



BUILDING DROPS

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Product Evaluation Report

of

**YKK AP America, Inc.
YOW 350 Series Thermal Mullions**

for

Florida Product Approval

FL# FL19017

Report No. 4975

Current Florida Building Code

Method:	2 – B (Engineering Evaluation)
Category:	Windows
Sub – Category:	Mullions

Product:	<i>YOW 350 Series Thermal Mullions</i>
Material:	Aluminum 6063-T5
Product Dimensions:	<i>See Installation Instructions, YKK215</i>

Prepared For:

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

Prepared by:

Hermes F. Norero, P.E.

Florida Professional Engineer # 73778

Date: 08/07/2017

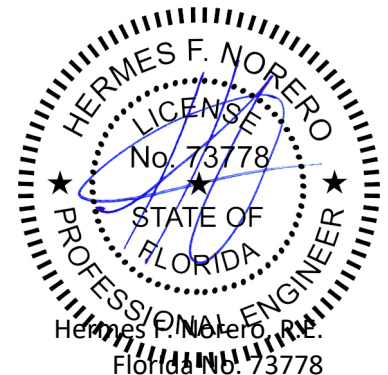
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Digitally signed by Hermes F. Norero, P.E.

Reason: I am approving this document

Date: 2017.08.18 10:50:30 -04'00'





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FL #: **FL19017**

Date: 08/07/2017

Report No: 4975

Manufacturer: YKK AP America, Inc.

Product Category: Windows

Product Sub-Category: Mullions

Compliance Method: State Product Approval Method (2)(b)

Product Name: YOW 350 Series Thermal Mullions

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **YKK AP America, Inc.** based on Method 2b of the State of Florida Product Approval, Department of Business and Professional Regulations - 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 **YKK215**, 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 Florida Building Code and does not require an impact resistant covering in Wind Zones 3 or less.
4. Site conditions that deviate from the details of drawing **YKK215** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **YKK215** 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 for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Architectural Testing, Inc.** (FBC Organization #: QUA1844).

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

- AAMA/WDMA/CSA 101/I.S.2/A440-08
- 6th Edition FBC, Section 1709.8

Referenced Data:

1. Product Testing performed by **Architectural Testing**
(FBC Organization # TST3892)
Report #: E3617.06-550-44, Report Date: 03/12/15
2. Quality Assurance
Architectural Testing, Inc.
(FBC Organization #: QUA1844)

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

All Installation Types:

- A. For 2x wood buck substrate (Min. S.G. = 0.55), 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 (Min. f'_c = 3000 psi) substrate where one by (1X), non-structural, wood bucking is employed, or directly to concrete/masonry substrates 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 steel substrate (Min. 18 ga. steel, min. f_y = 33 ksi), use **1/4" TEK Screw** type steel stud anchors of sufficient length to achieve minimum 3 threads penetration beyond steel structure.
- D. For aluminum substrate (Min. 1/8" 6063-T5 aluminum), use **1/4" TEK Screw** type metal frame anchors of sufficient length to achieve minimum 3 threads penetration beyond aluminum structure.

Refer to Installation Instructions (**YKK215**) for anchor spacing and more details of the installation requirements.



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Design Pressure:

Refer to Installation Instructions (**YKK215**) for design pressures based on size, configuration, and glass types.

Installation Methods:

Refer to Installation Instructions (**YKK215**) for installation methods, anchor locations, and more details of the installation requirements.