



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 Casement 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.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 01-0522.07
EXPIRES: 06/28/2006

**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.: 01-0522.07

APPROVED : JUN 28 2001

EXPIRES : JUN 28 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves a wood casement 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 Casement Window and its components shall be constructed in strict compliance with the following documents: Drawing No **W01-05**, titled "Ultra, Heritage Wood & Clad Casement Window" Sheets 1 through 9 of 9, dated 02/02/01, 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

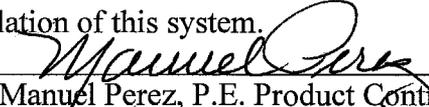
- 4.1 The aluminum awning window and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters): to determine whether the installation requires a hurricane protection system or not, see corresponding table in approved drawing.

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.: 01-0522.07

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

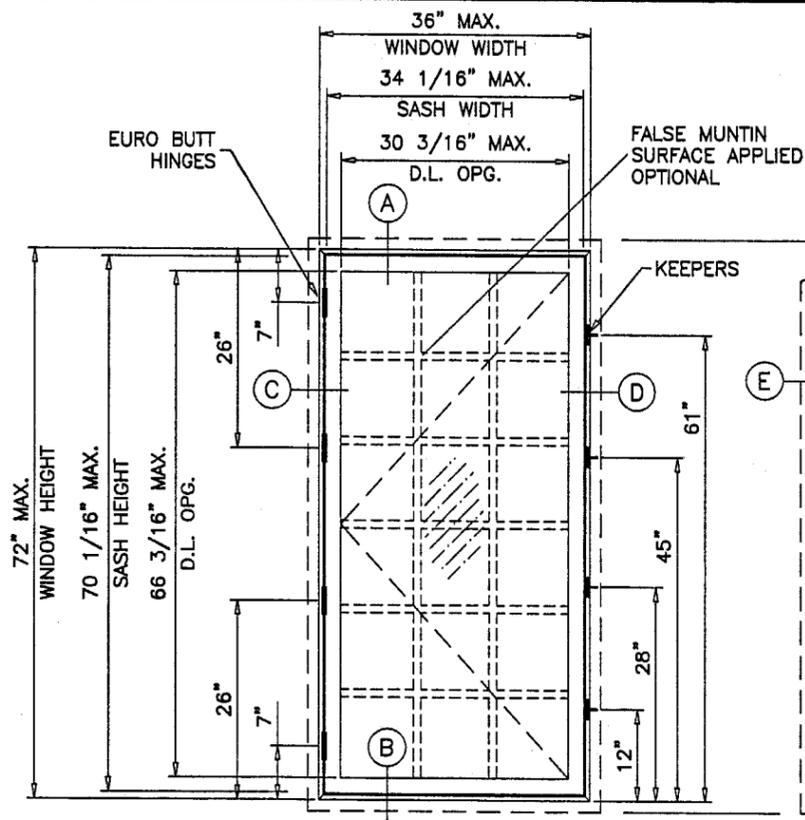
KOLBE & KOLBE MILLWORK CO. INC.

1323 SOUTH 11TH AVE.
WAUSAU, WISCONSIN 54401

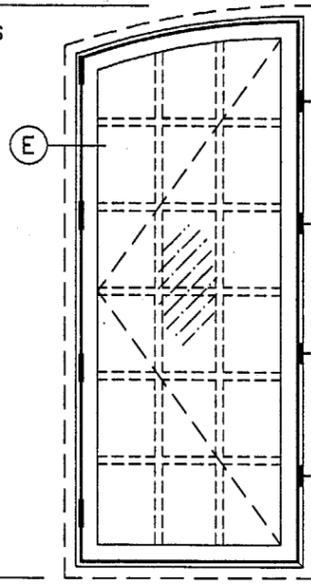


AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W01-05KK

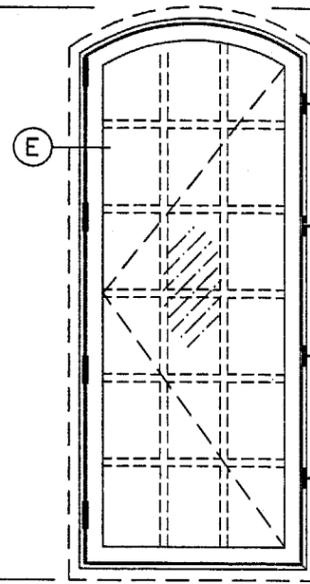
ULTRA, HERITAGE WOOD & CLAD CASEMENT WDW.
Kolbe & Kolbe Millwork Co. Inc.
1323 SOUTH 11TH AVE.
WAUSAU, WISCONSIN 54401
TEL (715) 742-5666 FAX (715) 847-0646



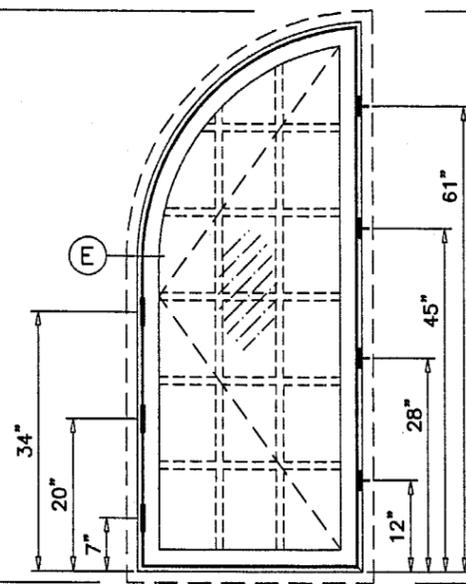
OPTION 1



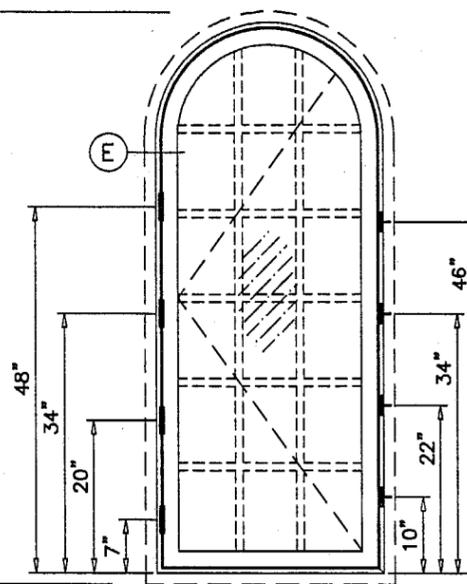
OPTION 2



OPTION 3



OPTION 4



OPTION 5

FOR OPTIONS 1,2 & 3

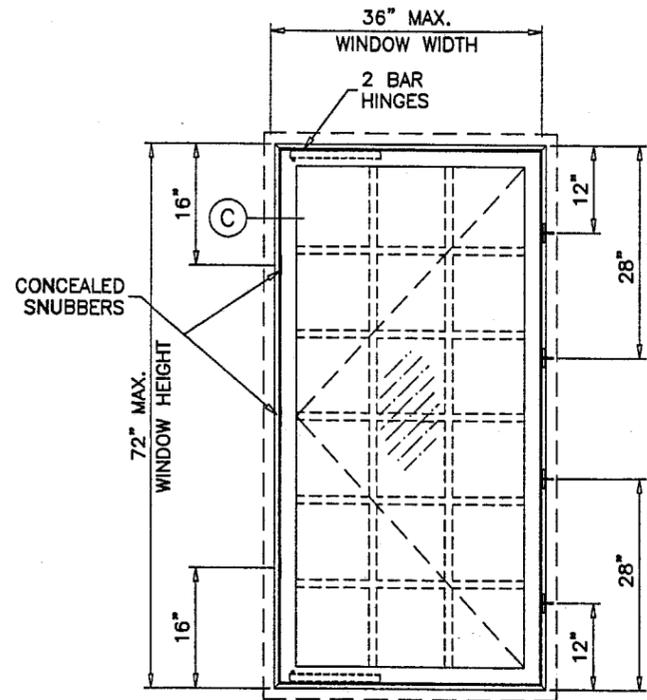
| MAX. WINDOW HEIGHT | NO. OF HINGES | NO. OF KEEPERS |
|--------------------|---------------|----------------|
| 33" | 2 | 2 |
| 53" | 3 | 3 |
| 72" | 4 | 4 |

FOR OPTION 4

| MAX. WINDOW HEIGHT | NO. OF HINGES | NO. OF KEEPERS |
|--------------------|---------------|----------------|
| 33" | 2 | 2 |
| 53" | 3 | 3 |
| 72" | 3 | 4 |

FOR OPTION 5

| MAX. WINDOW HEIGHT | NO. OF HINGES | NO. OF KEEPERS |
|--------------------|---------------|----------------|
| 26" | 2 | 2 |
| 40" | 3 | 3 |
| 72" | 4 | 4 |



OPTION 6

FOR OPTION 6

| MAX. WINDOW HEIGHT | NO. OF HINGES | NO. OF KEEPERS |
|--------------------|---------------|----------------|
| 33" | 2 | 2 |
| 53" | 2 | 3 |
| 72" | 2 | 4 |

SERIES ULTRA, HERITAGE WOOD & CLAD CASEMENT 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 +65.0 & -65.0 PSF FOR ALL STANDARD SIZES (36" X 72" MAX.)

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 3 AND 4 OF THIS SUBMITTAL.

