



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

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

**NOTICE OF ACCEPTANCE (NOA)**

**Andersen Corporation  
100 Fourth Ave. North  
Bayport, MN 5503**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "Perma Shield" Vinyl Clad Wood Casement Window**

**APPROVAL DOCUMENT:** Drawing No. **WO1-46**, dated 07/23/01, with revision dated 08/20/03, titled "Perma-Shield Vinyl Clad WD. Casement WDW.", sheets 1 through 5 of 5, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

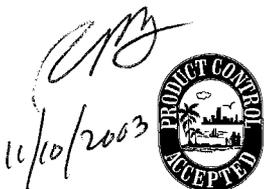
**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **02-0603.01**, and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**



**NOA No 03-0919.03  
Expiration Date: September 19, 2007  
Approval Date: December 04, 2003  
Page 1**

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **WO1-46**, dated 07/23/01, with revision dated 08/20/03, titled "Perma-Shield Vinyl Clad WD. Casement WDW.", sheets 1 through 5 of 5, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

1. Test reports on:
  - 1) Air Infiltration Test, per TAS 202-94.
  - 2) Uniform Load Static Air Pressure Test, per TAS 202-94.
  - 3) Water Resistance Test, per TAS 202-94.
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94along with the manufacturer's parts and section drawings marked-up by Architectural Testing Inc. report No. **ATI-02-45335.01** dated 05/21-23/03, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on
  - 1) Uniform Static Air Pressure Test, Loading per FBC, PA 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of a vinyl clad wood casement window, prepared by Architectural Testing, Inc., Test Report No. 02-33449.01, dated 9/10/01, signed and sealed by Allen Reeves, P.E. (**Submitted under previous NOA#02-0603.01**)
3. Test reports on
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, PA 203-94
  - 6) Forced Entry Test, FBC 2411.3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of a vinyl clad wood casement window, prepared by Architectural Testing, Inc., Test Report No. 02-33001.01, dated 2/1/01, signed and sealed by Allen Reeves, P.E. (**Submitted under previous NOA#02-0603.01**)

  
Theodore Berman, P.E.

Deputy Director, Product Control Division  
NOA No 03-0919.03  
Expiration Date: September 19, 2007  
Approval Date: December 04, 2003

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of a vinyl clad wood casement window, prepared by Architectural Testing, Inc., Test Report No. 02-33003.01, dated 2/8/01, signed and sealed by Allen Reeves, P.E. (**Submitted under previous NOA#02-0603.01**)
5. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411.3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of a vinyl clad wood casement window, prepared by Architectural Testing, Inc., Test Report No. 02-31312.01, dated 3/9/99, signed and sealed by Allen Reeves, P.E. (**Submitted under previous NOA#02-0603.01**)

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, prepared by Al Farooq Corporation, dated 1/2/02, signed and sealed by Humayoun Farooq, P.E.
2. Anchor Calculations and glass analysis, prepared by Al-Farooq Corporation, dated 2/5/03, signed and sealed by Humayoun Farooq, P.E.
3. Complies with ASTM E1300-98.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **01-1204.01** issued to E.I. Dupont DeNemours for "Sentry Glass ® Plus" dated 1/17/02, expiring on 01/14/07.
2. Notice of Acceptance No. **01-0205.02** issued to Solutia Inc. for "Saflex/Keepsafe Maximum" dated 05/17/01, expiring on 05/21/06.

  
Theodore Berman, P.E.

Deputy Director, Product Control Division  
NOA No 03-0919.03

Expiration Date: September 19, 2007  
Approval Date: December 04, 2003

**Andersen Corporation**

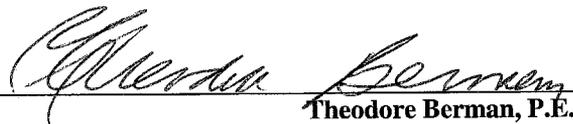
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance, dated 09/13/03, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated 09/13/03, signed and sealed by Humayoun Farooq, P.E.

**G. OTHER**

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



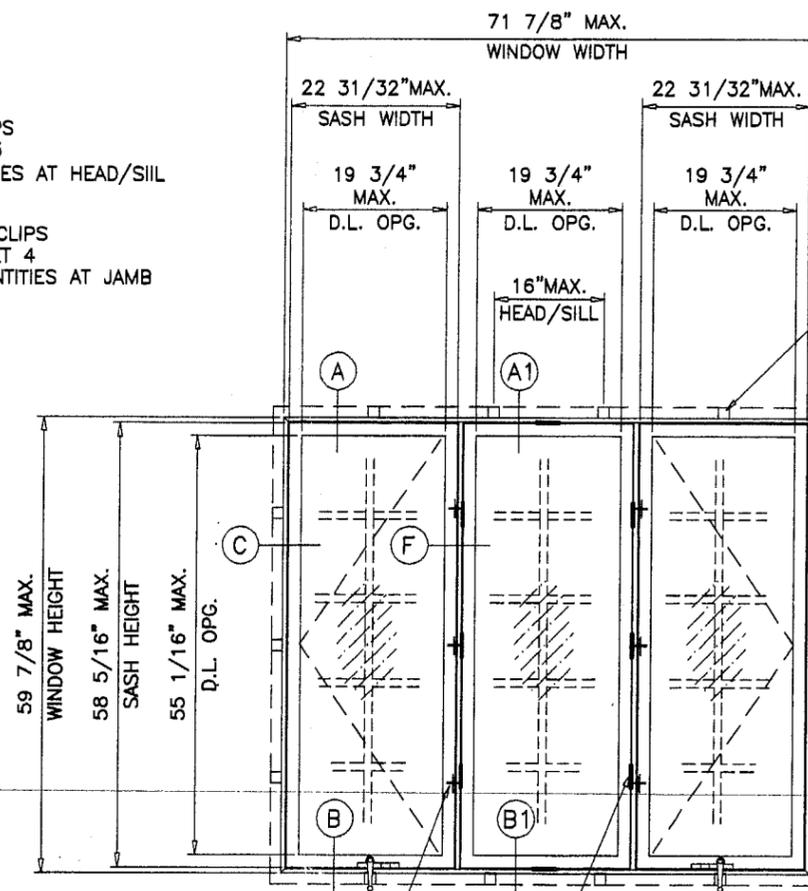
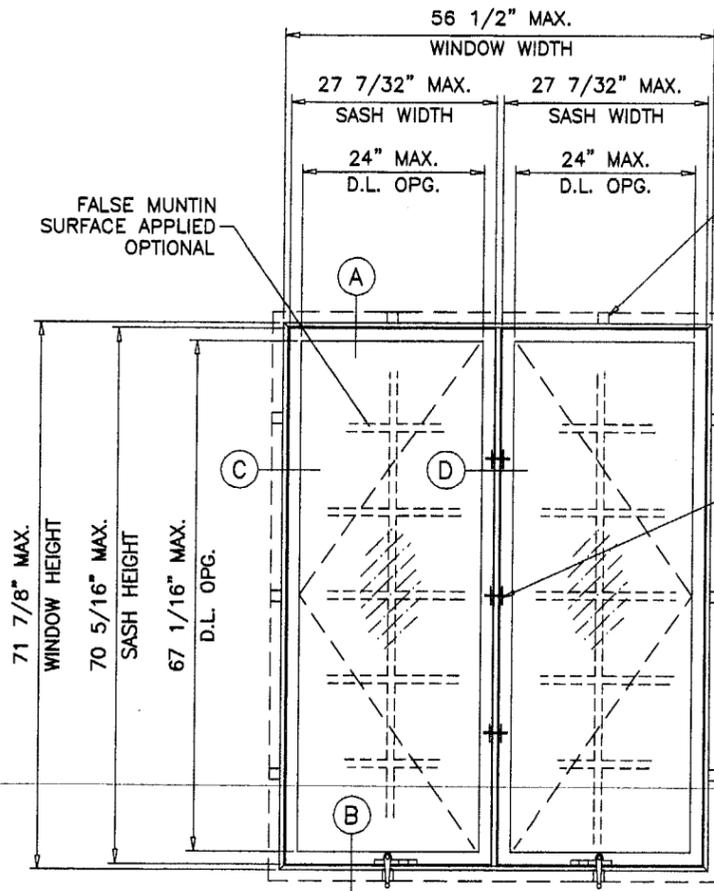
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Theodore Berman, P.E.  
Deputy Director, Product Control Division

