

AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 22526

Date: 07/31/2023

Detailed Product Description:

Manufacturer: E.S. WINDOWS, LLC

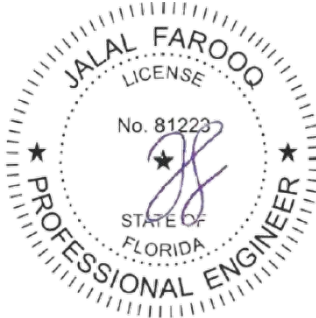
Manufacturer Address: 3550 NW 49 STREET. MIAMI, FL 33142

Model Name: SERIES ES-8860 ALUMINUM WINDOW WALL SYSTEM W/P7531 AWNING WINDOW INSERT

Maximum Load: +189 PSF, -189 PSF (Small Missile Impact)

Installation Drawings # W17-57

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 ☐ 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 Testing Inc. Fenestration Testing Laboratory QAI	05/31/2017 07/26/2017 09/02/2020 10/01/2018 01/29/2019 05/28/2019 03/04/2022	BT-ESW-17-015A BT-ESW-17-015 BT-ESW-20-030 FTL-10232 FTL-10383 FTL-10666 QAI -13014	Constantin Bortes, PE Constantin Bortes, PE Michael D Caldwell, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE
ASTM E331 or ASTM 547 & TAS 202	Water Penetration	Blackwater Testing Inc. Fenestration Testing Laboratory QAI	05/31/2017 07/26/2017 09/02/2020 10/01/2018 01/29/2019 05/28/2019 03/04/2022	BT-ESW-17-015A BT-ESW-17-015 BT-ESW-20-030 FTL-10232 FTL-10383 FTL-10666 QAI 13014	Constantin Bortes, PE Constantin Bortes, PE Michael D Caldwell, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE
ASTM E330 & TAS 202	Uniform Static Air Pressure	Blackwater Testing Inc. Fenestration Testing Laboratory QAI	05/31/2017 07/26/2017 09/02/2020 10/01/2018 01/29/2019 05/28/2019 03/04/2022	BT-ESW-17-015A BT-ESW-17-015 BT-ESW-20-030 FTL-10232 FTL-10383 FTL-10666 QAI -13014	Constantin Bortes, PE Constantin Bortes, PE Michael D Caldwell, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE Idalmis Ortega, PE
ASTM F588	Forced Entry Test	Blackwater Testing Inc.	07/26/2017 09/02/2020	BT-ESW-17-015 BT-ESW-20-030	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 1626.3 TAS 201 & 203 ASTME1886/1996 ANSI Z97.1	Small Missile Impact & Cyclic	Blackwater Testing Inc.	05/31/2017	BT-ESW-17-015A	Constantin Bortes, PE
			07/26/2017	BT-ESW-17-015	Constantin Bortes, PE
			09/02/2020	BT-ESW-20-030	Michael D Caldwell, PE
		Fenestration Testing	10/01/2018	FTL-10232	Idalmis Ortega, PE
		Laboratory	01/29/2019	FTL-10383	Idalmis Ortega, PE
		QAI	05/28/2019	FTL-10666	Idalmis Ortega, PE
			03/04/2022	QAI -13014	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					
Al-Farooq Corporation					
PE # 81223 EB # 3538			Sealed: 8/1/2023		