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Product Evaluation Report

of

Westlake Royal Building Products
Elm Grove and Parkview PVC Siding
(HVHZ)

for

Florida Product Approval

FL# FL19130

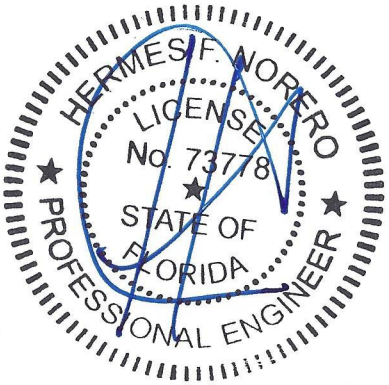
Report No. 8192

Current Florida Building Code

Method:	**1 – D (Engineering Evaluation)**
Category:	**Panel Walls**
Sub – Category:	**Siding**
Product:	**Elm Grove and Parkview PVC Siding**
Materials:	**PVC**
Product Dimensions:	**See Installation Instructions, WLR004**

Prepared for:
Westlake Royal Building Products
91 Royal Group Crescent
Woodbridge, Ontario L4H 1X9, Canada

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 09/22/2022



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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2022.10.19 16:29:55 -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:	**Elm Grove and Parkview PVC Siding (HVHZ)**

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 **WLR004**, 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" (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. Site conditions that deviate from the details of installation instructions **WLR004** require further engineering analysis by a licensed engineer or registered architect.
4. See Installation Instructions **WLR004** for size and design pressure limitations.
5. Product design pressures shall be compared to "ASD" component and cladding wind load as determined in accordance with Chapter 16.

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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 **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 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 #: E3981.02-106-18, Report Date: 03/04/16
   TAS report signed and sealed by Michael D. Stremmel, Florida PE #65868

   Report #: E3981.01-106-18, Report Date: 03/04/16
   - ASTM D2843
     Average Smoke Density: 30.8
   - ASTM G155
     Xenon arc light exposure: +9.1% <= 10% allowed tensile strength difference post 4500-hour exposure
   - ASTM D638
     Tensile strength before exposure: 7334 psi
     Tensile strength after exposure: 8002 psi
   - ASTM D1929
     Self-ignition temperature: 520°F
   - ASTM D635
     Rate of burning: CC1

Installation:

Refer to Installation Instructions (**WLR004**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**WLR004**) 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 D635-06
2) ASTM D1929-96(00)
3) ASTM D2843-99(04)
4) ASTM D3679-06a
5) ASTM G155-05

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 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.

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