NOA No 03-0919.03

Expiration Date: September 19, 2007

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TYPICAL ELEVATIONS  
TESTED UNITS

STATIONARY SASH CLIPS  
(1) PER HEAD & SILL  
FOR QUANTITIES @ JAMBS SEE CHART

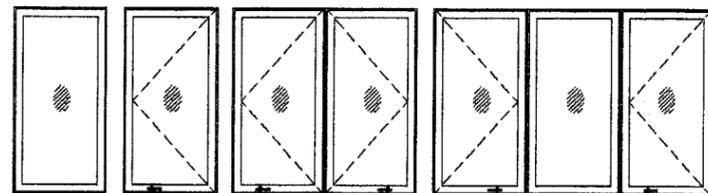
LOCKING POINTS  
SEE CHART

| WDW. HEIGHT<br>UPTO | NO. OF<br>KEEPERS<br>AT SASH | NO. OF<br>STAT. CLIPS<br>AT STAT. JAMB |
|---------------------|------------------------------|--|
| 28-3/8"             | 1                            | 1                                      |
| 40-13/16"           | 2                            | 2                                      |
| 59-7/8"             | 3                            | 3                                      |
| 71-7/8"             | 3                            | 4                                      |

'PERMA-SHIELD' VINYL CLAD WOOD CASEMENT WINDOW (IMPACT)

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

APPROVAL APPLIES TO SINGLE, DOUBLE AND TRIPLE WINDOWS  
IN ANY COMBINATION OF VENTING OR STATIONARY UNITS.



THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE  
ZONE OF THE 2001 FLORIDA BUILDING CODE.  
ALSO FOR WIND LOADS AS PER ASCE 7-88, ASCE 7-93, ASCE 7-95 OR  
ASCE 7-98 AS REQUIRED BY PREVAILING BUILDING CODE.

WOOD BUCKS BY OTHERS (MIN. 2X4 GRADE 2 SYP), 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.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 03-0919.03  
Expiration Date 09/19/03

By *Meredith Berman*  
Miami Dade Product Control  
Division

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

SEP 09 2003

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

'PERMA-SHIELD' VINYL CLAD WOOD CASEMENT WINDOW  
**ANDERSEN CORPORATION**  
100 FOURTH AVE. NORTH  
BAYPORT, MN. 55003-1096  
TEL. (800) 426-7691 FAX (-)



REVISIONS:

| no | date     | by                      | description |
|----|----------|-------------------------|-------------|
| A  | 08.09.02 | REV. PER BCCO COMMENTS  |             |
| B  | 08.20.03 | JAMB CLIPS SPACING REV. |             |

