



**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)

**K.D Windows, Inc.
3705 Shares Place
Riviera Beach, FL 33404**

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: Aluminum Single Hung Window-Impact

APPROVAL DOCUMENT: Drawing No. **W96-21**, titled "Aluminum Single Hung Window (L.M. Impact)", sheets 1 through 5 of 5, prepared by Al Farooq Corporation, dated 6/25/96 with revision on 2/1/03, 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 **renews and revises** NOA # **01-0711.03** and, consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime Eisen, P.E.**



**NOA No 02-1223.01
Expiration Date: January 9, 2008
Approval Date: March 06, 2003
Page 1**

K.D Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W96-21**, titled "Aluminum Single Hung Window (L.M. Impact)", sheets 1 through 5 of 5, prepared by Al Farooq Corporation, dated 6/25/96 with revision on 2/1/03, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

Submitted under NOA#01-0711.03

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of a 37" wide x 63" high and 53-1/8" wide x 63" high aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. report No. HETI-95-1050, dated May 01, 1996, signed and sealed by Hector M. Medina, 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 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of a 53-1/8" wide x 63" high aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. report No. HETI-96-1077 dated November 08, 1996, signed and sealed by Hector M. Medina, P.E.
3. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a 53-1/8" wide x 63" high aluminum single hung window, prepared by American Test Lab of South Florida report No. ATL-0721.01-95 dated 7/21/95, signed and sealed by Jose D. Mitrani, P.E.

C. CALCULATIONS

Submitted under NOA#01-0711.03

1. Comparative Analysis and anchor calculations prepared by Al-Farooq Corporation, dated 11/29/96 and 5/5/98, signed and sealed by Humayoun Farooq, P.E.



Jaime Eisen, P.E.
Product Control Examiner
NOA No 02-1223.01
Expiration Date: January 9, 2008
Approval Date: March 06, 2003

K.D Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

D. MATERIAL CERTIFICATIONS

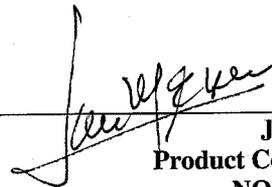
1. None

E. STATEMENTS

1. None

F. OTHER

1. Notice of Acceptance No. **01-0711.03**, K.D Windows, Inc. for their, "Aluminum Single Hung Window Impact/Non Impact", approved on 10/18/01 and expiring on 1/9/03.



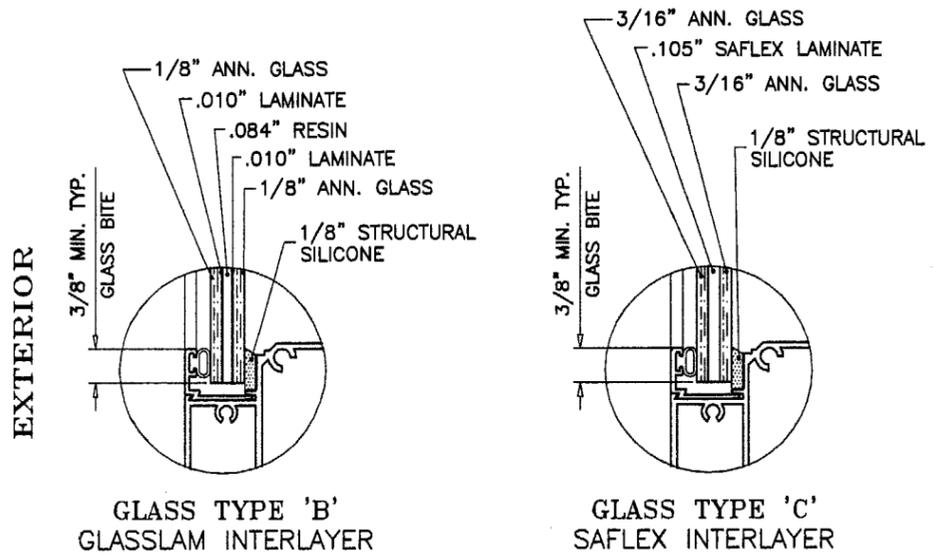
Jaime Eisen, P.E.
Product Control Examiner
NOA No 02-1223.01

Expiration Date: January 9, 2008
Approval Date: March 06, 2003

**EXTERIOR GLAZED WINDOWS
DESIGN LOAD CAPACITY - PSF**

WINDOW DIMS.		GLASS TYPE 'B'				GLASS TYPE 'C'			
		3/16" TAPCONS		1/4" TAPCONS		3/16" TAPCONS		1/4" TAPCONS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26" (3)	61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
26-1/2"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
37"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
53-1/8"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
19-1/8"	38-3/8" (3)	61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
26-1/2"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
37"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
53-1/8"		61.3	56.4	61.3	76.0	61.3	56.4	61.3	76.0
19-1/8"	50-5/8" (4)	61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
26-1/2"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
37"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
53-1/8"		61.3	57.0	61.3	73.7	61.3	57.0	61.3	76.0
19-1/8"	58" (5)	61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
26-1/2"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
37"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
53-1/8"		60.2	60.2	60.2	60.2	61.3	62.2	61.3	76.0
19-1/8"	63" (6)	61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
26-1/2"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
37"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
53-1/8"		55.0	55.0	55.0	55.0	60.0	68.7	60.0	75.3
19-1/8"	74-1/4" (6)	61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
26-1/2"		61.3	76.0	61.3	76.0	61.3	76.0	61.3	76.0
37"		61.3	67.6	61.3	67.6	61.3	76.0	61.3	76.0

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



GLAZING DETAILS

NOTES:

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.

