### ENGINEERING EXPRESS® PRODUCT EVALUATION REPORT

# ENGINEERING EXPRESS® EXPERT PRODUCT EVALUATION REPORT

December 15, 2015

Application Number:

FL#14179.1 - 13

Engineering Express Project Number:

Product Manufacturer: American Products, Inc.

Manufacturer Address: 12157 W. Linebaugh Avenue #335

Tampa, FL 33626

Product Name & Description:

Series F2000-T 1" Thermal Flush Glazed

Non-Impact Aluminum Storefront

### Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Community Affairs (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 the Florida Building Code Fifth Edition (2014) and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

## Substantiating Data:

#### PRODUCT EVALUATION DOCUMENTS

Engineering Express drawing #14-1750 titled "Series F2000-T 1" Thermal Flush Glazed Non-Impact Aluminum Storefront System", sheets 1-4, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

### **TEST REPORTS**

Uniform static structural performance has been tested in accordance with AAMA 501-05, ASTM E330-02, and ASTM E331-00 test standards per test report(s) #A1438.01-401-44 by Architectural Testing, Inc.

#### 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. Anchor Spacing
- 2. Maximum Allowable Size/Pressure
- 3. Glass Capacity per ASTM E1300-04
- 4. Anchor Capacity

No 33% increase in allowable stress has been used in the design of this product.

Original Engineer's



#### E.X.P.E.R.T. PRODUCT EVALUATION REPORT (CONTINUED)

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Product Name & Description: Series F2000-T 1" Thermal Flush Glazed Non-Impact Aluminum Storefront

## Impact Resistance:

Large / Small Missile Impact Resistance has NOT been demonstrated as evidenced in previously listed test reports, and is NOT part of this certification.

### Wind Load Resistance

This product has been designed to resist wind loads as indicated in the span schedule(s) on the Product Evaluation Document (i.e. engineering drawing).

### Installation

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

The product components shall be of the material specified in the Product Evaluation Document (i.e. engineering drawing).

### Limitations & Conditions of Use:

Use of this product shall be in strict accordance with the Product Evaluation Document (i.e. engineering drawing) as noted herein.

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

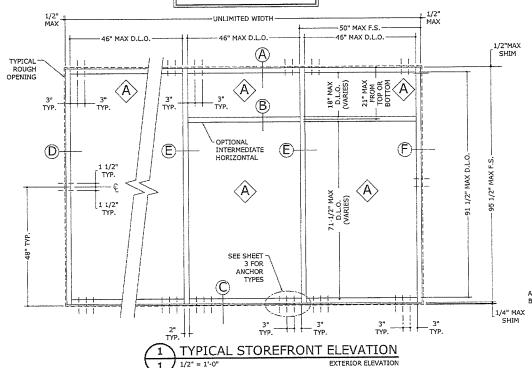
All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

This product has been designed for use outside the High Velocity Hurricane Zone (HVHZ) only and has NOT been designed for use within the High Velocity Hurricane Zone (HVHZ).

# SERIES F2000-T 1" THERMAL FLUSH GLAZED **ALUMINUM STOREFRONT SYSTEM**

NON IMPACT SYSTEM

ALLOWABLE **DESIGN PRESSURES** +45 PSF -45 PSF



#### **DESIGN NOTES**

DESIGN PRESSURE CAPACITY: +45PSF/-45PSF
(POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A 10B-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE SPECIFIC PRESSURES SHALL BE LESS THAN OR EQUAL TO THE LISTED POSITIVE OR NEGATIVE DESIGN PRESSURE VALUES FOR THE

#### **GENERAL NOTES**

- 1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE WITH 2009 SUPPLEMENTS, FOR NON-IMPACT USE OUTSIDE OF THE HOHZ ONLY, DESIGN CONFORMS TO AAMA 501-05 METHODS OF TESTS FOR
- EXTERIOR WALLS & ASTM E330-02, E331-00, AND E1300-04 GLASS DESIGN STANDARDS.
  2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.5 HAS BEEN USED FOR WOOD ANCHOR
- 3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- 4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.

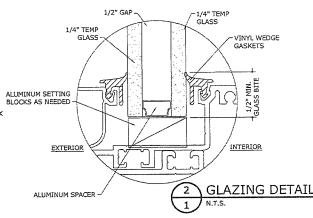
  5. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO
- WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS: BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

  6. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED

IN THE ABOVE-NOTED BUILDING CODE.

7. EXTERIOR SEAM OF FRAME CORNERS AND FULL EXTERIOR PERIMETER SHALL BE SEALED WITH SILLONE.





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