



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

Product Evaluation Report

of

**Pella Corporation
Impervia 2.0 Impact Direct Set
(Non-HVHZ) (Impact)**

for

Florida Product Approval

FL# FL26584

Report No. 8631

Current Florida Building Code

Method: 1 – A (Certificate)
Category: Windows
Sub – Category: Fixed

Product: Impervia 2.0 Impact Direct Set
(Non-HVHZ) (Impact)

Materials: Fiberglass Composite

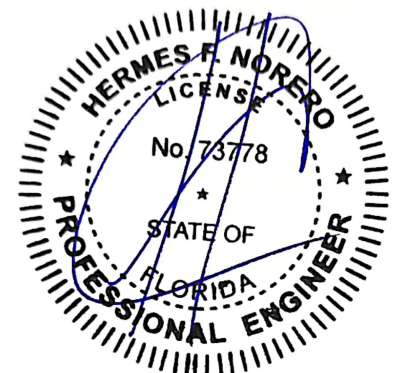
Product Dimensions: See Installation Instructions, PLA001

Prepared for:

**Pella Corporation
102 Main St.
Pella, IL 502190**

Prepared by:

Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 7/13/2023



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

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Manufacturer: Pella Corporation

Product Category: Windows

Product Sub-Category: Fixed

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

Product Name: **Impervia 2.0 Impact Direct Set (Non-HVHZ) (Impact)**

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Pella Corporation** based on Method 1a 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 **PLA001**, 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 protection this product complies with Chapter 16 of the current Florida Building Code and **does not require** an impact resistant covering in Wind Zone 2 or less.
4. 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 in Wind Zone 3 or more.
5. Site conditions that deviate from the details of installation instructions **PLA001** require further engineering analysis by a licensed engineer or registered architect.
6. See Installation Instructions **PLA001** for size and design pressure limitations.

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Certification Agency: The manufacturer has demonstrated compliance of manufacture of products in accordance with the Florida Building Code for manufacturing under an approved certification agency through **Window & Door Manufacturers Association** (FBC Organization #: CER1508)

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

- ASTM E1886-13a
- ASTM E1996-17
- AAMA/WDMA/CSA 101/I.S.2/A440-11/17

Referenced Data:

1. Product Testing performed by **Element Materials Technology** (FBC Organization # TST9610)
Report: ESP039102P.C2-2 Dated: 05/13/23
ESP039102P.C2-4 06/18/23
ESP031855P.5 10/10/19
2. Material Certification
Miami Dade County Notice of Acceptance (NOA)
Current NOA for Trosifol Interlayer by Kuraray America, Inc.
Current NOA for Sentryglas Interlayer by Kuraray America, Inc.
3. Certification Agency
Window & Door Manufacturers Association
(FBC Organization #: CER1508)

Installation:

Refer to Installation Instructions (**PLA001**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**PLA001**) 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. Pella 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 mentioned test standards:

- 1) ASTM E1886-13a
- 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.