



**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**

**Kolbe & Kolbe Millwork Company**  
1323 South Eleventh Avenue  
Wausau ,WI 54403

Your application for Notice of Acceptance (NOA) of:

**Series "Ultra Heritage" Non Clad & Aluminum Clad Wood Fixed Window**

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.: 01-0522.05**  
**EXPIRES: 06/28/2006**

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: 06/28/2001**

**Kolbe & Kolbe Millwork Co. Inc.**

**ACCEPTANCE No.:** 01-0522.05

**APPROVED** : JUN 28 2001

**EXPIRES** : JUN 28 2006

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

**1.1** This approves a wood 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 "Ultra Heritage" Non Clad & Aluminum Clad Wood Fixed Window and its components shall be constructed in strict compliance with the following documents: Drawing No **W01-22**, titled "Ultra, Heritage Wood &Clad Fixed Window" Sheets 1 through 10 of 10, dated 04/25/01, 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 and side by side installations, as shown in approved drawings.  
**3.2** For Design Pressure Rating vs. Window Size, see Comparative Analysis Tables in approved drawings.

**4. INSTALLATION**

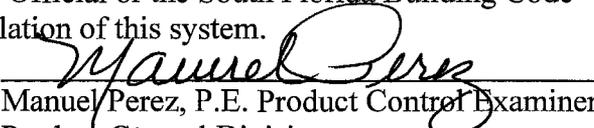
**4.1** The aluminum awning window and its components shall be installed in strict compliance with the approved drawings.  
**4.2** Hurricane protection system (shutters): to determine whether the installation requires a hurricane protection system or not, see corresponding table in approved drawing.

**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

Kolbe & Kolbe Millwork Co. Inc.

ACCEPTANCE No.: 01-0522.05

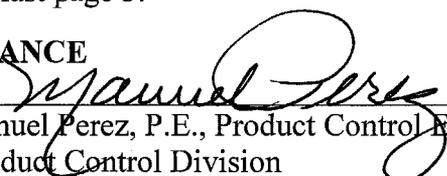
APPROVED : JUN 28 2001

EXPIRES : JUN 28 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 purposes.
6. The Notice of Acceptance 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 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 time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

**END OF THIS ACCEPTANCE**

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

Kolbe & Kolbe Millwork Co. Inc.

ACCEPTANCE No.: 01-0522.05

APPROVED : JUN 28 2001

EXPIRES : JUN 28 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 **W01-22**, titled "Ultra, Heritage Wood & Clad Fixed Window" Sheets 1 through 10 of 10, dated 04/25/01, 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 wood fixed window, prepared by Architectural Testing Test Report No. **ATI 02-32758.01**, dated 02/01/01, signed and sealed by Allen N. Reeves, 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 fixed window, prepared by Architectural Testing Test Report No. **ATI 02-32759.01**, dated 11/21/00, signed and sealed by Allen N. Reeves, P.E.
3. Test reports on 1) Air Infiltration Test, per PA 202-94  
2) Uniform Static Air Pressure Test, Loading per PA 202-94  
3) Water Resistance Test, per PA 202-94  
4) Forced Entry Test, per SFBC 3603.2 (b) and PA 202-94  
along with marked-up drawings and installation diagram of a wood fixed window, prepared by Architectural Testing Test Report No. **ATI 02-32723.01**, dated 11/02/01, signed and sealed by Allen N. Reeves, P.E.

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, Job # AFC 01-072 prepared by Al Farooq Corporation, dated May 15, 2001, signed and sealed by Humayoun Farooq, P.E.

**D. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **99-0908.01** issued to Cardinal DGP for "Cardinal Sea StormType B" dated 12/30/99, expiring on 12/30/02.

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

Kolbe & Kolbe Millwork Co. Inc.

ACCEPTANCE No.: 01-0522.05

APPROVED : JUN 28 2001

EXPIRES : JUN 28 2006

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

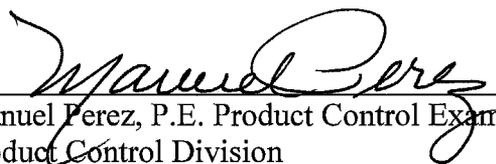
*(For File ONLY. Not part of NOA.)*

**E. STATEMENTS**

1. Statement letter of conformance, dated May 16, 2001, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated May 16, 2001, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. ATI- 02-32758, issued by Architectural Testing, dated April 24, 2001, signed and sealed by Allen N. Reeves, P.E.
4. Laboratory compliance letter for Test Report no. ATI- 02-32759, issued by Architectural Testing, dated March 21, 2001, signed and sealed by Allen N. Reeves, P.E.
5. Laboratory compliance letter for Test Report no. ATI- 02-32723, issued by Architectural Testing, dated February 7, 2001, signed and sealed by Allen N. Reeves, P.E.

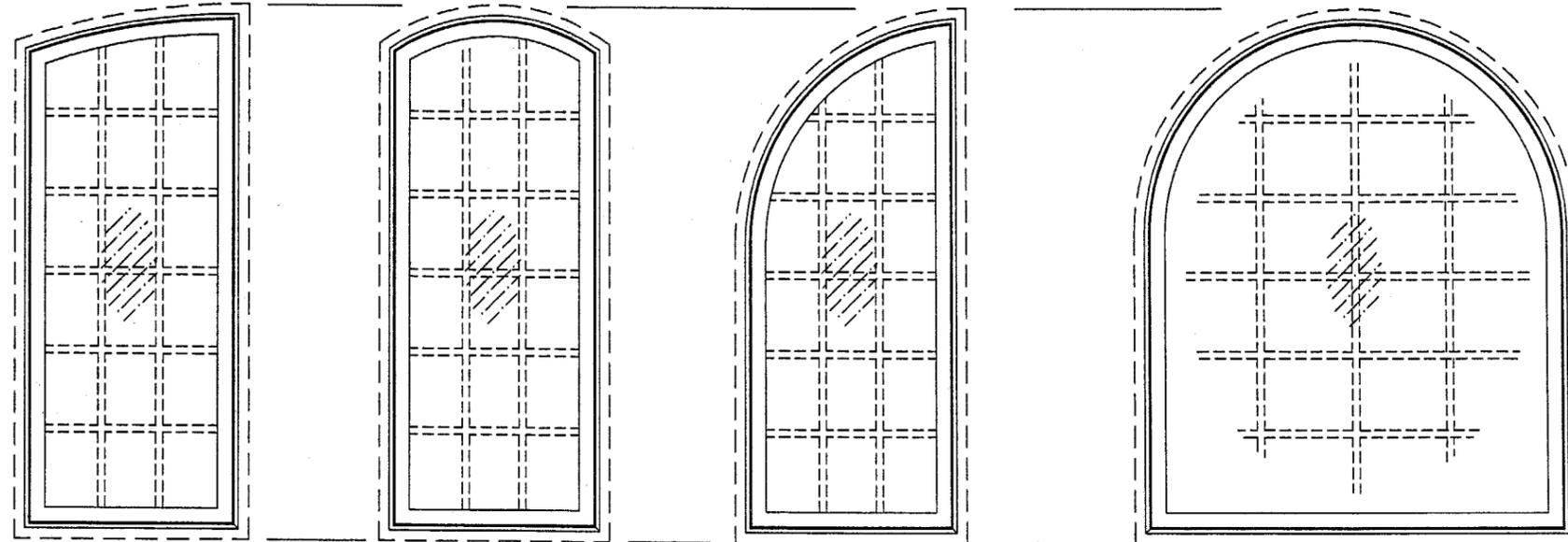
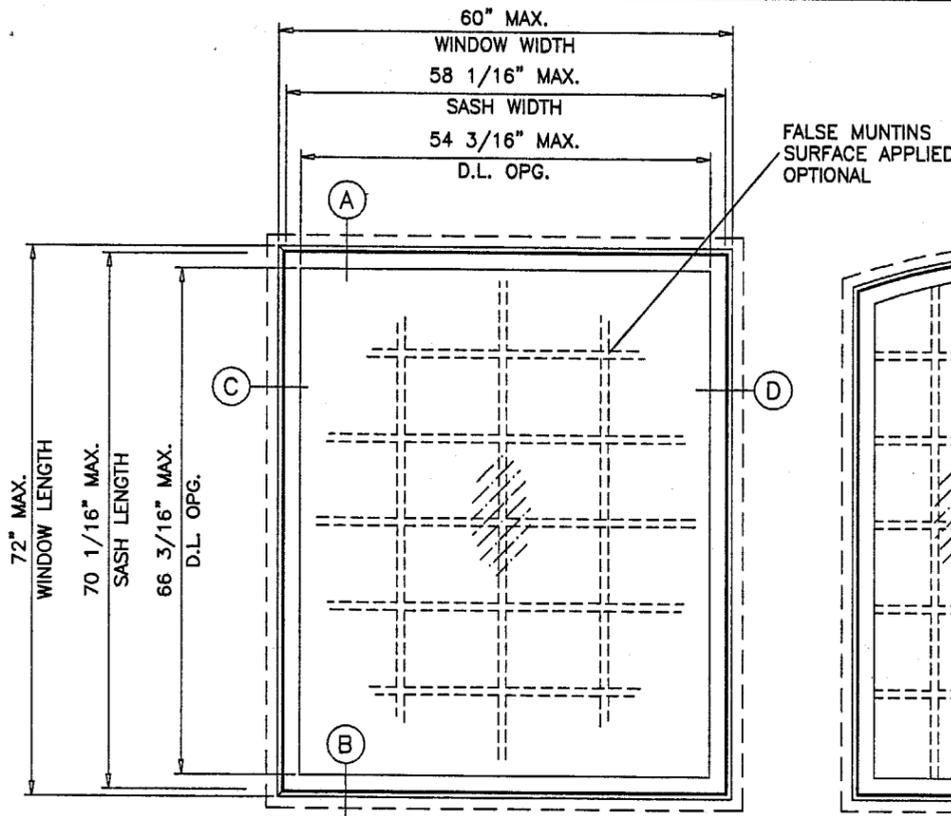
**F. OTHER**

