



R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

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Florida Board of Professional Engineers Registry License No. 9813

Product Evaluation Report

Report No.: FL-42399.1

Date: September 18, 2023

Product Category	Sub Category	Manufacturer	Product Name
Shutters	Bahama	N.A.S.A. National Approved Shutter Association L.L.C. 15701 SW 29th Street Suite 100 Miramar, FL 33027	Extruded Aluminum Bahama Hurricane Shutter "Impact"

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Lyndon F. Schmidt, P.E. (System ID # 1998) for N.A.S.A. based on Rule Chapter No. 61G20-3, Method 1D of the State of Florida Product Approval, Department of Business & Professional Regulation.

RW Building Consultants and Lyndon F. Schmidt, P.E. do 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.

Limitations:

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code structural requirements including the "High Velocity Hurricane Zone".
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "High Velocity Hurricane Zone" this product complies with FBC Section 1626 and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind-borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. Site conditions that deviate from the details of drawing FL-42399.1 require further engineering analysis by a licensed engineer or registered architect.
6. Aluminum shutter material shall be 6063-T6.
7. The Engineer or Architect of Record is responsible for determining the wind loads for any specific application and to determine that the existing structure is capable of withstanding the loads imposed by the shutter system.
8. See drawing FL-42399.1 for size and design pressure limitations.

Supporting Documents:

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| 1. Test Report No.
CTLA-1098W | Test Standard
TAS 201, 202 & 203-94 | Testing Laboratory
CTLA | Signed by
Ramesh Patel, P.E. |
| 2. Drawing No.
No. FL-42399.1 | Prepared by
RW Building Consultants, Inc. (#9813) | | Signed & Sealed by
Lyndon F. Schmidt, P.E. |
| 3. Calculations
Anchoring | Prepared by
RW Building Consultants, Inc. (#9813) | | Signed & Sealed by
Lyndon F. Schmidt, P.E. |
| 4. Quality Assurance
Certificate of Participation issued by National Accreditation and Management Institute, certifying that N.A.S.A. is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53. | | | |

Digitally signed by
Lyndon F Schmidt
Date: 2023.09.18
14:50:02 -04'00'

LYNDON F. SCHMIDT, State of Florida, Professional Engineer, License No. 43409
This item has been digitally signed and sealed by L. F. Schmidt on 9-18-23.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA