



# AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 17897

Date: 07/31/2023

**Detailed Product Description:**

**Manufacturer:** E.S. WINDOWS, LLC.

**Manufacturer Address:** 3550 N.W. 49 STREET – MIAMI, FL. 33142

**Model Name:** SERIES ES-8000T ALUMINUM WINDOW WALL SYSTEM

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

**Installation Drawings #** W15-37

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	Fenestration Testing Laboratory, Inc.	12/19/2007	FTL-5447	Michael R. Wenzel, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Idalmis Ortega, P.E. Michael D. Caldwell, P.E. Michael D. Caldwell, P.E.
			04/14/2015	FTL-7546	
			08/16/2017	FTL-9605	
			06/19/2020	FTL-12221	
			04/07/2021	FTL-12525	
		Blackwater Technical Services Inc.	03/08/2021	BT-ESW-20-046	
			05/03/2021	BT-ESW-20-036B	
			12/19/2007	FTL-5447	
			04/14/2015	FTL-7546	
			08/16/2017	FTL-9605	
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Fenestration Testing Laboratory, Inc.	06/19/2020	FTL-12221	
			04/07/2021	FTL-12525	
			03/08/2021	BT-ESW-20-046	
			05/03/2021	BT-ESW-20-036B	
			12/19/2007	FTL-5447	
		Blackwater Technical Services Inc.	04/14/2015	FTL-7546	
			08/16/2017	FTL-9605	
			06/19/2020	FTL-12221	
			04/07/2021	FTL-12525	
			12/13/2021	FTL-12879	
ASTM E330 & TAS 202	Uniform Static Air Press.	Fenestration Testing Laboratory, Inc.	03/08/2021	BT-ESW-20-046	
			05/03/2021	BT-ESW-20-036B	
			01/12/2023	BT-ESW-22-023	
			12/19/2007	FTL-5447	
			04/14/2015	FTL-7546	
		Blackwater Technical Services Inc.	08/16/2017	FTL-9605	
			06/19/2020	FTL-12221	
			04/07/2021	FTL-12525	
			12/13/2021	FTL-12879	
			03/08/2021	BT-ESW-20-046	
ASTM F588	Forced Entry	Blackwater Technical Services Inc.	05/03/2021	BT-ESW-20-036B	
			03/08/2021	BT-ESW-20-046	

**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 ASTM E1886/1996	Large Missile Impact & Cyclic	Fenestration Testing Laboratory, Inc.	12/19/2007	FTL-5447	Michael R. Wenzel, P.E.
			04/14/2015	FTL-7546	Idalmis Ortega, P.E.
			08/16/2017	FTL-9605	Idalmis Ortega, P.E.
			06/19/2020	FTL-12221	Idalmis Ortega, P.E.
			04/07/2021	FTL-12525	Idalmis Ortega, P.E.
			12/13/2021	FTL-12879	Idalmis Ortega, P.E.
		Blackwater Technical Services Inc.	03/08/2021	BT-ESW-20-046	Michael D. Caldwell, P.E.
			05/03/2021	BT-ESW-20-036B	Michael D. Caldwell, P.E.
			01/12/2023	BT-ESW-22-023	Michael D. Caldwell, 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 PE # 81223  
Al-Farooq Corporation EB # 3538



Sealed: 8/1/2023