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 “1600” Aluminum Sliding Glass Door w/ Reinforcements-L.M.I.

APPROVAL DOCUMENT: Drawing No: SGD13-01 Rev 3, titled “Series- 1600 Aluminum Sliding Glass Door (L.M.I.)”, sheets 1 through 8 of 8, prepared by manufacturer, dated 03/26/14 and last revised on 10-23-17, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control 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

Limitations:
1. See Design Pressures and Pairs anchors requirements at frame jambs, intermediate anchors at head and sill (excluding cluster) and applicable to all sizes Pairs interlock clusters in Conc/Metal or Wood substrates in sheet 2.
2. Full length steel reinforcements at interlocks item # 11 and each panel bottom rails item #12 are required.
3. Concrete substrate at Head/sill and jambs may be into concrete or masonry. See Sheets 4 thru 6 for typical Head, Sill and jambs installations.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 renews # 17-1102.27 consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.
The submitted documentation was reviewed by Ishaq I. Chanda, P.E.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA

A. DRAWINGS
   1. Drawing No: SGD13-01, titled “Series- 1600 Aluminum Sliding Glass Door Impact Resistant Glass”, sheets 1 through 8 of 8, prepared by manufacturer, dated 03/23/14, with Revision 2 dated 01/24/16, signed and sealed by Francisco Hernandez, P.E.

B. TESTS
   1. Test reports 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, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagrams of OX Alum sliding Glass doors, prepared by Fenestration Testing Lab, Inc., Test Report No. FTL-6772 dated 01/11/2013, signed and sealed by Marlin D. Brinson, P. E. (Submitted under previous NOA No. 13-0910.01)

C. CALCULATIONS
   1. Anchor verification calculations and structural analysis, complying with FBC-2014, dated 01/24/16 and last revised on 02/05/16, prepared and sealed by Francisco Hernandez, P.E.
   2. Glazing complies w/ ASTME-1300-09.

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

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 13-0129.27 issued to E.I. DuPont DeNemours & Co., Inc. for their “Butacite @ PVB interlayer”, expiring on 12/11/16.

F. STATEMENTS
   1. Statement letter of conformance to FBC 2014, dated 01/28/15, and letter of no financial interest, dated 08/28/13 (submitted under previous NOA No. 13-0910.01) prepared, signed and sealed by Francisco Hernandez, P.E.
   2. Lab compliance as part of the above referenced test report.

G. OTHER
   1. None.

2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA

A. DRAWINGS
   1. Drawing No: SGD13-01, titled “Series- 1600 Aluminum Sliding Glass Door Impact Resistant Glass”, sheets 1 through 8 of 8, prepared by manufacturer, dated 03/23/14, with Revision 3 dated 10/23/17, signed and sealed by Francisco Hernandez, P.E.

B. TESTS
   1. None.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 18-1220.04
Expiration Date: April 17, 2024
Approval Date: January 17, 2019
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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. 16-1117.01 issued to Kuraray America, Inc. for their “Trosifol® Ultracear, Clear and Color PVB Glass Interlayers”, expiring on 07/08/19.

F. STATEMENTS

G. OTHER
1. This NOA revises NOA# 15-0204.04, expiring on 04/17/19
3. Evidence submitted under previous approvals

A. DRAWINGS
1. Drawing No: SGD13-01, titled “Series- 1600 Aluminum Sliding Glass Door (L.M.I.)”, sheets 1 through 8 of 8, prepared by manufacturer, dated 03/26/14, signed and sealed by Francisco Hernandez, P.E.

B. TESTS (submitted under file #13-0910.01)
1. Test reports 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) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagrams of OX Alum sliding Glass doors, prepared by Fenestration Testing Lab, Inc., Test Report No. FTL-6772 dated 01/11/, signed and sealed by Marlin D. Brinson, P. E.

C. CALCULATIONS
1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 08/24/13 and last revised on 03/26/14, prepared, signed and sealed by Francisco Hernandez, P.E.
2. Glazing complies w/ ASTM-E-1300-02 & -04.

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

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 18-1220.04
Expiration Date: April 17, 2024
Approval Date: January 17, 2019

E-2
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 11-0624.01 issued to E.I. DuPont DeNemours & Co., Inc. for their "Butacite ® PVB interlayer", expiring on 12/11/16.

F. STATEMENTS
1. Statement letter of conformance to FBC 2010 and letter of no financial interest, dated August 28, 2013, prepared, signed and sealed by Francisco Hernandez, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER
1. None.

I. NEW EVIDENCE SUBMITTED

A. DRAWINGS
1. Drawing No: SGD13-01 Rev 3, titled “Series-1600 Aluminum Sliding Glass Door (L.M.I.)”, sheets 1 through 8 of 8, prepared by manufacturer, dated 03/26/14 and last revised on 10-23-17, 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. 16-1117.01 issued to Kuraray America., Inc. for their "Trosifol ® Ultraclear, Clear and Color PVB Glass Interlayers", (former "Kuraray Butacite PVB Interlayer") expiring on 07/08/19.

