JAVAD AHMAD PE, inc
CONSULTING | STRUCTURAL DESIGN | FACADES | BUILDING ENVELOPE | SYSTEM DESIGN | PRODUCT APPROVALS

PRODUCT EVALUATION REPORT

- Florida Building Code - 8th Edition (2023) -
Per Rule 61G20-3 / Method 1 (d)

FL #: **19164.2** **DATE:** 04/15/2024

Product Description

Manufacturer: HARTMAN WINDOWS & DOORS, LLC
Address: 2107 W Blue Heron Blvd., West Palm Beach, FL 33404
Model Name: **European Series Outswing Casement Window (L.M.I. & S.M.I.)**
Maximum Load: +80 PSF / -80 PSF (Large & Small Missile Impact)
Drawing No.: JA-1425-23, dated: 04-15-24, signed and sealed by Javad Ahmad, P.E. - FL License No. 70592

This product COMPLIES with the 2023 Florida Building Code - 8th Edition (2023 FBC) for use within and outside the High-Velocity Hurricane Zone (HVHZ) per TAS 201/202/203.

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 #**	**TEST SEALED BY**
TAS 202-94	Uniform Static Test	Fenestration Testing Laboratory	FTL-5292 FTL-5291 FTL-15-5733	Idalmis Ortega, P.E.
TAS 202-94	Uniform Static Test	Fenestration Testing Laboratory	FTL-5561 FTL-5573 FTL-5563 FTL-5531 FTL-5530 FTL-5294	Carlos S. Rionda, P.E.
TAS 202-94	Uniform Static Test	Fenestration Testing Laboratory	FTL-4943 FTL-5191 FTL-4941	Michael Wenzel, P.E.
TAS 202-94	Uniform Static Test	Fenestration Testing Laboratory	FTL-4969 FTL-4944	Edmundo Largaespada, P.E.
TAS 202-94	Uniform Static Test	Fenestration Testing Laboratory	FTL-6415	Jorge A. Naya, Jr., P.E.
TAS 202-94	Uniform Static Test	Hurricane Test Laboratory, LLC	HTL-0137-1028-02 HTL-0137-0114-04 HTL-0137-0714-05 HTL-0137-0215-05 HTL-0137-0328-05	Vinu Abraham, P.E.

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Supplemental Tests (Tested in accordance with TAS 201 and TAS 203)				
TEST	**DESCRIPTION**	**TEST LOCATION**	**TEST REPORT #**	**TEST SEALED BY**
TAS 201 & TAS 203	Large Missile Impact Resistance & Cyclic Loading Performance	Fenestration Testing Laboratory	FTL-5292 FTL-5291 FTL-15-5733	Idalmis Ortega, P.E.
TAS 201 & TAS 203	Large Missile Impact Resistance & Cyclic Loading Performance	Fenestration Testing Laboratory	FTL-5561 FTL-5573 FTL-5563 FTL-5531 FTL-5530 FTL-5294	Carlos S. Rionda, P.E.
TAS 201 & TAS 203	Large Missile Impact Resistance & Cyclic Loading Performance	Fenestration Testing Laboratory	FTL-4943 FTL-5191 FTL-4941	Michael Wenzel, P.E.
TAS 201 & TAS 203	Large Missile Impact Resistance & Cyclic Loading Performance	Fenestration Testing Laboratory	FTL-4969 FTL-4944	Edmundo Largaespada, P.E.
TAS 201 & TAS 203	Large Missile Impact Resistance & Cyclic Loading Performance	Fenestration Testing Laboratory	FTL-6415	Jorge A. Naya, Jr., P.E.
TAS 201 & TAS 203	Large Missile Impact Resistance & Cyclic Loading Performance	Hurricane Test Laboratory, LLC	HTL-0137-1028-02 HTL-0137-0114-04 HTL-0137-0714-05 HTL-0137-0215-05 HTL-0137-0328-05	Vinu Abraham, 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 - 8th Edition (2023 FBC).

Evaluation Report Engineer:

JAVAD AHMAD LICENSE No 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

Javad Ahmad, PE
FL P.E.# 70592
EB C.A.N. # 34254
JAVAD AHMAD PE, Inc

Sealed: 04/15/2024