



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

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

Your application for Notice of Acceptance (NOA) of:

Series 360 Aluminum Fixed Window - Impact Resistant

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0110.02
EXPIRES: 10/25/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 10/25/2001

KD Windows, Inc.

ACCEPTANCE No.: 01-0110.02

APPROVED: OCT 25 2001

EXPIRES: OCT 25 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves aluminum fixed window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The **Series 360 Aluminum Fixed Window – Large Missile Impact Resistant** and its components shall be constructed in strict compliance with the following documents: Drawing No **W99-70**, Sheets 1 through 3 of 3, titled "Series-360 Alum. Fixed Window," prepared by Al Farooq Corporation, dated 9/22/99, with revision A dated 06/06/01, 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 This approval applies to single unit applications only, as shown in approved drawings.
3.2 For Design Pressure Rating vs. Window Size, see Comparative Analysis Tables in approved drawings.

4. INSTALLATION

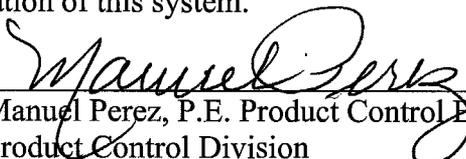
- 4.1 The aluminum fixed window and its components shall be installed in strict compliance with the approved drawings.
4.2 Hurricane protection system (shutters): the installation of this unit **will not require** a hurricane protection system.

5. LABELING

- 5.1 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance
6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

KD Windows, Inc.

ACCEPTANCE No.: 01-0110.02

APPROVED: OCT 25 2001

EXPIRES: OCT 25 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process;
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance number preceded by the words Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The engineer does not need to reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Acceptance contains pages 1, 2, and this last page 3.

END OF THIS ACCEPTANCE


Manuel Perez, P. E., Product Control Examiner
Product Control Division

KD Windows, Inc.

ACCEPTANCE No.: 01-0110.02

APPROVED: OCT 25 2001

EXPIRES: OCT 25 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

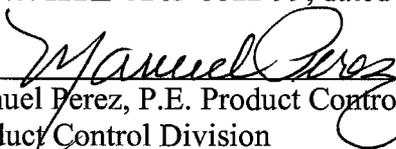
(For File ONLY. Not part of NOA.)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W99-70**, Sheets 1 through 3 of 3, titled "Series-360 Alum. Fixed Window," prepared by Al Farooq Corporation, dated 9/22/99, with revision A dated 06/06/01, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Large Missile Impact Test per SFBC, PA 201-94
2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of a 96" wide by 48" high series 360 aluminum fixed windows glazed with 3/8" annealed laminated glass by Glasslam, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0145-0113-98**, dated 01/28/98, signed and sealed by Timothy S. Marshall, P.E.
2. Test reports on 1) Large Missile Impact Test per SFBC, PA 201-94
2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of a 60" wide by 36" high series 360 aluminum fixed windows glazed with 3/8" annealed laminated glass by Saflex, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0145-0606-98**, dated 06/25/98, signed and sealed by Timothy S. Marshall, P.E.
3. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
along with marked-up drawings and installation diagram of a 96" wide by 48" high series 360 aluminum fixed windows glazed with 3/8" HS laminated glass, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0145-0611-99**, dated 6/18/99, signed and sealed by Vinu Abraham, P.E.
4. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
along with marked-up drawings and installation diagram of specimen #1 a 36" wide by 36" high series aluminum fixed windows glazed with 1/8" annealed glass, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0145-0812-99**, dated 8/17/98, signed and sealed by Timothy S. Marshall, P.E.
5. Test reports on 1) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
along with marked-up drawings and installation diagram of specimen #2 a 50 5/8" wide by 53 1/8" high series aluminum fixed windows glazed with 3/16" annealed glass, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0145-0812-99**, dated 8/17/98, signed and sealed by Timothy S. Marshall, P.E.


Manuel Perez, P.E. Product Control Examiner
Product Control Division

KD Windows, Inc.

ACCEPTANCE No.: 01-0110.02

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(For File ONLY. Not part of NOA.)