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538
FEB 07 2003

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No **02-1223.01**
Expiration Date **01/09/08**
By *[Signature]*
Division **Product Control**

α f c

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W96-21AW

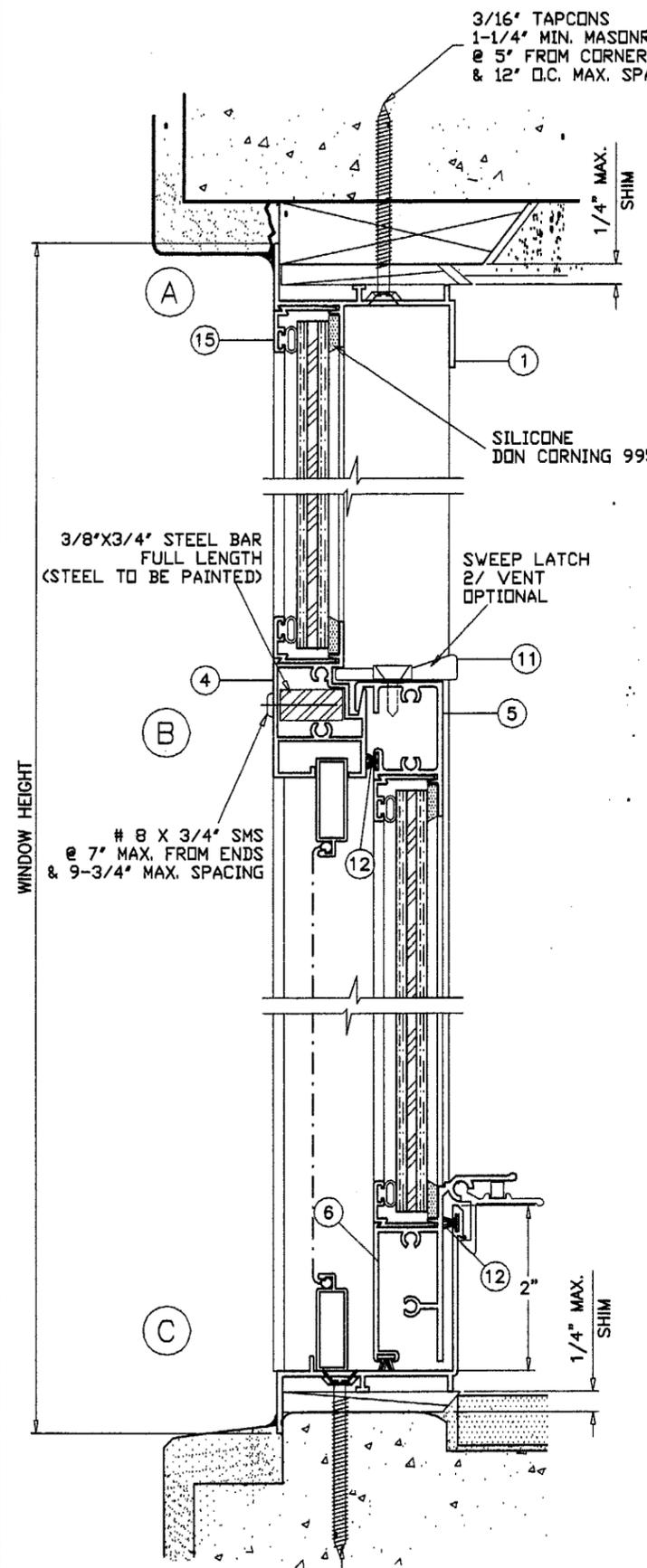
ALUMINUM SINGLE HUNG WINDOW (L.M. IMPACT)

KD Windows
KD WINDOWS
3705 SHARES PLACE
RIVIERA BEACH, FL. 33404
TEL.(561) 845-1401 FAX(-) -

no	date	by	description
B	01.25.98	H	GENERAL REVISION
C	03.09.98	H	1/4" ANCHORS ADDED
D	05.05.98	H	GENERAL REVISION
E	06.06.01		CO. NAME CHANGED
F	02.01.03		NON IMPACT WDW. REMOVED

date: 08-25-96
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no. **W96-21**
sheet 1 of 5



EXTERIOR GLAZED WINDOW
SHUTTERS NOT REQUIRED

TYPICAL JAMB ANCHORS:

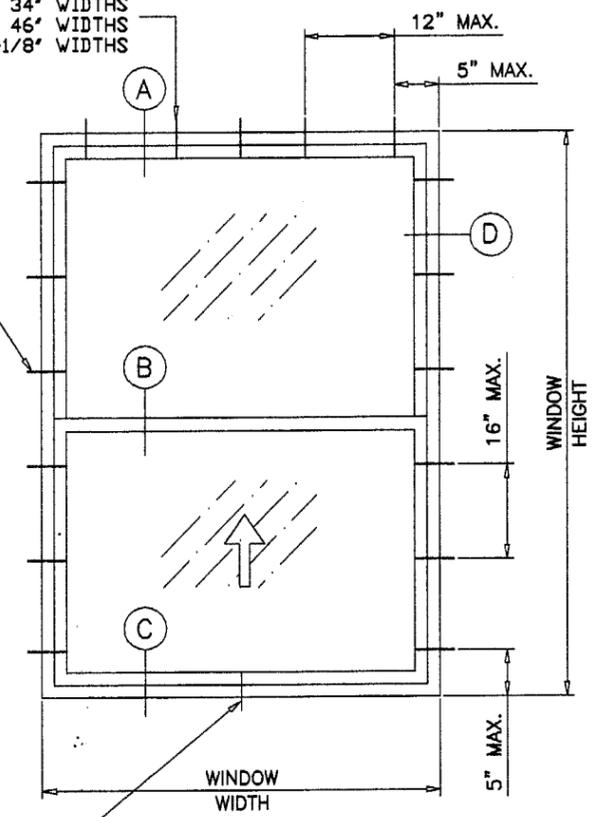
- 3/16" TAPCONS:**
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-3/8" MIN. PENETRATION INTO WOOD
 THRU 1BY WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
 1-1/4" MIN. EMBED INTO MASONRY
- 1/4" TAPCONS:**
 THRU WOOD BUCKS INTO MASONRY
 1-1/4" MIN. EMBED INTO MASONRY

