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Product Evaluation Report

of

YKK AP America
"YOW-225H/YOW-225TU Series Windows"
Clipped/Unclipped Stacking Mullion - 4518
(Impact)

for

Florida Product Approval

FL# FL15710

Report No. 5049

Current Florida Building Code

Method:	**1 – D (Engineering Evaluation)**
Category:	**Windows**
Sub – Category:	**Mullions**

Product:	***Clipped/Unclipped Stacking Mullion - 4518***
Material:	**Aluminum 6063-T5**

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

Prepared by:
Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 08/26/17

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.10.08 13:23:29 -04'00'

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

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

Manufacturer:	**YKK AP America**
Product Category:	Windows
Product Sub-Category:	Mullions
Compliance Method:	State Product Approval Method (1)(d)
Product Name:	Clipped/Unclipped Stacking Mullion – 4518

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **YKK AP America** based on Method 1d of the State of Florida Product Approval, Florida 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 **YKK230**, 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.
4. Site conditions that deviate from the details of drawing **YKK230** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **YKK230** for size and design pressure limitations.

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 evaluated and tested per:

- TAS 201-94
- TAS 202-94
- TAS 203-94
- 6th Edition FBC Section 1709.8

Referenced Data:

1. Product Testing performed by **Hurricane Test Laboratory, LLC - Florida**
   (FBC Organization # TST1527)
   Report #: HTL-0231-1019-05, Report Date: 08/18/06
   Signed and Sealed by Vinu J. Abraham, FL PE No. 56915, Sealed date: 08/18/06

2. Quality Assurance
   Architectural Testing, Inc.
   (FBC Organization #: QUA1844)

Installation:

1. Approved anchor types and substrates are as follows:

   A. For two by (2X) wood frame substrate, use **#12 Wood Screw** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing.

   B. For concrete or masonry substrate where one by (1X), non-structural, wood bucking is employed, or directly fastened to concrete or masonry, 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 metal stud, use **¼-20 SAE Gr. 5 Self-Tapping or Self-Drilling Screw** type metal stud anchors of sufficient length to achieve 3 threads of minimum penetration beyond metal structure.

Refer to Installation Instructions (**YKK230**) for anchor locations, installation methods, and more details of the installation requirements.

Design Pressure:

Refer to Installation Instructions **YKK230, sheets 4 & 5**, for design pressure tables and limitations of use.

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