



MIAMI-DADE COUNTY
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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Andersen Corporation
100 Fourth Avenue North
Bayport, MN 55003-1096

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Perma-Shield" Vinyl Clad Outswing Wood Casement Window - N.I.

APPROVAL DOCUMENT: Drawing No. **W03-72**, titled "Perma-Shield Vinyl Clad Wd. Casement Wdw.", sheets 1 through 8 of 8, dated 08/22/03, with revision "E" dated 03/16/09, prepared by Al-Farooq Corporation, 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: None

LIMITATION: Miami-Dade County Approved Shutters Or External Protection Devices Are Required.

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.

REVISION 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 # **08-0516.03** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 09-0408.01
Expiration Date: June 22, 2013
Approval Date: September 16, 2009
Page 1

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W03-72**, titled "Perma-Shield Vinyl Clad Wd. Casement Wdw.", sheets 1 through 8 of 8, dated 08/22/03, with revision "E" dated 03/16/09, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. 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) Forced Entry Test per FBC 2411.3.2.1 (b) and TAS 202-94
along with marked-up drawings and installation diagram of vinyl clad casement windows, prepared and issued by Architectural Testing, Inc., Test Report No. **ATI-02-50075.01** dated April 28, 2004, signed and sealed by Steven M. Urich, P.E.
(Submitted under previous NOA #04-0930.02)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model C15 single panel vinyl clad wood casement windows marked-up by Architectural Testing Inc., Test Report No. **ATI- 02-46995.01**, dated 11/26/03, signed and sealed by Joseph A. Reed, P. E.
(Submitted under NOA#04-0504.06)
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model C15 single panel vinyl clad wood casement windows marked-up by Architectural Testing, Inc., Test Report No. **ATI-02-33003.01**, dated 02/08/01, signed and sealed by Allen N. Reeves, P. E.
(Submitted under NOA # 03-0110.01)
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model CXW16 single panel vinyl clad wood casement windows (3' x 6') marked-up by Architectural Testing, Inc., Test Report No. **ATI-02-31165.01**, dated 01/28/99, signed and sealed by Allen N. Reeves, P.E.
(Submitted under NOA#03-0415.14)


Manuel Perez, P.E.

Product Control Examiner
NOA No. ~~09-0408.01~~

Expiration Date: June 22, 2013

Approval Date: September 16, 2009

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (continued)

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model C15 single panel vinyl clad wood casement windows (2' x 6') marked-up by Architectural Testing Inc., Test Report No. **ATI-02-31166.01**, dated 01/28/99, signed and sealed by Allen N. Reeves, P. E.
(Submitted under NOA#03-0415.14)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004 and 2007, prepared by Al-Farooq Corporation, dated March 19, 2009, signed and sealed by Humayoun Farooq, P.E.
Complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

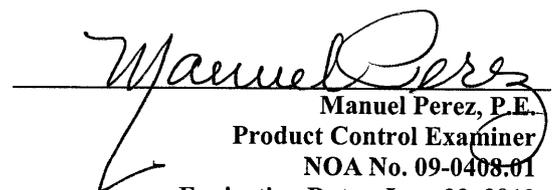
1. None.

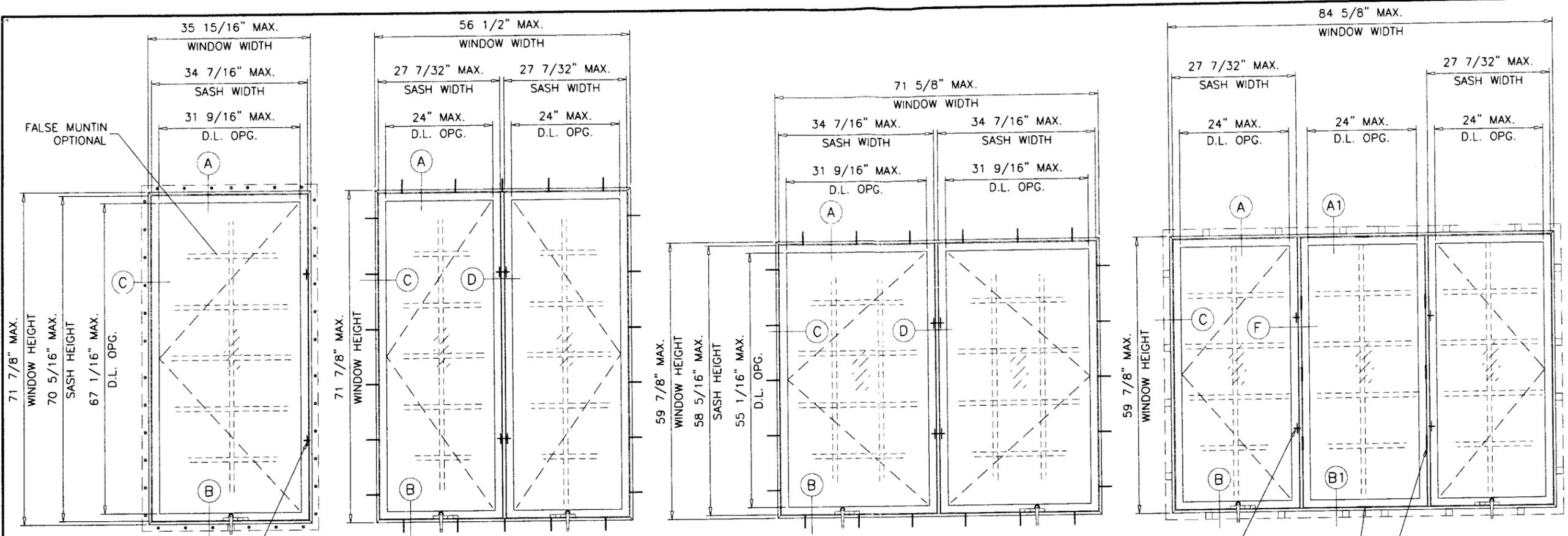
F. STATEMENTS

1. Statement letter of conformance, dated March 16, 2009, signed and sealed by Humayoun Farooq, P.E.
2. Statement letter of no financial interest, dated March 16, 2009, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letter for Test Report No. **ATI-02-31166.01**, issued by Architectural Testing Inc., dated January 28, 1999, signed and sealed by Allen N. Reeves, P.E.
(Submitted under NOA#03-0415.14)

G. OTHERS

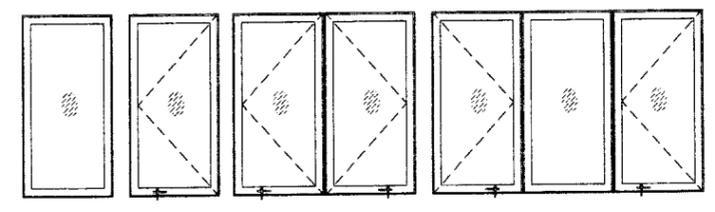
1. Notice of Acceptance No. **08-0516.03**, issued to Andersen Corporation for their Series "Perma-Shield" Vinyl Clad Wood Casement Window – N.I., approved on 07/17/08 and expiring on 06/22/13.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0408.01
Expiration Date: June 22, 2013
Approval Date: September 16, 2009



'PERMA-SHIELD' VINYL CLAD WOOD CASEMENT WINDOW

APPROVAL APPLIES TO SINGLE, DOUBLE OR TRIPLE WINDOWS IN ANY COMBINATION OF VENTING OR STATIONARY UNITS. ALSO COMBINATIONS OF CASMT/CASMT OR CASEMENT WITH OTHER WINDOW TYPES USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.



THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004/2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ). WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS 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. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004/2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

TYPICAL ELEVATIONS TESTED UNITS

SEE SHEET 3 FOR ANCHOR SPACING
SEE SHEET 5 FOR ANCHOR DESCRIPTION

INSTRUCTIONS:

- USE CHARTS AS FOLLOWS.
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
 - STEP 2** SEE CHARTS ON SHEETS 2 FOR DESIGN LOAD CAPACITY OF DESIRED WINDOW SIZE BASED ON APPLICABLE WIND DURATION.
 - STEP 3** USE CHART ON THIS SHEET 3 FOR WINDOW ANCHORS CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
 - STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

WINDOWS NOT RATED FOR IMPACT. INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS. INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION. ALL WOOD IN CONTACT WITH MASONRY AND CONCRETE ETC. WILL BE TREATED USING 'WATERBORNE MILLTREAT™' WATER REPELLENT WOOD PRESERVATIVE AS MANUFACTURED BY 'KOP-COAT, INC.'

WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH
40-13/16"	1
71-7/8"	2

WDW. HEIGHT UPTO	NO. OF STAT. CLIPS AT STAT. JAMB
28-3/8"	1
40-13/16"	2
59-7/8"	3
64-13/16"	4
71-7/8"	5

WDW. WIDTH UPTO	NO. OF STAT. CLIPS AT STAT. JAMB
24-1/8"	1
35-15/16"	2

INSULATED GLASS NON-IMPACT

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

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 09-0408.01
Expiration Date JUNE 27, 2013
By: *Manuel Perez*
Miami Dade Product Control
Division

MAR 25 2009

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL \ W03-72AC

'PERMA-SHIELD' VINYL CLAD W.D. CASEMENT WDW.

ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL. (800) 426-7691 FAX (-)

no	date	description	by
A	02.28.04	CW SIZES ADDED	
B	08.02.04	CW SIZES ADDED	
C	07.07.05	UPDATED FOR 2004 FBC	
D	10.22.07	NO CHANGE THIS SHEET	
E	03.16.09	UPDATED FOR 2007 FBC	

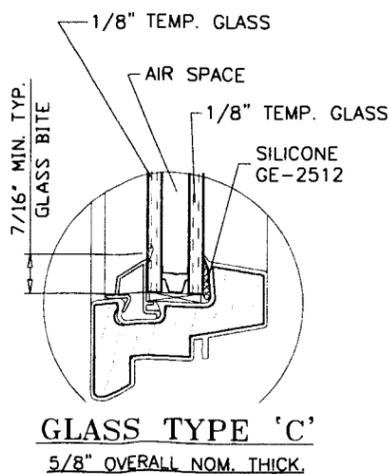
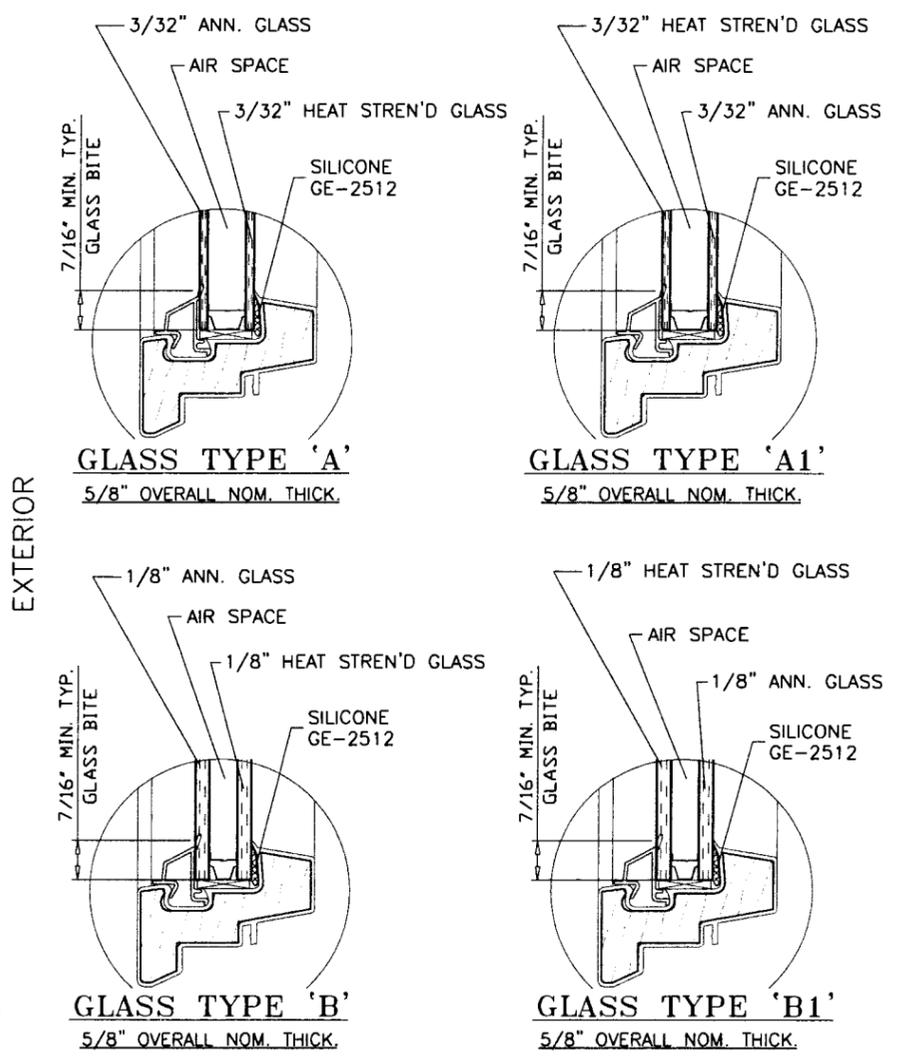
date: 08-22-03
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no. **W03-72**
sheet 1 of 8

DESIGN LOAD CAPACITY - PSF (SINGLE UNITS)									
VENTING (X), STATIONARY (O)									
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'		GLASS TYPE 'C'		
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
CR12	17"	24-1/8"	75.0	75.0	75.0	75.0	75.0	75.0	
CN12	20-1/2"		75.0	75.0	75.0	75.0	75.0	75.0	
C12	24-1/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CW12	28-3/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CR125	17"	28-3/8"	75.0	75.0	75.0	75.0	75.0	75.0	
CN125	20-1/2"		75.0	75.0	75.0	75.0	75.0	75.0	
C125	24-1/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CW125	28-3/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CX125	31-1/2"	75.0	75.0	75.0	75.0	75.0	75.0		
CR13	17"	35-15/16"	75.0	75.0	75.0	75.0	75.0	75.0	
CN13	20-1/2"		75.0	75.0	75.0	75.0	75.0	75.0	
C13	24-1/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CW13	28-3/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CX13	31-1/2"		75.0	75.0	75.0	75.0	75.0	75.0	
CXW13	35-15/16"	75.0	75.0	75.0	75.0	75.0	75.0		
CR135	17"	40-13/16"	75.0	75.0	75.0	75.0	75.0	75.0	
CN135	20-1/2"		75.0	75.0	75.0	75.0	75.0	75.0	
C135	24-1/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CW135	28-3/8"		75.0	75.0	75.0	75.0	75.0	75.0	
CX135	31-1/2"		75.0	75.0	75.0	75.0	75.0	75.0	
CXW135	35-15/16"	69.5	69.5	75.0	75.0	75.0	75.0		
CR14	17"	48"	75.0	75.0	75.0	75.0	75.0	75.0	
CN14	20-1/2"		73.5	73.5	75.0	75.0	75.0	75.0	
C14	24-1/8"		67.8	67.8	75.0	75.0	75.0	75.0	
CW14	28-3/8"		67.0	67.0	75.0	75.0	75.0	75.0	
CX14	31-1/2"		64.8	64.8	75.0	75.0	75.0	75.0	
CXW14	35-15/16"	59.1	59.1	74.9	74.9	74.9	74.9		
CR145	17"	52-13/16"	75.0	75.0	75.0	75.0	75.0	75.0	
CN145	20-1/2"		67.8	67.8	75.0	75.0	75.0	75.0	
C145	24-1/8"		59.4	59.4	75.0	75.0	75.0	75.0	
CW145	28-3/8"		58.6	58.6	75.0	75.0	75.0	75.0	
CX145	31-1/2"		57.6	57.6	75.0	75.0	75.0	75.0	
CXW145	35-15/16"	53.7	53.7	68.0	68.0	68.0	68.0		
CR15	17"	59-7/8"	75.0	75.0	75.0	75.0	75.0	75.0	
CN15	20-1/2"		62.3	62.3	75.0	75.0	75.0	75.0	
C15	24-1/8"		51.0	51.0	75.0	75.0	75.0	75.0	
CW15	28-3/8"		49.2	49.2	66.3	66.3	74.7	74.7	
CX15	31-1/2"		49.0	49.0	65.0	65.0	68.5	68.5	
CXW15	35-15/16"	46.8	46.8	60.0	60.0	60.0	60.0		
CR155	17"	64-13/16"	75.0	75.0	75.0	75.0	75.0	75.0	
CN155	20-1/2"		59.1	59.1	75.0	75.0	75.0	75.0	
C155	24-1/8"		46.8	46.8	72.2	72.2	75.0	75.0	
CW155	28-3/8"		43.8	43.8	60.2	60.2	67.4	67.4	
CX155	31-1/2"		44.0	44.0	58.1	58.1	62.7	62.7	
CXW155	35-15/16"	-	-	57.9	57.9	55.4	55.4		
CR16	17"	71-7/8"	75.0	75.0	75.0	75.0	75.0	75.0	
CN16	20-1/2"		55.4	55.4	75.0	75.0	75.0	75.0	
C16	24-1/8"		42.3	42.3	67.1	67.1	67.1	67.1	
CW16	28-3/8"		37.8	37.8	54.0	54.0	59.2	59.2	
CX16	31-1/2"		37.8	37.8	50.7	50.7	54.8	54.8	
CXW16	35-15/16"	-	-	49.9	49.9	50.0	50.0		

DESIGN LOAD CAPACITY - PSF (DOUBLE UNITS)											
XX, OX, XO OR OO											
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'		GLASS TYPE 'C'				
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)			
CR23	33-3/4"	35-15/16"	65.0	75.0	65.0	75.0	65.0	75.0			
CN23	40-3/4"		65.0	75.0	65.0	75.0	65.0	75.0			
C23	48"		65.0	75.0	65.0	75.0	65.0	75.0			
CW23	56-1/2"		65.0	75.0	65.0	75.0	65.0	75.0			
CX23	62-3/4"		65.0	75.0	65.0	75.0	65.0	75.0			
CXW23	71-5/8"	65.0	75.0	65.0	75.0	65.0	75.0				
CR235	33-3/4"	40-13/16"	65.0	75.0	65.0	75.0	65.0	75.0			
CN235	40-3/4"		65.0	75.0	65.0	75.0	65.0	75.0			
C235	48"		65.0	75.0	65.0	75.0	65.0	75.0			
CW235	56-1/2"		65.0	75.0	65.0	75.0	65.0	75.0			
CX235	62-3/4"		65.0	75.0	65.0	75.0	65.0	75.0			
CXW235	71-5/8"	65.0	69.5	65.0	75.0	65.0	75.0				
CR24	33-3/4"	48"	65.0	75.0	65.0	75.0	65.0	75.0			
CN24	40-3/4"		65.0	73.5	65.0	75.0	65.0	75.0			
C24	48"		65.0	67.8	65.0	75.0	65.0	75.0			
CW24	56-1/2"		65.0	67.0	65.0	75.0	65.0	75.0			
CX24	62-3/4"		64.8	64.8	65.0	75.0	65.0	75.0			
CXW24	71-5/8"	59.1	59.1	65.0	74.9	65.0	74.9				
CR245	33-3/4"	52-13/16"	65.0	75.0	65.0	75.0	65.0	75.0			
CN245	40-3/4"		65.0	67.8	65.0	75.0	65.0	75.0			
C245	48"		59.4	59.4	65.0	75.0	65.0	75.0			
CW245	56-1/2"		58.6	58.6	65.0	75.0	65.0	75.0			
CX245	62-3/4"		57.6	57.6	65.0	75.0	65.0	75.0			
CXW245	71-5/8"	53.7	53.7	65.0	68.0	65.0	68.0				
CR25	33-3/4"	59-7/8"	65.0	75.0	65.0	75.0	65.0	75.0			
CN25	40-3/4"		62.3	62.3	65.0	75.0	65.0	75.0			
C25	48"		51.0	51.0	65.0	75.0	65.0	75.0			
CW25	56-1/2"		49.2	49.2	65.0	66.3	65.0	69.5			
CX25	62-3/4"		49.0	49.0	62.6	62.6	62.6	62.6			
CXW25	71-5/8"	46.8	46.8	60.0	60.0	60.0	60.0				
CR255	33-3/4"	64-13/16"	65.0	75.0	65.0	75.0	65.0	75.0			
CN255	40-3/4"		59.1	59.1	65.0	75.0	65.0	75.0			
C255	48"		46.8	46.8	65.0	69.8	65.0	69.8			
CW255	56-1/2"		43.8	43.8	59.3	59.3	59.3	59.3			
CR26	33-3/4"		71-7/8"	65.0	75.0	65.0	75.0	65.0	75.0		
CN26	40-3/4"	55.4		55.4	65.0	66.8	65.0	66.8			
C26	48"	42.3		42.3	56.8	56.8	56.8	56.8			
CW26	56-1/2"	37.8		37.8	48.3	48.3	48.3	48.3			

