BUILDING DROPS

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Certificate of Authorization: 29578

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Product Evaluation Report

of

NABCO Entrances, Inc.

System GT 1400 Automatic Aluminum Bifold Glass Door (Non-Impact)

for

Florida Product Approval

FL# FL16167

Report No. 3990

5th Edition Florida Building Code 2014

Method:	**1 – A (Certificate)**
Category:	**Exterior Doors**
Sub – Category:	**Automatic Exterior Door Assemblies**
Product:	***System GT 1400 Automatic Aluminum Bifold Glass Door (Non-Impact)***
Material:	**Aluminum**
Product Dimensions:	***96.19" x 91.25" (Maximum)***

Prepared For:

NABCO Entrances, Inc.
S82 W18717 Gemini Dr.
Muskego, WI 53150

Prepared by:

Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 09/28/15

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Digitally signed by Hermes F Norero, P.E.
Reason: I am approving this document
Date: 2015.11.21 19:34:54 -05'00'

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

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

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Manufacturer:	**NABCO Entrances, Inc.**
Product Category:	Exterior Doors
Product Sub-Category:	Automatic Exterior Door Assemblies
Compliance Method:	State Product Approval Rule (1)(a)
Product Name:	**System GT 1400 Automatic Aluminum Bifold Glass Door (Non-Impact)** 96.19" x 91.25" (Maximum)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **NABCO Entrances, Inc.** based on Method 1a 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 Florida Building Code.

See Installation Instructions **NAB006**, 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 require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **NAB006** require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **NAB006** for size and design pressure limitations.

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Certification Agency: The manufacturer has demonstrated compliance of door products in Accordance with the Florida Building Code and State Rules for manufacturing under a quality assurance program audited by an approved quality assurance entity through **National Accreditation & Management Institute, Inc.** (FBC Organization #QUA1789)

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

- TAS 202-94

Referenced Data:

1. Product Testing performed by **Hurricane Engineering and Testing, Inc.**
   (FBC Organization # TST1691)
   Report #: HETI-00-1159, Report Date: 10/06/00

2. Certification Agency

   National Accreditation & Management Institute, Inc.
   (FBC Organization #QUA1789)

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

Through Frame Installation:

A. For concrete (Min. f'c = 3000 psi) or masonry substrate (CMU shall adhere to ASTM C90) 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.

B. For concrete (Min. f'c = 3000 psi) or masonry substrate (CMU shall adhere to ASTM C90) 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.

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 steel stud anchors of sufficient length to achieve minimum 3 threads penetration beyond aluminum structure.

Refer to Installation Instructions (**NAB006**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Design Pressure	
Positive	50 PSF
Negative	60 PSF

Installation Methods:

Refer to Installation Instructions (**NAB006**) for installation methods, anchor locations, and more details of the installation requirements.