3/16" X 2-1/4" TAPCONS
 (1) @ CENTER OF SILL
 ALL WIDTHS

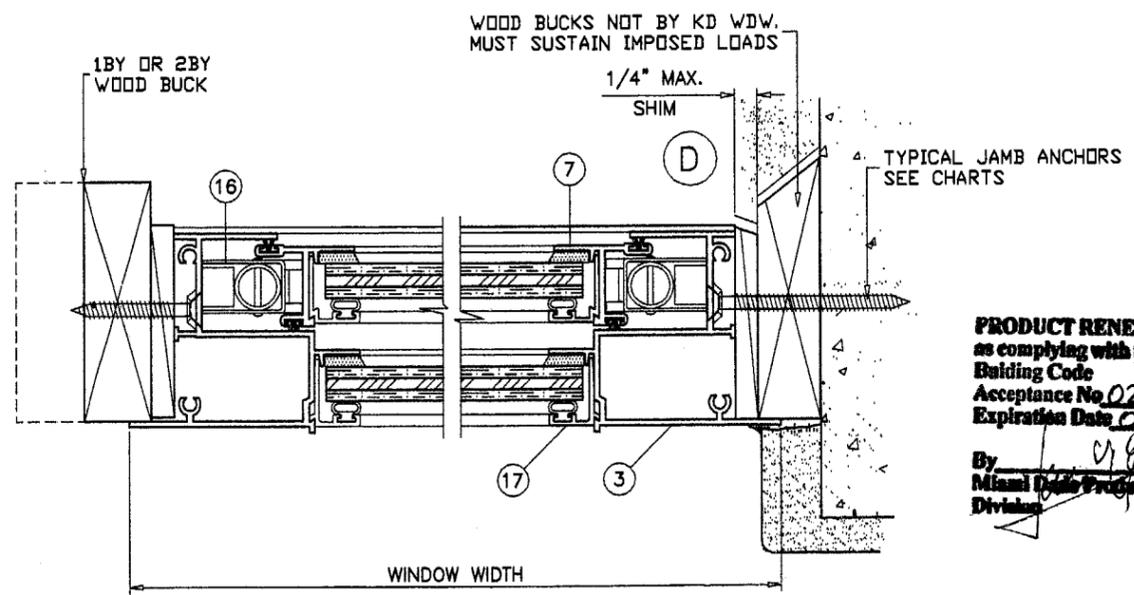
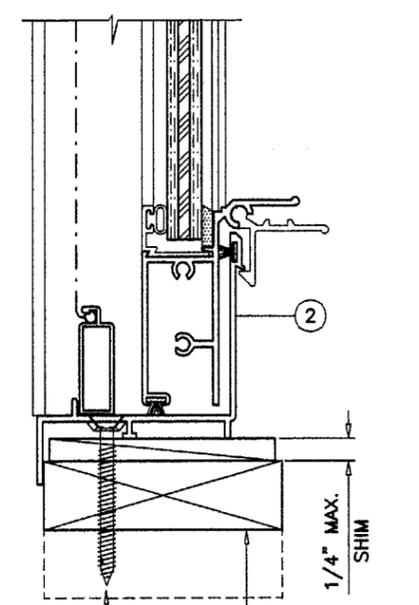
3/16" TAPCON
 1-3/8" MIN. WOOD EMBED
 (1) @ CENTER OF SILL
 ALL WIDTHS

1 BY OR 2 BY
 WOOD BUCK

- 2 ANCHORS UPTO 22' WIDTHS
 3 ANCHORS > 22' TO 34' WIDTHS
 4 ANCHORS > 34' TO 46' WIDTHS
 5 ANCHORS > 46' TO 53-1/8' WIDTHS



TYPICAL ELEVATION
 ANCHOR AT CENTR
 REQD. FOR ALL WIDTHS



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 02-1223.01
 Expiration Date 01/09/08

By *[Signature]*
 Miami-Dade Product Control
 Division

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

FEB 07 2003

afc

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
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 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W96-21AW

ALUMINUM SINGLE HUNG WINDOW (L.M. IMPACT)

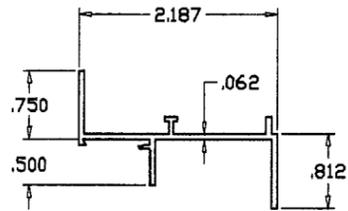
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no	date	by	description