date: 07-23-01  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W01-46**

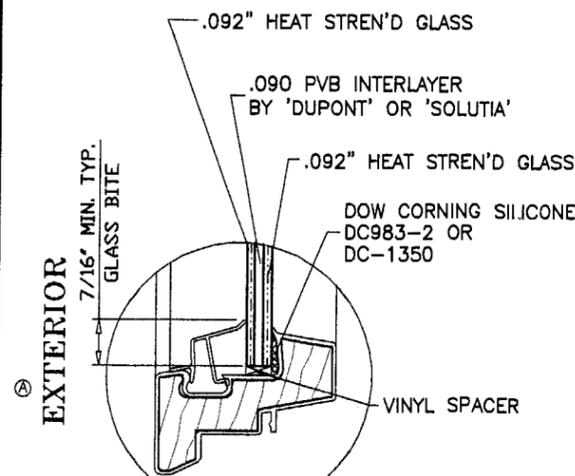
sheet 1 of 5

COMP-ANL W01-46AC

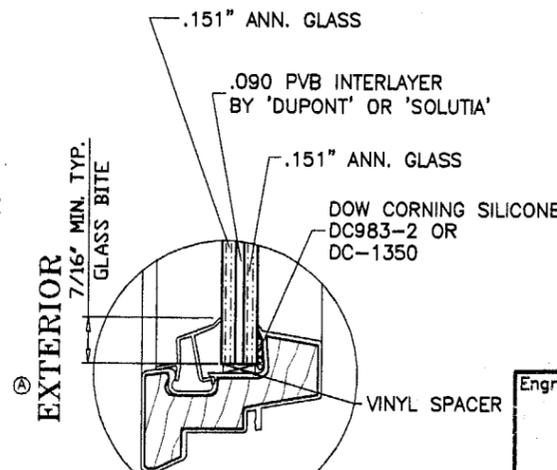
| DESIGN LOAD CAPACITY - PSF (SINGLE UNITS) |                   |                 |                       |          |                |          |
|---|-------------------|-----------------|-----------------------|----------|----------------|----------|
| WINDOW DESCRIPTION                        | UNIT WIDTH INCHES | UNIT HT. INCHES | GLASS TYPE 'A' OR 'B' |          |                |          |
|   |                   |                 | VENTING (X)           |          | STATIONARY (O) |          |
|   |                   |                 | EXT. (+)              | INT. (-) | EXT. (+)       | INT. (-) |
| CR12                                      | 17"               | 24-1/8"         | 67.0                  | 82.0     | 67.0           | 82.0     |
| CN12                                      | 20-1/2"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| C12                                       | 24-1/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CW12                                      | 28-3/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CR125                                     | 17"               | 28-3/8"         | 67.0                  | 82.0     | 67.0           | 82.0     |
| CN125                                     | 20-1/2"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| C125                                      | 24-1/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CW125                                     | 28-3/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CR13                                      | 17"               | 35-15/16"       | 67.0                  | 82.0     | 67.0           | 82.0     |
| CN13                                      | 20-1/2"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| C13                                       | 24-1/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CW13                                      | 28-3/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CXW13                                     | 35-15/16"         |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CR135                                     | 17"               | 40-13/16"       | 67.0                  | 82.0     | 67.0           | 82.0     |
| CN135                                     | 20-1/2"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| C135                                      | 24-1/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CW135                                     | 28-3/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CXW135                                    | 35-15/16"         |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CR14                                      | 17"               | 48"             | 67.0                  | 82.0     | 67.0           | 82.0     |
| CN14                                      | 20-1/2"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| C14                                       | 24-1/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CW14                                      | 28-3/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CXW14                                     | 35-15/16"         |                 | 60.0                  | 65.0     | 60.0           | 65.0     |
| CR145                                     | 17"               | 52-13/16"       | 67.0                  | 82.0     | 67.0           | 82.0     |
| CN145                                     | 20-1/2"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| C145                                      | 24-1/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CW145                                     | 28-3/8"           |                 | 67.0                  | 82.0     | 67.0           | 82.0     |
| CXW145                                    | 35-15/16"         |                 | 60.0                  | 65.0     | 60.0           | 65.0     |
| CR15                                      | 17"               | 59-7/8"         | 67.0                  | 82.0     | 67.0           | 71.0     |
| CN15                                      | 20-1/2"           |                 | 64.0                  | 68.0     | 67.0           | 71.0     |
| C15                                       | 24-1/8"           |                 | 64.0                  | 68.0     | 67.0           | 71.0     |
| CW15                                      | 28-3/8"           |                 | 64.0                  | 68.0     | 67.0           | 71.0     |
| CR155                                     | 17"               | 64-13/16"       | 60.0                  | 64.0     | 67.0           | 71.0     |
| CN155                                     | 20-1/2"           |                 | 60.0                  | 64.0     | 67.0           | 71.0     |
| C155                                      | 24-1/8"           |                 | 60.0                  | 64.0     | 67.0           | 71.0     |
| CW155                                     | 28-3/8"           |                 | 50.0                  | 52.0     | 67.0           | 70.8     |
| CR16                                      | 17"               | 71-7/8"         | 61.8                  | 65.6     | 67.0           | 71.0     |
| CN16                                      | 20-1/2"           |                 | 60.0                  | 64.0     | 67.0           | 71.0     |
| C16                                       | 24-1/8"           |                 | 60.0                  | 64.0     | 67.0           | 71.0     |
| CW16                                      | 28-3/8"           |                 | 50.0                  | 52.0     | 65.5           | 65.5     |

| DESIGN LOAD CAPACITY - PSF (DOUBLE UNITS) |                   |                 |                       |          |          |
|---|-------------------|-----------------|-----------------------|----------|----------|
| WINDOW DESCRIPTION                        | UNIT WIDTH INCHES | UNIT HT. INCHES | GLASS TYPE 'A' OR 'B' |          |          |
|   |                   |                 | XX, OX, XO OR OO      |          | INT. (-) |
|   |                   |                 | EXT. (+)              | INT. (-) |          |
| CR23                                      | 33-3/4"           | 35-15/16"       | 67.0                  | 71.0     |          |
| CN23                                      | 40-3/4"           |                 | 67.0                  | 71.0     |          |
| C23                                       | 48"               |                 | 67.0                  | 71.0     |          |
| CW23                                      | 56-1/2"           |                 | 67.0                  | 71.0     |          |
| CR235                                     | 33-3/4"           | 40-13/16"       | 67.0                  | 71.0     |          |
| CN235                                     | 40-3/4"           |                 | 67.0                  | 71.0     |          |
| C235                                      | 48"               |                 | 67.0                  | 71.0     |          |
| CW235                                     | 56-1/2"           |                 | 67.0                  | 71.0     |          |
| CR24                                      | 33-3/4"           | 48"             | 67.0                  | 71.0     |          |
| CN24                                      | 40-3/4"           |                 | 67.0                  | 71.0     |          |
| C24                                       | 48"               |                 | 67.0                  | 71.0     |          |
| CW24                                      | 56-1/2"           |                 | 67.0                  | 71.0     |          |
| CR245                                     | 33-3/4"           | 52-13/16"       | 67.0                  | 71.0     |          |
| CN245                                     | 40-3/4"           |                 | 67.0                  | 71.0     |          |
| C245                                      | 48"               |                 | 67.0                  | 71.0     |          |
| CW245                                     | 56-1/2"           |                 | 67.0                  | 71.0     |          |
| CR25                                      | 33-3/4"           | 59-7/8"         | 67.0                  | 71.0     |          |
| CN25                                      | 40-3/4"           |                 | 63.7                  | 67.5     |          |
| C25                                       | 48"               |                 | 60.0                  | 64.0     |          |
| CW25                                      | 56-1/2"           |                 | 60.0                  | 64.0     |          |
| CR255                                     | 33-3/4"           | 64-13/16"       | 60.7                  | 64.3     |          |
| CN255                                     | 40-3/4"           |                 | 60.0                  | 64.0     |          |
| C255                                      | 48"               |                 | 55.7                  | 59.4     |          |
| CW255                                     | 56-1/2"           |                 | 50.0                  | 52.0     |          |
| CR26                                      | 33-3/4"           | 71-7/8"         | 58.0                  | 61.9     |          |
| CN26                                      | 40-3/4"           |                 | 55.0                  | 58.0     |          |
| C26                                       | 48"               |                 | 55.0                  | 58.0     |          |
| CW26                                      | 56-1/2"           |                 | 50.0                  | 52.0     |          |