1. None.

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

**KOLBE & KOLBE MILLWORK CO. INC.**

1323 SOUTH 11TH AVE.  
WAUSAU, WISCONSIN 54401

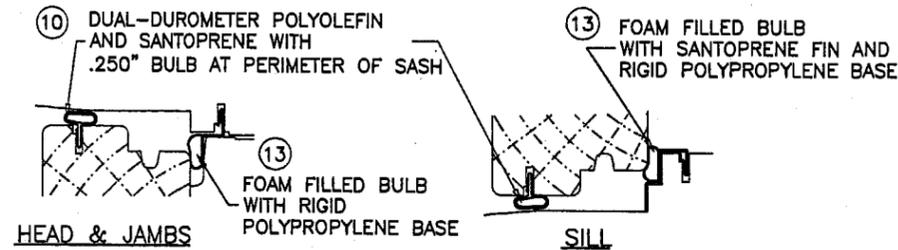


**TYPICAL ANCHOR OPTIONS:**

ALL ANCHORS TO BE AT 7" FROM HEAD/SILL/JAMB CORNERS AND 14" O.C. MAX. SPACING.

- A- # 12 WOOD SCREWS  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE  
1-3/8" MIN. PENETRATION INTO WOOD
- B- 3/16"  $\phi$  X 2-1/4" TAPCONS (BY ELCO) OR EQUIVALENT CONCRETE ANCHOR  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE  
THRU 1BY WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
- C- .050 X 1-1/2" STEEL STRAPS  
WITH #8 X 1-3/4" SCREWS (2) PER STRAP

**WEATHER STRIPPING:**



**SEALANTS:**

SEE GLAZING DETAILS AND CORNER CONSTRUCTION DETAILS.

**SERIES ULTRA, HERITAGE WOOD & CLAD FIXED WINDOWS**

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

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS ON SHEETS 4 AND 5 OF THIS SUBMITTAL.

WINDOWS GLAZED WITH INSULATING GLASS TO BE RATED FOR NON-IMPACT AND REQUIRE PROTECTION BY APPR'D IMPACT RESISTANT SHUTTERS  
DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS ON SHEETS 2 AND 3 OF THIS SUBMITTAL.

SIDE BY SIDE COMBINATION OF FIXED/FIXED, FIXED/CASEMENT OR FIXED/AWNING TO BE RATED FOR IMPACT OR NON-IMPACT APPLICATIONS.

DESIGN LOAD RATING FOR MULLIONS TO BE AS PER SHEET 10 AND FOR WINDOWS AS PER SHEETS LISTED ABOVE.

THESE PRODUCTS ARE DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR DADE COUNTY. 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.

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

*JUN 05 2001*

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE **JUN 28 2001**  
BY *M. Hamid*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0522.05

*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\W01-22KK

ULTRA, HERITAGE WOOD & CLAD FIXED WINDOW  
**Kolbe & Kolbe Millwork Co. Inc.**  
1323 SOUTH 11TH AVE.  
WAUSAU, WISCONSIN 54401  
TEL. (715) 742-5666 FAX. (715) 847-0646

revisions:	no	date	by	description

date: 04-25-01  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. **W01-22**  
sheet 1 of 10

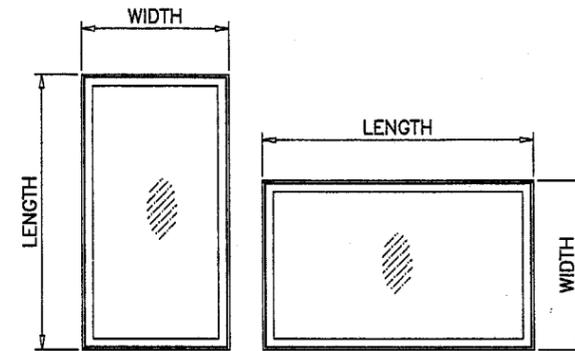
DESIGN LOAD CAPACITY - PSF (NON-IMPACT RESIST. WINDOWS)  
MIAMI DADE COUNTY APPR'D IMPACT RESISTANT SHUTTERS REQD. FOR ALL INSTALLATIONS

WINDOW DIMENSIONS		5/32" INSUL ANN. GLASS		1/4" INSUL ANN. GLASS	
		ANCHORS TYPE 'A' 'B' 'C'		ANCHORS TYPE 'A' 'B' 'C'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
16'	30'	65.0	124.6	65.0	146.3
20'		65.0	109.7	65.0	117.0
24'		65.0	97.5	65.0	97.5
30'		65.0	78.0	65.0	78.0
36'		65.0	78.0	65.0	78.0
40'		65.0	78.0	65.0	78.0
48'		65.0	70.9	65.0	78.0
54'		65.0	67.5	65.0	78.0
60'		-	-	65.0	78.0
60'		-	-	65.0	78.0
16'	36'	65.0	117.5	65.0	141.0
20'		65.0	101.3	65.0	117.0
24'		65.0	91.4	65.0	97.5
30'		65.0	78.0	65.0	78.0
36'		65.0	65.0	65.0	65.0
40'		64.2	65.0	64.2	65.0
48'		65.0	65.0	65.0	65.0
54'		-	-	63.4	65.0
60'		-	-	65.0	65.0
60'		-	-	65.0	65.0
16'	42'	65.0	112.9	65.0	135.5
20'		65.0	96.0	65.0	115.2
24'		65.0	85.3	65.0	97.5
30'		65.0	75.8	65.0	78.0
36'		65.0	65.0	65.0	65.0
40'		58.5	58.5	58.5	58.5
48'		-	-	55.7	55.7
54'		-	-	54.3	55.7
60'		-	-	55.7	55.7
60'		-	-	55.7	55.7
16'	48'	65.0	109.7	65.0	131.6
20'		65.0	92.4	65.0	110.8
24'		65.0	81.3	65.0	97.5
30'		65.0	70.9	65.0	78.0
36'		65.0	65.0	65.0	65.0
40'		-	-	58.5	58.5
48'		-	-	48.8	48.8
54'		-	-	47.6	48.8
60'		-	-	47.6	48.8
60'		-	-	47.6	48.8
16'	54'	65.0	107.3	65.0	128.8
20'		65.0	89.7	65.0	107.7
24'		65.0	78.3	65.0	94.0
30'		65.0	67.5	65.0	78.0
36'		-	-	63.4	65.0
40'		-	-	57.1	58.5
48'		-	-	47.6	48.8
60'		-	-	47.6	48.8
60'		-	-	47.6	48.8
60'		-	-	47.6	48.8

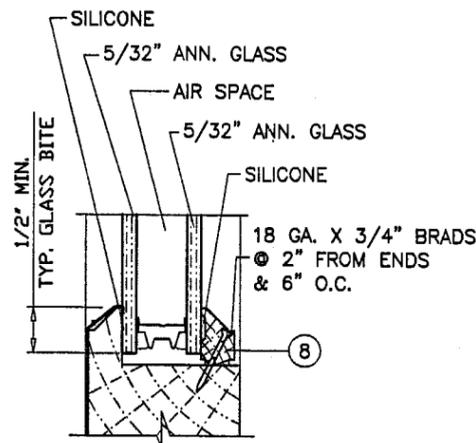
DESIGN LOAD CAPACITY - PSF (NON-IMPACT RESIST. WINDOWS)  
MIAMI DADE COUNTY APPR'D IMPACT RESISTANT SHUTTERS REQD. FOR ALL INSTALLATIONS

WINDOW DIMENSIONS		5/32" INSUL ANN. GLASS		1/4" INSUL ANN. GLASS	
		ANCHORS TYPE 'A' 'B' 'C'		ANCHORS TYPE 'A' 'B' 'C'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
16'	60'	65.0	105.5	65.0	126.6
20'		65.0	87.8	65.0	105.3
24'		65.0	76.2	65.0	91.4
30'		-	-	65.0	78.0
36'		-	-	65.0	65.0
40'		-	-	58.5	58.5
16'	66'	65.0	104.0	65.0	124.8
20'		65.0	86.2	65.0	103.4
24'		65.0	74.5	65.0	89.4
30'		-	-	65.0	75.7
36'		-	-	64.8	65.0
40'		-	-	65.0	65.0
16'	72'	65.0	102.8	65.0	123.4
20'		65.0	84.9	65.0	101.9
24'		65.0	73.1	65.0	87.8
30'		-	-	65.0	73.9
36'		-	-	65.0	65.0
40'		-	-	65.0	65.0

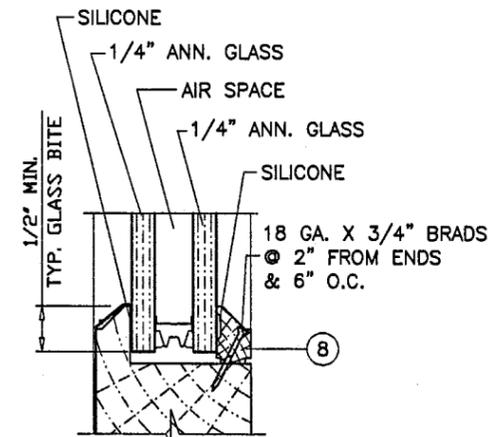
NON-IMPACT WINDOWS



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



7/8" OVERALL INSULATED  
NON-IMPACT RESISTANT GLASS  
IMPACT RESISTANT SHUTTERS REQD.