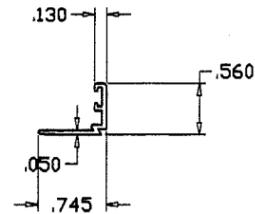
date: 06-25-96
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W96-21

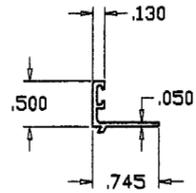
sheet 2 of 5



FRAME HEAD
6063-T5



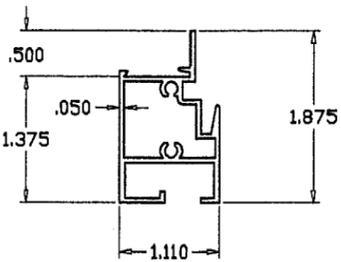
GLAZING ADAPTER
6063-T5



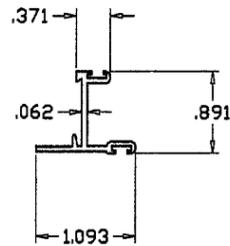
GLAZING ADAPTER FR. JAMB
6063-T5

SECTION DETAILS FOR
WINDOWS GLAZED WITH
GLASS TYPES 'B' & 'C'

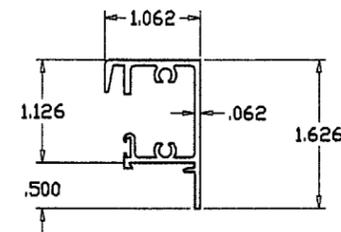
OUTSIDE GLAZED WINDOW				
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	AW-359	1	FRAME HEAD	6063-T5
2	AW-361	1	FRAME SILL	6063-T5
3	AW-353	2	FRAME JAMB	6063-T5
4	AW-357	1	MEETING RAIL	6063-T6
5	AW-356	1	SASH TOP RAIL	6063-T6
6	AW-360	1	SASH BOTTOM RAIL	6063-T5
7	AW-355	2	SASH SIDE RAIL	6063-T6
8	-	-	-	-
9	-	14	ASSEMBLY SCREWS	# 8 X 1" P.H. PHILIPS CRS
10	-	4	FACE GUIDES	2/ SASH SIDE RAIL
11	-	AS REQD.	SASH LATCH	MOLDED PLASTIC + SPRING
12	-	AS REQD.	FIN SEAL PILE	-
13	-	-	-	-
14	-	-	-	-
15	AW-372	AS REQD.	GLAZING ADAPTER	6063-T5
16	-	2	BLOCK & TACKLE BALANCE	5/8" BOX
17	AW-371	AS REQD.	GLAZING ADAPTER FR. JAMB	6063-T5



