



**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](http://www.miamidade.gov/buildingcode)

**Caoba Doors**  
**4918 Cedar Ave.**  
**PO Box 19830**  
**Philadelphia, PA 19143**

**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 "Mahogany DH" Wood Double Hung Window – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. CAB003, titled "Mahogany DH Window", sheets 1 through 6 of 6, dated 04/27/09, prepared by manufacturer, signed and sealed by Kristina S. Daugherty, 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.

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

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name:

**Caoba Doors, S.A. Km 43.5 Finca San Isidro, Jocotenango, Sacatepequez, Guatemala, Central America** and the following statement: **"Miami-Dade County Product Control Approved"**

**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 consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



**NOA No. 08-1007.08**  
**Expiration Date: July 1, 2014**  
**Approval Date: July 1, 2009**  
**Page 1**

**Caoba Doors**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **CAB003**, Sheets 1 through 6 of 6, titled "Mahogany Double Hung Window", dated 04/27/09, prepared by Certworks, LLC, signed and sealed by Kristina S. Daugherty, 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) 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, TAS 202-94along with marked-up drawings and installation diagram of a mahogany double hung window, prepared by Certified Testing Laboratories, Test Report No. **CTLA-1806W-1**, dated 03/25/08 and 04/27/29, signed and sealed by Ramesh Patel, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2004 and 2007, dated 04/27/09, prepared, signed and sealed by Kristina S. Daugherty, P.E.  
**Complies with ASTM E1300-04**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass ® Plus**" dated 01/03/08, expiring on 01/14/12.

**F. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated April 27, 2009, signed and sealed by Kristina S. Daugherty, P.E.

**G. OTHER**

1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 08-1007.08  
Expiration Date: July 1, 2014  
Approval Date: July 1, 2009

# CAOBA DOORS

## MAHOGANY DOUBLE HUNG WINDOW

### INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE ) 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
  - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

### GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2007 FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: MAHOGANY
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAIL.

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	A	INSTALLATION & GENERAL NOTES
2	-	ELEVATION & ANCHOR LAYOUT
3	-	VERTICAL SECTIONS
4	-	HORIZONTAL SECTIONS & GLAZING DETAILS
5	-	COMPONENTS
6	-	COMPONENTS & BILL OF MATERIAL

DESIGN PRESSURE RATING		
GLAZE TYPE	DESIGN PRESSURE - ALL SIZES	MISSILE IMPACT RATING
1	+100/-100 PSF	SMALL AND LARGE MISSILE IMPACT RATED



CAOBA DOORS  
Km43.5 Finca San Isidro Jocotenango  
Sacatepequez, Guatemala  
PH: (215) 525-5048 FX: (215) 747-8909

TITLE: MAHOGANY DH WINDOW  
INSTALLATION & GENERAL NOTES  
PREPARED BY: CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366