SIDE BY SIDE COMBINATION OF CASEMENT/CASEMENT OR CASEMENT/FIXED TO BE RATED FOR IMPACT OR NON-IMPACT APPLICATIONS. DESIGN LOAD RATING FOR MULLIONS TO BE AS PER SHEET 9 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

Handwritten signature and date: JUN 05 2001

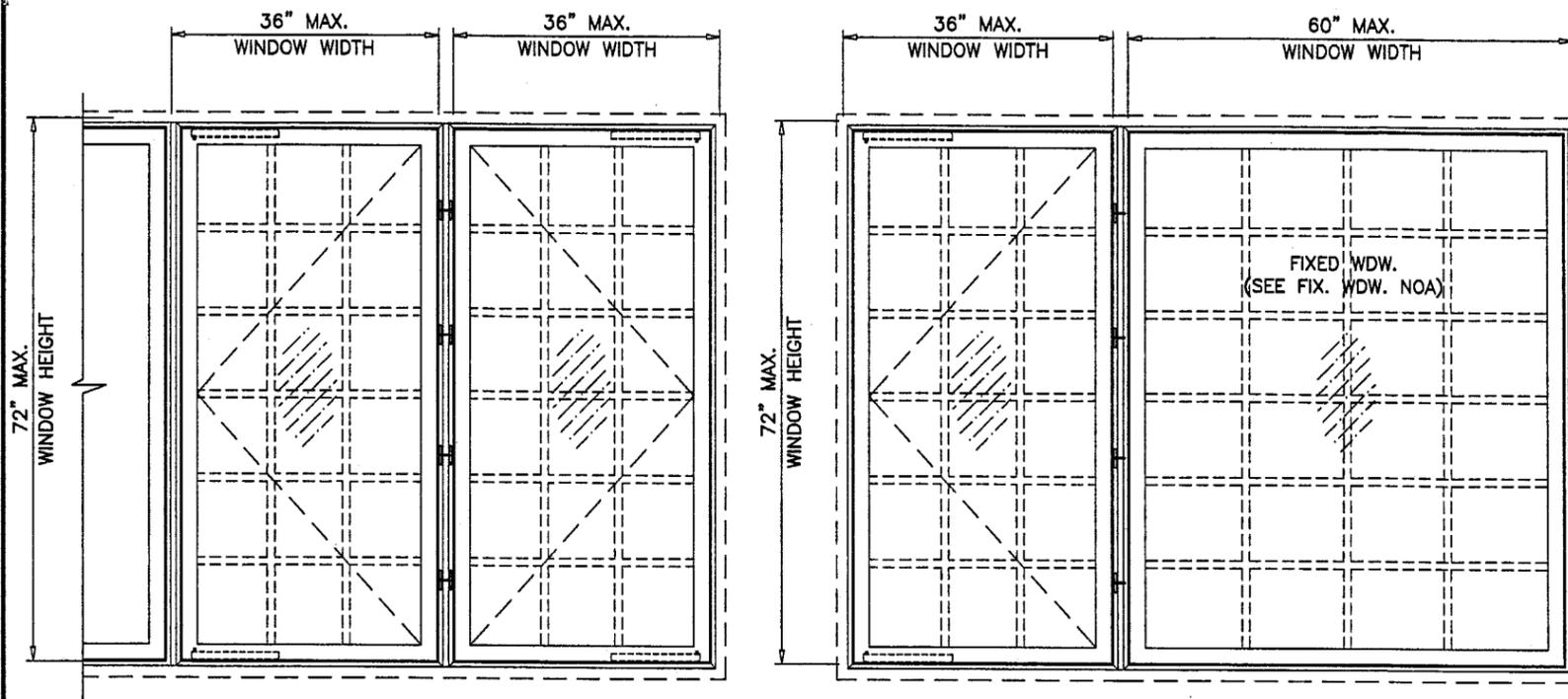
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE **JUN 28 2001**
BY *Handwritten signature*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-0522.07**

revisions:

| no | date | by | description |
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date: 02-02-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

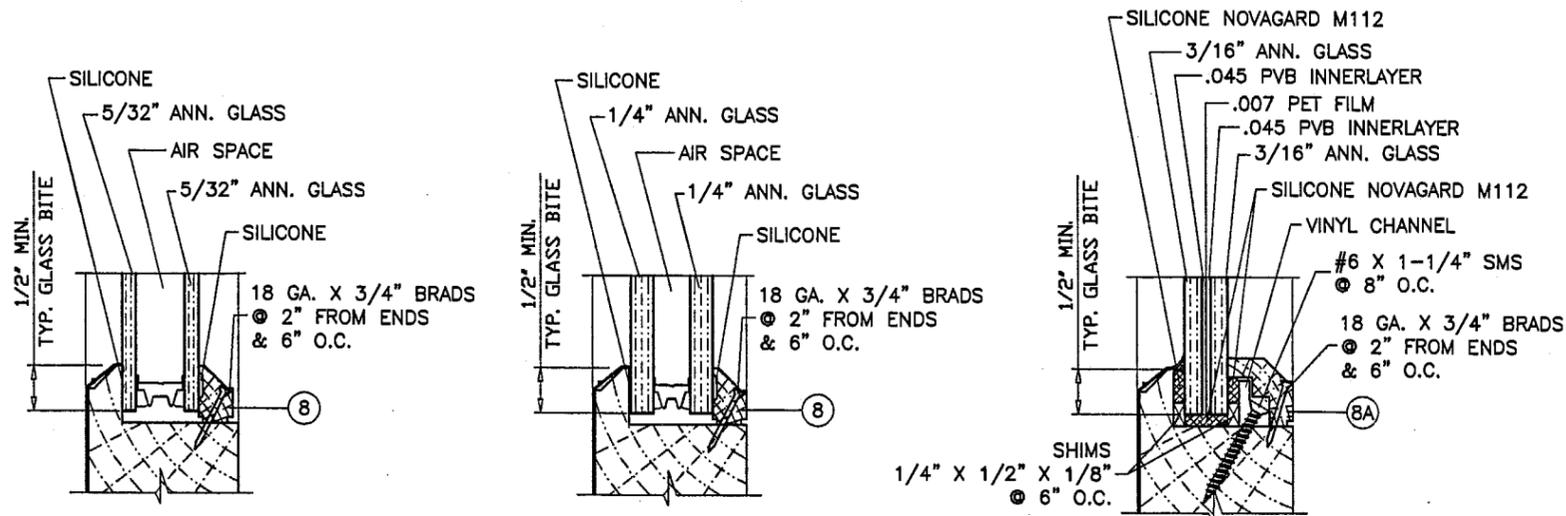
drawing no.
W01-05
sheet 1 of 9



SIDE BY SIDE WINDOWS OPTIONS

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

WINDOWS FOR SIDE BY SIDE JOINING MAY BE OF SHAPE OPTIONS 1, 2, 4 OR 6.



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

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

GLASS OPTIONS

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

TYPICAL ANCHOR OPTIONS:

- ALL ANCHORS TO BE AT 7" FROM HEAD/SILL/JAMB CORNERS AND 14" O.C. MAX. SPACING.
- A- # 12 SMS INTO 2BY WOOD BUCKS OR WOOD STRUCTURE 1-3/8" MIN. PENETRATION INTO WOOD
 - B- 3/16" Ø 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

OPERATOR OPTIONS:

TRUTH SINGLE OR DUAL ARM OPERATOR LOCATED IN SILL.

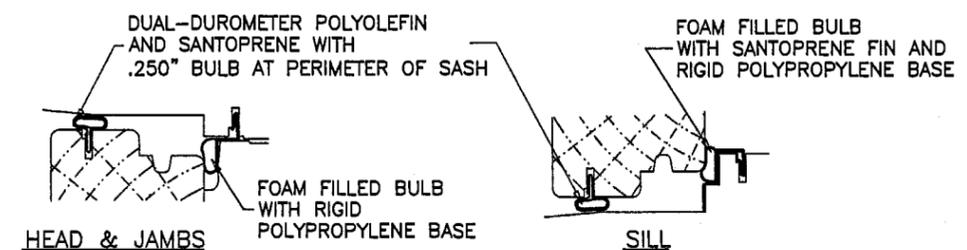
LOCKING OPTIONS:

LOCKING MECHANISMS BY TRUTH HARDWARE MULTI POINT LOCK ACTUATOR AT 6" FROM SILL LOCKING POINTS AS PER DIAGRAMS AND CHARTS.

HINGE OPTIONS:

- A- 2 BAR HINGES BY 'ALL METAL STAMPING INC.' OR 'TRUTH HARDWARE'
- B- EXTRUDED ALUMINUM EURO BUTT HINGES BY 'MELRON' LOCATED AS PER DIAGRAMS AND CHARTS.

WEATHER STRIPPING:



SEALANTS:

SEE GLAZING DETAILS AND CORNER CONSTRUCTION DETAILS.

