

Product Evaluation Report

Rule 61G20 F.A.C. | Project No. ACE-2023-111 | Report No. PER-ACE-1007, Rev. 2 | 7/22/23 | Page 1 of 2

Product Manufacturer

Ventana USA
6001 Enterprise Drive
Export, PA 15632-8969

Product Name, Model, Series and/or Description

Series 2050/2051 Garden Window
Series 2050/2051 Garden Window (Impact)

Code: Current Edition of the Florida Building Code including the 8th Edition (2023) Florida Building Code

Compliance Methods: Product Approval Rule 61G20-3.005(1)(a) – Certification Mark or Listing

Product Testing, Materials and Certification:

- Ventana USA 2050/2051 Garden Window
 - Intertek Test Report No. H1329.01-301-44, dated 6/30/17
 - AAMA/WDMA/CSA 101/I.S. 2/A440-11
 - Class R-PG50 1545x1550 x457 (60x61x22)-Type GW
 - Certification by Keystone Certification, Inc.
 - CAR No. 010-127.0
- Ventana USA 2050/2051 Garden Window (Impact)
 - Intertek Test Report No. E2513.01-501-44, dated 11/20/20
 - AAMA/WDMA/CSA 101/I.S. 2/A440-08/11
 - Class LC-PG50 1600x1600x457 (63x63x22)-Type GH
 - Certification by Keystone Certification, Inc.
 - CAR No. 010-118.0
 - Intertek Test Report No. D4389.01-501-44, dated 11/17/20
 - ASTM E1886-05
 - ASTM E1996-12
 - Missile Level D, Wind Zone 3, DP+/-50, 63x63x22
 - Certification by Keystone Certification, Inc.
 - CAR No. 010-201
 - Series 2050 and Series 2051 are the same window. Difference is in installation method.
- Materials
 - Window Frame Material: Rigid Vinyl
 - Impact Glazing interlayer: Eastman Chemical Co. (MA) Saflex PVB Interlayer Miami-Dade Notice of Acceptance (NOA) found [here](#).

Product Installation Instructions:

- Drawing No. ACE0001, Rev. 0, dated 4/11/18, Installation Instructions for Series 2050/2051 Garden Window, signed and sealed by Robert J. Amoruso, P.E.
- Drawing No. ACE0003, Rev. 0, dated 10/19/20, Installation Instructions for Series 2050/2051 Garden Window (Impact), signed and sealed by Robert J. Amoruso, P.E.

Engineering Analysis: The following engineering and/or rational analysis/calculations have been performed.

- Anchorage has been verified by calculation prepared by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.
- Window glazing verified using ASTM E1300-04e1 and/or ASTM E1300-12AE1.

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Performance Testing:

- Ventana USA 2050/2051 Garden Window
 - AAMA/WDMA/CSA 101/I.S. 2/A440-11
- Ventana USA 2050/2051 Garden Window (Impact)
 - AAMA/WDMA/CSA 101/I.S. 2/A440-08/11
 - ASTM E1886-05
 - ASTM E1996-12

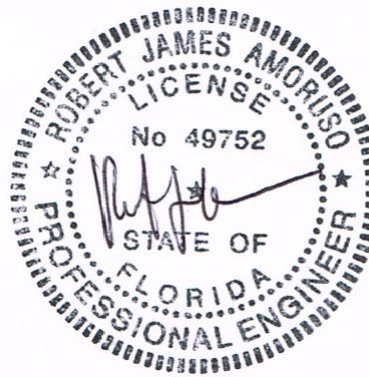
Limitations & Conditions of Use:

- This product has not been evaluated for use inside the HVHZ (High Velocity Hurricane Zone)
- Ventana USA 2050/2051 Garden Window shown on ACE0001 Instruction Instructions will require an impact protective system if used in a wind-borne debris region.
- Ventana USA 2050/2051 Garden Window (Impact) shown on ACE0003 Instruction Instructions will not require an impact protective system if used in a wind-borne debris region up to and including Wind Zone 3, Missile Level D. If used in a wind-borne debris region exceeding Wind Zone 3, Missile Level D, an impact protective system will be required.
- 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 the 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.
- 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

Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

Robert J. Amoruso, P.E. does not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



Digitally signed
by Robert J
Amoruso
Date:
2023.07.25
12:01:59 -04'00'

Evaluated by:
Robert J. Amoruso, P.E.
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