NOTICE OF ACCEPTANCE (NOA)

Titan Glass & Aluminum, LLC
450 West 27 Street
Hialeah, FL 33010

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 “TSD-5000 Dry-Glazed” Aluminum Sliding Glass Door - S.M.I.

APPROVAL DOCUMENT: Drawing No. W12-62, titled “Series ‘TSD-5000’ Alum. Sliding Glass Door (S.M.I.)”, sheets 1 through 8 of 8, dated 11/28/12 with revision D dated 03/07/18, 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, 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. 14-0221.02 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

NOA No. 18-0322.03
Expiration Date: March 14, 2023
Approval Date: April 19, 2018
Page 1
Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA’s

A. DRAWINGS
   1. Manufacturer’s die drawings and sections.
      (Submitted under NOA’s No. 12-1213.03 and 14-0221.02)
      sheets 1 through 8 of 8, dated 11/28/12 with revision C dated 04/09/14, prepared by
      Al-Farooq Corporation, 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
      4) Small Missile Impact Test per FBC, TAS 201-94
      5) Large Missile Impact Test per FBC, TAS 201-94
      6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
      7) Forced Entry and Assembly Test, Type C, Grade 10, per ASTM F
         842, per FBC 2411.3.2.1 and TAS 202-94
      along with marked-up drawings and installation diagram of an aluminum sliding glass
      door 2-Track System, prepared by Fenestration Testing Laboratory, Inc., Test Report
      No. FTI-7456, dated 09/13/13, signed and sealed by Marlin D. Brinson, P.E.
   2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
      2) Uniform Static Air Pressure Test, Loading per PA 202-94
      3) Water Resistance Test, per PA 202-94
      4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
      along with marked-up drawings and installation diagram of sliding door 2-Track
      HETI-12-4072, dated 11/14/12, signed and sealed by Rafael E. Droz-Seda, P.E.
      (Submitted under NOA No. 12-1213.03)
   3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
      2) Cyclic Wind Pressure Loading per PA 203-94
      along with marked-up drawings and installation diagram of sliding door 2-Track
      HETI-12-4073, dated 11/14/12, signed and sealed by Rafael E. Droz-Seda, P.E.
      (Submitted under NOA No. 12-1213.03)

[Signature]
Manuel Perez, P.E.
Product Control Examiner
NOA No. 18-0322.03
Expiration Date: March 14, 2023
Approval Date: April 19, 2018

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C. CALCULATIONS
1. Anchor verification calculations and structural analysis, complying with FBC, prepared by Al-Farooq Corporation, dated 01/31/14, signed and sealed by Javad Ahmad, P.E.
   *(Submitted under NOA No. 14-0221.02)*

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

E. MATERIAL CERTIFICATIONS

F. STATEMENTS
1. Statement letter of no financial interest, conformance and complying with FBC 5th Edition (2014), issued by Al-Farooq Corporation, dated 04/24/14, signed and sealed by Javad Ahmad, P. E.
2. Statement letter of no financial interest, conformance and complying with FBC-2010, issued by Al-Farooq Corporation, dated 01/31/14, signed and sealed by Javad Ahmad, P.E.
3. Laboratory compliance letter for Test Report No. FTL-7456, issued by Fenestration Testing Laboratory, Inc., dated 09/13/13, signed and sealed by Marlin D. Brinson, P.E.
4. Department of State Certification of TITAN GLASS & ALUMINUM, LLC as a limited liability company, active and organized under the laws of the State of Florida, dated 06/07/13 and signed by T. Hampton, Secretary of State.

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Manuel Pérez, P.E.
Product Control Examiner
NOA No. 18-0322.03
Expiration Date: March 14, 2023
Approval Date: April 19, 2018
F. STATEMENTS (CONTINUED)
   5. Laboratory compliance letters for Test Reports No. HETI-12-4072, and
      HETI-12-4073, issued by Hurricane Engineering Testing, Inc., all dated 11/14/12,
      signed and sealed by Rafael E. Droz-Seda, P.E.
      (Submitted under NOA No. 12-1213.03)
   6. Proposal issued by the Product Control Section, dated 08/09/12, signed by Jaime D.
      Gascon, P.E.
      (Submitted under NOA No. 12–1213.03)

G. OTHERS
   1. Notice of Acceptance No. 12-1213.03, issued to Titan Glass & Aluminum, LLC for
      their Series “TSD-5000” Aluminum Sliding Glass Door - Dry-Glazed – S.M.I.,
      approved on 03/14/13 and expiring on 03/14/18.