7/8" OVERALL INSULATED  
NON-IMPACT RESISTANT GLASS  
IMPACT RESISTANT SHUTTERS REQD.

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

JUN 05 2001

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE JUN 28 2001  
BY *Manuel*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0522.05

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TEL (715) 742-5666 FAX (715) 847-0646

revisions:	no	date	by	description

date: 04-25-01  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W01-22**

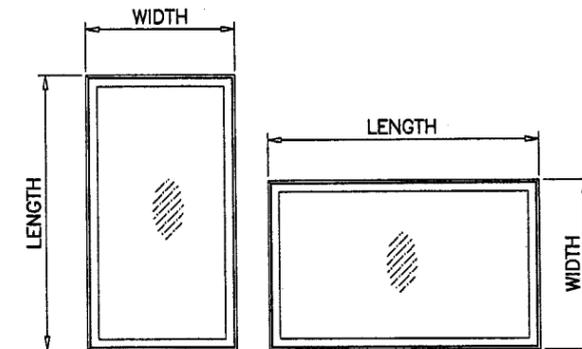
DESIGN LOAD CAPACITY - PSF (NON-IMPACT RESIST. WINDOWS)  
MIAMI DADE COUNTY APPR'D IMPACT RESISTANT SHUTTERS REQD. FOR ALL INSTALLATIONS

WINDOW DIMENSIONS		1/4" INSUL TEMP. GLASS					
WIDTH	LENGTH	ANCH		ANCHORS TYPE 'B'		ANCHORS TYPE 'C'	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
16'	65.0	193.9		65.0	193.9	65.0	193.9
20'	65.0	170.6		65.0	170.6	65.0	170.6
24'	65.0	158.0		65.0	158.0	65.0	158.0
30'	65.0	130.0		65.0	130.0	65.0	130.0
36'	65.0	130.0		65.0	130.0	65.0	116.8
40'	65.0	118.8		65.0	121.3	65.0	105.1
48'	65.0	110.3		65.0	110.3	65.0	110.3
54'	65.0	105.0		65.0	105.0	65.0	103.8
60'	65.0	101.1		65.0	101.1	65.0	101.1
16'	65.0	182.8		65.0	182.8	65.0	182.8
20'	65.0	157.5		65.0	157.5	65.0	157.5
24'	65.0	142.2		65.0	142.2	65.0	142.2
30'	65.0	130.0		65.0	130.0	65.0	116.8
36'	65.0	108.3		65.0	108.3	65.0	97.3
40'	65.0	108.3		65.0	108.3	64.2	87.6
48'	65.0	101.1		65.0	101.1	65.0	97.3
54'	65.0	94.8		65.0	94.8	63.4	86.5
60'	65.0	90.3		65.0	90.3	65.0	90.3
16'	65.0	175.6		65.0	175.6	65.0	175.6
20'	65.0	149.3		65.0	149.3	65.0	149.3
24'	65.0	132.7		65.0	132.7	65.0	132.7
30'	65.0	118.0		65.0	118.0	65.0	118.0
36'	65.0	108.3		65.0	108.3	65.0	108.3
40'	65.0	97.5		65.0	97.5	65.0	97.5
48'	65.0	92.9		65.0	92.9	61.1	83.4
54'	65.0	83.8		65.0	88.6	54.3	74.2
60'	65.0	83.3		65.0	83.3	61.1	83.3
16'	65.0	170.6		65.0	170.6	65.0	170.6
20'	65.0	143.7		65.0	143.7	65.0	143.7
24'	65.0	126.4		65.0	126.4	65.0	126.4
30'	65.0	110.3		65.0	110.3	65.0	110.3
36'	65.0	101.1		65.0	101.1	65.0	97.3
40'	65.0	97.5		65.0	97.5	64.2	87.6
48'	65.0	81.3		65.0	81.3	53.5	73.0
54'	65.0	73.3		65.0	81.3	47.6	64.9
60'	65.0	79.0		65.0	79.0	53.5	73.0
16'	65.0	166.9		65.0	166.9	65.0	166.9
20'	65.0	139.6		65.0	139.6	65.0	139.6
24'	65.0	121.9		65.0	121.9	65.0	121.9
30'	65.0	105.0		65.0	105.0	65.0	103.8
36'	65.0	94.8		65.0	94.8	63.4	86.5
40'	65.0	88.0		65.0	90.3	57.1	77.9
48'	65.0	73.3		65.0	81.3	47.6	64.9
54'	65.0	65.2		65.0	72.2	42.3	57.7
60'	65.0	72.2		65.0	72.2	47.6	64.9

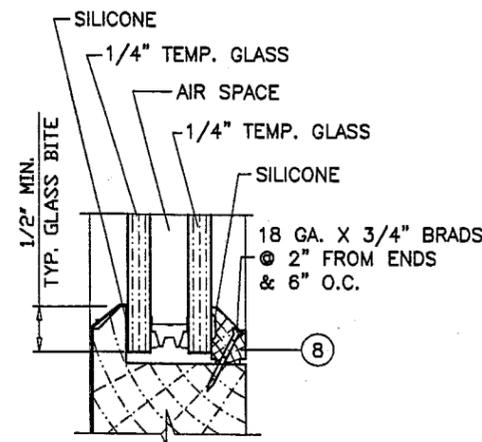
DESIGN LOAD CAPACITY - PSF (NON-IMPACT RESIST. WINDOWS)  
MIAMI DADE COUNTY APPR'D IMPACT RESISTANT SHUTTERS REQD. FOR ALL INSTALLATIONS

WINDOW DIMENSIONS		1/4" INSUL TEMP. GLASS					
WIDTH	LENGTH	ANCHORS TYPE 'A'		ANCHORS TYPE 'B'		ANCHORS TYPE 'C'	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
16'	60'	65.0	164.1	65.0	164.1	65.0	164.1
20'		65.0	136.5	65.0	136.5	65.0	136.5
24'		65.0	118.5	65.0	118.5	65.0	118.5
30'		65.0	101.1	65.0	101.1	65.0	101.1
36'		65.0	90.3	65.0	90.3	65.0	90.3
40'		65.0	85.3	65.0	85.3	64.2	85.3
48'		65.0	79.0	65.0	79.0	53.5	73.0
54'		65.0	72.2	65.0	72.2	47.6	64.9
60'		65.0	65.0	65.0	65.0	42.8	58.4
16'		66'	65.0	161.8	65.0	161.8	65.0
20'	65.0		134.1	65.0	134.1	65.0	134.1
24'	65.0		115.9	65.0	115.9	65.0	115.9
30'	65.0		98.1	65.0	98.1	65.0	98.1
36'	65.0		86.9	65.0	86.9	64.8	86.9
40'	65.0		81.6	65.0	81.6	58.4	79.6
48'	65.0		74.5	65.0	74.5	48.6	66.4
54'	65.0		66.7	65.0	71.3	43.2	59.0
60'	60.0		60.0	65.0	65.0	38.9	53.1
16'	72'		65.0	160.0	65.0	160.0	65.0
20'		65.0	132.1	65.0	132.1	65.0	132.1
24'		65.0	113.8	65.0	113.8	65.0	113.8
30'		65.0	95.8	65.0	95.8	65.0	95.8
36'		65.0	84.3	65.0	84.3	65.0	84.3
40'		65.0	78.8	65.0	78.8	64.2	78.8
48'		65.0	71.1	65.0	71.1	53.5	71.1
54'		65.0	67.4	65.0	67.4	47.6	64.9
60'		65.0	65.0	65.0	65.0	42.8	58.4

NON-IMPACT WINDOWS



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



7/8" OVERALL INSULATED  
NON-IMPACT RESISTANT GLASS  
IMPACT RESISTANT SHUTTERS REQD.

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

JUN 05 2001

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE JUN 28 2001  
BY *Manuel Perez*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0522.05

*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\W01-22KK

ULTRA, HERITAGE WOOD & CLAD FIXED WINDOW  
Kolbe & Kolbe Millwork Co. Inc.  
1323 SOUTH 11TH AVE.  
WAUSAU, WISCONSIN 54401  
TEL. (715) 742-5666 FAX. (715) 847-0646

revisions:	no	date	by	description

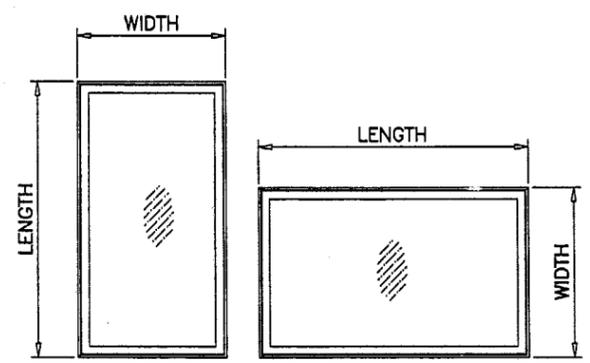
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dr. by: HAMID  
chk. by:

