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

Product Evaluation Report

of

YKK AP America, Inc.
Series 50H Aluminum Outswing Entrance Door
(HVHZ) (Missile Level E Impact Rated)

for

Florida Product Approval

FL# FL16554

Report No. 6844

Current Florida Building Code

Method:	**1 – D (Engineering Evaluation)**
Category:	**Exterior Doors**
Sub – Category:	**Swinging Exterior Door Assemblies**
Product:	**Series 50H Aluminum Outswing Entrance Door (HVHZ) (Missile Level E Impact Rated)**
Materials:	**Aluminum 6063-T5**
Product Dimensions:	**See Installation Instructions, YKK158**

Prepared for:
YKK AP America
1229 Hwy 441 Bypass
Dublin, GA 31021

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 10/14/2022

HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Contents:

Evaluation Report Pages 1 – 4

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2022.10.14 15:07:37 -04'00'

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

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

Manufacturer: **YKK AP America, Inc.**

Product Category: Exterior Doors

Product Sub-Category: Swinging Exterior Door Assemblies

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

Product Name: **Series 50H Aluminum Outswing Entrance Door (HVHZ) (Missile Level E Impact Rated)**

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **YKK AP America, 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 **YKK158**, 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. 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. Product has been tested to Missile Level E Impact requirements.
4. Site conditions that deviate from the details of installation instructions **YKK158** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **YKK158** for size and design pressure limitations.

954.399.8478 954.744.4738
BUILDINGDROPS.COM CONTACT@BUILDINGDROPS.COM

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

Quality Assurance: The manufacturer has demonstrated compliance of manufacture of products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Intertek Testing Services, Inc. – QA Entity** (FBC Organization # QUA1673).

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

- ASTM E330-14
- ASTM E1886-13a
- ASTM E1996-14a/17
- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by **Intertek**
   (FBC Organization # TST3892)
   Report #: P2377.01-550-18, Report Date: 10/06/22
   Report #: P2377.07-550-18, Report Date: 10/05/22
   Reports Signing Engineer: Tanya A. Dolby, FL P.E. # 93536

2. Product Testing performed by **Hurricane Test Laboratory, LLC.**
   (FBC Organization # TST1527)
   Report #: E2890.01-550-18, Report Date: 04/16/15
   Report #: E2890.02-550-18, Report Date: 04/14/15
   Report #: E2890.03-550-18, Report Date: 04/16/15
   Report #: E2890.04-550-18, Report Date: 04/14/15
   Reports Signing Engineer: Vinu J. Abraham, FL P.E. # 53820

3. Product Testing performed by **Intertek**
   (FBC Organization # TST3892)
   Report #: I6616.01-550-18, Report Date: 10/01/18
   Report Signing Engineer: Vinu J. Abraham, FL P.E. # 53820

4. Quality Assurance
   Intertek Testing Services, Inc. – QA Entity
   (FBC Organization # QUA1673)

954.399.8478 954.744.4738
BUILDINGDROPS.COM CONTACT@BUILDINGDROPS.COM

5. Material Certification
   Miami-Dade County Notice of Acceptance
   Kuraray America (Previously E.I. DuPont De Nemours & Co. Inc.)
   SentryGlas Interlayer

Installation:

Refer to Installation Instructions (**YKK158**) for anchor types, spacing, and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions (**YKK158**) for design pressures based on size, configurations, and glass types.

954.399.8478
954.744.4738
BUILDINGDROPS.COM
CONTACT@BUILDINGDROPS.COM