

FL # FL13535  
 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  
 Address/Phone/Email calle principal frente al cementerio  
 La Sabana, NON-US 00000  
 (786) 319-4112  
 madena.hn@hotmail.com

Authorized Signature Hortensia Orellana  
 madena.hn@hotmail.com

Technical Representative  
 Address/Phone/Email

Quality Assurance Representative  
 Address/Phone/Email

Category Windows  
 Subcategory Fixed

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 FL13535\_R0\_COI\_10-037 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
13535.1	Series F4000 Magohany Fixed Impact Windows	Magohany Fixed Impact Windows

**Limits of Use**

**Approved for use in HVHZ:** Yes  
**Approved for use outside HVHZ:** Yes  
**Impact Resistant:** Yes  
**Design Pressure:** +75/-83  
**Other:** Product to be manufactured, designed, and installed as per drawing 10-037

**Installation Instructions**

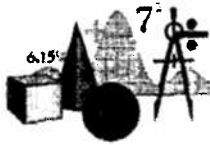
FL13535\_R0\_IL\_10-037 DWG1.pdf  
Verified By: Pedro De Figueiredo PE 52609  
Created by Independent Third Party: Yes

**Evaluation Reports**

FL13535\_R0\_AE\_10-037 PED1.pdf  
Created by Independent Third Party: Yes

[Back](#)

[Next](#)



**ENGCO Inc.**  
Engineering Services

ENGCO, Inc.  
CA 8116  
6971 W. Sunrise Blvd #104  
Plantation - Florida - 33313  
Tel.: (954) 585-0304 Fax: (954) 585-0305  
Engco@aol.com

**PRODUCT EVALUATION REPORT**  
**RULE 9B-72.070 (1) (d) - EVALUATION REPORT FROM A PROFESSIONAL ENGINEER**  
**Report Number: 10-037**

---

**1- Date:** 2/25/2010

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

**3- Product Name:** Series F4000 Mahogany Fixed 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 fixed 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 10-037.

**7- Technical Documentation:**

**7.1- Approval Document:** Drawings number 10-037 prepared by Engco, Inc. on 2/19/2010 sheets 1 through 8 of 8, titled "Series F4000 Mahogany Fixed 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 #: 03-1326, 03-1828A, 03-1828B, 03-1828C, 03-1851, 03-1852, 03-1853 and 03-1854.

**7.3- Calculations:** Calculations and design for window anchorage and analysis of test results, prepared by Engco, Inc. on 2/24/10 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 10-037, 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