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

[Signature]
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. 01-0522.07

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| revisions: | no | date | by | description |
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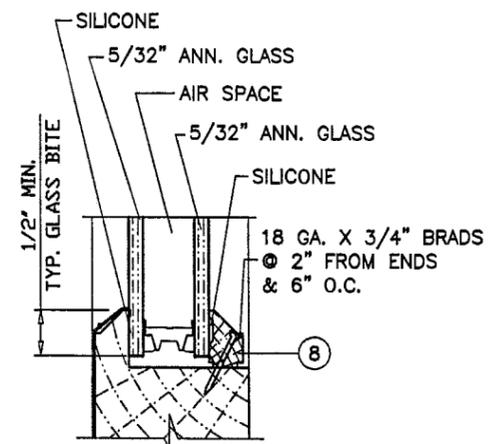
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dr. by: HAMID
chk. by:
drawing no. **W01-05**
sheet 2 of 9

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 | | | | | |
|-------------------|--------|------------------------|----------|------------------|----------|------------------|----------|
| | | ANCHORS TYPE 'A' | | ANCHORS TYPE 'B' | | ANCHORS TYPE 'C' | |
| WIDTH | HEIGHT | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 16' | 16' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 24' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 26' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 30' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 36' | | 65.0 | 195.0 | 65.0 | 195.0 | 65.0 | 195.0 |
| 16' | 20' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 24' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 26' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 30' | | 65.0 | 187.2 | 65.0 | 187.2 | 65.0 | 187.2 |
| 36' | | 65.0 | 156.0 | 65.0 | 156.0 | 65.0 | 156.0 |
| 16' | 24' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 24' | | 65.0 | 195.0 | 65.0 | 195.0 | 65.0 | 195.0 |
| 26' | | 65.0 | 180.0 | 65.0 | 180.0 | 65.0 | 180.0 |
| 30' | | 65.0 | 156.0 | 65.0 | 156.0 | 65.0 | 156.0 |
| 36' | | 65.0 | 130.0 | 65.0 | 130.0 | 65.0 | 130.0 |
| 16' | 30' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 187.2 | 65.0 | 187.2 | 65.0 | 187.2 |
| 24' | | 65.0 | 156.0 | 65.0 | 156.0 | 65.0 | 156.0 |
| 26' | | 65.0 | 144.0 | 65.0 | 144.0 | 65.0 | 144.0 |
| 30' | | 65.0 | 124.8 | 65.0 | 124.8 | 65.0 | 124.8 |
| 36' | | 65.0 | 104.0 | 65.0 | 104.0 | 65.0 | 104.0 |
| 16' | 36' | 65.0 | 195.0 | 65.0 | 195.0 | 65.0 | 195.0 |
| 20' | | 65.0 | 156.0 | 65.0 | 156.0 | 65.0 | 156.0 |
| 24' | | 65.0 | 130.0 | 65.0 | 130.0 | 65.0 | 130.0 |
| 26' | | 65.0 | 120.0 | 65.0 | 120.0 | 65.0 | 120.0 |
| 30' | | 65.0 | 104.0 | 65.0 | 104.0 | 65.0 | 104.0 |
| 36' | | 65.0 | 86.7 | 65.0 | 86.7 | 65.0 | 86.7 |
| 16' | 42' | 65.0 | 163.0 | 65.0 | 163.0 | 65.0 | 163.0 |
| 20' | | 65.0 | 133.7 | 65.0 | 133.7 | 65.0 | 133.7 |
| 24' | | 65.0 | 111.4 | 65.0 | 111.4 | 65.0 | 111.4 |
| 26' | | 65.0 | 102.9 | 65.0 | 102.9 | 65.0 | 102.9 |
| 30' | | 65.0 | 89.1 | 65.0 | 89.1 | 65.0 | 89.1 |
| 36' | | 65.0 | 74.3 | 65.0 | 74.3 | 65.0 | 74.3 |
| 16' | 48' | 65.0 | 120.0 | 65.0 | 120.0 | 65.0 | 120.0 |
| 20' | | 65.0 | 98.5 | 65.0 | 98.5 | 65.0 | 98.5 |
| 24' | | 65.0 | 84.8 | 65.0 | 84.8 | 65.0 | 84.8 |
| 26' | | 65.0 | 79.8 | 65.0 | 79.8 | 65.0 | 79.8 |
| 30' | | 65.0 | 72.2 | 65.0 | 72.2 | 65.0 | 72.2 |
| 36' | | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 |
| 16' | 54' | 65.0 | 83.5 | 65.0 | 83.5 | 65.0 | 83.5 |
| 20' | | 65.0 | 68.2 | 65.0 | 68.2 | 65.0 | 68.2 |
| 24' | | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 |
| 26' | | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 |
| 30' | | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |

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 | | | | | |
|-------------------|--------|------------------------|----------|------------------|----------|------------------|----------|
| | | ANCHORS TYPE 'A' | | ANCHORS TYPE 'B' | | ANCHORS TYPE 'C' | |
| WIDTH | HEIGHT | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 16' | 60' | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 |
| 20' | | 49.2 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2 |
| 24' | | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 |
| 26' | | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 |
| 16' | 66' | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 |
| 20' | | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 |
| 24' | | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 |
| 26' | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | |
| 16' | 72' | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 |
| 20' | | 28.1 | 28.1 | 28.1 | 28.1 | 28.1 | 28.1 |
| 24' | | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 |



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

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557

[Signature]
JUN 05 2001

APPROVED AS COMPLYING WITH THE
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DATE JUN 28 2001
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| revisions: | no | date | by | description |
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date: 02-02-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

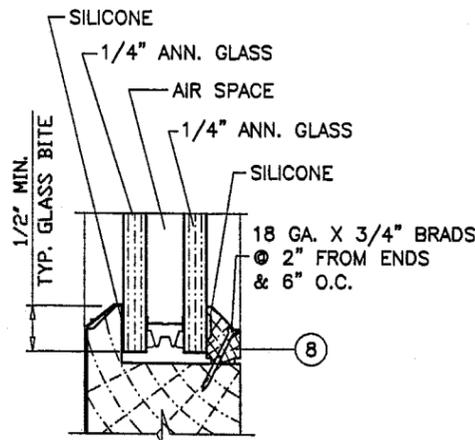
drawing no.
W01-05
sheet 3 of 9

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 ANN. GLASS | | | | | |
|-------------------|--------|-----------------------|----------|------------------|----------|------------------|----------|
| | | ANCHORS TYPE 'A' | | ANCHORS TYPE 'B' | | ANCHORS TYPE 'C' | |
| WIDTH | HEIGHT | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 16' | 16' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 24' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 26' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 30' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 36' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 16' | 20' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 24' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 26' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 30' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 175.2 |
| 36' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 127.4 |
| 16' | 24' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 24' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 26' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 184.4 |
| 30' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 184.4 |
| 36' | | 65.0 | 180.0 | 65.0 | 195.0 | 65.0 | 159.3 |
| 16' | 30' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 24' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 26' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 30' | | 65.0 | 187.2 | 65.0 | 187.2 | 65.0 | 175.2 |
| 36' | | 65.0 | 144.0 | 65.0 | 156.0 | 65.0 | 127.4 |
| 16' | 36' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 200.0 |
| 20' | | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 191.1 |
| 24' | | 65.0 | 180.0 | 65.0 | 195.0 | 65.0 | 159.3 |
| 26' | | 65.0 | 166.2 | 65.0 | 180.0 | 65.0 | 147.0 |
| 30' | | 65.0 | 144.0 | 65.0 | 156.0 | 65.0 | 127.4 |
| 36' | | 65.0 | 120.0 | 65.0 | 130.0 | 65.0 | 106.2 |
| 16' | 42' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 187.7 |
| 20' | | 65.0 | 169.7 | 65.0 | 198.5 | 65.0 | 150.2 |
| 24' | | 65.0 | 141.4 | 65.0 | 165.4 | 65.0 | 125.1 |
| 26' | | 65.0 | 130.5 | 65.0 | 152.7 | 65.0 | 115.5 |
| 30' | | 65.0 | 113.1 | 65.0 | 132.3 | 65.0 | 100.1 |
| 36' | | 65.0 | 94.3 | 65.0 | 110.3 | 65.0 | 83.4 |
| 16' | 48' | 65.0 | 200.0 | 65.0 | 200.0 | 65.0 | 187.7 |
| 20' | | 65.0 | 169.7 | 65.0 | 175.5 | 65.0 | 150.2 |
| 24' | | 65.0 | 141.4 | 65.0 | 146.3 | 65.0 | 125.1 |
| 26' | | 65.0 | 130.5 | 65.0 | 135.0 | 65.0 | 115.5 |
| 30' | | 65.0 | 113.1 | 65.0 | 117.0 | 65.0 | 100.1 |
| 36' | | 65.0 | 94.3 | 65.0 | 97.5 | 65.0 | 83.4 |
| 16' | 54' | 65.0 | 195.0 | 65.0 | 195.0 | 65.0 | 187.7 |
| 20' | | 65.0 | 156.0 | 65.0 | 156.0 | 65.0 | 150.2 |
| 24' | | 65.0 | 130.0 | 65.0 | 130.0 | 65.0 | 125.1 |
| 26' | | 65.0 | 120.0 | 65.0 | 120.0 | 65.0 | 115.5 |
| 30' | | 65.0 | 104.0 | 65.0 | 104.0 | 65.0 | 100.1 |
| 36' | | 65.0 | 86.7 | 65.0 | 86.7 | 65.0 | 83.4 |

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 ANN. GLASS | | | | | |
|-------------------|--------|-----------------------|----------|------------------|----------|------------------|----------|
| | | ANCHORS TYPE 'A' | | ANCHORS TYPE 'B' | | ANCHORS TYPE 'C' | |
| WIDTH | HEIGHT | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 16' | 60' | 65.0 | 175.5 | 65.0 | 175.5 | 65.0 | 175.5 |
| 20' | | 65.0 | 140.4 | 65.0 | 140.4 | 65.0 | 140.4 |
| 24' | | 65.0 | 117.0 | 65.0 | 117.0 | 65.0 | 117.0 |
| 26' | | 65.0 | 108.0 | 65.0 | 108.0 | 65.0 | 108.0 |
| 30' | | 65.0 | 93.6 | 65.0 | 93.6 | 65.0 | 93.6 |
| 36' | | 65.0 | 78.0 | 65.0 | 78.0 | 65.0 | 78.0 |
| 16' | 66' | 65.0 | 159.5 | 65.0 | 159.5 | 65.0 | 159.5 |
| 20' | | 65.0 | 127.6 | 65.0 | 127.6 | 65.0 | 127.6 |
| 24' | | 65.0 | 106.4 | 65.0 | 106.4 | 65.0 | 106.4 |
| 26' | | 65.0 | 98.2 | 65.0 | 98.2 | 65.0 | 98.2 |
| 30' | | 65.0 | 85.1 | 65.0 | 85.1 | 65.0 | 85.1 |
| 36' | | 65.0 | 70.9 | 65.0 | 70.9 | 65.0 | 70.9 |
| 16' | 72' | 65.0 | 134.6 | 65.0 | 134.6 | 65.0 | 134.6 |
| 20' | | 65.0 | 108.8 | 65.0 | 108.8 | 65.0 | 108.8 |
| 24' | | 65.0 | 92.0 | 65.0 | 92.0 | 65.0 | 92.0 |
| 26' | | 65.0 | 85.6 | 65.0 | 85.6 | 65.0 | 85.6 |
| 30' | | 65.0 | 75.5 | 65.0 | 75.5 | 65.0 | 75.5 |
| 36' | | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 |