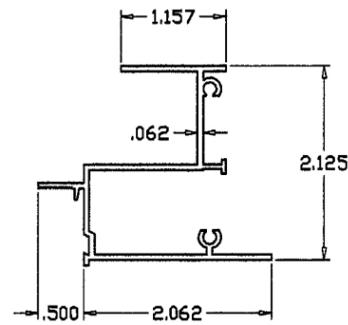
FIXED RAIL
6063-T6



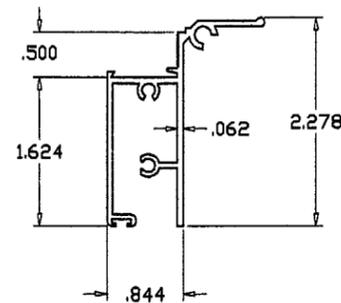
VENT JAMB
6063-T6



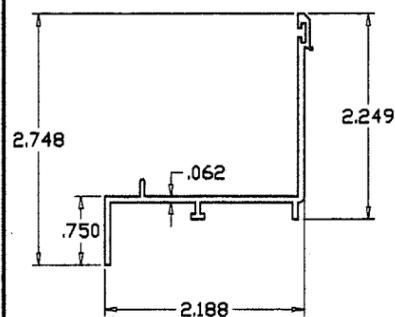
VENT TOP RAIL
6063-T6



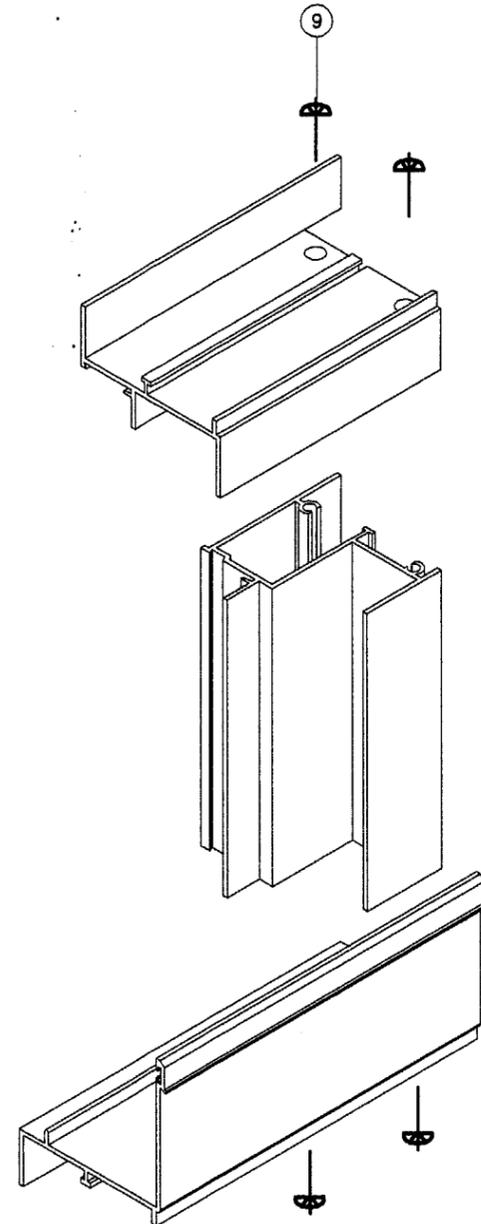
FRAME JAMB
6063-T5



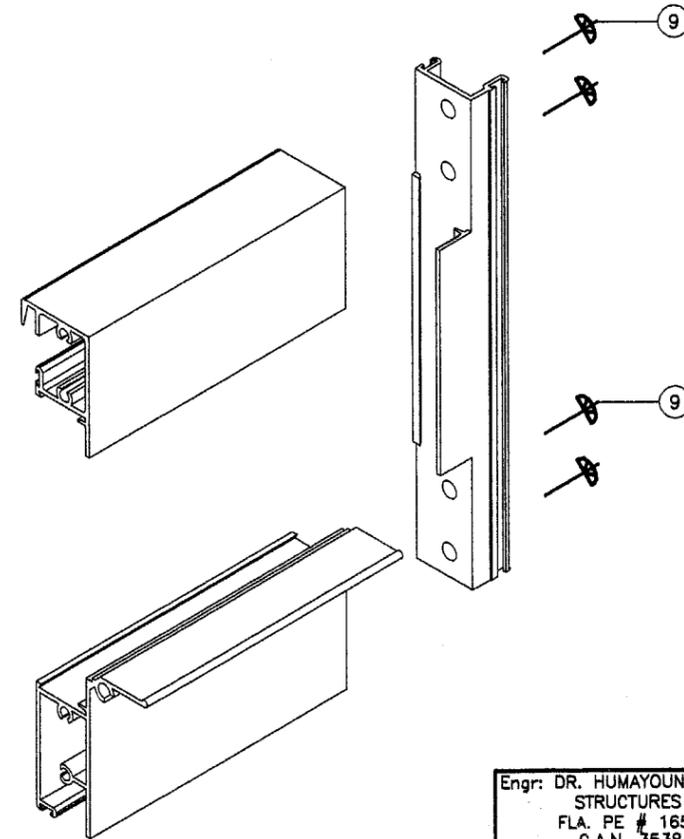
VENT BOTTOM RAIL
6063-T5



FRAME SILL
6063-T5



FRAME CORNER ASSEMBLY



VENT CORNER ASSEMBLY

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

FEB 07 2003

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 02-1223.01
Expiration Date 01/09/08

By *[Signature]*
Miami Design Product Control
Division

ALUMINUM SINGLE HUNG WINDOW (L.M. IMPACT)

KD WINDOWS
3705 SHARES PLACE
RIVIERA BEACH, FL. 33404
TEL(561) 845-1401 FAX(-) -

KD
Windows

revisions:
no date by description

date: 06-25-96
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.

W96-21

sheet 3 of 5

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\W96-21AW

3/16" TAPCONS
1-1/4" MIN. MASONRY EMBED
@ 5-1/2" FROM CORNERS MAX.
& 10-1/2" D.C. MAX. SPACING

2 ANCHORS UP TO 22' WIDTHS
3 ANCHORS > 22' TO 34' WIDTHS
4 ANCHORS > 34' TO 46' WIDTHS
5 ANCHORS > 46' TO 53-1/8' WIDTHS

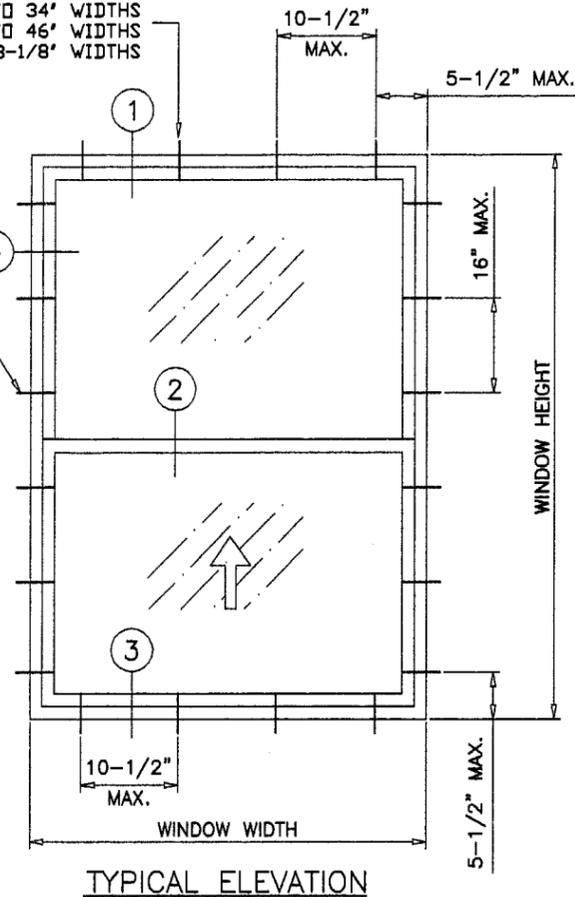
EXTERIOR GLAZED WINDOW
SHUTTERS NOT REQUIRED

TYPICAL JAMB ANCHORS:

3/16" TAPCONS:
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-3/8" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
1-1/4" MIN. EMBED INTO MASONRY