DESIGN LOAD CAPACITY - PSF (TRIPLE UNITS)											
XOX, OOX, XOO, OOO OR XXX											
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'		GLASS TYPE 'C'				
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)			
C33	71-7/8"	35-15/16"	50.0	75.0	50.0	75.0	50.0	75.0			
C335	71-7/8"	40-13/16"	50.0	75.0	50.0	75.0	50.0	75.0			
C34	71-7/8"	48"	50.0	67.8	50.0	72.9	50.0	72.9			
C345	71-7/8"	52-13/16"	50.0	59.4	50.0	60.2	50.0	60.2			
C35	71-7/8"	59-7/8"	46.9	46.9	46.9	46.9	46.9	46.9			
CW33	84-5/8"	35-15/16"	50.0	75.0	50.0	75.0	50.0	75.0			
CW335	84-5/8"	40-13/16"	50.0	75.0	50.0	75.0	50.0	75.0			
CW34	84-5/8"	48"	50.0	62.0	50.0	62.0	50.0	62.0			
CW345	84-5/8"	52-13/16"	50.0	51.2	50.0	51.2	50.0	51.2			
CW35	84-5/8"	59-7/8"	39.8	39.8	39.8	39.8	39.8	39.8			



GLAZING OPTIONS

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0408.01
Expiration Date: JUNE 22, 2013

By: *Manuel...*
Miami/Bade Product Control
Division
MAR 25 2009

GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL \ W03 - 72AC

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

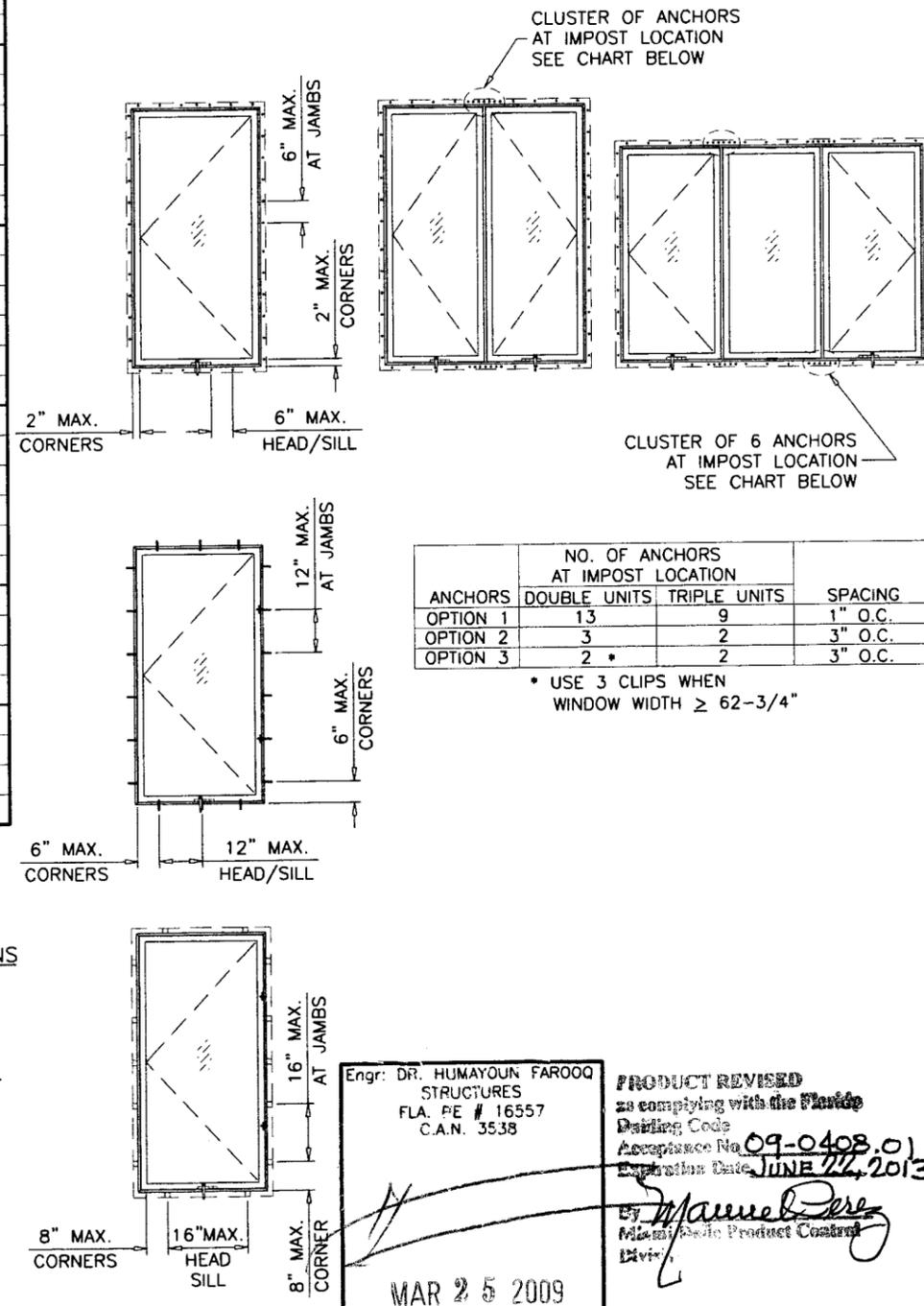
no	date	description
A	02.28.04	CXW SIZES ADDED
B	08.02.04	CW SIZES ADDED
C	07.07.05	CHARTS REV.
D	10.22.07	REV. PER BCCO COMMENTS
E	03.16.09	UPDATED FOR 2007 FBC

date: 08-22-03
scale: 1/2" = 1'
dr. by: HAMID
chk. by:
drawing no. **W03-72**
sheet 2 of 8

ANCHOR LOAD CAPACITY - PSF (SINGLE UNITS) VENTING (X), STATIONARY (O)					
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	ANCHORS	ANCHORS	ANCHORS
			OPTION '1'	OPTION '2'	OPTION '3'
			EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
CR12	17"	24-1/8"	75.0	75.0	75.0
CN12	20-1/2"		75.0	75.0	75.0
C12	24-1/8"		75.0	75.0	75.0
CW12	28-3/8"		75.0	75.0	75.0
CR125	17"	28-3/8"	75.0	75.0	75.0
CN125	20-1/2"		75.0	75.0	75.0
C125	24-1/8"		75.0	75.0	75.0
CW125	28-3/8"		75.0	75.0	75.0
CX125	31-1/2"	75.0	75.0	75.0	
CR13	17"	35-15/16"	75.0	75.0	75.0
CN13	20-1/2"		75.0	75.0	75.0
C13	24-1/8"		75.0	75.0	75.0
CW13	28-3/8"		75.0	75.0	75.0
CX13	31-1/2"		75.0	75.0	75.0
CXW13	35-15/16"		75.0	75.0	75.0
CR135	17"	40-13/16"	75.0	75.0	75.0
CN135	20-1/2"		75.0	75.0	75.0
C135	24-1/8"		75.0	75.0	75.0
CW135	28-3/8"		75.0	75.0	75.0
CX135	31-1/2"	75.0	75.0	75.0	
CXW135	35-15/16"	75.0	75.0	75.0	
CR14	17"	48"	75.0	75.0	75.0
CN14	20-1/2"		75.0	75.0	75.0
C14	24-1/8"		75.0	75.0	75.0
CW14	28-3/8"		72.9	75.0	75.0
CX14	31-1/2"		68.9	75.0	75.0
CXW14	35-15/16"		64.8	75.0	75.0
CR145	17"	52-13/16"	75.0	75.0	75.0
CN145	20-1/2"		75.0	75.0	75.0
C145	24-1/8"		75.0	75.0	75.0
CW145	28-3/8"		70.9	75.0	75.0
CX145	31-1/2"	66.6	75.0	75.0	
CXW145	35-15/16"	62.1	75.0	75.0	
CR15	17"	59-7/8"	75.0	75.0	75.0
CN15	20-1/2"		75.0	75.0	75.0
C15	24-1/8"		74.2	75.0	75.0
CW15	28-3/8"		66.0	75.0	75.0
CX15	31-1/2"	61.5	75.0	75.0	
CXW15	35-15/16"	56.8	75.0	75.0	
CR155	17"	64-13/16"	75.0	75.0	75.0
CN155	20-1/2"		75.0	75.0	75.0
C155	24-1/8"		73.3	75.0	75.0
CW155	28-3/8"		65.0	75.0	75.0
CX155	31-1/2"	60.4	75.0	75.0	
CXW155	35-15/16"	55.4	75.0	75.0	
CR16	17"	71-7/8"	75.0	75.0	75.0
CN16	20-1/2"		75.0	75.0	75.0
C16	24-1/8"		70.1	75.0	75.0
CW16	28-3/8"		61.8	75.0	75.0
CX16	31-1/2"		57.2	75.0	75.0
CXW16	35-15/16"		52.2	75.0	75.0