6. Test reports on 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
along with marked-up drawings and installation diagram of specimen #3 a 96" wide by 48" high series aluminum fixed windows glazed with 1/4" annealed glass, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0145-0812-99**, dated 8/18/98, signed and sealed by Timothy S. Marshall, P.E.
7. Test reports on 1) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94 along with marked-up drawings and installation diagram of specimen #4 a 96" wide by 48" high series aluminum fixed windows glazed with 1/4" annealed glass, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0145-0812-99**, dated 8/19/98, signed and sealed by Timothy S. Marshall, P.E.
8. Clarification letter dated September 27, 2001 specifying location of gages regarding test reports 0145-0611-99, 0145-0812-98, 0145-0608-00 and 0145-0113-98 and 0145-0606-98 signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

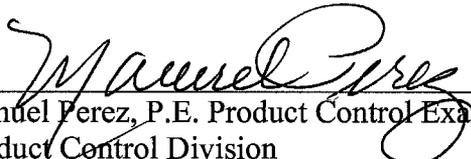
1. Comparative Analysis and Anchor Calculations, prepared by Al Farooq Corporation, dated 9/7/99, signed and sealed by Dr. Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

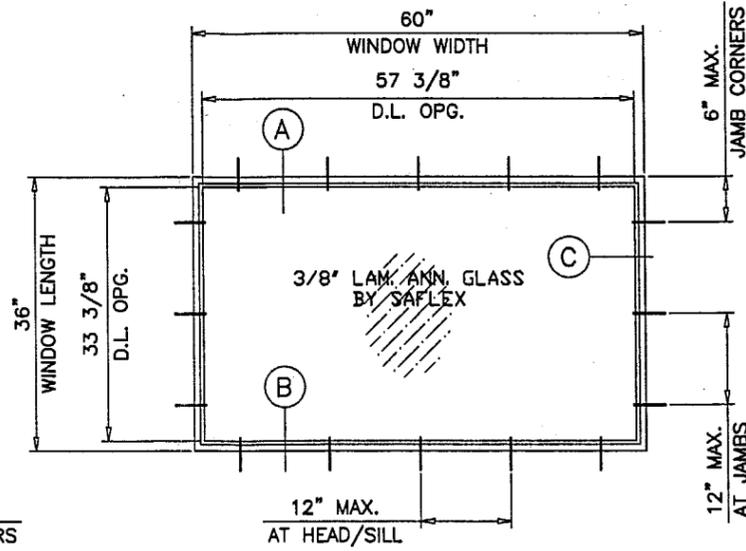
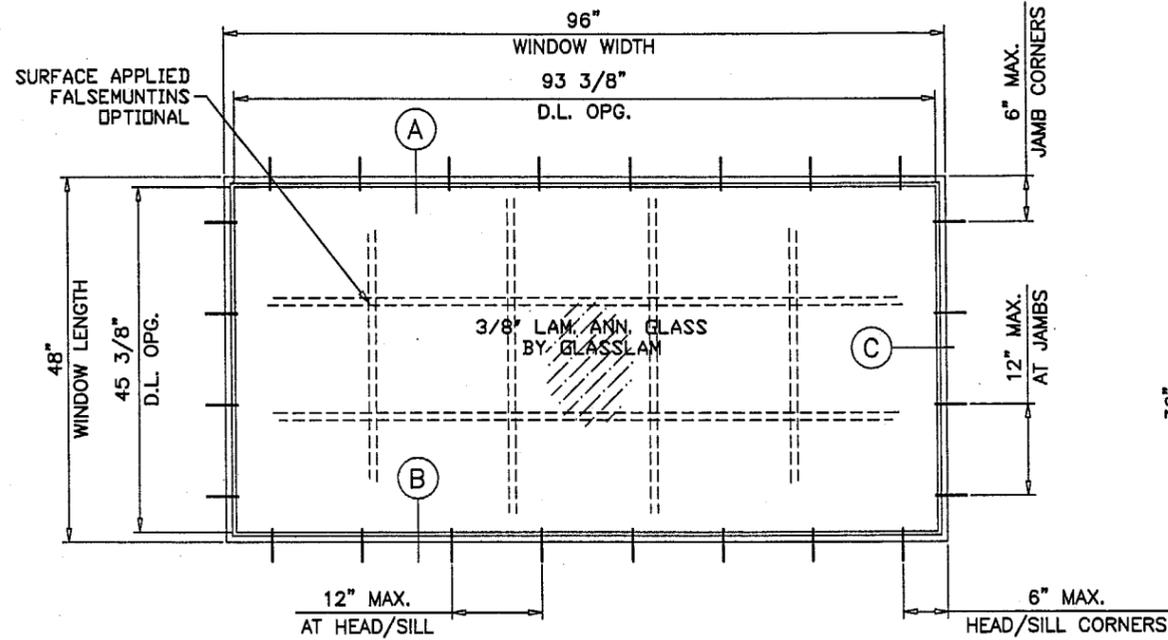
1. Notice of Acceptance No. **97-1224.07** issued to Solutia, Inc. for "Polyvinyl Butyral Interlayer Saflex" dated 06/25/98, expiring on 01/09/00.
2. Notice of Acceptance No. **00-0524.06** issued to Nebula Glass International Inc. for "Glasslam Safety-Plus Laminated Glass" dated 06/25/98, expiring on 01/09/00.

