NOTICE OF ACCEPTANCE (NOA)

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, FL 33012

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County RER–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series “2001” 8'-0" Outswing Aluminum Glazed French Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. FD01–13, titled “Series 2001 Aluminum Outswing French Door –Large Missile Impact Resistant, sheets 01 through 08 of 08, dated 05/16/13, with the latest revision “2” dated 12/09/17, prepared by manufacturer, signed and sealed by Francisco Hernandez, P. E., bearing the Miami–Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA No. 15-0204.05 and consists of this page 1 and evidence pages E–1, E–2 and E–3, and Green Sustainable Attributes (GSA) page G–1 as well as approval document mentioned above.

The submitted documentation was reviewed by Jorge M. Plasencia, P. E.

NOA No. 17-1226.14
Expiration Date: May 08, 2023
Approval Date: April 05, 2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. DRAWINGS
   1. Manufacturer's die drawings and sections.
      *(Submitted under previous NOA's No.'s 14–0109.06 and 02–1104.03)*
   2. Drawing No. FD01–13, titled “Series 2001 Aluminum French Door - Impact Resistant Glass, sheets 01 through 08 of 08, dated 04/02/08, with the latest revision “1” dated 01/20/15, prepared by manufacturer, signed and sealed by Francisco Hernandez, P. E.

B. TESTS
   1. Test report on: 1) Air Infiltration Test, per FBC, TAS 202–94
                    2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
                    3) Water Resistance Test, per FBC, TAS 202–94
                    4) Large Missile Impact Test per FBC, TAS 201–94
                    5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
                    6) Forced Entry Test, Side–Hinged Door Systems, per FBC, chapter 2411 3.2.1, TAS 202–94 and per AAMA 1304–02
                   along with marked–up drawings and installation diagram of an Aluminum swinging Glass Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL–7262, dated 05/15/13, signed and sealed by Marlin D. Brinson, P. E.
                   *(Submitted under previous NOA No. 14–0109.06)*
   2. Test report on: 1) Air Infiltration Test, per FBC, TAS 202–94
                    2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
                    3) Water Resistance Test, per FBC, TAS 202–94
                    4) Large Missile Impact Test per FBC, TAS 201–94
                    5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
                    6) Forced Entry Test, Side–Hinged Door Systems, per FBC, chapter 2411 3.2.1, TAS 202–94 and per AAMA 1304–02
                   along with marked–up drawings and installation diagram of an Aluminum swinging Glass Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL–3399, dated 08/16/02, signed and sealed by Joseph C. Chan, P. E.
                   *(Submitted under previous NOA No. 02–1104.03)*

C. CALCULATIONS
   1. Anchor verification calculations and structural analysis, complying with the Florida Building Code 5th Edition (2014), prepared, dated 01/20/15, signed and sealed by Francisco Hernandez, P. E.
   2. Glazing complies with ASTM E1300–04/ 09

D. QUALITY ASSURANCE
   1. Miami–Dade Department of Regulatory and Economic Resources (RER).

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 17-1226.14
Expiration Date: May 08, 2023
Approval Date: April 05, 2018

E – 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 14–0916.10 issued to Kuraray America, Inc. for their "Kuraray PVB Glass Interlayer" expiring on 12/11/16.

F. STATEMENTS
2. Department of State Certification of SUNSHINE WINDOWS MANUFACTURING CORPORATION, INC. as a for profit corporation, active and organized under the laws of the State of Florida, dated 11/24/14 and e-filed by the Secretary of State.
3. Statement letter of conformance and complying with FBC–2010 and with AAMA/ WDMA/ CSA 101/ I.S. 2/ A440, issued, dated 12/05/13, signed and sealed by Francisco Hernandez, P. E.
   (Submitted under previous NOA No. 14–0109.06)
4. Statement letter of no financial interest and independence, issued, dated 12/05/13, signed and sealed by Francisco Hernandez, P. E.
   (Submitted under previous NOA No. 14–0109.06)
5. Laboratory compliance letter prepared by Fenestration Testing Laboratory, Inc., for Test Report FTL–7262, dated 05/15/13, signed & sealed by Marlin D. Brinson, P. E.
   (Submitted under previous NOA No. 14–0109.06)
6. Laboratory addendum letter prepared by Fenestration Testing Laboratory, Inc., for Test Report No. FTL–3399, dated 04/24/03, signed and sealed Joseph C. Chan, P. E.
   (Submitted under previous NOA No. 02–1104.03)
7. Laboratory compliance letter prepared by Fenestration Testing Laboratory, Inc., for Test Report No. FTL–3399, dated 08/16/02, signed and sealed Joseph C. Chan, P. E.
   (Submitted under previous NOA No. 02–1104.03)

