



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

Maximum Load: +150 PSF, -150 PSF (Large Missile Impact)

Installation Drawings # 18-01F

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. QAI	12/04/2017 05/20/2019 07/02/2019 09/02/2020 03/04/2022	BT-ESW-17-015C BT-GMP-19-003 BT-GMP-19-007 BT-ESW-20-030 QAI-13014	Constantin Bortes, PE Michael D Caldwell, PE Idalmis Ortega, PE
ASTM E331 or ASTM 547 & TAS 202	Water Penetration	Blackwater Testing Inc. QAI	12/04/2017 05/20/2019 07/02/2019 09/02/2020 03/04/2022	BT-ESW-17-015C BT-GMP-19-003 BT-GMP-19-007 BT-ESW-20-030 QAI-13014	Constantin Bortes, PE Michael D Caldwell, PE Idalmis Ortega, PE
ASTM E330 & TAS 202	Uniform Static Air Pressure	Blackwater Testing Inc. QAI	12/04/2017 05/20/2019 07/02/2019 09/02/2020 03/04/2022	BT-ESW-17-015C BT-GMP-19-003 BT-GMP-19-007 BT-ESW-20-030 QAI-13014	Constantin Bortes, PE Michael D Caldwell, PE Idalmis Ortega, PE
ASTM F588	Forced Entry Test	Blackwater Testing Inc.	12/04/2017 07/02/2019 09/02/2020	BT-ESW-17-015C BT-GMP-19-007 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 1626.2 TAS 201 & 203 ASTM E1886/1996	Large Missile Impact & Cyclic	Blackwater Testing Inc. QAI	12/04/2017 05/20/2019 07/02/2019 09/02/2020 03/04/2022	BT-ESW-17-015C BT-GMP-19-003 BT-GMP-19-007 BT-ESW-20-030 QAI-13014	Constantin Bortes, PE Michael D Caldwell, 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 Al-Farooq Corporation			 PE # 81223 EB # 3538 Sealed: 8/1/2023		