



**BUILDING DROPS**

1900 NE MIAMI CT. SUITE 2-15, MIAMI, FL 33132

## Product Evaluation Report

of

**Arcadia, Inc.  
TD-400 Terrace Door  
(WZ3) (Impact)**

for

**Florida Product Approval**

**FL# FL45922**

**Report No. 9029**

### Current Florida Building Code

**Method:** 1 – D (Engineering Evaluation)  
**Category:** Exterior Doors  
**Sub – Category:** Swinging Exterior Door Assemblies

**Product:** TD-400 Terrace Door  
**Material:** 6063-T6 Aluminum  
**Product Dimensions:** See Installation Instructions, ARC015

**Prepared for:**

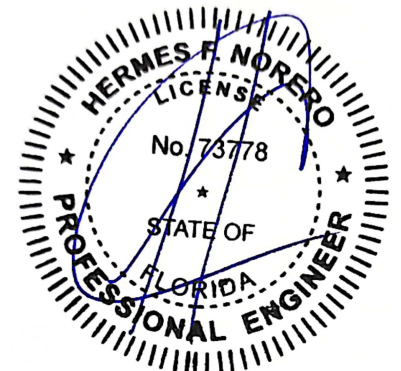
**Arcadia, Inc.  
2301 East Vernon Ave.  
Vernon, CA 90058**

**Prepared by:**

**Hermes Norero, P.E.**  
Florida Professional Engineer # 73778  
Date: 12/19/2023

Contents:

Evaluation Report      Pages 1 – 4



Hermes 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:** **TD-400 Terrace Door  
(WZ3)(Impact)**

**Scope:** This is a Product Evaluation Report issued by Hermes Norero, P.E. (FL # 73778) for **Arcadia, Inc.** based on Method 1d of the State of Florida Product Approval, Florida Department of Business and Professional Regulation - Florida Building Commission.

Hermes 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 **ARC015**, signed and sealed by Hermes 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 **does require** an impact resistant covering in Wind Zone 4.
5. Site conditions that deviate from the details of Installation Instructions **ARC015** require further engineering analysis by a licensed engineer or registered architect.
6. See Installation Instructions **ARC015** for size and design pressure limitations.

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**Quality Assurance Entity:** The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code for manufacturing under a program audited by and 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 E1886-19
- ASTM E1996-20
- ASTM E283-19
- ASTM E330-14
- ASTM E331-00(16)

**Referenced Data:**

1. Product Testing performed by **Fenestration Testing Laboratory, Inc.** (FBC Organization # TST4129)  
Report #: Report Date:  
T22-003 02/16/2022  
T22-051 05/17/2023  
T14-089 02/11/2015  
T14-090 02/11/2015  
T14-007 06/13/2014  
T14-008 06/13/2014
2. Quality Assurance Entity  
**Architectural Testing, Inc., an Intertek Company**  
(FBC Organization #: QUA1844)

**Installation:**

Refer to Installation Instructions (**ARC015**) for anchor spacing and more details of the installation requirements.

**Design Pressure:**

Refer to Installation Instructions (**ARC015**) 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 the 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 E1996-17
- 2) ASTM E283-04(12)
- 3) ASTM E331-00(09)

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

- 1) ASTM E1996-20
- 2) ASTM E283-19
- 3) ASTM E331-00(16)

After review of the above mentioned referenced standards and editions, it has been found that the performance results and tests carried out meet the requirements for compliance with the standard editions referenced within the current Florida Building Code. All referenced standards have been found to be equivalent.