G. OTHERS
2. NFRC U–Factor, SHGC, VT & Condensation Resistance Computer Simulation Report on: DDFR “Test Procedure for Measuring the Steady State Thermal Transmittance of Fenestration Systems” of the series 2001 Aluminum glazed outswing French door at all members, along with attached Description Table Abbreviations in Appendix, submittal Form and Drawings, marked–up by Fenestration Testing Laboratory, Inc., Simulation Report No. FTL–7625, pages 01 to 05 of 05, including Miami–Dade County NOA No. 14–0109.06 approval drawings, sheets 01 to 08 of 08, dated 12/03/13 and signed by Jose Sanchez, NFRC Certified Simulator–In–Responsible–Charge (CSIRC).
   (Submitted under previous NOA No. 14–0109.06)
Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED
   A. DRAWINGS
      1. Drawing No. FD01-13, titled “Series 2001 Aluminum Outswing French Door – Large Missle Impact Resistant, sheets 01 through 08 of 08, dated 05/16/13, with the latest revision “2” dated 12/09/17, prepared by manufacturer, signed and sealed by Francisco Hernandez, P. E.

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. None.

   D. QUALITY ASSURANCE
      1. Miami–Dade Department of Regulatory and Economic Resources (RER).

   E. MATERIAL CERTIFICATIONS
      1. Notice of Acceptance No. 17-1114.14 issued to Kuraray America, Inc. for their “Trosifol Ultraclear, Clear and Color PVB Glass Interlayers” expiring on 07/08/19.

   F. STATEMENTS

   G. OTHERS
      1. This NOA revises NOA #15-0204.05, expiring on 05/08/18.

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 17-1226.14
Expiration Date: May 08, 2023
Approval Date: April 05, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

I. GREEN SUSTAINABLE ATTRIBUTES (GSA)

**SCOPE:** This document is solely for the purpose of verification of Sustainable Attributes of construction materials. The documentation submitted has been reviewed by Miami-Dade County, Department of Regulatory and Economic Resources (RER), Product Control Section (PCS).

*(Submitted under previous NOA No. 14–0109.06)*

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*(Submitted under previous NOA No. 14–0109.06)*

**Legend**

<table>
<thead>
<tr>
<th>Abbreviations:</th>
<th>Description:</th>
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<tr>
<td>PVB</td>
<td>Poly Vinyl Interlayer</td>
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<td>clr.</td>
<td>Clear Glass</td>
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<td>SB60</td>
<td>PPG Solarban 60 or 70 @ #2 Surface Typical</td>
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<td>PPG Solarban 60 or 70 @ #2 Surface Typical</td>
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*(Submitted under previous NOA No. 14–0109.06)*

Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 17-1226.14
Expiration Date: May 08, 2023
Approval Date: April 05, 2018

G – 1
GENERAL NOTES:

2. SHUTTERS ARE NOT REQUIRED.
4. FOR INSTALLATION REFER TO INSTALLATION NOTES ON SHEET 6 OF 8, SEE CLUSTERS DETAILS ON SHEET 2 OF 8.
5. 1X OR 2X WOOD BUCKS NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE PROPERLY ATTACHED TO SUSTAIN AND TRANSFER THE LOADS IMPOSED BY THE GLAZING SYSTEM TO THE STRUCTURE AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
6. WOOD HOST STRUCTURE SHALL BE SOUTHERN YELLOW PINE G = 0.55 OF GREATER DENSITY.
7. CONCRETE / MASONRY STRUCTURE FOR UNIT ATTACHMENT SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
   - CONCRETE STRENGTH FC’28 = 3000 PSI MIN.
   - CMU AS PER ASTM C90. CMU MUST BE 8-INCH THICK, NORMAL WEIGHT BLOCKS WITH A MINIMUM COMPRESSIVE STRENGTH OF 1.5 KSI.
   - FILLED CMU FRM’ = 2000 PSI MIN.
9. ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN FBC.
10. STEEL HOST STRUCTURE SHALL NOT BE LESS THAN 18 GAUGE. STEEL SHALL BE Fy = 36 KSI MIN.
11. DOORS REQUIRING FULL USER PASSAGE SHALL COMPLY WITH EGRESS REQUIREMENTS OF FBC.
12. COLONIAL MUNTINGS CAN BE APPLIED.
13. SEE FRAME CORNERS AND PANEL CORNERS DETAILS ON SHEET 8 OF 8.
14. USE NON-SHRINK, NON-METALIC HYDRAULIC CEMENT GROUT PER ASTM C1107/C1107M STANDARD SPECIFICATION FOR PACKAGED DRY.

