

Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Project No. ACE-2023-111 | Report No. EER-ACE-1007, Rev. 2 | 7/22/23 | Page 1 of 3

Product Manufacturer

Ventana USA
6001 Enterprise Drive
Export, PA 15632-8969

Product Name, Model 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 Method: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards

Product Testing and Certification: Intertek/Architectural Testing, 1140 Lincoln Ave., Springdale, PA 15144

- 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
 - Series 2050 and Series 2051 are the same window. The difference is in installation method.
- 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. The 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 Test Standards:

- 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

Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Project No. ACE-2023-111 | Report No. EER-ACE-1007, Rev. 2 | 7/22/23 | Page 2 of 3

Performance Testing Equivalency Evaluation per Product Approval Rule 61G20-3.015(4)(d):

Testing Standards Used		Testing Standards Required by the 8th Edition (2023) of the Florida Building Code		Comments
ASTM Designation	Year	FBC	FRC	
AAMA/WDMA/CSA 101/I.S.2/A440	11	11	11	See EVALUATION CONCLUSION below.
AAMA/WDMA/CSA 101/I.S.2/A440	08	08	08	
ASTM E1996	12	14a	14a	
ASTM E1886	05	13a	13a	

ASTM E1996 TESTING EVALUATION:

- 1) Wind Zone 4 testing
 - a. ASTM E1996-14 moved Wind Zone 4 criteria to the non-mandatory appendix. As indicated in Appendix X4.1, ASTM E1996-14a, the Wind Zone 4 requirement, though non-mandatory, is still present and may be specified when needed to meet specific building codes requirements. Those requirements are detailed in Sections 1609.1.2.2, 1609.1.2.4 and 1609.3 of the Florida Building Code. Based on a review of the test reports, those parameters are met.
- 2) The Missile Level and Impact Speed used in testing are consistent with those currently required by the Florida Building Code and ASTM E1996.
- 3) The static load (ASTM E330) and cyclic load (ASTM E1886/E1996) parameters used in testing are consistent with those currently required by the Florida Building Code.

EVALUATION CONCLUSION:

ASTM testing standards used in the performance evaluation of the above-mentioned product(s) were compared to the current revision level required in the 8th Edition (2023) of the Florida Building Code. No changes in the ASTM standards were found to affect the testing results. Therefore, testing is found to comply.

The currently issued Eastman Chemical Co. (MA) Saflex PVB Interlayer Miami-Dade Notice of Acceptance (NOA) found [here](#) has been reviewed against the testing requirements of the 8th Edition (2023) FBC for component/material properties testing and found to comply.

Conclusion: It was determined that the evaluated product testing is equivalent to the prescribed standards in the 8th Edition (2023) of the Florida Building Code.

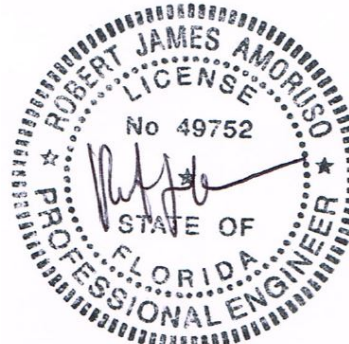
Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Project No. ACE-2023-111 | Report No. EER-ACE-1007, Rev. 2 | 7/22/23 | Page 3 of 3

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and 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.

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do 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
11:59:20 -04'00'

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