drawing no.  
**W01-22**  
sheet 3 of 10

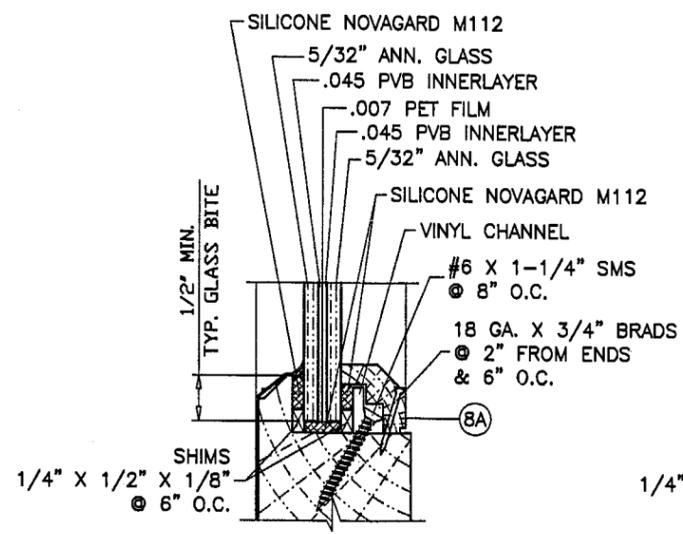
DESIGN LOAD CAPACITY - PSF (IMPACT RESISTANT WINDOWS) SHUTTERS NOT REQUIRED					
WINDOW DIMENSIONS		3/8" LAM. ANN. GLASS		7/16" LAM. ANN. GLASS	
		ANCHORS TYPE 'A' 'B' 'C'		ANCHORS TYPE 'A' 'B' 'C'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
16'	30'	65.0	65.0	65.0	65.0
20'		65.0	65.0	65.0	65.0
24'		65.0	65.0	65.0	65.0
30'		65.0	65.0	65.0	65.0
36'		65.0	65.0	65.0	65.0
40'		65.0	65.0	65.0	65.0
48'		65.0	65.0	65.0	65.0
54'		65.0	65.0	65.0	65.0
60'		-	-	65.0	65.0
16'	36'	65.0	65.0	65.0	65.0
20'		65.0	65.0	65.0	65.0
24'		65.0	65.0	65.0	65.0
30'		65.0	65.0	65.0	65.0
36'		65.0	65.0	65.0	65.0
40'		64.2	65.0	64.2	65.0
48'		65.0	65.0	65.0	65.0
54'		-	-	63.4	65.0
60'		-	-	65.0	65.0
16'	42'	65.0	65.0	65.0	65.0
20'		65.0	65.0	65.0	65.0
24'		65.0	65.0	65.0	65.0
30'		65.0	65.0	65.0	65.0
36'		65.0	65.0	65.0	65.0
40'		58.5	58.5	58.5	58.5
48'		-	-	55.7	55.7
54'		-	-	54.3	55.7
60'		-	-	55.7	55.7
16'	48'	65.0	65.0	65.0	65.0
20'		65.0	65.0	65.0	65.0
24'		65.0	65.0	65.0	65.0
30'		65.0	65.0	65.0	65.0
36'		65.0	65.0	65.0	65.0
40'		-	-	58.5	58.5
48'		-	-	48.8	48.8
54'		-	-	47.6	48.8
16'		54'	65.0	65.0	65.0
20'	65.0		65.0	65.0	65.0
24'	65.0		65.0	65.0	65.0
30'	65.0		65.0	65.0	65.0
36'	-		-	63.4	65.0
40'	-		-	57.1	58.5
48'	-		-	47.6	48.8

DESIGN LOAD CAPACITY - PSF (IMPACT RESISTANT WINDOWS) SHUTTERS NOT REQUIRED					
WINDOW DIMENSIONS		3/8" LAM. ANN. GLASS		7/16" LAM. ANN. GLASS	
		ANCHORS TYPE 'A' 'B' 'C'		ANCHORS TYPE 'A' 'B' 'C'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
16'	60'	65.0	65.0	65.0	65.0
20'		65.0	65.0	65.0	65.0
24'		65.0	65.0	65.0	65.0
30'		-	-	65.0	65.0
36'		-	-	65.0	65.0
40'		-	-	58.5	58.5
16'	66'	65.0	65.0	65.0	65.0
20'		65.0	65.0	65.0	65.0
24'		65.0	65.0	65.0	65.0
30'		-	-	65.0	65.0
36'		-	-	64.8	65.0
16'		72'	65.0	65.0	65.0
20'	65.0		65.0	65.0	65.0
24'	65.0		65.0	65.0	65.0
30'	-		-	65.0	65.0
36'	-		-	65.0	65.0

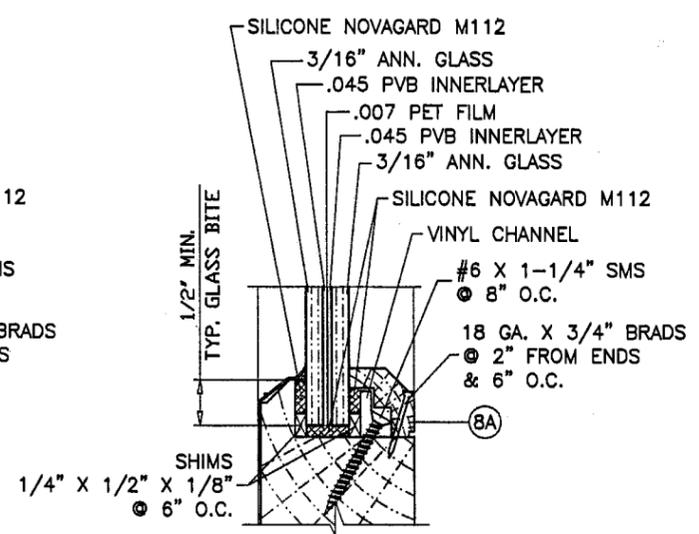
**IMPACT WINDOWS**



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



3/8" THICK NOMINAL  
IMPACT RESISTANT GLASS  
SEASTORM TYPE 'B'  
MANF. BY CARDINAL  
SHUTTERS NOT REQUIRED



7/16" THICK NOMINAL  
IMPACT RESISTANT GLASS  
SEASTORM TYPE 'B'  
MANF. BY CARDINAL  
SHUTTERS NOT REQUIRED

**AL-FAROOQ CORPORATION**  
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revisions:	no	date	by	description

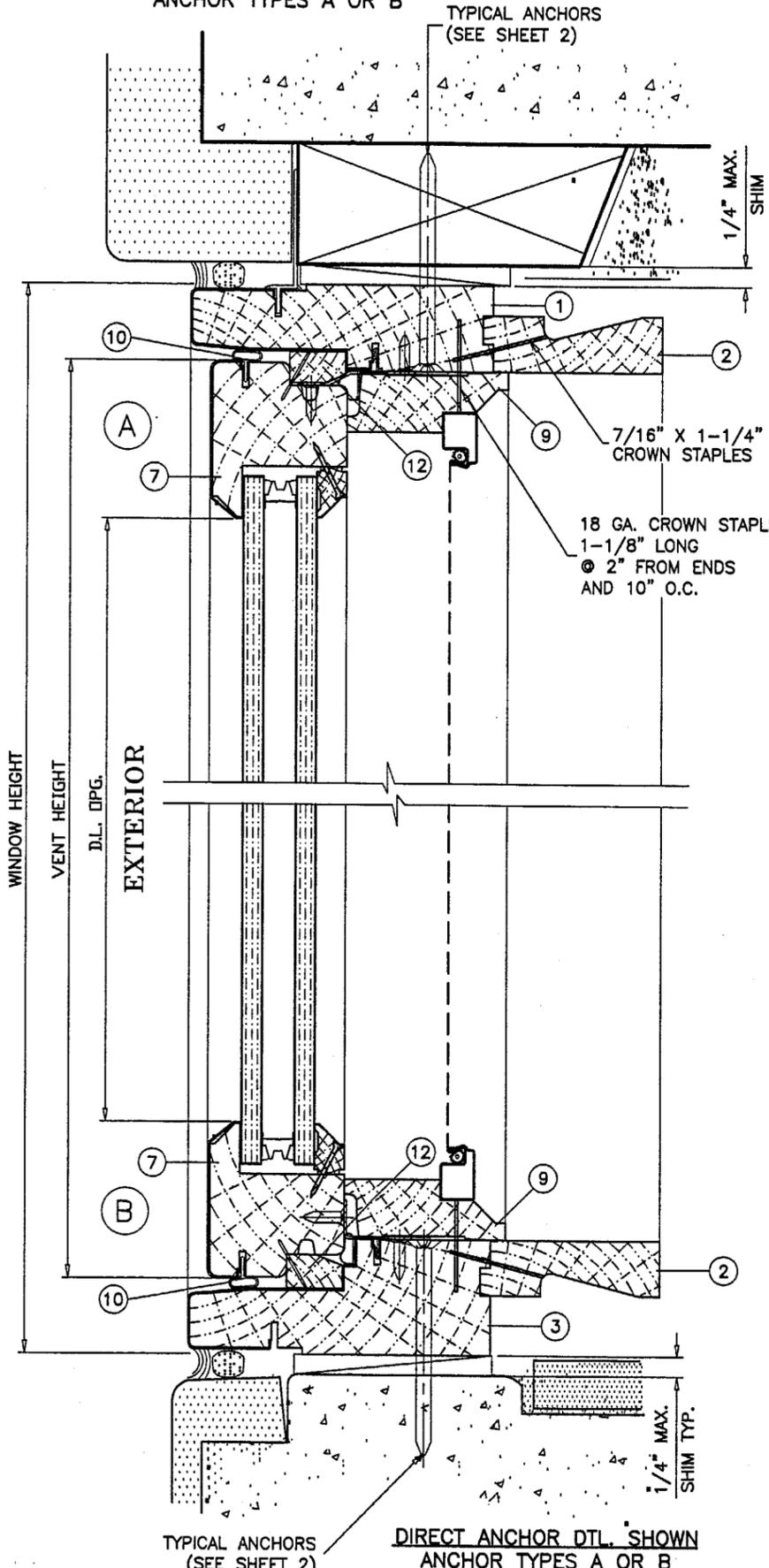
Engr: DR. HUMAYOON FAROOQ  
STRUCTURES  
FLA. PE # 16557  
DATE: JUN 05 2001

