



1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

## Product Evaluation Report

*of*

**Kingspan Light & Air Fenestration, Inc.  
Pentaclad Cladding System  
(HVHZ) (Non-Impact)**

*for*

**Florida Product Approval**

**FL# FL16751**

**Report No. 8977**

**Current Florida Building Code**

<b>Method:</b>	<b>2 – B (Engineering Evaluation)</b>
<b>Category:</b>	<b>Sky Lights</b>
<b>Sub – Category:</b>	<b>Skylight</b>
<b>Product:</b>	<b>Pentaclad Cladding System</b>
<b>Product Dimensions:</b>	<b>See Installation Instruction KLA013</b>

**Prepared for:**

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

**Prepared by:**

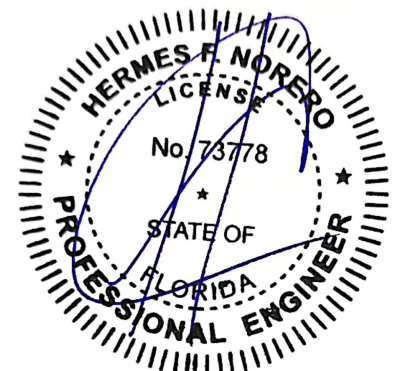
**Hermes F. Norero, P.E.**

Florida Professional Engineer # 73778

Date: 10/11/2023

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



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**FL#: FL16751**  
Date: 10/11/2023  
Report No: 8977

**Manufacturer:** Kingspan Light & Air Fenestration, Inc.

**Product Category:** Sky Lights

**Product Sub-Category:** Skylight

**Compliance Method:** State Product Approval Method (2)(b)

**Product Name:** Pentaclad Cladding System  
(HVHZ) (Non-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 2b 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 **KLA013**, provided by manufacturer 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 require** an impact resistant covering.
4. Site conditions that deviate from the details of **KLA013** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **KLA013** 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 E330-14
- TAS 202-94
- TAS 203-94

**Referenced Data:**

1. Product Testing performed by **Quast Consulting and Testing, Inc.** (FBC Organization # TST8039)  
Report #: QCT 21-6396.16, Report Date: 02/22/23  
Report #: QCT 21-6396.17, Report Date: 02/22/23  
Report #: QCT 21-6396.18, Report Date: 02/22/23  
Report #: QCT 21-6396.19-R1, Report Date: 03/15/23  
Report #: QCT 21-6396.20, Report Date: 02/22/23  
Report #: QCT 21-6396.21, Report Date: 02/22/23  
Report Reviewed by Brian M. Sasma, P.E. # 69283, Date: 05/10/23
2. Material Certification  
**Bayer Material Science, LLC. (MA)**  
Makrolon Polycarbonate Sheets
3. Quality Assurance  
**Intertek Testing Services NA, Inc.**  
(FBC Organization # QUA1673)

**Installation:**

Refer to Installation Instructions (**KLA013**) provided by manufacturer for anchor spacing and more details of the installation requirements.

**Design Pressure:**

Refer to Pentaglas Installation Instructions (**KLA013**) provided by manufacturer for design pressures based on size, configuration, and glass types.