| DESIGN LOAD CAPACITY - PSF (TRIPLE UNITS) |                   |                 |                           |          |
|---|-------------------|-----------------|---------------------------|----------|
| WINDOW DESCRIPTION                        | UNIT WIDTH INCHES | UNIT HT. INCHES | GLASS TYPE 'A' OR 'B'     |          |
|   |                   |                 | XOX, OOX, XOO, OOO OR XXX |          |
|   |                   |                 | EXT. (+)                  | INT. (-) |
| C33                                       | 71-7/8"           | 35-15/16"       | 67.0                      | 71.0     |
| C335                                      | 71-7/8"           | 40-13/16"       | 67.0                      | 71.0     |
| C34                                       | 71-7/8"           | 48"             | 60.0                      | 64.0     |
| C345                                      | 71-7/8"           | 52-13/16"       | 60.0                      | 64.0     |
| C35                                       | 71-7/8"           | 59-7/8"         | 60.0                      | 64.0     |



GLASS TYPE 'A'  
9/32" THICK NOMINAL



GLASS TYPE 'B'  
3/8" THICK NOMINAL

IMPACT RESISTANT GLASS  
SHUTTERS NOT REQUIRED

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 03-0919.03  
Expiration Date 09/19/07

By: *Glenn Berkman*  
Miami Dade Product Control  
Division

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

SEP 09 2003

**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\W01-46AC

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**ANDERSEN CORPORATION**  
100 FOURTH AVE. NORTH  
BAYPORT, MN. 55003-1096  
TEL (800) 426-7681 FAX (-)

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**PERMA-SHIELD VINYL CLAD WD. CASEMENT WDW.**

| no. | date     | by | description                |
|-----|----------|----|----------------------------|
| A   | 08.09.02 |    | REV. PER BCCO COMMENTS     |
| B   | 08.20.03 |    | SIZES CXW14 & CXW145 ADDED |

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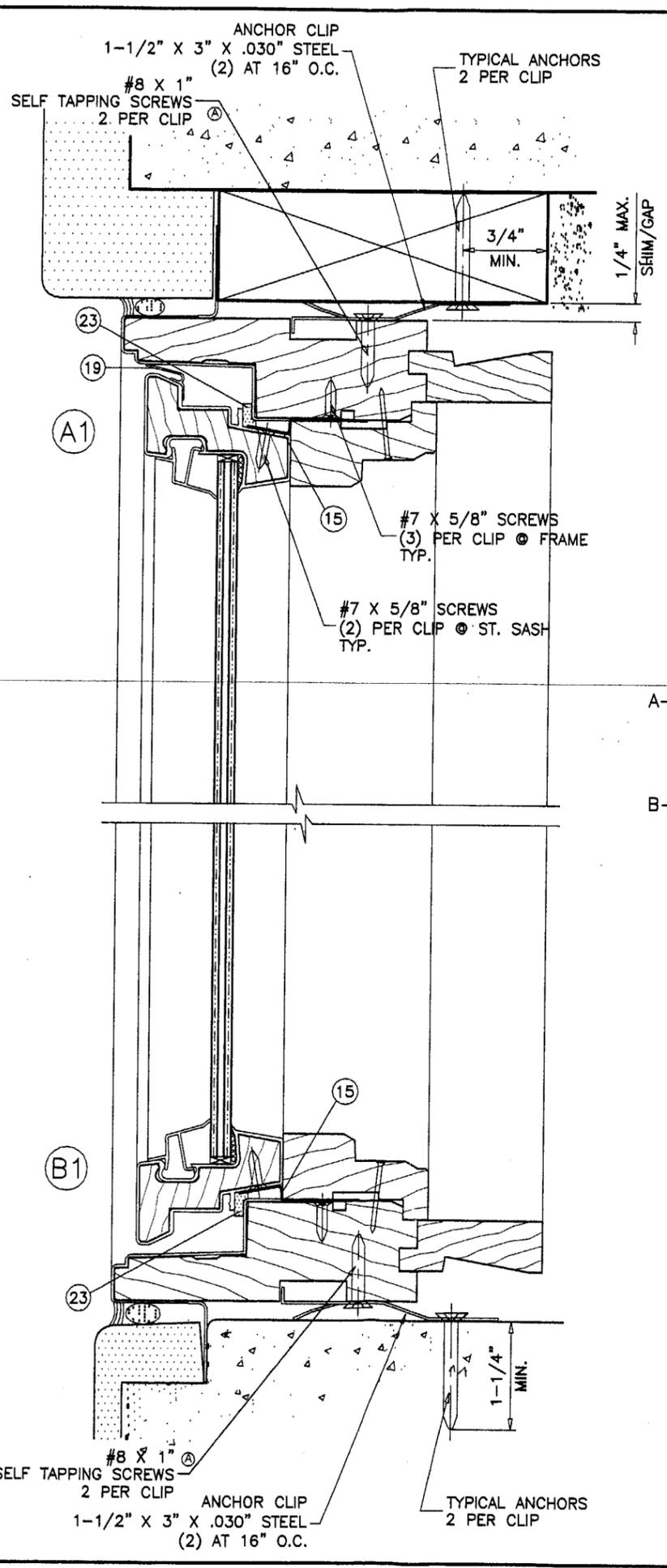
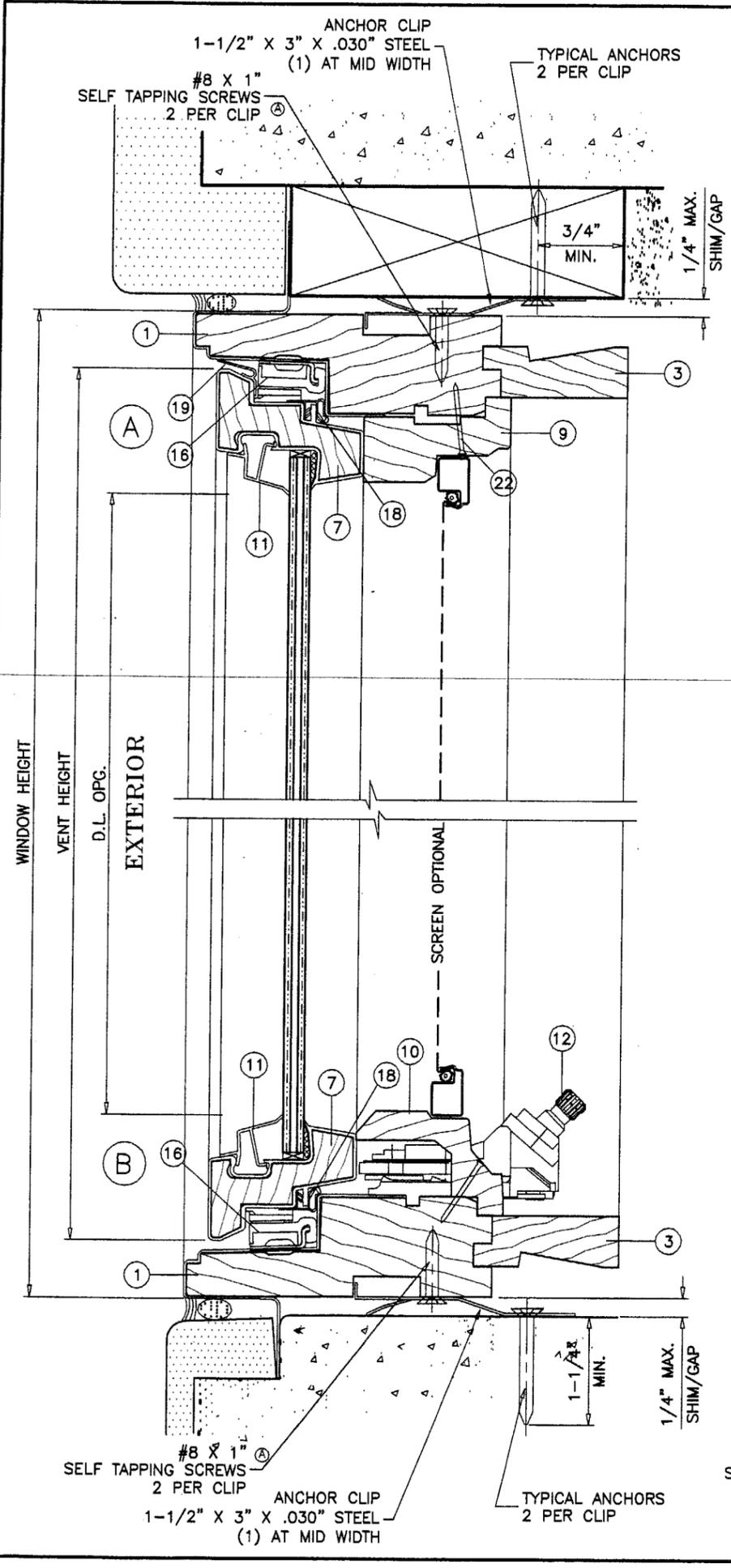
date: 07-23-01  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