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE: JUN 28 2001  
BY: *[Signature]*  
PRODUCT CONTROL DIVISION.  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0522.05

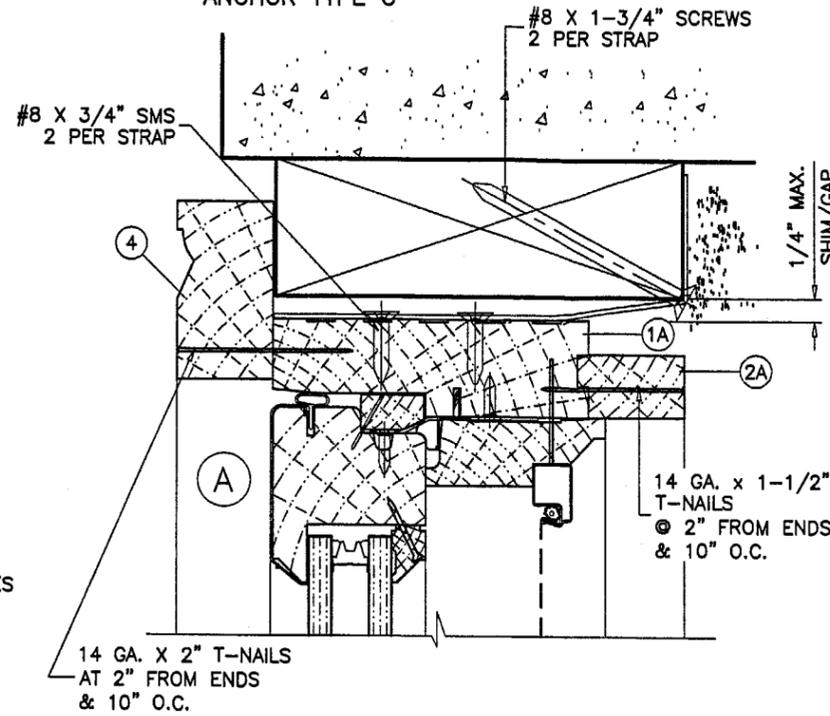
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scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:  
drawing no. W01-22  
sheet 4 of 10



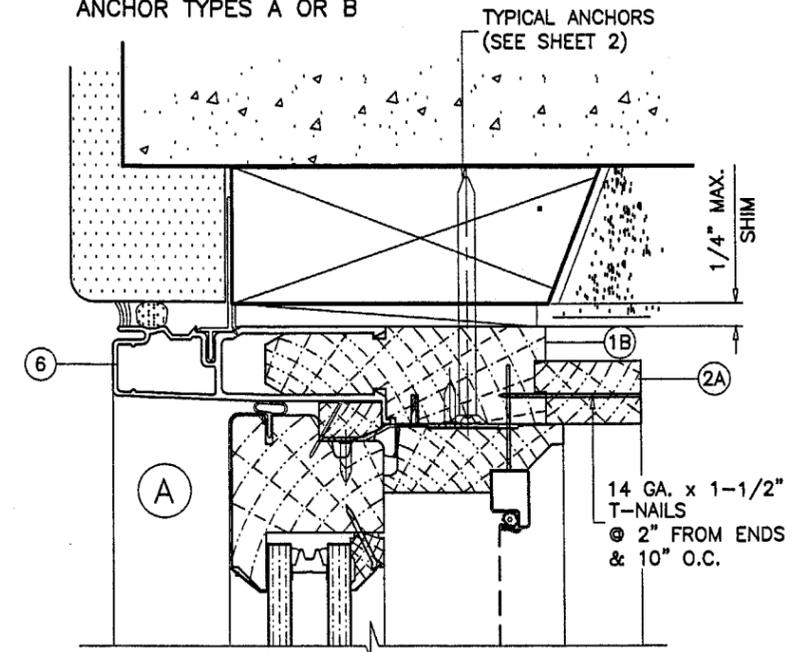
**DIRECT ANCHOR DTL. SHOWN**  
ANCHOR TYPES A OR B



**STRAP ANCHOR DTL. SHOWN**  
ANCHOR TYPE C

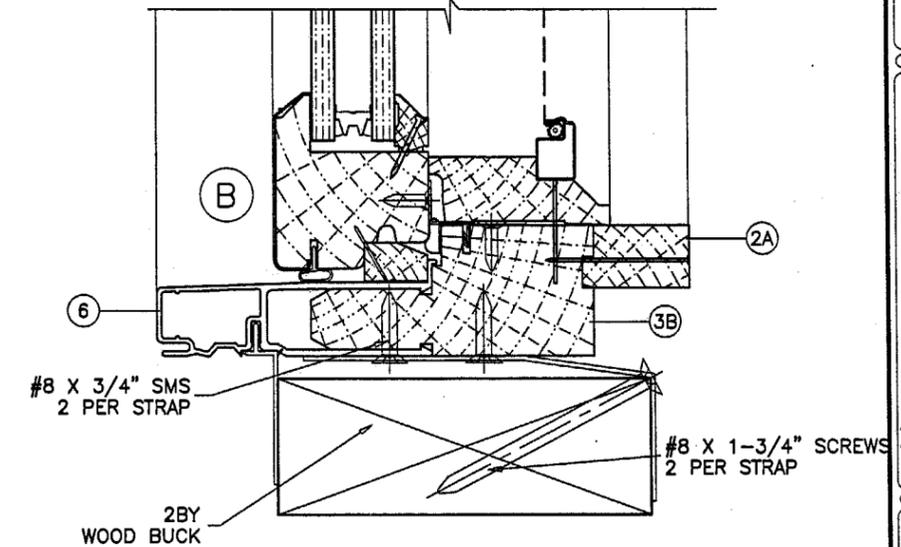
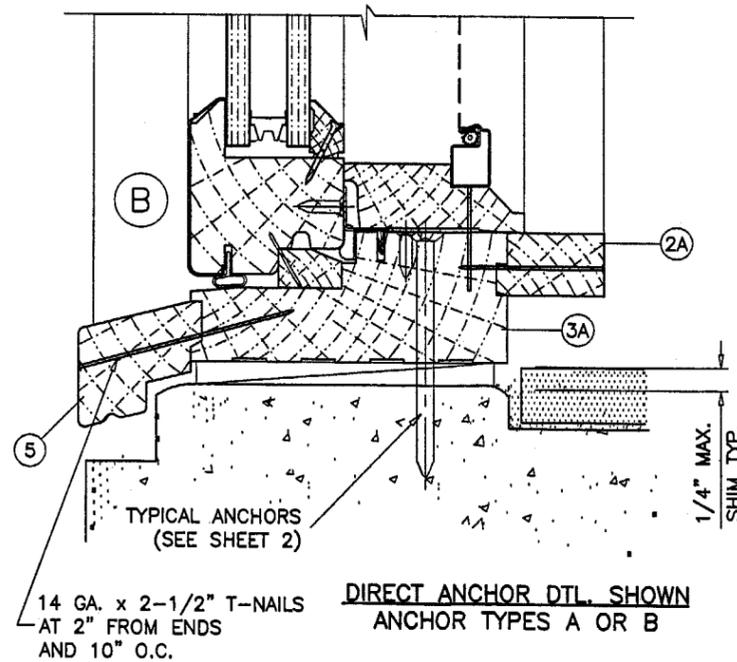


**DIRECT ANCHOR DTL. SHOWN**  
ANCHOR TYPES A OR B



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

**STRAP ANCHOR DTL. SHOWN**  
ANCHOR TYPE C



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

*Humayoun Farooq*  
JUN 05 2001

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE JUN 28 2001  
BY *Mamun Muz*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0522-05