REVISIONS	NO.	DESCRIPTION	DATE	BY	DATE
	A	REVISED DESIGN PRESSURE TABLE	06.02.09		

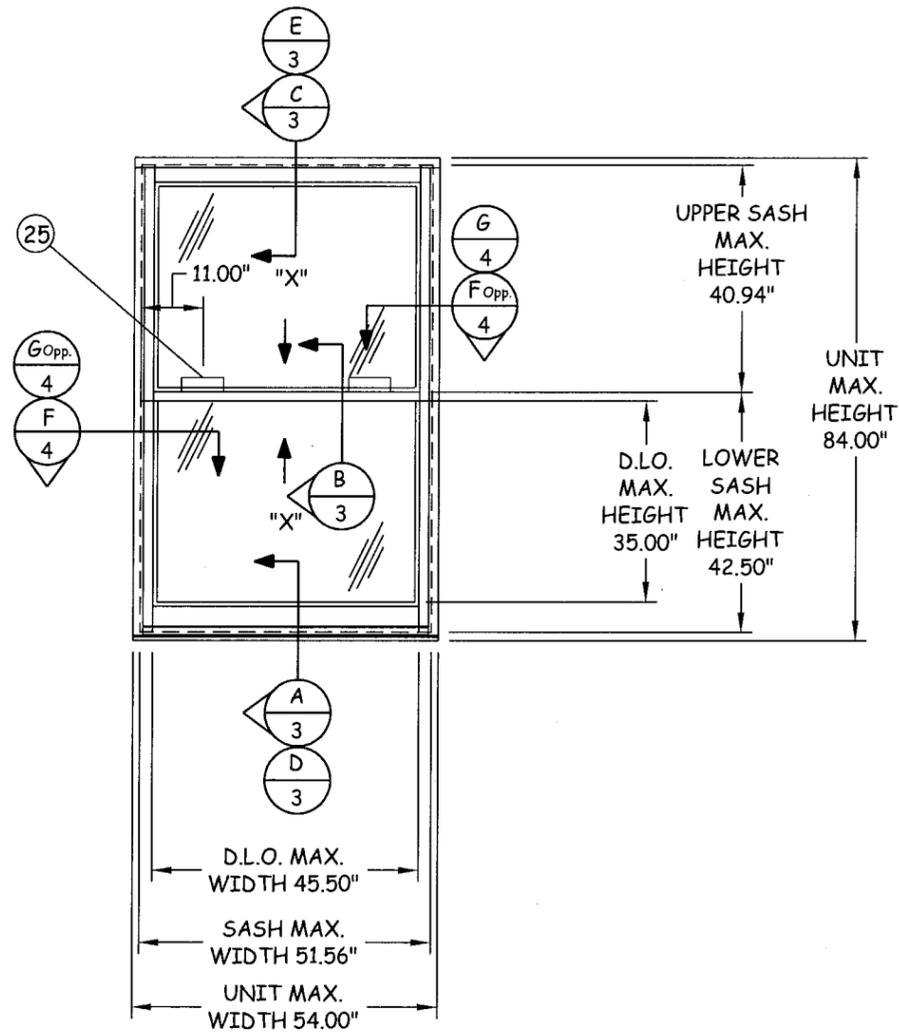
*Kristina S. Daligherty*  
6-2-09  
KRISTINA S. DALIGHERTY  
FLORIDA P.E. NO. 58945  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
FEBE CERT. OF AUTHORIZATION NO. 08820

Approved as complying with the Florida Building Code  
Date JULY 1, 2009  
NOA# 08-1007.08  
Miami Date Product Control  
Division  
By *Manuel Perez*

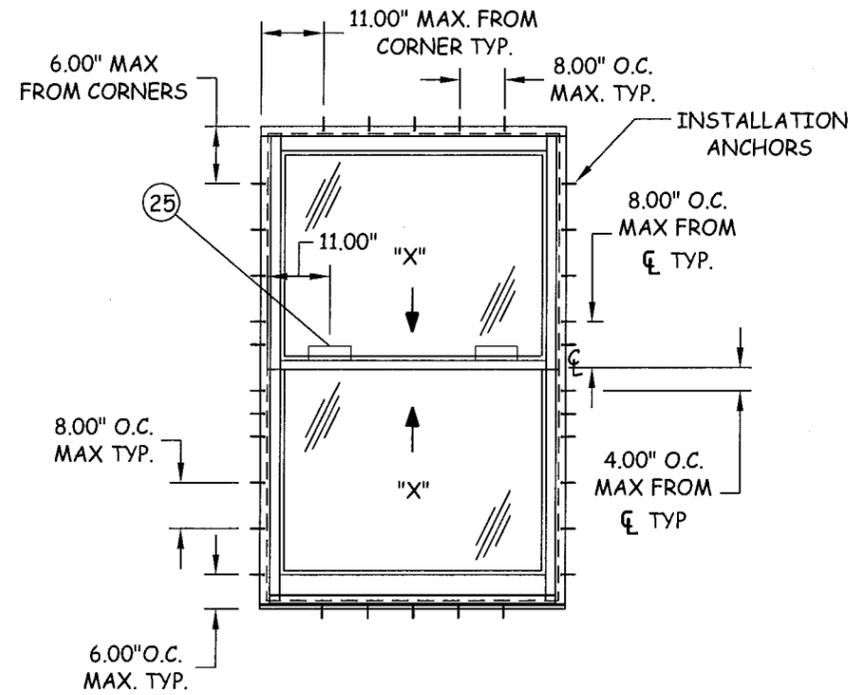
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DWN BY: GRN  
CHK BY: HN  
SCALE: NTS  
DWG #: CAB003  
SHEET: 1 OF 6