ANCHOR LOAD CAPACITY - PSF (DOUBLE UNITS) XX, OX, XO OR OO					
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	ANCHORS	ANCHORS	ANCHORS
			OPTION '1'	OPTION '2'	OPTION '3'
			EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
CR23	33-3/4"	35-15/16"	75.0	75.0	75.0
CN23	40-3/4"		75.0	75.0	75.0
C23	48"		75.0	75.0	75.0
CW23	56-1/2"		75.0	75.0	75.0
CX23	62-3/4"	75.0	75.0	75.0	
CXW23	71-5/8"	75.0	75.0	75.0	
CR235	33-3/4"	40-13/16"	75.0	75.0	75.0
CN235	40-3/4"		75.0	75.0	75.0
C235	48"		75.0	75.0	75.0
CW235	56-1/2"		75.0	75.0	75.0
CX235	62-3/4"	74.6	75.0	75.0	
CXW235	71-5/8"	70.3	75.0	75.0	
CR24	33-3/4"	48"	75.0	75.0	75.0
CN24	40-3/4"		75.0	75.0	75.0
C24	48"		75.0	75.0	75.0
CW24	56-1/2"		70.9	75.0	75.0
CX24	62-3/4"	66.2	75.0	75.0	
CXW24	71-5/8"	62.6	75.0	75.0	
CR245	33-3/4"	52-13/16"	75.0	75.0	75.0
CN245	40-3/4"		75.0	75.0	75.0
C245	48"		75.0	75.0	75.0
CW245	56-1/2"		65.8	75.0	75.0
CX245	62-3/4"	61.5	75.0	75.0	
CXW245	71-5/8"	58.3	75.0	75.0	
CR25	33-3/4"	59-7/8"	75.0	75.0	75.0
CN25	40-3/4"		75.0	75.0	75.0
C25	48"		67.6	75.0	75.0
CW25	56-1/2"		59.5	75.0	75.0
CX25	62-3/4"	55.8	75.0	75.0	
CXW25	71-5/8"	53.0	75.0	75.0	
CR255	33-3/4"	64-13/16"	75.0	75.0	75.0
CN255	40-3/4"		71.2	75.0	75.0
C255	48"		63.3	75.0	75.0
CW255	56-1/2"		55.8	75.0	75.0
CR26	33-3/4"	71-7/8"	68.9	75.0	75.0
CN26	40-3/4"		65.1	75.0	75.0
C26	48"		57.9	75.0	75.0
CW26	56-1/2"		51.2	75.0	75.0

ANCHOR LOAD CAPACITY - PSF (TRIPLE UNITS) XOX, OOX, XOO, OOO OR XXX					
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	ANCHORS	ANCHORS	ANCHORS
			OPTION '1'	OPTION '2'	OPTION '3'
			EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
C33	71-7/8"	35-15/16"	75.0	75.0	75.0
C335	71-7/8"	40-13/16"	75.0	75.0	75.0
C34	71-7/8"	48"	69.1	75.0	75.0
C345	71-7/8"	52-13/16"	62.4	75.0	75.0
C35	71-7/8"	59-7/8"	56.7	75.0	75.0
CW33	84-5/8"	35-15/16"	75.0	75.0	75.0
CW335	84-5/8"	40-13/16"	72.0	75.0	75.0
CW34	84-5/8"	48"	62.6	75.0	75.0
CW345	84-5/8"	52-13/16"	56.6	75.0	75.0
CW35	84-5/8"	59-7/8"	51.5	75.0	75.0



WINDOWS CAN BE INSTALLED WITH ANY OF THE FOLLOWING OPTIONS

OPTION 1: BY USING FASTENERS THRU INSTALLATION FLANGE AT 2" FROM CORNERS AND 6" O.C. MAX.

OPTION 2: BY USING FASTENERS THRU WINDOW FRAME INTO STRUCTURE AT 6" FROM CORNERS AND 12" O.C. MAX.

OPTION 3: BY USING FASTENERS THRU INSTALLATION CLIPS AT 8" FROM CORNERS AND 16" O.C. MAX.

SEE SHEETS 4 THRU 7 FOR DETAILS.

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

PRODUCT REVISED
as complying with the Florida
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Acceptance No. 09-0408.01
Expiration Date JUNE 24, 2013

date: 08-22-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

MAR 25 2009

AL-FAROOQ CORPORATION
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COMP-ANL\W03-72AC

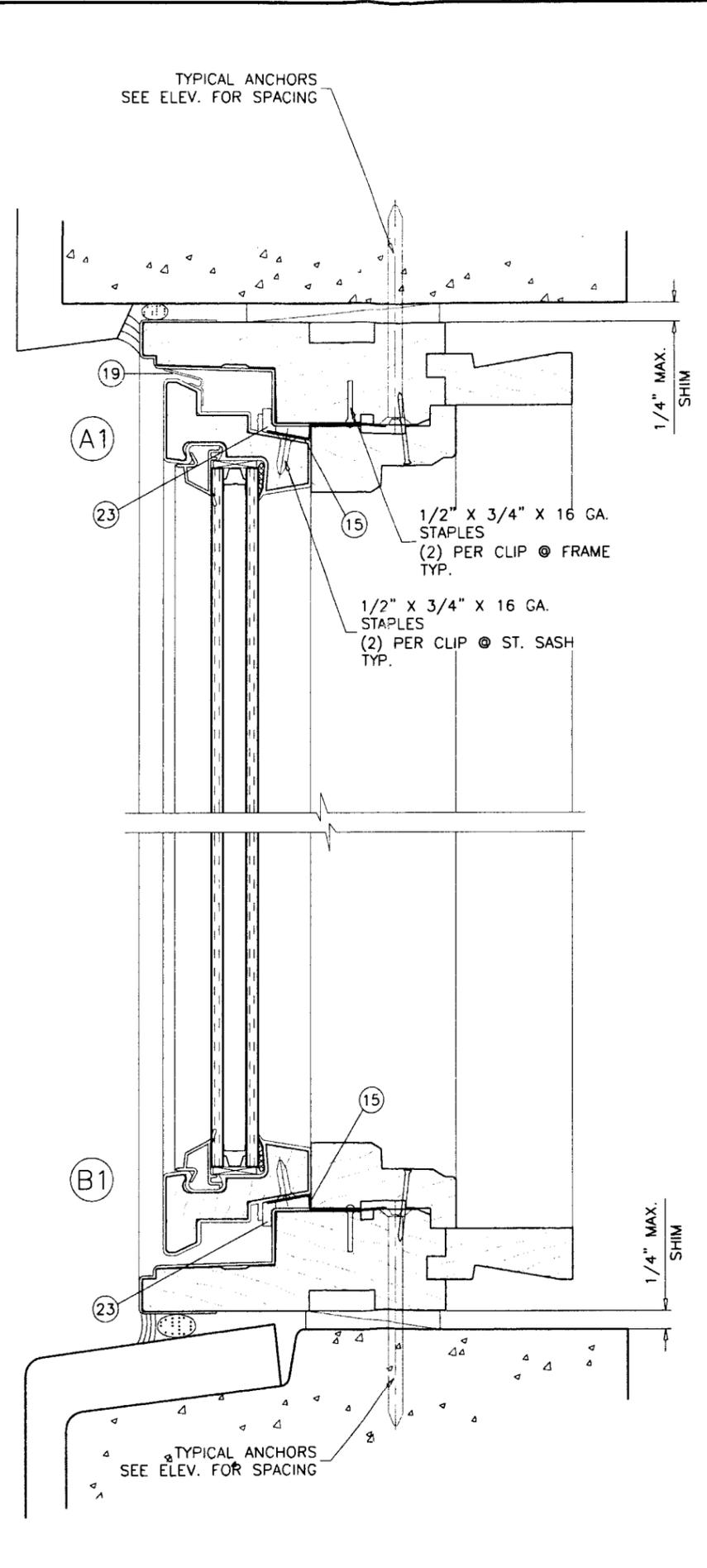
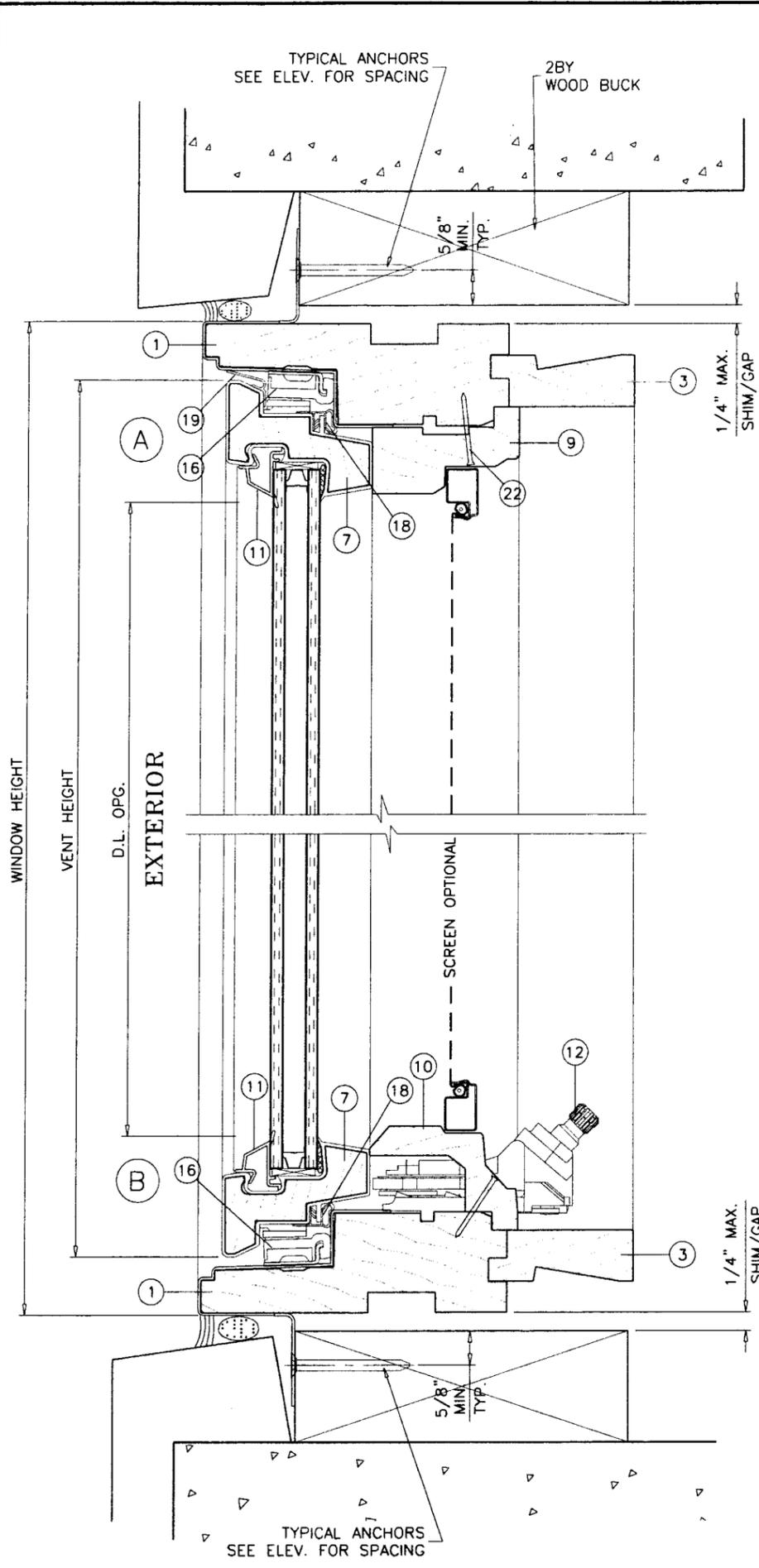
ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL. (800) 426-7691 FAX (-)

