TECNGLASS, LLC
3550 NW 49 STREET
MIAMI, FL 33142

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 "PH 3200" Aluminum Sliding Glass Door — S.M.I.

APPROVAL DOCUMENT: Drawing No. W07-101, titled "Series PH 3200 Alum. Sliding Glass Door (S.M.I.)", sheets 1 through 9 of 9, dated 11/08/07, with the latest revision “D”, dated 03/16/18, prepared by Al-Farooq Corporation, 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: Small Missile Impact Resistant.

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

REVISION 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. 09-0604.18 and 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 Sifang Zhao, P. E.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA’s

A. DRAWINGS
1. Manufacturer’s die drawings and sections.  
   (Submitted under NOA No. 08-0130.09)
2. Drawing No W07–101, titled “Series PH 3200 Alum. Sliding Glass Door (S.M.I.)”, sheets 1 through 7 of 7, dated 11/08/07, with the latest revision “A”, dated 03/05/09, prepared by Al–Farooq Corporation, signed and sealed by Humayoun Farooq, 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) Forced Entry Resistance, per FBC, TAS 202-94
   5) Small Missile Impact Test, per FBC, TAS 201-94
   6) Cyclic Wind Pressure Loading, per FBC, TAS 203-94
   along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-5286, dated 02/12/09, signed and sealed by Michael R. Wenzel, P.E.  
   (Submitted under NOA No. 09-0604.18)
2. 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) Forced Entry Resistance, per FBC, TAS 202–94
   5) Small Missile Impact Test, per FBC, TAS 201–94
   6) Cyclic Wind Pressure Loading, per FBC, TAS 203–94
   along with marked-up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL–5288, dated 07/23/07, signed and sealed by Carlos S. Rionda, P.E. 
   (Submitted under previous NOA No. 08 – 0130.09)

C. CALCULATIONS
1. Anchor verification calculations and structural analysis, complying with FBC–2007, prepared by Al–Farooq Corporation, dated 03/06/09, signed and sealed by Humayoun Farooq, P. E.
1. Glazing complies with ASTM E1300-02/04

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

E. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 09–0312.03 issued to E.I. DuPont De Nemours & Co., Inc. for their “DuPont Sentry Glass® Interlayer” dated 05/13/09, expiring on 01/14/12.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 18-0205.06
Expiration Date: September 06, 2023
Approval Date: September 06, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS
1. Statement letter of conformance, dated March 04, 2009, signed and sealed by Humayoun Farooq, P. E.
2. Statement letter of no financial interest, dated March 04, 2009, signed and sealed by Humayoun Farooq, P. E.

(Submitted under previous NOA No. 08–0130.09)

G. OTHERS
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED
   A. DRAWINGS
      1. Drawing No W07-101, titled “Series PH 3200 Alum. Sliding Glass Door (S.M.I.)”, sheets 1 through 9 of 9, dated 11/08/07, with revision “D” dated 03/16/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by Al-Farooq Corporation, dated 03/14/2018, signed and sealed by Javad Ahmad, P.E.
      2. Glazing complies with ASTM E1300-04/09

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

   E. MATERIAL CERTIFICATIONS
      1. Notice of Acceptance No. 17-0808.02 issued to Kuraray America, Inc. for their “Kuraray SentryGlas® Interlayer” expiring on 07/04/23.

   F. STATEMENTS
      1. Statement letter of conformance, complying with the FBC 6th Edition (2014), and of no financial interest, dated 12/22/17, signed and sealed by Javad Ahmad, P.E.
      2. Asset “Purchase Agreement” dated 11/19/2013, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC.
      3. “Bill of Sale” dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
      4. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. 09-0604.18, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.

   G. OTHERS
      1. Notice of Acceptance No. 09-0604.18, issued to R. C. Aluminum Industries, Inc. for their Series "PH3200" Aluminum Sliding Glass Door–S.M.I.”, approved on 08/12/09 and expiring on 09/25/13.
      2. Verification Test will be required for next product approval renewal/revision

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 18-0205.06
Expiration Date: September 06, 2023
Approval Date: September 06, 2018
SERIES PIH3200 ALUM SLIDING GLASS DOOR (S.M.I.)

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART SHOWN ON SHEET 3.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INLEAK RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

LAMINATED INSULATING GLASS SMALL MISSILE IMPACT

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

By Miami Dade Product Control
GLAZING OPTIONS

1-1/4" OVERALL INSULATED LAMINATED GLASS

1/4" TEMP. GLASS
1/4" AIR SPACE

1/4" HEAT STRENGTH GLASS
0.005" Interlayer By "Kuraray America, Inc."

MARINE GLAZING 

GLASS TYPE 'A'

1/4" TEMP. GLASS
1/4" AIR SPACE

1/4" HEAT STRENGTH GLASS
0.035" Interlayer By "Kuraray America, Inc."

MARINE GLAZING 

GLASS TYPE 'B'

SEALANTS:
ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUMINUM COLORED SEALANT.

LOCKS:
THREE PLY METALLIC HOOK LOCK WITH SURFACE MOUNT METALLIC HANDLE AT 42" FROM BOTTOM.
LOCK FASTENED WITH (2) #6 X 1/2" FH MACHINE SCREWS AND HANDLE FASTENED WITH (2) #8 X 2-1/4" OH MACHINE SCREWS.
SURFACE MOUNT METALLIC KEEPERS AT 42" FROM BOTTOM FASTENED WITH (2) #10 X 3/4" FH SMS.
### DESIGN LOAD CAPACITY - PSF (HEAD ANCHORS)

<table>
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<tr>
<th>PANEL WITH NOMINAL WIDTH</th>
<th>DOOR HEIGHT INCHES</th>
<th>1/2&quot; MAX. SHIM SPACE</th>
<th>3/8&quot; MAX. SHIM SPACE</th>
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<td>6 ANCHORS AT M.T.G.</td>
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### DESIGN LOAD CAPACITY - PSF (SILL ANCHORS (TYPE A))

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**Max. Overall Door Widths To Be Limited To Tested 192-3/4 In. Which To Be Used With Single Nom. Panel Width Per Chart Above.**

**Note:**
- Using Chart On This Sheet Select Anchor Option With Design Rating More Than Design Loads Required.
- Lower Design Pressures From Head Or Sill Anchor Charts Will Apply To Entire System.

**Glass Capacities On This Sheet Are Based On ASTM E1300-09 (3 Sec. Gusts) And Florida Building Commission Declaratory Statement DC405-DEC-219**
OX (SHOWN)
XO

OXO

OXOX

APPROVED CONFIGURATIONS

HORIZONTAL CROSS SECTION FOR ILLUSTRATION ONLY.
SEE SHEETS 5, 6 & 7 FOR INSTALLATION ANCHORS.
WEEPS:
W1 = 3/4" WEEP NOTCH AT EACH END OF EACH TRACK
W2 = 1-3/4" NOTCH AT MIDSPAN OF FIX. PANEL TRACK
W3 = 2-1/2" NOTCH AT MIDSPAN OF MOV. PANEL TRACK
1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY TECNOGLASS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A': 1/4" X 2-3/4" HILTI KWM-CON II (Fv=163 KSI, Fy=157 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'B': 1/4" X 2-3/4" HILTI KWM-CON II (Fv=163 KSI, Fy=157 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT

TYPE 'C': 1/4" DIA. TEKS OR SELF DRILLING SCREWS (Fy=92 KSI, Fy=120 KSI)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS FC = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M = 2000 PSI MIN.