



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

## Product Evaluation Report

*of*

**Arcadia Inc.  
IPWS 512 HD Series Entrance Door  
(WZ3) (Impact)**

*for*

**Florida Product Approval**

**FL# FL40955**

**Report No. 7867**

### Current Florida Building Code

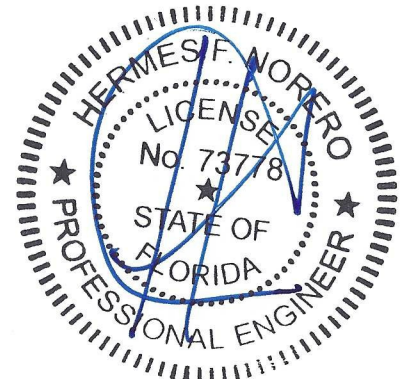
|                            |  |
|----------------------------|--|
| <b>Method:</b>             | <b>1 – D (Engineering Evaluation)</b>        |
| <b>Category:</b>           | <b>Exterior Doors</b>                        |
| <b>Sub – Category:</b>     | <b>Swinging Exterior Door Assemblies</b>     |
| <b>Product:</b>            | <b>IPWS 512 HD Series Entrance Door</b>      |
| <b>Materials:</b>          | <b>Aluminum 6063-T5</b>                      |
| <b>Product Dimensions:</b> | <b>See Installation Instructions, ARC005</b> |

### Prepared for:

**Arcadia Inc.  
2301 East Vernon Ave.  
Vernon, CA 90058**

### Prepared by:

**Hermes F. Norero, P.E.**  
Florida Professional Engineer # 73778  
Date: 2/16/2022



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

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**Manufacturer:** Arcadia Inc.  
**Product Category:** Exterior Doors  
**Product Sub-Category:** Swinging Exterior Door Assemblies  
**Compliance Method:** State Product Approval Method (1)(d)  
**Product Name:** IPWS 512 HD Series Entrance Door (WZ3) (Impact)

**Scope:** This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **Arcadia 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 **ARC005**, 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 3 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 **requires** an impact resistant covering in wind zone 4.
5. Site conditions that deviate from the details of installation instructions **ARC005** require further engineering analysis by a licensed engineer or registered architect.
6. See Installation Instructions **ARC005** for size and design pressure limitations.



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

1. ASTM E1886-05
2. ASTM E1996-06

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.

**Installation:**

Refer to Installation Instructions (**ARC005**) for anchor spacing and more details of the installation requirements.

**Design Pressure:**

Refer to Installation Instructions (**ARC005**) for design pressures based on size, configuration, and glass types.