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Product Evaluation Report

of

Caoba Doors
Mahogany Outswing Single Casement Windows

for

Florida Product Approval

FL# FL14297

Report No. 5400

Current Florida Building Code

Method:	**1 – D (Engineering Evaluation)**
Category:	**Windows**
Sub – Category:	**Casement**
Product:	***Mahogany Outswing Single Casement Windows***
Material:	**Mahogany (Min. S.G.=0.45)**
Product Dimensions:	***54" x 84"***

Prepared For:
Caoba Doors
4918 Cedar Avenue
Philadelphia, PA 19143

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 12/18/17

Contents:

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.12.18 20:54:49 -05'00'

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Hermes F. Norero, P.E.
Florida No. 73778

Manufacturer: **Caoba Doors**

Product Category: Windows

Product Sub-Category: Casement

Compliance Method: State Product Approval Method (1)(d)

Product Name: **Mahogany Outswing Double Casement Windows**
54" x 84"
(Impact Rated)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Caoba Doors** based on Method 1d of the State of Florida Product Approval, Florida Department of Business and Professional Regulation - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the current Florida Building Code.

See Installation Instructions **CAB028**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the current Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the current Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of **CAB028** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **CAB028** for size and design pressure limitations.

Certification Agency: The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by and approved by **National Accreditation & Management Institute** (FBC Organization #: QUA1789).

Performance Standards: The product described herein has been tested per:

- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by **Certified Testing Laboratories**
   (FBC Organization #: TST1577)
   Report #: CTLA 3023W-2, Report Date: 12/18/15
   Report #: CTLA 1806W, Report Date: 03/20/08
   Signed and Sealed by: Ramesh Patel, P.E. # 20224

2. Quality Assurance
   National Accreditation & Management Institute
   (FBC Organization #: QUA1789)

3. Material Certification
   Miami-Dade County RER Notice of Acceptance
   Kuraray America SentryGlas Interlayer
   (Previously by DuPont)

Installation: 1. Approved anchor types and substrates are as follows:

A. For two by (2X) wood frame substrate, use **#10 Wood Screw** type wood frame anchors of sufficient length to achieve minimum embedment of 1-1/2" into wood framing.

B. For concrete or masonry substrate where wood bucking is NOT employed, use **3/16" ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1-1/4" into concrete or masonry.

C. For concrete or masonry substrate where wood bucking is employed, use **3/16" ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1-1/4" into concrete or masonry.

Refer to manufacturer Installation Instructions **CAB028** for anchor spacing and more details of the installation requirements.

Design Pressure:

Configuration	Design Pressure
X	+100/-100 PSF