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Product Evaluation Report

of

Shwinco Architectural Products
Series 9070 Fixed Window
(HVHZ) (Impact)

for

Florida Product Approval

FL# FL14590

Report No. 7465

Current Florida Building Code

Method:	**1 – D (Engineering Evaluation)**
Category:	**Windows**
Sub – Category:	**Fixed**
Product:	**Series 9070 Fixed Window**
Materials:	**Vinyl**
Product Dimensions:	**See Installation Instructions, SWD055**

Prepared for:
Shwinco Architectural products
171 Jet Services Way
Dothan, AL 36303

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 01/25/2021

Contents:

Evaluation Report Pages 1 – 4

Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2021.04.15 17:12:58 -04'00'

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

Manufacturer:	**Shwinco Architectural Products**
Product Category:	Windows
Product Sub-Category:	Fixed
Compliance Method:	State Product Approval Method (1)(d)
Product Name:	**Series 9070 Fixed Window (HVHZ) (Impact)**

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Shwinco Architectural Products** 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 **SWD055**, 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 current Florida Building Code and **does not require** an impact resistant covering.
4. Site conditions that deviate from the details of installation instructions **SWD055** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **SWD055** for size and design pressure limitations.

Quality Assurance: The manufacturer has demonstrated compliance of manufacture of products in accordance with the current Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **National Accreditation and Management Institute** (FBC Organization # QUA1789).

Performance Standards: The product described herein has been evaluated per:

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

Referenced Data:

1. Product Testing performed by **National Certified Testing Lab.**
   (FBC Organization # TST1589)
   Report #: NCTL-210-4195-1, Report Date: 11/16/20
   Report #: NCTL-210-4195-2, Report Date: 11/16/20
   Report #: NCTL-210-4199-1, Report Date: 12/08/20
   TAS Reports Signed and Sealed by Douglas J. McDougall, FL PE No. 28392

   Report #: NCTL-210-3587-2, Report Date: 08/24/09
   Report #: NCTL-210-3587-2A, Report Date: 07/13/09
   Report #: NCTL-210-4195-1A, Report Date: 11/16/20
   Report #: NCTL-210-4195-2A, Report Date: 11/16/20
   Report #: NCTL-210-4199-1A, Report Date: 12/08/20

2. Product Testing performed by **Intertek Building & Construction.**
   (FBC Organization # TST3892)
   Report #: K8099.01-550-18 R0, Report Date: 05/12/20
   TAS Report Signed and Sealed by Vinu J. Abraham, FL PE No. 53820

3. Quality Assurance
   National Accreditation and Management Institute
   (FBC Organization # QUA1789)

4. Material Certification
   Miami-Dade RER – Product Control Section NOA
   Eastman Chemical Co. – PVB Interlayer

5. Material Certification
   Miami-Dade RER – Product Control Section NOA
   Vision Extrusions Limited – Extruded Rigid PVC (Frame)

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. Shwinco Architectural Products has tested their products to the following test standard edition(s):

1) AAMA/WDMA/CSA 101/I.S.2/A440-05
2) ASTM E1886-02/05
3) ASTM E1996-02/05

Chapter 35 of the current Florida Building Code references the following editions of the above mentioned test standards:

1) AAMA/WDMA/CSA 101/I.S.2/A440-11/17
2) ASTM E1886-13a
3) 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.

Installation:

Refer to Installation Instructions (**SWD055**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**SWD055**) for design pressures based on size, configuration, and glass types.