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

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

Signature
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. 01-0522.07

AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
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| no | date | description |
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chk. by:

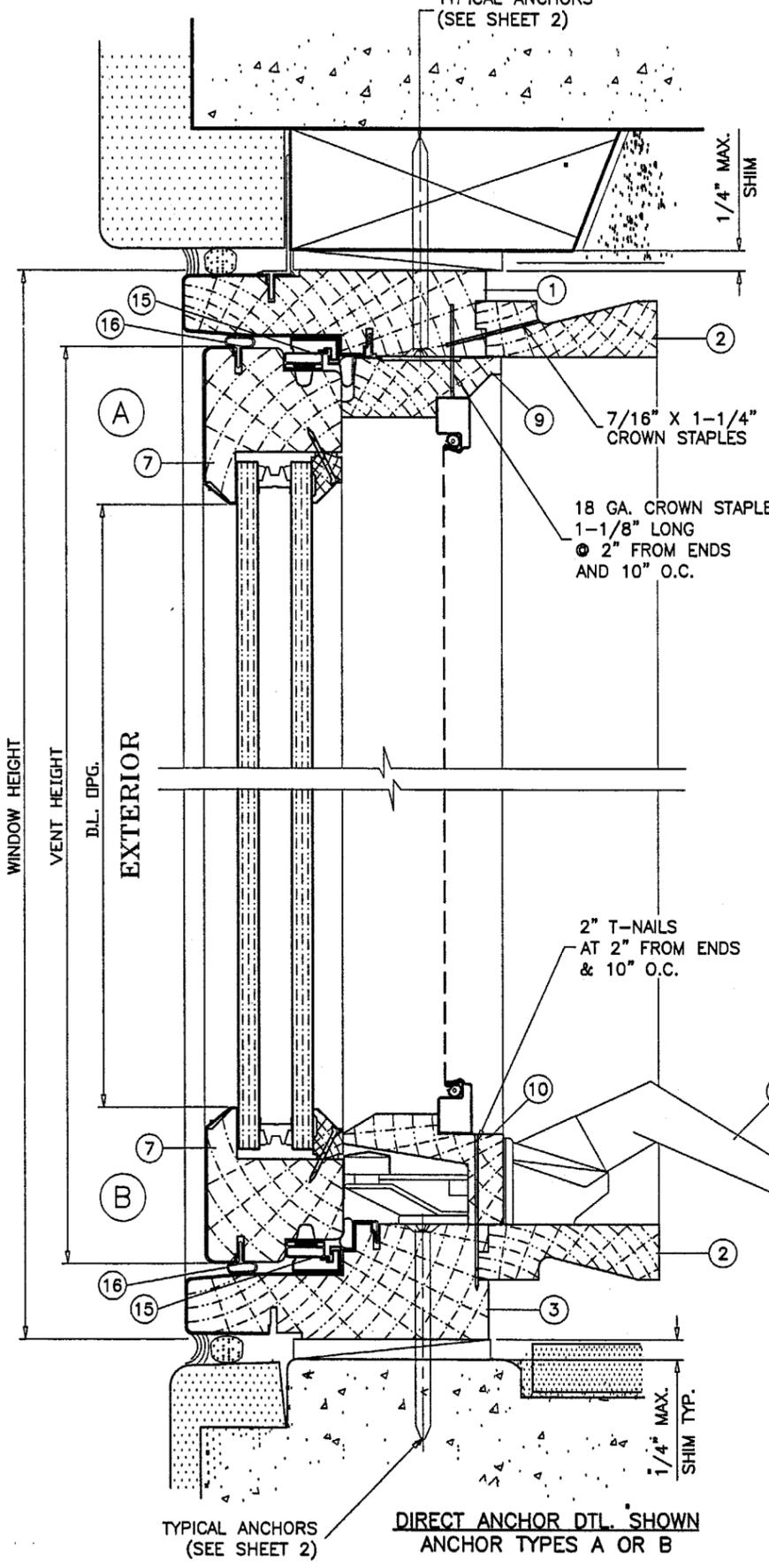
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W01-05
sheet 4 of 9

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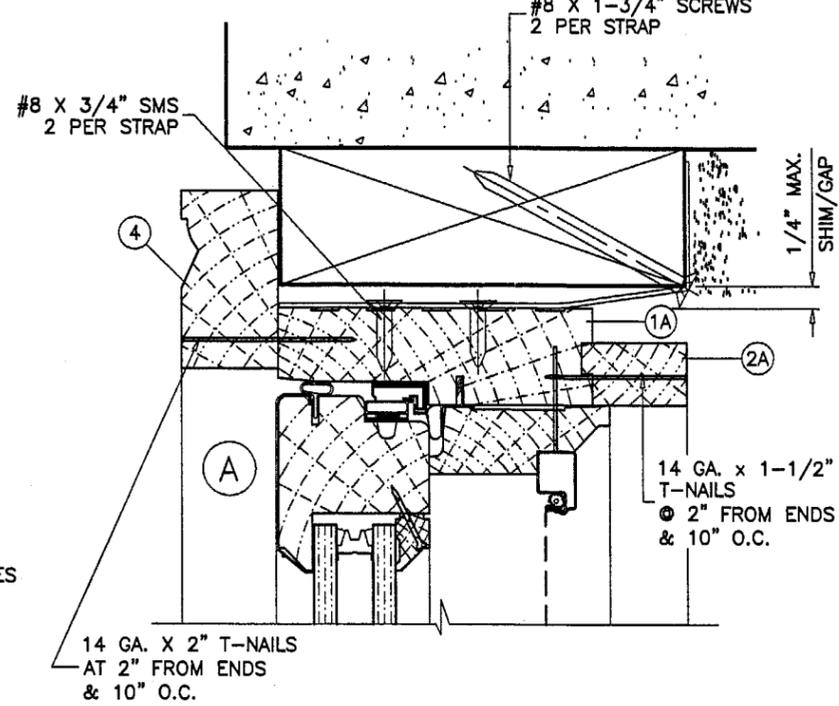
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 chk. by:

drawing no.
W01-05
 sheet 5 of 9

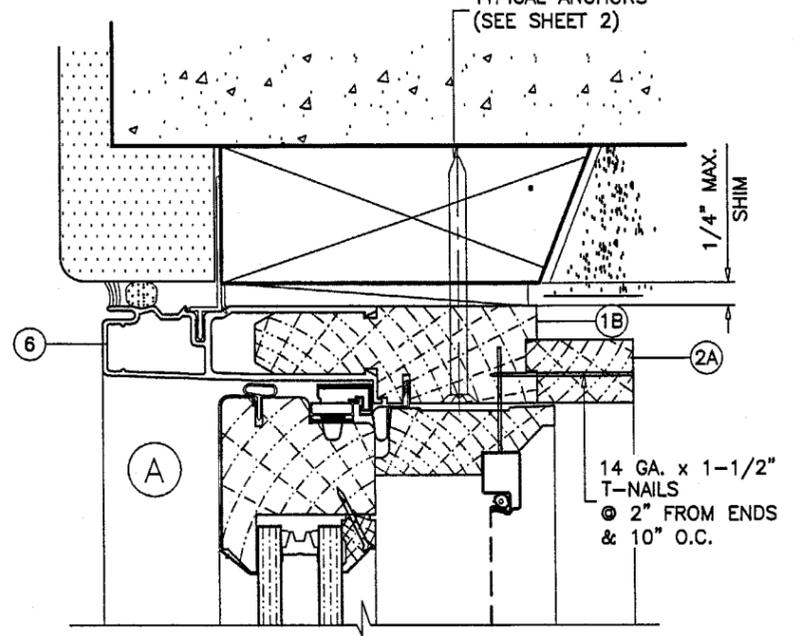
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 ANCHOR TYPES A OR B



