AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 22250
Date: 07/25/2023

Detailed Product Description:
Manufacturer: E.S. WINDOWS, LLC.
Manufacturer Address: 3550 N.W. 49 STREET – MIAMI, FL. 33142
Model Name: SERIES ES-EL100 ALUMINUM SINGLE HUNG WINDOW
Maximum Load: +80 PSF, -80 PSF (Large Missile Impact)
Installation Drawings # W17-39

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 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 Testing Inc. Architectural Testing Inc. Fenestration Testing Lab. QAI Laboratories	03/31/2017 04/23/2020 06/26/2023	BT-ESW-17-018 F9504.01-450-18 FTL-11027 QAI-13078	Constantin Bortes, PE Justin McDonald, PE Idalmis Ortega, PE Idalmis Ortega, PE
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Blackwater Testing Inc. Architectural Testing Inc. Fenestration Testing Lab. QAI Laboratories	03/31/2017 04/23/2020 06/26/2023	BT-ESW-17-018 F9504.01-450-18 FTL-11027 QAI-13078	Constantin Bortes, PE Justin McDonald, PE Idalmis Ortega, PE Idalmis Ortega, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Blackwater Testing Inc. Architectural Testing Inc. Fenestration Testing Lab. QAI Laboratories	03/31/2017 04/23/2020 12/18/2020 06/26/2023	BT-ESW-17-018 F9504.01-450-18 FTL-11027 FTL-12413 QAI-13078	Constantin Bortes, PE Justin McDonald, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE
ASTM F588	Forced Entry	Blackwater Testing Inc. Architectural Testing Inc. QAI Laboratories	03/31/2017 06/26/2023	BT-ESW-17-018 F9504.01-450-18 QAI-13078	Constantin Bortes, PE Justin McDonald, PE Idalmis Ortega, 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)	Large Missile Impact & Cyclic	Blackwater Testing Inc. Architectural Testing Inc. Fenestration Testing Lab. QAI Laboratories	03/31/2017 04/23/2020 12/18/2020 06/26/2023	BT-ESW-17-018 F9504.01-450-18 FTL-11027 FTL-12413 QAI-13078	Constantin Bortes, PE Justin McDonald, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE
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 PE # 81223 Al-Farooq Corporation EB # 3538			JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER Sealed: 8/15/2023		