TITLE: MAHOGANY DH WINDOW  
 ELEVATION &  
 ANCHOR LAYOUT

PREPARED BY:  
 CERTWORKS, LLC  
 127 W. FAIRBANKS AVE., STE. 438  
 WINTER PARK, FL 32789  
 PH: (407) 644-6957 FX: (407) 644-2366



**ELEVATION**



**ANCHOR LAYOUT**

REVISIONS	
NO.	DESCRIPTION

*Kristina S. Daligherty*  
 4-27-09  
 KRISTINA S. DALIGHERTY  
 FLORIDA P. E. NO. 68455  
 127 W. FAIRBANKS AVE. STE. 438  
 WINTER PARK, FL 32789  
 FBSE CERT. OF AUTHORIZATION NO. 26520

Approved as complying with the  
 Florida Building Code  
 Date JULY 1, 2009  
 NCAP 08-1007.08  
 Miami Code Product Control  
 By Manuel Perez

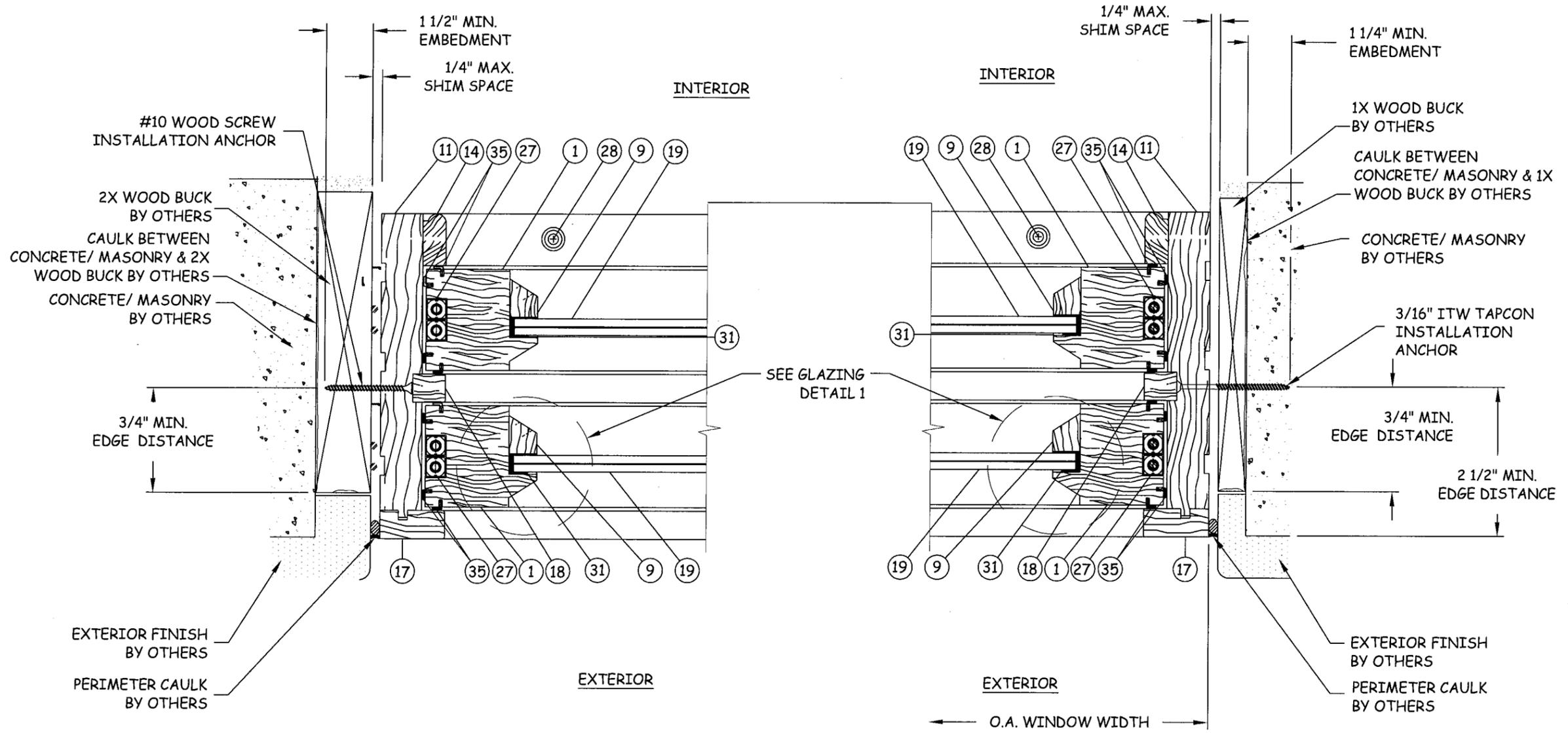
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 CHK BY: HN  
 SCALE: NTS

