



Equivalency Evaluation Report

Date: October 18, 2023

PTC Report #: 1382

Revision No.: 4

PTC Project #: 423-0203

Product Mfg.: Loewen Windows
77 Highway 52 West, Box 2260
Steinbach, Manitoba R5G 1B2, Canada

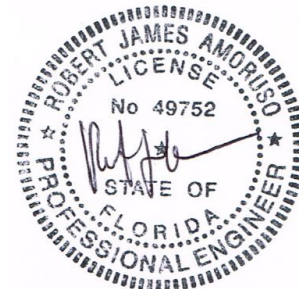
Product Name: Aluminum Clad StormForce Sliding Patio Doors - LMI

Product Category: Exterior Doors

Product Sub-Category: Sliding Exterior Door Assemblies

Compliance Method: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards
Evaluation Report by a Licensed Professional Engineer

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by Robert J
Amoruso
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Evaluated by:
Robert J. Amoruso, P.E.
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Scope

Evaluate equivalency of testing standards used for the performance testing of Loewen Windows Aluminum Clad StormForce Sliding Patio Doors - LMI for conformance to the 8TH Edition (2023) Florida Building Code – Building and Residential Volumes including the High Velocity Hurricane Zone (HVHZ).

Description of Product

See PTC Product Evaluation Report No. 1382 (Reference 3.a) for a full description of the product including testing standards used and results of testing.

Performance and Testing Standards

Reference 2.a conducted testing to the following standard(s)

1. TAS 201-94 - *Impact Test Procedures*
2. TAS 202-94 - *Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure*
3. TAS 203-94 - *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading*

References and Supporting Documents

- 1) Drawings
 - a. Drawing No. LOEW0002, Revision D, dated 10/18/23, signed and sealed by Robert J. Amoruso, P.E., Loewen Windows, *Aluminum Clad StormForce Sliding Patio Doors Installation Anchorage Details*.
- 2) Testing
 - a. Testing conducted to TAS201-94, TAS202-94 and TAS203-94 and documented in Test Report No. ATI 89339.03-201-44, signed, and sealed by Joseph A. Reed, FL PE No. 58920 on 3/23/09, by Architectural Testing Inc., 849 Western Ave. North, St. Paul, MN 55117.
- 3) Reports
 - a. PTC Report No. 1382, Rev. 4, *Loewen Windows, Impact Aluminum Clad Sliding Glass Door, Product Evaluation Report*, dated 4/16/15, signed and sealed by Robert J. Amoruso.
- 4) Florida Building Code – Test Protocols
 - a. Current Edition of the FBC
 - i. TAS 201-94
 - ii. TAS 202-94
 - iii. TAS 203-94

Equivalency Evaluation

Reference 2.a tested uniform static air pressure in accordance with TAS-202-94, Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure.

Reference 2.a tested impact performance in accordance with TAS-201-94, Impact Test Procedures.

Reference 2.a tested post-impact cyclic wind pressure loading performance in accordance with TAS-203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.

The revisions to the above test standards as part of the 8th Edition (2023) FBC revision have been reviewed and found not to affect the method of testing, acceptance criteria, or reporting criteria in such a manner as to result in any change in the performance of the aforementioned product. As such, test results obtained as a result of testing to these standards are valid for demonstrating compliance to the Current Edition of the FBC.