E. STATEMENTS

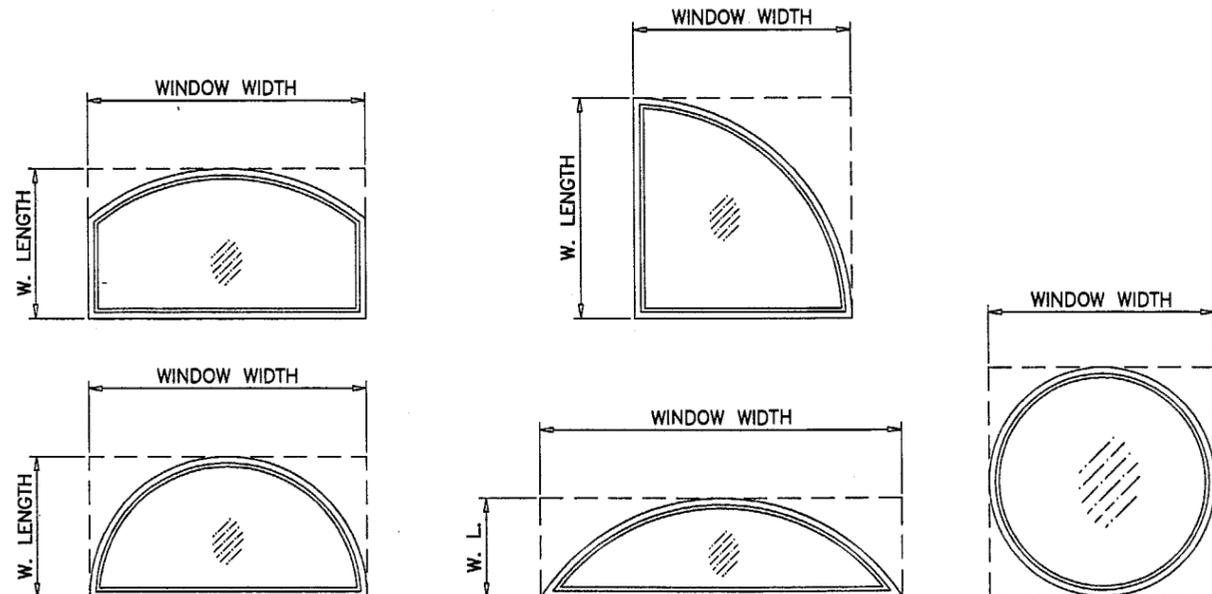
1. Statement letter of no financial interest, dated 10/22/99, signed and sealed by Dr. Humayoun Farooq, P.E.
2. Statement letter of Code Compliance issued by Al Farooq Corporation on 10/22/99, signed and sealed by Dr. Humayoun Farooq, P.E.



