

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

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

ENGINEER'S EVALUATION REPORT #WWS-330

Prepared for:

Pella Corporation
102 Main Street
Pella, IA 50219
Phone: 641-621-1000

Prepared by:

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

Manufacturer: Pella Corporation

Product Category: Windows

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

Product model & name: HIG Aluminum Clad Wood Impact Awning Windows

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1520

Window size restrictions and assembly requirements:

See drawing No. 1520

Maximum allowable design pressure:

See drawing No. 1520

Installation requirements:

See drawing No. 1520

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17 & 24

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 windows:

TAS-201, 202 & 203

Test Laboratory: Architectural Testing, Inc. (ATI) & Element Material Technology

Test report numbers: ATI reports 71262.02-201-18, 71262.08-201-18, 93259.01-201-18 & 93328.01-201-18; Element reports ESP014011P, ESP017244P & ESP024464P.1

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. 1520 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 chapter 24.

Quality Assurance Entity: Window & Door Manufacturers Association (WDMA)

FEB 14 2017

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