1/4" TAPCONS:
THRU WOOD BUCKS INTO MASONRY
1-1/4" MIN. EMBED INTO MASONRY

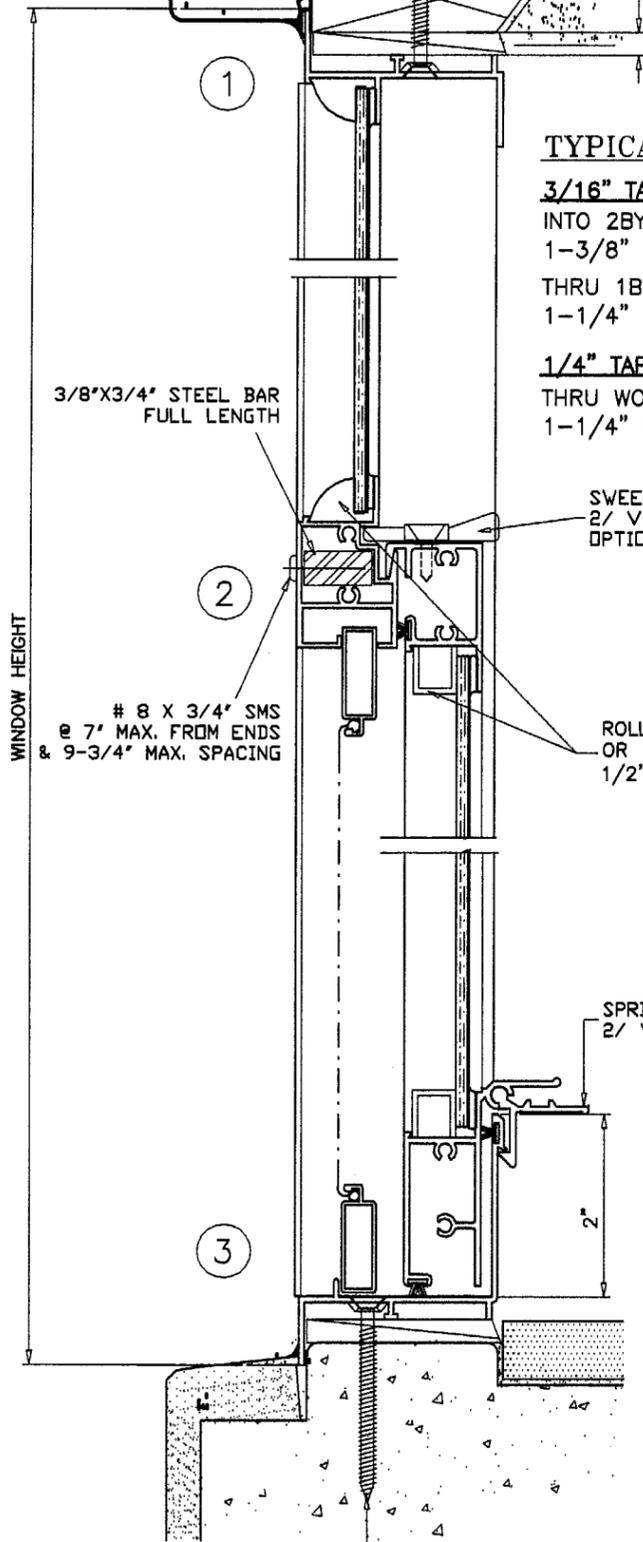
SEE CHART AT RIGHT
FOR NUMBER AND SIZE OF
ANCHORS PER JAMB



TYPICAL ELEVATION

EXTERIOR GLAZED WINDOWS DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'A'			
		3/16" TAPCONS		1/4" TAPCONS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	50.0	70.0	50.0	70.0
26-1/2"		50.0	70.0	50.0	70.0
37"		50.0	70.0	50.0	70.0
53-1/8"	38-3/8"	50.0	70.0	50.0	70.0
19-1/8"		50.0	70.0	50.0	70.0
26-1/2"		50.0	70.0	50.0	70.0
37"	50-5/8"	50.0	70.0	50.0	70.0
53-1/8"		50.0	56.4	50.0	70.0
19-1/8"		50.0	70.0	50.0	70.0
26-1/2"	58"	50.0	70.0	50.0	70.0
37"		50.0	70.0	50.0	70.0
53-1/8"		50.0	57.0	50.0	63.6
19-1/8"	63"	50.0	70.0	50.0	70.0
26-1/2"		50.0	70.0	50.0	70.0
37"		50.0	70.0	50.0	70.0
53-1/8"	74-1/4"	50.0	51.0	50.0	51.0
19-1/8"		50.0	70.0	50.0	70.0
26-1/2"		50.0	70.0	50.0	70.0
37"	(6)	50.0	66.8	50.0	66.8

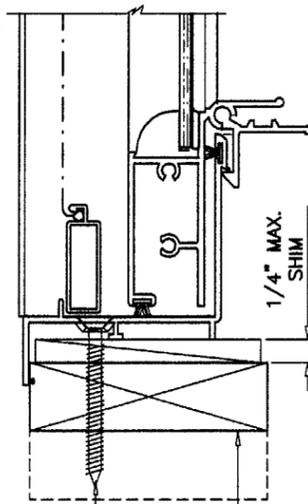
* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



