DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

CGI Windows & Doors, Inc.
10100 N. W. 25th Street
Miami, Fl. 33172

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 “Sentinel 165 Balcony Breeze” Single Inswing Aluminum door w/ SHW – LMI

APPROVAL DOCUMENT: Drawing No.18-26D Rev A, titled “Series Sentinel 165 Balcony Breeze Aluminum Inswing Door”, sheets 1 through 15 of 15, prepared by AL-Farooq Corporation, dated 01/23/18 and last revised on MAY 02, 2018, signed and sealed by Javad Ahmad, 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

Limitations:
1. See sheets 2 for Design Pressure ratings, max. DLO (day light opening) and Threshold types. See sheet 10 for the door and the SHW (Single Hung Window) glazing options and limitations.
2. ADA saddle threshold (item #E-24) not rated for water infiltration, unless protected by FBC compliant overhang.
3. The latch lock (item #M-20& #M-22) and 3-point CGI lock mechanism w/ dead bolts (item #M-21 & M-23) are integral part of each door w/SHW. Also the SHW is integral part of the single Door.
4. The Exterior lite of insulated laminated SHW using glazing option B-1, must be tempered, when used above 30’ above the grade (Small Missile Impact area).

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 revises #16-0329.02 consists of this page 1 and evidence pages E-1, E-2, E-3 & E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

NOA No. 17-0227.12
Expiration Date: July 28, 2021
Approval Date: May 31, 2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS
   1. Manufacturer's die drawings and sections (submitted under file below)
   2. Drawing No. AD16-04, titled “Series Sentinel 165 Balcony Breeze Aluminum Inswing Door”, sheets 1 through 13 of 13, prepared by MCY Engineering, Inc., dated JUL 05, 2016, signed and sealed by Yiping Wang, P.E.

B. TESTS (submitted under files #16-0329.02)
   1. Test reports on:
      2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
      3) Water Resistance Test, per FBC, TAS 202-94 (Std Threshold # E-6)
      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 manufacturer’s parts and section drawing marked-up drawings of single aluminum Inswing door w/ SHW, prepared by Certified Testing Laboratories, Inc., Test Report No. CTL 3076-1W, dated 12/21/15 for specimen #4, 5, & 6, signed and sealed by Ramesh Patel, P.E.

   Along with manufacturer’s parts and section drawing marked-up drawings of single aluminum Outswing door w/ SHW, prepared by Certified Testing Laboratories, Inc., Test Report No. CTL 3076W, dated 12/20/15 for specimen #1, 2, & 3, signed and sealed by Ramesh Patel, P.E.

   (Note: The above test reports have been revised by an addendum letter issued by Certified Testing lab dated June 27, 2016, signed and sealed by Ramesh Patel, P.E.)
   2. REF test report HTL 0080-912-97 per SFBC PA 202, 201/203-94.

C. CALCULATIONS (submitted under files #16-0329.02)
   1. Anchor verification calculations and structural analysis, complying with FBC-2014(5th Edition), prepared by MCY Engineering, Inc., dated MAR 18, 2016, signed and sealed by Yiping Wang, P.E.
   2. Glazing complies w/ ASTM-E-1300-02, -04 & -09.

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

E. MATERIAL CERTIFICATIONS
   2. Notice of Acceptance No. 16-117.01 issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc. for the “Kuraray Trofisol Ultra clear and color PVB Interlayer (Former Kuraray Butacite ® PVB interlayer)”, expiring on 07/08/19.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 17-0227.12
Expiration Date: July 28, 2021
Approval Date: May 31, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS
1. Statement letter of conformance to FBC 2014(5th Edition) and letter of no financial interest, prepared by MCY Engineering, Inc., dated MAR 14, 2016, signed and sealed by Yiping Wang, P.E.
2. Lab compliance and addendum letters, as part of the above referenced test reports.

G. OTHER
1. This NOA revises #16-0329.02, expiring July 18, 2021.
2. Test proposal dated 03/21/15 approved by RER.


A. DRAWINGS
1. Drawing No. 18-26D Rev A, titled “Series Sentinel 165 Balcony Breeze Aluminum Inswing Door”, sheets 1 through 15 of 15, prepared by AL-Farooq Corporation, dated 01/23/18 and last revised on MAY 02, 2018, signed and sealed by Javad Ahmad, 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 (Std Threshold # E-6)
   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 manufacturer’s parts and section drawing marked-up drawings of aluminum In/out swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. HTL-0080-0304-11 dated 08/03/2011 for specimens #2, 5, 9 12 & 15 (Inswing) and specimens #1, 4, 7 & 8 (outswing) tested per TAS 201, 202 & 203-94, signed and sealed by Vinu Abraham, P.E.

