



SOUFFRONT CONSTRUCTION'S GROUP LTD. CO.

CERTIFICATE OF AUTHORIZATION No. (C A N #) 29697

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PRODUCT APPROVAL EVALUATION REPORT

RULE CHAPTER # 61G20-3

METHOD 1 OPTION D

July 23, 2024

Florida Product Approval # 41657.1

Manufacturer: Mr. Glass Doors& Windows Manufacturing LLC.
8051 NW 79th. PL
Miami, FL 33166.

Product Description: Series "MG-4000" Aluminum Pivot Door. - L.M.I. (HVHZ).

Product Category: Exterior Doors

Product Sub-Category: Swinging Exterior Door Assemblies

Quality Assurance Agency: Keystone Certifications, Inc.

Testing Laboratory: Hurricane Engineering & Testing Inc.
6120 NW 97th. Avenue
Doral, FL 33178
Tel- 305-597-5590

Statement of Compliance:

The Product listed in this evaluation report has been evaluated by the below-signed Florida Professional Engineer for compliance with the Florida Building Code 2023 8th. edition, including High Velocity Hurricane Zone (HVHZ) requirements. Based on the Florida Statutes Section 553.842 (Product evaluation and Approval) and the Florida Administrative Code 61G20-3.005 (Product Evaluation and Quality Assurance for State Approval) Method 1 (D).

I, Oscar Yamir Souffront, P.E. M ASCE certify, that the standard tests passed and the rational analysis for the product named above are following the Florida Building Code 2023 8th edition, including HVHZ, for the purpose intended, at least equivalent to that required by code.

Configurations Tested

TEST REPORT HETI-22-7181

MAXIMUM LOAD TESTED + 50 PSF, - 55 PSF						
CONFIGURATION X	MAXIMUM SIDELITE FRAME WIDTH	72	in.	MAXIMUM DLO WIDTH	59 5/16	in.
	MAXIMUM SIDELITE FRAME HEIGHT	144	in.	MAXIMUM DLO HEIGHT	131 1/16	in.
GLAZING MATERIAL	1/4" nominal (0.223") Heat Strengthened 0.090" SentryGlass Plus SGP by Kuraray America, Inc. Interlayer 1/4" nominal (0.223") Heat Strengthened 9/16" nominal (0.559") Total thickness			NOA#23-0717.30		

TEST REPORT HETI-22-7221

MAXIMUM LOAD TESTED + 70 PSF, - 70 PSF						
CONFIGURATION X	MAXIMUM SIDELITE FRAME WIDTH	60	in.	MAXIMUM DLO WIDTH	47 5/16	in.
	MAXIMUM SIDELITE FRAME HEIGHT	120	in.	MAXIMUM DLO HEIGHT	107 5/16	in.
GLAZING MATERIAL	1/4" nominal (0.223") Heat Strengthened 0.100" SAFLEX HP Interlayer 1/4" nominal (0.223") Heat Strengthened 9/16" nominal (0.545") Total thickness			NOA#23-0713.20		

TEST REPORT DATE	TEST REPORT NO.	TEST	DESCRIPTION	TEST LOCATION	SIGNED & SEALED BY
10/5/2022	HETI-22-7221	TAS 202 (ASTM E330-14) (2021)	UNIFORM STATIC AIR PRESSURE	DORAL, FL	RAM N TEWARI P.E. FL # 46767
		ASTM E283-19	AIR INFILTRATION		
		TAS 201-94 (ASTM E 1996-20)	LARGE MISSILE IMPACT		
		TAS 203-94 (ASTM E1886-19)	CYCLING LOADS		

TEST REPORT HETI-24-8131

MAXIMUM LOAD TESTED + 60 PSF, - 60 PSF			
Single Door (X)	MAXIMUM FRAME WIDTH	72	in.
	MAXIMUM FRAME HEIGHT	144	in.

PIVOT DIRECTLY ON 3/4" THICK LIMESTONE OR BETTER ON CONCRETE SUBSTRATE.

SOLID PANEL COMPOSED OF:

0.063" 3003 H14 Aluminum sheet- 3/4" Marine grade Plywood - 0.063 3003 H14 Aluminum Sheet

TEST REPORT DATE	TEST REPORT NO.	TEST	DESCRIPTION	TEST LOCATION	SIGNED & SEALED BY
5/1/2024	HETI-24-8131	ASTM E1886-19/E1996-20	Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure	Hurricane Engineering & Testing Inc. 6120 NW 97th. Avenue, Doral, FL 33166	DR. Ram N. Tewari FL P.E. # 46767
		TAS 201	Impact Test Procedures		
		TAS 202	Criteria for Testing Impact & Non-impact Resistant Building Envelope Components Using Uniform Static Air Pressure		
		TAS 203	Criteria for Testing Products Subject to Cyclic Wind Pressure		

Technical Documentation: Installation Drawings # SCG-07108-22 Rev 2 , Test Report # HETI-22-7181,HETI 22-7221 & HETI-24-8131 and Calculations

Installation: Units to be installed as per the Installation Drawings# SCG-07108-22 Rev 2.

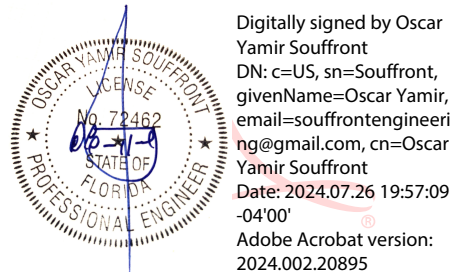
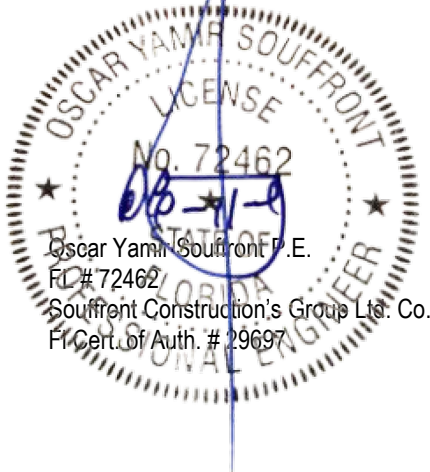
Limits of Use:

1. - This Product is Impact Resistant for HVHZ, when used in areas requiring wind borne debris protection, this product complies with the chapter 16 of the current Florida Building Code (2023) and does not require shutters or impact resistant covering in windborne debris regions.
- 2.- The maximum parameter detailed above controls the doors dimensions to be used.
- 3.- No comparative analysis; products qualified for conditions as tested.
- 4.-Refer to the Installations Drawings # SCG-07108-22 Rev 2 for:
 - Maximum Allowable loads at related configuration and maximum allowable sizes
 - Detailed sections of the Product.
 - Anchor Types, Sizes, substrates, embedment, edge distance, spacing O.C. and locations.
 - Any other limitations to the product, if any.

Engineering Analysis:

The following engineering analysis and Calculations have been performed:

- Anchorage Calculations for different substrate, based on Manufacturer's published anchor capacity and Anchors Notice of Acceptance by Miami Dade.
- Rational analysis for Glass & mullions as per ASTM E1300-12 and ADM 2015 Aluminum Design Manual, respectively.



This item has been digitally signed and sealed by Oscar Yamir Souffront P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified