

# Product Evaluation Report

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## Product Manufacturer

Shwinco Architectural Products, LLC  
171 Jet Services Way  
Dothan, AL 36303

## Product Name, Model and/or Description

Series 9700 Vinyl Sliding Glass Door - HVHZ

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

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

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

- Series 9700 Vinyl Sliding Glass Door (4-Track, OXXX-A-XXXO), DP = 50 psf
  - Test Report No. SV31355-20190517-Report-A by UL LLC, 750 Anthony Road, Northbrook, Illinois 60062, signed and sealed by Alex Spyrou, Florida P.E.
    - 4 Track OXXX-A-XXXO Sliding Glass Door, 383.5 in x 95.5 in
      - Envelopes OXX-A-XXO (3-Track), OX-A-XO (2-Track), OX-A-O (2-Track), O-A-XO (2-Track)
    - Tested to:
      - AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011
      - AAMA/WDMA/CSA 101/I.S.2/A440-17, NAFS 2017
      - ASTM E1886-13a
      - ASTM E1996-14a
      - Testing Application Standard (TAS) 201-94
      - Testing Application Standard (TAS) 202-94
      - Testing Application Standard (TAS) 203-94
    - Glazing:
      - Insulated unit (1" overall):
      - Glass thickness: 1-inch IG; 3/16T-.375 dura seal air space- 3/16H(0.075 Vanceva)3/16H
      - Type of glass: Laminated
      - Type of spacer: .375 dura seal air spacer
      - Type of sealant: Drop glazed using DOW995 Interior Glazing leg with external snap in glazing bead.
  - PTC Product Design Group Drawing No. SHW0003, Rev. B, dated 6/19/23, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752
- Series 9700 Vinyl Sliding Glass Door (4-Track, OXXX, XXXO). DP = 65 psf
  - Test Report No. SV31355-20190517-Report-C by UL LLC, 750 Anthony Road, Northbrook, Illinois 60062, signed and sealed by Alex Spyrou, Florida P.E.
    - 4 Track OXXX Sliding Glass Door, 192.5 in x 95.5 in
      - Envelopes OXXX & XXXO (4-Track), OXX & XXO (3-Track) and OX & XO (2-Track)
    - Tested to:
      - AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011
      - AAMA/WDMA/CSA 101/I.S.2/A440-17, NAFS 2017
      - ASTM E1886-13a
      - ASTM E1996-14a
      - Testing Application Standard (TAS) 201-94
      - Testing Application Standard (TAS) 202-94
      - Testing Application Standard (TAS) 203-94
    - Glazing:
      - Insulated unit (1" overall):
      - Glass thickness: 1-inch IG; 3/16T-.375 dura seal air space- 3/16H(0.075 Vanceva)3/16H
      - Type of glass: Laminated



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321-690-1788 | FBPE Certification of Authorization No. 25935

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- Type of spacer: .375 dura seal air spacer
  - Type of sealant: Drop glazed using DOW995 Interior Glazing leg with external snap in glazing bead.
- PTC Product Design Group Drawing No. SHW0004, Rev. C, dated 6/19/23, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752
- Series 9700 Vinyl Sliding Glass Door (4-Track, OXXX, XXXO), DP = 50 psf
  - Test Report No. SV31355-20190517-Report-B by UL LLC, 750 Anthony Road, Northbrook, Illinois 60062, signed and sealed by Alex Spyrou, Florida P.E.
    - 4 Track OXXX Sliding Glass Door, 192.5 in x 95.5 in
      - Envelopes OXXX & XXXO (4-Track), OXX & XXO (3-Track) and OX & XO (2-Track)
    - Tested to:
      - AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011
      - AAMA/WDMA/CSA 101/I.S.2/A440-17, NAFS 2017
      - ASTM E1886-13a
      - ASTM E1996-14a
      - Testing Application Standard (TAS) 201-94
      - Testing Application Standard (TAS) 202-94
      - Testing Application Standard (TAS) 203-94
    - Glazing:
      - Insulated unit (1" overall):
      - Glass thickness: (Saflex PVB set) 1-inch IG; 3/16T-.375 dura seal air space- 3/16A(0.090 Saflex
      - PVB)3/16A
      - Type of glass: Laminated
      - Type of spacer: .375 dura seal air spacer
      - Type of sealant: Drop glazed using DOW995 Interior Glazing leg with external snap in glazing bead.
  - PTC Product Design Group Drawing No. SHW0004, Rev. C, dated 6/19/23, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752

## Component Approvals:

- Frame material: Extruded Rigid PVC by Vision Extrusions Limited approved per current Miami-Dade Notice of Acceptance (NOA) [here](#).
- Laminated glazing interlayer: Eastman Chemical Co. Saflex PVB and Vanceva approved per current Miami-Dade Notice of Acceptance (NOA) [here](#).

## Engineering Analysis & Evaluation:

- Anchorage engineering (Report No. 2612-Calc) in accordance with the current edition of the Florida Building Code for Series 9700 Vinyl SGD signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752.

## Performance Standards (used in testing):

- AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011
- AAMA/WDMA/CSA 101/I.S.2/A440-17, NAFS 2017
- ASTM E1886-13a
- ASTM E1996-14a
- Testing Application Standard (TAS) 201-94
- Testing Application Standard (TAS) 202-94



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- Testing Application Standard (TAS) 203-94

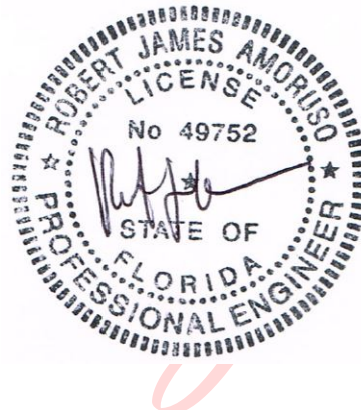
## Limitations & Conditions of Use:

- The following product has been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
  - Series 9700 Vinyl Sliding Glass Door
- The following product will not require an approved impact protective system when used in wind borne debris regions including the HVHZ.
  - Series 9700 Vinyl Sliding Glass Door
- 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.
- 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

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

