



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 33057

Date: 09/20/2023

Detailed Product Description:

Manufacturer: E.S. WINDOWS, LLC

Manufacturer Address: 3550 NW 49TH STREET MIAMI, FL 33142

Model Name: ES-WW5037T ALUMINUM WINDOW WALL SYSTEM

Maximum Load: +90 PSF, -120 PSF (Large Missile Impact)

Installation Drawings # 20-56F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.

For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.

Comparative analysis used Yes X No

Mandatory Tests (Tested in accordance with AAMA 501/101/I.S.2/NAFS/TAS 202)

TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
ASTM E283	Air Infiltration Leakage	Blackwater Technical Services, Inc.	5/12/2020 3/22/2021	BT-ESW-19-008 BT-ESW-20-038	Constantin Bortes, PE Michael D Caldwell, PE
		Fenestration Testing Laboratory, Inc.	6/19/2020	FTL-12221	Idalmis Ortega, P.E
ASTM E331 or ASTM 547 & TAS 202	Water Penetration	Blackwater Technical Services, Inc.	5/12/2020	BT-ESW-19-008	Constantin Bortes, PE
		Fenestration Testing Laboratory, Inc.	6/19/2020	FTL-12221	Idalmis Ortega, P.E
ASTM E330 & TAS 202	Uniform Static Air Pressure	Blackwater Technical Services, Inc.	5/12/2020 3/22/2021	BT-ESW-19-008 BT-ESW-20-038	Constantin Bortes, PE Michael D Caldwell, PE
		Fenestration Testing Laboratory, Inc.	6/19/2020	FTL-12221	Idalmis Ortega, P.E
ASTM F588	Forced Entry	Blackwater Technical Services, Inc.	5/12/2020 3/22/2021	BT-ESW-19-008 BT-ESW-20-038	Constantin Bortes, PE Michael D Caldwell, PE

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)

TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	TEST SEALED BY
FBC 1626.2 (TAS 201 & 203) ANSI Z97.1	Large Missile Impact & Cyclic	Blackwater Technical Services, Inc.	5/12/2020 3/22/2021	BT-ESW-19-008 BT-ESW-20-038	Constantin Bortes, PE Michael D Caldwell, PE
		Fenestration Testing Laboratory, Inc.	6/19/2020	FTL-12221	Idalmis Ortega, P.E

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

Evaluation Report Engineer:

Jalal Farooq

Al-Farooq Corporation

PE # 81223

EB # 3538



Sealed: 9/20/2023