revisions:
no. date by description
A 02.28.04 CW SIZES ADDED
B 08.02.04 CW SIZES ADDED
C 07.07.05 CHARTS REV.
D 10.22.07 NO. CHANGE THIS SHEET
E 03.16.09 UPDATED FOR 2007 FCC

date: 08-22-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-72

sheet 3 of 8



LOCKING OPTIONS:
 SURFACE MOUNTED LOCK WITH KEEPERS ON SASH
 (1) POINT LOCK FOR WINDOWS UPTO 28-3/8" HEIGHTS.
 (2) POINT LOCK FOR ALL BIGGER HEIGHTS.

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
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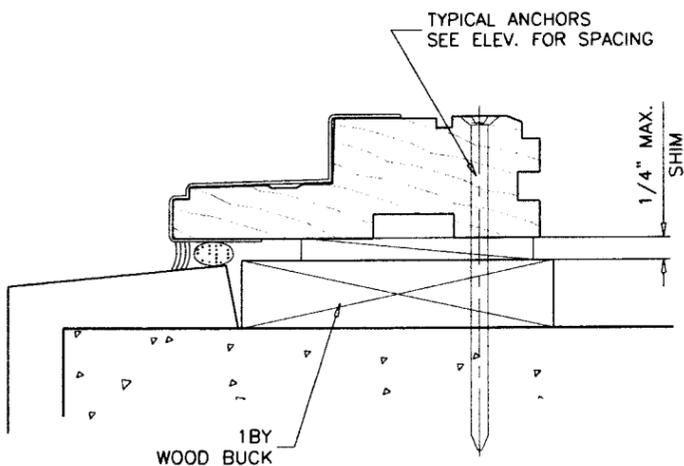
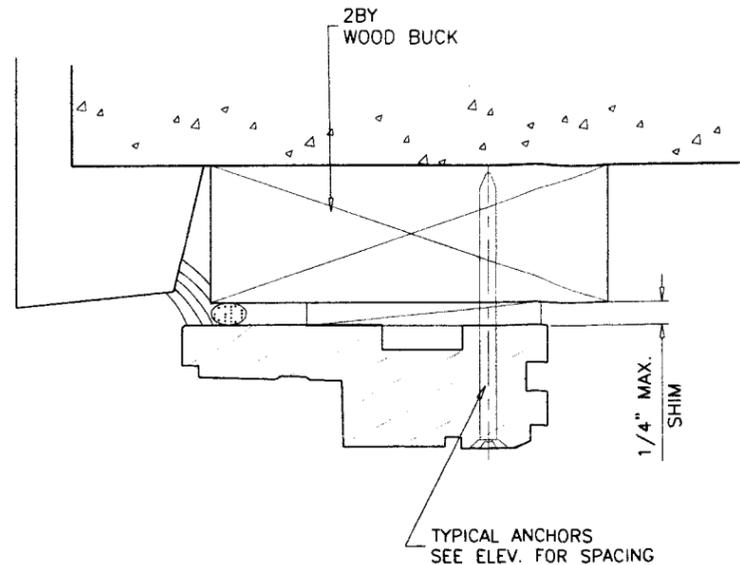
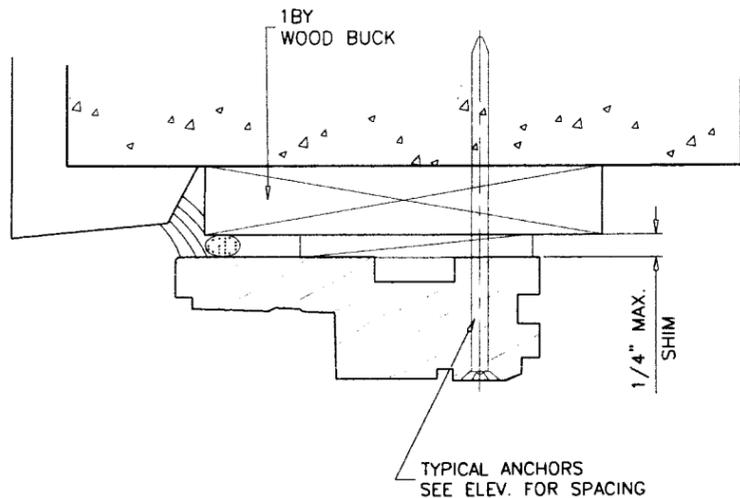
by *Manuel Perez*
 Miami Dade Product Control
 Division

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AL-FAROOQ CORPORATION
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 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
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 COMP-ANL\W03-72AC

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

revisions:	no	date	by	description
	A	02.28.04		NO CHANGE THIS SHEET
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	C	07.07.05		UPDATED FOR 2004 FBC
	D	10.22.07		NO CHANGE THIS SHEET
	E	03.16.09		UPDATED FOR 2007 FBC

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 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no.
W03-72
 sheet 4 of 8



TYPICAL ANCHORS

ANCHORS THRU INSTALLATION FLANGE

ROOFING NAILS, 11GA. X 1-3/4" LONG
 #8 SCREWS WITH 1-1/2" MIN. EMBED
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE

ANCHORS THRU WINDOW FRAME

#12 SMS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-1/2" MIN. PENETRATION INTO WOOD
 1/4" DIA. TAPCONS BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-1/2" MIN. PENETRATION INTO WOOD

THRU WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

ANCHORS THRU INSTALLATION CLIPS

- A: #8 SMS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-1/2" MIN. PENETRATION INTO WOOD
- B: 1/4" DIA. TAPCONS BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-1/2" MIN. PENETRATION INTO WOOD

THRU WOOD BUCKS INTO MASONRY OR DIRECTLY INTO MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1-1/2" MIN.
 INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)

ANCHORS CL TO CL DISTANCE

INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)

CONCRETE f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

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

Engr: DR. HUMAYOUN FAROOQ
 STRUCTURES
 FLA. PE # 16557
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MAR 25 2009

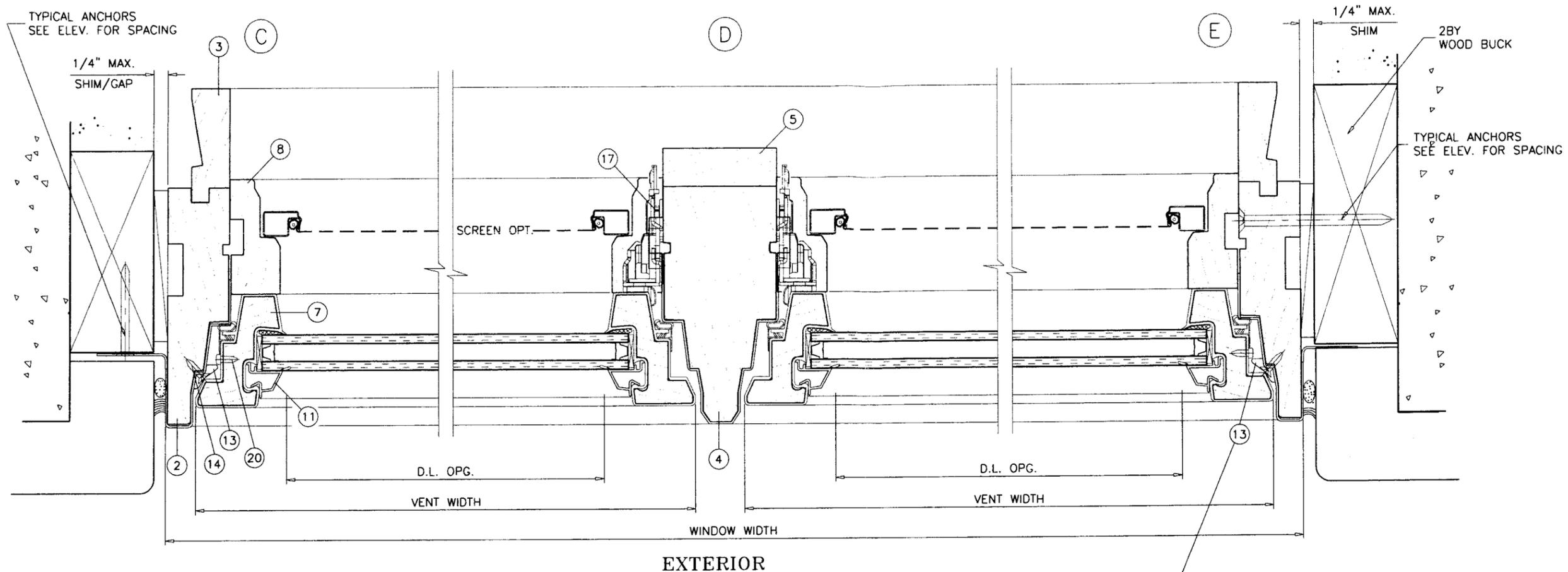
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 Expiration Date JUNE 22, 2013
 By: *Manuel Perez*
 Miami Dade Product Control
 Division

