



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

Product Evaluation Report

of

**Westlake Royal Building Products
PVC Siding Products
(HVHZ)**

for

Florida Product Approval

FL# FL42320

Report No. 8688

Current Florida Building Code

Method:	1 – D (Engineering Evaluation)
Category:	Panel Walls
Sub – Category:	Siding
Product:	PVC Siding Products
Materials:	PVC
Product Dimensions:	See Installation Instructions, WLR005

Prepared for:

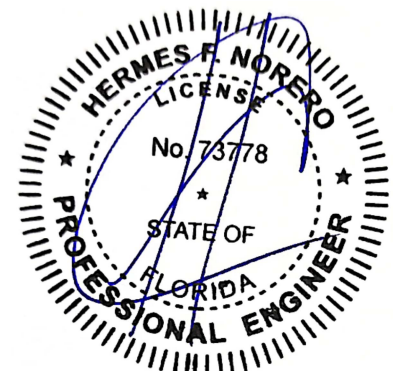
**Westlake Royal Building Products
2801 Post Oak Blvd. Suite 600
Houston, TX 77056**

Prepared by:

Hermes F. Norero, P.E.

Florida Professional Engineer # 73778

Date: 08/03/2023



Contents:

Evaluation Report Pages 1 – 5

Digitally signed by Hermes F. Norero, P.E.

Reason: I am approving this document

Date: 2023.08.17 13:50:11 -04'00'

Hermes F. Norero, P.E.

Florida No. 73778

Manufacturer: Westlake Royal Building Products

Product Category: Panel Walls

Product Sub-Category: Siding

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

Product Name: **PVC Siding Products
(HVVZ)**

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Westlake Royal Building 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 **WLR005**, 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" (HVVZ).
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 when installed over wall construction complying with FBC Section 1626.4.
4. Site conditions that deviate from the details of installation instructions **WLR005** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **WLR005** for size and design pressure limitations.
6. Product design pressures shall be compared to "ASD" component and cladding wind load as determined in accordance with Chapter 16.

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 **Architectural Testing, Inc., an Intertek Company** (FBC Organization # QUA1844).

Performance Standards:

The product described herein has been evaluated per:

- ASTM D635-14
- ASTM D638-03
- ASTM D1929-16
- ASTM D2843-16
- ASTM D3679-17
- ASTM E84-18B
- ASTM G155-13
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by **Architectural Testing, Inc. (an Intertek company) - York, PA** (FBC Organization # TST1558)

Report #: 98951.01-109-18, Report Date: 05/20/10

Report #: 98951.02-109-18, Report Date: 05/20/10

Report #: 98951.03-109-18, Report Date: 05/20/10

Report #: 98952.01-109-18, Report Date: 05/20/10

Report #: 98952.02-109-18, Report Date: 05/20/10

Report #: 98953.01-109-18, Report Date: 05/20/10

Report #: 98953.02-109-18, Report Date: 05/20/10

Report #: 98955.01-109-18, Report Date: 06/14/10

TAS reports signed and sealed by Michael D. Stremmel, Florida PE
#65868

Report #: A4167.01-106-18, Report Date: 01/13/11

- ASTM D2843
Average Smoke Density: 69.3
- ASTM E84
Smoke developed index: 90
Flame spread index: 0

Report #: A0417.02-106-18,

Report Date: 11/08/12

- ASTM G155
Xenon arc light exposure: +9.1% <= 10% allowed tensile strength difference post 4500-hour exposure
- ASTM D638
Tensile strength before exposure: 6584.8 psi
Tensile strength after exposure: 7183.6 psi
- ASTM D1929
Self-ignition temperature: 860°F
- ASTM D635
Rate of burning: CC1

Installation:

Refer to Installation Instructions (**WLR005**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**WLR005**) for design pressures based on size, configuration, and installation.

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. **Westlake Royal Building Products** has tested their products to the following test standard edition(s):

- 1) ASTM D635-03
- 2) ASTM D1929-96(00)
- 3) ASTM D2843-99(04)
- 4) ASTM D3679-05
- 5) ASTM E84-10
- 6) ASTM G155-04

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

- 1) ASTM D635-14
- 2) ASTM D1929-16
- 3) ASTM D2843-16
- 4) ASTM D3679-17
- 5) ASTM E84-18B
- 6) ASTM G155-13

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.