



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 22244

Date: 07/27/2023

Detailed Product Description:

Manufacturer: E.S. WINDOWS, LLC

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

Model Name: SERIES 7100-FIN ALUMINUM WINDOW WALL SYSTEM

Maximum Load: +107 PSF, -107 PSF (Small Missile Impact)

Installation Drawings # 21-69F

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 Technical Services, Inc. Fenestration Testing Lab, Inc Blackwater Technical Services, Inc.	12/08/2016 11/16/2016 12/02/2016 01/29/2015 07/15/2013 06/05/2020 09/13/2021	F6336.02-450-18 F6336.01-450-18 BT-ESW-16-006 FTL-8101 FTL-7155 BT-ESW-20-012 BT-ESW-21-003	Justin McDonald, PE Justin McDonald, PE Constantin Bortes, PE Idalmis Ortega, PE Jorge Naya, PE Constantin Bortes, PE Michael D. Caldwell, PE
ASTM E331 or ASTM 547 & TAS 202	Water Penetration	Blackwater Technical Services, Inc. Fenestration Testing Lab, Inc Blackwater Technical Services, Inc.	12/08/2016 11/16/2016 12/02/2016 01/29/2015 07/15/2013 06/05/2020 09/13/2021	F6336.02-450-18 F6336.01-450-18 BT-ESW-16-006 FTL-8101 FTL-7155 BT-ESW-20-012 BT-ESW-21-003	Justin McDonald, PE Justin McDonald, PE Constantin Bortes, PE Idalmis Ortega, PE Jorge Naya, PE Constantin Bortes, PE Michael D. Caldwell, PE
ASTM E330 & TAS 202	Uniform Static Air Pressure	Blackwater Technical Services, Inc. Fenestration Testing Lab, Inc Blackwater Technical Services, Inc.	12/08/2016 11/16/2016 12/02/2016 01/29/2015 07/15/2013 06/05/2020 09/13/2021	F6336.02-450-18 F6336.01-450-18 BT-ESW-16-006 FTL-8101 FTL-7155 BT-ESW-20-012 BT-ESW-21-003	Justin McDonald, PE Justin McDonald, PE Constantin Bortes, PE Idalmis Ortega, PE Jorge Naya, PE Constantin Bortes, PE Michael D. Caldwell, PE
ASTM F588	Forced Entry	Blackwater Technical Services, Inc.	06/05/2020 09/13/2021	BT-ESW-20-012 BT-ESW-21-003	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 ANSI Z97.1 ASTM E1886/1996	Small Missile Impact & Cyclic	Blackwater Technical Services, Inc. Fenestration Testing Lab, Inc Blackwater Technical Services, Inc.	12/08/2016 11/16/2016 12/02/2016 01/29/2015 07/15/2013 06/05/2020 09/13/2021	F6336.02-450-18 F6336.01-450-18 BT-ESW-16-006 FTL-8101 FTL-7155 BT-ESW-20-012 BT-ESW-21-003	Justin McDonald, PE Justin McDonald, PE Constantin Bortes, PE Idalmis Ortega, PE Jorge Naya, PE 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 Al-Farooq Corporation			 Sealed: 7/28/2023		