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drawing no.  
**W01-46**

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sheet 2 of 5



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

NOTE:  
 PROVIDE ANCHOR CLIPS AT HEAD & SILL AS FOLLOWS  
 SINGLE AND DOUBLE UNITS: (1) AT CENTER OF EACH SASH  
 TRIPLE UNITS: (1) AT CENTER OF END SASH  
 (2) AT MIDDLE SASH SEE ELEV.

**TYPICAL ANCHORS**

- A- #8 SMS  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE  
 1-1/2" MIN. PENETRATION INTO WOOD
- B- 3/16"  $\phi$  TAPCONS (BY ELCO) OR  
 EQUIVALENT CONCRETE ANCHOR  
 THRU 1BY WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY  
 1-1/4" MIN. MASONRY EMBED.

**LOCKING OPTIONS:**

- SURFACE MOUNTED LOCK WITH KEEPERS ON SASH BY AMEROCK CORP.
- (1) POINT LOCK FOR WINDOWS UPTO 28-3/8" HEIGHTS.
  - (2) POINT LOCK FOR WINDOWS UPTO 40-13/16" HEIGHTS.
  - (3) POINT LOCK FOR ALL BIGGER HEIGHTS.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 03-0919.03  
 Expiration Date 09/19/03  
 By: *Mervin Berman*  
 Miami Dade Product Control  
 Division

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538  
 SEP 09 2003

*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\W01-46AC

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'PERMA-SHIELD' VINYL CLAD WD. CASEMENT WDW.  
**ANDERSEN CORPORATION**  
 100 FOURTH AVE. NORTH  
 BAYPORT, MN. 55003-1096  
 TEL. (800) 426-7691 FAX (-)

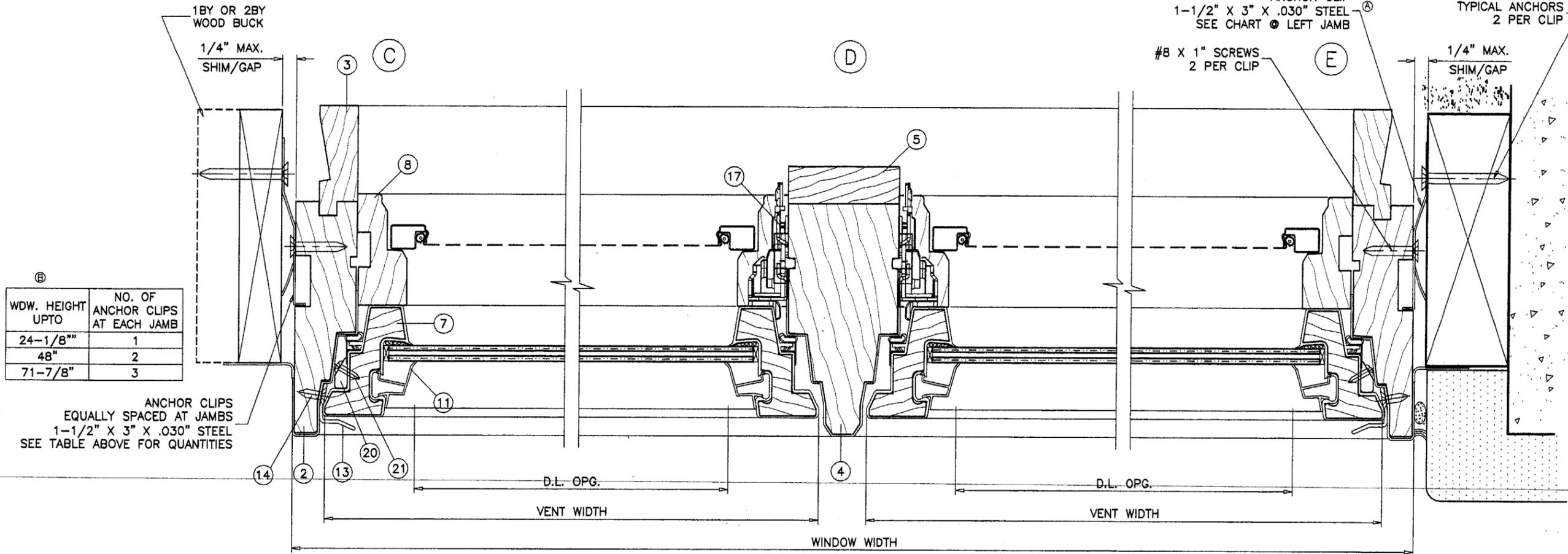
| no | date     | description | REV. PER BCCO COMMENTS |
|----|----------|-------------|------------------------|
| A  | 08.09.02 |             |                        |
| B  | 08.20.03 |             | NO CHANGE THIS SHEET   |

