

Product Evaluation Report

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Product Manufacturer

Renaissance Windows and Doors
13340 International Parkway
Jacksonville, FL 32218

Product Name, Model and/or Description

Series 8500 Vinyl Fixed Window

Code: Current Edition of the Florida Building Code including the 7th Edition (2020) Florida Building Code

Compliance Method: Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Name, Model and/or Designation; Test Report No.; and Installation Drawing No.:

- Series 8500 Vinyl Fixed Window
 - Architectural Testing Inc. Test Report No. 77856.01-801-44 to AAMA/WDMA/CSA 101/I.S. 2/A440-05 for 48x96 Fixed Window at 50 psf DP.
 - Architectural Testing Inc. Test Report No. 02-46046.01 to AAMA/NWWDA 101/I.S. 2-97 for 60x78 Fixed Window at 50 psf DP.
 - PTC Drawing No. RWD0002, First Issue, dated 12/5/19, signed and sealed by Robert J. Amoruso, Renaissance Windows and Doors Series 8500 Vinyl Fixed Window – Installation Anchorage Details.

Engineering Analysis & Evaluation:

- Anchorage engineering (Report No. 2246-Calc) in accordance with the current edition of the Florida Building Code for Series 8500 Vinyl Fixed Window signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752.
- Glazing analysis resulted in (a) glass thickness increase over as tested glass thickness for 60x78 and (b) downsized tested unit size of 48x96 to 48x93 to accommodate adjustment to obtain tested DP with smaller window height.
 - See notes in “Performance Rating” table, sheet 1 of Installation Instructions.

Performance Standards (used in testing):

- AAMA/NWWDA 101/I.S. 2-97, Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.
- AAMA/WDMA/CSA 101/I.S. 2/A440-05, Standard/Specification for Windows, Doors, and Unit Skylights.

Limitations & Conditions of Use:

- The following product has not been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
 - Series 8500 Vinyl Fixed Window
- The following product will require an approved impact protective system when used in wind borne debris regions.
 - Series 8500 Vinyl Fixed Window
- Refer to Product Installation Instructions noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to substrate structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.



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- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

Certificate of Independence per Product Approval Rule 61G20-3.009

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Evaluated By:
Robert J. Amoruso, P.E.
FL P.E. License Number 49752