Along with manufacturer’s parts and section drawing marked-up drawings of aluminum In/out swing door w/sidelites, by Hurricane Testing Laboratory, Inc., Test Report No. HTL-97055 (0080-912-97) dated 09/23/97 thru 02/27/98 for specimen #1, 2, 3, 4 tested per PA202-94, specimen #4, 5A, 5B, 5C tested per PA201-94 & PA203-94, signed and sealed by Timothy S. Marshall, P.E. (submitted under file # 09-0723.04: Original tests conducted per SFBC, PA 201, 202 &203-94 now known as FBC, TAS 201, 202 & 203-94)

C. CALCULATIONS
1. Anchor verification calculations and structural analysis, complying with FBC 2017 (6th Edition), prepared by Al–Farooq Corporation, dated 02/28/18, signed and sealed by Javad Ahmad, P. E.

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

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 17-0227.12
Expiration Date: July 28, 2021
Approval Date: May 31, 2018

E - 2
E. MATERIAL CERTIFICATIONS

F. STATEMENTS
   1. Statement letter of conformance to FBC 6th Edition (2017) and of no financial interest, prepared by Al Farooq Corporation, dated 03/05/18, signed and sealed by Javad Ahmad, P.E.
   2. Statement letter dated May 01, 2018, issued by Al-Farooq Corporation of “Adoption of another Engineer’s work” per FLA chapter 61G15-27, signed by Javad Ahmad, P.E.

G. OTHER
   1. This NOA revises NOA # 16-0329.02, expiring 07/28/21.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 17-0227.12
Expiration Date: July 28, 2021
Approval Date: May 31, 2018
GENERAL NOTES:
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 6TH EDITION OF THE FLORIDA BUILDING CODE, INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- PRODUCT IS RATED FOR LARGE MISSILE IMPACT AND SMALL MISSILE IMPACT.
- MIAMI-DADE COUNTY APPROVED HURRICANE PROTECTION SYSTEMS (SHUTTERS) ARE NOT REQUIRED.
- ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDDED TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN ON DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS, SHALL MEET THE REQUIREMENTS OF THE 2014/2017 FLORIDA BUILDING CODE AND ADOPTED STANDARDS.
- METAL STRUCTURES (NOT BY CGI WINDOWS AND DOORS, INC.) TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING STRUCTURAL MEMBERS AND SHALL BE REVIEWED BY A BUILDING OFFICIAL.
- THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-10, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO THE MAXIMUM DESIGN LOAD IN THIS DOCUMENT.
- DOORS ARE APPROVED FOR AIR AND WATER INfiltrATION REQUIREMENTS, EXCEPT THOSE UNITS WITH INSTALLED ADA THRESHOLD. SEE NOTE BELOW FOR OVERHANG REQUIREMENTS.

OVERHANG REQUIREMENTS:
ADA THRESHOLD IS NOT APPROVED IN AREAS WHERE WATER INfiltrATION REQUIREMENT IS NEEDED. IT COULD BE INSTALLED AT LOCATIONS PROTECTED BY AN OVERHANG MEETING THE CRITERIA IN ILLUSTRATION BELOW OR IN NON-HABITABLE AREAS WHERE WATER INfiltrATION IS ACCEPTED, PER FBC REQUIREMENTS.

OVERHANG RATIO = OVERHANG LENGTH / OVERHANG HEIGHT ≥ 1

TYPICAL ANCHORS:
(SEE ELEVATIONS SHEET 2 FOR SPACING)

TYPE A:
1/4" DIA. ULTRA CON BY ELCO (Fu = 177 KSI, Fy = 155 KSI)
INTO 2B8 WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMB)
THRU 1 BY BUCKS INTO CONCRETE (HEAD/SILL OR BLOCKS (MASONRY) (JAMB5 ONLY)
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/STD. SILL)
1-3/4" MIN. EMBED INTO GROUT FILLED OR HOLLOW BLOCK (JAMB5)
DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBEDMENT INTO CONCRETE (HEAD/STD. SILL/JAMB5)
1-3/4" MIN. EMBEDMENT INTO CONCRETE (ADA SILL ONLY)

TYPE B:
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES (HEAD/SILL/JAMB)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE:
ALUMINUM: 1/8" THK. MIN. (G063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEM IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
* METAL STRUCTURES TO BE REVIEWED BY AHJ FOR ADDITIONAL DEAD LOAD.

TYPICAL EDGE DISTANCE:
INTO CONCRETE AND BLOCKS (MASONRY) = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMB5: SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMB5: fC = 3000 PSI MIN.
MASSONRY:
C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB5: fM = 2000 PSI MIN.

SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICON SEALANT.