STRAP ANCHOR DTL. SHOWN
 ANCHOR TYPE C

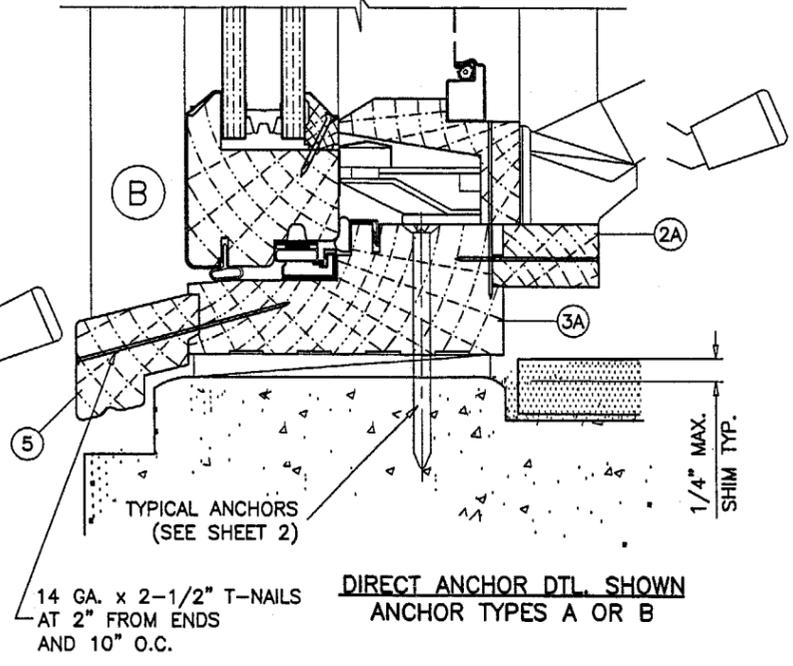
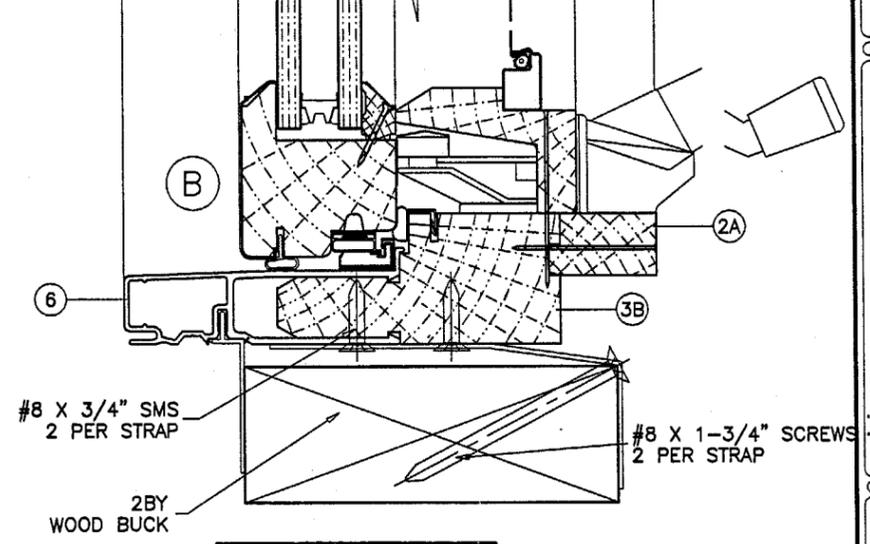


DIRECT ANCHOR DTL. SHOWN
 ANCHOR TYPES A OR B



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



DIRECT ANCHOR DTL. SHOWN
 ANCHOR TYPES A OR B

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

[Signature]
 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. 01-0522.07

| revisions: | no | date | by | description |
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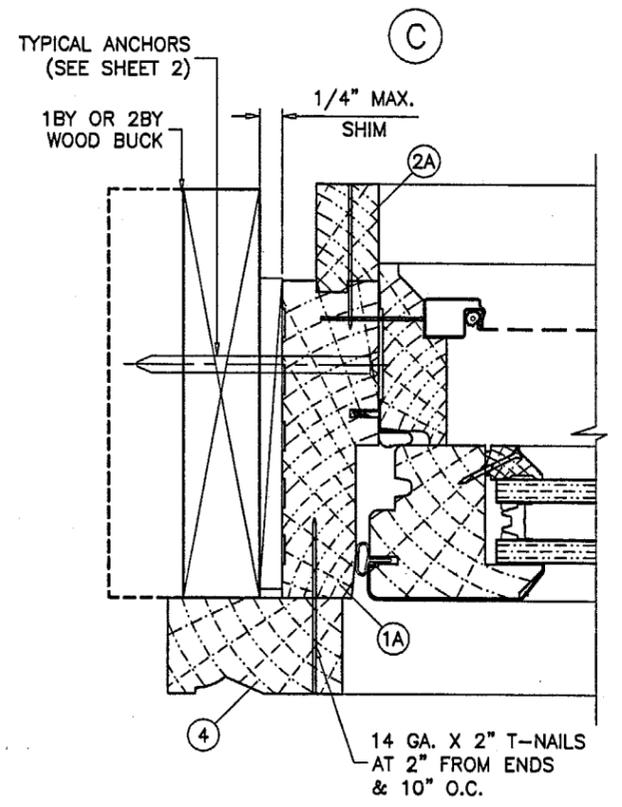
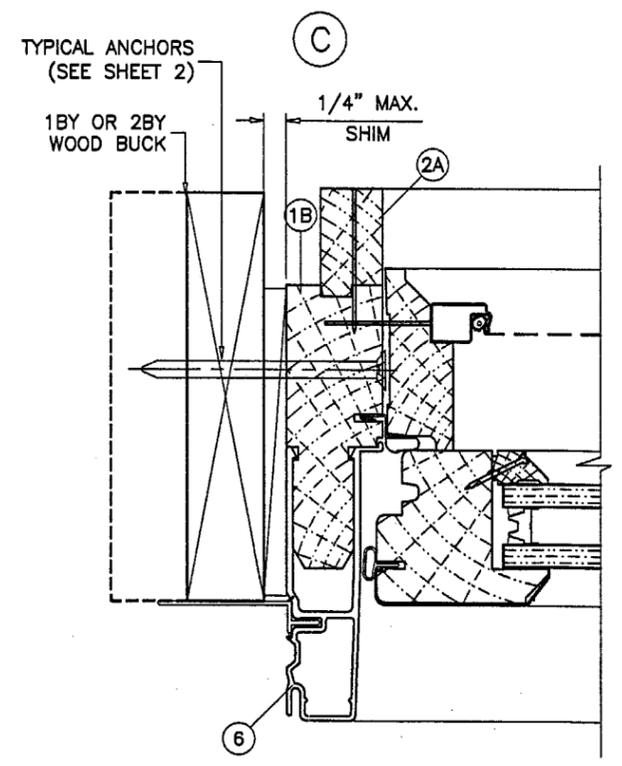
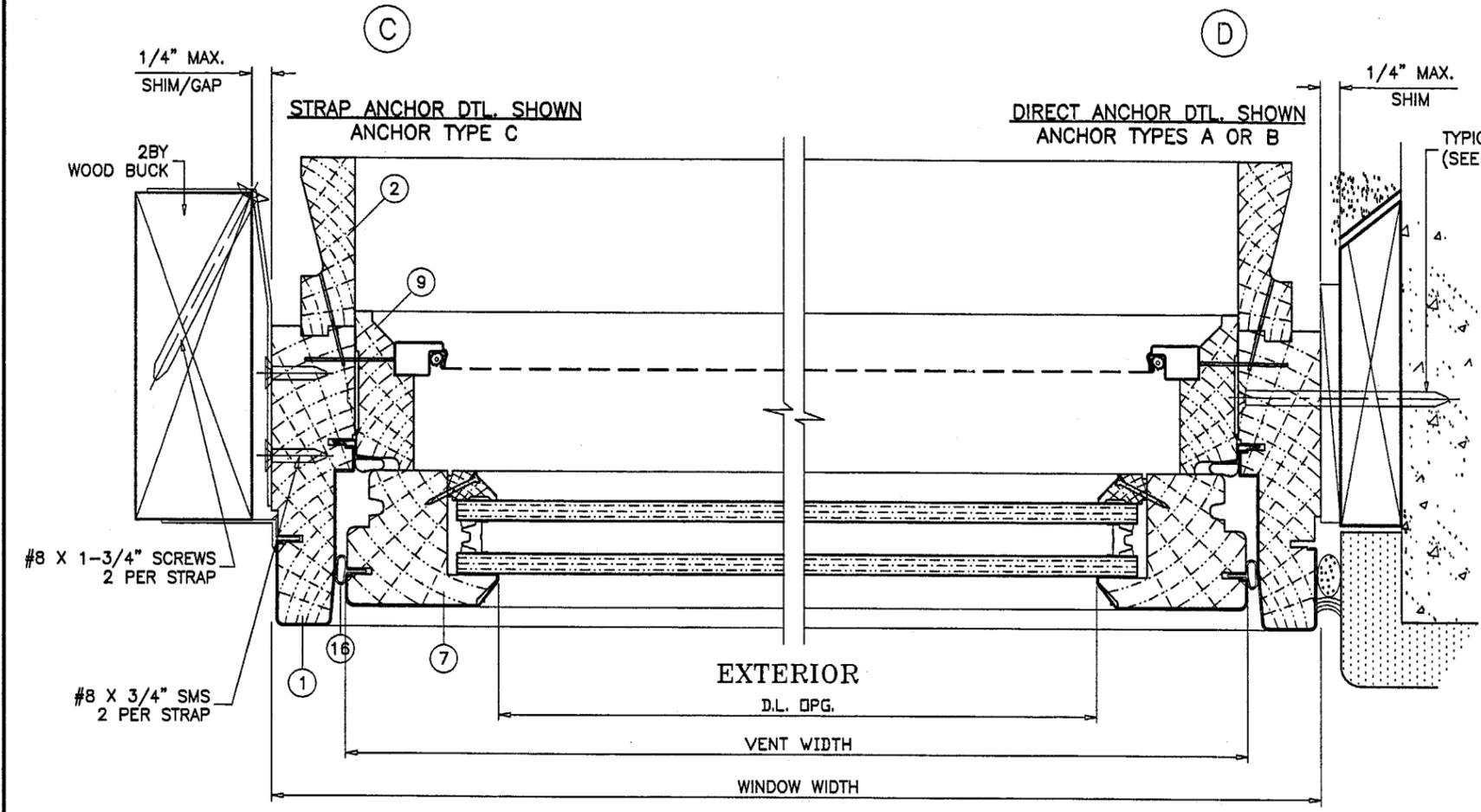
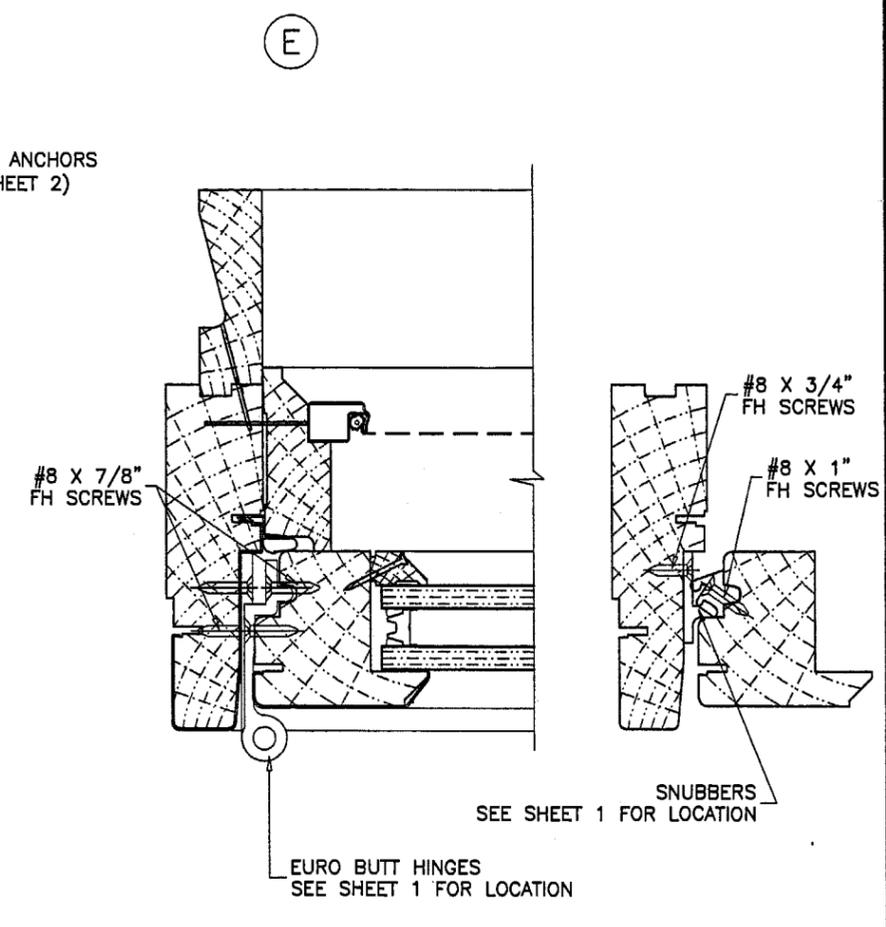
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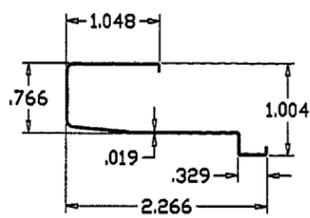
drawing no.
W01-05
 sheet 6 of 9

