

# **W. W. Schaefer Engineering & Consulting, P.A.**

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## **ENGINEER'S EVALUATION REPORT #WWS-193**

### **Prepared for:**

C.P. Loewen Enterprises  
77 Hwy 52 West  
Steinbach, MB Canada R5G 1B2  
Phone: (204) 326-6446

### **Prepared by:**

Warren W. Schaefer, P.E.  
Florida Professional Engineer #44135

**Manufacturer:** C.P. Loewen Enterprises

**Product Category:** Windows

**Evaluation Method:** 1-D (Engineer's evaluation)

**Product model & name:** Series 25 Aluminum Clad Impact Single Hung Window

### **Documents that must accompany this report:**

1. W. W. Schaefer Engineering & Consulting drawing No. 1752

### **Window size restrictions and assembly requirements:**

See drawing NO. 1752

### **Maximum allowable design pressure:**

See drawing NO. 1752

### **Installation requirements:**

See drawing No. 1752

### **Code compliance:**

Code section(s) considered with this evaluation:  
FBC Chapters 17 & 24

#### Mullions:

Mullion conditions stated in this approval have been tested in accordance with the test standards listed in this report and meet the requirements of FBC.

#### Wood Coatings:

All wood members shall be of an approved durable species or be treated in an approved method with an approved preservative per applicable codes and standards.

#### Glass:

All glass meets the current ASTM E1300 standard.

Test Standards applicable to the testing of these windows:

TAS-201, 202 & 203  
ASTM E1886  
ASTM E1996  
AAMA/WDMA/CSA 101/I.S.2/A440  
AAMA 450

Test Laboratory: Architectural Testing, Inc.

Test report number: A6344.01-201 & G3662.01-201-18

Note: All HVHZ test reports have been signed & sealed by a Florida PE.

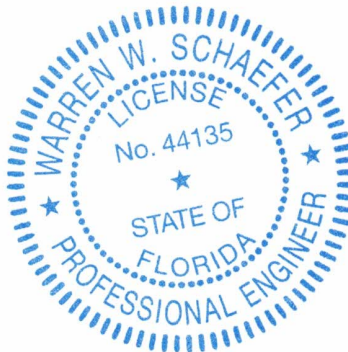
**General report notes & system limitations:**

1. All size & installation conditions shown in this report and the referenced drawing No. 1752 are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. Windows shall be constructed in accordance with the descriptions in this report, and the manufacturer's state approved quality assurance entity specifications.
3. This product is approved for use in & outside of the High Velocity Hurricane Zones (HVHZ).
4. Job required design wind pressure shall be calculated in accordance with the Florida Building Code Chapter 16 and ASCE 7 Minimum Design Loads for Buildings and Other Structures (0.85 directionality factor may apply per the current ASCE 7 standard).
5. These windows are both small & large missile impact rated for use in wind zone 4 & missile level "D" locations and need not be shuttered.

**Quality Assurance Entity:** National Accreditation & Management Institute (NAMI)

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Warren W. Schaefer, P.E.  
Florida P.E. #44135



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by Warren W  
Schaefer  
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