revisions:

date: 07-23-01  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**W01-46**

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ⓑ

| WDW. HEIGHT UPTO | NO. OF ANCHOR CLIPS AT EACH JAMB |
|------------------|----------------------------------|
| 24-1/8"          | 1                                |
| 48"              | 2                                |
| 71-7/8"          | 3                                |

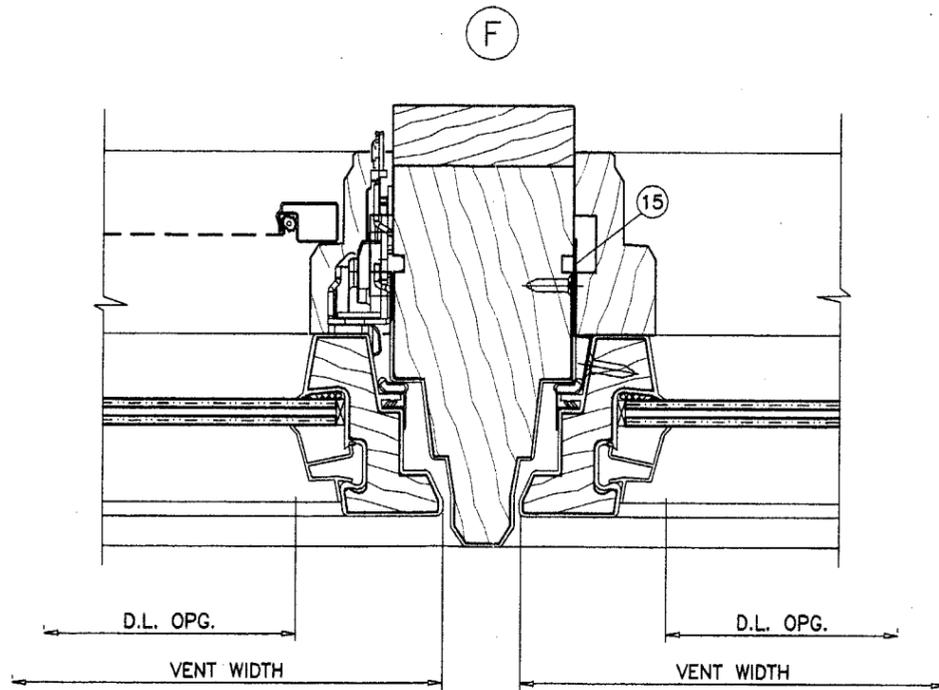
ANCHOR CLIPS EQUALLY SPACED AT JAMBS  
1-1/2" X 3" X .030" STEEL  
SEE TABLE ABOVE FOR QUANTITIES

ANCHOR CLIP  
1-1/2" X 3" X .030" STEEL  
SEE CHART ● LEFT JAMB

#8 X 1" SCREWS  
2 PER CLIP

TYPICAL ANCHORS  
2 PER CLIP

EXTERIOR



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 03-0919.03  
Expiration Date 09/19/07  
By Michael Gorman  
Miami Dade Product Control  
Division

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 18557  
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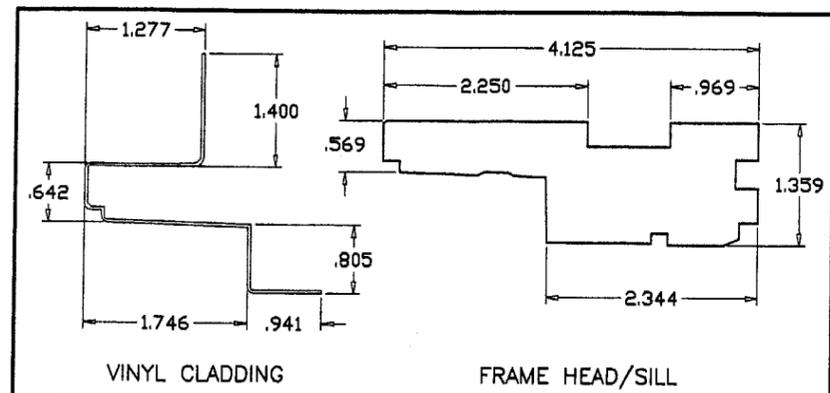
PERMA-SHIELD VINYL CLAD WD. CASEMENT WDW.

| no | date     | description                |
|----|----------|----------------------------|
| A  | 08.09.02 | REV. PER BCCO COMMENTS     |
| B  | 08.20.03 | WDW. HT. 48" WAS 52-13/16" |