SWEEP LATCH
2/ VENT
OPTIONAL

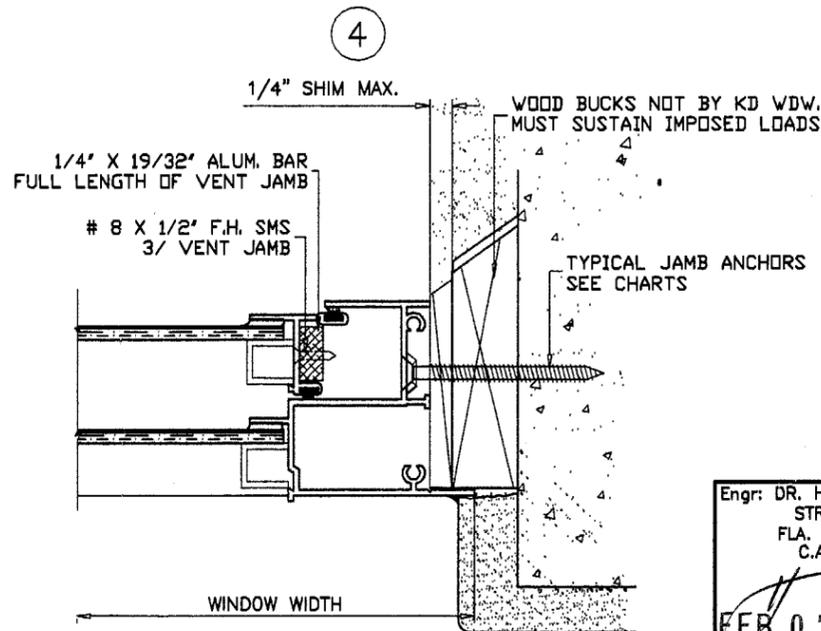
ROLL FORMED ALUM GLAZING BEAD
OR
1/2" X 1/2" X 1/16" ALUM CHANNEL

SPRING LOADED LATCH
2/ VENT



3/16" TAPCONS
1-3/8" MIN. WOOD EMBED
@ 5-1/2" FROM CORNERS
& 10-1/2" MAX. SPACING

1 BY OR 2 BY
WOOD BUCK



ROLL FORMED ALUM GLAZING BEAD
OR
1/2" X 1/2" X 1/16" ALUM CHANNEL

3/16" ANN. GLASS
DUPONT R-454 FILM
1/8" STRUCTURAL SILICONE

EXTERIOR

GLASS TYPE 'A'
GLAZING DETAIL

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

FEB 07 2003

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 02-1223.01
Expiration Date 01/09/08

By *[Signature]*
Miami Date Product Control
Division

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL/W96-21AW

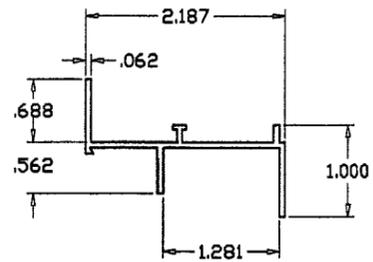
ALUMINUM SINGLE HUNG WINDOW (L.M. IMPACT)
KD Windows
KD WINDOWS
3705 SHARES PLACE
RIVIERA BEACH, FL 33404
TEL.(561) 845-1401 FAX(-) -

no	date	description

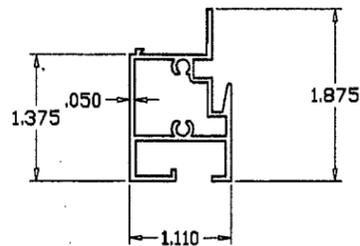
date: 06-25-96
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W96-21
sheet 4 of 5

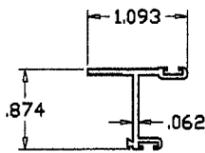
SECTION DETAILS FOR
WINDOWS GLAZED WITH
GLASS TYPE 'A'