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AL-FAROOQ CORPORATION
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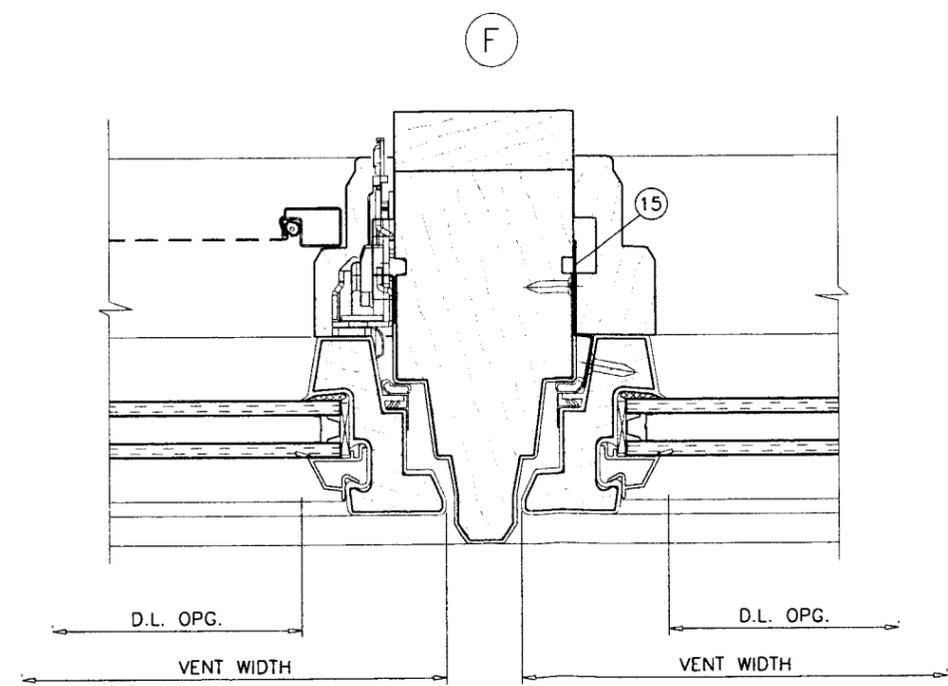
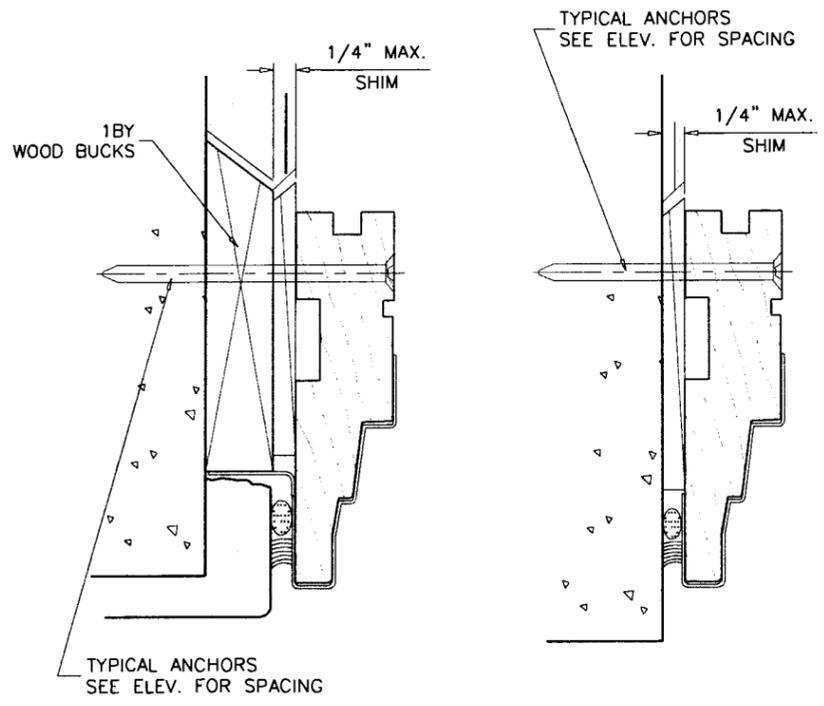
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ANDERSEN CORPORATION
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no.	date	description
A	02.28.04	NO CHANGE THIS SHEET
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D	10.22.07	NO CHANGE THIS SHEET
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 dr. by: HAMID
 ch. by:
 drawing no.
W03-72
 sheet 5 of 8



EXTERIOR



SASH SIZES	NO. OF SNUGGER BRACKETS AT HINGE JAMB
UPTO 27" HEIGHT	0
15-3/4" TO 23" WIDE BY 34-3/8" TO 51-1/4" TALL	1 AT MIDSPAN
27-7/32" TO 34-25/32" WIDE BY 34-1/8" TO 39-1/4" TALL	
15-3/4" TO 23" WIDE BY 58-5/16" TO 70-5/16" TALL	2 AT 10-5/16" FROM MIDSPAN
27-7/32" TO 34-25/32" WIDE BY 46-7/16" TO 51-1/4" TALL	
27-7/32" X 58-5/16"	1 AT MIDSPAN 2 AT 10-5/16" FROM MIDSPAN
30-11/32" TO 34-25/32" WIDE BY 58-5/16" TALL	
27-7/32" TO 34-25/32" WIDE BY 63-1/4" TO 70-5/16" TALL	