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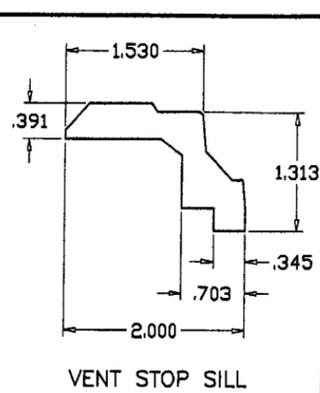
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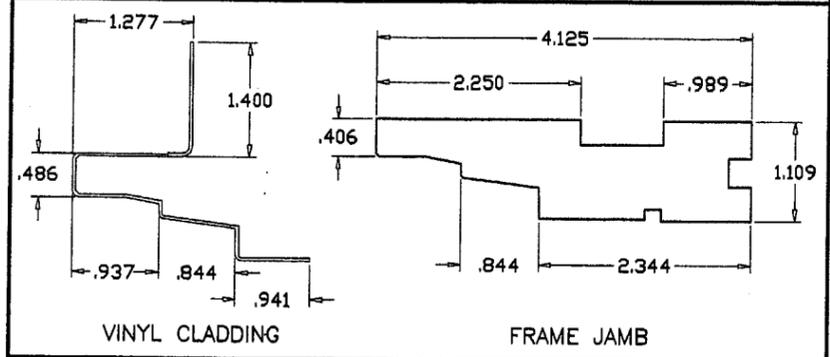


VINYL CLADDING

FRAME HEAD/SILL

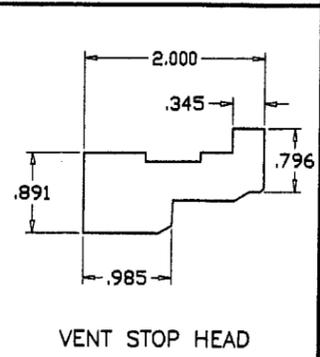


VENT STOP SILL

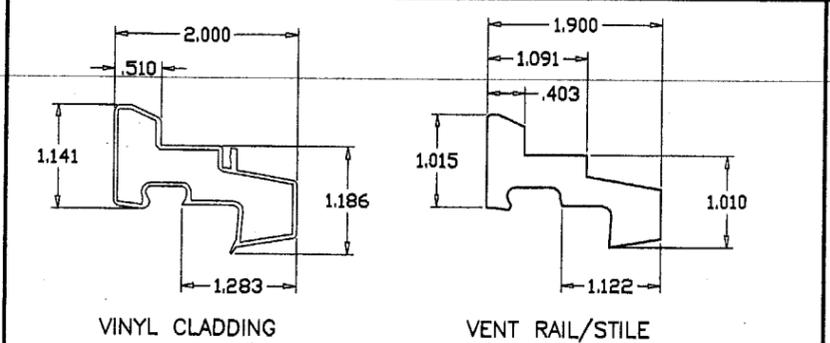


VINYL CLADDING

FRAME JAMB

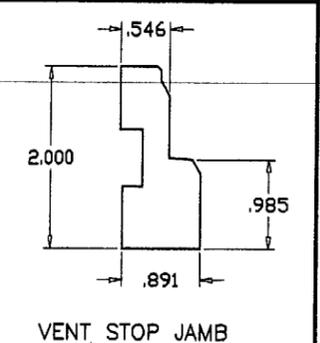


VENT STOP HEAD

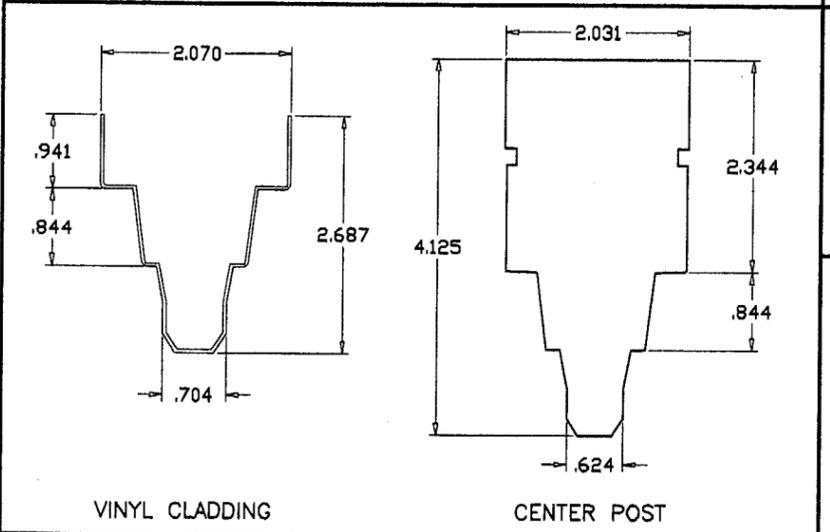


VINYL CLADDING

VENT RAIL/STILE

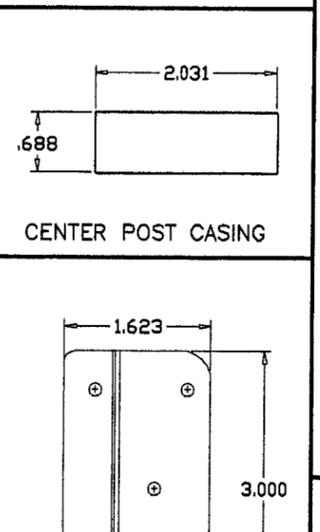


VENT STOP JAMB

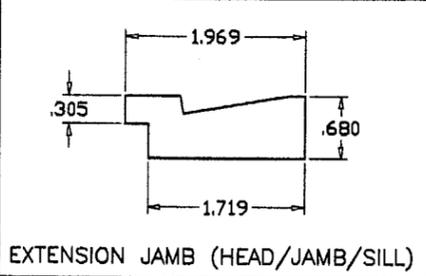


VINYL CLADDING

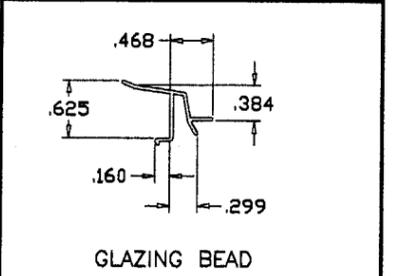
CENTER POST



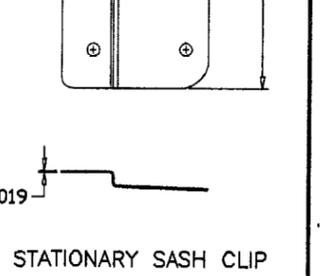
CENTER POST CASING



EXTENSION JAMB (HEAD/JAMB/SILL)

