

AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

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

FL 34706

Date: 07/26/2023

Detailed Product Description:

Manufacturer: MARVIN WINDOWS & DOORS

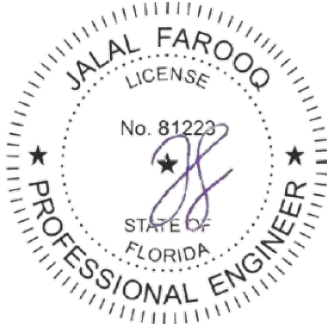
Manufacturer Address: PO Box 100, 401 State Ave N, Warroad, MN 56763

Model Name: Coastline Direct Glaze Casement IZ4

Maximum Load: +80.0 PSF, -80.0 PSF (Large Missile Impact)

Installation Drawings # 20-73F

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 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.	1/3/2020	BT-SIW-19-002	Constantin Bortes, PE
		American Test Lab of South Florida	5/12/2011	ATLSF-1201.01-10	Julio Gonzalez, PE
		Hurricane Engineering & Testing	10/6/2009 10/6/2009 10/6/2009	HETI-09-2625 HETI-09-2629 HETI-09-2630	Candido F. Font, PE
ASTM E331 OR ASTM E547 & TAS 202	Water Penetration	Blackwater Testing Inc.	1/3/2020	BT-SIW-19-002	Constantin Bortes, PE
		American Test Lab of South Florida	5/12/2011	ATLSF-1201.01-10	Julio Gonzalez, PE
		Hurricane Engineering & Testing	10/6/2009 10/6/2009 10/6/2009	HETI-09-2625 HETI-09-2629 HETI-09-2630	Candido F. Font, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Blackwater Testing Inc.	1/3/2020	BT-SIW-19-002	Constantin Bortes, PE
		American Test Lab of South Florida	5/12/2011	ATLSF-1201.01-10	Julio Gonzalez, PE
		Hurricane Engineering & Testing	10/6/2009 10/6/2009 10/6/2009	HETI-09-2625 HETI-09-2629 HETI-09-2630	Candido F. Font, PE
ASTM F588	Forced Entry Test	Hurricane Engineering & Testing	10/6/2009 10/6/2009	HETI-09-2629 HETI-09-2630	Candido F. Font, 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 E1886/1996-03	Large Missile Impact & Cyclic	Blackwater Testing Inc.	1/3/2020	BT-SIW-19-002	Constantin Bortes, PE
		American Test Lab of South Florida	5/12/2011	ATLSF-1201.01-10	Julio Gonzalez, PE
		Hurricane Engineering & Testing	10/6/2009	HETI-09-2626A	Candido F. Font, PE
			10/6/2009	HETI-09-2626B	
			10/6/2009	HETI-09-2626C	
			10/6/2009	HETI-09-2627	
			10/6/2009	HETI-09-2633	
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: 7/26/2023		
PE # 81223 EB # 3538					