*afc*

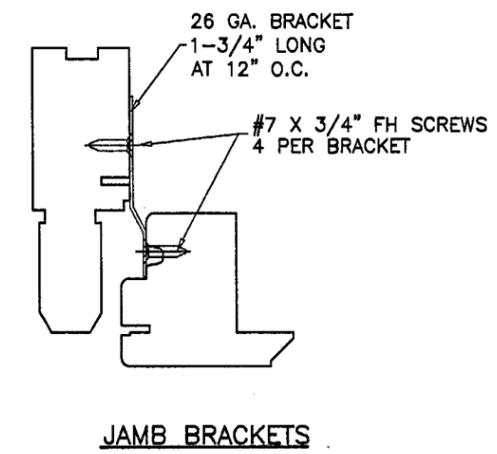
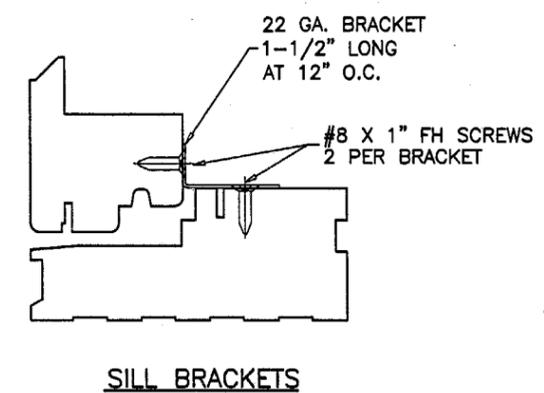
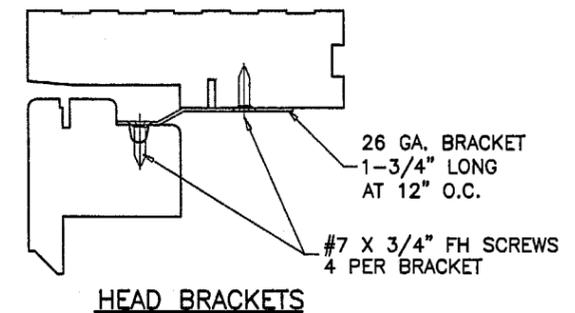
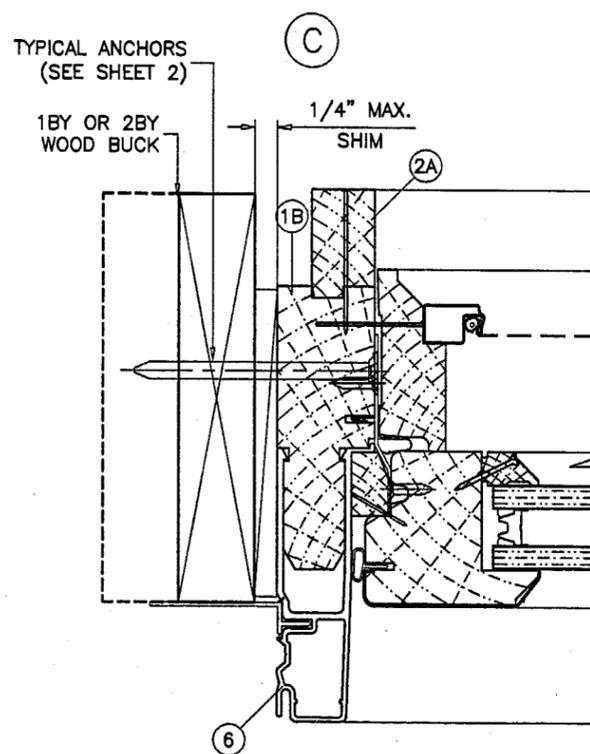
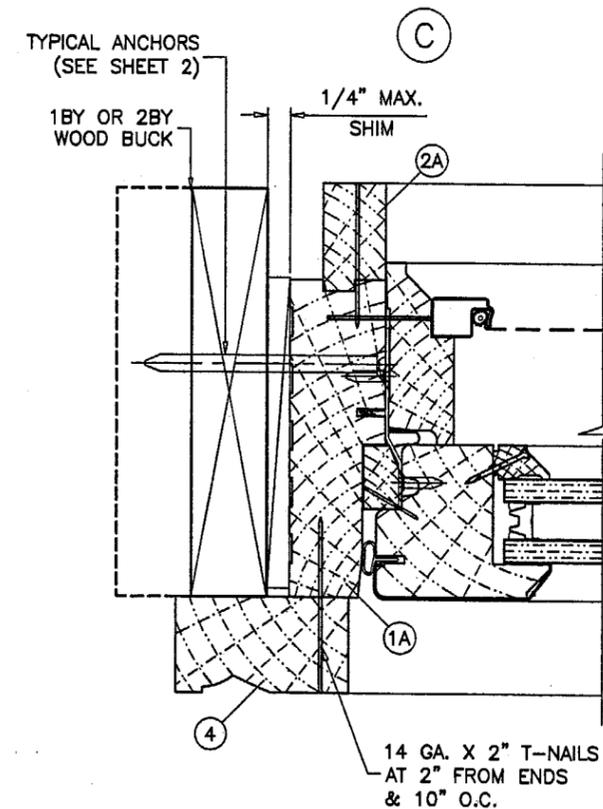
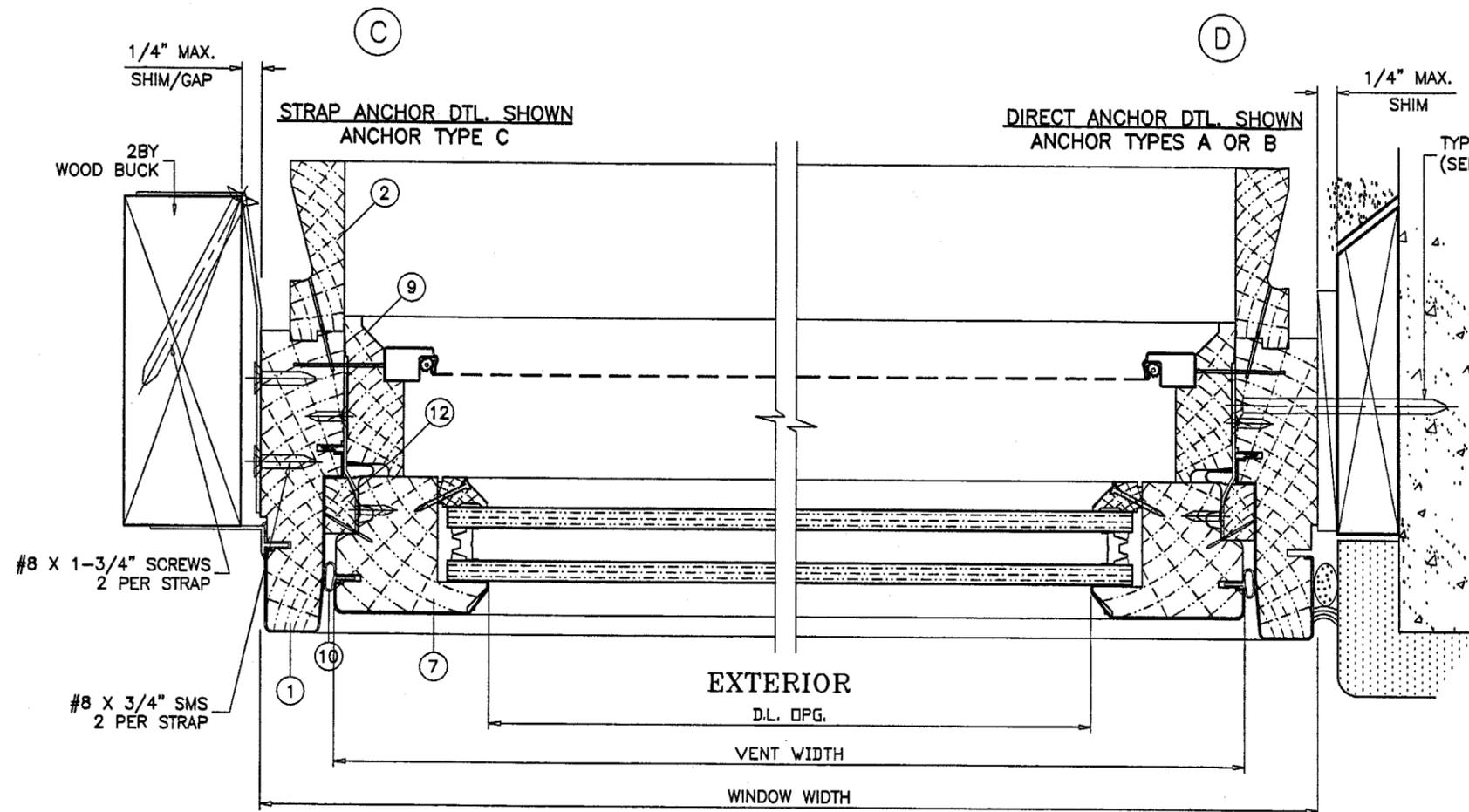
**AL-FAROOQ CORPORATION**  
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1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
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**Kolbe & Kolbe Millwork Co. Inc.**  
1323 SOUTH 11TH AVE.  
WAUSAU, WISCONSIN 54401  
TEL. (715) 742-5666 FAX. (715) 847-0646

revisions:	no	date	by	description

date: 04-25-01  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. **W01-22**  
sheet 6 of 10



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

*Handwritten signature and date: JUN 05 2001*

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE **JUN 28 2001**  
BY *Handwritten signature*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-0522.05

*afc*

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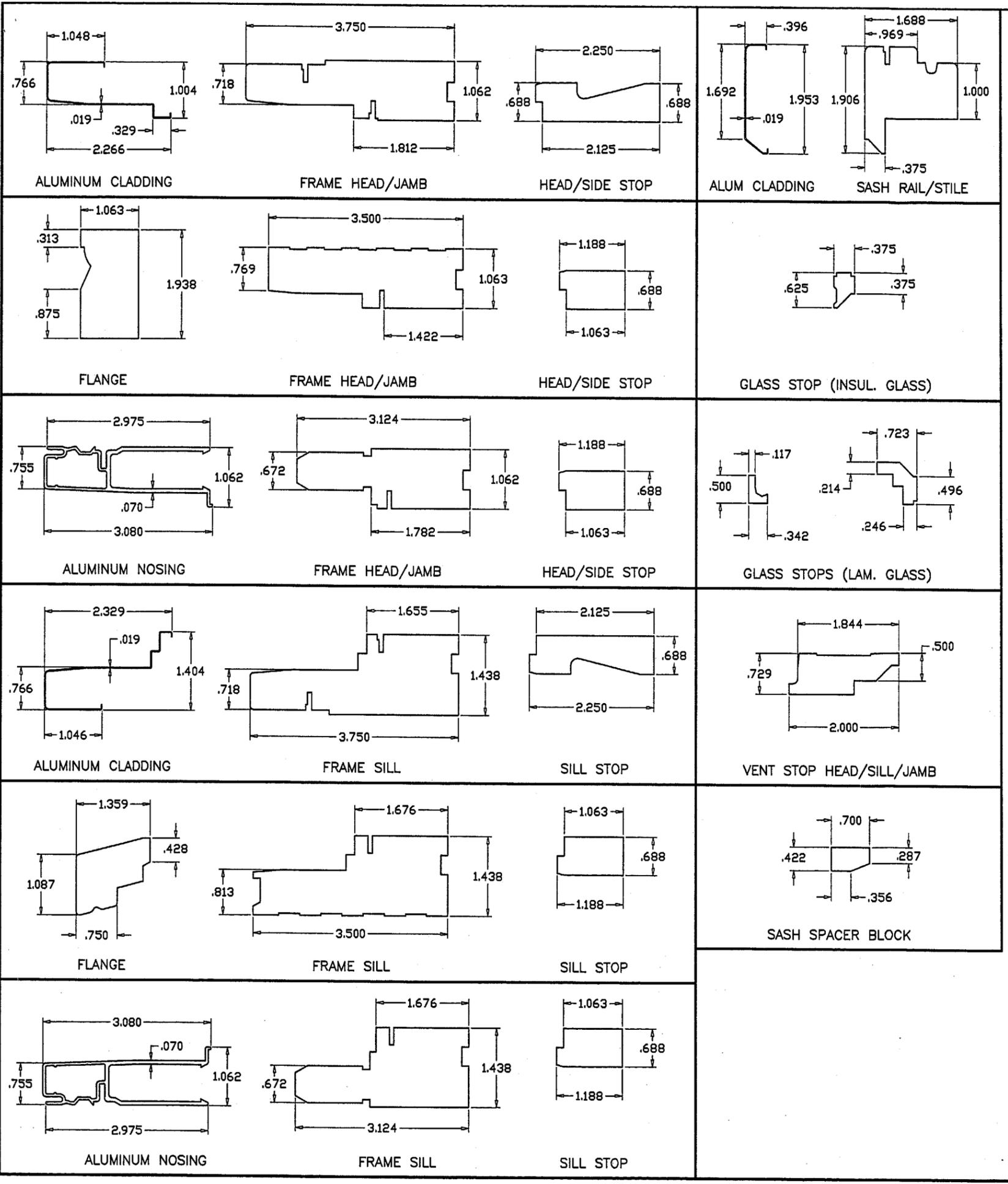
ULTRA, HERITAGE WOOD & CLAD FIXED WINDOW  
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dr. by: HAMID  
chk. by:  

