

# 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-257

### 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: Doors

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

Product model & name: 10 Foot Wood In-swing Impact Doors

### Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1888

### Door size restrictions and assembly requirements:

See drawing NO. 1888

### Maximum allowable design pressure:

See drawing NO. 1888

### Installation requirements:

See drawing No. 1888

### 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.

### Mullions:

Mullion conditions stated in this approval have been tested in accordance with TAS-201, 202 & 203 and meet the requirements of FBC.

Test Standards applicable to the testing of these doors:

TAS-201, 202 & 203

Test Laboratory: Architectural Testing, Inc. (Previously named Hurricane Test Laboratory, Inc.)

Test report numbers: 0243-0319-04, 0243-0516-04, 0243-1013-03 & G243-1201-04. Note that all HVHZ test reports have been signed & sealed by a Florida PE.

**General report notes & system limitations:**

1. All size & installation conditions shown in this report and the referenced drawing No. 1888 are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. Doors 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 doors 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.
7. These door units are not approved for use where water infiltration resistance is required by the door. Unless units are installed in non-habitable areas where the unit & the area are designed to accept water infiltration, units shall be installed only at locations protected by a canopy or overhang where-by the overhang(oh) ratio is equal to or more than 1.0 per FBC.

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

AUG 14 2017

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

