

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

BOARD AND CODE ADMINISTRATION DIVISION

Titan Glass & Aluminum, LLC 450 West 27th Street Hialeah, Florida 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Glazed Railing

APPROVAL DOCUMENT: Drawing No. 09-09, titled "Aluminum Glass Railing System", sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated December 23, 2009, last revision #G dated November 30, 2020 signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the 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, Hialeah, FL and the 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. The structural adequacy of the supporting structures is not part of this approval & shall be reviewed by the corresponding Building Dept.

This NOA revises & renews NOA #18-0426.05 and consists of this page 1, evidence submitted pages E-1, E-2 & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

Heg A. Mehr 02/25/2021

NOA No. 20-1208.03 Expiration Date: 11/24/2025 Approval Date: 02/25/2021

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0419.06

A. DRAWINGS

1. Drawing No. 09-09, titled "aluminum Glass Railing System", sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated December 23, 2009, last revision #B dated September 15, 2010 signed and sealed by Javad Ahmad, P.E.

B. TESTS

- 1. Test Report No. HETI-09-2578, by Hurricane Engineering & Testing, Inc., dated July 30, 2009, signed and sealed by Candido F. Font, P.E.
- 2. Test Report No. HETI-09-2558, by Hurricane Engineering & Testing, Inc., dated November 23, 2009, signed and sealed by Candido F. Font, P.E.
- 3. Test Report No. HETI-09-2564B, by Hurricane Engineering & Testing, Inc., dated July 30, 2009, signed and sealed by Candido F. Font, P.E.
- 4. Test Report No. HETI-09-2564C, by Hurricane Engineering & Testing, Inc., dated July 30, 2009, signed and sealed by Candido F. Font, P.E.
- 5. Test Report No. HETI-09-2564D, by Hurricane Engineering & Testing, Inc., dated July 30, 2009, signed and sealed by Candido F. Font, P.E.
- 6. Test Report No. 5888, by Fenestration Testing Laboratory, Inc., dated March 26, 2009, signed and sealed by Carlos S. Rionda, P.E.
- 7. Test Report No. 5814, by Fenestration Testing Laboratory, Inc., dated March 02, 2009, signed and sealed by Carlos S. Rionda, P.E.
- 8. Test Report No. HETI-09-2592A, by Hurricane Engineering & Testing, Inc., dated November 05, 2009, signed and sealed by Candido F. Font, P.E.
- 9. Test Report No. HETI-09-2592B, by Hurricane Engineering & Testing, Inc., dated November 05, 2009, signed and sealed by Candido F. Font, P.E.
- 10. Test Report No. HETI-09-2592C, by Hurricane Engineering & Testing, Inc., dated November 05, 2009, signed and sealed by Candido F. Font, P.E.
- 11. Test Report No. HETI-09-2519A, by Hurricane Engineering & Testing, Inc., dated May 23, 2009, signed and sealed by Candido F. Font, P.E.
- 12. Test Report No. HETI-09-2519B, by Hurricane Engineering & Testing, Inc., dated May 23, 2009, signed and sealed by Candido F. Font, P.E.

C. CALCULATIONS

1. Calculation titled "Aluminum and Glass Balcony Railing" in accordance with the Florida Building Code 2007 Edition High Velocity Hurricane Zone", sheets 1 through 98 of 98, dated January 21, 2010, by Al-Farooq Corporation, signed and sealed by Arshad Viqar, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor NOA No. 20-1208.03

Expiration Date: 11/24/2025 Approval Date: 02/25/2021

Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Report from Quikrete Cement & Concrete Products.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0517.22

A. DRAWINGS

1. Drawing No. 09-09, titled "Aluminum Glass Railing System", sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated December 23, 2009, last revision #C dated April 20, 2012 signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-0902.03

A. DRAWINGS

1. Drawing No. 09-09, titled "Aluminum Glass Railing System", sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated December 23, 2009, last revision #E dated November 16, 2015 signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 20-1208.03

Expiration Date: 11/24/2025 Approval Date: 02/25/2021

Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-0426.05

A. **DRAWINGS**

Drawing No. 09-09, titled "Aluminum Glass Railing System", sheets 1 through 6 of 6, prepared by Al-Faroog Corporation, dated December 23, 2009, last revision #F dated April 11, 2018 signed and sealed by Javad Ahmad, P.E.

