

## **ENGINEERING EXPRESS® (EX) PRODUCT EVALUATION REPORT**

August 8, 2023

Application Number: FL 15937  
EX Project Number: 23-63506  
  
Product Manufacturer: American Products, Inc.  
Manufacturer Address: 13909 Lynmar Blvd.  
Tampa, FL 33626

Product Name & Description: Series 2500 Glazed Commercial Door with Transom  
Large Missile Impact Resistant – Level “D”

### ***Scope of Evaluation:***

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1 (d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023) and is, for the purpose intended, at least equivalent to that required by the Standard and Code. Re-evaluation of this product shall be required following pertinent Florida Building Code or ASCE Standard modifications or revisions.

### ***Substantiating Data:***

- **PRODUCT EVALUATION DOCUMENTS**

EX Performance Evaluation document # 23-63506 titled “Series 2500 Glazed Commercial Door with Transom”, prepared by Engineering Express, Inc., signed & sealed by Frank Bennardo, P.E. is an integral part of this Evaluation Report, pages 1 through 14.

- **TEST REPORTS (IF APPLICABLE)**

Uniform static, large missile impact, and cyclic pressure structural performance has been tested in accordance with TAS 201/202/203-94 and all applicable sections of AAMA 501 test standards per test report(s) #B8049.01-401-18, #B8050.01-401-18 signed and sealed by Shawn G. Collins, P.E & #F7401.01-401-18 signed and sealed by Justin P. McDonald P.E, for Architectural Testing Inc.

American Products, Inc. – Series 2500 Glazed Commercial Door with Transom

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Maximum Allowable Spans
2. Glass Capacity
3. Anchor Capacity

### ***Impact Resistance:***

Impact Resistance has been demonstrated as evidenced in previously listed test reports and is accounted for in the engineering design of this product.

### ***Wind Load Resistance:***

This product has been designed to resist wind loads as indicated on its respective Product Evaluation Document (i.e., engineering document).

### ***Installation:***

The product listed above shall be installed in strict compliance with the Performance Evaluation document (i.e. engineering document), along with all components noted therein.

The product components shall be of the material specified in the Performance Evaluation document (i.e. engineering document).

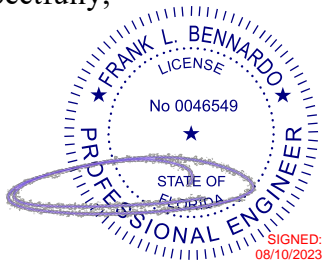
### ***Limitations & Conditions of Use:***

Use of each product shall be in strict accordance with its respective Performance Evaluation document (i.e. engineering document) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times. Any alteration to the respective Performance Evaluation document will invalidate it. This product has been designed for use inside and outside of the High Velocity Hurricane Zone (HVHZ & NON-HVHZ).

Respectfully,



Frank Bennardo, P.E.

**ENGINEERING EXPRESS®**

#PE0046549 | Cert. Auth. 9885



August 8, 2023

Product Approval Administrator  
DBPR Codes and Standards  
2601 Blair Stone Road  
Tallahassee, FL 32399

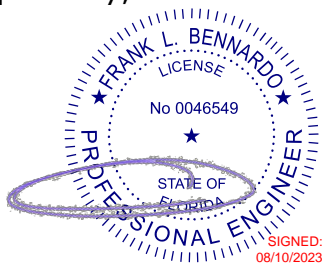
Regarding: American Products, Inc.  
Series 2500 Glazed Commercial Door with Transom-  
FL #15937.1 – EX # 23-63506

To Whom It May Concern:

This office has reviewed test report(s) showing the structural performance of the above-noted product(s). These test report(s) pertain to testing performed in accordance with the referenced standard(s) in the table shown below. The noted standard(s) are not adopted in the Florida Building Code Eighth Edition (2023); however, for the purpose of determining the performance of the product, the standard(s) are equivalent to the corresponding standard(s), which are adopted in the above-referenced building code.

Code Title	Tests Performed according to:	Current Equivalent Standard
Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Impact Protective Systems Impacted by Missiles and Exposed to Cyclic Pressure Differentials	ASTM E1886-02 & 05	ASTM E1886-19
Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes	ASTM E1996-06 or 12	ASTM E1996-20

Respectfully,



Frank Bennardo, P.E.  
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