   Manuel Perez, P.E.
   Product Control Examiner
   NOA No. 18-0322.03
   Expiration Date: March 14, 2023
   Approval Date: April 19, 2018
Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED
   A. DRAWINGS
      1. Drawing No. W12-62, titled “Series ‘TSD-5000’ Alum. Sliding Glass Door (S.M.I.)”, sheets 1 through 8 of 8, dated 11/28/12 with revision D dated 03/07/18, 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 6th Edition (2017), dated 03/05/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

   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” dated 01/18/18, expiring on 07/08/19.

   F. STATEMENTS
      1. Statement letter of conformance, complying with FBC 6th Edition (2017), and of no financial interest, dated 03/05/18, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

   G. OTHERS
      1. Notice of Acceptance No. 14-0221.02, issued to Titan Glass & Aluminum, LLC for their Series “TSD–5000” Aluminum Sliding Glass Door – Dry–Glazed – S.M.I., approved on 05/01/14 and expiring on 03/14/18.

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Manuel Perez, P.E.
Product Control Examiner
NOA No. 18-0322.03
Expiration Date: March 14, 2023
Approval Date: April 19, 2018

E – 4
### Design Load Capacity - PSF

<table>
<thead>
<tr>
<th>Panel Width</th>
<th>Height in Inches</th>
<th>EXTERIOR (NE)</th>
<th>INTERIOR (SE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>82</td>
<td>100.0</td>
<td>125.0</td>
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<tr>
<td>48</td>
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</tr>
<tr>
<td>36</td>
<td>120</td>
<td>100.0</td>
<td>125.0</td>
</tr>
</tbody>
</table>

**Average Panel Width = Door Width**

All exterior loads shown in charts above are for doors with 3-3/4" sill heights. For 3-3/8" sill height, limit exterior loads to 60.0 PSF. See Sheet 5 for details.

**Door Height and Width Size Must Comply with Egress Requirements Per FBC As Needed.**

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### Design Load Rating for Doors

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).

- 1BY or 2BY wood bucks & buck fasteners by others, must be designed and installed adequately to transfer applied product loads to the building structure.
- Anchors shall be corrosion resistant, spaced as shown on details.
- Anchors must be beyond wall dressing or stucco.
- Anchors in wood only. All shall be high impact, non-metallic and non-compressible 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.

**Series TSD-5600 Aluminum Sliding Glass Door**

**Note:**

Glass capacities on this sheet are based on ASTM E1300-09 (3 sec. gusts) and Florida Building Commission Declaratory Statement DOCS--DEC--219.

- 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 used for installations above 30 ft. of grade.

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**Laminated Glass**

**Small Missile Impact**

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**Product Revised**

- As complying with the Florida Building Code
- NOA No.: 18-0322.03
- Expiration Date: 03/14/2023

**By:**

- Miami-Dade Product Control
TYPICAL ELEVATION

DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT - 7.312" (STD. BOTTOM RAIL)
D.L.O. HEIGHT = PANEL HEIGHT - 8.185" (SH. BOTTOM RAIL)
D.L.O. WIDTH = PANEL WIDTH - 7" (TYP. PANEL)
D.L.O. WIDTH = PANEL WIDTH - 8.250" (Panel w/ Female Astragal)

PANEL HEIGHT = DOOR HEIGHT - 1.187"
TYPICAL ANCHORS: SEE ELEV. FOR SPACING

**TYPE ‘A’**
1/4" DIA. ULTRACON BY "ELCO" (f_u=177 ksi, f_y=155 ksi)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PénéTRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

**TYPE ‘B’**
1/4" DIA. ULTRACON BY "ELCO" (f_u=177 ksi, f_y=155 ksi)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

**TYPE ‘C’**
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS OR INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6093-75 MIN.)
STEEL: 1/8" THK. MIN. (fy = 36 ksi MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**ANCHOR EDGE DISTANCES**
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
WOOD AT HEAD OR JAMBS 5G = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS Fc = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS Fm = 2000 PSI MIN.
FRAME HEAD

FRAME SILL

FRAME JAMB

ALT. FRAME JAMB

GLAZING GASKET

DURAMETRIC DAS SHERE A
EXTRUDED BY "CENTRAL PLASTICS"

SCALE 1:1

Panel Top Rail

Panel Std. Bottom Rail

Panel Hl. Bottom Rail

Female Astragal Stile

Jamb/Lock Stile

Male Astragal Stile

Interlock Stile

Retention Clip

Retention Clip Cover

Jamb Anchor Cover