

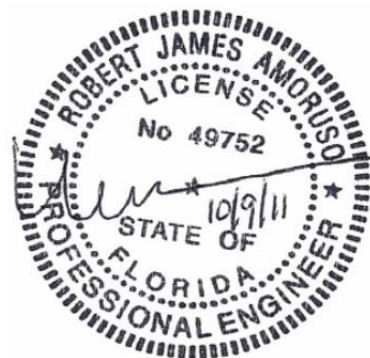


Certificate of Conformance to the 2010 Florida Building Code

Date:	October 9, 2011
Report #:	1930
Report Revision No.:	Original Issue
Project #:	411-0904
Product Mfg.:	Loewen Windows 77 Highway 52 West, Box 2260 Steinbach, Manitoba R5G 1B2
Product Description:	Impact Aluminum Clad Picture Window
Product Category:	Windows
Product Sub-Category:	Fixed
Compliance Method:	Product Approval Rule 9N-3.005(1)(a) – Certification Method and Product Approval Rule 9N-3.007(1)(e) – Self-Affirmation
Prepared By:	Robert J. Amoruso, P.E. Florida P.E. No. 49752 PTC Product Design Group, LLC, PO Box 520775, Longwood, FL 32752-0775 Florida Cert. of Auth. No. 25935

CERTIFICATED OF INDEPENDENCE

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by the aforementioned Product Evaluation Report. PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by the aforementioned Product Evaluation Report.



Robert J. Amoruso, P.E.
Florida P.E. License Number 49752



SCOPE

PTC Product Design Group, LLC was contracted by Loewen Windows to review the 2007 Florida Building Code Product Approval of the aforementioned product for conformance to the 2010 Florida Building Code and provide a Certificate of Conformance (this document) for self-affirmation in accordance with Product Approval Rule 9N-3.007(1)(e) – Self-Affirmation.

DESCRIPTION OF PRODUCT – INSTALLATION REQUIREMENTS

See Reference 1 for a description of the product, its installation and other pertinent data related to its approved use including limits and conditions of use.

2010 FLORIDA BUILDING CODE CONFORMANCE

The following aspects of the 2007 FBC approval of the aforementioned product have been reviewed and found to demonstrate compliance to the 2010 FBC.

THEREFORE, THE LOEWEN IMPACT ALUMINUM CLAD PICTURE WINDOW SHOWN ON ANCHOR INSTALLATION DRAWING NO. LOEW0001, ORIGINAL ISSUE, DATED 04/23/09 IS IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE.

Testing (Reference 2) conducted 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

The revisions to the above test standards as part of the 2010 FBC revision have been review and found not to affect the method of testing, acceptance criteria, or reporting criteria in such as manner as to result in any change in the performance of the aforementioned product. As such, test results obtain from testing to these standards are valid for demonstrating compliance to the 2010 FBC.

Anchorage Engineering (Reference 3)

Anchorage engineering conducted in accordance with the following sections of the 2007 FBC where reviewed for conformance to the 2010 FBC and found to be acceptable.

- a. R613.3 Exterior windows, sliding and patio glass doors
- b. R613.6 Anchorage methods
- c. 1714.5.2 Exterior windows, sliding and patio glass doors
- d. 1714.5.4 Anchorage methods



Installation Drawing (Reference 1)

The installation drawing prepared using the results of the anchorage engineering (Reference 3) and conducted in accordance with the following sections of the 2007 FBC where reviewed for conformance to the 2010 FBC and found to be acceptable.

- a. R613.3 Exterior windows, sliding and patio glass doors
- b. R613.6 Anchorage methods
- c. 1714.5.2 Exterior windows, sliding and patio glass doors
- d. 1714.5.4 Anchorage methods

QUALITY ASSURANCE

This product is manufactured under a quality assurance program audited by an approved Certification Entity and Quality Assurance Entity Window and Door Manufacturers Association (WDMA). See FBC Organization No. CER1508 and QUA2515 respectively for approval under Rule 9N-3.

REFERENCES & SUPPORTING DOCUMENTS

1. Drawings
 - a. Drawing No. LOEW0001, Original Issue, Dated 04/23/09, signed and sealed by Robert J. Amoruso, P.E., Loewen Windows, *Impact Aluminum Clad Picture Window Installation Anchorage Details*.
2. Test Reports
 - a. Testing conducted to TAS201-94, TAS202-94 and TAS203-94 and documented in Test Report No. ATI 89340.03-201-44 by Architectural Testing Inc., 849 Western Ave. North, St. Paul, MN 55117.
3. Calculations
 - a. PTC Report No. 1354, Original Issue, Dated 4/15/09, Loewen Windows, *Impact Aluminum Clad Picture Window, Anchorage Engineering*, signed and sealed by Robert J. Amoruso.
4. 2010 Florida Building Code
 - a. R613.3 Exterior windows, sliding and patio glass doors
 - b. R613.6 Anchorage methods
 - c. 1714.5.2 Exterior windows, sliding and patio glass doors
 - d. 1714.5.4 Anchorage methods