Manuel Perez, P.E. Product Control Examiner
Product Control Division



TYPICAL ELEVATIONS
TESTED UNITS



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

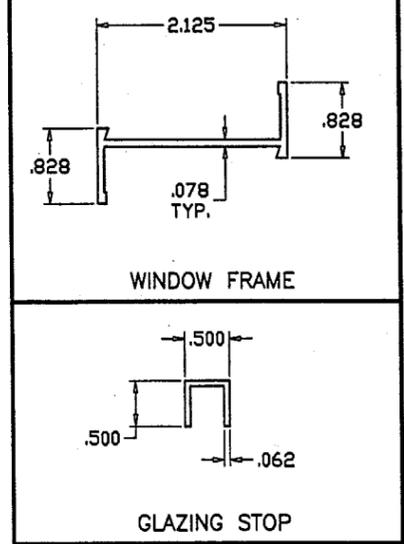
LARGE MISSILE IMPACT RESISTANT WINDOWS
SHUTTERS NOT REQUIRED

NOTES:

1. THIS STRUCTURE IS DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR DADE COUNTY, ALSO FOR WIND LOADS AS PER ASCE 7-88 USING CORRESPONDING LOADS.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
JUN 08 2001

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE OCT 25 2001
BY *Maumun*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0110-02



AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W99-70AW

SERIES-360 ALUM. FIXED WINDOW
KD WINDOWS
3705 SHARES PLACE
RIVIERA BEACH, FL. 33404
TEL(561) 845-1401 FAX(-) -

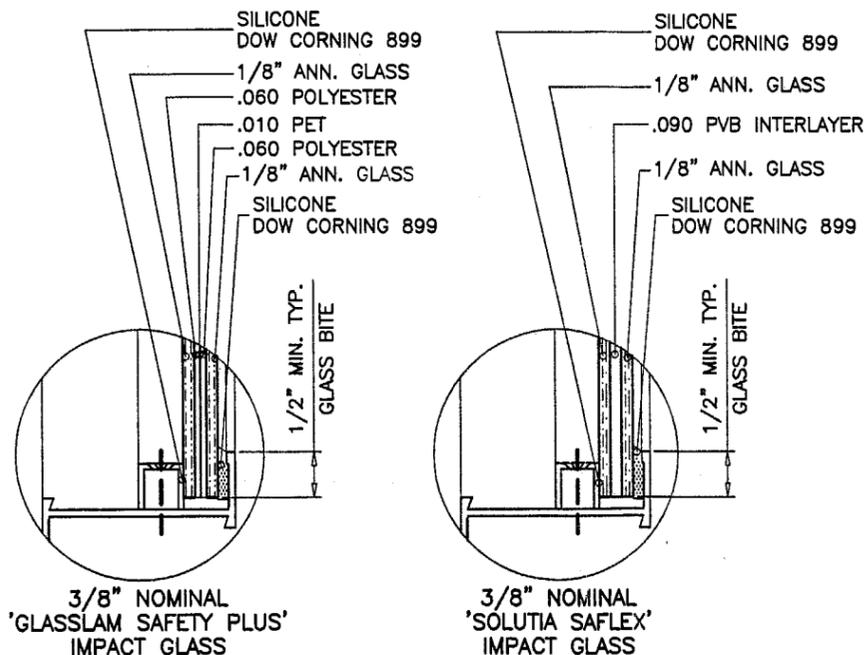
no	date	description
A	06.06.01	CO. NAME CHANGED