DWG #: **CAB003**  
 SHEET: 2 OF 6



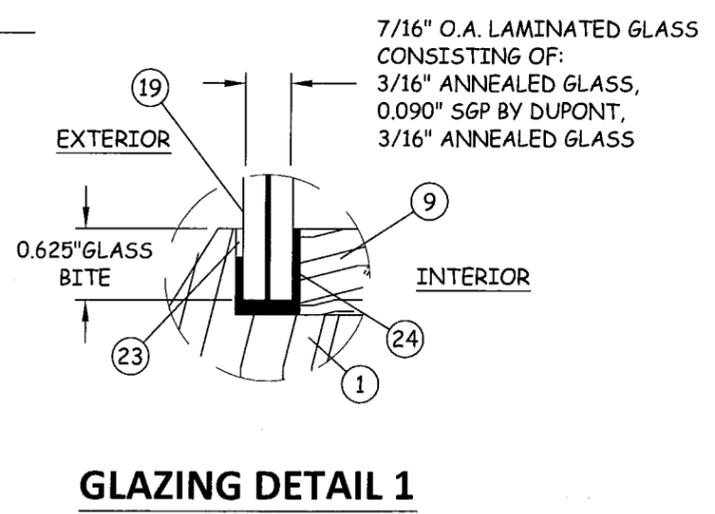
TITLE: MAHOGANY DH WINDOW  
HORIZONTAL SECTIONS &  
GLAZING DETAIL

PREPARED BY:  
CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366



**F**  
**4** HORIZONTAL SECTION  
JAMB - 2X WOOD BUCK

**G**  
**4** HORIZONTAL SECTION  
JAMB - CONCRETE/MASONRY



NO.	REVISIONS DESCRIPTION	BY	DATE

*Kristina S. Dalcherry*  
4-27-09  
KRISTINA S. DALCHERRY  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
FBI CERT. OF AUTHORIZATION NO. 28520

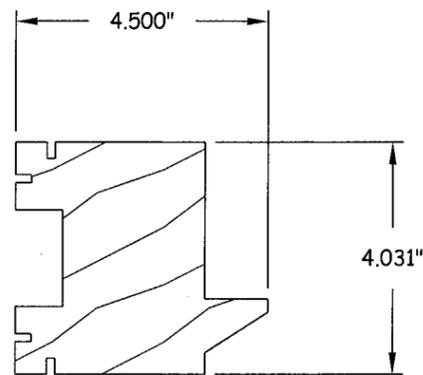
Approved in compliance with the  
Florida Building Code  
Date JULY 1, 2009  
NOA 08-1007-08  
Minimum Basic Product Control  
By *Manuel Perez*

DATE: 04.27.09  
DWN BY: GRN  
CHK BY: HN  
SCALE: NTS

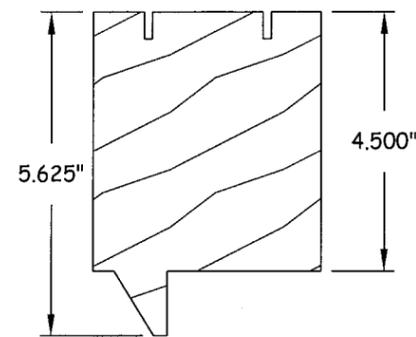
DWG #: CAB003  
SHEET: 4 OF 6

TITLE: MAHOGANY DH WINDOW COMPONENTS  
 PREPARED BY: CERTWORKS, LLC  
 127 W. FAIRBANKS AVE., STE. 438  
 WINTER PARK, FL 32789  
 PH: (407) 644-6957 FX: (407) 644-2366