F. STATEMENTS (Submitted under file #17-1102.27)

G. OTHER
1. This NOA renews #17-1102.27, expiring on 04/17/24.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 18-1220.04
Expiration Date: April 17, 2024
Approval Date: January 17, 2019
GENERAL NOTES:
2.- SHUTTERS ARE NOT REQUIRED.
3.- REFERENCES TO REPORT FTL-6772 DATED ON 01/11/2013.
4.- FOR INSTALLATION REFER TO ANCHOR DISTRIBUTION ELEVATIONS ON SHEET 2 OF 8, CLUSTERS DETAILS ON SHEET 2 OF 8 AND TYPICAL SECTIONS ON SHEETS 4 THRU 6 OF 8.
5.- WOOD BUCKS NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE PROPERLY ANCHORED AND SEALED 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 NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL BE SOUTHERN YELLOW PINE C = 0.55 OR GREATER DENSITY AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
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 B-INCH THICK, NORMAL WEIGHT BLOCKS WITH A MINIMUM COMpressive STRENGTH OF 1.9 KSI.
   - FILLED CMU Fm' = 2000 PSI MIN.
8.- STEEL HOST STRUCTURE NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL SHALL NOT BE LESS THAN 1/8" THICK. STEEL SHALL BE A-36 Fy = 36 KSI MIN. STEEL STRUCTURE SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
9.- ALUMINUM HOST STRUCTURE NOT INCLUDED IN THE SCOPE OF THIS PRODUCT APPROVAL. THE THICKNESS OF THE ALUMINUM HOST STRUCTURE SHALL NOT BE LESS THAN 1/8" ALUMINUM SHALL BE 6063-T6 AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO DOOR INSTALLATION.
10.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN FBC.
11.- DOORS SHALL COMPLY WITH EGRESS REQUIREMENTS OF FBC.
12.- COLONIAL MUNTINS CAN BE APPLIED.
13.- SEE CORNERS DETAILS ON SHEET 7 OF 8.
14.- USE NON-SHRINK, NON-METALLIC HYDRAULIC CEMENT GROUT PER ASTM C1107/C1107M STANDARD SPECIFICATION FOR PACKAGED DRY.

INDEX OF DRAWINGS
1 OF 8.- GENERAL NOTES AND INDEX OF DRAWINGS.
2 OF 8.- DOOR ELEVATION, DESIGN PRESSURES CHART, ANCHOR DISTRIBUTION CHART AND CLUSTERS DETAILS.
3 OF 8.- DOOR VERTICAL AND HORIZONTAL CROSS SECTIONS.
4 OF 8.- TYPICAL SECTIONS AT HEAD ATTACHMENT TO DIFFERENT SUBSTRATES.
5 OF 8.- TYPICAL SECTIONS AT JAMB ATTACHMENT TO DIFFERENT SUBSTRATES.
6 OF 8.- TYPICAL SECTION AT SILL ATTACHMENT TO DIFFERENT SUBSTRATES.
7 OF 8.- GLAZING DETAIL AND FRAME & PANEL CORNER DETAILS.
8 OF 8.- MATERIAL LIST AND PARTS DETAILS.

ANCHOR NOTES:
1.- MECHANICAL PROPERTIES OF ULTRAICON ANCHOR BY ELCO:
   A.- YIELD STRENGTH (FY)= 155 KSI
   B.- ULTIMATE TENSILE STRENGTH (FU)= 177 KSI
2.- MECHANICAL PROPERTIES OF KWIX-FLEX SELF-DRILLING SCREW (GRADE 5) BY HILTI:
   A.- YIELD STRENGTH (FY)= 92 KSI
   B.- ULTIMATE TENSILE STRENGTH (FU)= 120 KSI
3.- MECHANICAL PROPERTIES OF DRILL-FLEX SELF-DRILLING FASTENER (GRADE 5) BY ELCO:
   A.- YIELD STRENGTH (FY)= 92 KSI
   B.- ULTIMATE TENSILE STRENGTH (FU)= 120 KSI

FRANCISCO HERNANDEZ
PROFESSIONAL ENGINEER
No. 51363
DATE: 03-23-14
SCALE: NTS

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

No. 51363
DATE: 03-23-14
SCALE: NTS

GENERAL NOTES AND INDEX OF DRAWINGS
THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT HENCE IT DOES NOT REQUIRE SHUTTERS
DOOR ELEVATION

TYPICAL AT INTERLOCK HEAD AND SILL
ATTACHMENT TO CONCRETE AND METAL SUBSTRATES

TYPICAL AT INTERLOCK HEAD AND SILL
ATTACHMENT TO WOODEN SUBSTRATES

DETAIL OF ANCHOR CLUSTER
AT TOP AND BOTTOM OF INTERLOCK
NOTE: SEE MATERIAL LIST ON SHEET 8 OF 8 FOR ITEMS DESCRIPTION.

HORIZONTAL SECTION

VERTICAL SECTION

FOR INSTALLATION DETAILS SEE SHEETS 4 THRU 6
TYPICAL SECTIONS AT HEAD
ATTACHMENT TO DIFFERENT SUBSTRATES
TYPICAL SECTIONS AT JAMBS
ATTACHMENT TO DIFFERENT SUBSTRATES
TYPICAL SECTIONS AT SILL
ATTACHMENT TO DIFFERENT SUBSTRATES
GLAZING DETAIL AND FRAME & PANEL CORNERS DETAILS
### MATERIAL LIST

#### AND PARTS DETAILS

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<th>ITEM #</th>
<th>PART #</th>
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<td>2 TRACKS FRAME HEAD</td>
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<td>1 TOP AND 1 BOTTOM</td>
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<td>A-30 STEEL</td>
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