AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 21461
Date: 10/19/2023

Detailed Product Description:
Manufacturer: E.S. WINDOWS, LLC
Manufacturer Address: 3550 NW 49 STREET. MIAMI, FL 33142
Model Name: SERIES ES-EL150-HP FIXED ALUMINUM WINDOW
Maximum Load: +100 PSF, -140 PSF (Large Missile Impact)
Installation Drawings # 23-53F

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 _X_ Yes ___ 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	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	Constantin Bortes, PE Michael D. Caldwell, PE
ASTM E331 OR ASTM E547 & TAS 202	Water Penetration	Blackwater Testing, Inc	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	Constantin Bortes, PE Michael D. Caldwell, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Blackwater Testing, Inc	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	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 Testing, Inc	11/14/2016 8/30/2023	BT-ESW-16-004 BT-ESW-23-014	Constantin Bortes, PE Michael D. Caldwell, 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: 10/20/2023