ELEVATIONS

INDEX OF DRAWINGS
1 OF 8: DOOR ELEVATIONS, DESIGN PRESSURES CHART, GENERAL NOTES AND INDEX OF DRAWINGS.
2 OF 8: INTERLOCK CLUSTERS DETAILS.
3 OF 8: TYPICAL HEAD SECTIONS.
4 OF 8: TYPICAL JAMB SECTIONS.
5 OF 8: TYPICAL SILL SECTIONS.
6 OF 8: HORIZONTAL SECTIONS & INSTALLATION NOTES.
7 OF 8: VERTICAL SECTIONS & MATERIAL LIST.
8 OF 8: CORNER DETAILS.

DESIGN PRESSURES

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<th>MAX. DOOR FRAME HEIGHT</th>
<th>DOOR LEAF WIDTH (NOMINAL)</th>
<th>DESIGN PRESSURE (PSF)</th>
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<tr>
<td>8'-0&quot;</td>
<td>3'-0&quot;</td>
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<td>6'-8&quot;</td>
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<tr>
<td></td>
<td>2'-6&quot;</td>
<td>90.00</td>
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</table>

* = FOR DOOR LEAF UNDER 3'-0" SEE NOTE 11.

FLUSH BOLTS:

1. TOTAL OF 4 (2 AT ACTIVE LEAF AND 2 AT INACTIVE LEAF AT HEAD AND AT SILL OF EACH).
2. ALL DOOR FLUSH BOLTS SHALL BE ENGAGED IN ORDER TO ACHIEVE THE DESIGN PRESSURES SHOWN ON CHART.
INTERLOCK CLUSTERS DETAILS

CLUSTER DETAIL
FOR ATTACHMENT TO CONCRETE
WITH OR W/O WOOD BUCKS
AT FRAME HEAD AND FRAME SILL

CLUSTER DETAIL
FOR ATTACHMENT TO WOOD
AT FRAME HEAD AND FRAME SILL

CLUSTER DETAIL
FOR ATTACHMENT TO METAL
AT FRAME HEAD AND FRAME SILL
ATTACHMENT TO CONCRETE THROUGH 1 X WOOD BUCK

1/4" # ULTRACON WITH 1 3/4" MIN. EMBEDMENT INTO CONCRETE. FOR MAX. ANCHOR SPACING SEE ELEVATIONS ON SHEET 1 OF 8. FOR CLUSTERS USE 5/16" # ULTRACONS. SEE CLUSTER DETAILS ON SHEET 2 OF 8.

1/4" # ULTRACON WITH 1 3/4" MIN. EMBEDMENT INTO CONCRETE. FOR MAX. ANCHOR SPACING SEE ELEVATIONS ON SHEET 1 OF 8. FOR CLUSTERS USE 5/16" # ULTRACONS. SEE CLUSTER DETAILS ON SHEET 2 OF 8.

ATTACHMENT TO CONCRETE WITHOUT WOOD BUCK

1" BY WOOD BUCK BY OTHERS MUST BE PROPERLY SEALED AND ANCHORED TO TRANSFER LOADS TO THE STRUCTURE AND APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.

ATTACHMENT TO METAL STRUCT.

1/4" # KWIK FLEX SELF DRILLING SCREWS THROUGH METAL WITH MIN. 3 THREADS BEYOND THE SUBSTRATE.

ATTACHMENT TO MULLION

METAL STRUCTURAL MEMBER BY OTHERS SHALL BE MINIMUM 16 GAUGE AND SHALL WITHSTAND ANCHOR SHEAR FORCES. INSTALLATION SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.

ATTACHMENT TO WOOD

WOODEN STRUCTURE OR 2 X WOOD BUCK (BY OTHERS). WOOD BUCK MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

TYPICAL HEAD SECTIONS

1" MIN. E.D.

-7/8" MIN. FLUSH BOLT ENGAGEMENT INTO FRAME THROUGH 1" X 5/8" HOLE.

1" MIN. E.D.

-7/8" MIN. FLUSH BOLT ENGAGEMENT INTO FRAME THROUGH 1" X 5/8" HOLE.
1" X WOOD BUCK BY OTHERS MUST BE PROPERLY SEALED AND ANCHORED TO TRANSFER LOADS TO THE STRUCTURE AND APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.

1/4" ULTRACON WITH 1 3/4" MIN. EMBEDMENT INTO CONCRETE. FOR MAX. ANCHOR SPACING SEE ELEVATIONS ON SHEET 1 OF 8.

ATTACHMENT TO CONCRETE / MASONRY THROUGH 1 X WOOD BUCK

WOODEN STRUCTURE OR 2 X WOOD BUCK (BY OTHERS). WOOD BUCKS MUST BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

1/4" ULTRACON WITH 1 1/2" MIN. EMBEDMENT INTO WOOD. FOR MAX. ANCHOR SPACING SEE ELEVATIONS ON SHEET 1 OF 8.