date: 09-22-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

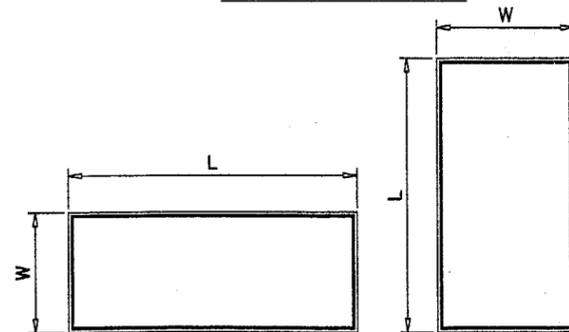
drawing no.
W99-70
sheet 1 of 3

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		3/8" NOMINAL GLASS GALSSLAM SAFETY PLUS		3/8" NOMINAL GLASS SOLUTIA SAFLEX	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24"	24"	55.0	55.0	80.0	90.0
30"		55.0	55.0	80.0	90.0
36"		55.0	55.0	80.0	90.0
42"		55.0	55.0	80.0	90.0
48"		55.0	55.0	80.0	90.0
54"		55.0	55.0	80.0	90.0
60"	55.0	55.0	80.0	90.0	
24"	36"	55.0	55.0	80.0	90.0
30"		55.0	55.0	80.0	90.0
36"		53.3	53.3	80.0	90.0
42"		53.3	53.3	80.0	90.0
48"		53.3	53.3	80.0	90.0
54"		53.3	53.3	80.0	90.0
60"	53.3	53.3	80.0	90.0	
24"	48"	55.0	55.0	80.0	90.0
30"		55.0	55.0	80.0	90.0
36"		53.3	53.3	80.0	90.0
42"		53.3	53.3	80.0	90.0
48"		40.0	40.0	-	-
54"		40.0	40.0	-	-
60"	40.0	40.0	-	-	
24"	60"	55.0	55.0	80.0	90.0
30"		55.0	55.0	80.0	90.0
36"		53.3	53.3	80.0	90.0
42"		45.7	45.7	-	-
48"		40.0	40.0	-	-
60"		40.0	40.0	-	-
24"	72"	55.0	55.0	80.0	90.0
30"		55.0	55.0	80.0	90.0
36"		53.3	53.3	-	-
42"		45.7	45.7	-	-
48"		40.0	40.0	-	-
60"		40.0	40.0	-	-
24"	84"	55.0	55.0	80.0	90.0
30"		55.0	55.0	-	-
36"		50.9	50.9	-	-
42"		45.7	45.7	-	-
48"		40.0	40.0	-	-
60"		40.0	40.0	-	-
24"	96"	55.0	55.0	-	-
30"		55.0	55.0	-	-
36"		49.2	49.2	-	-
42"		43.9	43.9	-	-
48"		40.0	40.0	-	-
60"		40.0	40.0	-	-
24"	108"	55.0	55.0	-	-
30"		55.0	55.0	-	-
36"		48.0	48.0	-	-
42"		42.6	42.6	-	-
48"		40.0	40.0	-	-
60"		40.0	40.0	-	-
24"	120"	55.0	55.0	-	-
30"		54.9	54.9	-	-
36"		46.5	46.5	-	-