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

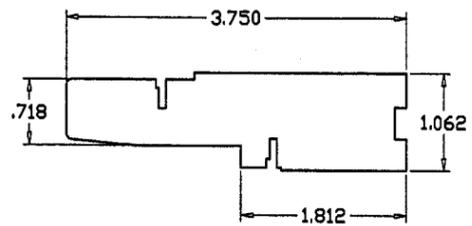
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 BY *Maunul*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
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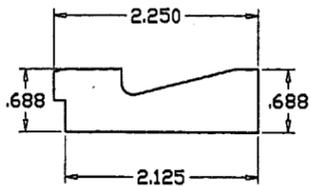




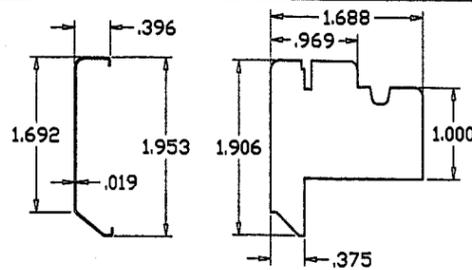
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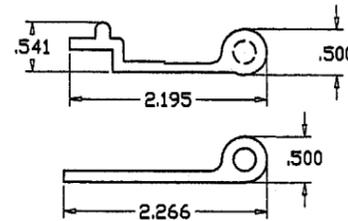
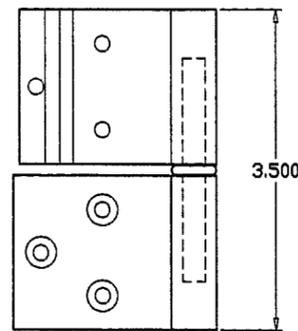
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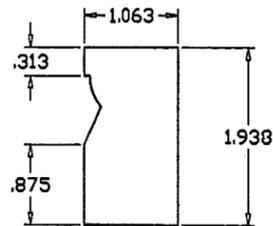
HEAD/SIDE STOP



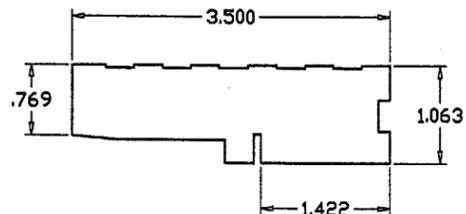
ALUM CLADDING SASH RAIL/STILE



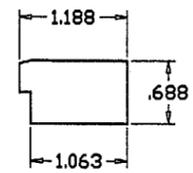
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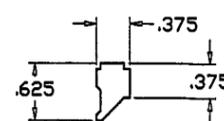
FLANGE



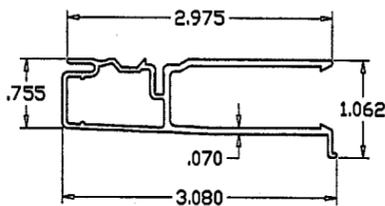
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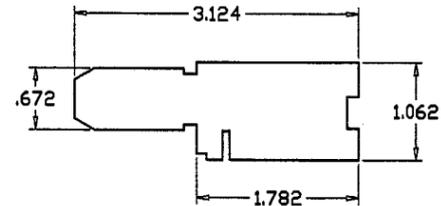
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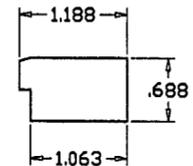
GLASS STOP (INSUL. GLASS)



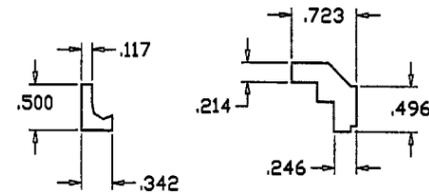
ALUMINUM NOSING



FRAME HEAD/JAMB



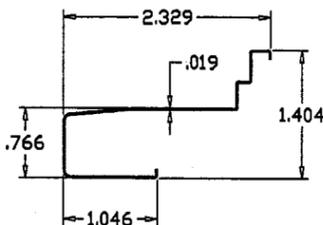
HEAD/SIDE STOP



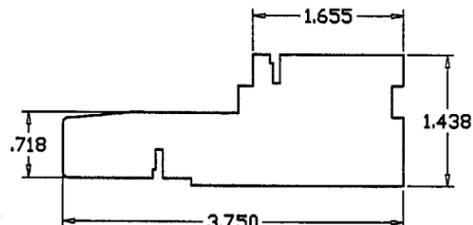
GLASS STOPS (LAM. GLASS)

ALL WOOD TO BE PONDEROSA PINE OR EQUAL

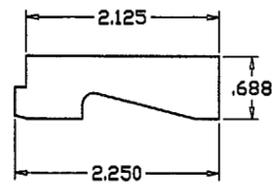
ANY WOOD WITH SPECIFIC GRAVITY OF 0.43 OR MORE SHALL BE DEEMED SUITABLE FOR CONSTRUCTION OF WINDOWS AND WOOD COMPONENTS.



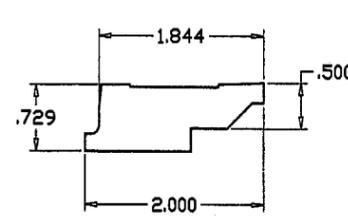
ALUMINUM CLADDING



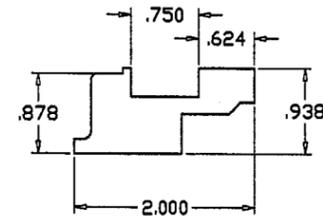
FRAME SILL



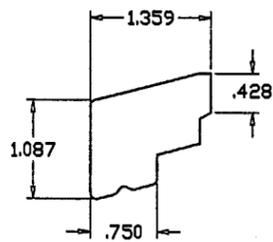
SILL STOP



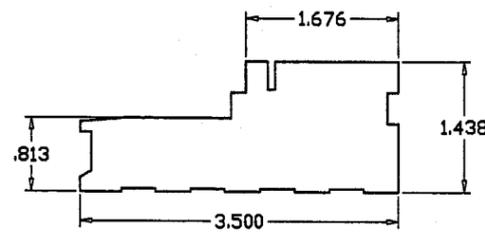
VENT STOP HEAD/JAMB



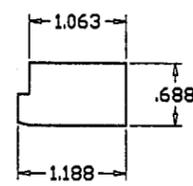
VENT STOP JAMB MULTI POINT HARDWARE



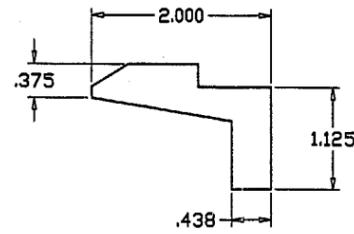
FLANGE



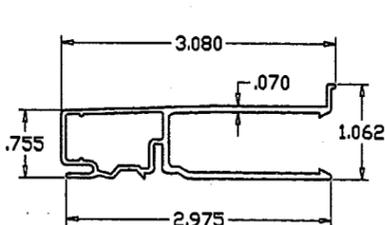
FRAME SILL



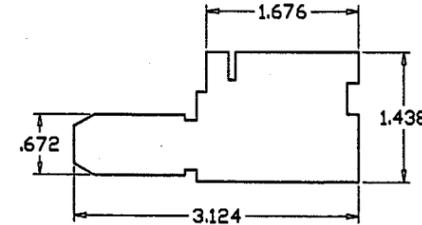
SILL STOP



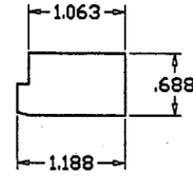
VENT STOP SILL



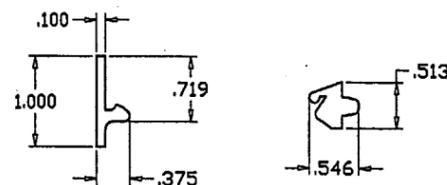
ALUMINUM NOSING



FRAME SILL



SILL STOP



SNUBBERS ZAMAK #3 BRIGHT ZINC PLATED(Z1)