ATTACHMENT TO WOOD

MIAMI-DADE COUNTY APPROVED MULLION (UNDER SEPARATE NOA)

1/4" KWIX FLEX SELF DRILLING SCREWS THROUGH METAL WITH MIN. 3 THREADS BEYOND THE SUBSTATE. FOR MAX. ANCHOR SPACING SEE ELEVATIONS ON SHEET 1 OF 8.

ATTACHMENT TO MULLION

METAL STRUCTURAL MEMBER BY OTHERS SHALL BE MINIMUM 18 GAUGE AND SHALL WITHSTAND ANCHOR SHEAR FORCES. INSTALLATION SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.

1/4" KWIX FLEX SELF DRILLING SCREWS THROUGH METAL WITH MIN. 3 THREADS BEYOND THE SUBSTATE. FOR MAX. ANCHOR SPACING SEE ELEVATIONS ON SHEET 1 OF 8.

ATTACHMENT TO METAL STRUCT.

TYPICAL JAMB SECTIONS
ATTACHMENT TO CONCRETE

- High strength grout. Must be min. 3 ksi.
- Non shrink, non metallic per ASTM C1107.

- 7/8" min. flush bolt engagement into frame through 1" x 5/8" hole.

- 1/4" # Ultracomp with 1 3/4" min. embedment into concrete. For max. anchor spacing see elevations on Sheet 1 of 8. For clusters use 5/16" # Ultracomp. See cluster details on Sheet 2 of 8.

ATTACHMENT TO WOOD

- Metal structural member by others shall be minimum 18 gauge and shall withstand anchor shear forces. Installation shall be approved by building official prior to door installation.

- 7/8" min. flush bolt engagement into frame through 1" x 5/8" hole.

- 1/4" # Kwik Flex self drilling screws through metal with min. 3 threads beyond the substrate. For max. anchor spacing see elevations on Sheet 1 of 8 and cluster details on Sheet 2 of 8.

TYPICAL SILL SECTIONS

ATTACHMENT TO METAL

- High strength grout. Must be min. 3 ksi.
- Non shrink, non metallic per ASTM C1107.

- 7/8" min. flush bolt engagement into frame through 1" x 5/8" hole.

- 1/4" # Ultracomp with 1 3/4" min. embedment into wood. For max. anchor spacing see elevations on Sheet 1 of 8. For clusters use 5/16" # Ultracomp. See cluster details on Sheet 2 of 8.

GLAZING DETAIL

- 1/8" heat strengthened glass.
- Architectural perimeter trim (optional).
- 1/2" glass bite (minimum).

OPTIONAL WATERPROOFING
- Waterproofing design, material and installation by others.

WOODEN STRUCTURE OR 2 X WOOD BUCK (BY OTHERS).
- Wood bucks must be properly attached to transfer glazing system loads to the structure and approved by building official prior to window installation.

0.090" Trosifol PVB interlayer by Kuraray America.
INSTALLATION NOTES

1. FOR ANCHORS MAX. SPACING SEE DOOR ELEVATION ON SHEET 1 OF 8.

2. FOR CLUSTER DETAILS SEE SHEET 2 OF 8. FOR CLUSTERS USE ALWAYS 5/16" # ULTRACONS BY ELCO.

3. FOR ANCHOR TYPE AND INSTALLATION DETAILS SEE TYPICAL SECTIONS ON SHEETS 3, 4, 5 OF 8.

4. FOR ATTACHMENT TO CONCRETE THROUGH 1" X WOOD BUCK (EXCEPT IN CLUSTERS) USE 1/4" # ULTRACONS BY ELCO WITH 1 3/4" MIN. EMBEDMENT INTO SUBSTRATE AND 2 1/2" MIN. EDGE DISTANCE.

5. FOR ATTACHMENT TO CONCRETE WITHOUT WOOD BUCKS (EXCEPT IN CLUSTERS) USE 1/4" # ULTRACONS BY ELCO WITH 1 3/4" MIN. EMBEDMENT INTO SUBSTRATE AND 2 1/2" MIN. EDGE DISTANCE.

6. FOR ATTACHMENT TO WOODEN STRUCTURES OR 2" X WOOD BUCKS (EXCEPT IN CLUSTERS) USE 1/4" # ULTRACONS BY ELCO WITH 1 1/2" PENETRATION INTO SUBSTRATE AND 1 1/4" EDGE DISTANCE.

7. FOR ATTACHMENT TO STEEL MEMBERS (18 MIN. GAUGE) OR ALUMINUM MEMBERS (1/8" MIN. WALL THICKNESS) USE 1/4" KWIK--FLEX SELF DRILLING SCREWS INCLUDING CLUSTERS.

8. USE HIGH STRENGTH, NON SHRINK NON METALLIC GROUT (MIN 3 KS) BETWEEN DOOR SILL AND CONCRETE SLAB CONTINUOUSLY ALONG SILL.

HORIZONTAL SECTIONS