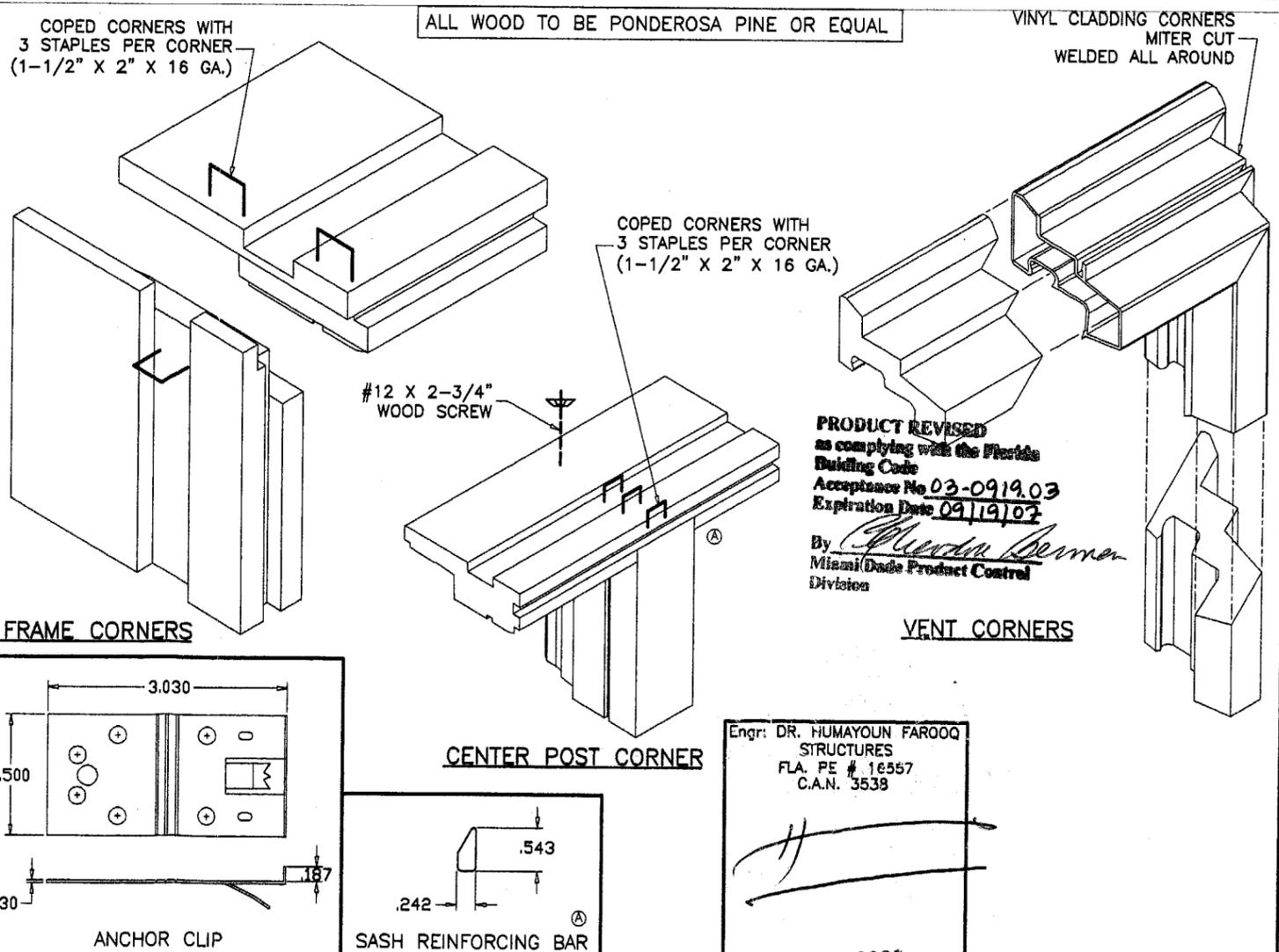


GLAZING BEAD



STATIONARY SASH CLIP

| ITEM # | NUMBER    | QUANTITY | DESCRIPTION             | MATERIAL    | MANF./SUPPLIER/REMARKS                    |
|--------|-----------|----------|-------------------------|-------------|---|
| 1      | 30835     | AS REQD. | FRAME HEAD/SILL         | WOOD        | ANDERSEN                                  |
| 2      | 30838     | AS REQD. | FRAME JAMB              | WOOD        | ANDERSEN                                  |
| 3      | -         | OPTIONAL | EXTENSION JAMBS         | WOOD        | ANDERSEN                                  |
| 4      | 30839     | 1        | POST MULLION            | WOOD        | ANDERSEN                                  |
| 5      | 30056     | 1        | CASING MULLION          | -           | -   |
| 6      | -         | -        | -                       | -           | -   |
| 7      | 30013     | 4/       | SASH                    | WOOD        | ANDERSEN                                  |
| 8      | -         | 2/       | WDW.                    | WOOD        | ANDERSEN                                  |
| 9      | 30846/48  | 1/       | WDW.                    | WOOD        | ANDERSEN                                  |
| 10     | 30843/45  | 1/       | WDW.                    | WOOD        | ANDERSEN                                  |
| 11     | 30184     | AS REQD. | GLAZING BEAD            | PVC         | -   |
| 12     | 30810/12  | 1/       | SASH                    | STEEL       | AMEROCK CORP.                             |
| 13     | 30442     | 1/       | SASH                    | ALUMINUM    | -   |
| 14     | #8 X 1/2" | -        | SNUGGER SCREWS          | -           | AT 1-1/2" FROM ENDS & 12" O.C.            |
| 15     | 30053     | -        | STATIONARY SASH CLIP    | GALV. STEEL | -   |
| 16     | 1361409   | 2/       | SASH                    | STEEL       | AMEROCK CORP.                             |
| 17     | -         | AS REQD. | LOCK W/ KEEPERS ON SASH | STEEL       | AMEROCK CORP.                             |
| 18     | 30213     | AS REQD. | WEATHERSTRIP STILE      | -           | -   |
| 19     | 30021     | AS REQD. | WATERBAR WEATHERSTRIP   | -           | -   |
| 20     | 30871     | 1/       | SASH                    | ALUMINUM    | FOR 64-13/16" & 71-7/8" WDW. HEIGHTS ONLY |
| 21     | #8 X 5/8" | -        | REINFORCING BAR SCREWS  | -           | AT 11" O.C. MAX.                          |
| 22     | -         | AS REQD. | BRAD NAILS 1-1/2" LONG  | GALV. STEEL | -   |
| 23     | 30172     | -        | FOAM WEATHERSTRIPPING   | -           | -   |



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