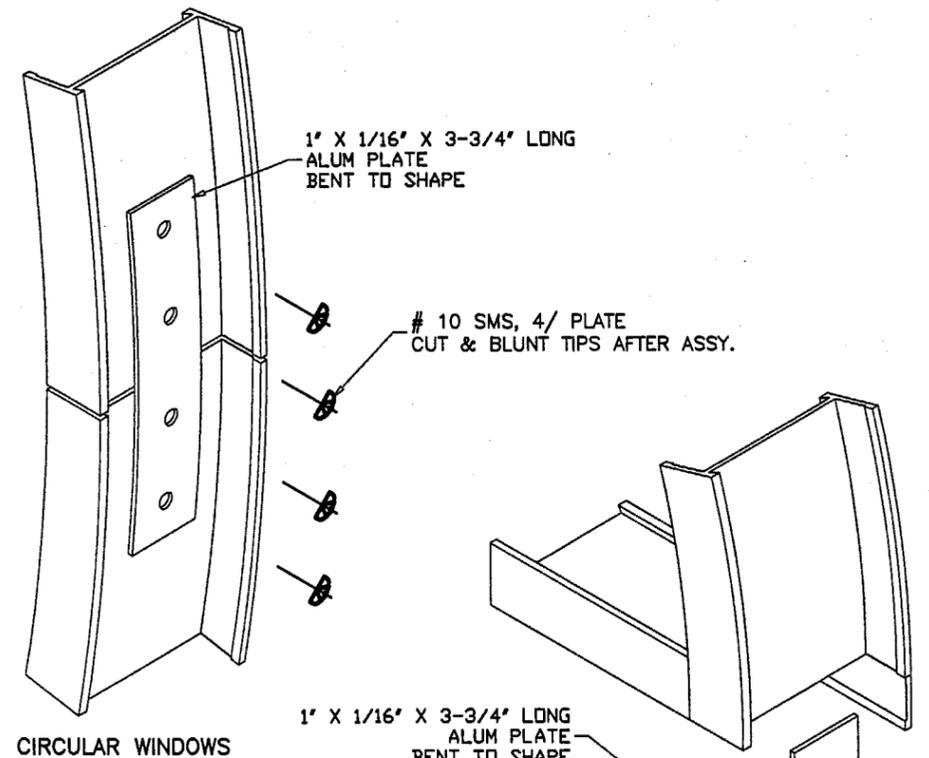
DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		3/8" NOMINAL GLASS GALSSLAM SAFETY PLUS		3/8" NOMINAL GLASS SOLUTIA SAFLEX	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	26"	55.0	55.0	80.0	90.0
26-1/2"		55.0	55.0	80.0	90.0
37"		55.0	55.0	80.0	90.0
53-1/8"		55.0	55.0	80.0	90.0
19-1/8"	38-3/8"	55.0	55.0	80.0	90.0
26-1/2"		55.0	55.0	80.0	90.0
37"		51.9	51.9	80.0	90.0
53-1/8"		50.0	50.0	80.0	90.0
19-1/8"	50-5/8"	55.0	55.0	80.0	90.0
26-1/2"		55.0	55.0	80.0	90.0
37"		51.9	51.9	80.0	90.0
53-1/8"		50.0	50.0	80.0	90.0
19-1/8"	63"	55.0	55.0	80.0	90.0
26-1/2"		55.0	55.0	80.0	90.0
37"		51.9	51.9	-	-
53-1/8"		51.8	51.8	-	-
19-1/8"	74-1/4"	55.0	55.0	80.0	90.0
26-1/2"		55.0	55.0	80.0	90.0
37"		51.8	51.8	-	-



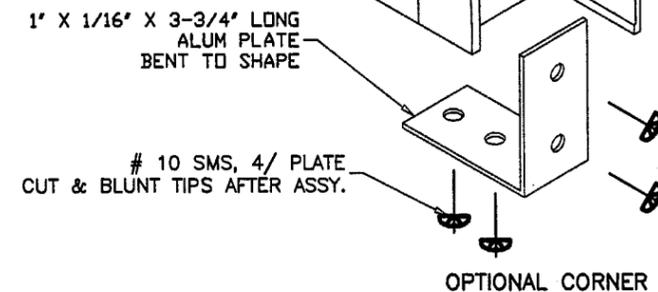
GLAZING OPTIONS



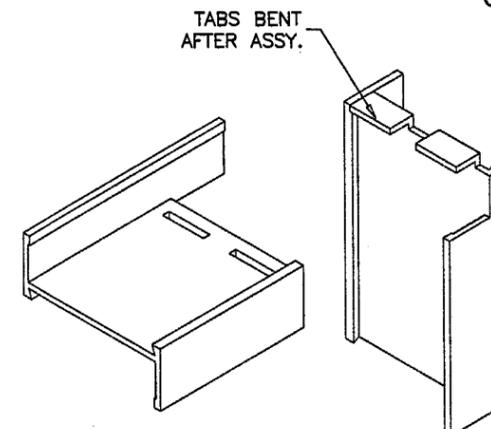
NOTE: WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



CIRCULAR WINDOWS



OPTIONAL CORNER



RECT. OR SQUARE WINDOWS

TYP. CORNER DETAIL
ALL CORNERS TO BE SEALED WITH SCHNEE MOREHEAD #5504

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
JUN 08 2001

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE OCT 25 2001
BY *Manuel*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0110-02

