



398 E DANIA BEACH BLVD. SUITE 338, DANIA BEACH, FL 33004

Product Evaluation Report

of

**Andersen Corporation
Renewal by Andersen
Coastal Series Fixed Casement Window
(HVHZ) (Impact)**

for

Florida Product Approval

FL# FL19562

Report No. 8118

Current Florida Building Code

Method: 1 – D (Engineering Evaluation)
Category: Windows
Sub – Category: Fixed

Product: RbA Coastal Series Fixed Casement Window
(HVHZ) (Impact)

Materials: Fibrex/PVC

Product Dimensions: See Installation Instructions, AWD321

Prepared for:

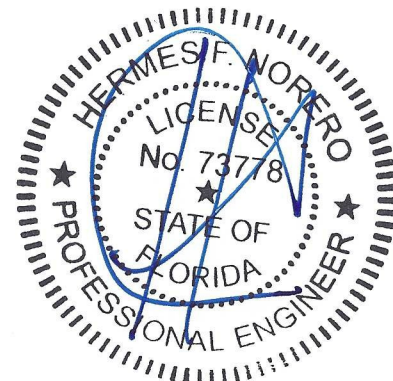
**Andersen Corporation
100 Fourth Ave. North
Bayport, MN 55003-1096**

Prepared by:

Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 10/10/2022

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

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Manufacturer: Andersen Corporation

Product Category: Windows

Product Sub-Category: Fixed

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

Product Name: RbA Coastal Series Fixed Casement Window (HVHZ) (Impact)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Andersen Corporation** based on Method 1d of the State of Florida Product Approval, 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 **AWD321**, 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 installation instructions **AWD321** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **AWD321** for size and design pressure limitations.

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Quality Assurance:

The manufacturer has demonstrated compliance of manufacture of products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Window and Door Manufactures Association** (FBC Organization # QUA2515).

Performance Standards:

The product described herein has been evaluated per:

- AAMA/WDMA/CSA 101/I.S.2/A440-11/17
- ASTM E1886-13
- ASTM E1996-17
- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing Performed by **Intertek, Inc. – Fridley, MN**
(FBC Organization # TST1795)
Report: N8754.01-201-18 Dated: 8/01/2022
Signed & Sealed by Tanya A. Dolby FL P.E. No. 93536, 8/18/22
N8754.02-201-44 8/04/2022
N8756.01-201-44 8/04/2022
N9901.01-201-44 8/08/2022
N9897.01-201-44 8/04/2022
N9900.01-201-44 8/29/2022
N9899.01-201-44 8/29/2022
2. Quality Assurance
Window and Door Manufactures Association
(FBC Organization #: QUA2515)
3. **Material Certifications for fiberglass by Intertek ETL Semko:**
ASTM D 635
Report #: J20039829-231 Date: 2/23/01

Material Certifications for fiberglass by Intertek:

ASTM D 1929

Report #: 100581691MID-002 Date: 2/17/2012

ASTM E 84

Report #: 100581691SAT-001A Date: 2/27/2012

Material Certifications for fiberglass by PRI Asphalt Technologies:

ASTM G 26 & ASTM D 638

Report #: ARR-03-02-01 Date: 8/14/01

4. **Material Certifications for PVC by Aspen Research Corporation:**

"South Florida outside 45 degree exposure for 5 years" (in lieu of

ASTM G 26/G 155) & ASTM D 638

Report #: F4693 Date: 03/24/99

Material Certifications for PVC by Intertek ETL Semko:

ASTM E 84

Report #: 3100559SAT-004 Date: 08/04/06

ASTM D 1929

Report #: 3100559SAT-001 Date: 08/09/06

ASTM D 635

Report #: 3100559SAT-007 Date: 08/08/06

5. **Material Certification**

Miami-Dade County Notice of Acceptance

Kuraray America, Inc.

Trosifol PVB Interlayer

Installation:

Refer to Installation Instructions (**AWD321**) for anchor types, spacing, and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**AWD321**) for design pressure configurations.

Equivalence of Test Standards:

Various test standards have been evaluated for differences in test methodology, if any, between tested editions of the test standards listed below and those editions referenced in the current Florida Building Code. Andersen Corporation has tested their products to the following test standard edition(s):

- 1) ASTM E1886-19
- 2) ASTM E1996-20

Chapter 35 of the current Florida Building Code references the following editions of the above

- 1) ASTM E1886-13
- 2) ASTM E1996-17

After review of the above mentioned referenced standards and editions, it has been found that the results and tests carried out meet the requirements for compliance. All referenced standards have been found to be equivalent.