AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 46884
Date: 07/30/2025

Detailed Product Description:
Manufacturer: E.S. WINDOWS, LLC.
Manufacturer Address: 3550 N.W. 49 STREET – MIAMI, FL. 33142
Model Name: SERIES 1100WW ALUMINUM SINGLE HUNG WINDOW
Maximum Load: +100 PSF, -150 PSF (Small Missile Impact)
Installation Drawings # 24-38F

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 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	Hurricane Engineering & Testing, Inc.	01/28/2005 03/28/2005	HETI-05-1432 HETI-05-1945	Ivonne Ghia, PE Ivonne Ghia, PE
		Fenestration Testing Lab, Inc	01/25/2008 02/13/2009 05/18/2012	FTL-5337 FTL-5815 FTL-6800	Michael Wenzel, PE Michael Wenzel, PE Marlin D Brinson, PE
		Blackwater Technical Services Inc.	06/26/2024	BT-ESW-23-049	Michael Caldwell, PE
		IFET, Inc.	06/12/2025	TR-IFET-23-0036.1	Arshad Viqar, PE
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing, Inc.	01/28/2005 03/28/2005	HETI-05-1432 HETI-05-1945	Ivonne Ghia, PE Ivonne Ghia, PE
		Fenestration Testing Lab, Inc	01/25/2008 02/13/2009 05/18/2012	FTL-5337 FTL-5815 FTL-6800	Michael Wenzel, PE Michael Wenzel, PE Marlin D Brinson, PE
		Blackwater Technical Services Inc.	06/26/2024	BT-ESW-23-049	Michael Caldwell, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Hurricane Engineering & Testing, Inc.	01/28/2005 03/28/2005	HETI-05-1432 HETI-05-1945	Ivonne Ghia, PE Ivonne Ghia, PE
		Fenestration Testing Lab, Inc	01/25/2008 02/13/2009 05/18/2012	FTL-5337 FTL-5815 FTL-6800	Michael Wenzel, PE Michael Wenzel, PE Marlin D Brinson, PE
		Blackwater Technical Services Inc.	06/26/2024	BT-ESW-23-049	Michael Caldwell, PE
		IFET, Inc.	06/12/2025	TR-IFET-23-0036.1	Arshad Viqar, PE
ASTM F588	Forced Entry	Fenestration Testing Lab, Inc.	05/18/2012	FTL-6800	Marlin D Brinson, PE
		Blackwater Technical Services Inc.	06/26/2024	BT-ESW-23-049	Michael 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 ASTM E1886/1996 ANSI Z97.1	Small Missile Impact & Cyclic	Hurricane Engineering & Testing, Inc.	01/28/2005 03/28/2005	HETI-05-1432 HETI-05-1945	Ivonne Ghia, PE Ivonne Ghia, PE
		Fenestration Testing Lab, Inc	01/25/2008 02/13/2009 05/18/2012	FTL-5337 FTL-5815 FTL-6800	Michael Wenzel, PE Michael Wenzel, PE Marlin D Brinson, PE
		Blackwater Technical Services Inc.	06/26/2024 09/23/2024	BT-ESW-23-049 BT-ESW-23-034	Michael Caldwell, PE Michael Caldwell, PE
		IFET, Inc.	06/12/2025	TR-IFET-23-0036.1	Arshad Viqar, 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: 8/4/2025		