

FL # FL13534
 Application Type New
 Code Version 2007
 Application Status Pending FBC Approval
 Comments Recommend Conditional Approval - Provide document in English that indicates the ownership of the test report by applicant.
 Archived

 Product Manufacturer Madena
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 Technical Representative
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 Quality Assurance Representative
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 Category Windows
 Subcategory Casement

 Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
 Evaluation Report - Hardcopy Received

 Florida Engineer or Architect Name who developed the Evaluation Report Pedro De Figueiredo
 Florida License PE-52609
 Quality Assurance Entity National Accreditation and Management Institute
 Quality Assurance Contract Expiration Date 12/31/2010
 Validated By Jesus Gonzalez, P.E.
 Validation Checklist - Hardcopy Received

 Certificate of Independence FL13534_R0_COI_10-036 CI1.pdf

 Referenced Standard and Year (of Standard)

Standard	Year
TAS 201, 203	1994
TAS 202	1994

 Equivalence of Product Standards Certified By

 Sections from the Code

 Product Approval Method Method 1 Option D

 Date Submitted 03/01/2010
 Date Validated 03/02/2010
 Date Pending FBC Approval 03/05/2010

Summary of Products

FL #	Model, Number or Name	Description
13534.1	Series C4000 Mahogany Casement Impact Windows	Mahogany Casement Impact Window.

Limits of Use

Approved for use in HVHZ: Yes
Approved for use outside HVHZ: Yes
Impact Resistant: Yes
Design Pressure: +75/-90
Other: Product to be manufactured, designed, and installed as per drawing specifications 10-036.

Installation Instructions

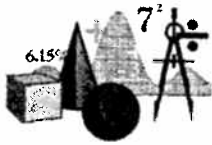
FL13534_R0_IL_10-036 DWG1.pdf
Verified By: Pedro De Figueiredo PE 52609
Created by Independent Third Party: Yes

Evaluation Reports

FL13534_R0_AE_10-036 PER1.pdf
Created by Independent Third Party: Yes

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Engineering Services

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PRODUCT EVALUATION REPORT
RULE 9B-72.070 (1) (d) - EVALUATION REPORT FROM A PROFESSIONAL ENGINEER
Report Number: 10-036

1- Date: 2/25/2010

2- Manufacturer: Madena S.A.
Honduras - San Manuel Cortes

3- Product Name: Series C4000 Mahogany Casement Impact Windows

4- Evaluation Entity: Florida Professional Engineer
Pedro Paulo M. De Figueiredo - PE 52609
6971 W. Sunrise Blvd. Suite 104
Plantation - Florida - 33313

5- Statement of Compliance: This product evaluation report is being issued per Rule Chapter No. 9B-72 section 9B-72.070 (1) (d) of the Department of Community Affairs - Florida Building Commission. The products covered by this report have proven to be in compliance with the Florida Building Code 2007, included but not limited to the following standards: TAS 201, TAS 202, TAS 203 and AF&PA NDS 2005.

6- Product Description: This product is a casement type window designed, constructed and tested to provide protection from hurricane force winds and wind borne debris (Large & small missile) within the allowable designed pressures and limitations state in this approval. Specification, fabrication and installation are as per drawings 10-036.

7- Technical Documentation:

7.1- Approval Document: Drawings number 10-036 prepared by Engco, Inc. on 2/19/2010 sheets 1 through 11 of 11, titled "Series C4000 Mahogany Casement Impact Windows" signed and sealed by Pedro De Figueiredo, PE.

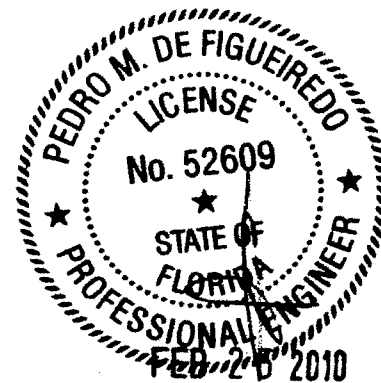
7.2- Test Reports – TAS 202, TAS 201 (Large missile) and TAS 203 as per the Florida Building Code 2007 prepared by Hurricane Engineering & Testing Inc., reports #: 06-4066, 05-1455, 05-1960, 05-1961 and 05-1962.

7.3- Calculations: Calculations and design for window anchorage and analysis of test results, prepared by Engco, Inc. on 2/23/10 signed and sealed by Pedro De Figueiredo, PE.

8- Limitation and Conditions of use:

8.1 – Product to be manufactured, designed and installed as per drawing specifications 10-036, prepared by Engco, Inc dated on 2/19/10 and signed and sealed by Pedro De Figueiredo, PE.

9- Others:



Pedro De Figueiredo
Fl. P.E. License: 52609
System ID: 2504