TESTS B.

None. 1.

C. **CALCULATIONS**

Calculation titled "Aluminum Glazed Railing" in accordance with the FBC 2017 Edition High Velocity Hurricane Zone", 24 sheets, dated April 18, 2018, by Al-Faroog Corporation, signed and sealed by Javad Ahmad, P.E.

OUALITY ASSURANCE D.

By Miami-Dade County Department of Regulatory and Economic Resources.

MATERIAL CERTIFICATIONS E.

1. None.

5. NEW EVIDENCE SUBMITTED

DRAWINGS A.

Drawing No. 09-09, titled "Aluminum Glass Railing System", sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated December 23, 2009, last revision #G dated November 30, 2020 signed and sealed by Jalal Faroog, P.E.

B. **TESTS**

1. None.

C. **CALCULATIONS**

Calculation titled "Aluminum Glazed Railing" in accordance with the FBC 2020 Edition High Velocity Hurricane Zone", 1 sheet, dated 12/01/2020, by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E. on 12/04/2020.

OUALITY ASSURANCE D.

By Miami-Dade County Department of Regulatory and Economic Resources.

E. **MATERIAL CERTIFICATIONS**

None. 1.

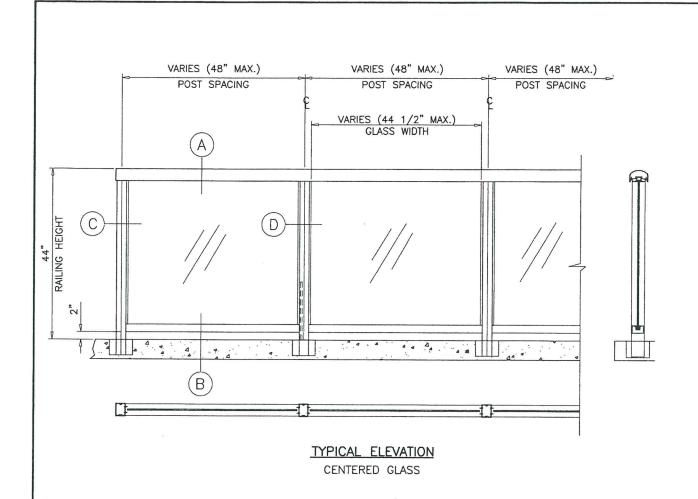
STATEMENTS F.

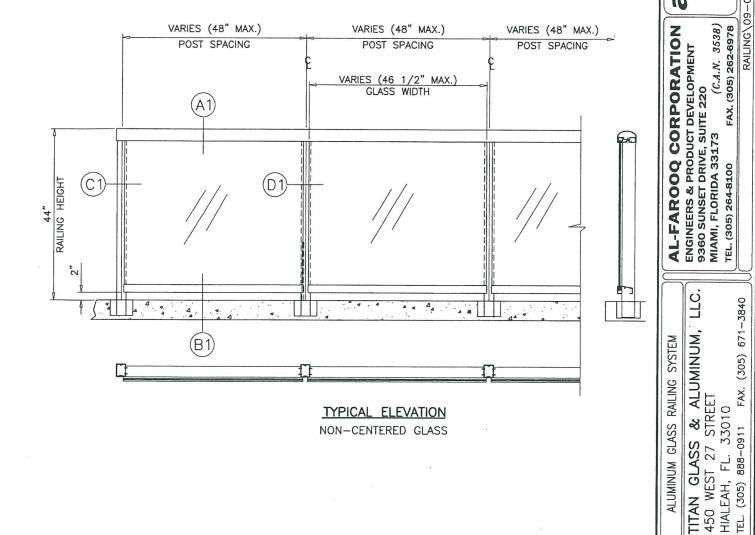
Compliance Letter with the FBC 2020 Edition, dated 12/01/2020, signed and sealed by Jalal Farooq, P.E. on 12/04/2020.