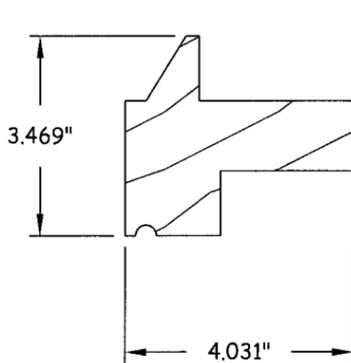
1 SASH STILE WOOD



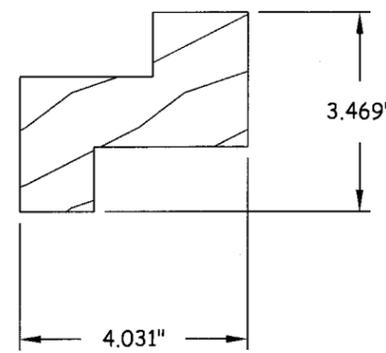
2 SASH TOP RAIL WOOD



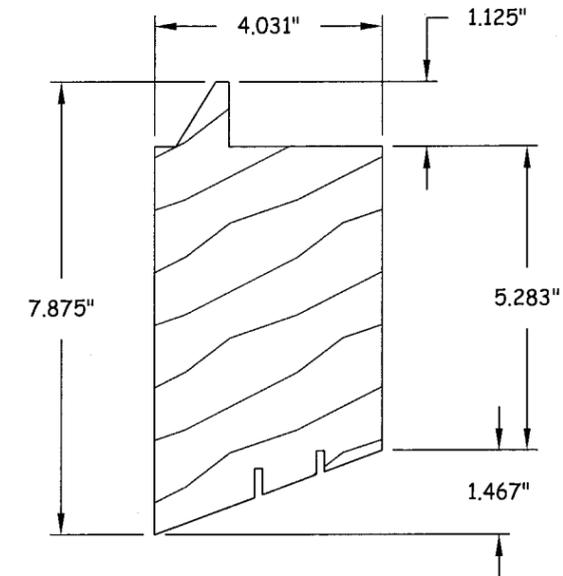
3 SASH TOP RAIL WOOD



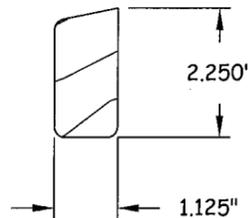
4 SASH BOTTOM RAIL WOOD



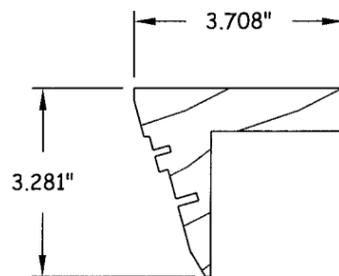
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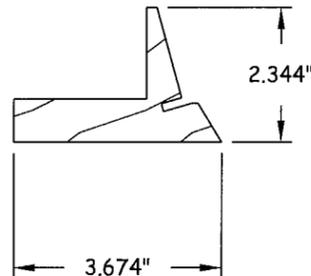
6 WOOD DRIP WOOD