WOOD BUCKS:
1X OR 2X WOOD BUCKS NOT BY CGI WINDOWS AND DOORS, INC. MUST BE PROPERLY SECURED TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
### Allowable Design Load

<table>
<thead>
<tr>
<th>Load Type</th>
<th>Load Value (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Std. Threshold</td>
<td>+90 - 110</td>
</tr>
<tr>
<td>With ADA Threshold</td>
<td>+90 - 90</td>
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</table>

**NOT APPROVED**

- Where water infiltration is not needed.

**See Overhang requirement (Sheet #1)**
DOOR PANEL GLAZING DETAILS AND OPTIONS

GLASS TYPE A
7/16" OVERALL THICKNESS

GLASS TYPE B
1" OVERALL THICKNESS

GLASS TYPE C
5/16" OVERALL PANEL THICKNESS

ALUM. CLAD PLYWOOD TYPE C
7/16" OVERALL PANEL THICKNESS

GLASS TYPE D
1" OVERALL PANEL THICKNESS

ALUM. CLAD PLYWOOD TYPE D
0.7" OVERALL THICKNESS

SINGLE HUNG WINDOW GLAZING DETAILS AND OPTIONS

GLASS TYPE E
5/16" OVERALL THICKNESS

GLASS TYPE F

0.7" OVERALL THICKNESS

TO QUALIFY SWF FOR SMALL MISSILE IMPACT RATING, THE EXTERIOR FLY OF INSULATED GLASS "F" MUST BE FULLY TEMPERED WHEN USED AT SMALL MISSILE IMPACT AREAS (ABOVE 30 FEET ABOVE GRADE) (SWF IS INTEGRAL PART OF THE DOOR APPROVAL)
## BILL OF MATERIALS

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<tr>
<th>ITEM</th>
<th>PART No.</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
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<td>CGI-500A</td>
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<td>M18</td>
<td>HD-350I</td>
<td>1</td>
<td>LATCH LOCK, STRIKE PLATE &amp; DEADBOLT DUST BOX</td>
<td>NYLON</td>
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<tr>
<td>M19</td>
<td>HD-525-REV</td>
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<td>BOLT LOCK ASSEMBLY</td>
<td>5/STEEL</td>
<td>GGI</td>
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<td>M20</td>
<td>HD-545S</td>
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<td>WAVE SATIN NICKEL DEADBOLT</td>
<td>5/STEEL</td>
<td>BALDWIN</td>
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<td>M21</td>
<td>HD-823I</td>
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<td>TRADITIONAL SATIN NICKEL DEADBOLT</td>
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<td>BALDWIN</td>
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<td>M22</td>
<td>HD-34-101G</td>
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<td>WAVELINE SATIN STRIKE LEVER</td>
<td>5/STEEL</td>
<td>COPPER-CREEK</td>
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<td>M23</td>
<td>HD-024055</td>
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<td>SATIN STAINLESS DEADBOLT</td>
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<td>COPPER-CREEK</td>
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<td>M24</td>
<td>HD-101G</td>
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<td>1LEAF 4-1/2&quot; x 4&quot; x 0.140&quot; THK. HINGE</td>
<td>5/STEEL</td>
<td>BULLNIZ</td>
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<td>M25</td>
<td>HD-AB600-LS</td>
<td>1</td>
<td>4LEAF 4-1/2&quot; x 4&quot; x 0.140&quot; THK. HINGE</td>
<td>5/STEEL</td>
<td>HAGER</td>
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<td>M26</td>
<td>HD-350G</td>
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<td>THREE POINT LOCK MECHANISM ASSEMBLY</td>
<td>5/STEEL</td>
<td>GGI</td>
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<td>M27</td>
<td>HD-SHEAR PLATE</td>
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<td>SHEAR PLATE</td>
<td>DS63-T6</td>
<td>EASASBY</td>
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<tr>
<td>M28</td>
<td>HD-4050P</td>
<td>1</td>
<td>FULLY THREADED ROD (ZINC PLATED)</td>
<td>5/STEEL</td>
<td>EASASBY</td>
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</table>

### WINDO W HOLEs

- **a)** WINDOW
  - W1: 1' x 1.1/4" LONG WINDO W SLOT, 6" FROM EACH END
  - W2: 1/2" LONG NOTCH, EACH END
- **b)** DOOR
  - W1: 3'16" x 1/2" LONG WINDO W SLOT, ON THE EXTERIOR, AT SILL MIDDLE
  - W2: 3'16" x 1/2" LONG NOTCH , ON THE INTERIOR, 6" FROM EACH END
CGI SHW COMPONENTS

CGI SINGLE HUNG WINDOW IS INTEGRAL PART OF THIS DOOR APPROVAL

WINDOW MEETING RAIL

WINDOW GLAZING BEAD 6AMJ

WINDOW LOCK RAIL

WINDOW FRAME HEAD

WINDOW FRAME JAMB

WINDOW HANDLE RAIL

WINDOW SASH RAIL

WINDOW FRAME SILL

WINDOW FILLER