Engr: DR. HUMAYOON 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. 01-0522.07

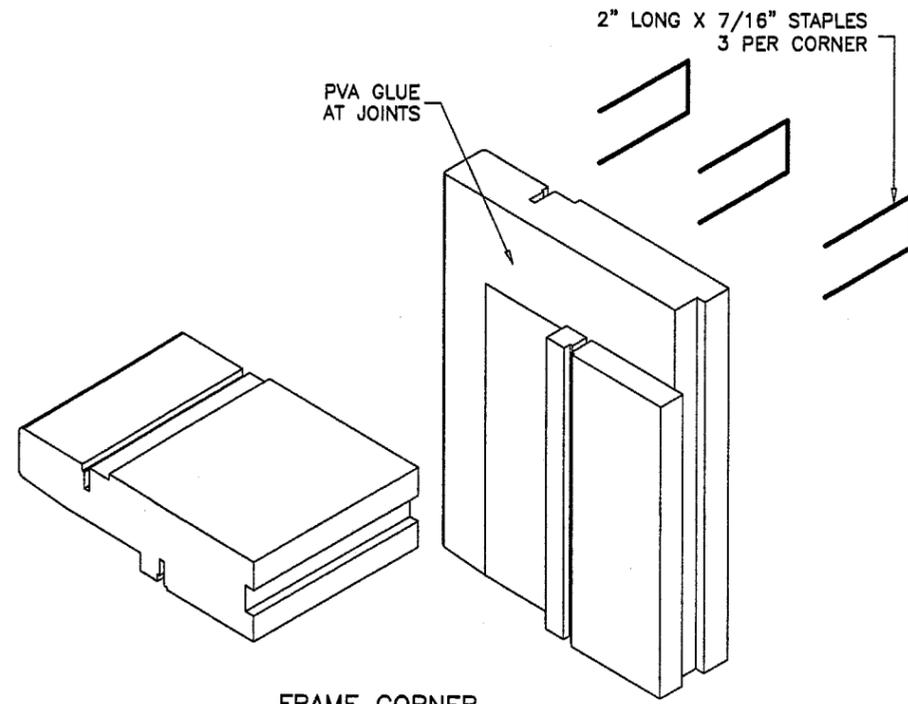
AL-FAROOQ CORPORATION
ENGINEERS, PLANNERS & PRODUCT DESIGN
1235 SW 87 AVE
MIAMI, FLORIDA 33174
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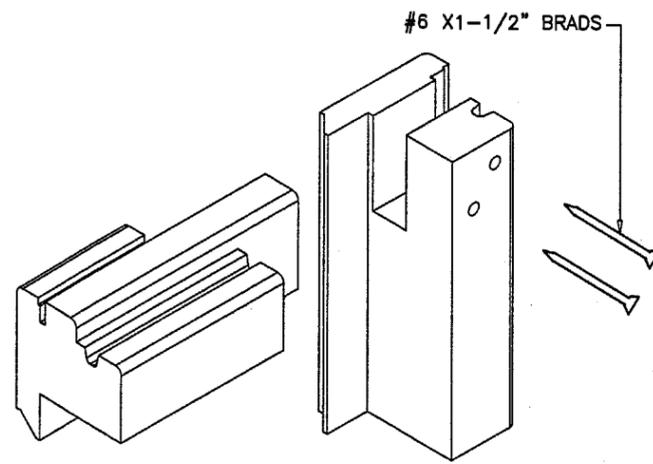
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chk. by:

drawing no. **W01-05**
sheet 7 of 9



FRAME CORNER



SASH CORNER

| ITEM # | PART NO. | QUANTITY | DESCRIPTION | MATERIAL | MANF./SUPPLIER/REMARKS |
|--------|----------|-----------|--|---------------|--------------------------------------|
| 1 | 2030 | AS REQD. | HEAD/JAMB (METAL CLAD CSMT) | WOOD | KOLBE & KOLBE |
| 1A | 2002 | AS REQD. | HEAD/JAMB (WOOD CSMT) | WOOD | KOLBE & KOLBE |
| 1B | 2067 | AS REQD. | HEAD/JAMB (ULTRA CSMT) | 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 CSMT) | WOOD | KOLBE & KOLBE |
| 3A | 2011 | 1 | FRAME SILL (WOOD CSMT) | WOOD | KOLBE & KOLBE |
| 3B | 2072 | 1 | FRAME SILL (ULTRA CSMT) | WOOD | KOLBE & KOLBE |
| 4 | 2802 | AS REQD. | HEAD/JAMB FLANGE (WOOD CSMT) | WOOD | KOLBE & KOLBE |
| 5 | 2857 | 1 | SILL FLANGE (WOOD CSMT) | WOOD | KOLBE & KOLBE |
| 6 | UC8-100 | AS REQD. | HEAD/JAMB/SILL FRAME NOSING (ULTRA CSMT) | 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 | 3/ WDW. | VENT STOP HEAD/JAMB | WOOD | KOLBE & KOLBE |
| 10 | 4064 | 1/ WDW. | VENT STOP SILL | WOOD | KOLBE & KOLBE |
| 11 | CS8-407 | AS REQD. | HEAD/SILL/JAMB FRAME NOSING (CLAD CASMT) | ALUMINUM | NICHOLS-HOMESHIELD |
| 12 | AW8-400 | 1/ SASH | OPERATOR HANDLE | ZINC | TRUTH |
| 13 | CS8-404 | AS REQD. | SNUBBER | ZAMAK #3 | DECO |
| 14 | CS8-405 | 1/ SASH | DUAL ARM ROTO GEAR OPERATOR | STEEL | TRUTH HARDWARE |
| 15 | CS8-411 | 2/ SASH | 2 BAR HINGES | STEEL | ALL METAL STAMPING OR TRUTH HARDWARE |
| 16 | CS8-101 | AS REQD. | BULB WEATHERSTRIP | POLYPROPYLENE | AT EACH SASH MEMBER/INTEK |
| 17 | CS8-414 | 4/ WINDOW | METAL CAM-TYPE SWEEP LOCK | STEEL | AT 16" FROM EACH END |
| 18 | CS8-415 | 4/ SASH | KEEPERS AT LOCK LOCATIONS | STEEL | AT ACTIVE SASH |
| 19 | CS8-448 | AS REQD. | EURO HINGES | ALUMINUM | PURPOSE |
| 20 | CS8-456 | AS REQD. | MULTI POINT LOCK W/ KEEPERS | STEEL | TRUTH HARDWARE |
| 21 | CS8-102 | AS REQD. | FOAM FILLED BULB WEATHERSTRIPPING | POLYPROPYLENE | AT EACH FRAME MEMBER- AMESBURY |

Engr. DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557

[Signature]
JUN 05 2001

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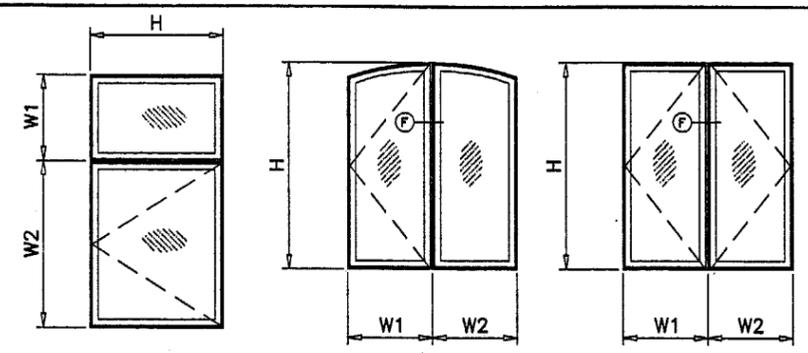
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W01-05
sheet 8 of 9

