

# **W. W. Schaefer Engineering & Consulting, P.A. (CA #6809)**

7480 150<sup>th</sup> Court North  
Palm Beach Gardens, FL 33418  
Phone (561)744-3424

## **ENGINEER'S EVALUATION REPORT #WWS-203**

### **Prepared for:**

Signature Door, Inc.  
401 Priority Street  
Altoona, PA 16602  
Phone: 800-741-2265

### **Prepared by:**

Warren W. Schaefer, P.E.  
Florida Professional Engineer #44135

**Manufacturer:** Signature Door, Inc.

**Product Category:** Windows

**Evaluation Method:** 1-D (Engineer's evaluation)

**Product model & name:** Direct Glazed Impact Wood Impact Window

### **Documents that must accompany this report:**

1. W. W. Schaefer Engineering & Consulting drawing No. 1780

### **Window size restrictions and assembly requirements:**

See drawing NO. 1780

### **Maximum allowable design pressure:**

+65/-75 PSF

### **Installation requirements:**

See drawing No. 1780

### **Code compliance:**

Code section(s) considered with this evaluation:

FBC Chapter 17

#### Wood Coatings:

All wood members shall be of an approved durable species or be treated in an approved method with an approved preservative per applicable codes and standards.

#### Glass:

All glass meets the current ASTM E1300 standard.

#### Test Standards applicable to the testing of these windows:

TAS-201, 202 & 203 (some units were tested to PA-201, 202 & 203 which are found to be equivalent to TAS-201, 202 & 203)

Test Laboratory: Hurricane Test Laboratory, Inc. (Currently Architectural Testing, Inc).

Test report numbers: 0243-1012-03, 0243-0516-04, 0243-0608-03, 0243-0319-04, 0243-0322.-01, 0243-0802-01,0243-0605-01 & 0243-0929-01

**General report notes & system limitations:**

1. All size & installation conditions shown in this report and the referenced drawing No. 1780 are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. Windows shall be constructed in accordance with the descriptions in this report, and the manufacturer's state approved quality assurance entity specifications.
3. This product is approved for use in & outside of the High Velocity Hurricane Zones (HVHZ).
4. Job required design wind pressure shall be calculated in accordance with the Florida Building Code Chapter 16 and ASCE 7 Minimum Design Loads for Buildings and Other Structures (0.85 directionality factor may apply per the current ASCE 7 standard).
5. These windows are both small & large missile impact rated for use in wind zone 4 & missile level "D" locations and need not be shuttered.
6. When applicable, all safety glass requirements must be met per FBC.

**Quality Assurance Entity:** National Accreditation and Management Institute

JAN 09 2015

---

Warren W. Schaefer, P.E.  
Florida P.E. #44135

