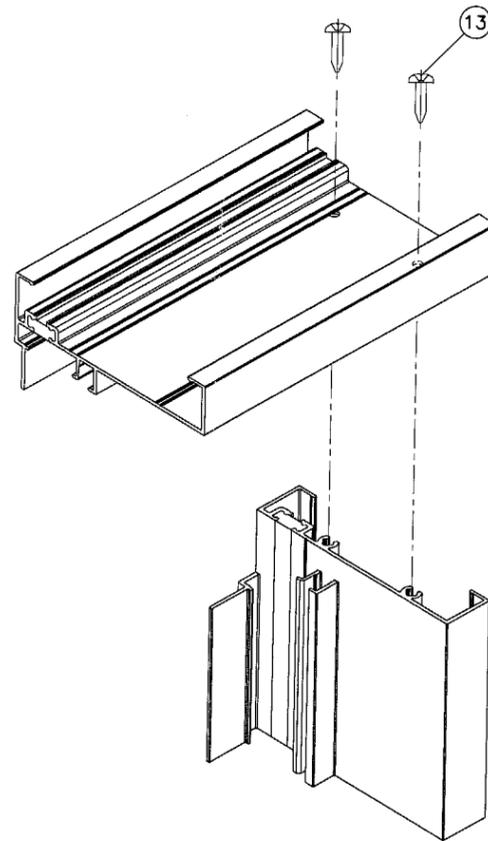


⑥ STRAP ANCHOR



② GLASS STOP

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	BE9-4701	2	FRAME HEAD/SILL	6063-T5	-
2	E9-4610	4	GLASS STOP	6063-T5	-
3	-	-	-	-	-
4	BE9-4714	2	FRAME JAMB	6063-T5	-
5	E2-0617	AS REQD.	WEDGE GASKET	EPDM	-
6	BE9-8567	AS REQD.	STRAP ANCHOR	6063-T5	-
7	E9-8431	AS REQD.	STRAP ANCHOR COVER	6063-T5	-
8	E3-1111	-	-	-	-
9	E3-1127	1	WEEP HOLE COVER	NYLON	AT CENTERLINE OF SILL
10	E2-0670	AS REQD.	BACKER TAPE FOR 1/8" F.C.	POLYURETHANE	-
10A	E2-0648	AS REQD.	1/8" EXTERIOR GASKET	EPDM SPONGE	-
12	E2-0662	AS REQD.	SETTING BLOCK	EPDM	-
13	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	PH SMS



FRAME CORNER

Approved as complying with the
Florida Building Code
Date 05/10/05
NOAR 05-0301.05
Miami Dade Product Control
Division
By [Signature]

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
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no	date	description	by
A	05.10.05	NO CHANGE THIS SHEET	

date: 11-19-04
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W04-97

sheet 5 of 5