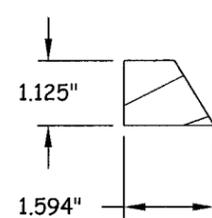
7 INTERLOCK WOOD



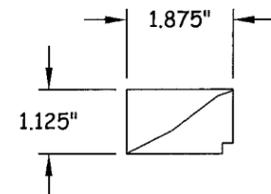
8 INTERLOCK WOOD



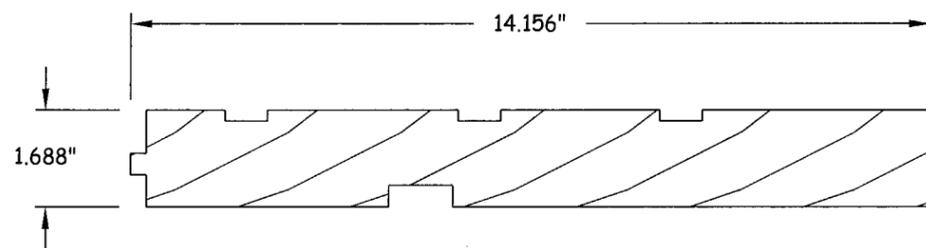
9 GLASS STOP WOOD



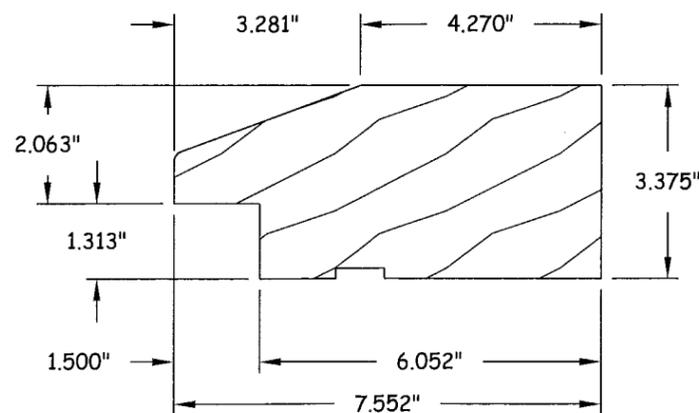
10 GLASS STOP WOOD



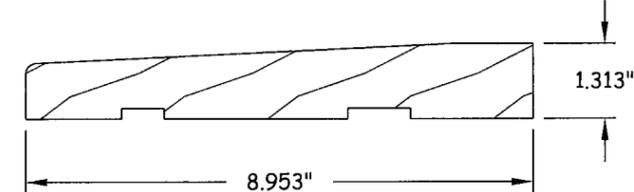
11 HEAD AND JAMB WOOD



12 SILL WOOD



13 SILL EXTENSION WOOD



## REVISIONS

NO.	DESCRIPTION	BY	DATE

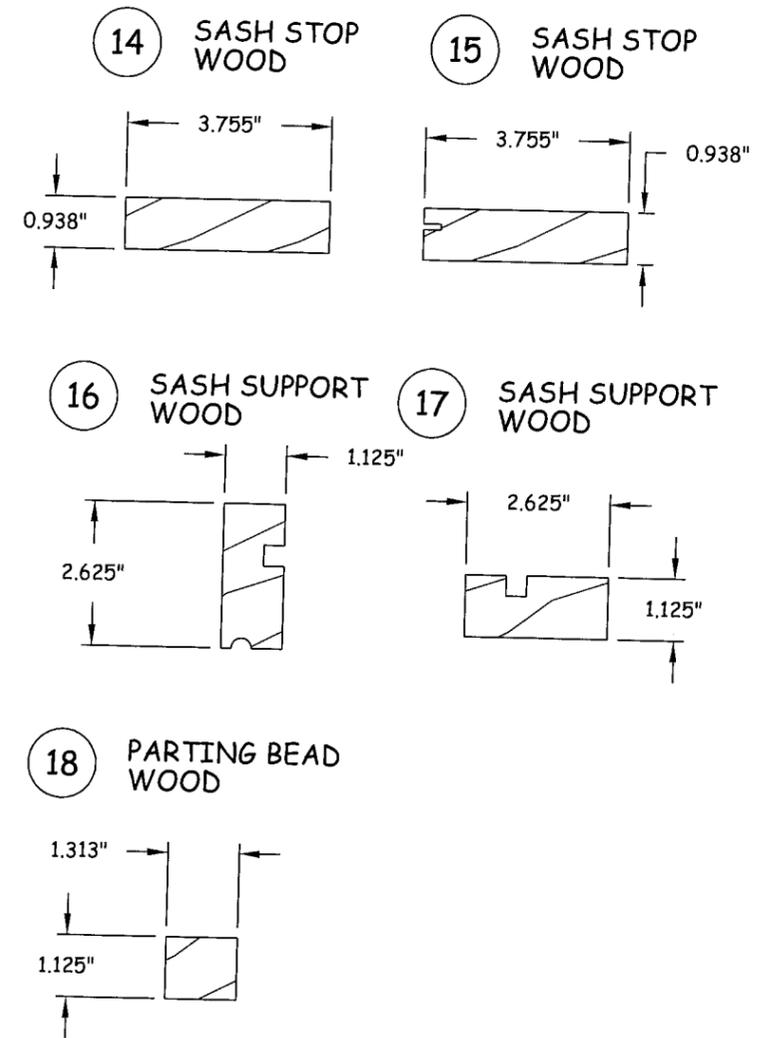
*Kristina S. O'Riagherty*  
 4-27-09  
 KRISTINA S. O'RIAGHERTY  
 FLORIDA F.C. NO. 08455  
 127 W. FAIRBANKS AVE., STE. 438  
 WINTER PARK, FL 32789  
 FBPE CERT. OF AUTHORIZATION NO. 28680

