



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

Product Evaluation Report

of

**Kingspan Light & Air Fenestration Inc.
UniGrid® Fiberglass Wall TB/Non-TB
(Non-HVHZ) (Impact)**

for

Florida Product Approval

FL# FL42303

Report No. 8650

Current Florida Building Code

Method:	1 – D (Engineering Evaluation)
Category:	Panel Walls
Sub – Category:	Products Introduced as a Result of New Technology
Product:	UniGrid® Fiberglass Wall TB/Non-TB (Non-HVHZ) (Impact)
Product Dimensions:	See Installation Instructions, KLA010

Prepared for:

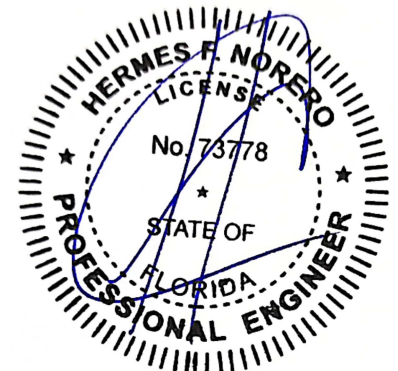
**Kingspan Light & Air Fenestration Inc.
28662 North Ballard Drive
Lake Forest, IL 60045**

Prepared by:

Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 07/18/2023

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

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

Manufacturer: Kingspan Light & Air Fenestration Inc.

Product Category: Panel Walls

Product Sub-Category: Products Introduced as a Result of New Technology

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

Product Name: UniGrid® Fiberglass Wall TB/Non-TB
(Non-HVHZ) (Impact)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Kingspan Light & Air Fenestration Inc.** 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 **KLA010**, 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, **excluding** 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 (**WZ3 or less**) protection this product complies with Chapter 16 of the current Florida Building Code and **does not require** an impact resistant covering.
4. When used in areas requiring wind borne debris protection (**WZ4**) this product complies with Chapter 16 of the current Florida Building Code and **does require** an impact resistant covering.
5. Site conditions that deviate from the details of installation instructions **KLA010** require further engineering analysis by a licensed engineer or registered architect.
6. See Installation Instructions **KLA010** 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 current Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Intertek Testing Services NA, Inc.** (FBC Organization # QUA1673)

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

- ASTM E283-04(12)
- ASTM E330-14
- ASTM E331-00(16)
- ASTM E1886-13a
- ASTM E1996-14a

Referenced Data:

1. Product Testing performed by **Stork Twin City Testing** (FBC Organization # TST2613)

Report:
180-7933.1
180-7933.2 Rev. A

Dated:
02/03/10
03/08/10

2. Quality Assurance
Intertek Testing Services NA, Inc.
(FBC Organization #: QUA1673)

Installation:

Refer to Installation Instructions (**KLA010**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**KLA010**) for design pressures based on size, configuration, and glass types.

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. **Kingspan Light & Air Fenestration** has tested their products to the following test standard edition(s)

- 1) ASTM E1886-05
- 2) ASTM E1996-05
- 3) ASTM E283-04
- 4) ASTM E330-02
- 5) ASTM E331-00

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

- 1) ASTM E1886-13a
- 2) ASTM E1996-14a
- 3) ASTM E283-04(12)
- 4) ASTM E330-14
- 5) ASTM E331-00(16)

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 with the referenced standard. All referenced standards have been found to be equivalent.