Engr: DR. HUMAYOON FAROQ
 STRUCTURES
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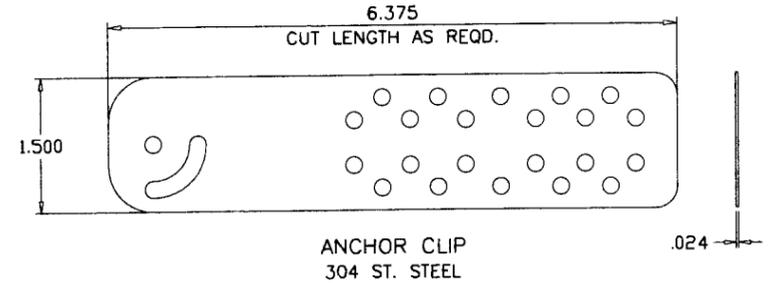
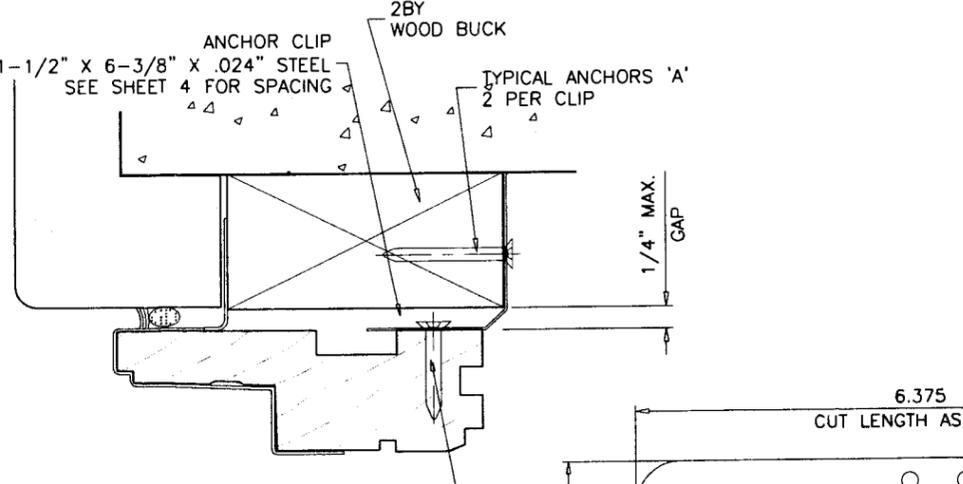
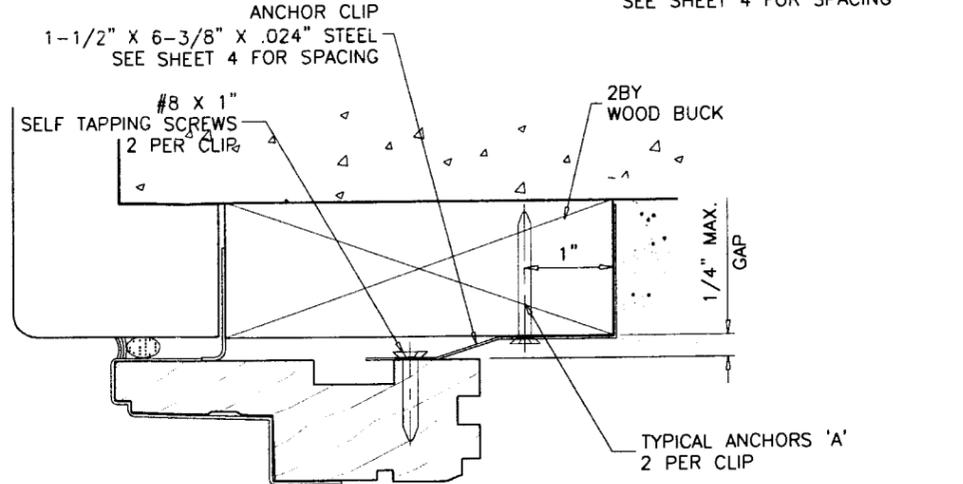
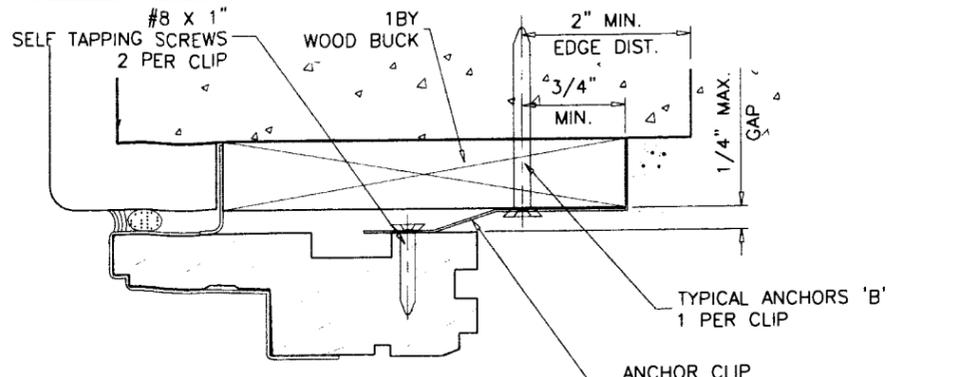
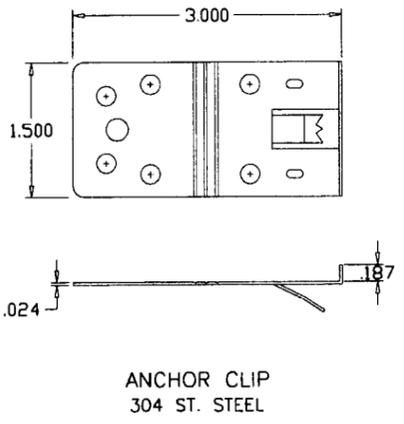
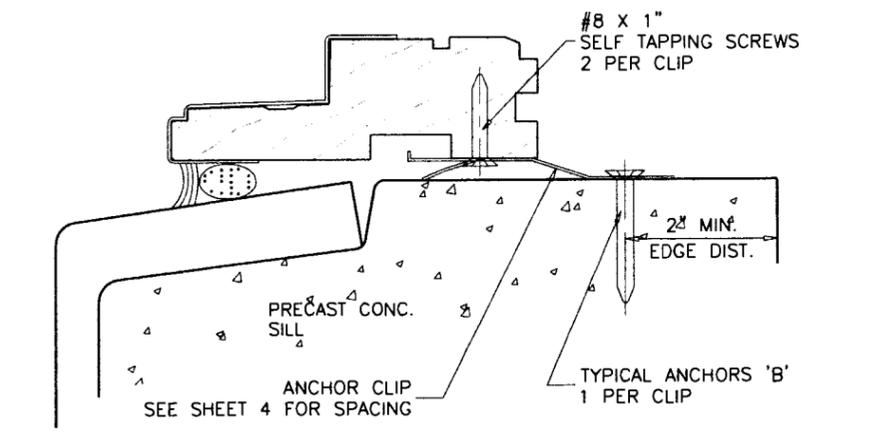
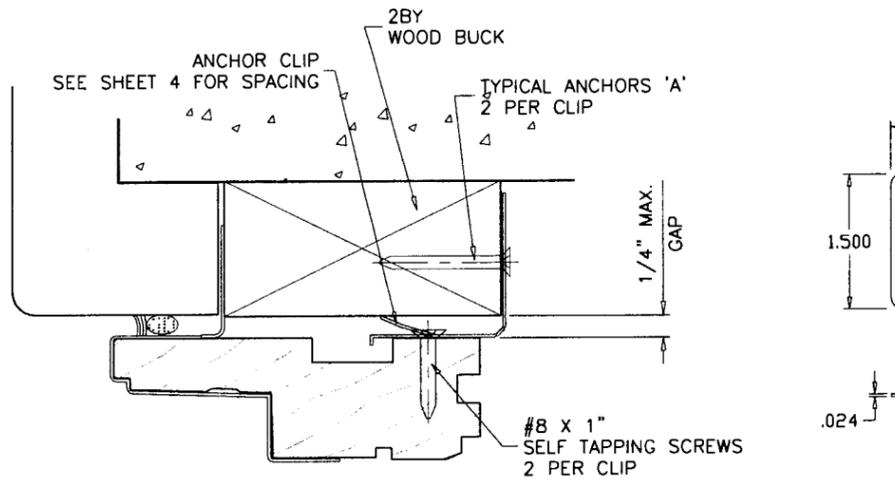
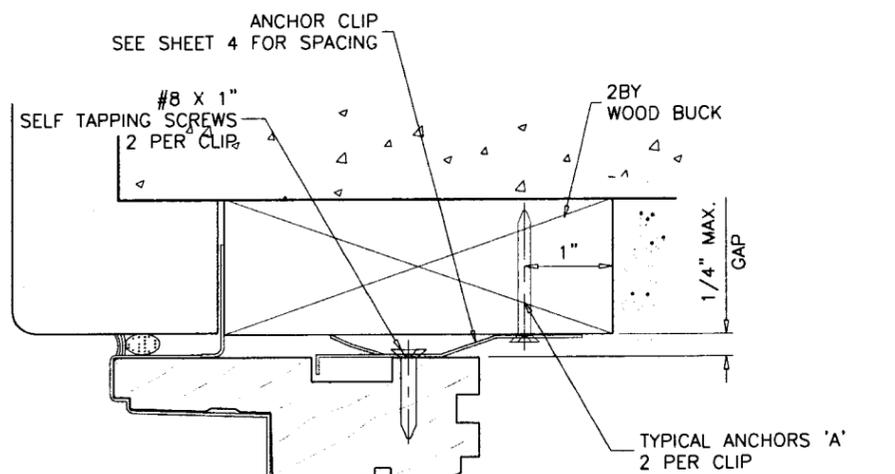
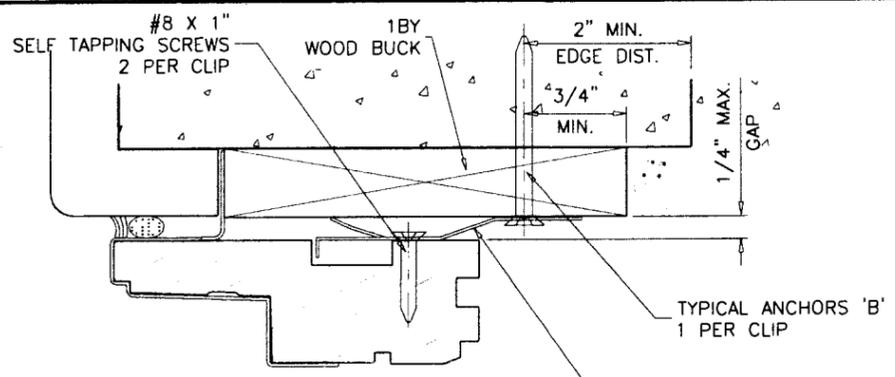
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 Division

MAR 25 2009

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date: 08-22-03
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no. **W03-72**
 sheet 6 of 8



CLIP INSTALLATION DETAILS

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 15557
C.A.N. 3538

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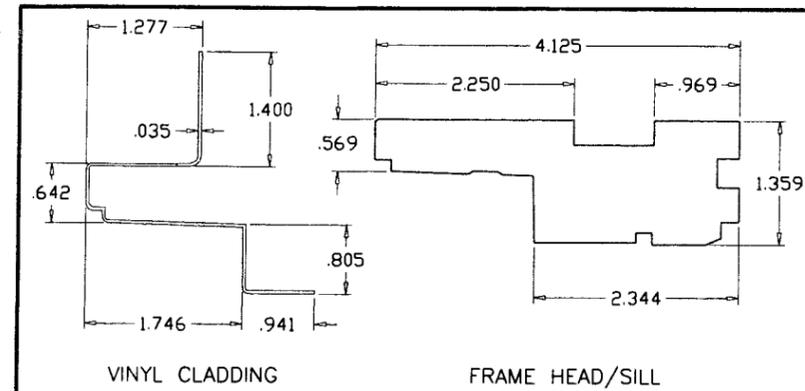
By *Manuel Perez*
Miami Trade Product Control
Division
MAR 25 2009

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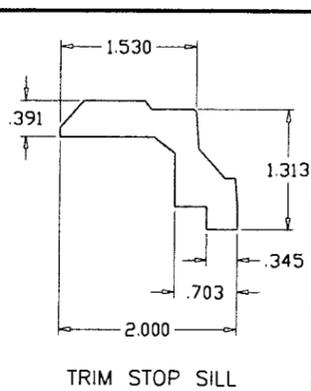
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W03-72
sheet 7 of 8