drawing no.  
**W01-22**

sheet 7 of 10



ALL WOOD TO BE PONDEROSA PINE OR EQUAL

ANY WOOD WITH SPECIFIC GRAVITY OF 0.43 OR MORE SHALL BE DEEMED SUITABLE FOR CONSTRUCTION OF WINDOWS AND WOOD COMPONENTS.

**AL-FAROQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W01-22KK

ULTRA, HERITAGE WOOD & CLAD FIXED WINDOW  
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 1323 SOUTH 11TH AVE.  
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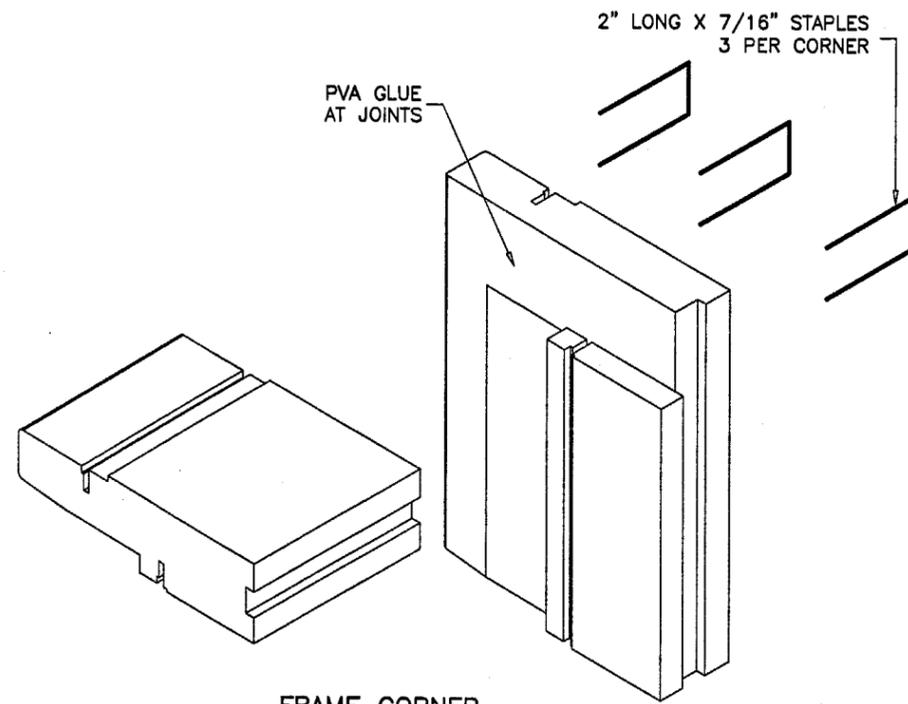
revisions:	no	date	by	description

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

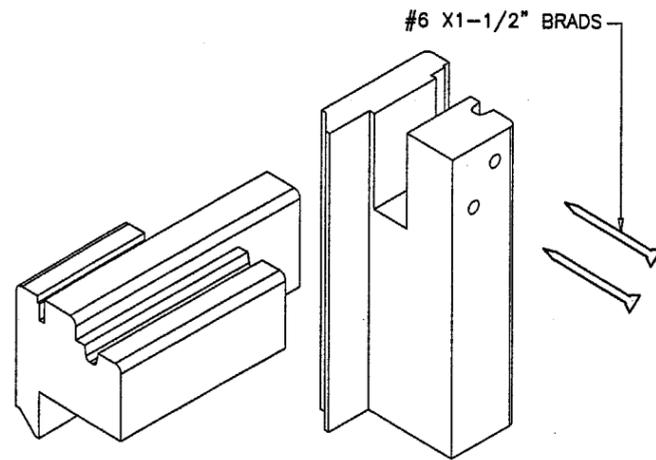
DATE JUN 28 2001  
 BY *Manuel*  
 JAN 05 2001

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE JUN 28 2001  
 BY *Manuel*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
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date: 04-25-01  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:  
 drawing no. W01-22  
 sheet 8 of 10



FRAME CORNER



SASH CORNER

ITEM #	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	2030	AS REQD.	HEAD/JAMB (METAL CLAD FIX.)	WOOD	KOLBE & KOLBE
1A	2002	AS REQD.	HEAD/JAMB (WOOD FIX.)	WOOD	KOLBE & KOLBE
1B	2067	AS REQD.	HEAD/JAMB (ULTRA FIX.)	WOOD	KOLBE & KOLBE
2	4008	AS REQD.	HEAD/SILL/SIDE STOP	WOOD	KOLBE & KOLBE
2A	4000	AS REQD.	HEAD/SILL/SIDE STOP (OPTIONAL TO 2)	WOOD	KOLBE & KOLBE
3	2028	1	FRAME SILL (METAL CLAD FIX.)	WOOD	KOLBE & KOLBE
3A	2011	1	FRAME SILL (WOOD FIX.)	WOOD	KOLBE & KOLBE
3B	2072	1	FRAME SILL (ULTRA FIX.)	WOOD	KOLBE & KOLBE
4	2802	AS REQD.	HEAD/JAMB FLANGE (WOOD FIX.)	WOOD	KOLBE & KOLBE
5	2857	1	SILL FLANGE (WOOD FIX.)	WOOD	KOLBE & KOLBE
6	UC8-100	AS REQD.	HEAD/JAMB/SILL FRAME NOSING (ULTRA FIX.)	ALUMINUM	PURPOSE
7	1000	4/ SASH	SASH RAIL/STILE	WOOD	KOLBE & KOLBE
8	1006	4/ SASH	GLASS STOP (INSUL. GLASS)	WOOD	KOLBE & KOLBE
8A	1053	4/ SASH	GLASS STOP (LAM. GLASS)	WOOD	KOLBE & KOLBE
9	4066	4/ WDW.	VENT STOP HEAD/JAMB/SILL	WOOD	KOLBE & KOLBE
10	CS8-101	AS REQD.	BULB WEATHERSTRIP	POLYPROPYLENE	AT EACH SASH MEMBER - INTEK
11	CS8-407	AS REQD.	HEAD/SILL/JAMB FRAME NOSING (CLAD FIX)	ALUMINUM	NICHOLS-HOMESHIELD
12	CS3-104	-	SASH SPACER BLOCK	WOOD	AT 12" O.C.
13	CS8-102	AS REQD.	FOAM FILLED BULB WEATHERSTRIPPING	POLYPROPYLENE	AT EACH FRAME MEMBER - AMESBURY

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

*JUN 05 2001*

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE **JUN 28 2001**  
BY *Muhammad Hussain*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *01-0522.05*

*afc*  
AL-FAROOQ CORPORATION  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
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no.	date	description

date: 04-25-01  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W01-22**  
sheet 9 of 10

SIDE BY SIDE WINDOWS		
WINDOW DIMENSIONS		DESIGN LOAD CAPACITY
W - IN.	L - IN.	P MAX. -PSF
27	36	200.0
30		200.0
33		200.0
36		200.0
39		200.0
42		200.0
45		200.0
48		200.0
27	42	199.0
30		183.2
33		173.3
36		167.9
39		166.2
42		166.2
45		166.2
48		166.2
27	48	162.8
30		149.3
33		140.2
36		134.3
39		131.1
42		130.0
45		130.0
48		130.0
27	54	137.8
30		125.9
33		117.7
36		111.9
39		108.2
42		106.1
45		105.4
48		105.4
27	60	119.4
30		108.9
33		101.4
36		96.0
39		92.1
42		89.6
45		88.1
48		87.6
27	66	105.4
30		96.0
33		89.1
36		84.0
39		80.2
42		77.5
45		75.7
48		74.6
27	72	94.3
30		85.7
33		79.4
36		74.6
39		71.0
42		68.3
45		66.3
48		65.0

