

Product Evaluation Report

of

JELD-WEN, inc.
Custom Wood Casement Window
(WZ3) (Impact)

for

Florida Product Approval

Report No. 8311

Current Florida Building Code

Method:	1 – D (Engineering Evaluation)
Category:	Windows
Sub – Category:	Casement
Product:	Custom Wood Casement Window
Material:	Wood
Product Dimensions:	36" x 72"

Prepared for:

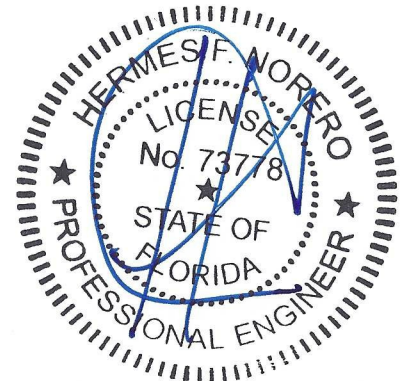
JELD-WEN, inc.
3737 Lakeport Blvd.
Klamath Falls, OR. 97601

Prepared by:

Hermes F. Norero, P.E.
Florida Professional Engineer # 73778
Date: 02/03/2023

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398 E DANIA BEACH BLVD. SUITE 338, DANIA BEACH, FL 33004

Manufacturer: JELD-WEN, inc.

Product Category: Windows

Product Sub-Category: Casement

Compliance Method: State Product Approval Method (1)(d)

Product Name: Custom Wood Casement Window
(WZ3) (Impact)

Scope: This is a Product Evaluation Report issued by Hermes F. Norero, P.E. (FL # 73778) for **JELD-WEN inc.** based on Method 1d of the State of Florida Product Approval, Department of Business and Professional Regulation - Florida Building Commission.

Hermes F. Norero, P.E. does not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the current Florida Building Code.

See Installation Instructions **JW027**, signed and sealed by Hermes F. Norero, P.E. (FL # 73778) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the current Florida Building Code, **excluding** the “High Velocity Hurricane Zone” (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the current Florida Building Code and **does not** require an impact resistant covering in Wind Zones 3 or less.
4. When used in areas requiring wind borne debris protection this product complies with Chapter 16 of the current Florida Building Code and **does** require an impact resistant covering in Wind Zone 4.
5. Site conditions that deviate from the details of drawing **JW027** require further engineering analysis by a licensed engineer or registered architect.
6. See Installation Instructions **JW027** for size and design pressure limitations.

398 E DANIA BEACH BLVD. SUITE 338, DANIA BEACH, FL 33004

Quality Assurance: The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Window and Door Manufacturers Association** (FBC Organization #QUA2515)

Performance Standards: The product described herein has been evaluated per:

- AAMA/WDMA/CSA 101/I.S.2/A440-08
- TAS 201-94
- TAS 202-94
- TAS 203-94
- ASTM E1886-13
- ASTM E1996-14

This document shall serve to state that the product(s) listed herein successfully tested to TAS 201/203 test methods, also meet testing requirements set forth by ASTM E 1996-14 (Wind Zone 3 requirements).

Per the specifications given in the ASTM E 1996-14 standard, there will be an impact performed on the fenestration assembly infill type once as described on section 5.3.1. After verification of testing for this specific product, it has been determined that the Wind Zone 3 impact requirements of ASTM E1996-14 were met. All other methods, criteria, and aspects of the testing requirements between TAS 201/203 and ASTM E 1996-14 are to be considered equivalent.

Therefore, the product(s) listed herein as having been successfully tested to the TAS 201/203 test methods also meet the scope and testing requirements set forth by ASTM E 1996-14 up to Wind Zone 3.

Referenced Data:

1. Product Testing performed by **National Certified Testing Laboratories** (FBC Organization # TST9341)
Report #: SJW2013-187 Report Date: 11/05/13
SJW2011-027-TAS 08/22/11
SJW2010-064 07/07/2010
Signed & Sealed: Kevin P. Tyra, Florida PE No: 72805
NCTL-210-3438-1 06/30/07
Signed & Sealed: Gerard J. Ferrara, Florida PE No: 11985
NCTL-110-10770-1 07/12/07
Signed & Sealed: Harold Rupp, Florida PE No: 15935

2. Quality Assurance
Window and Door Manufacturers Association
(FBC Organization #QUA2515)

Installation Method: Please refer to Installation instructions, (**JW027**), for anchor methods, selection, spacing, edge distances, embedment's and further details of installation.

Design Pressure: Please refer to Installation instructions, (**JW027**), for sizes, configurations and design pressures.

Equivalence of Test Standards:

Various test standards have been evaluated for differences in test methodology, if any, between tested editions of the test standards listed below and those editions referenced in the current Florida Building Code. JELD-WEN, inc. has tested their products to the following test standard edition(s):

- 1) AAMA/WDMA/CSA 101/I.S.2/A440-05
- 2) ASTM E1886-05
- 3) ASTM E1996-05

Chapter 35 of the current Florida Building Code references the following editions of the above mentioned test standards:

- 1) AAMA/WDMA/CSA 101/I.S.2/A440-08
- 2) ASTM E1886-13
- 3) ASTM E1996-14

After review of the above mentioned referenced standards and editions, it has been found that no significant technical changes have been made to the test standards that would affect the results. All referenced standards have been found to be equivalent.