

# **BUILDING DROPS**

A Perfect Solution in Every Drop Certificate of Authorization: 29578

# **Product Evaluation Report**

of

### YKK AP America, Inc. Series "YHS 50 TU" Aluminum Storefront System HVHZ Impact Rated

for

### **Florida Product Approval**

## FL# FL14218

# Report No. 4013

### **Current Florida Building Code**

Method: Category: Sub – Category: 1 – D (Engineering Evaluation) Panel Walls Storefronts

Product: Material: Product Dimensions: YHS 50 TU Storefront System Aluminum 6063-T5 See installation instructions, YKK161

### **Prepared For:**

YKK AP America, Inc. 332 Firetower Road Dublin, GA 31021

**Prepared by: Hermes F. Norero, P.E.** Florida Professional Engineer # 73778 Date: 12/18/2015

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Manufacturer:		YKK AP America, Inc.	
Product Category:		Panel Walls	
Product Sub-Category:		Storefronts	
Compliance Method:		State Product Approval Method (1)(d)	
Product Name:	:	Series "YHS 50 TU" Aluminum Storefront System	
Scope:	America	This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for <b>YKK AP</b> America, Inc. based on <u>Method 1d</u> of the State of Florida Product Approval, Florida Department of Business and Professional Regulation - Florida Building Commission.	
	manufa	F. Norero, P.E. does not have nor will acquire financial interest in the company cturing or distributing the product or in any other entity involved in the approval process of duct named herein.	
	This pro	duct has been evaluated for use in locations adhering to the Florida Building Code.	
		e Installation Instructions <b>YKK161</b> , signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for ecific 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	
	3.	substrate material shall be beyond wall dressing or stucco. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the Florida Building Code and <u>does not</u> require an impact resistant covering.	

- 4. Site conditions that deviate from the details of drawing **YKK161** require further engineering analysis by a licensed engineer or registered architect.
- 5. See Installation Instructions **YKK161** for size and design pressure limitations.



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- ASTM E330-02
- ASTM E331-00
- ASTM E1886-05
- ASTM E1996-09
- TAS 201-94
- TAS 202-94
- TAS 203-94

### **Referenced Data:**

- Product Testing performed by Hurricane Testing Laboratory Report #: 0231-0704-04, Report Date: 10/26/04 Report #: 0231-1203-08, Report Date: 12/18/08 Report #: 0231-0306-11, Report Date: 04/25/11 Report #: 0231-1001-10, Report Date: 10/22/10
- Product Testing performed by Architectural Testing (FBC Organization # TST3892)
   Report #: 3925.01-550-18, Report Date: 12/12/11
- Product Testing performed by America Test Lab of South Florida (FBC Organization # TST3782) Report #: 0809.01-06, Report Date: 11/08/06
- 4. Material Certification
  Miami-Dade County Notice of Acceptance
  E.I. DuPont De Nemours & Co. Inc. (now Kuraray America)
  SentryGlas Interlayer
- Material Certification
  Miami-Dade County Notice of Acceptance
  Eastman Chemical Company (Previously Solutia)
  Vanceva Storm (Saflex CP)



### Installation:

Refer to Installation Instructions (YKK161) for anchor spacing and more details of the installation requirements.

#### **Design Pressure:**

Refer to Installation Instructions (**YKK161**) for design pressures based on size, configuration, and glass types.

### **Equivalence of Test Standards:**

- Various test standard(s) 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.
   YKK AP has tested their products to the following test standard edition(s):
  - 1) ASTM E283-99

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

1) ASTM E283-04

After review of the above mentioned referenced standards and editions, it has been found that no significant technical changes have been made to the test standards that would affect the results. All referenced standards have been found to be equivalent. All materials test results meet minimum requirements of the current Florida Building Code.

- 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.
  YKK AP has tested their products to the following test standard edition(s):
  - 2) ASTM E283
  - 3) ASTM E331
  - 4) ASTM E330
  - 5) TAS 202-94

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

2) AAMA 501-05

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 with AAMA 501-05. All referenced standards have been found to be equivalent.

Hermes F. Norero, P.E. Florida No. 73778 Page 4 of 4