

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

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Palm Beach Gardens, FL 33418
Phone (561)744-3424

ENGINEER'S EVALUATION REPORT #WWS-243

Prepared for:

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092-3503
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: AA4325 Large & Small Impact Casement Window

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1851

Window size restrictions and assembly requirements:

See drawing NO. 1851

Maximum allowable design pressure:

+/-80 PSF

Installation requirements:

See drawing No. 1851

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17, 24 & 26

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, ASTM E330, E1886 & E1996 and meet the requirements of FBC.

Test Standards applicable to the testing of these windows:

TAS-201, 202 & 203
ASTM E-330 & E-331

Test Laboratory: Architectural Testing, Inc.

Test report numbers: T247-13, T257-13, T249-13, T251-13, T141-13, T145-13, T148-13,
T149-13, T151-13 & T260-13

General report notes & system limitations:

1. All size & installation conditions shown in this report and the referenced drawing No. 1851 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. Dry glazing gaskets are in accordance with ASTM C509, ASTM C1115 or ASTM E2203 per FBC.
7. Debridging/thermal breaks are in accordance with ASTM G26, D638, D2843, D635 & D1929 per FBC.

Quality Assurance Entity: (ATI) Architectural Testing, Inc., York, PA

JAN 06 2015

Warren W. Schaefer, P.E.
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