Approved as complying with the  
 Florida Building Code  
 Date: JULY 1, 2009  
 NOAH 08-1007.08  
 Miami Dade Product Control  
 Division  
 By: *Manuel Perez*

DATE: 04.27.09  
 DWN BY: GRN  
 CHK BY: HN  
 SCALE: NTS  
 DWG #: CAB003  
 SHEET: 5 OF 6

## BILL OF MATERIALS

ITEM NO.	DESCRIPTION	PART NUMBER	MATERIAL	MANUFACTURER
1	SASH STILE		MAHOGANY	CAOBA DOORS
2	SASH TOP RAIL		MAHOGANY	CAOBA DOORS
3	SASH TOP RAIL		MAHOGANY	CAOBA DOORS
4	SASH BOTTOM RAIL		MAHOGANY	CAOBA DOORS
5	SASH BOTTOM RAIL		MAHOGANY	CAOBA DOORS
6	WOOD DRIP		MAHOGANY	CAOBA DOORS
7	INTERLOCK		MAHOGANY	CAOBA DOORS
8	INTERLOCK		MAHOGANY	CAOBA DOORS
9	GLASS STOP		MAHOGANY	CAOBA DOORS
10	GLASS STOP		MAHOGANY	CAOBA DOORS
11	HEAD AND JAMB		MAHOGANY	CAOBA DOORS
12	SILL		MAHOGANY	CAOBA DOORS
13	SILL EXTENSION		MAHOGANY	CAOBA DOORS
14	SASH STOP		MAHOGANY	CAOBA DOORS
15	SASH STOP		MAHOGANY	CAOBA DOORS
16	SASH SUPPORT		MAHOGANY	CAOBA DOORS
17	SASH SUPPORT		MAHOGANY	CAOBA DOORS
18	PARTING BEAD		MAHOGANY	CAOBA DOORS
19	7/16" LAMINATED GLASS		GLASS	TECNOGLASS
20	STEEL BAR, 1/4" x 1 1/2"		STEEL	
21	#12 x 1 1/2" SCREW		STEEL	
22	10 mm x 1" SCREW		STEEL	
23	TAPE GLAZING			ARLON
24	SG-20 SILICONE SEALANT			SIKAFLEX
25	CAM LOCKS	LKF14	STEEL	PHELPS
26	WEATHER STRIPPING	QEZ-100		SCHLEGEL
27	CONCEALED BALANCE			STRYBUC
28	GROMMET			PHELPS
29	WEATHER STRIPPING	AP-427		SCHLEGEL
30	STEEL BAR		STEEL	
31	TAPE GLAZING			SCHLEGEL
32	SASH LIFT	LFM26		PHELPS
33	WEATHER STRIPPING	QWS-21		SCHLEGEL
34	WEATHER STRIPPING	QEZ-320		SCHLEGEL
35	WEATHER STRIPPING	QWS-320		SCHLEGEL



CAOBA DOORS  
Km43.5 Finca San Isidro Jocotenango  
Sacatepequez, Guatemala  
PH: (215) 525-5048 FX: (215) 747-8909

TITLE: MAHOGANY DH WINDOW COMPONENTS & BILL OF MATERIALS  
PREPARED BY: CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366

REVISIONS	DESCRIPTION	NO.	BY	DATE

*Kristina S. Dalbey*  
4-27-09  
KRISTINA S. DALBEY  
FLORIDA P. E. NO. 68455  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
FPE CERT. OF AUTHORIZATION NO. 28580

Approved as complying with the Florida Building Code  
Date: July 1, 2009  
NOA# 08-1007-08  
Minimum Date for Project Control  
By: *Manuel Perez*

DATE: 04.27.09  
DWN BY: GRN  
CHK BY: HN  
SCALE: NTS  
DWG #: CAB003  
SHEET: 6 OF 6