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W99-70AW

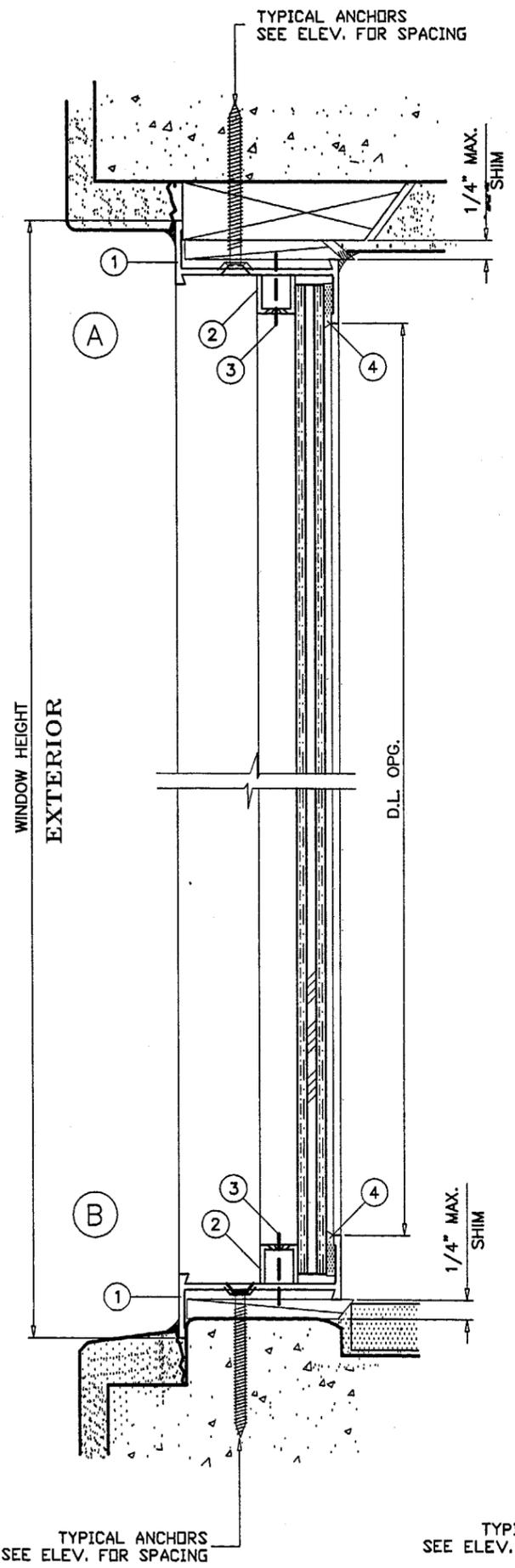
AL-FAROOQ CORPORATION
SERIES-360 ALUM. FIXED WINDOW
KD Windows
3705 SHARES PLACE
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TEL (561) 845-1401 FAX (-)

revisions:	no	date	by	description

date: 09-22-99
scale: 1/2" = 1"
dr. by: HAMID
chk. by:
drawing no. **W99-70**
sheet 2 of 3

