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Engineering Evaluation Report

Report No.: 514372

Manufacturer: Stergis Windows & Doors, Inc.
79 Walton St
Attleboro, MA 02703

Product Line: Series 143.191AW Vinyl Awning Window Non-impact.

Installation address: 200 Maple St
Chelsea, MA 02150

Compliance:

The product mentioned above has been evaluated for compliance with the requirements of the State of Massachusetts. The product listed herein complies with requirements of the Ninth Edition of the Massachusetts State Building Code 780 and the 2015 IBC and the 2015 IRC.

Scope:

This evaluation is issued to qualify the product listed above with a size different from the tested one. This product was tested using a 53 1/8" x 39" unit, the unit to be installed at the locations listed above is 64" x 25". The required design pressure is ± 35.0 psf, according to the manufacturer.

Supporting Technical Documentation:

1. Test report No.: ESP014395P-3, signed sealed by Ramesh Patel P.E.
Element Materials Technology, Wausau, WI
AAMA/WDMA/CSA 101/I.S.2/A440-05/08/11
Design pressure: ± 70.0 psf
Water penetration resistance: 12.0psf
2. Comparative analysis, report number 514372-1, prepared, signed and sealed by Luis Roberto Lomas P.E.

Conclusion:

Comparison analysis results indicate that the 64" x 25" unit may be rated at +80.0/-85.9psf, also a glass analysis indicates that the rating per glass used would be ± 63.6 psf, which exceeds the required design pressure; therefore, this unit is qualified to be installed at this location with the limitations listed below.

Limitations and Conditions of use:

- Maximum design pressure: ± 63.6 psf
- Unit size: 64" x 25"
- Units must be glazed per ASTM E1300-04/09.
- This product is not rated to be used in the HVHZ.
- This product is not impact resistant and requires impact protection in wind borne debris regions.
- Frame and sash material to be extruded rigid PVC.

Installation:

Units must be installed in accordance with manufacturer's installation instructions.

Certification of Independence:

Please note that I don't have nor will acquire a financial interest in any company manufacturing or distributing the product(s) for which this report is being issued. Also, I don't have nor will acquire a financial interest in any other entity involved in the approval process of the listed product(s).

