



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

Product Evaluation Report

of

**Kingspan Light & Air Fenestration Inc.
QuadSpan® Translucent Polycarbonate Panels
HD System
(HVHZ) (Impact)**

for

Florida Product Approval

FL# FL8804

Report No. 8362

Current Florida Building Code

Method:	1 – D (Engineering Evaluation)
Category:	Structural Components
Sub – Category:	Roof Deck
Product:	QuadSpan® Translucent Polycarbonate Panels
Product Dimensions:	See Installation Instructions, KLA003

Prepared for:

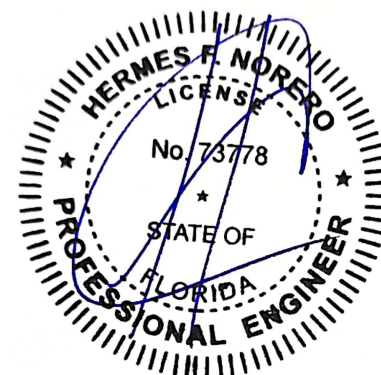
**Kingspan Light & Air Fenestration Inc.
28662 North Ballard Drive
Lake Forest, IL 60045**

Prepared by:

Hermes F. Norero, P.E.

Florida Professional Engineer # 73778

Date: 06/08/2023



Contents:

Evaluation Report Pages 1 – 4

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



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

Manufacturer: Kingspan Light & Air Fenestration Inc.

Product Category: Structural Components

Product Sub-Category: Roof Deck

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

Product Name: QuadSpan® Translucent Polycarbonate Panels (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 **KLA003**, provided by manufacturer and verified 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 **KLA003** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **KLA003** 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



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

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:

- AAMA 501-15
- ASTM E1886-13a
- ASTM E1996-17
- ASTM E330-14
- ASTM E283-04
- ASTM E331-00
- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by **Construction Testing Corporation**
(FBC Organization # TST1999)
Report #: Date:
CTC-05-022 A ASTM, CPI-502A 09/23/05
CTC-05-022 A TAS, CPI-502B 09/23/05
CTC-05-022 D ASTM, CPI-415 01/21/06
Signed and Sealed by Yamil G. Kuri, P.E. # 44726 02/02/06
2. Product Testing performed by **UL LLC.**
(FBC Organization # TST9628)
Report #: Date:
SV31431-20210221-R2 03/04/21
3. Product Testing performed by **Quast Consulting & Testing INC.**
(FBC Organization # TST8039)
Report #: Date:
QCT21-6397.06 07/26/22
QCT21-6397.07 07/26/22
QCT21-6397.08 07/26/22
QCT21-6397.09 07/26/22
QCT21-6397.10 07/27/22
QCT21-6397.13 08/31/22
QCT21-6397.14 08/03/22



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

4. Material Certification
Bayer Material Science, LLC. (MA)
Makrolon Polycarbonate Sheets
5. Quality Assurance
Intertek Testing Services NA, Inc.
(FBC Organization # QUA1673)

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 Inc. has tested their products to the following test standard edition(s):

- 1) ASTM E1886-02
- 2) ASTM E1996-02
- 3) ASTM E330-02

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

- 1) AAMA 501-15
- 2) ASTM E1886-13a
- 3) ASTM E1996-17
- 4) ASTM E330-14

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, **KLA003**, for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions, **KLA003**, for design pressures based on size, configuration, and glass types.