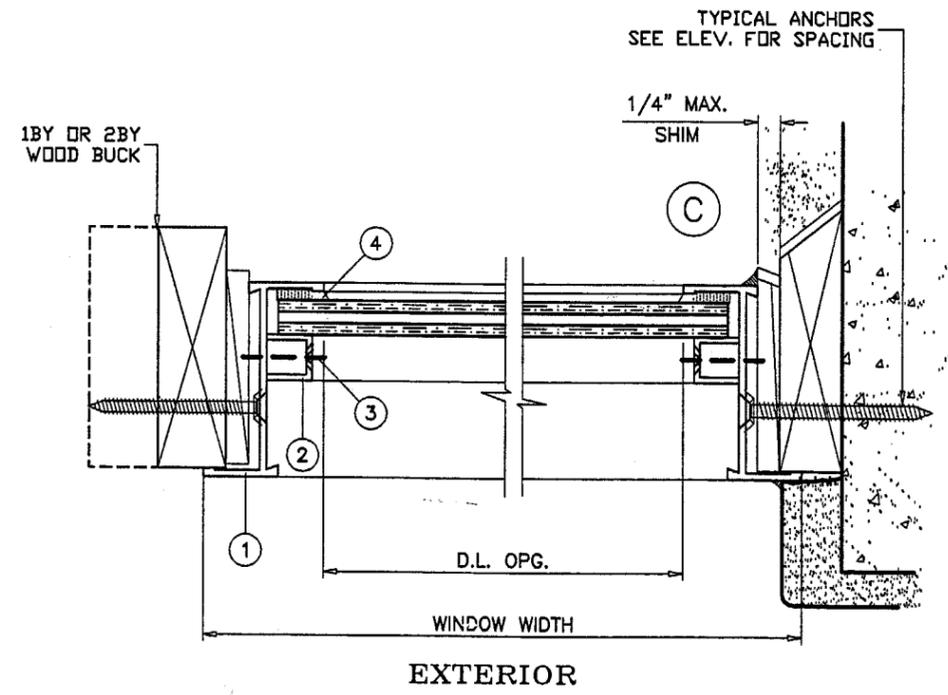
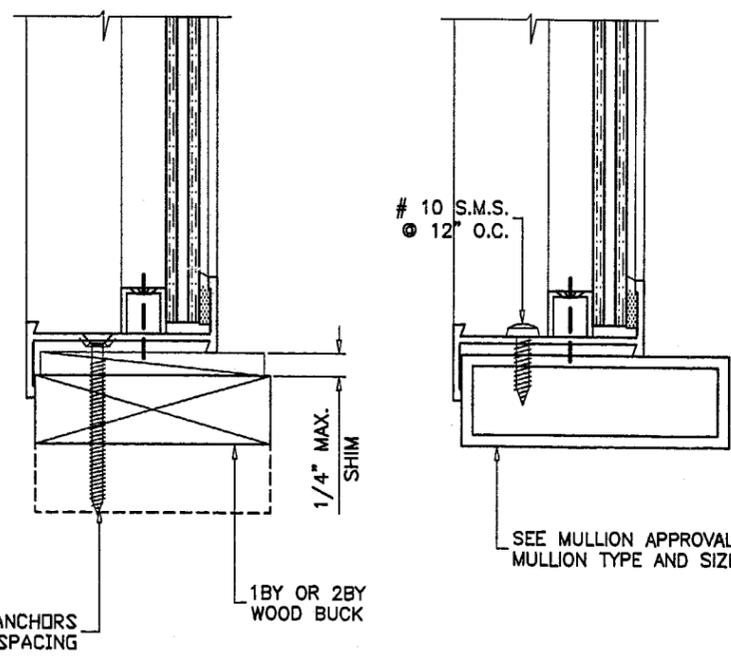
WOOD BUCKS NOT BY KD WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

MATERIALS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPLIER/REMARKS
1	AW-368	4	WINDOW FRAME	ALUMINUM	6063-T5
2	AW-375	4	GLAZING STOP	ALUMINUM	6063-T5
3	#6 X 3/4"	AS REQD.	FH SHEET METAL SCREWS	-	6" FROM CORNERS & 24" O.C.
4	-	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING 899



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 3/16" Ø TAPCONS (BY ELCO) OR EQUIV. CONC. ANCHOR HOLDING CURRENT NOTICE OF ACCEPTANCE.
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-3/8" MIN. PENETRATION INTO WOOD
 THRU 1 BY WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

SEALANTS:
 FRAME CORNERS AND PERIMETER OF GLAZING BEAD SEALED WITH DOW CORNING 899 SILICONE.



Engr. DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
 JUN 08 2001

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE OCT 25 2001
 BY *Manuel...*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. DL-0110-02

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 W99-70AW

SERIES-360 ALUM. FIXED WINDOW

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

revisions:	no	date	by	description

date: 09-22-99
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W99-70
 sheet 3 of 3