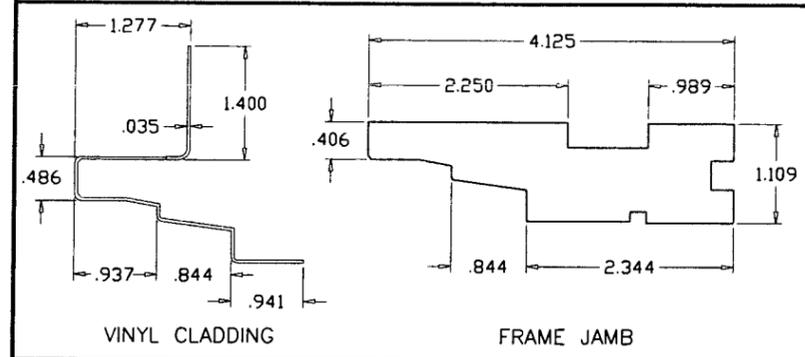


VINYL CLADDING

FRAME HEAD/SILL

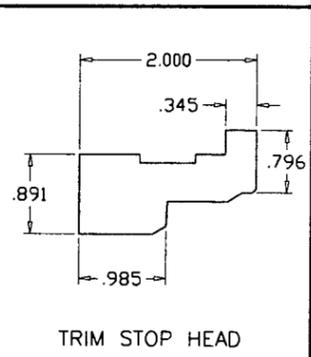


TRIM STOP SILL

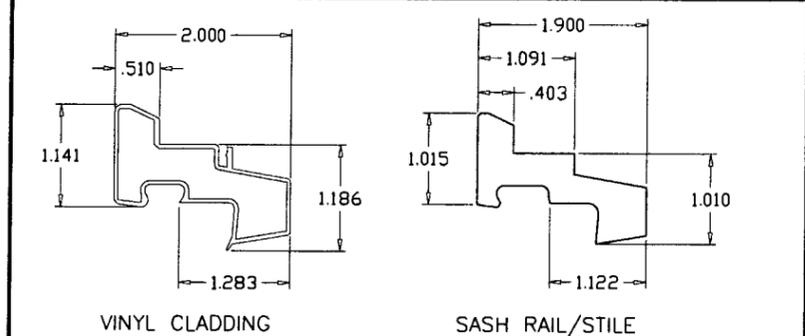


VINYL CLADDING

FRAME JAMB

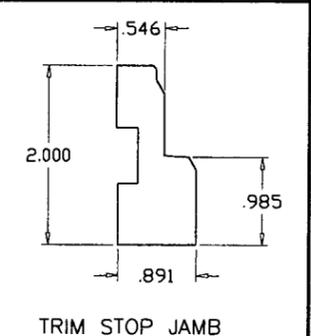


TRIM STOP HEAD

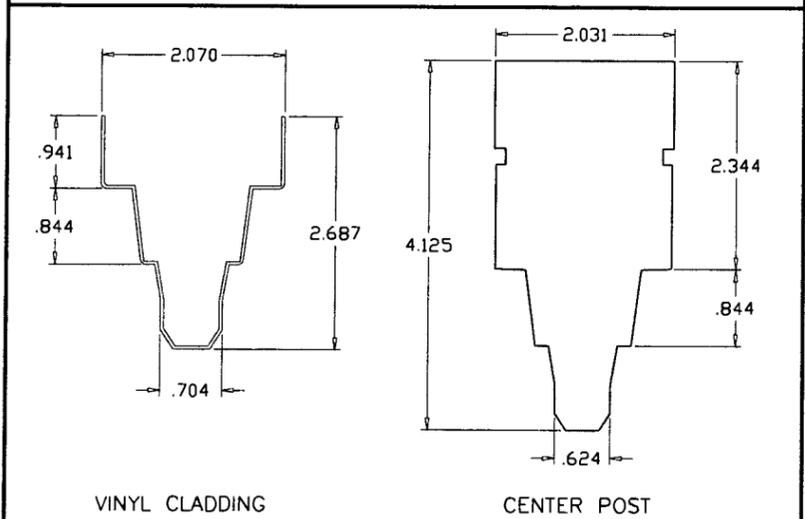


VINYL CLADDING

SASH RAIL/STILE

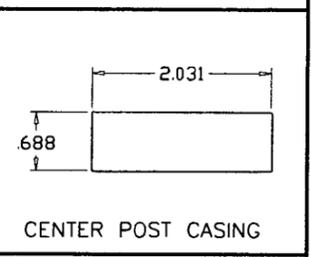


TRIM STOP JAMB

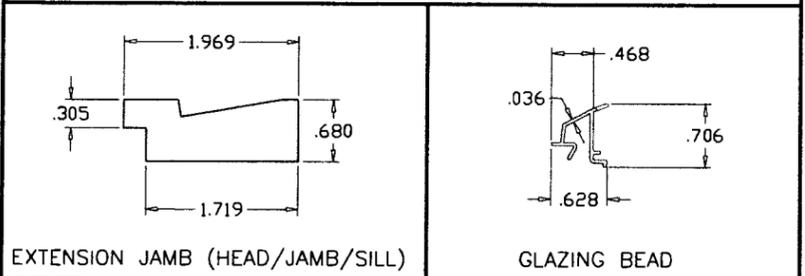


VINYL CLADDING

CENTER POST

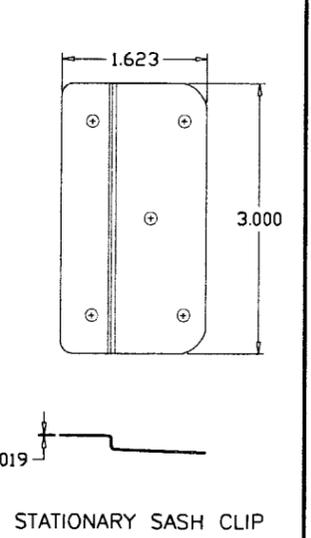


CENTER POST CASING



EXTENSION JAMB (HEAD/JAMB/SILL)

GLAZING BEAD



STATIONARY SASH CLIP

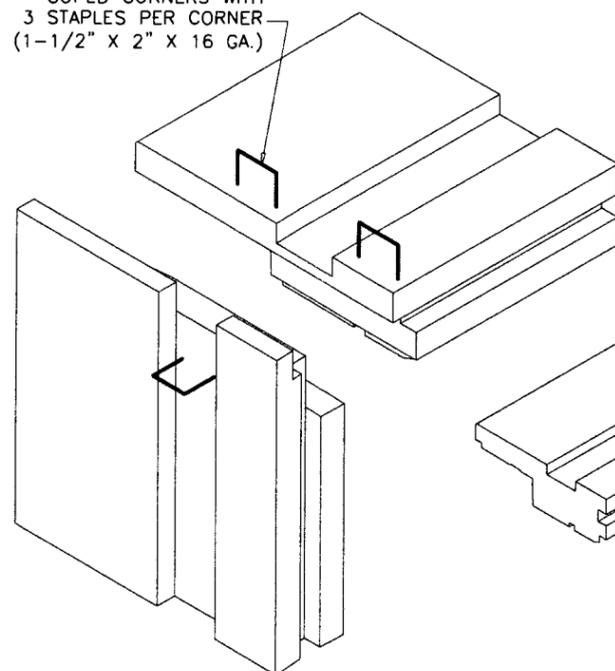
ITEM #	NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	30835	AS REQD.	FRAME HEAD/SILL	WOOD	ANDERSEN
2	30838	AS REQD.	FRAME JAMB	WOOD	ANDERSEN
3	-	OPTIONAL	EXTENSION JAMBS	WOOD	ANDERSEN
4	30839	1	POST MULLION	WOOD	ANDERSEN
5	30056	1	CASING MULLION	-	-
6	-	-	-	-	-
7	30013	-	SASH RAIL/STILE	WOOD	ANDERSEN
8	-	2/ WDW.	TRIM STOP JAMB	WOOD	ANDERSEN
9	30840/41	1/ WDW.	TRIM STOP HEAD	WOOD	ANDERSEN
10	30843/45	1/ WDW.	TRIM STOP SILL	WOOD	ANDERSEN
11	35031/32	AS REQD.	GLAZING BEAD	PVC	-
12	30810/12	1/ SASH	OPERATOR	STEEL	-
13	30241	AS REQD.	SNUGGER BRACKET	POLYCARBONATE	SEE SHEET 4 FOR QUANTITIES
14	#8 X 1/2"	AS REQD.	SNUGGER SCREWS	-	-
15	30053	-	STATIONARY SASH CLIP	GALV. STEEL	-
16	-	2/ SASH	HINGE ASEMBLY AT TOP & BOTTOM OF SASH	STEEL	-
17	-	AS REQD.	LOCK W/ KEEPERS ON SASH	STEEL	-
18	30213/14	AS REQD.	WEATHERSTRIP	-	-
19	30021	AS REQD.	WATERBAR WEATHERSTRIP	-	-
20	30240	AS REQD.	SNUGGER PIN	-	-
21	-	-	-	-	-
22	-	AS REQD.	BRAD NAILS 1-1/2" LONG	GALV. STEEL	-
23	30172	-	FOAM WEATHERSTRIPPING	-	-

ALL WOOD TO BE PONDEROSA PINE OR EQUAL

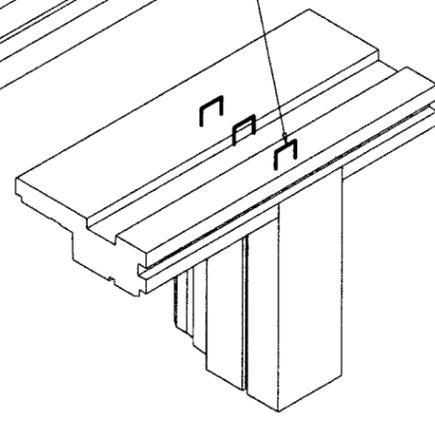
VINYL CLADDING CORNERS
MITER CUT
WELDED ALL AROUND

COPED CORNERS WITH
3 STAPLES PER CORNER
(1-1/2" X 2" X 16 GA.)

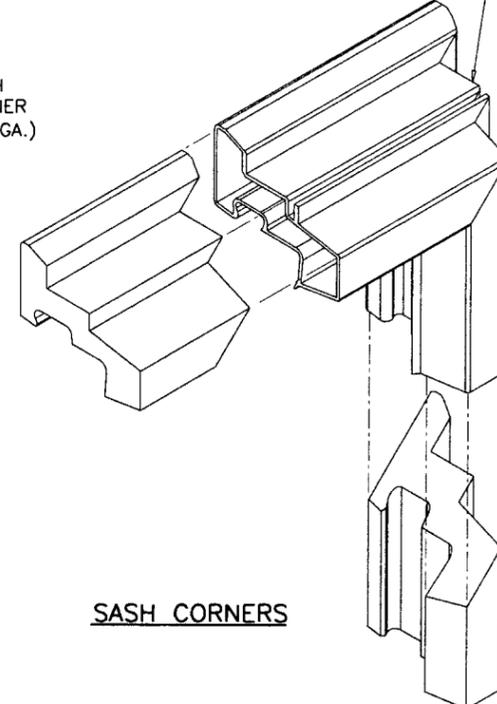
COPED CORNERS WITH
3 STAPLES PER CORNER
(1-1/2" X 2" X 16 GA.)



FRAME CORNERS



CENTER POST CORNER



SASH CORNERS

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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. D9-0408.01
Expiration Date JUNE 22, 2013

By Mauro Perez
Miami Dade Product Control
Division
MAR 25 2009

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-72AC

'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
A	02.28.04	NO CHANGE THIS SHEET
B	06.02.04	NO CHANGE THIS SHEET
C	07.07.05	UPDATED FOR 2004 FBC
D	10.22.07	NO CHANGE THIS SHEET
E	03.16.09	UPDATED FOR 2007 FBC

date: 08-22-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-72
sheet 8 of 8