

# **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-301**

### **Prepared for:**

Kawneer Company, Inc.  
555 Guthridge Court  
Norcross, GA 30092  
Phone: 770-449-5555

### **Prepared by:**

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

**Manufacturer:** Kawneer Company, Inc.

**Product Category:** Windows

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

**Product model & name:** Glassvent UT LMI & SMI Project-out Windows

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

1. W. W. Schaefer Engineering & Consulting drawing No. 1916

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

See drawing No. 1916

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

See drawing No. 1916

### **Installation requirements:**

See drawing No. 1916

### **Code compliance:**

Code section(s) considered with this evaluation:

FBC Chapters 17 & 24

### Glass:

All glass meets the current ASTM E1300 standard.

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

TAS-201, 202 & 203; ASTM E330, ASTM E331, ASTM E283, ASTM E1886 & ASTM E1996

Test Laboratory: Intertek Architectural Testing, Inc

Test report numbers: E4964.01-109-18, E4964.02-550-18 & E4970.01-109-18

Note: 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. 1916 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 installing small missile impact rated windows, they may not be installed at elevations below 30 ft. above grade or at any code designated large missile impact location without an approved shutter.

**Quality Assurance Entity:** Architectural Testing, Inc.

MAY 23 2016

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

