



# BUILDING DROPS

A Perfect Solution in Every Drop

Certificate of Authorization: 29578

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## Product Evaluation Report *of*

**YKK AP America, Inc.**  
**Series 35H Aluminum Outswing Entrance Door Impact**

*for*  
**Florida Product Approval**

**FL# FL16554**  
**Report No. 4025**

**5<sup>th</sup> Edition (2014) Florida Building Code**  
**Per Rule 61G20-3**

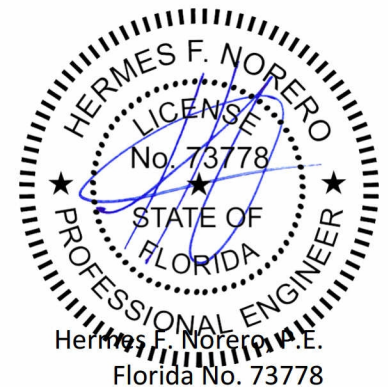
**Method:** 1 – D (Engineering Evaluation)  
**Category:** Exterior Door Assembly  
**Sub – Category:** Swinging Exterior Door Assemblies

**Product:** *Series 35H Aluminum Outswing Entrance Door Impact*  
**Material:** Aluminum 6063-T5  
**Product Dimensions:** *See installation instructions YKK020*

**Prepared For:**  
**YKK AP America, Inc.**  
**332 Firetower Road**  
**Dublin, GA 31021**

**Prepared by:**  
**Hermes F. Norero, P.E.**  
Florida Professional Engineer # 73778  
Date: 10/29/2015

Contents:  
Evaluation Report Pages 1 – 4  
Digitally signed by Hermes F Norero, P.E.  
Reason: I am approving this document  
Date: 2015.10.30 10:08:25 -04'00'





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

**Product Category:** Exterior Door Assembly

**Product Sub-Category:** Swinging Exterior Door Assemblies

**Compliance Method:** State Product Approval Rule 61G20-3.005 (1)(d)

**Product Name:** Series 35H Aluminum Outswing Entrance Door Impact

**Scope:** This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **YKK AP America, Inc.** based on Rule Chapter No. 61G20-3.005, 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 Florida Building Code.

See Installation Instructions **YKK020**, 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 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 Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **YKK020** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **YKK020** for size and design pressure limitations.



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## Quality Assurance:

The manufacturer has demonstrated compliance of manufacture of products in Accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Architectural Testing, Inc.** (FBC Organization #: QUA 1844)

## Performance Standards:

The product described herein has been tested per:

- TAS 201-94
- TAS 202-94
- TAS 203-94

## Referenced Data:

1. Product Testing performed by **Hurricane Test Laboratory, LLC.**  
Report #: G231-0103-11-R0, Report Date: 04/28/11  
Report #: G231-0507-09, Report Date: 07/13/09  
Report #: G231-0801-09-R0, Report Date: 11/04/09  
Report #: G561-0402-10-R0, Report Date: 04/20/10  
Report #: 0231-1117-03, Report Date: 03/29/04
2. Product Testing performed by **Architectural Testing, Inc.**  
Report #: C6629.08-550-18-R0, Report Date: 06/05/13
3. Additional Hardware Testing performed by **Architectural Testing, Inc.**  
Report #: D2090.01-550-18, Report Date: 12/20/13
4. Quality Assurance  
**Architectural Testing, Inc.**  
(FBC Organization #: QUA 1844)
5. Material Certification  
**Miami-Dade County Notice of Acceptance**  
**Eastman Chemical Company (Previously Solutia)**  
Solutia Saflex PVB Interlayer  
Vanceva Storm (Saflex CP) Interlayer
6. Material Certification  
**Miami-Dade County Notice of Acceptance**  
**E.I. DuPont De Nemours & Co. Inc.**  
SentryGlas Interlayer  
Butacite PVB Interlayer

Hermes F. Norero, P.E.

Florida No. 73778

Page 3 of 4



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**Installation:** 1. Approved anchor types and substrates are as follows:

**Through Frame Installation:**

- A. For 2x wood buck substrate, use **#14 Wood Screw** type installation anchors of sufficient length to achieve a minimum embedment of 1.50" into the wood substrate.
- B. For concrete or masonry substrate where one by (1X), non-structural, wood bucking is employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- C. For concrete or masonry substrate where wood bucking is NOT employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- D. For steel stud substrate, use **1/4" TEK Screw** type steel stud anchors of sufficient length to achieve minimum 3 threads penetration beyond steel structure.
- E. For aluminum substrates, use **1/4" TEK Screw** type metal stud anchors of sufficient length to achieve minimum 3 threads penetration beyond aluminum structure.

Refer to Installation Instructions (**YKK020**) for anchor spacing and more details of the installation requirements.

**Design Pressure:**

Refer to Installation Instructions (**YKK020**) for design pressure limitations based on glass type, configuration, and sizes.

**Installation Methods:**

Refer to Installation Instructions (**YKK020**) for installation methods, anchor locations, and more details of the installation requirements.