

ENGCO Inc.
Engineering Services

ENGCO, Inc.
CA 8116
1791 BLOUNT ROAD 907
POMPANO BEACH, FLORIDA 33069
Engcoinc.com

PRODUCT EVALUATION REPORT
RULE 61G20-3 – EVALUATION REPORT FROM A PROFESSIONAL ENGINEER
Report Number: 17-707

- 1- Date:** 10/31/2017
- 2- Manufacturer:** Borano Inc.
222 NE 27th Street
Miami - Florida 33137
- 3- Product Name:** Borano Series Outswing Wood Doors
- 4- Evaluation Entity:** Florida Professional Engineer
Pedro Paulo M. De Figueiredo – PE 52609
1791 Blount Road 907
Pompano Beach – Florida – 33069

5- Statement of Compliance: This product evaluation report is being issued per Rule 61G20-3 of the Florida Department of Business and Professional Regulation. The products covered by this report have proven to be in compliance with the Florida Building Code 2017, not limited to the following standards: TAS 201, TAS 202, TAS 203 and AF&PA NDS 2015.

6- Product Description: This product is a swing out type door 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 17-707 under the Florida Building Code 2017.

7- Technical Documentation:

7.1- Approval Document: Drawings number 17-707 prepared by Engco, Inc. on 10/31/2017 sheets 1 through 14 of 14, titled "Borano Series Outswing Wood Doors 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 2010 prepared by Hurricane Engineering & Testing Inc., reports #:
12-4075, 12-4076, 13-4003, 13-4004
12-4077, 12-4078, 13-4046, 13-4047, 13-4024, 13-4025
13-4017, 13-4018. Signed and sealed by Rafael E. Droz Seda, PE 39228.

7.3- Calculations:

Original calculations and design for door anchorage and analysis of test results, prepared by Engco, Inc. on 2/21/13 signed and sealed by Pedro De Figueiredo, PE.

Revision 15-141 addendum to include new door type and update to the Florida Building Code 2014

Revision 17-707 addendum to update to the Florida Building Code 2017 – 6th edition

7.4- Product sequential data:

Revision on the existing FBC 2010, FL 16326 product approval.

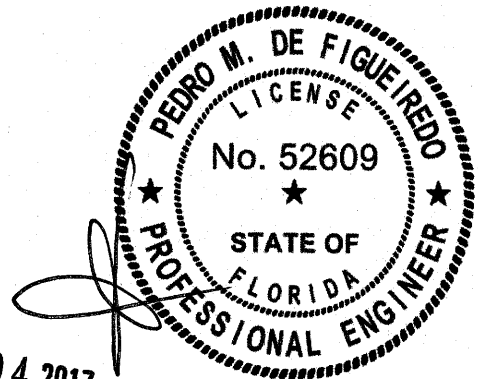
Editorial changes to the existing FBC 2014

8- Limitation and Conditions of use:

8.1 – Product to be manufactured, designed and installed as per drawing specifications 17-707, prepared by Engco, Inc dated on 10/31/2017 and signed and sealed by Pedro De Figueiredo, PE.

9- Additional Statements:

None



DEC 04 2017

Pedro De Figueiredo
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