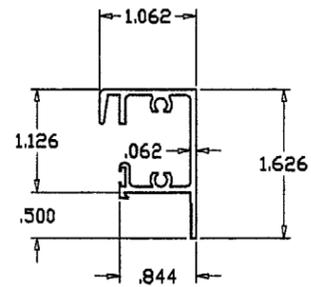
FRAME HEAD
6063-T6



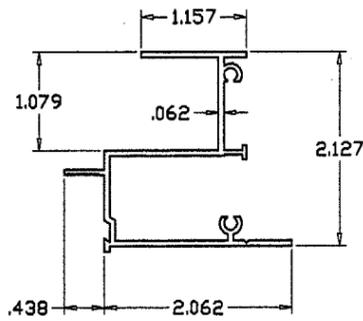
FIXED RAIL
6063-T6



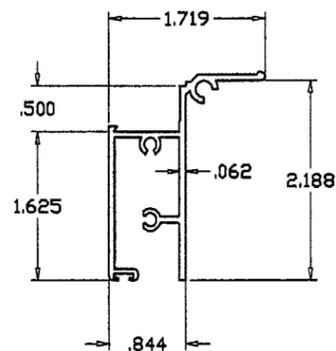
VENT JAMB
6063-T5



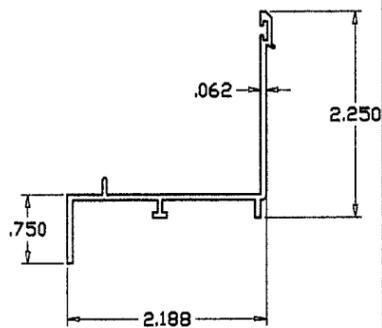
VENT TOP RAIL
6063-T6



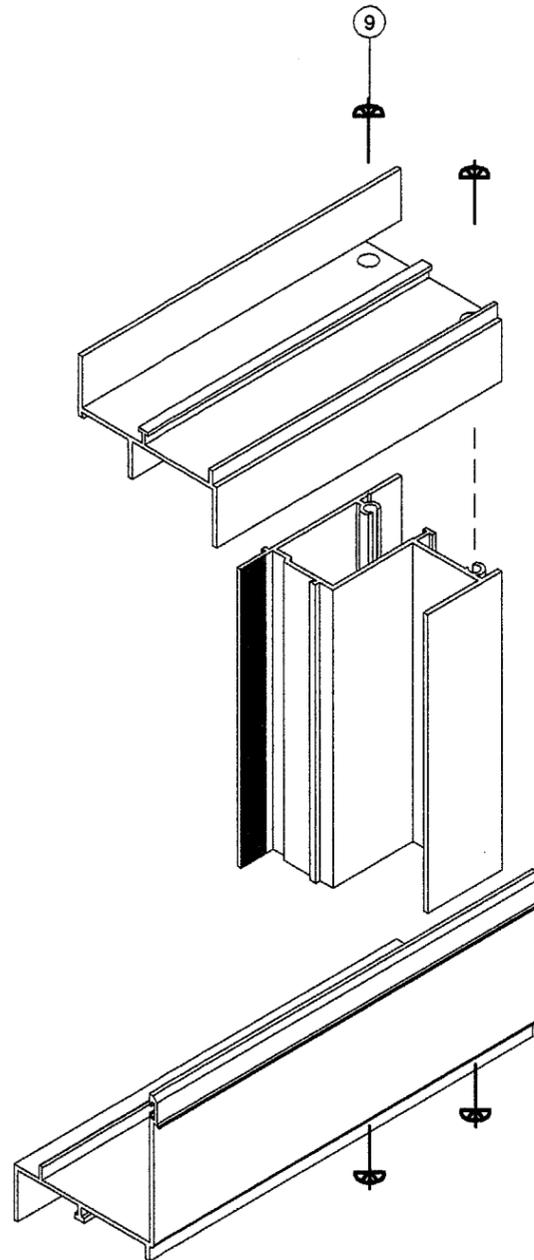
FRAME JAMB
6063-T5



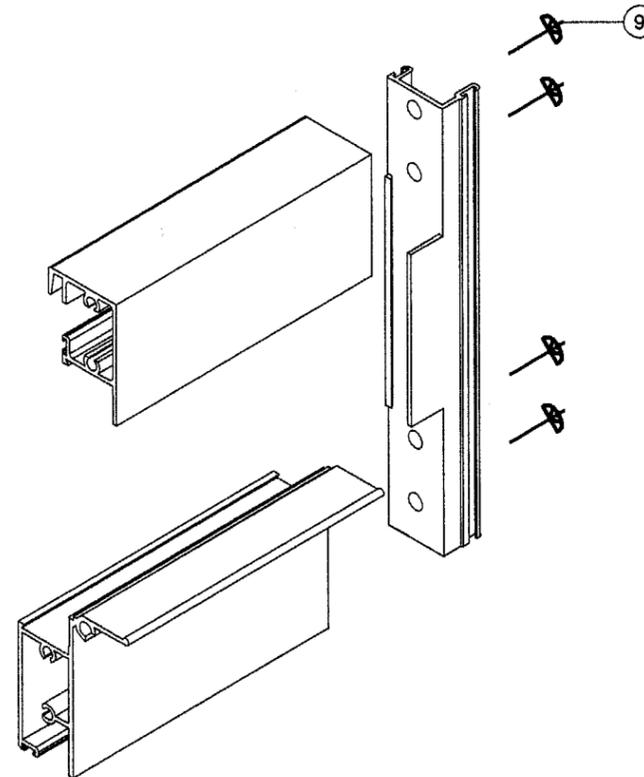
VENT BOTTOM RAIL
6063-T5



FRAME SILL
6063-T5



FRAME CORNER ASSEMBLY



VENT CORNER ASSEMBLY

OUTSIDE GLAZED WINDOW				
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS
1	-	1	FRAME HEAD	6063-T5
2	-	1	FRAME SILL	6063-T5
3	-	2	FRAME JAMB	6063-T5
4	-	1	MEETING RAIL	6063-T6
5	-	1	SASH TOP RAIL	6063-T6
6	-	1	SASH BOTTOM RAIL	6063-T5
7	-	2	SASH SIDE RAIL	6063-T5
8	-	-	-	-
9	-	14	ASSEMBLY SCREWS	# 8 X 1" P.H. PHILIPS CRS
10	-	4	FACE GUIDES	2/ SASH SIDE RAIL
11	-	AS REQD.	SASH LATCH	MOLDED PLASTIC + SPRING
12	-	AS REQD.	FIN SEAL PILE	-
13	-	-	-	-
14	-	-	-	-
15	-	AS REQD.	ALUM GLAZING BEAD	ROLL FORMED ALUM.
16	-	2	BLOCK & TACKLE BALANCE	5/8" BOX
17	-	-	-	-

af
sc

AL-FAROQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W96-21AW

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revisions:	no	date	by	description

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538
FEB 07 2003

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 02-1223.01
Expiration Date 01/09/08

By [Signature]
Miami Dade Product Control
Division

date: 06-25-96
scale: 1/2" = 1"
dr. by: HAMID
chk. by:
drawing no.
W96-21
sheet 5 of 5