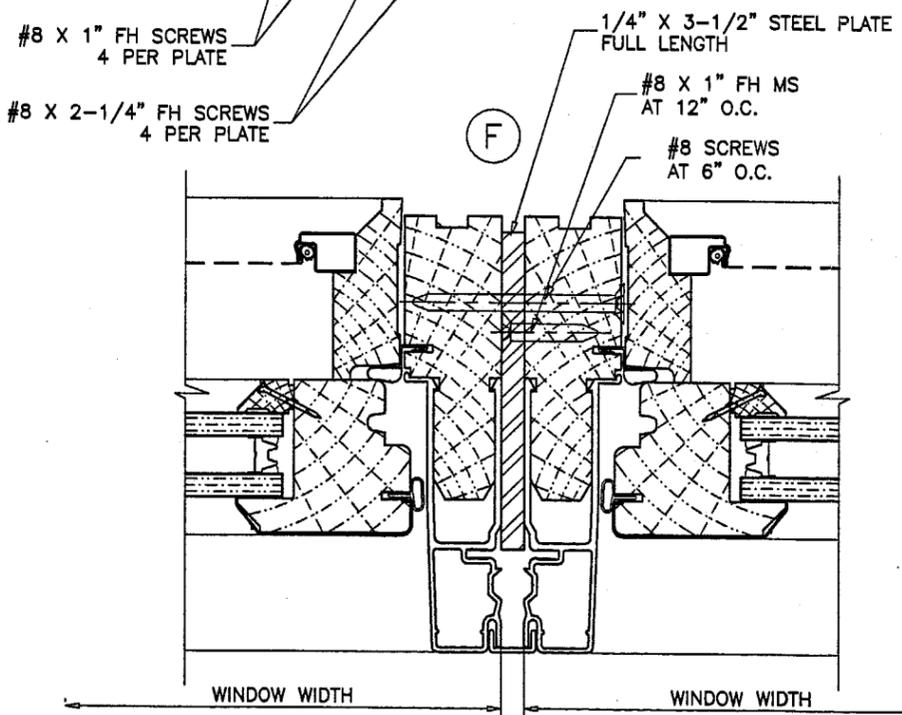
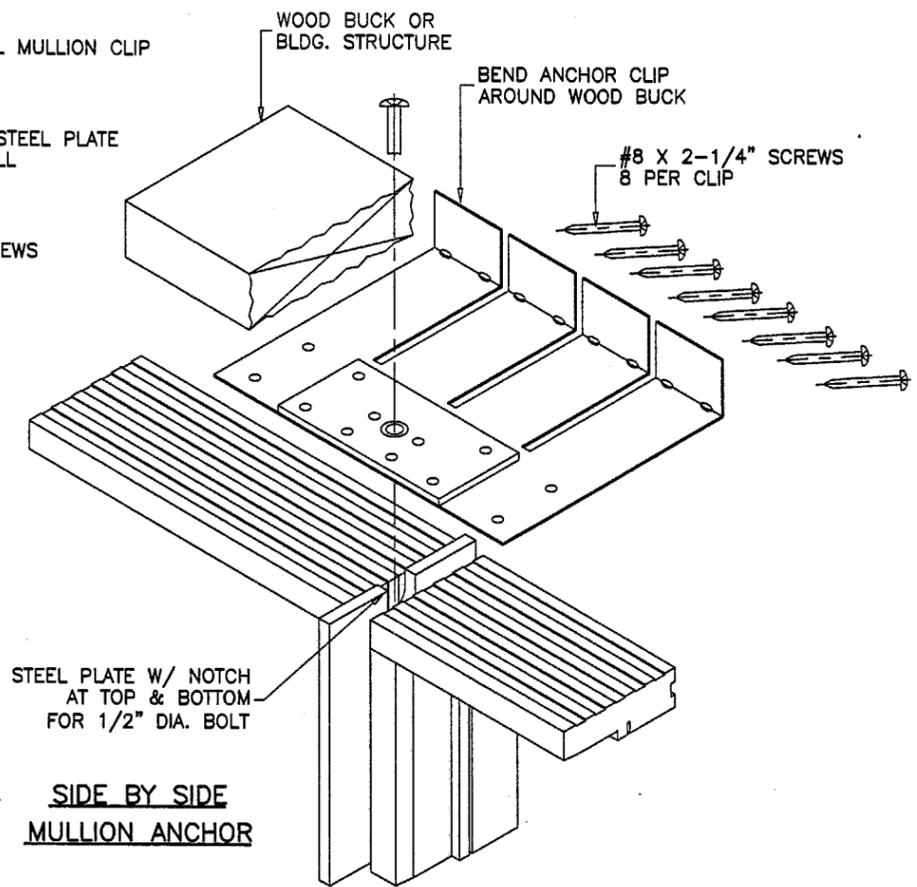
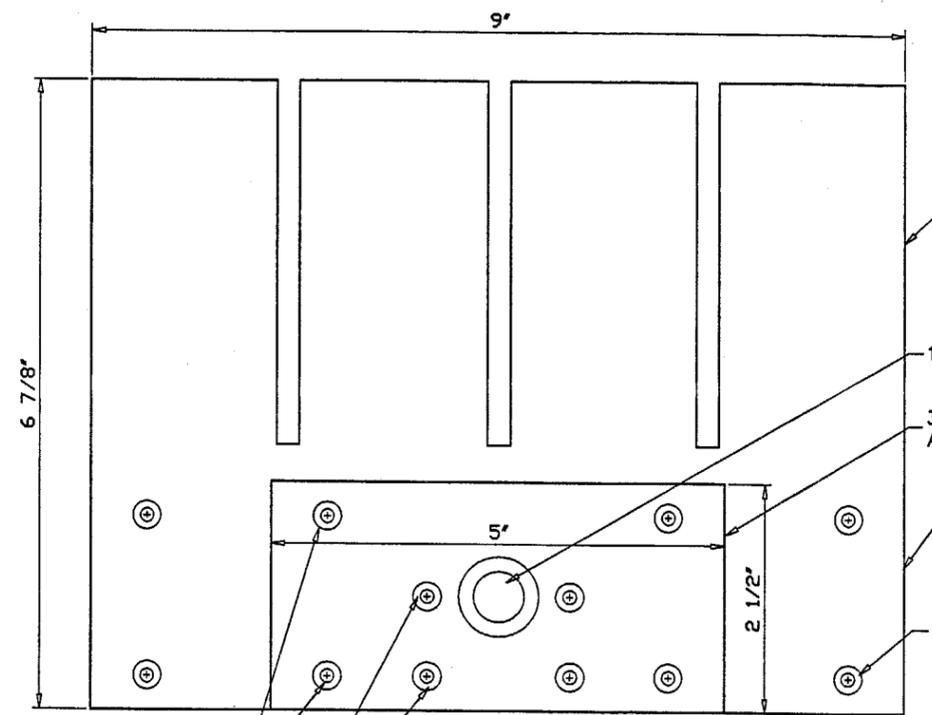
| SIDE BY SIDE WINDOWS | | |
|----------------------|---------|----------------------|
| WINDOW DIMENSIONS | | DESIGN LOAD CAPACITY |
| W - IN. | H - IN. | P MAX. -PSF |
| 27 | 36 | 200.0 |
| 30 | | 200.0 |
| 33 | | 200.0 |
| 36 | | 200.0 |
| 39 | | 200.0 |
| 42 | | 200.0 |
| 45 | | 200.0 |
| 48 | | 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 CASEMENT WINDOWS SEE PREVIOUS PAGES OF THIS NOA.
 FOR FIXED WINDOWS SEE CORRESPONDING NOA.



TYPICAL ELEVATIONS
 SIDE BY SIDE WINDOWS
 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 *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0522.07

AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 COMP-ANL\W01-05KK

ULTRA, HERITAGE WOOD & CLAD CASEMENT WDW.
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: 02-02-01
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W01-05
 sheet 9 of 9

Kolbe & Kolbe Millwork Co. Inc.

ACCEPTANCE No.: 01-0522.07

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 **W01-05**, titled "Ultra, Heritage Wood & Clad Casement Window" Sheets 1 through 9 of 9, dated 02/02/01, 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 casement window, prepared by Architectural Testing Test Report No. **ATI 02-32757.01**, dated 1/22/01, 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 wood casement window, prepared by Architectural Testing Test Report No. **ATI 02-32756.01**, dated 1/30/00, signed and sealed by Allen N. Reeves, P.E.
3. 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 casement window, prepared by Architectural Testing Test Report No. **ATI 02-32723.01**, dated 11/07/00, signed and sealed by Allen N. Reeves, P.E.
4. 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 casement window, prepared by Architectural Testing Test Report No. **ATI 02-32754.01**, dated 12/29/01, signed and sealed by Allen N. Reeves, P.E.
5. 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 casement window, prepared by Architectural Testing Test Report No. **ATI 02-32724.01**, dated 11/07/01, signed and sealed by Allen N. Reeves, P.E.


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

Kolbe & Kolbe Millwork Co. Inc.

ACCEPTANCE No.: 01-0522.07

APPROVED : JUN 28 2001

EXPIRES : JUN 28 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA.)

6. 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 casement window, prepared by Architectural Testing Test Report No. **ATI 02-32755.01**, dated 12/28/01, signed and sealed by Allen N. Reeves, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, Job # AFC 01-070 prepared by Al Farooq Corporation, dated May 14, 2001, signed and sealed by Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

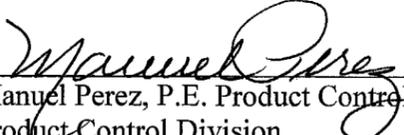
1. Notice of Acceptance No. **99-0908.01** issued to Cardinal DGP for "Cardinal Sea StormType B" dated 12/30/99, expiring on 12/30/02.

E. STATEMENTS

1. Statement letter of conformance, dated May 26, 2001, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated March 16, 2001, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report no. ATI- 02-32757, 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- 02-32756, issued by Architectural Testing, dated April 24, 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.
6. Laboratory compliance letter for Test Report no. ATI- 02-32754, issued by Architectural Testing, dated March 20, 2001, signed and sealed by Allen N. Reeves, P.E.
7. Laboratory compliance letter for Test Report no. ATI- 02-32755, issued by Architectural Testing, dated March 21, 2001, signed and sealed by Allen N. Reeves, P.E.
8. Laboratory compliance letter for Test Report no. ATI- 02-32724, 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