> Helmy A. Makar, P.E., M.S. **Product Control Section Supervisor**

NOA No. 20-1208.03 Expiration Date: 11/24/2025

Approval Date: 02/25/2021





ALUMINUM GLASS RAILING SYSTEM

RAILING CAN BE INSTALLED WITH LAMINATED GLASS IN CENTERED OR NON-CENTERED POCKET CONFIGURATIONS. SEE SHEET 2 FOR DESIGN LOAD CAPACITY.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

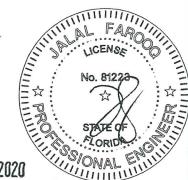
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND FLOOR DRESSING.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. 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 ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.





	1.21	C 04.20.1	D 08.18.1	E 11.16.1	F 04.11.1	6 11 30 2
William III	date: 12-23-09	scale: 1/2"=1'-0"		dr. by: TARIQ		cnk. by:
	drawing no					

LLC.

09 - 09sheet 1 of 6

DEC 0 4 2020

* POST PERFORMANCE CHART DESIGN LOAD CAPACITY-PSF (RAILING HEIGHT = 44 IN.) POST WITHOUT POST WITH SMALL CORNER SMALL CORNER LARGE CORNER POST POST W/O REINF. POST W/ REINF. SPACING REINFORCING ONE ALUM BAR POST 36" 130.0 130.0 100.0 130.0 125.0 130.0 42" 114.0 130.0 90.0 110.0 48" 105.0 130.0 0.08 120.0 100.0

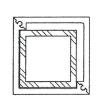


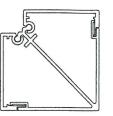
POST WITHOUT

REINFORCING





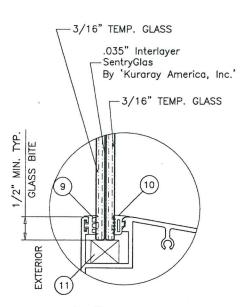




POST WITH SMALL CORNER ONE ALUM BAR POST W/O REINF.

SMALL CORNER POST WITH REINF.

LARGE CORNER POST



7/16" LAM. GLASS MAX. DESIGN LOAD RATING = +100.0 PSF -130.0 PSF

GLASS DETAIL

* POST EMBEDMENT CHART (RAILING HEIGHT = 44 IN.)								
CONCRETE	HOLE DIA.	POST EMBED	POST SPACING LOAD CAPACITY					
	5 IN.	4 IN.	36 IN.	80.0 PSF				
3000 PSI			42 IN.	70.0 PSF				
			48 IN.	60.0 PSF				
	6 IN.	4 IN.	36 IN.	100.0 PSF				
			42 IN.	80.0 PSF				
			48 IN.	75.0 PSF				
4000 PSI	5 IN.	4 IN.	36 IN.	110.0 PSF				
			42 IN.	95.0 PSF				
			48 IN.	80.0 PSF				
	6 IN.	4 IN.	36 IN.	130.0 PSF				
			42 IN.	110.0 PSF				
			48 IN.	100.0 PSF				
	5 IN.	4 IN.	36 IN.	130.0 PSF				
5000 PSI			42 IN.	115.0 PSF				
			48 IN.	100.0 PSF				
3000 PSI	6 IN.	4-1/4 IN.	36 IN.	130.0 PSF				
			42 IN.	130.0 PSF				

48 IN.

120.0 PSF

* INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

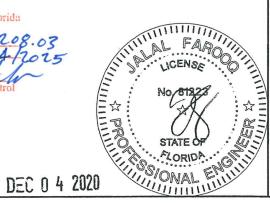
STEP 2 USE POST PERFORMANCE CHART TO VERIFY POST CAPACITY FOR THE REQUIRED DESIGN LOAD.

STEP 3 CHECK GLASS CAPACITY FOR THE REQUIRED DESIGN LOAD FROM GLASS DETAIL.

STEP 4 USE POST EMBEDMENT CHART TO CHECK POST SPACING AND REQUIRED EMBEDMENT.

STEP 5 THE LOWER VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
RAILING\09

LC.

ALUMINUM GLASS RAILING SYSTEM

TITAN GLASS & ALUMINUM, I
450 WEST 27 STREET
HIALEAH, FL. 33010
TEL. (305) 888-0911 FAX. (305) 671-3

drawing no. 09 - 09

sheet 2 of 6