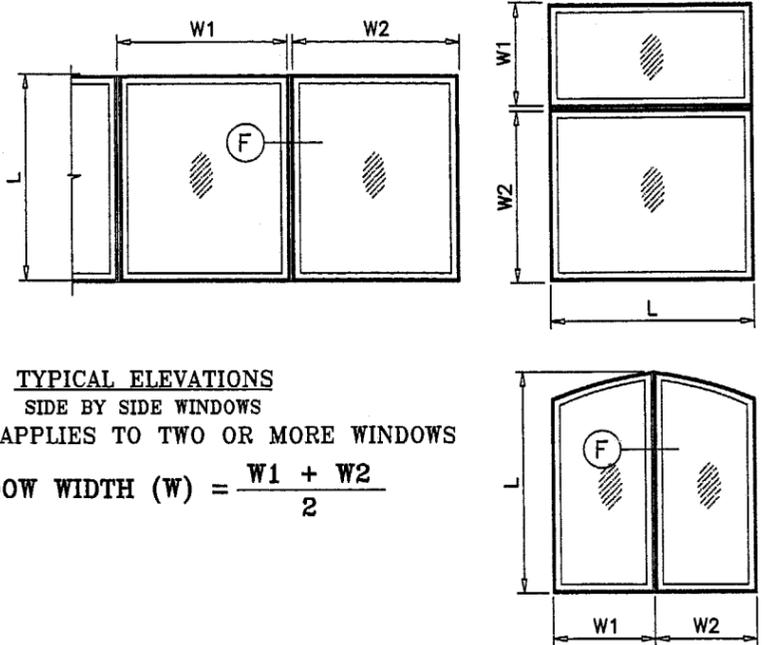
**NOTE:**

CHART SHOWS SIDE BY SIDE MULLION CAPACITY ONLY. WINDOWS MUST BE REVIEWED SEPARATELY. FOR FIXED WINDOWS SEE PREVIOUS PAGES OF THIS NOA. FOR CASMT/AWNG. WINDOWS SEE CORRESPONDING NOA.

**SIDE BY SIDE WINDOWS OPTIONS**

SIDE BY SIDE APPLIES TO ANY COMBINATION OF FIXED AND CASEMENT/AWNING WINDOWS IN MODULES OF TWO OR MORE WINDOWS.

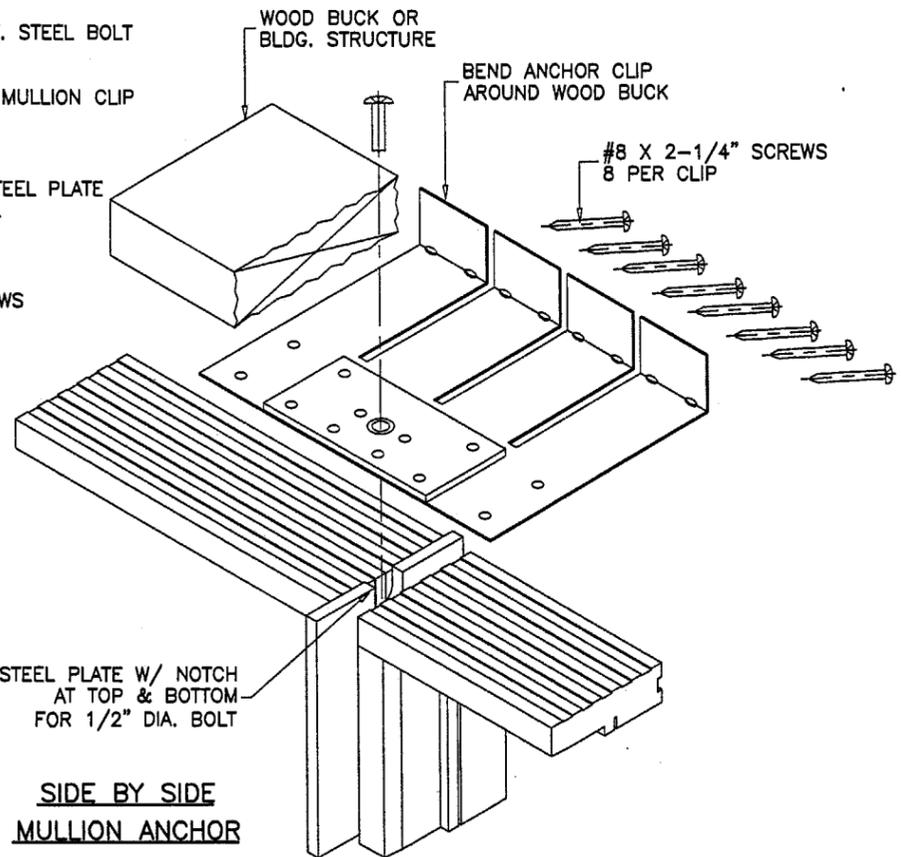
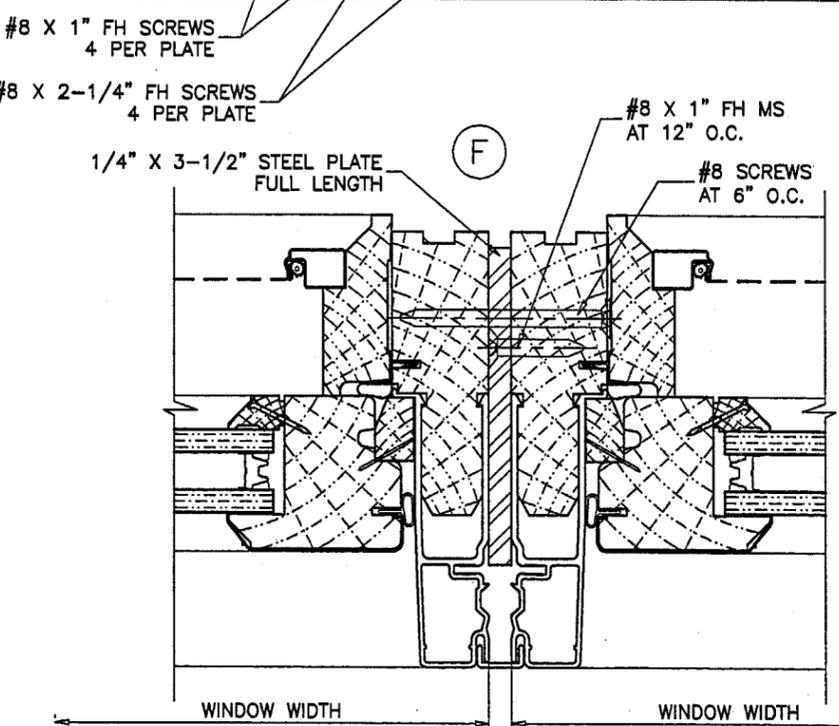
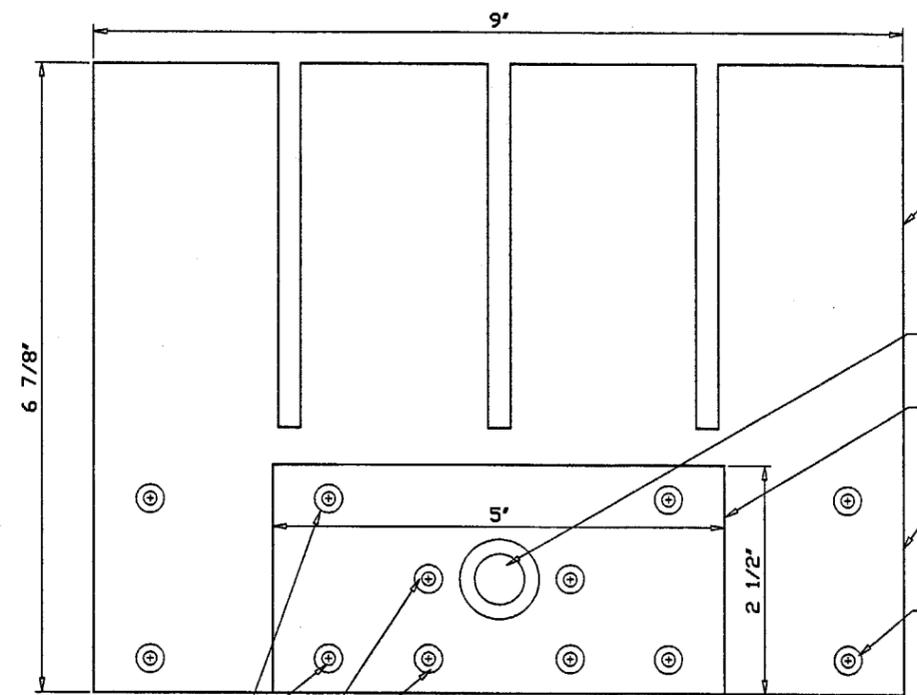
FOR SIDE BY SIDE APPLICATION COMBINING FIXED WINDOWS WITH CASEMENT OR AWNING WINDOWS SEE THEIR CORRESPONDING NOA'S.



**TYPICAL ELEVATIONS**

SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

$$\text{AVG. WINDOW WIDTH (W)} = \frac{W1 + W2}{2}$$



**SIDE BY SIDE MULLION ANCHOR**

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

*JUN 05 2001*

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE **JUN 28 2001**  
BY *Maunib*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. *01-0522.05*

**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\W01-22KK

ULTRA, HERITAGE WOOD & CLAD FIXED WINDOW  
**Kolbe & Kolbe Millwork Co. Inc.**  
1323 SOUTH 11TH AVE.  
WAUSAU, WISCONSIN 54401  
TEL (715) 742-5666 FAX (715) 847-0646

revisions:	no	date	by	description

date: 04-25-01  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:   
drawing no. **W01-22**  
sheet 10 of 10